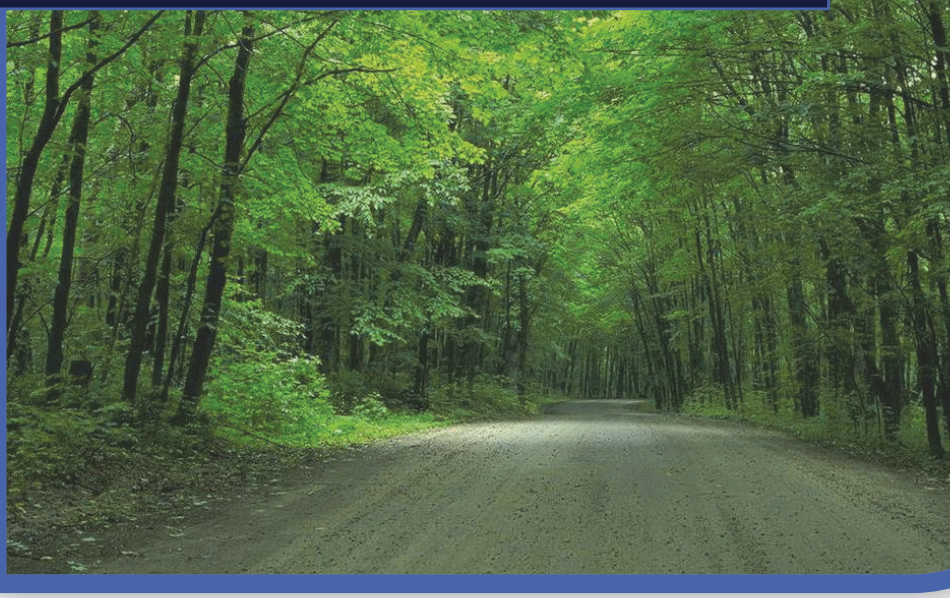
VERINA Engineering, P.C.

2015 REMEDIAL ACTION PROGRESS REPORT

FORMER BINGHAMTON PLASTICS FACILITY
BINGHAMTON, NEW YORK
NYSDEC SITE NO. 7-04-024



Verina Engineering, P.C.
1011 U.S. Highway 22, Suite 302
Bridgewater, New Jersey 08807

January 2016

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INTRODUCTION

This Remedial Action Progress Report (RAPR) was prepared by Verina Engineering, P.C. (VERINA), on behalf of Dover Corporation (Dover), for the remedial activities implemented in 2015 at the former Binghamton Plastics site in Binghamton, Broome County, New York, New York State Department of Conservation (NYSDEC)Site No.: 7-04-024.

The activities implemented in 2015 include:

- Quarterly in-situ chemical oxidation (ISCO) injections;
- Semi-annual groundwater monitoring; and
- Monthly monitoring of the Active Sub-Slab Depressurization (ASD) System.

The project was implemented in accordance with the executed Order on Consent between Dover and the New York State of Environmental Conservation (NYSDEC), dated January 19, 2001, and subsequent approvals from the NYSDEC.

SITE HISTORY AND BACKGROUND

The former Binghamton Plastics site is located at 498 Conklin Avenue in Binghamton, Broome County, New York. The site occupies approximately two acres and consists of a one-story industrial building (approximately 44,800 square feet [ft^2]) with associated parking, landscaping, and storage areas. The site is located in a combined industrial and residential setting. Figure 1 shows the site location. A site map is presented on Figure 2.

Binghamton Plastics operated the facility until the early 1980s when Universal Instruments Corporation (UIC), a former subsidiary of Dover, purchased the property and converted the facility into a circuit board manufacturing plant. UIC operated the facility until it was taken over by Dover Electronics Corporation in the late 1980s. Manufacturing activities ceased in the early 1990s. In 1993 Dover Electronics was separated from Dover and re-named Dovatron, Inc. In 1996, Dovatron changed its name to DII Group.

In the early 1990s, the property was transferred to Flextronics International, Inc. but UIC retained responsibilities for the remediation of pre-existing environmental conditions. From the early 1990s until August 2001, the facility was leased to and used by McIntosh Laboratories for electronics repair operations. The site was then sold to TeamWorld, Inc., and the building is now used for silk screening, embroidery, packaging of clothing, and storage.

REMEDIAL ACTIVITIES

Remedial actions were implemented following the approval of the Remedial Design (RD) Package (BBL 2002) by the NYSDEC on June 29, 2002. The remedial action consisted of excavating the main source areas of constituents of concern (COCs) within the perched groundwater zone. Excavation and groundwater extraction activities were conducted to remove residual contamination in the form of

phase-separated hydrocarbons (PSH), adsorbed volatile organic compounds (VOCs), and impacted groundwater. Groundwater that drained from the excavated perched-zone soil during the remedial action or that accumulated in the open excavations was removed for offsite treatment and disposal.

Since 2004, the groundwater monitoring program has been implemented to assess the effectiveness of the remedial action in mitigating COC concentrations within the perched groundwater at the site. The groundwater monitoring program consists of a baseline groundwater monitoring event that was conducted on April 1, 2002 prior to remedial activities and subsequent post-remedial quarterly groundwater monitoring events. The groundwater monitoring frequency was reduced from a quarterly to a semi-annual basis in 2011 based on the NYSDEC approval on December 23, 2010.

Pursuant to approval from NYSDEC in its letter dated November 14, 2008, the ISCO injection program was initiated in June 2009 to further reduce the residual COCs in groundwater. The injection of sodium permanganate solution has been conducted in the upgradient monitoring wells (MW-9, MW-10, and MW-17) as well as in the source area (MW-8, MW-11, and MW-16). Since June 2009, a total of 24 rounds of sodium permanganate manual injections have been conducted at the site. The injection frequency was reduced from quarterly to semi-annual basis in 2011, yet returned to a quarterly injection schedule in 2012. Additionally, one direct-push injection event within the plume area was conducted at the site in May 2013.

In accordance with the 2012 Remedial Design Work Plan - Active Sub-slab Depressurization (ASD) System (VERINA 2012), an ASD system was installed at the site in July 2012 to mitigate the indoor air quality at the site. Monthly inspections of the ASD system were implemented since its full-time operation in July 2012.

GROUNDWATER MONITORING AND ISCO INJECTION PROGRAM

GROUNDWATER MONITORING AND SAMPLING

Two rounds of semi-annual groundwater monitoring events were conducted in 2015 to monitor site groundwater conditions and to assess the effectiveness of the ISCO to remediate COCs at the site. The first semi-annual groundwater sampling event was conducted on March 18 and March 19, 2015 and the second semi-annual/annual groundwater sampling event was conducted on September 23, 2015.

Prior to sampling in March 2015, the depth to groundwater was measured from all 14 monitoring wells (DMW-3, DMW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-16, MW-17, and TMP-A) on site and recorded on VERINA's groundwater gauging logs in order to establish groundwater elevations and groundwater flow direction at the site. The groundwater was also gauged prior to the September 2015 groundwater sampling event, however, a review of the data revealed inconsistency with historical measurements. Therefore, VERINA personnel re-gauged all 14 monitoring wells in October 2015 and these measurements were consistent with historic data. The groundwater gauging logs from March and October 2015 are presented in Appendix A. Water level measurements were taken with a Solinst® laser-marked water level meter equipped with a stainless steel probe and measuring tape graduated in units of 0.01 foot. Groundwater elevation measurements for March 2015 and October 2015 are summarized in Tables 1 and 2, respectively. A map showing the groundwater elevation isocontours and groundwater flow direction is included as Figure 3 for the March 2015 event and as Figure 4 for the October 2015 event.

After well gauging was completed, select monitoring wells including MW-8, MW-9, MW-10, MW-11, MW-16, and MW-17 were sampled in March 2015. In addition to these wells sampled in March 2015, monitoring wells DMW-3, TMP-A, MW-13, and MW-14 were added during the September 2015 sampling event in accordance with VERINA'S 2014 Remedial Action Progress Report. Groundwater quality parameters, including pH, dissolved oxygen (DO), conductivity, temperature, turbidity, and oxidation-reduction potential (ORP), were measured via a YSI® 600XL or 556 water quality instrument coupled with a flow-through cell. In addition to measuring field parameters, the water from each well was visually inspected for the presence of a purple/pink color, which would indicate the presence of un-reacted permanganate. A change in color of the water in the wells from dark purple to light pink (i.e., > visual concentration of 0.5 milligrams per liter [mg/L]) or clear (i.e., < visual concentration of 0.5 mg/L) indicates that the permanganate would have been consumed, diluted, or transported with groundwater. The field procedures implemented during each groundwater monitoring event follow the previously approved Field Sampling and Analysis Plan (FSAP) and its two parts: the Field Sampling Plan and Quality Assurance Project Plan (QAPP) that were included in the Remedial Investigation/Feasibility Study Work Plan (Shield Environmental 1998) and the RD Package (BBL 2002) for the site.

Groundwater samples from monitoring wells that exhibited residual permanganate were collected in laboratory-provided unpreserved vials pre-charged in the field with approximately 1 to 3 milliliters (ml) of a 20 percent, by weight, sodium thiosulfate solution. The sodium thiosulfate solution was added to neutralize the residual permanganate in the water as it may influence the performance of the

laboratory's analytical instruments. During the March 2015 sampling event, monitoring wells MW-8, MW-9, MW-16, and MW-17 exhibited residual permanganate; monitoring wells MW-8, MW-9, MW-10, MW-11, MW-16, and MW-17 exhibited residual permanganate during the September 2015 sampling event. The purge water from each of these wells had a visible purple/pink color and therefore had its residual sodium permanganate concentration analyzed for in the field immediately subsequent to site-specific parameter list (SSPL) VOC sampling using a Hach® DR890 or DR2800 colorimeter. A summary of the residual sodium permanganate groundwater concentrations is presented in Table 3.

As part of the QA/QC procedures, one duplicate sample, one trip blank, and one field blank sample per sampling date were also collected during each sampling event. One matrix spike and one matrix spike duplicate sample were also collected during the March 2015 sampling event but were not collected during the September 2015 sampling event. All samples were collected in laboratory-supplied glassware, packaged on ice, and shipped to ALS Environmental (formerly Columbia Analytical Services, Inc.), of Rochester, New York (New York Laboratory Certification 10145) for analysis. All samples were analyzed for SSPL VOCs using United States Environmental Protection Agency (USEPA) Method 8260B following Contract Laboratory Protocol Statement of Work, document OLM04.2, as modified by the NYSDEC ASP dated June 2000. The SSPL VOCs analyzed for were: tetrachloroethylene (PCE); trichloroethylene (TCE); 1,1,1-trichloroethane (TCA); 1,1-dichloroethane (1,1-DCA); 1,1-dichloroethene (1,1-DCE); cis-1,2-dichloroethene (cis-1,2-DCE); trans-1,2-dichloroethene (trans-1,2-DCE); and vinyl chloride (VC).

ISCO INJECTION PROGRAM

As approved by the NYSDEC, sodium permanganate is injected manually at six monitoring wells including MW-8, MW-9, MW-10, MW-11, MW-16, and MW-17 on a quarterly basis to further reduce the dissolved COC mass present in the groundwater. The ISCO injection program was initiated in June 2009. For 2015, manual injections occurred in the months of March, June, August, and December.

The manual injections were performed at the above mentioned wells, via gravity feed, to deliver a 10 percent by weight sodium permanganate solution during each of the 2015 injection events. A total of 60 gallons were injected during each injection event. The ISCO injection occurring in March was conducted following that month's respective groundwater monitoring activities. A manual injection summary is presented in Table 4.

GROUNDWATER ELEVATION AND FLOW DIRECTION

The groundwater elevation data from March and October 2015 are summarized in Tables 1 and 2, respectively. The groundwater elevation contour map for the March and October 2015 events are provided as Figure 3 and Figure 4, respectively. The groundwater gauging logs are enclosed as Appendix A.

The groundwater contour maps indicate that the hydraulic gradient is low across the site and the groundwater flow within the perched groundwater zone is to the northwest, consistent with historical groundwater flow data. Although the groundwater flow is to the northwest, the low hydraulic gradient

as well as the fact that the groundwater plume has not migrated from the site supports the perched groundwater site model.

GROUNDWATER MONITORING ANALYTICAL RESULTS

The groundwater analytical data for the March and September 2015 monitoring events are summarized in Tables 5 and 6, respectively. The historical distribution of SSPL VOCs, including pre-full scale ISCO injection initiation sampling results, is summarized in Table 7. An isoconcentration map showing the total molar concentration of PCE and its daughter products as of September 2015 is presented as Figure 5. The groundwater sampling field logs are provided in Appendix B. The complete laboratory data packages for the groundwater sampling events are presented in Appendix C. The electronic data deliverables (EDDs) for each groundwater sampling events will be included under a separate submission.

Based on the information collected during injection and from two rounds of semi-annual groundwater monitoring, VERINA made the following conclusions:

- In comparing the September 2015 to the June 2009 total molar concentration of PCE and its daughter products, the plume size of the highest molar concentration observed within the source zone near MW-8 and MW-16 has decreased significantly. This indicates an overall COC mass reduction (as represented by both PCE and daughter products) within the perched groundwater beneath the site. Approximately 95% mass reduction of COCs in groundwater was estimated since the ISCO injection was implemented in 2009.

- The plume of PCE and its daughter products continue to be contained within the perched groundwater on site.

- 1,1-dichloroethane was detected at the concentrations above NYSDEC groundwater quality standards in wells MW-16 and MW-17. A review of historic groundwater sampling data revealed that 1,1-dichloroethane remains stable at this localized area during the six years of ISCO treatment using permanganate solution.

- TCE was detected at the concentration above NYSDEC groundwater quality standard only in well MW-10 during the most recent groundwater sampling event in September 2015.

ACTIVE SUB-SLAB DEPRESSURIZATION (ASD) OM&M

In accordance with the approved 2012 Remedial Design Work Plan – Active Sub-Slab Depressurization System (VERINA 2012), an ASD system was installed at the site. This system, shown on Figure 6, was installed in July 2012 serve as a mitigation measure for elevated COC concentrations (specifically PCE and TCE) detected in the indoor air at the facility. Since installation and start-up, the ASD system has been operated continuously without disruption. Two rounds of indoor air sampling were conducted on December 19, 2012 and December 10, 2013.

The ASD system has been effective at reducing the indoor air concentrations of COCs when comparing the December 2012 and December 2013 indoor air sampling results to the indoor air sampling results collected in March 2009 prior to the installation of the ASD system. Since no site specific COC concentrations in the indoor air samples exceeded the NYSDOH's Indoor Air Guidance Values during the 2013 indoor air sampling event, VERINA proposed that no additional indoor air sampling events being conducted unless changes or modifications to the ASD system and/or to the building are identified during the monthly ASD system inspections in the January 2014 Periodic Review Report (PRP). NYSDEC approved the PRP on August 1, 2014.

Since no changes or modifications were made to the ASD system in 2015, no indoor air samples were collected from the onsite building in 2015. Monthly inspections of the ASD system were implemented including observing and documenting the conditions of ASD system components and any structural changes or modifications to the buildings, as well as recording the pressure gauge measurements at each of the four vapor extraction points. Monthly ASD inspection logs are included as Appendix D.

CONCLUSIONS AND RECOMMENDATIONS

Based on the findings and conclusions of the groundwater monitoring program, field observation of the ISCO injection events, and ASD System OM&M results, VERINA has drawn the following conclusions:

- Based on the analytical results of the historic and current groundwater sampling events, COCs have not been detected in monitoring wells DMW-3, TMP-A, MW-11, MW-13, and MW-14 during several of the recent sampling events. This data supports the conclusion that the COC plume is contained at the site.

- A comparison of the 2015 groundwater sampling results to that of the historical sampling results indicates that the total VOC mass (as measured in molar concentration of PCE and its daughter products) in the groundwater at the site has decreased significantly. A total of approximately 95% reduction of COCs in groundwater was estimated since the remedial action was implemented in June 2009.

- The ASD system has operated continuously since its installation in July 2012. The ASD system has effectively mitigated the indoor air COCs at the site.

Based on these observations, we recommend the following:

- VERINA will continue the same semi-annual sampling program in 2016 as the sampling program of 2015. Wells MW-8, MW-9, MW-10, MW-16, and MW-17will be included in the semi-annual sampling program in both March and September 2016. In addition to these wells, monitoring wells DMW-3, TMP-A, MW-11, and MW-13 will be included in the annual sampling program in September 2016.

- VERINA will continue the current quarterly oxidant injection schedule utilizing a 10% by weight sodium permanganate solution to continue the oxidation of COCs in groundwater. It is estimated a total of 60 gallons of 10% by weight sodium permanganate oxidant solution will be manually injected into selected monitoring wells on site during each of the injection events.Depending on sampling results in 2016, the current ISCO injection program will be reviewed and the need to continue the ISCO injection will be evaluated.

- VERINA will continue monthly inspections of the ASD system. No additional indoor air sampling will be conducted unless changes or modifications to the ASD system and/or to the building are identified during the monthly ASD system inspections.

REFERENCES

Blasland, Bouck, & Lee, Inc. (BBL). June 2002. *Remedial Design Package: Universal Instruments Corporation, Binghamton, New York.*

Shield Environmental. 1998. *Remedial Investigation/Feasibility Study Work Plan.*

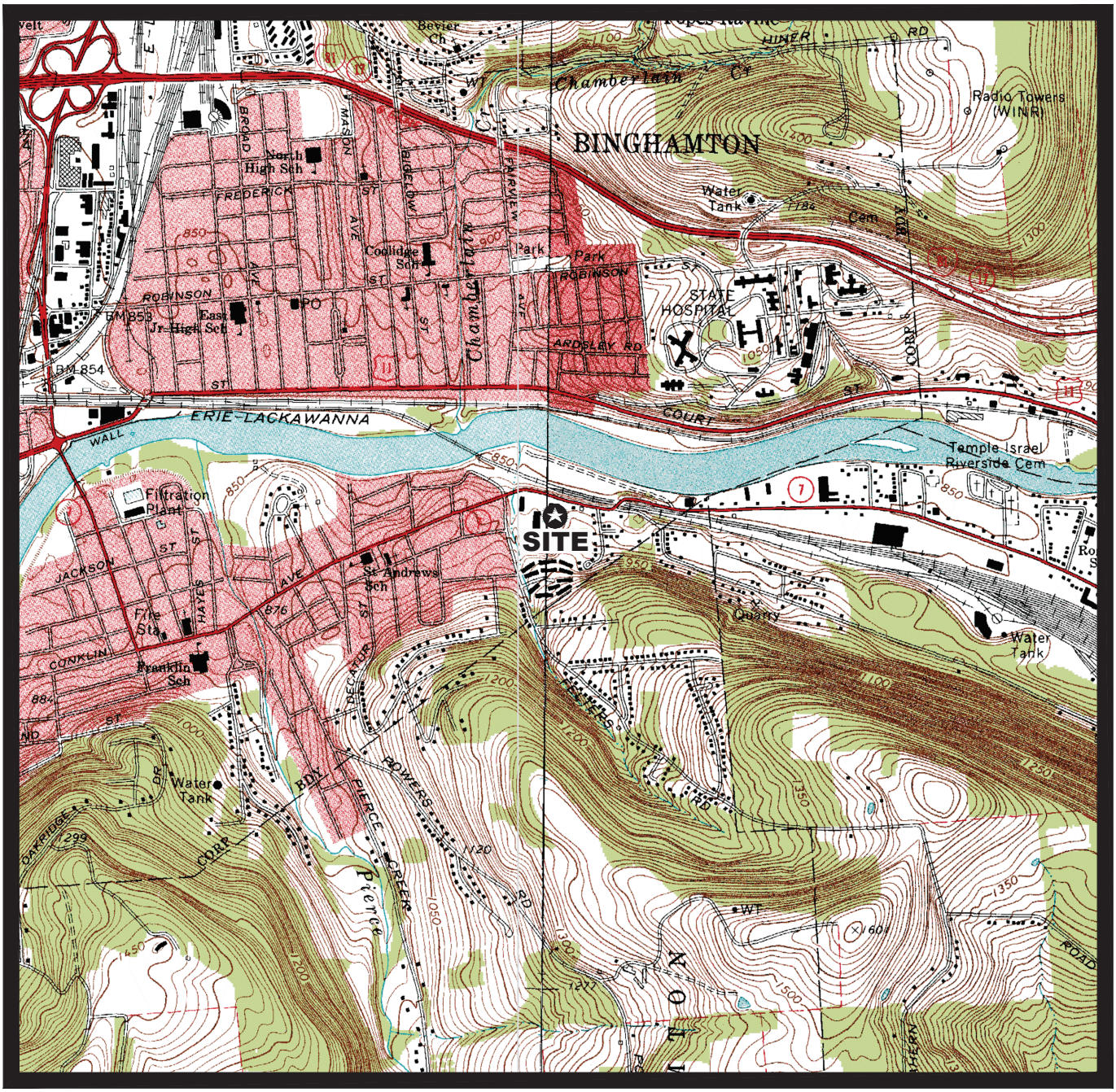
Verina Engineering, P.C. (VERINA). May 2012. *Remedial Design Work Plan – Active Sub-slab Depressurization System.*

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Figures



WEST BINGHAMTON AND
EAST BINGHAMTON QUADRANGLES
7.5–MINUTE SERIES

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APPROXIMATE SCALE

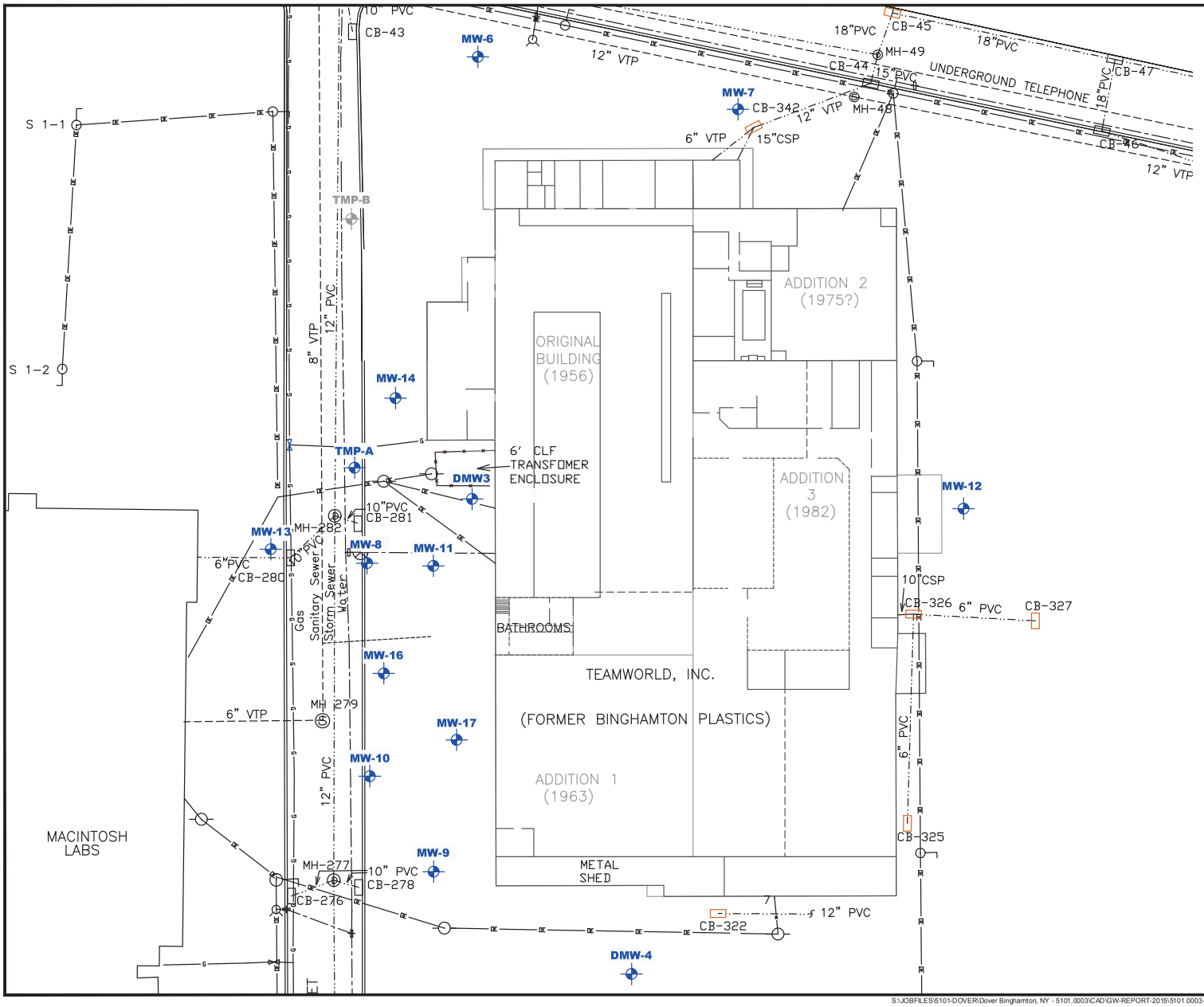
FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

REGIONAL LOCATION MAP

VERINA Engineering, P.C.

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EXPLANATION

- MW-6 — DESIGNATION AND LOCATION OF MONITORING WELL
- TMP-B — DESIGNATION AND LOCATION OF DESTROYED MONITORING WELL
- UTILITY POLE
- UTILITY POLE W/LIGHT
- STORM MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
- POST INDICATOR VALVE
- HYDRANT
- WATER VALVE
- GAS VALVE
- FORMER WALL

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *PRE-DESIGN INVESTIGATION REPORT FOR THE ACTIVE SLAP DEPRESSURIZATION SYSTEM* PREPARED BY ARCADIS OF CRANBURY, NEW JERSEY, JUNE 26, 2009

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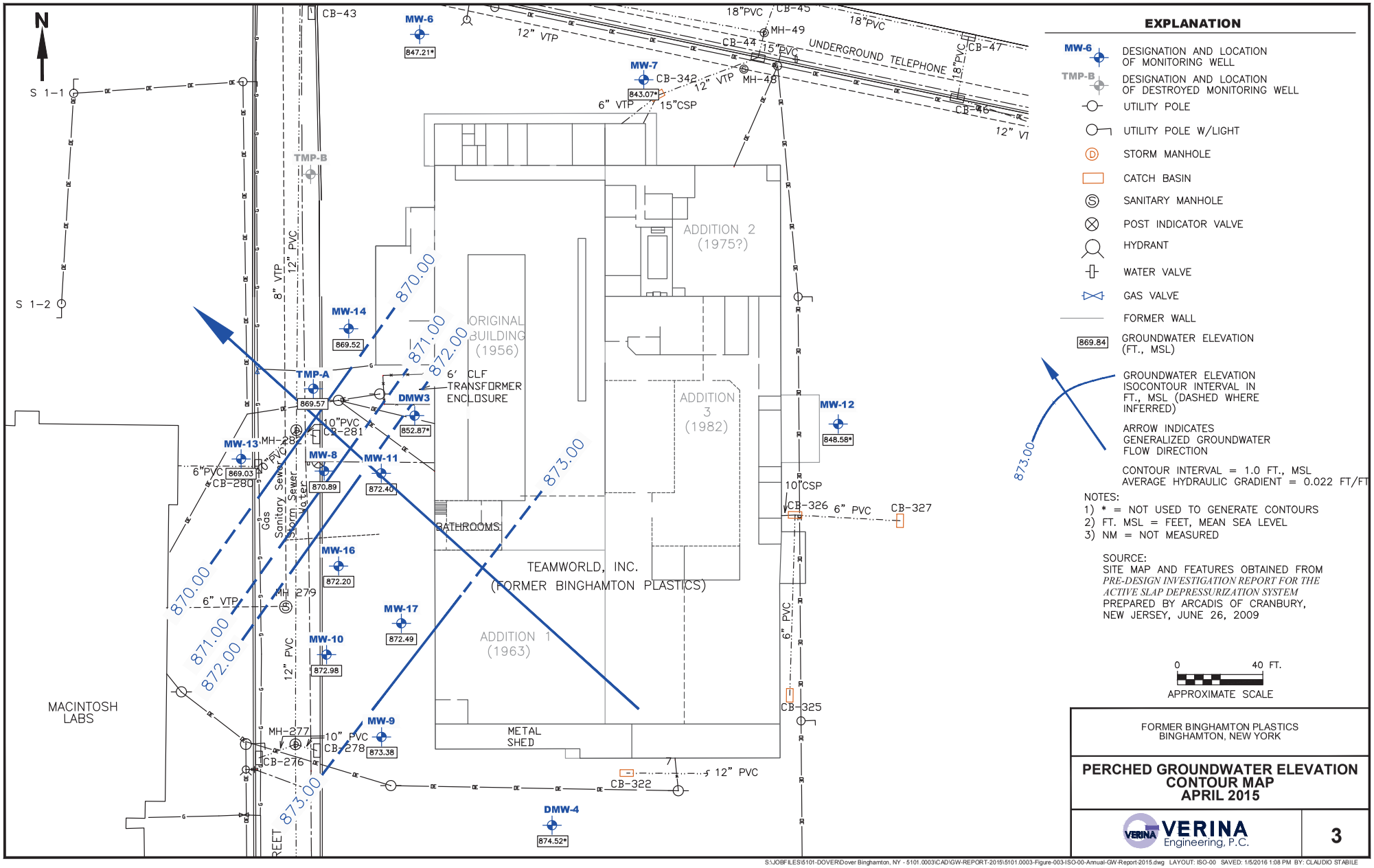
FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

SITE MAP WITH MONITORING WELL LOCATIONS

VERINA Engineering, P.C.

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EXPLANATION

- MW-6 — DESIGNATION AND LOCATION OF MONITORING WELL
- TMP-B — DESIGNATION AND LOCATION OF DESTROYED MONITORING WELL
- UTILITY POLE
- UTILITY POLE W/LIGHT
- STORM MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
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- HYDRANT
- WATER VALVE
- GAS VALVE
- FORMER WALL
- 869.84 — GROUNDWATER ELEVATION (FT., MSL)
- GROUNDWATER ELEVATION ISOCONTOUR INTERVAL IN FT., MSL (DASHED WHERE INFERRED)
- ARROW INDICATES GENERALIZED GROUNDWATER FLOW DIRECTION

CONTOUR INTERVAL = 1.0 FT., MSL
AVERAGE HYDRAULIC GRADIENT = 0.022 FT/FT

NOTES:
1) * = NOT USED TO GENERATE CONTOURS
2) FT. MSL = FEET, MEAN SEA LEVEL
3) NM = NOT MEASURED

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *PRE-DESIGN INVESTIGATION REPORT FOR THE ACTIVE SLAP DEPRESSURIZATION SYSTEM* PREPARED BY ARCADIS OF CRANBURY, NEW JERSEY, JUNE 26, 2009

0 40 FT.
APPROXIMATE SCALE

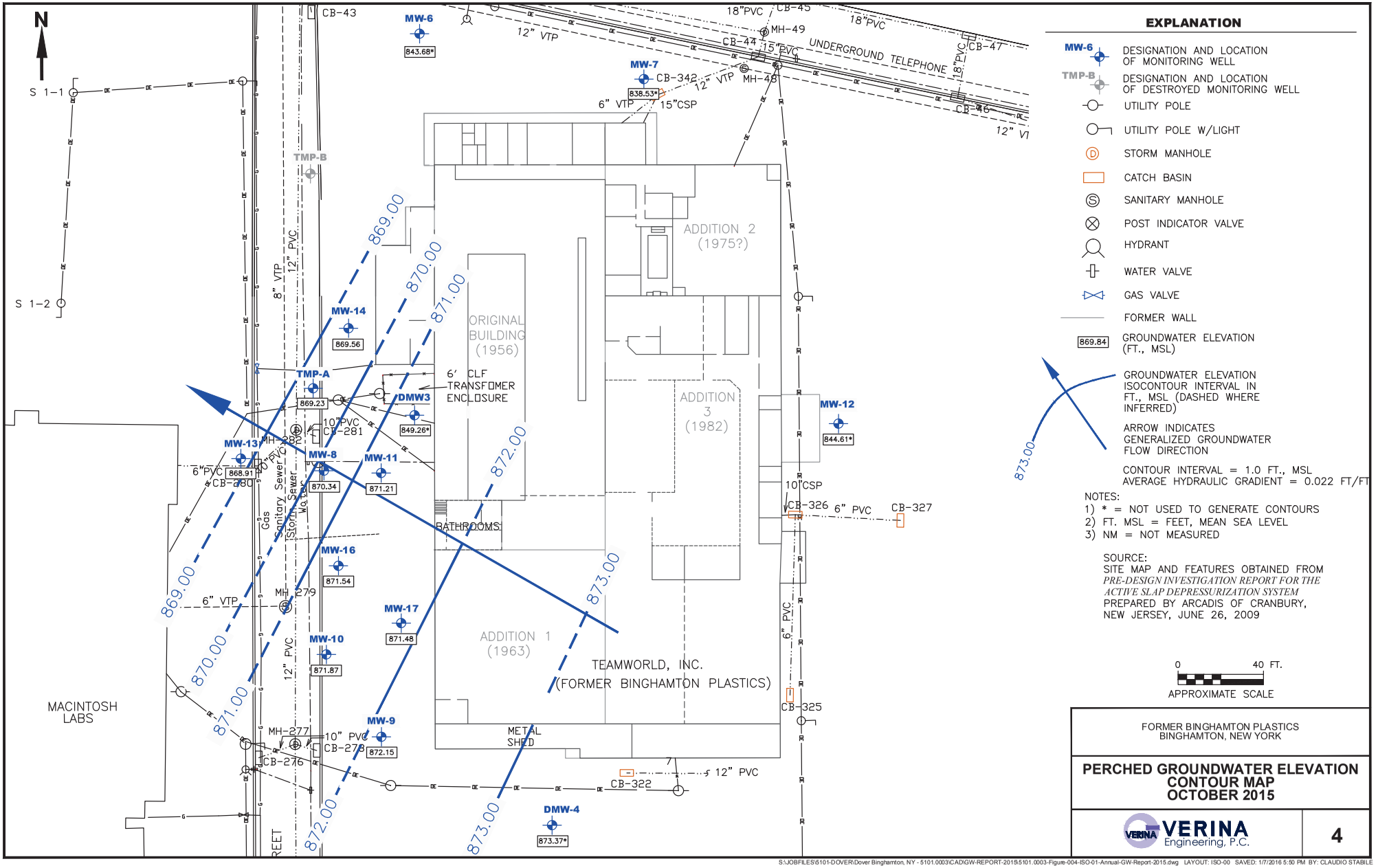
FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

PERCHED GROUNDWATER ELEVATION CONTOUR MAP APRIL 2015

VERINA Engineering, P.C.

3

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EXPLANATION

- MW-6 — DESIGNATION AND LOCATION OF MONITORING WELL
- TMP-B — DESIGNATION AND LOCATION OF DESTROYED MONITORING WELL
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0 40 FT.
APPROXIMATE SCALE

FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

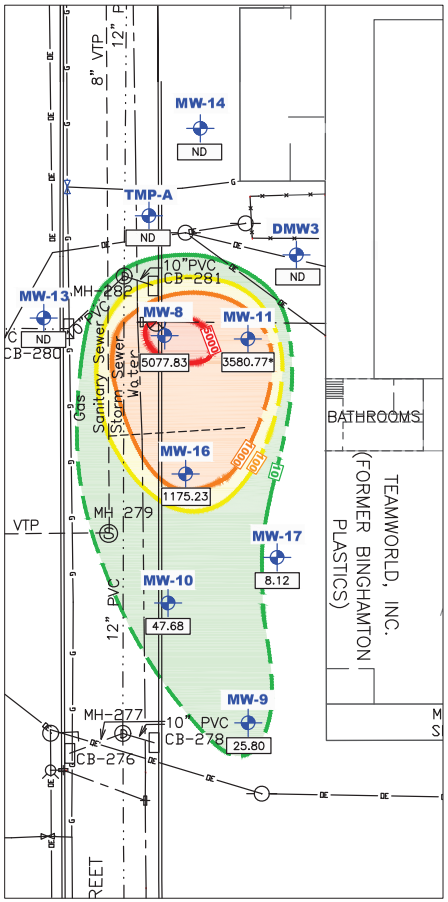
PERCHED GROUNDWATER ELEVATION CONTOUR MAP OCTOBER 2015

VERINA Engineering, P.C.

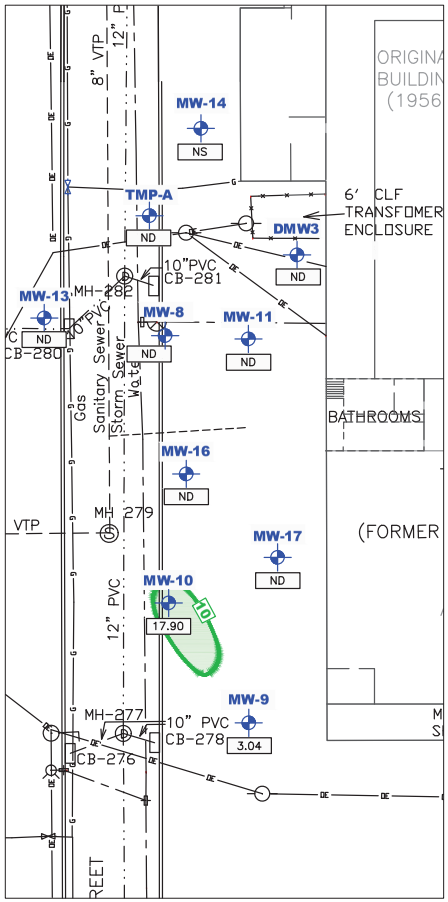
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JUNE 2009



SEPTEMBER 2015



N

EXPLANATION

- MW-6 — DESIGNATION AND APPROXIMATE LOCATION OF MONITORING WELL
- UTILITY POLE
- UTILITY POLE W/LIGHT
- STORM MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
- POST INDICATOR VALVE
- HYDRANT
- WATER VALVE
- GAS VALVE
- FORMER WALL

NOTES:
1) DAUGTER COMPOUNDS INCLUDE TCE, 1,2–DCE AND VC
2) TCE = TRICHLOROETHENE
3) 1,2–DCE = 1,2–DICHLOROETHENE (CIS AND TRANS ISOMERS)
4) VC = VINYL CHLORIDE
5) ND = NOT DETECTED
6) NS = NOT SAMPLED
7) * = RESULT SHOWN IS FROM MARCH 2009 SINCE MW–11 WAS NOT SAMPLED IN JUNE 2009
8) JUNE 2009 DATA REPRESENTS BASELINE GROUNDWATER CONDITIONS
7) UNITS = (mol x 10^8)/L
8) IF REPORTING LIMIT WAS GREATER THAN 5 µg/L AND RESULT CONCENTRATION WAS NON–DETECT, ½ OF THE REPORTING LIMIT WAS USED AS RESULT CONCENTRATION IN MOLAR CALCULATIONS. IF THE REPORTING LIMIT WAS LESS THAN OR EQUAL TO 5 µg/L AND RESULT CONCENTRATION WAS NON–DETECT 0 WAS USED AS RESULT CONCENTRATION IN MOLAR CALCULATION.
9) GWQS = NYSDEC's GROUNDWATER QUALITY STANDARDS

- MOLAR CONCENTRATION > 10 (mol x 10^8)/L
- MOLAR CONCENTRATION > 100 (mol x 10^8)/L
- MOLAR CONCENTRATION > 1000 (mol x 10^8)/L
- MOLAR CONCENTRATION > 5000 (mol x 10^8)/L

0 40 FT.

APPROXIMATE SCALE

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *PRE-DESIGN INVESTIGATION REPORT FOR THE ACTIVE SLAP DEPRESSURIZATION SYSTEM* PREPARED BY ARCADIS OF CRANBURY, NEW JERSEY, JUNE 26, 2009

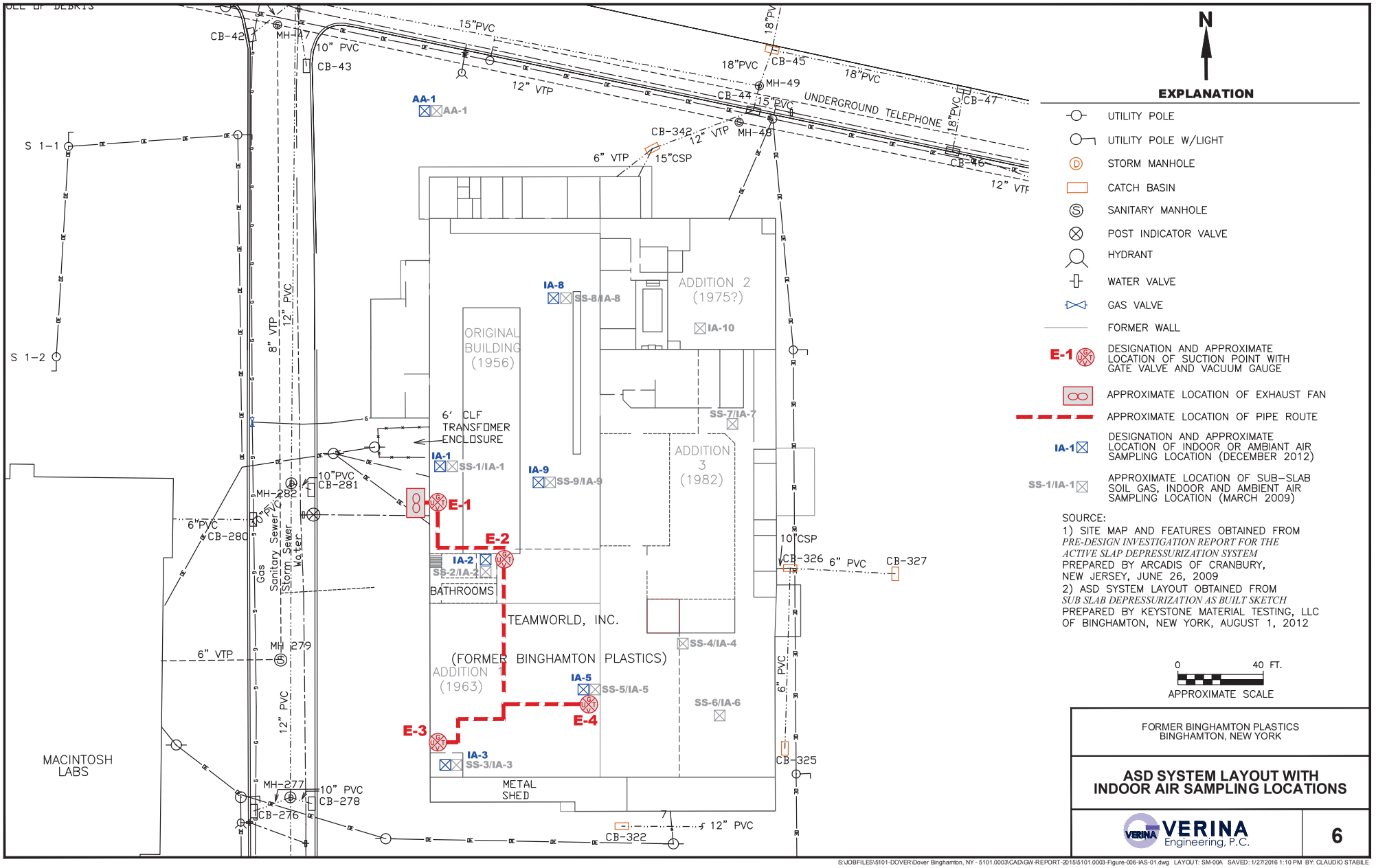
FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

PERCHED GROUNDWATER ESTIMATED PCE AND DAUGHTER COMPOUND TOTAL MOLAR ISOCONCENTRATION MAP JUNE 2009 AND SEPTEMBER 2015

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FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

ASD SYSTEM LAYOUT WITH INDOOR AIR SAMPLING LOCATIONS

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Tables

Table 1 - Groundwater Elevation Data - April 2015, Former Binghamton Plastics, Binghamton, New York

Monitoring Well	Well Diameter (in)	Total Depth (ft, bg)	Screened Interval (ft, bg)	Surface Elevation (ft, msl)	Top of Casing Elevation (ft, msl)	Top of PVC Elevation (ft, msl)	Depth to Water (ft, TOC)	Groundwater Elevation (ft, msl)
DMW-1	4	15	5-15	876.19	876.44	874.21	Abandoned	NA
DMW-3	2	45.80	41-48	875.16	875.16	874.22	21.35	852.87
DMW-4	2	15.57	4-14	878.32	878.38	877.91	3.39	874.52
MW-5	2	20	10-20	874.18	874.17	873.83	Abandoned	NA
MW-6	2	40.24	30-40	869.62	869.63	869.37	22.16	847.21
MW-7	2	40.33	30-40	869.96	869.99	869.60	26.59	843.01
MW-8	2	14.28	5-15	873.22	873.18	872.83	1.94	870.89
MW-9	2	14.64	5-15	875.02	875.04	874.76	1.38	873.38
MW-10	2	14.53	5-15	875.70	875.71	875.47	2.49	872.98
MW-11	2	19.29	10-20	874.53	874.52	874.14	1.74	872.40
MW-12	2	44.70	35-45	873.70	873.70	873.38	24.80	848.58
MW-13	2	13.94	5-15	874.08	874.09	873.60	4.57	869.03
MW-14	2	14.41	5-15	871.06	871.07	870.57	1.05	869.52
MW-15	2	15	5-15	874.06	874.16	873.69	Abandoned	NA
MW-16	2	14.31	5-15	874.56	NS	874.11	1.91	872.20
MW-17	2	14.96	5-15	874.03	NS	873.74	1.25	872.49
TMP-A	1	7.31	3-8	871.59	NS	871.39	1.82	869.57
TMP-B	1	10	5-10	869.57	NS	869.36	Abandoned	NA

NOTES:

Elevation is surveyed to National Vertical Datum - 1929

in = Inches

ft, bg = Feet below grade

ft, msl = Feet above mean sea level

ft, TOC = Feet from top of inner well casing

NA = Not available

NS = Not surveyed

Groundwater elevation measured on April 20, 2015

Table 2 - Groundwater Elevation Data - October 2015, Former Binghamton Plastics, Binghamton, New York

Monitoring Well	Well Diameter (in)	Total Depth (ft, bg)	Screened Interval (ft, bg)	Surface Elevation (ft, msl)	Top of Casing Elevation (ft, msl)	Top of PVC Elevation (ft, msl)	Depth to Water (ft, TOC)	Groundwater Elevation (ft, msl)
DMW-1	4	15	5-15	876.19	876.44	874.21	Abandoned	NA
DMW-3	2	NA	41-48	875.16	875.16	874.22	24.96	849.26
DMW-4	2	NA	4-14	878.32	878.38	877.91	4.54	873.37
MW-5	2	20	10-20	874.18	874.17	873.83	Abandoned	NA
MW-6	2	NA	30-40	869.62	869.63	869.37	25.69	843.68
MW-7	2	NA	30-40	869.96	869.99	869.60	31.07	838.53
MW-8	2	NA	5-15	873.22	873.18	872.83	2.49	870.34
MW-9	2	NA	5-15	875.02	875.04	874.76	2.61	872.15
MW-10	2	NA	5-15	875.70	875.71	875.47	3.60	871.87
MW-11	2	NA	10-20	874.53	874.52	874.14	2.93	871.21
MW-12	2	NA	35-45	873.70	873.70	873.38	28.77	844.61
MW-13	2	NA	5-15	874.08	874.09	873.60	4.69	868.91
MW-14	2	NA	5-15	871.06	871.07	870.57	1.01	869.56
MW-15	2	15	5-15	874.06	874.16	873.69	Abandoned	NA
MW-16	2	NA	5-15	874.56	NS	874.11	2.57	871.54
MW-17	2	NA	5-15	874.03	NS	873.74	2.26	871.48
TMP-A	1	NA	3-8	871.59	NS	871.39	2.16	869.23
TMP-B	1	10	5-10	869.57	NS	869.36	Abandoned	NA

NOTES:

Elevation is surveyed to National Vertical Datum - 1929

in = Inches

ft, bg = Feet below grade

ft, msl = Feet above mean sea level

ft, TOC = Feet from top of inner well casing

NA = Not available

NS = Not surveyed

Groundwater elevation measured on October 7, 2015

Table 3 - Summary of Residual Sodium Permanganate Results, Former Binghamton Plastics, Binghamton, New York

Well ID No.	Residual Sodium Permanganate by Permanganate Ion Analysis (ppm)					
	December 2009	March 2010	June 2010	September 2010	December 2010	March 2011
MW-8	131.5	149	105.50	9.56	>19.8	3.74
MW-9	0.30	1.736	1.47	10.04	NS	18.91
MW-10	3.07	4.268	NS	3.57	>19.8	156.34
MW-11	132.2	149.1	151.70	120.80	>19.8	155.98
MW-16	29.71	95.1	76.99	105.60	>19.8	0.835
MW-17	NS	NS	103.00	11.21	>19.8	155.98

Well ID No.	Residual Sodium Permanganate by Permanganate Ion Analysis (ppm)					
	October 2011	March 2012	September 2012	March 2013	September 2013	March 2014
MW-8	0.16	17.2	1.3	0.5	70	14
MW-9	NS	7.3	NS	0.2	NS	3.0
MW-10	NS	2.4	NS	NS	NS	NS
MW-11	35.80	26.1	10.7	30	34	20
MW-16	146.46	4.6	1.7	1.1	1.3	3.1
MW-17	NS	NS	4.7	2.5	1.0	2.9

Well ID No.	Residual Sodium Permanganate by Permanganate Ion Analysis (ppm)					
	March 2014	September 2014	March 2015	September 2015		
MW-8	14.0	10.0	10.3	164		
MW-9	3.0	1.1	1.0	24		
MW-10	NS	NS	NS	0.8		
MW-11	20.0	11.1	NS	6.0		
MW-16	3.1	114	110.8	8.0		
MW-17	2.9	24.4	23.7	104		

NOTES:

ppm = parts per million

NS = Not sampled

A Hach DR890 colorimeter was used to measure the concentration of residual sodium permanganate

Table 4 - Summary of Sodium Permanganate Manual Injection Events, Former Binghamton Plastics, Binghamton, New York

	Injection Date				
Well ID No.	6/11/2009*	9/18/2009*	12/10/2009*	3/9/2010-3/10/2010*	6/23/2010*
MW-8	5	11	11	12.125	11
MW-9	5	11	11	11	11
MW-10	7	11	11	11	11
MW-11	3	5	5	2.75	5
MW-16	5	11	11	12.125	11
MW-17	5	11	11	11	11
Total	30	60	60	60	60

	Injection Date				
Well ID No.	9/22/2010*	12/16/2010*	3/24/2011**	11/4/2011**	3/22/2012**
MW-8	11	11	11	5	1.25
MW-9	11	11	11	22	35
MW-10	11	11	11	13	4.5
MW-11	5	5	5	2	1.25
MW-16	11	11	11	13	4.5
MW-17	11	11	11	5	1.5
Total	60	60	60	60	48

	Injection Date				
Well ID No.	6/22/2012**	9/17/2012-9/18/2012**	3/12/2013**	6/12/2013**	9/2/2013-9/6/2013*
MW-8	11	12	10	13	12.5
MW-9	11	12	13	10	11
MW-10	12	10	13	10	11
MW-11	3	4	2	4	4.5
MW-16	12	11	13	13	11
MW-17	11	11	9	10	10
Total	60	60	60	60	60

	Injection Date				
Well ID No.	12/10/2013*	3/20/2014-3/21/2014*	6/16/2014*	9/25/2014-9/26/2014*	12/17/2014 *
MW-8	10	10	12	6	6.5
MW-9	10	10	10	18	13
MW-10	12	10	10	15	15.5
MW-11	2	1.5	3	5	2
MW-16	15	12.5	15	13	13
MW-17	11	16	10	10	10
Total	60	60	60	67	60

NOTES:

All units are presented in gallons.

* A 10% of sodium permanganate solution was injected during this event .

** A 5% of sodium permanganate solution was injected during this event .

Table 4 - Summary of Sodium Permanganate Manual Injection Events, Former Binghamton Plastics, Binghamton, New York

Well ID No.	Injection Date				
	3/18/2015-3/19/2015*	6/26/2015 *	8/27/2015 *	12/17/2015 *	
MW-8	14.5	10	10	10	
MW-9	10	13	10	10	
MW-10	10	11	10	10	
MW-11	2	2	10	10	
MW-16	13.5	17	10	10	
MW-17	10	7	10	10	
Total	60	60	60	60	

NOTES:

All units are presented in gallons.

* A 10% of sodium permanganate solution was injected during this event .

** A 5% of sodium permanganate solution was injected during this event .

Table 5 - Groundwater Analytical Data - March 2015, Former Binghamton Plastics, Binghamton, New York

Sample ID		MW-8	MW-9	MW-10	MW-16
Laboratory ID		R1501980-003	R1501980-008	R1501980-004	R1501980-006
Date Sampled	NYSDEC	3/18/2015	3/19/2015	3/18/2015	3/18/2015
Units	GWQS	µg/l	µg/l	µg/l	µg/l
1,1-Dichloroethane	5	**6.6**	5.0 U	0.69 J	**7.8**
1,1-Dichloroethene	5	5.0 U	5.0 U	5.0 U	1.8 J
cis-1,2-Dichloroethene	5	0.75 J	0.92 J	2.1 J	**31**
trans-1,2-Dichloroethene	5	5.0 U	5.0 U	5.0 U	0.35 J
Tetrachloroethene	5	5.0 U	5.0 U	0.66 J	5.0 U
1,1,1-Trichloroethane	5	4.4 J	5.0 U	1.0 J	1.1 J
Trichloroethene	5	**6.4**	**13**	**6.2**	**7.1**
Vinyl Chloride	2	5.0 U	5.0 U	5.0 U	**15**

Sample ID		MW-17	DUP-031815	FB-031815	FB-031915	TRIP BLANK
Laboratory ID		R1501980-002	R1501980-007	R1501980-005	R1501980-009	R1501980-001
Date Sampled	NYSDEC	3/18/2015	3/18/2015	3/18/2015	3/19/2015	3/18/2015
Units	GWQS	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-Dichloroethane	5	**11**	**12**	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5	**5.8**	**7.8**	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	5	1.4 J	1.6 J	5.0 U	5.0 U	5.0 U
Trichloroethene	5	3.5 J	4.6 J	5.0 U	5.0 U	5.0 U
Vinyl Chloride	2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Notes:

J = Estimated value

D = Compound identified in an analysis at a secondary dilution factor

U = Compound analyzed for but not detected

DUP-031815 is a field duplicate of MW-17

Bold = concentration exceeds NYSDEC GWQS

µg/l = micrograms per liter

NYSDEC = New York State Department of Environmental Conservation

GWQS = Ground Water Quality Standards

FB-031815 & FB-031915 are the field blank samples

Table 6 - Groundwater Analytical Data - September 2015, Former Binghamton Plastics, Binghamton, New York

Sample ID		TMP-A *	MW-8	MW-9	MW-10	DUP-092315	MW-11
Laboratory ID		R1508047-009	R1508047-006	R1508047-010	R1508047-003	R1508047-012	R1508047-004
Date Sampled	NYSDEC	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015
Units	GWQS	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-Dichloroethane	5	0.31 J	2.4 J	5.0 U	0.81 J	0.78 J	5.0 U
1,1-Dichloroethene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5	5.0 U	5.0 U	5.0 U	3.2 J	3.1 J	5.0 U
trans-1,2-Dichloroethene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5	5.0 U	5.0 U	5.0 U	1.5 J	1.3 J	5.0 U
1,1,1-Trichloroethane	5	5.0 U	2.3 J	0.44 J	3.8 J	3.6 J	0.92 J
Trichloroethene	5	5.0 U	5.0 U	4.0 J	**18**	**17**	5.0 U
Vinyl Chloride	2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sample ID		MW-13	MW-16	MW-17	DMW-3	FB-092315	TRIP BLANK
Laboratory ID		R1508047-008	R1508047-005	R1508047-002	R1508047-007	R1508047-011	R1508047-001
Date Sampled	NYSDEC	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015
Units	GWQS	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-Dichloroethane	5	5.0 U	**53**	**21**	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	5	5.0 U	**7.3**	2.7 J	5.0 U	5.0 U	5.0 U
Trichloroethene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Notes:

J = Estimated value

D = Compound identified in an analysis at a secondary dilution factor

U = Compound analyzed for but not detected

0DUP-092315 is a blind duplicate of MW-11

Bold = concentration exceeds NYSDEC GWQS

µg/l = micrograms per liter

NYSDEC = New York State Department of Environmental Conservation

GWQS = Ground Water Quality Standards

FB-092315 is a field blank sample

* = TMP-A sample shown as sample name "TMP-4" in laboratory report

Table 7 - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
DMW-1	2/8/1999	1000	< 180	< 360	8200	71
DMW-3	12/10/1998	<2.5	<2.5	<0.5	1.1 J	<10
	9/18/2001	< 0.5	< 0.5	< 0.5	0.5 J	< 0.5
	4/1/2002	0.03 J	< 0.5	< 0.5	0.3 J	< 0.5
	9/19/2002	0.2 J	<0.5	0.07 J	0.3 J	<0.5
	3/28/2003	<0.5	<0.5	0.2 J	0.1 J	<0.5
	6/19/2003	0.8	<0.5	0.3 J	0.8	<0.5
	9/16/2003	<0.5	<0.5	0.3 J	0.08 J	<0.5
	1/6/2004	<0.5	0.091 J	0.31 J	0.16 J	<0.5
	4/6/2004	0.2 J	<0.5	0.25 J	0.15 J	<0.5
	6/24/2004	<0.5	<0.5	0.17	<0.5	<0.5
	9/20/2004	<0.5	<0.5	0.23 J	0.13 J	<0.5
	3/23/2005	<0.5	<0.5	<0.5	0.13J	<0.5
	9/27/2005	<2	<2	<1	<1	<2
	3/7/2006	<5	<5	0.43J	<5	<5
	5/25/2006	<5	<5	<5	<5	<5
	9/19/2006	<5	<5	<5	<5	<5
	4/2/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	8/28/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	10/15/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	3/24/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	7/22/2008	<5.0	<5.0	<5.0	0.88 J	<5.0
	10/7/2008	<5.0	<5.0	<5.0	0.40 J	<5.0
	12/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	3/11/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	6/9/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	9/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	12/9/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	3/9/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	6/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/14/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	10/27/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	3/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/18/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2014	<5.0	<5.0	<5.0	<5.0	<5.0
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
DMW-4	12/9/1998	< 2.5	< 2.5	< 5	1.2J	< 10
TMP-A	3/22/2005	<0.5	<0.5	<0.5	<0.5	<0.5
	9/27/2005	<2	<2	<1	<2	<2
	3/7/2006	<5	<5	<5	<5	<5
	5/25/2006	<5	<5	<5	<5	<5
	9/19/2006	<5	<5	<5	<5	<5
	4/2/2007	<5	<5	<5	<5	<5
	7/23/2008	<5	<5	<5	<5	<5
	10/7/2008	<5	<5	<5	<5	<5
	3/9/2009	<5	<5	<5	<5	<5
	6/9/2009	<5	<5	<5	<5	<5
	9/16/2009	<5	<5	<5	<5	<5
	3/8/2010	<5	<5	<5	<5	<5
	10/27/2011	<5	<5	<5	<5	<5
	3/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/18/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	3/11/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/5/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2014	<5.0	<5.0	<5.0	<5.0	<5.0
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0

See notes on last page.

Table 7 - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
MW-2	12/10/1998	7.9	< 2.5	1.3 J	86	< 10
MW-5	12/10/1998	480	11	1	17,000	20
	9/18/2001	370 J	< 500	<500	23,000	< 500
	4/1/2002	0.3 J	< 0.5	0.06 J	48	< 0.5
MW-6	12/9/1998	< 2.5	< 2.5	< 5	< 5	< 10
MW-7	12/8/1998	< 2.5	< 2.5	< 5	< 5	< 10
MW-8	12/10/1998	0.25	< 5	< 0.01	0.35	<20
	9/18/2001	650	< 25	< 25	100	44
	4/1/2002	170	2	6	230	6
	9/18/2002	240	3 J	<6	560	<6
	3/28/2003	370	4	0.4 J	420	16
	6/19/2003	1,000	19	<13	810	36
	9/16/2003	960	14 J	<31	250	240
	1/6/2004	670	7.3 J	<18	500	7.7 J
	4/6/2004	1,900	12 J	<50	420	300
	6/24/2004	2,500	27	83	170	430
	9/20/2004	6,200	75	<210	380	740
	3/23/2005	4,000	44 J	<0.5	930	490
	6/14/2005	<2	<2	<1	<1	<2
	9/27/2005	<2	<2	<1	<1	<2
	3/7/2006	<50	<50	<50	<50	<50
	4/2/2007	110	0.69J	<5.0	360D	<5.0
	10/15/2007	640 D	9.8 J	<13	2700 D	66
	3/24/2008	170	3.3 J	<13	790 D	4.2 J
	7/22/2008	900	14 J	<100	3400	120
	10/7/2008	640	18 J	<100	3200	82 J
	12/2/2008	440	6.4 J	<25	2200 D	3.6 J
	3/10/2009	450	<100	<100	2200	38 J
	6/9/2009	680	14 J	<50	5600 D	53
	9/14/2009	NS	NS	NS	NS	NS
	12/8/2009	NS	NS	NS	NS	NS
	3/8/2010	NS	NS	NS	NS	NS
	6/21/2010	NS	NS	NS	NS	NS
	9/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/15/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	100	0.43 J	<5.0	940 D	3.9 J
	10/27/2011	330 D	1.6 J	<5.0	2700 D	21
	3/13/2012	290	3.2 J	<50	1800	32 J
	9/17/2012	360	<50	<50	1000	33 J
	3/11/2013	210	11 J	<50	1200	5.3 J
	9/2/2013	1.7 J	<5.0	<5.0	16	<5.0
	3/17/2014	0.85 J	<5.0	<5.0	12	<5.0
	9/20/2014	0.67 J	<5.0	<5.0	3.9 J	<5.0
	3/18/2015	0.75 J	<5.0	<5.0	6.4	<5.0
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
MW-9	12/10/1998	7.3	< 2.5	1.2J	77	< 10
	4/1/2002	0.6	< 0.5	0.2 J	20	< 0.5
	9/18/2002	7	0.08 J	1	57 J	0.9 J
	3/28/2003	1	<0.5	0.4 J	16	<0.5
	6/19/2003	3	0.04 J	0.5	26	0.09 J
	916/2003	4.1	<1.3	0.61 J	40	<1.3
	1/6/2004	2.4	0.083 J	0.48 J	23	<0.5
	4/6/2004	0.8 J	<1	0.61 J	30	<1
	6/24/2004	4.7	<0.5	0.53	27	0.52
	9/20/2004	6.2	<2.0	0.79 J	57	<2.0
	3/23/2005	0.78	<0.5	0.23 J	17	<0.5
	9/27/2005	5.5	<2	<2	46	<2
	3/7/2006	<5	<5	<5	<5	<5
	4/2/2007	0.85J	<5.0	<5.0	24	<5.0
	8/28/2007	8.4	<5.0	0.88 J	55	0.67 J
	10/15/2007	10	<5.0	0.81 J	55	<5.0
	3/24/2008	0.44 J	<5.0	<5.0	19	<5.0
	7/21/2008	12	<5.0	0.55 J	45	0.55 J
	10/8/2008	7.1	<5.0	0.59 J	49	<5.0
	12/2/2008	5.8	<5.0	0.47 J	49	<5.0
	3/10/2009	2.1 J	<5.0	<5.0	24	<5.0
	6/10/2009	1.4 J	<5.0	<5.0	32	<5.0
	9/16/2009	1.9 J	<5.0	0.83 J	24	<5.0
	12/8/2009	2.2 J	<5.0	0.43 J	32	<5.0
	3/8/2010	0.78 J	<5.0	<5.0	16	<5.0
	6/21/2010	1.60 J	<5.0	<5.0	37	<5.0
	9/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/16/2010	<5.0	<5.0	<5.0	3.6 J	<5.0
	3/23/2011	<5.0	<5.0	<5.0	14	<5.0
	10/26/2011	0.76 J	<5.0	0.38 J	34	<5.0
	3/13/2012	0.21 J	<5.0	<5.0	17	<5.0
	9/18/2012	1.1 J	<5.0	0.39 J	39	<5.0
	3/11/2013	<5.0	<5.0	<5.0	14	<5.0
	9/5/2013	0.94 J	<5.0	0.31 J	28	<5.0
	3/17/2014	0.41 J	<5.0	<5.0	14	<5.0
	9/21/2014	<5.0	<5.0	<5.0	22	<5.0
	3/19/2015	0.92 J	<5.0	<5.0	13	<5.0
	9/23/2015	<5.0	<5.0	<5.0	4.0 J	<5.0

See notes on last page.

Table 7 - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
MW-10	12/10/1998	18	< 2.5	54	64	2.3 J
	9/18/2001	10	< 1.4	2	21	18
	4/1/2002	11	0.3 J	1	16	2
	9/18/2002	14	0.4 J	4	53 J	21
	3/28/2003	11	0.2 J	2	25	2
	6/19/2003	13	0.5 J	3	32	9
	9/16/2003	15	0.39 J	2.4	42	12
	1/6/2004	4.3	0.26 J	1.6	13	0.43 J
	4/6/2004	4.7	<0.5	0.89	13	0.38 J
	6/24/2004	16	0.65	2.6	45	8.6
	9/20/2004	3.4	0.15 J	2.7	16	0.9
	3/23/2005	3.8	0.11 J	1.1	12	0.57
	9/27/2005	13	<2	3	50	6.6
	3/7/2006	9.3	<5	1.6J	27	2.5J
	9/19/2006	17	0.48J	2.2J	32	5.9
	8/28/2007	12	0.33 J	2.2 J	31	5.9
	10/15/2007	4.8 J	<5.0	2.1 J	16	1.7 J
	3/24/2008	3.9 J	<5.0	0.53 J	6.6	<5.0
	7/21/2008	3.7 J	<5.0	0.45 J	5.3	0.72 J
	10/8/2008	12	0.26 J	1.4 J	25	5.3
	12/2/2008	4.4 J	<5.0	1.2 J	9.4	<5.0
	3/10/2009	4.3 J	<5.0	0.77 J	9.2	<5.0
	6/8/2009	15	<5.0	1.6 J	36	2.4 J
	9/14/2009	18	<5.0	2.0 J	37	4.8 J
	12/9/2009	13	<5.0	1.3 J	23	1.1 J
	3/8/2010	5.3	<5.0	0.71 J	9.7	<5.0
	6/22/2010	19	0.29 J	1.6 J	37	3.5 J
	9/21/2010	18	0.32 J	1.8 J	33	4.5 J
	12/15/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	86	<5.0	0.67 J	180	1.8 J
	10/26/2011	11	0.21 J	1.7 J	28	2.2 J
	3/13/2012	6	<5.0	0.81 J	18	0.46 J
	9/17/2012	14	<5.0	1.8 J	40	2.7 J
	3/11/2013	7.9	<5.0	0.72 J	18	0.49 J
	9/2/2013	11	<5.0	1.7 J	32	1.1 J
	3/17/2014	3.4 J	<5.0	0.63 J	7.3	<5.0
	9/21/2014	8.9	<5.0	1.4 J	29	0.69 J
	3/18/2015	2.1 J	<5.0	0.66 J	6.2	<5.0
	9/23/2015	3.2 J (3.1 J)	<5.0 (<5.0)	1.5 J (1.3 J)	18 (17)	<5.0 (<5.0)
MW-11	12/9/1998	1,100	11	< 5	1,400	140
	9/18/2001	850	< 31	<31	700	77
	4/1/2002	1,100	12	<50	1,500	23
	9/19/2002	1,600	12 J	<25	2,100	82
	3/28/2003	1,200	11	0.2 J	2,400	58
	6/19/2003	1,300	10 J	<25	2,500	24 J
	9/16/2003	1,700	13 J	<83	2,500	170
	1/6/2004	1,200	31 J	<53	1,500	28 J
	4/6/2004	1,700	17	<83	2,300	6.8
	6/24/2004	1,600	18	<63	1,900	29
	9/20/2004	2,300 D	26 DJ	<63	2,200 D	58 DJ
	3/23/2005	1,500 D	21	<0.5	1,300 D	7.8
	6/14/2005	<2	<2	<1	<1	<2
	9/27/2005	<2	<2	<1	<1	<2
	3/7/2006	<500	<500	<500	<500	<500
	10/15/2007	<5.0	<5.0	<5.0	<5.0	< 5.0
	3/24/2008	130	<25	<25	520	5.2 J
	7/22/2008	1900	15 J	<100	2900	140
	10/7/2008	NS	NS	NS	NS	NS
	12/2/2008	NS	NS	NS	NS	NS
	3/11/2009	990	9.1 J	<25	3200 D	67
	6/8/2009	NS	NS	NS	NS	NS
	9/14/2009	NS	NS	NS	NS	NS
	12/8/2009	NS	NS	NS	NS	NS
	3/9/2010	NS	NS	NS	NS	NS
	6/21/2010	NS	NS	NS	NS	NS
	9/20/2010	NS	NS	NS	NS	NS
	12/16/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	10/27/2011	<5.0	<5.0	<5.0	0.57 J	<5.0
	3/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/17/2012	<5.0	<5.0	<5.0	0.62 J	<5.0
	3/11/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/2/2013	1.2 J	<5.0	<5.0	4.3 J	<5.0
	3/18/2014	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2014	<25	<25	<25	<25	<25
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0

See notes on last page.

Table 7 - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
MW-12	12/7/1998	< 2.5	< 2.5	< 5	< 5	< 10
MW-13	12/9/1998	< 2.5	< 2.5	< 5	< 5	< 10
	3/24/2008	NS	NS	NS	NS	NS
	7/23/2008	NS	NS	NS	NS	NS
	10/9/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	12/2/2008	<5.0	<5.0	<5.0	0.96 J	<5.0
	3/9/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	6/10/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	9/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	12/7/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	3/9/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	6/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/16/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	10/26/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	3/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/18/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2014	<5.0	<5.0	<5.0	<5.0	<5.0
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
MW-14	12/9/1998	< 2.5	< 2.5	< 5	< 5	< 10
	9/18/2001	< 0.5	< 0.5	< 0.5	0.2J	< 0.5
	3/28/2003	<0.5	<0.5	0.08 J	<0.5	<0.5
	6/19/2003	<0.5	<0.5	0.3 J	0.04 J	<0.5
	9/16/2003	<0.5	<0.5	0.087 J	<0.5	<0.5
	1/6/2004	<0.5	<0.5	<0.5	0.064 J	<0.5
	4/6/2004	<0.5	<0.5	<0.5	<0.5	<0.5
	6/24/2004	2.1	<0.5	0.27 J	6.5	<0.5
	9/20/2004	<0.5	<0.5	<0.5	<0.5	<0.5
	3/23/2005	<0.5	<0.5	<0.5	<0.5	<0.5
	3/7/2006	<5.0	<5.0	<5.0	<5.0	<5.0
	5/25/2006	<5.0	<5.0	<5.0	<5.0	<5.0
	9/19/2006	<5.0	<5.0	<5.0	<5.0	<5.0
	4/2/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	8/28/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	10/15/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	3/24/2008	<5.0	<5.0	<5.0	0.62 J	<5.0
	7/23/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	10/7/2008	<5.0	<5.0	<5.0	0.32 J	<5.0
	12/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	3/11/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	6/10/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	9/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	12/9/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	3/9/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	6/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/14/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	10/26/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	3/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/18/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2014	<5.0	<5.0	<5.0	<5.0	<5.0
MW-15	12/10/1998	960	11	14	6,900	23
	9/18/2001	790	< 84	< 84	4,000	68 J
	4/1/2002	510	10	17	3,400	34

See notes on last page.

Table 7 - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
MW-16	9/19/2002	1,500	11 J	<32	340	38
	3/28/2003	440	7	0.2 J	15	59
	6/19/2003	400	12	0.3 J	48	58
	9/16/2003	87	4.8	0.323 J	9	24
	1/6/2004	68	3.3	<2.5	6.6	20
	4/6/2004	22	1.1	0.23 J	2.6	5.6
	6/24/2004	6.8	2	0.23 J	4.1	2.3
	9/20/2004	78 D	5.2 D	<2.5	17	27 D
	3/23/2005	9.3	5.4	<0.5	0.95	4.4
	9/25/2005	12	5.4	<1	6.2	11
	3/7/2006	<500	<500	<500	<500	<500
	10/15/2007	240 D	13	0.64 J	110	140
	3/24/2008	NS	NS	NS	NS	NS
	7/22/2008	240	8.7 J	<13	69	87
	10/8/2008	710	13 J	1.1 J	330	180
	12/2/2008	450 D	10	0.94 J	320	88
	3/10/2009	270	4.6 J	1.1 J	280	42
	6/10/2009	650	10 J	<25	480	76
	9/15/2009	<5	<5	0.55 J	<5	<5
	12/8/2009	NS	NS	NS	NS	NS
	3/9/2010	NS	NS	NS	NS	NS
	6/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2010	NS	NS	NS	NS	NS
	12/16/2010	16	<5.0	<5.0	38	<5.0
	3/23/2011	4.1 J	<5.0	0.70 J	7.4	<5.0
	10/27/2011	140	5.6	1.8 J	240 D	<5.0
	3/13/2012	94	2.7 J	0.44 J	96	10
	9/17/2012	140	2.0 J	0.71 J	160	11
	3/11/2013	96	7.5	0.34 J	38	1.9 J
	9/5/2013	170	10	0.50 J	72	9.3
	3/17/2014	49	1.4 J	<5.0	10	14
	9/21/2014	17	<5.0	0.43 J	8.6	<5.0
	3/18/2015	31	0.35 J	<5.0	7.1	15
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
MW-17	9/19/2002	1,800	18 J	<42	2,800	38 J
	3/28/2003	280	11	0.3 J	2	180
	6/19/2003	50	13	<6	1	65
	9/16/2003	4	11	1.6 J	0.74 J	9.1
	1/6/2004	3.3 J	6.4	<4.2	0.81 J	2.4 J
	4/6/2004	3 J	6.8	<5	1.6 J	4.5 J
	6/24/2004	<4.2	9.8	2.2	1.1	1.5
	9/20/2004	3.3 J	11	2.1 J	<5.0	6.7
	3/25/2005	7.9	7.3	<0.5	0.8	5.9
	9/27/2005	150	8	<1	71	24
	3/7/2006	<50	<50	<50	<50	<50
	9/19/2006	0.33	24	3.2	31	17
	8/28/2007	55	2.4 J	0.82 J	110	82
	10/15/2007	37	1.5 J	0.38 J	73	6.6
	3/24/2008	3.0 J	0.33 J	<5.0	1.2 J	0.93 J
	7/21/2008	2.4 J	0.94 J	<5.0	0.66 J	1.1 J
	10/8/2008	16	1.6 J	0.21 J	35	5.7
	12/2/2008	6.6	0.46 J	<5.0	15	1.3 J
	3/10/2009	3.7 J	0.46 J	<5.0	4.4 J	1.9 J
	6/9/2009	2.8 J	0.78 J	<5.0	3.5 J	1.1 J
	9/14/2009	38	2.5 J	0.60 J	110	9.1
	12/8/2009	7.4	0.61 J	<5.0	23	2.1 J
	3/9/2010	4.5 J	<5.0	<5.0	6.5	1.1 J
	6/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/15/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	5.6	<5.0	<5.0	2.2 J	<5.0
	10/26/2011	87	4.2 J	0.53 J	65	20
	3/14/2012	77	3.3 J	0.27 J	40	18
	9/17/2012	200	10	0.44 J	74	8.2
	3/11/2013	53	2.8 J	<5.0	14	0.41 J
	9/5/2013	84	3.6 J	<5.0	45	1.3 J
	3/17/2014	18	1.0 J	<5.0	3.3 J	<5.0
	9/21/2014	10	<5.0	<5.0	4.3 J	<5.0
	3/18/2015	5.8 (7.8)	<5.0 (<5.0)	<5.0 (<5.0)	3.5 J (4.6 J)	<5.0 (<5.0)
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0

NOTES:

J = Estimated value; compound detected below Detection Limit.

D = Compound identified in an analysis at a secondary dilution factor

= Baseline result

NS=Not sampled

µg/l = Micrograms per liter

< = Not detected above laboratory reporting limit given

Table 8 - Proposed 2016 Groundwater Monitoring Matrix, Former Binghamton Plastics, Binghamton, New York

Implemented Monitoring Matrix in 2015		
Well ID	Monitoring Schedule	Analysis
DMW-3	Annual	SSPL VOCs
TMP-A	Annual	SSPL VOCs
MW-8	Semiannual	SSPL VOCs
MW-9	Semiannual	SSPL VOCs
MW-10	Semiannual	SSPL VOCs
MW-11	Annual	SSPL VOCs
MW-13	Annual	SSPL VOCs
MW-16	Semiannual	SSPL VOCs
MW-17	Semiannual	SSPL VOCs

Proposed Monitoring Matrix to be Implemented in 2016		
Well ID	Monitoring Schedule	Analysis
DMW-3	Annual	SSPL VOCs
TMP-A	Annual	SSPL VOCs
MW-8	Semiannual	SSPL VOCs
MW-9	Semiannual	SSPL VOCs
MW-10	Semiannual	SSPL VOCs
MW-11	Annual	SSPL VOCs
MW-13	Annual	SSPL VOCs
MW-16	Semiannual	SSPL VOCs
MW-17	Semiannual	SSPL VOCs

Appendices

Appendix A

VERINA Consulting Group, LLC

WELL GAUGING LOG

Former Bingahmton Plastics Site, Binghamton, NY (5101.0003)

Date: 4/20/2015 Personnel: MIF, DLC

Weather: Raining, 50s F, windy

Well No.	Well Diamter (in.)	Total Constructed Depth (ft, btoc)	Screened Interval (ft, btoc)	Surface Elevation (ft, MSL)	Top of Outer Casing Elecvation (ft, MSL)	Top of Inner Casing Elevation (ft, MSL)	Depth to Water (ft, btoc)	Groundwater Elevation (ft, MSL)	Total Measured Depth (ft, btoc)	Comments
DMW-1	4	15	5 - 15	876.19	876.44	874.21	Abandoned			
DMW-3	2	48	41 - 48	875.16	875.16	874.22	21.35	852.87	45.80	
DMW-4	2	15	5 - 15	878.32	878.38	877.91	3.39	874.52	15.57	
MW-5	2	20	10 - 20	874.18	874.17	873.83	Abandoned			
MW-6	2	40	30 - 40	869.62	869.63	869.37	22.16	847.21	40.24	
MW-7	2	40	30 - 40	869.96	869.99	869.6	26.59	843.01	40.33	
MW-8	2	15	5 - 15	873.22	873.18	872.83	1.94	870.89	14.28	
MW-9	2	15	5 - 15	875.02	875.04	874.76	1.38	873.38	14.64	
MW-10	2	15	5 - 15	875.7	875.71	875.47	2.49	872.98	14.53	
MW-11	2	20	10 - 20	874.53	874.52	874.14	1.74	872.4	19.29	
MW-12	2	45	35 - 45	873.7	873.7	873.38	24.80	848.58	44.70	
MW-13	2	15	5 - 15	874.08	874.09	873.6	4.57	869.03	13.94	
MW-14	2	15	5 - 15	871.06	871.07	870.57	1.05	869.52	14.41	
MW-15	2	15	5 - 15	874.06	874.16	873.69	Abandoned			
MW-16	2	15	5 - 15	874.56	NS	874.11	1.91	872.2	14.31	
MW-17	2	15	5 - 15	874.03	NS	873.74	1.25	872.49	14.96	
TMP-A	1	8	3 - 8	871.59	NS	871.39	1.82	869.57	7.31	
TMP-B	1	10	5 - 10	869.57	NS	869.36	Abandoned			

Notes:

ft, btoc = Feet below top of inner casing

ft, MSL = Feet above mean sea leavel

NS = Not surveyed

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WELL GAUGING LOG

Former Bingahmton Plastics Site, Binghamton, NY (5101.0003)

Date: 10/7/2015 Personnel: KFS, TML

Weather: 65-70 F, partly cloudy, light winds

Well No.	Well Diamter (in.)	Total Constructed Depth (ft, btoc)	Screened Interval (ft, btoc)	Surface Elevation (ft, MSL)	Top of Outer Casing Elecvation (ft, MSL)	Top of Inner Casing Elevation (ft, MSL)	Depth to Water (ft, btoc)	Groundwater Elevation (ft, MSL)	Total Measured Depth (ft, btoc)	Comments
DMW-1	4	15	5 - 15	876.19	876.44	874.21	Abandoned			
DMW-3	2	48	41 - 48	875.16	875.16	874.22	24.96	849.26	NA	
DMW-4	2	15	5 - 15	878.32	878.38	877.91	4.54	873.37	NA	
MW-5	2	20	10 - 20	874.18	874.17	873.83	Abandoned			
MW-6	2	40	30 - 40	869.62	869.63	869.37	25.69	843.68	NA	
MW-7	2	40	30 - 40	869.96	869.99	869.6	31.07	838.53	NA	
MW-8	2	15	5 - 15	873.22	873.18	872.83	2.49	870.34	NA	
MW-9	2	15	5 - 15	875.02	875.04	874.76	2.61	872.15	NA	
MW-10	2	15	5 - 15	875.7	875.71	875.47	3.60	871.87	NA	
MW-11	2	20	10 - 20	874.53	874.52	874.14	2.93	871.21	NA	
MW-12	2	45	35 - 45	873.7	873.7	873.38	28.77	844.61	NA	
MW-13	2	15	5 - 15	874.08	874.09	873.6	4.69	868.91	NA	
MW-14	2	15	5 - 15	871.06	871.07	870.57	1.01	869.56	NA	Concrete pad in poor condition
MW-15	2	15	5 - 15	874.06	874.16	873.69	Abandoned			
MW-16	2	15	5 - 15	874.56	NS	874.11	2.57	871.54	NA	
MW-17	2	15	5 - 15	874.03	NS	873.74	2.26	871.48	NA	
TMP-A	1	8	3 - 8	871.59	NS	871.39	2.16	869.23	NA	Damaged outer cap
TMP-B	1	10	5 - 10	869.57	NS	869.36	Abandoned			

Notes:

ft, btoc = Feet below top of inner casing

ft, MSL = Feet above mean sea leavel

NS = Not surveyed

NA = Not available

Appendix B

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__
Monitoring Well:	MW-8	Date:	3/18/2015	
Field Personnel:	KFS	Weather:	Cold, 19-28 F, snow showers, windy	

PRE-PURGE INFO:

Well Depth (ft btoc):	14.15	Depth to Water (ft btoc):	1.95
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	5-15
Pump Used:	QED 1.75" bladder	Depth of Pump (ft btoc):	~10

POST-PURGE INFO:

Color:	Dark purple	Mn/MnO4 (mg/L):	4.9/10.3
Volume Purged (gal):	~3	Sample ID:	MW-8 & MS/MSD
Final Depth to Water (ft btoc):	3.80	Sample Time:	13:55

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C)	pH (units)	Conductivity (ms/cm)	REDOX (Eh-mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
12:45	5.51	8.06	8.269	580.6	12.39	NA	2.47	4.60	175	Too dark purple to read turbidity
12:50	5.57	8.01	8.352	597.1	12.03	NA	2.91	4.63	175	
12:55	5.65	7.98	8.448	652.2	10.46	NA	3.43	4.68	175	
13:00	5.58	7.99	8.286	627.7	10.00	NA	3.59	4.55	100	Lower flow rate
13:05	5.26	8.02	7.876	628.8	9.74	NA	3.54	4.30	100	
13:10	4.98	8.20	6.263	620.7	9.39	NA	3.68	3.31	100	
13:15	4.91	8.36	4.656	612.6	9.03	NA	3.71	2.44	100	
13:20	4.95	8.42	3.948	608.5	8.93	NA	3.75	2.06	100	
13:25	4.94	8.43	3.692	608.6	8.92	NA	3.76	1.93	100	
13:30	5.02	8.42	3.555	608.8	8.78	NA	3.76	1.86	100	
13:35	4.66	8.42	3.445	610.6	8.74	NA	3.79	1.80	100	
13:40	4.42	8.42	3.413	611.9	8.71	NA	3.80	1.78	100	
13:45	4.45	8.42	3.402	611.6	8.63	NA	3.81	1.78	100	
13:50	4.47	8.42	3.397	611.5	8.59	NA	3.82	1.78	100	

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LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__
Monitoring Well:	MW-9	Date:	3/19/2015	
Field Personnel:	KFS	Weather:	Cold, 19-37 F, sunny, light winds	

PRE-PURGE INFO:

Well Depth (ft btoc):	14.40	Depth to Water (ft btoc):	1.31
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	5-15
Pump Used:	QED 1.75" bladder	Depth of Pump (ft btoc):	~10

POST-PURGE INFO:

Color:	Dark purple	Mn/MnO4 (mg/L):	0.6/1.0
Volume Purged (gal):	~2	Sample ID:	MW-9
Final Depth to Water (ft btoc):	1.45	Sample Time:	11:20

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C) Reading	pH (units) Reading	Conductivity (ms/cm) Reading	REDOX (Eh-mV) Reading	DO (mg/L) Reading	Turbidity (NTU) Reading	Depth to Water (ft) Reading	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
10:40	6.87	7.31	1.412	586.2	6.83	NA	1.38	0.71	150	Too dark purple to read turbidity
10:45	6.92	7.25	1.338	621.0	5.87	NA	1.55	0.67	150	
10:50	6.88	7.24	1.304	623.5	6.39	NA	1.52	0.65	150	
10:55	6.62	7.24	1.235	625.7	6.57	NA	1.49	0.61	150	
11:00	6.45	7.23	1.188	627.6	7.07	NA	1.45	0.59	150	
11:05	6.48	7.22	1.169	629.2	7.11	NA	1.46	0.58	150	
11:10	6.49	7.22	1.138	630.4	7.14	NA	1.48	0.57	150	
11:15	6.52	7.21	1.141	632.7	7.16	NA	1.47	0.57	150	

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LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__
Monitoring Well:	MW-10	Date:	3/18/2015	
Field Personnel:	MIF	Weather:	Overcast, 30s F, snowing	

PRE-PURGE INFO:

Well Depth (ft btoc):	~15	Depth to Water (ft btoc):	2.30
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	5-15
Pump Used:	QED 1.75" bladder	Depth of Pump (ft btoc):	~10

POST-PURGE INFO:

Color:	Brown	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~4	Sample ID:	MW-10
Final Depth to Water (ft btoc):	2.37	Sample Time:	15:30

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C) Reading	pH (units) Reading	Conductivity (ms/cm) Reading	REDOX (Eh-mV) Reading	DO (mg/L) Reading	Turbidity (NTU) Reading	Depth to Water (ft) Reading	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
14:50	5.17	7.23	0.353	535.8	11.19	561	2.46	0.17	300	
14:55	4.75	7.05	0.354	555.0	10.63	107	2.53	0.17	300	
15:00	4.15	7.02	0.373	579.1	10.06	75.9	2.65	0.18	300	
15:05	3.96	6.99	0.390	587.2	9.26	41.3	2.79	0.19	300	
15:10	3.82	7.00	0.395	589.5	8.99	37.0	2.79	0.19	300	
15:15	3.75	7.01	0.401	592.9	8.74	30.4	2.79	0.19	300	
15:20	3.71	7.02	0.405	593.4	8.62	29.7	2.79	0.19	300	
15:25	3.65	7.03	0.410	595.6	8.60	28.2	2.79	0.19	300	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__	
Monitoring Well:	MW-16	Date:	3/18/2015		
Field Personnel:	KFS	Weather:	Cold, 19-28 F, snow showers, windy		

PRE-PURGE INFO:

Well Depth (ft btoc):	14.19	Depth to Water (ft btoc):	1.74
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	5-15
Pump Used:	QED 1.75" bladder	Depth of Pump (ft btoc):	~10

POST-PURGE INFO:

Color:	Dark purple	Mn/MnO4 (mg/L):	48.5/110.8
Volume Purged (gal):	~2	Sample ID:	MW-16
Final Depth to Water (ft btoc):	2.29	Sample Time:	15:50

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C) Reading	pH (units) Reading	Conductivity (ms/cm) Reading	REDOX (Eh-mV) Reading	DO (mg/L) Reading	Turbidity (NTU) Reading	Depth to Water (ft) Reading	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
15:00	5.86	8.47	4.423	628.1	15.69	NA	2.04	2.22	100	Too dark purple to read turbidity
15:05	5.86	8.29	1.181	646.5	11.70	NA	2.19	0.54	100	
15:10	5.52	8.10	0.555	633.9	10.51	NA	2.31	0.27	100	
15:15	5.41	8.03	0.520	631.8	10.32	NA	2.31	0.25	100	
15:20	5.66	7.95	0.498	627.6	9.69	NA	2.32	0.24	100	
15:25	5.35	7.88	0.502	626.9	8.90	NA	2.32	0.24	100	
15:30	5.36	7.70	0.516	627.6	7.99	NA	2.32	0.26	100	
15:35	5.32	7.78	0.542	629.9	7.43	NA	2.32	0.26	100	
15:40	5.34	7.76	0.538	632.5	7.41	NA	2.32	0.26	100	
15:45	5.33	7.76	0.539	634.8	7.40	NA	2.32	0.26	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__	
Monitoring Well:	MW-17	Date:	3/18/2015		
Field Personnel:	MIF	Weather:	Overcast, snowing, 30s F		

PRE-PURGE INFO:

Well Depth (ft btoc):	~15	Depth to Water (ft btoc):	1.23
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	5-15
Pump Used:	QED 1.75" bladder	Depth of Pump (ft btoc):	~10

POST-PURGE INFO:

Color:	Dark pink	Mn/MnO4 (mg/L):	11.0/23.7
Volume Purged (gal):	~4	Sample ID:	MW-17 & DUP-031815
Final Depth to Water (ft btoc):	5.22	Sample Time:	13:10

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C) Reading	pH (units) Reading	Conductivity (ms/cm) Reading	REDOX (Eh-mV) Reading	DO (mg/L) Reading	Turbidity (NTU) Reading	Depth to Water (ft) Reading	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
12:30	7.14	7.01	0.613	523.5	3.98	809	2.04	0.30	300	
12:35	7.02	7.01	0.612	603.5	3.45	791	2.48	0.30	300	
12:40	7.01	7.06	0.661	634.0	4.25	NA	3.50	0.32	300	Too dark pink to read turbidity
12:45	7.07	7.08	0.685	637.7	3.98	NA	3.79	0.34	300	
12:50	7.57	7.09	0.739	641.2	3.99	NA	4.07	0.36	300	
12:55	7.47	7.12	0.800	642.8	3.96	NA	4.27	0.39	300	
13:00	7.59	7.13	0.812	643.8	3.97	NA	4.31	0.42	300	
13:05	7.34	7.15	0.825	644.2	4.00	NA	4.45	0.44	300	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__	
Monitoring Well:	TMP-A	Date:	9/23/2015		
Field Personnel:	SJT	Weather:	Clouds and sun, ~65 F, breezy		

PRE-PURGE INFO:

Well Depth (ft btoc):	7.14	Depth to Water (ft btoc):	2.81
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	3-8
Pump Used:	QED 0.75" bladder	Depth of Pump (ft btoc):	~5

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~0.75	Sample ID:	TMP-A
Final Depth to Water (ft btoc):	4.03	Sample Time:	14:55

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C)	pH (units)	Conductivity (ms/cm)	REDOX (Eh-mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
14:00	25.17	6.8	5.200	154.2	2.05	8.93	2.85	2.79	75	
14:05	23.18	7.01	4.551	180.3	1.70	7.11	2.96	2.43	75	
14:10	23.59	7.38	5.813	147.2	4.48	4.89	3.04	3.15	75	
14:15	24.5	7.61	5.871	124.1	5.01	3.67	3.13	3.18	75	
14:20	24.55	7.66	5.832	109.2	5.06	2.37	3.26	3.16	75	
14:25	24.43	7.69	5.923	107.1	5.09	2.48	3.33	3.21	75	
14:30	24.62	7.77	5.869	123.8	5.02	3.09	3.41	3.18	75	
14:35	21.93	7.34	5.971	53.2	1.62	2.62	3.56	3.25	75	Unknown why all values suddenly changed
14:40	23.39	7.58	6.041	128.1	4.96	2.14	3.61	3.29	75	
14:45	23.63	7.64	6.097	133.9	4.90	3.21	3.72	3.30	75	
14:50	23.74	7.66	6.134	135.9	4.81	2.67	3.81	3.30	75	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__
Monitoring Well:	MW-8	Date:	9/23/2015	
Field Personnel:	SJT	Weather:	Sunny, 60s F, breezy	

PRE-PURGE INFO:

Well Depth (ft btoc):	14.14	Depth to Water (ft btoc):	3.63
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	5-15
Pump Used:	QED 1.75" bladder	Depth of Pump (ft btoc):	~10

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	76/164
Volume Purged (gal):	~2.25	Sample ID:	MW-8
Final Depth to Water (ft btoc):	6.45	Sample Time:	13:31

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C)	pH (units)	Conductivity (ms/cm)	REDOX (Eh-mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
12:41	20.54	7.49	13.82	673.3	15.74	NA	4.00	8.23	200	Too dark purple to read turbidity
12:46	20.13	7.93	13.05	676.5	15.73	NA	4.34	7.45	200	
12:51	20.20	8.12	7.486	666.1	13.41	NA	4.62	4.11	200	Lower flow
12:56	20.68	8.16	5.883	660.0	11.84	NA	4.75	3.18	100	
13:01	20.85	8.07	4.486	659.4	11.13	NA	4.87	2.38	100	
13:06	20.98	7.97	3.301	658.1	9.91	NA	5.10	1.68	100	
13:11	20.95	7.95	3.042	657.6	9.14	NA	5.21	1.58	100	
13:16	20.92	7.94	2.895	656.9	8.16	NA	5.36	1.51	100	
13:21	20.91	7.95	2.878	655.1	7.90	NA	5.56	1.50	100	
13:26	20.86	7.99	2.961	655.1	7.81	NA	5.71	1.56	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__
Monitoring Well:	MW-9	Date:	9/23/2015	
Field Personnel:	KKA	Weather:	Sunny, clear, 70s F	

PRE-PURGE INFO:

Well Depth (ft btoc):	14.46	Depth to Water (ft btoc):	3.32
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	5-15
Pump Used:	QED 1.75" bladder	Depth of Pump (ft btoc):	~10

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	12/24
Volume Purged (gal):	~3	Sample ID:	MW-9
Final Depth to Water (ft btoc):	3.31	Sample Time:	15:58

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C)	pH (units)	Conductivity (ms/cm)	REDOX (Eh-mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
15:23	20.73	7.04	3.041	682.5	7.13	1006 AU	3.35	1.61	200	
15:28	19.30	6.81	3.076	709.3	3.14	798 AU	3.35	1.60	200	
15:33	19.51	6.74	2.251	710.9	2.34	-53	3.35	1.14	200	
15:38	19.58	6.75	1.799	701.4	2.21	2.76	3.30	0.91	200	
15:43	19.56	6.73	1.720	698.5	2.24	3.96	3.30	0.87	200	
15:48	19.52	6.71	1.696	698.0	2.16	2.90	3.30	0.86	200	
15:53	19.58	6.71	1.697	698.9	2.14	2.20	3.31	0.86	200	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__
Monitoring Well:	MW-10	Date:	9/23/2015	
Field Personnel:	SJT	Weather:	50-60s F, sun and clouds	

PRE-PURGE INFO:

Well Depth (ft btoc):	14.37	Depth to Water (ft btoc):	4.24
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	5-15
Pump Used:	QED 1.75" bladder	Depth of Pump (ft btoc):	~10

POST-PURGE INFO:

Color:	Rusty then light pink	Mn/MnO4 (mg/L):	0.4/0.8
Volume Purged (gal):	~4.5	Sample ID:	MW-10 and DUP-092315
Final Depth to Water (ft btoc):	4.62	Sample Time:	10:32

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C)	pH (units)	Conductivity (ms/cm)	REDOX (Eh-mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
9:42	18.71	6.99	1.277	424.7	1.31	NA	4.41	0.64	400	Too dark to read turbidity
9:47	19.65	6.77	1.285	563.4	0.62	NA	4.47	0.64	400	
9:52	20.15	6.76	1.282	603.4	0.76	29.8	4.50	0.64	400	
9:57	20.34	6.74	1.292	626.3	0.46	17.7	4.54	0.65	400	
10:02	20.44	6.73	1.295	644.6	0.30	11.12	4.52	0.65	400	
10:07	20.47	6.72	1.295	653.9	0.25	10.21	4.51	0.65	400	
10:12	20.50	6.73	1.293	661.9	0.24	6.01	4.60	0.65	400	
10:17	20.50	6.73	1.290	671.6	0.23	5.42	4.61	0.65	400	
10:22	20.51	6.73	1.289	675.3	0.23	4.60	4.62	0.65	400	
10:27	20.52	6.73	1.286	680.2	0.23	4.19	4.61	0.64	400	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__	
Monitoring Well:	MW-11	Date:	9/23/2015		
Field Personnel:	KKA	Weather:	Sunny, 70s F		

PRE-PURGE INFO:

Well Depth (ft btoc):	19.12	Depth to Water (ft btoc):	4.07
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	10-20
Pump Used:	QED 1.75" bladder	Depth of Pump (ft btoc):	~15

POST-PURGE INFO:

Color:	Dark purple	Mn/MnO4 (mg/L):	3/6
Volume Purged (gal):	NA	Sample ID:	MW-11
Final Depth to Water (ft btoc):	NA	Sample Time:	11:48

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C) Reading	pH (units) Reading	Conductivity (ms/cm) Reading	REDOX (Eh-mV) Reading	DO (mg/L) Reading	Turbidity (NTU) Reading	Depth to Water (ft) Reading	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
11:13	19.68	7.87	31.45	734.7	12.34	NA	4.20	26.33	200	Too dark purple to read turbidity
11:18	18.19	7.71	73.44	762.6	22.68	NA	5.58	50.71	200	
11:23	18.35	7.70	73.64	765.2	21.06	NA	5.68	50.84	100	Lower flow
11:28	19.56	7.69	73.73	765.7	20.14	NA	5.92	50.96	100	
11:33	19.39	7.68	73.22	766.9	22.25	NA	6.31	50.49	100	
11:38	19.47	7.66	72.17	767.1	21.80	NA	6.60	49.66	100	
11:43	19.55	7.66	71.19	768.3	22.47	NA	6.84	48.88	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__
Monitoring Well:	MW-13	Date:	9/23/2015	
Field Personnel:	KKA	Weather:	Sunny, 70s F	

PRE-PURGE INFO:

Well Depth (ft btoc):	13.81	Depth to Water (ft btoc):	3.89
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	5-15
Pump Used:	QED 1.75" bladder	Depth of Pump (ft btoc):	~10

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~3	Sample ID:	MW-13
Final Depth to Water (ft btoc):	5.72	Sample Time:	14:52

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C)	pH (units)	Conductivity (ms/cm)	REDOX (Eh-mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
14:07	19.65	7.65	5.833	411.7	4.58	35.8	5.09	3.18	300	
14:12	19.83	6.98	5.828	480.7	2.96	17.0	5.21	3.17	200	Lower flow
14:17	20.15	6.96	5.333	451.3	3.99	4.50	5.33	2.86	200	
14:22	20.13	6.97	5.116	447.4	4.64	2.83	5.37	2.75	200	
14:27	20.08	6.95	5.098	432.2	4.60	2.76	5.43	2.75	200	
14:32	20.04	6.94	5.145	425.7	4.49	2.50	5.51	2.78	200	
14:37	20.01	6.94	5.196	416.6	4.23	2.42	5.53	2.81	200	
14:42	19.99	6.94	5.170	411.2	4.09	2.26	5.56	2.78	200	
14:47	20.04	6.94	5.057	416.1	3.92	2.21	5.61	2.72	200	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__
Monitoring Well:	MW-16	Date:	9/23/2015	
Field Personnel:	SJT	Weather:	60s F, sunny, breezy	

PRE-PURGE INFO:

Well Depth (ft btoc):	14.11	Depth to Water (ft btoc):	3.32
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	5-15
Pump Used:	QED 1.75" Bladder	Depth of Pump (ft btoc):	~10

POST-PURGE INFO:

Color:	Dark purple	Mn/MnO4 (mg/L):	4/8
Volume Purged (gal):	~3.5	Sample ID:	MW-16
Final Depth to Water (ft btoc):	3.86	Sample Time:	12:09

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C)	pH (units)	Conductivity (ms/cm)	REDOX (Eh-mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
11:14	19.76	7.13	13.71	719.8	12.96	NA	3.58	7.64	200	Too dark purple to read turbidity
11:19	19.40	7.12	8.129	728.3	12.57	NA	3.81	4.38	200	
11:24	19.45	7.08	5.887	731.7	11.00	NA	3.86	3.17	200	
11:29	19.56	7.05	5.237	735.1	10.32	NA	3.92	2.82	200	
11:34	19.61	7.05	4.923	737.1	9.95	NA	3.96	2.65	200	
11:39	19.63	7.05	4.964	737.9	9.91	NA	4.00	2.66	200	
11:44	19.65	7.05	4.602	737.5	9.65	NA	4.00	2.47	200	
11:49	19.66	7.06	4.370	736.6	9.32	NA	4.00	2.34	200	
11:54	19.64	7.06	4.196	735.4	9.00	NA	4.00	2.25	200	
11:59	19.66	7.06	4.105	734.5	8.74	NA	4.01	2.18	200	
12:04	19.65	7.06	4.084	733.8	8.50	NA	4.01	2.17	200	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__
Monitoring Well:	MW-17	Date:	9/23/2015	
Field Personnel:	KKA	Weather:	Sunny, 60s F	

PRE-PURGE INFO:

Well Depth (ft btoc):	14.45	Depth to Water (ft btoc):	3.18
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	5-15
Pump Used:	QED 1.75" bladder	Depth of Pump (ft btoc):	~10

POST-PURGE INFO:

Color:	Dark purple	Mn/MnO4 (mg/L):	48/104
Volume Purged (gal):	~3	Sample ID:	MW-17
Final Depth to Water (ft btoc):	5.98	Sample Time:	10:19

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C)	pH (units)	Conductivity (ms/cm)	REDOX (Eh-mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
9:39	17.64	6.51	8.032	749.1	17.91	1164 AU	4.30	4.56	400	
9:44	18.98	7.14	7.422	739.6	14.84	1171 AU	5.56	4.10	400	Lower flow
9:49	18.87	7.18	7.525	742.5	14.24	861 AU	5.56	4.18	150	
9:54	18.71	7.22	7.476	744.4	17.30	NA	5.56	4.14	200	Too dark purple to read turbidity
9:59	18.68	7.23	7.313	747.3	17.87	NA	5.56	4.04	200	
10:04	18.71	7.23	7.186	748.2	17.69	NA	5.50	3.97	200	
10:09	18.70	7.24	7.026	749.1	17.23	NA	5.52	3.87	200	
10:14	18.72	7.24	6.985	749.9	16.94	NA	5.55	3.73	200	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name:	Dover-Binghamton	Project #:	5101.0003	Page: _1__ of _1__
Monitoring Well:	DMW-3	Date:	9/23/2015	
Field Personnel:	KKA	Weather:	Sunny, 70s F	

PRE-PURGE INFO:

Well Depth (ft btoc):	48.11	Depth to Water (ft btoc):	23.15
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	41-48
Pump Used:	QED 1.75" bladder	Depth of Pump (ft btoc):	~44

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~2	Sample ID:	DMW-3
Final Depth to Water (ft btoc):	34.88	Sample Time:	13:35

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C)	pH (units)	Conductivity (ms/cm)	REDOX (Eh-mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
12:40	18.84	11.56	3.219	243.1	72.59	6.17	23.18	1.74	100	
12:45	17.20	12.26	3.994	265.8	6.65	4.36	24.23	2.14	100	
12:50	16.77	12.10	4.112	250.2	5.82	4.19	25.38	2.20	100	
12:55	16.71	12.10	4.122	228.3	5.51	3.57	26.34	2.20	100	
13:00	16.76	12.14	4.138	189.0	5.48	4.05	27.36	2.21	100	
13:05	16.80	12.17	4.145	169.5	5.35	3.93	28.32	2.21	100	
13:10	16.81	12.21	4.135	143.2	5.23	4.03	29.21	2.21	100	
13:15	16.90	12.23	4.098	126.5	5.31	3.75	30.28	2.18	100	
13:20	16.84	12.25	4.041	117.1	5.29	3.81	31.04	2.15	100	
13:25	16.92	12.25	4.002	106.2	5.19	3.51	31.96	2.13	100	
13:30	16.90	12.26	3.997	106.8	5.01	3.48	32.77	2.10	100	

Appendix C

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Rd, Building 300, Suite 360
Rochester, NY 14623
T: 585-288-5380
F: 585-288-8475
www.alsglobal.com

March 31, 2015

Analytical Report for Service Request No: R1501980

Ms. Tammy Yuan
Verina Consulting Group, LLC
1011 US Highway 22, Suite 302
Bridgewater, NJ 08807

RECEIVED
APR - 2 2015

Laboratory Results for: Binghamton/5101.0003

Dear Ms. Yuan:

Enclosed are the results of the sample(s) submitted to our laboratory on March 20, 2015. For your reference, these analyses have been assigned our service request number **R1501980**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Janice Jaeger
Project Manager

PROOFED ITFS 4/7/15
Table March 2015 & Historical GW results
Figure

ALS Environmental

Client:	Verina Consulting Group
Service Request No.:	R1501980
Project:	Dover Binghamton
Date Received:	3/20/15
Sample Matrix:	Water
Project/Case No.:	

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

Water samples were received for analysis at ALS Environmental on 3/20/15. The samples were received in good condition and consistent with the accompanying chain of custody form. All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Volatile Organics

Water samples were analyzed for a site specific list of Volatiles by method 8260C from SW-846.

All initial and continuing calibration criteria were met for all analytes.

All Tuning criteria and Internal Standard Areas were within limits.

All LCS/LCSD recoveries and RPD's were acceptable.

Site specific QC was performed on MW-8 as requested. All MS/MSD recoveries and RPD's were acceptable.

All surrogate standard recoveries were within limits.

MP-5 was analyzed a dilution due to matrix interferences.

The Method blanks associated with these samples were free of contamination.

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 5101.0003	Batch Complete: Yes	Date Revised:
Submission: R1501980	Diskette Requested: No	Date Due: 4/10/15
Client: Verina Consulting Group, LLC	Date: 3/25/15	Protocol: SW846
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: Binghamton	Chain of Custody: Present/Absent:	SDG #:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1501980-001	TRIP BLANK	Water	8260C	3/18/15	3/20/15			
R1501980-002	MW-17	Water	8260C	3/18/15	3/20/15			
R1501980-003QC	MW-8	Water	8260C	3/18/15	3/20/15			
1501980-003.R01Q	MW-8	Water	8260C	3/18/15	3/20/15			
R1501980-004	MW-10	Water	8260C	3/18/15	3/20/15			
R1501980-005	FB-031815	Water	8260C	3/18/15	3/20/15			
R1501980-006	MW-16	Water	8260C	3/18/15	3/20/15			
R1501980-007	DUP031815	Water	8260C	3/18/15	3/20/15			
R1501980-008	MW-9	Water	8260C	3/19/15	3/20/15			
R1501980-009	FB-031915	Water	8260C	3/19/15	3/20/15			

3 3 3 3 3

Folder Comments:

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

NELAP Accredited	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Connecticut ID # PH0556	Nebraska Accredited	
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to
http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

24291

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name: Dover - Binghamton	Project Number: 5101.0003
Project Manager: Tammy Yuan	Report CC:
Company/Address: Verina Consulting Group, LLC 1011 U.S. Highway 22, Suite 302 Bridgewater, New Jersey 08807	
Phone #: 908 864 4400	Email: tyuan@vcg-llc.com
Sampler's Signature:	Sampler's Printed Name: Kevin Soldo

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1,3

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	SSPL VOC's	REMARKS/ ALTERNATE DESCRIPTION
Trip Blank	-	3/13/15	14:25	TB	3	X	
MW-17		3/18/15	13:10	GW	3	X	
MW-8 (MS&MSD)		3/18/15	13:55	GW	9	X	
MW-10		3/18/15	15:30	GW	3	X	
FB-031815	-	3/18/15	15:38	FB	3	X	Field Blank
MW-16		3/18/15	15:50	GW	3	X	
DUP-031815		3/18/15	—	GW	3	X	Duplicate sample
MW-9		3/19/15	11:20	GW	3	X	
FB-031915	-	3/19/15	11:40	FB	3	X	Field Blank

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other Sodium Thiosulfate

SPECIAL INSTRUCTIONS/COMMENTS

Metals SSPL VOC's: PCE, TCE, cis-1,2-dce, trans-1,2-dce, 1,1-dce, 1,1-dca 1,1,1-TCA and VC

* call if you have any questions

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS

____ RUSH (SURCHARGES APPLY)

____ 1 day ____ 2 day ____ 3 day

____ 4 day ____ 5 day

REQUESTED REPORT DATE: Standard

REPORT REQUIREMENTS

____ I. Results Only

X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

Edata X Yes ____ No

INVOICE INFORMATION

PO #:

BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Michael Fradkin	Printed Name: Gregg Lutz	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: Verina	Firm: ALS	Firm:	Firm:	Firm:	Firm:
Date/Time: 03/19/15 15:20	Date/Time: 3/20/15 0855	Date/Time:	Date/Time:	Date/Time:	Date/Time:

R1501980 5
Verina Consulting Group, LLC
Binghamton

Distribution: White - Lab Copy; Yellow - Return to Originator

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R1501980 5
Verina Consulting Group, LLC
Binghamton

Cooler Receipt and Preservation Check Form

Project/Client Verina Folder Number

Cooler received on 3/20/15 by: @ COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N
2	**Custody papers** properly completed (ink, signed)?	(Y) N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N
4	Circle: (**Wet Ice**) **Dry Ice** **Gel packs** present?	(Y) N

5a	**Perchlorate** samples have required headspace?	Y N (NA)
5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
6	Where did the bottles originate? (ALS/ROC) CLIENT	
7	Soil VOA received as: Bulk Encore 5035set (NA)	

8. Temperature Readings Date: 3/20/15 Time: 1025 ID: (IR#) IR#4 From: (Temp Blank) Sample Bottle

Observed Temp (°C)	1.0						
Correction Factor (°C)	+0.7						
Corrected Temp (°C)	1.7°						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by @ on 3/20/15 at 1026
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: JMS 3/20/15

Cooler Breakdown: Date: 3/20/15 Time: 1205 by: @

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	4114050	11/15				

**Not to be tested before analysis -- pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 4-258-004, 4-258-003
Other Comments:

PC Secondary Review: JMS 3/25/15 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15 1425
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 14:12
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1501980-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9968.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	3/23/15 14:12	
Dibromofluoromethane	98	89-119	3/23/15 14:12	
Toluene-d8	101	87-121	3/23/15 14:12	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15 1310
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 15:24
Sample Name:	MW-17	**Units:**	µg/L
Lab Code:	R1501980-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9971.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**1.4**	**J**	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**11**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**3.5**	J	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**5.8**		5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	3/23/15 15:24	
Dibromofluoromethane	99	89-119	3/23/15 15:24	
Toluene-d8	101	87-121	3/23/15 15:24	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15 1355
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 15:48
Sample Name:	MW-8	**Units:**	µg/L
Lab Code:	R1501980-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9972.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**4.4**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**6.6**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**6.4**		5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**0.75**	J	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	3/23/15 15:48	
Dibromofluoromethane	101	89-119	3/23/15 15:48	
Toluene-d8	102	87-121	3/23/15 15:48	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15 1530
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 16:16
Sample Name:	MW-10	**Units:**	µg/L
Lab Code:	R1501980-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9973.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**1.0**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**0.69**	J	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	**0.66**	J	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**6.2**		5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**2.1**	J	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	3/23/15 16:16	
Dibromofluoromethane	100	89-119	3/23/15 16:16	
Toluene-d8	101	87-121	3/23/15 16:16	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15 1538
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 14:36
Sample Name:	FB-031815	**Units:**	µg/L
Lab Code:	R1501980-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9969.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85-122	3/23/15 14:36	
Dibromofluoromethane	97	89-119	3/23/15 14:36	
Toluene-d8	99	87-121	3/23/15 14:36	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15 1550
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 16:36
Sample Name:	MW-16	**Units:**	µg/L
Lab Code:	R1501980-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9974.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**1.1**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**7.8**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**1.8**	J	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**7.1**		5.0	0.22	
75-01-4	Vinyl Chloride	**15**		5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**31**		5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	**0.35**	J	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	3/23/15 16:36	
Dibromofluoromethane	99	89-119	3/23/15 16:36	
Toluene-d8	102	87-121	3/23/15 16:36	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 17:00
Sample Name:	DUP031815	**Units:**	µg/L
Lab Code:	R1501980-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9975.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**1.6**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**12**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**4.6**	J	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**7.8**		5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	3/23/15 17:00	
Dibromofluoromethane	99	89-119	3/23/15 17:00	
Toluene-d8	100	87-121	3/23/15 17:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/19/15 1120
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 17:24
Sample Name:	MW-9	**Units:**	µg/L
Lab Code:	R1501980-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9976.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**13**		5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**0.92**	J	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	3/23/15 17:24	
Dibromofluoromethane	100	89-119	3/23/15 17:24	
Toluene-d8	102	87-121	3/23/15 17:24	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/19/15 1140
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 15:00
Sample Name:	FB-031915	**Units:**	µg/L
Lab Code:	R1501980-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9970.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	3/23/15 15:00	
Dibromofluoromethane	99	89-119	3/23/15 15:00	
Toluene-d8	103	87-121	3/23/15 15:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	3/23/15 10:31
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1502855-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9959.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	3/23/15 10:31	
Dibromofluoromethane	103	89-119	3/23/15 10:31	
Toluene-d8	103	87-121	3/23/15 10:31	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	3/23/15 10:31
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1502855-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9959.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	3/23/15 10:31	
Dibromofluoromethane	103	89-119	3/23/15 10:31	
Toluene-d8	103	87-121	3/23/15 10:31	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	3/25/15 11:53
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1502930-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437635
Data File Name:	I:\ACQUDATA\msvoa10\data\032515\A7189.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	3/25/15 11:53	
Dibromofluoromethane	101	89-119	3/25/15 11:53	
Toluene-d8	104	87-121	3/25/15 11:53	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1501980
Date Collected: 3/18/15
Date Received: 3/20/15
Date Analyzed: 3/25/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: MW-8
Lab Code: R1501980-003

Units: µg/L
Basis: NA

Analytical Method: 8260C

Analyte Name	Sample Result	MW-8MS Matrix Spike RQ1502930-05 Result	Spike Amount	% Rec	MW-8DMS Duplicate Matrix Spike RQ1502930-06 Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane (TCA)	4.4	51.9	50.0	95	53.3	50.0	98	74 - 127	3	30
1,1-Dichloroethane (1,1-DCA)	6.6	59.9	50.0	107	62.4	50.0	112	74 - 132	4	30
1,1-Dichloroethene (1,1-DCE)	ND	44.3	50.0	89	45.7	50.0	91	72 - 125	3	30
Tetrachloroethene (PCE)	ND	47.6	50.0	95	50.3	50.0	101	67 - 137	6	30
Trichloroethene (TCE)	6.4	54.3	50.0	96	55.5	50.0	98	62 - 142	2	30
Vinyl Chloride	ND	50.4	50.0	101	52.9	50.0	106	60 - 157	5	30
cis-1,2-Dichloroethene	0.75	46.1	50.0	91	46.8	50.0	92	72 - 133	2	30
trans-1,2-Dichloroethene	ND	45.8	50.0	92	46.4	50.0	93	77 - 125	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1501980
Date Analyzed: 3/23/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 437305

Analyte Name	Lab Control Sample RQ1502855-03 Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	19.2	20.0	96	71 - 123
1,1-Dichloroethane (1,1-DCA)	19.4	20.0	97	76 - 128
1,1-Dichloroethene (1,1-DCE)	17.7	20.0	89	74 - 135
Tetrachloroethene (PCE)	19.4	20.0	97	69 - 124
Trichloroethene (TCE)	19.1	20.0	95	76 - 123
Vinyl Chloride	18.8	20.0	94	69 - 136
cis-1,2-Dichloroethene	19.6	20.0	98	80 - 121
trans-1,2-Dichloroethene	19.0	20.0	95	78 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1501980
Date Analyzed: 3/23/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 437305

Lab Control Sample
RQ1502855-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	19.2	20.0	96	71 - 123
1,1-Dichloroethane (1,1-DCA)	19.4	20.0	97	76 - 128
1,1-Dichloroethene (1,1-DCE)	17.7	20.0	89	74 - 135
Tetrachloroethene (PCE)	19.4	20.0	97	69 - 124
Trichloroethene (TCE)	19.1	20.0	95	76 - 123
Vinyl Chloride	18.8	20.0	94	69 - 136
cis-1,2-Dichloroethene	19.6	20.0	98	80 - 121
trans-1,2-Dichloroethene	19.0	20.0	95	78 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1501980
Date Analyzed: 3/25/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 437635

Lab Control Sample
RQ1502930-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	19.0	20.0	95	71 - 123
1,1-Dichloroethane (1,1-DCA)	22.5	20.0	112	76 - 128
1,1-Dichloroethene (1,1-DCE)	18.4	20.0	92	74 - 135
Tetrachloroethene (PCE)	19.6	20.0	98	69 - 124
Trichloroethene (TCE)	19.1	20.0	95	76 - 123
Vinyl Chloride	21.0	20.0	105	69 - 136
cis-1,2-Dichloroethene	18.9	20.0	94	80 - 121
trans-1,2-Dichloroethene	18.5	20.0	93	78 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Rd, Building 300, Suite 360
Rochester, NY 14623
T: 585-288-5380
F: 585-288-8475
www.alsglobal.com

March 31, 2015

Analytical Report for Service Request No: R1501980

Ms. Tammy Yuan
Verina Consulting Group, LLC
1011 US Highway 22, Suite 302
Bridgewater, NJ 08807

Laboratory Results for: Binghamton/5101.0003

Dear Ms. Yuan:

Enclosed are the results of the sample(s) submitted to our laboratory on March 20, 2015. For your reference, these analyses have been assigned our service request number **R1501980.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ALS Environmental

SDG NARRATIVE

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

Client:	Verina Consulting Group
Service Request No.:	R1501980
Project:	Dover Binghamton
Date Received:	3/20/15
Sample Matrix:	Water
Project/Case No.:	

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

Water samples were received for analysis at ALS Environmental on 3/20/15. The samples were received in good condition and consistent with the accompanying chain of custody form. All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Volatile Organics

Water samples were analyzed for a site specific list of Volatiles by method 8260C from SW-846.

All initial and continuing calibration criteria were met for all analytes.

All Tuning criteria and Internal Standard Areas were within limits.

All LCS/LCSD recoveries and RPD's were acceptable.

Site specific QC was performed on MW-8 as requested. All MS/MSD recoveries and RPD's were acceptable.

All surrogate standard recoveries were within limits.

MP-5 was analyzed a dilution due to matrix interferences.

The Method blanks associated with these samples were free of contamination.

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 5101.0003	Batch Complete: Yes	Date Revised:	
Submission: R1501980	Diskette Requested: No	Date Due: 4/10/15	
Client: Verina Consulting Group, LLC	Date: 3/25/15	Protocol: SW846	
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:	
Project: Binghamton	Chain of Custody: Present/Absent:	SDG #:	

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1501980-001	TRIP BLANK	Water	8260C	3/18/15	3/20/15			
R1501980-002	MW-17	Water	8260C	3/18/15	3/20/15			
R1501980-003QC	MW-8	Water	8260C	3/18/15	3/20/15			
1501980-003.R01Q	MW-8	Water	8260C	3/18/15	3/20/15			
R1501980-004	MW-10	Water	8260C	3/18/15	3/20/15			
R1501980-005	FB-031815	Water	8260C	3/18/15	3/20/15			
R1501980-006	MW-16	Water	8260C	3/18/15	3/20/15			
R1501980-007	DUP031815	Water	8260C	3/18/15	3/20/15			
R1501980-008	MW-9	Water	8260C	3/19/15	3/20/15			
R1501980-009	FB-031915	Water	8260C	3/19/15	3/20/15			

Folder Comments:

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

NELAP Accredited	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Connecticut ID # PH0556	Nebraska Accredited	
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ALS Environmental

CHAINS OF CUSTODY

ALS Environmental - Rochester, NY
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

24291

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name: DOver - Binghamton	Project Number: 5101.0003
Project Manager: Tammy Yuan	Report CC:
Company/Address: Verina Consulting Group, LLC 1011 U.S. Highway 22, Suite 302 Bridgewater, New Jersey 08807	
Phone #: 908 864 4400	Email: tyuan@vcg-llc.com
Sampler's Signature:	Sampler's Printed Name: Kevin Soldo

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1,8

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	SSPL VOC's	REMARKS/ ALTERNATE DESCRIPTION
Trip Blank	-	3/13/15	14:25	TB	3	X	
MW-17		3/18/15	13:10	GW	3	X	
MW-8 (MS3MSD)		3/18/15	13:55	GW	9	X	
MW-10	-	3/18/15	15:30	GW	3	X	
FB-031815	-	3/18/15	15:38	FB	3	X	Field Blank
MW-16		3/18/15	15:50	GW	3	X	
DUP-031815		3/18/15	—	GW	3	X	Duplicate sample
MW-9		3/19/15	11:20	GW	3	X	
FB-031915	-	3/19/15	11:40	FB	3	X	Field Blank

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other Sodium Thiosulfate

SPECIAL INSTRUCTIONS/COMMENTS
Metals SSPL VOC's: PCE, TCE, cis-1,2-dce, trans-1,2-dce, 1,1-dce, 1,1-dca 1,1,1-TCA and VC
* call if you have any questions

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ___ 3 day
___ 4 day ___ 5 day
REQUESTED REPORT DATE: Standard

REPORT REQUIREMENTS
___ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata X Yes ___ No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	
Printed Name: Michael Franklin	Printed Name: Kevin Soldo	Printed Name	Printed Name	Printed Name	
Firm: Verina	Firm: ALS	Firm	Firm	Firm	
Date/Time: 03/19/15 15:20	Date/Time: 3/20/15 0955	Date/Time	Date/Time	Date/Time	

R1501980 5
Verina Consulting Group, LLC
Binghamton

Distribution: White - Lab Copy; Yellow - Return to Originator

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R1501980 5
Verina Consulting Group, LLC
Binghamton

Cooler Receipt and Preservation Check Form

Project/Client Verina Folder Number _____

Cooler received on 3/20/15 by: @ **COURIER:** ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (**Wet Ice**) **Dry Ice** **Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 3/20/15 Time: 1025 ID: (IR#) IR#4 From: (Temp Blank) Sample Bottle

Observed Temp (°C)	1.0						
Correction Factor (°C)	+0.7						
Corrected Temp (°C)	1.7°						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by @ on 3/20/15 at 1026
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: JMS 3/20/15

Cooler Breakdown: Date: 3/20/15 Time: 1305 by: @

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	4114050	11/15				

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 4-258-004, 4-258-003
Other Comments:

PC Secondary Review: JMS 3/25/15 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS ENVIRONMENTAL

Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1501980-001.01					
	8260C				
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
		3/23/15	1351	In Lab / BWOJTASIEWICZ	
		3/23/15	1356	R-001 / KRUEST	
R1501980-001.02					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-001.03					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-002.01					
	8260C				
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
		3/23/15	1351	In Lab / BWOJTASIEWICZ	
		3/23/15	1356	R-001 / KRUEST	
R1501980-002.02					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-002.03					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-003.01					
	8260C				
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-003.02					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-003.03					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-003.04					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-003.05					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1501980-003.06					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-003.07					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-003.08					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-003.09					
	8260C				
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
		3/23/15	1351	In Lab / BWOJTASIEWICZ	
		3/23/15	1356	R-001 / KRUEST	
		3/25/15	1005	In Lab / FNAEGLER	
		3/25/15	1555	R-001-S10 / FNAEGLER	
R1501980-004.01					
	8260C				
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
		3/23/15	1351	In Lab / BWOJTASIEWICZ	
		3/23/15	1356	R-001 / KRUEST	
R1501980-004.02					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-004.03					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-005.01					
	8260C				
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
		3/23/15	1351	In Lab / BWOJTASIEWICZ	
		3/23/15	1356	R-001 / KRUEST	
R1501980-005.02					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-005.03					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	

ALS ENVIRONMENTAL

Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1501980-006.01					
	8260C				
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
		3/23/15	1351	In Lab / BWOJTASIEWICZ	
		3/23/15	1356	R-001 / KRUEST	
R1501980-006.02					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-006.03					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-007.01					
	8260C				
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
		3/23/15	1351	In Lab / BWOJTASIEWICZ	
		3/23/15	1356	R-001 / KRUEST	
R1501980-007.02					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-007.03					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-008.01					
	8260C				
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
		3/23/15	1351	In Lab / BWOJTASIEWICZ	
		3/23/15	1356	R-001 / KRUEST	
R1501980-008.02					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-008.03					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-009.01					
	8260C				
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
		3/23/15	1351	In Lab / BWOJTASIEWICZ	
		3/23/15	1356	R-001 / KRUEST	

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1501980-009.02					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	
R1501980-009.03					
		3/20/15	1340	SMO / JSEWARD	
		3/20/15	1341	R-001 / JSEWARD	

ALS Environmental

VOLATILE ORGANICS QC SUMMARY

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/25/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name:	MW-8	**Units:**	µg/L
Lab Code:	R1501980-003	**Basis:**	NA

Analytical Method: 8260C

		MW-8MS Matrix Spike RQ1502930-05			MW-8DMS Duplicate Matrix Spike RQ1502930-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	4.4	51.9	50.0	95	53.3	50.0	98	74 - 127	3	30
1,1-Dichloroethane (1,1-DCA)	6.6	59.9	50.0	107	62.4	50.0	112	74 - 132	4	30
1,1-Dichloroethene (1,1-DCE)	ND	44.3	50.0	89	45.7	50.0	91	72 - 125	3	30
Tetrachloroethene (PCE)	ND	47.6	50.0	95	50.3	50.0	101	67 - 137	6	30
Trichloroethene (TCE)	6.4	54.3	50.0	96	55.5	50.0	98	62 - 142	2	30
Vinyl Chloride	ND	50.4	50.0	101	52.9	50.0	106	60 - 157	5	30
cis-1,2-Dichloroethene	0.75	46.1	50.0	91	46.8	50.0	92	72 - 133	2	30
trans-1,2-Dichloroethene	ND	45.8	50.0	92	46.4	50.0	93	77 - 125	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1501980
Date Analyzed: 3/23/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 437305

Analyte Name	Lab Control Sample RQ1502855-03 Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	19.2	20.0	96	71 - 123
1,1-Dichloroethane (1,1-DCA)	19.4	20.0	97	76 - 128
1,1-Dichloroethene (1,1-DCE)	17.7	20.0	89	74 - 135
Tetrachloroethene (PCE)	19.4	20.0	97	69 - 124
Trichloroethene (TCE)	19.1	20.0	95	76 - 123
Vinyl Chloride	18.8	20.0	94	69 - 136
cis-1,2-Dichloroethene	19.6	20.0	98	80 - 121
trans-1,2-Dichloroethene	19.0	20.0	95	78 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1501980
Date Analyzed: 3/23/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 437305

Lab Control Sample
RQ1502855-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	19.2	20.0	96	71 - 123
1,1-Dichloroethane (1,1-DCA)	19.4	20.0	97	76 - 128
1,1-Dichloroethene (1,1-DCE)	17.7	20.0	89	74 - 135
Tetrachloroethene (PCE)	19.4	20.0	97	69 - 124
Trichloroethene (TCE)	19.1	20.0	95	76 - 123
Vinyl Chloride	18.8	20.0	94	69 - 136
cis-1,2-Dichloroethene	19.6	20.0	98	80 - 121
trans-1,2-Dichloroethene	19.0	20.0	95	78 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1501980
Date Analyzed: 3/25/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 437635

Lab Control Sample
RQ1502930-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	19.0	20.0	95	71 - 123
1,1-Dichloroethane (1,1-DCA)	22.5	20.0	112	76 - 128
1,1-Dichloroethene (1,1-DCE)	18.4	20.0	92	74 - 135
Tetrachloroethene (PCE)	19.6	20.0	98	69 - 124
Trichloroethene (TCE)	19.1	20.0	95	76 - 123
Vinyl Chloride	21.0	20.0	105	69 - 136
cis-1,2-Dichloroethene	18.9	20.0	94	80 - 121
trans-1,2-Dichloroethene	18.5	20.0	93	78 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Analyzed:**	3/23/15 10:31
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name:	Method Blank	**Instrument ID:**	R-MS-14
Lab Code:	RQ1502855-04	**File ID:**	I:\ACQUDATA\MSVOA14\Data\032315\B9959.D\
Analytical Method:	8260C		

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1502855-03	I:\ACQUDATA\MSVOA14\Data\032315\B9957.D\	3/23/15 09:35
MW-17	R1501980-002	I:\ACQUDATA\MSVOA14\Data\032315\B9971.D\	3/23/15 15:24
MW-8	R1501980-003	I:\ACQUDATA\MSVOA14\Data\032315\B9972.D\	3/23/15 15:48
MW-16	R1501980-006	I:\ACQUDATA\MSVOA14\Data\032315\B9974.D\	3/23/15 16:36
DUP031815	R1501980-007	I:\ACQUDATA\MSVOA14\Data\032315\B9975.D\	3/23/15 17:00
MW-9	R1501980-008	I:\ACQUDATA\MSVOA14\Data\032315\B9976.D\	3/23/15 17:24

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Analyzed:**	3/23/15 10:31
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-14
Lab Code:	RQ1502855-04	**File ID:**	I:\ACQUDATA\MSVOA14\Data\032315\B9959.D\
Analytical Method:	8260C		

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1502855-03	I:\ACQUDATA\MSVOA14\Data\032315\B9957.D\	3/23/15 09:35
TRIP BLANK	R1501980-001	I:\ACQUDATA\MSVOA14\Data\032315\B9968.D\	3/23/15 14:12
FB-031815	R1501980-005	I:\ACQUDATA\MSVOA14\Data\032315\B9969.D\	3/23/15 14:36
FB-031915	R1501980-009	I:\ACQUDATA\MSVOA14\Data\032315\B9970.D\	3/23/15 15:00
MW-10	R1501980-004	I:\ACQUDATA\MSVOA14\Data\032315\B9973.D\	3/23/15 16:16

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1501980
Date Analyzed: 3/25/15 11:53

Method Blank Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: Method Blank
Lab Code: RQ1502930-01
Instrument ID: R-MS-10
File ID: I:\ACQUDATA\msvoa10\data\032515\A7189.D\

Analytical Method: 8260C

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1502930-02	I:\ACQUDATA\msvoa10\data\032515\A7187.D\	3/25/15 10:50
MW-8MS	RQ1502930-05	I:\ACQUDATA\msvoa10\data\032515\A7205.D\	3/25/15 19:46
MW-8DMS	RQ1502930-06	I:\ACQUDATA\msvoa10\data\032515\A7206.D\	3/25/15 20:15

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980
Date Analyzed: 03/16/15 16:51

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\031615\A6937.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	22.3	91421	Pass
75	95	30	60	48.6	198741	Pass
95	95	100	100	100.0	409184	Pass
96	95	5	9	6.6	26998	Pass
173	174	0	2	1.1	4090	Pass
174	95	50	120	87.9	359729	Pass
175	174	5	9	7.2	26027	Pass
176	174	95	101	95.2	342571	Pass
177	176	5	9	6.5	22435	Pass

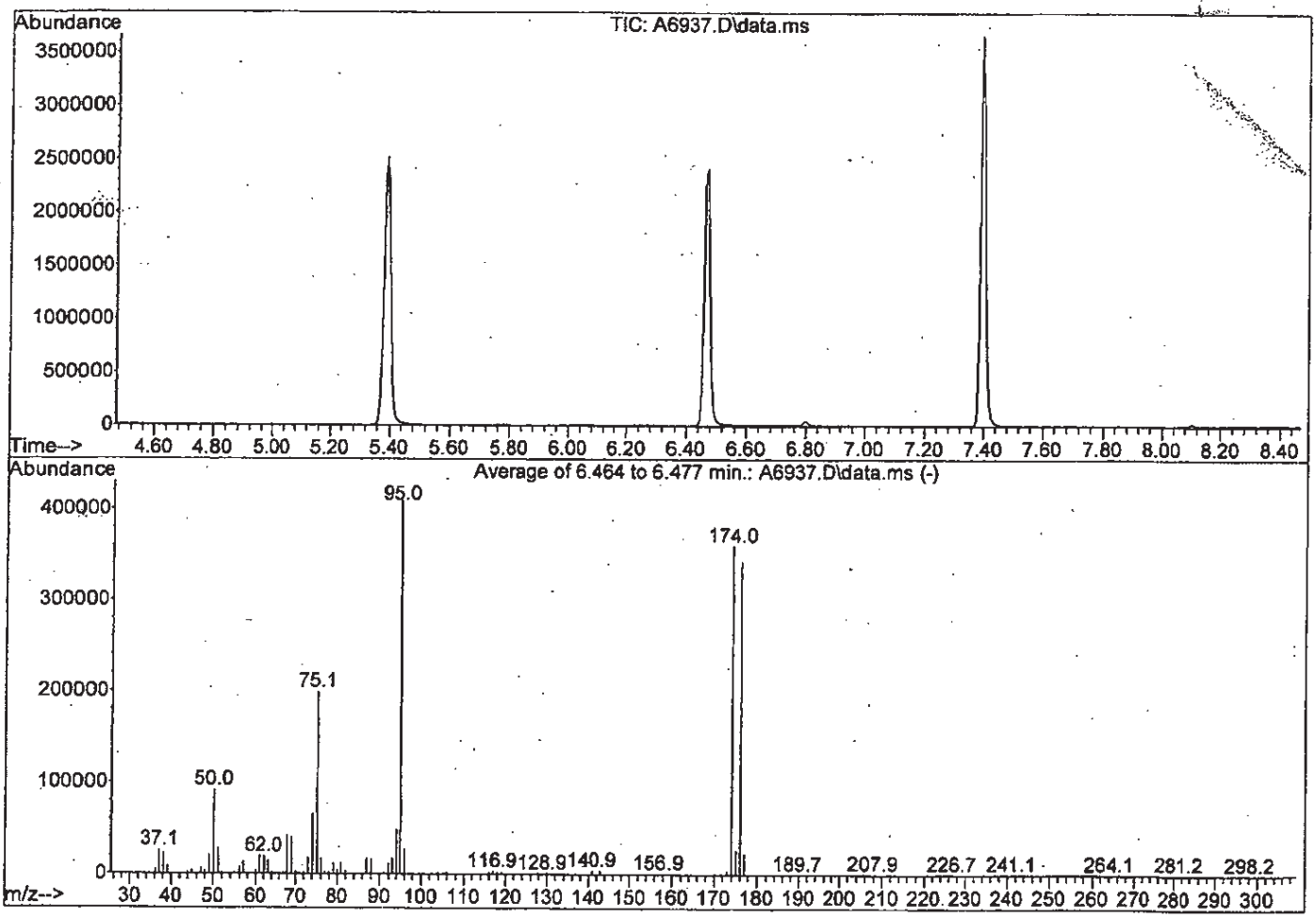
Sample Name	Lab Code	File ID	Date Analyzed	Q
Initial CalibrationICAL	0.5 ppb	I:\ACQUDATA\msvoa10\data\031615\A6939.D\	03/16/15 17:48	
Initial CalibrationICAL	1.0 ppb	I:\ACQUDATA\msvoa10\data\031615\A6940.D\	03/16/15 18:17	
Initial CalibrationICAL	2.0 ppb	I:\ACQUDATA\msvoa10\data\031615\A6941.D\	03/16/15 18:47	
Initial CalibrationICAL	5.0 ppb	I:\ACQUDATA\msvoa10\data\031615\A6942.D\	03/16/15 19:16	
Initial CalibrationICAL	20 ppb	I:\ACQUDATA\msvoa10\data\031615\A6943.D\	03/16/15 19:46	
Initial CalibrationICAL	50 ppb	I:\ACQUDATA\msvoa10\data\031615\A6944.D\	03/16/15 20:15	
Initial CalibrationICAL	100 ppb	I:\ACQUDATA\msvoa10\data\031615\A6945.D\	03/16/15 20:45	
Initial CalibrationICAL	150 ppb	I:\ACQUDATA\msvoa10\data\031615\A6946.D\	03/16/15 21:15	
Initial CalibrationICAL	200 ppb	I:\ACQUDATA\msvoa10\data\031615\A6947.D\	03/16/15 21:44	

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6937.D
Acq On : 16 Mar 2015 4:51 pm
Operator : F. NAEGLER
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

FD 3/17/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T031615.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 390, 391, 392; Background Corrected with Scan 383

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	91421	PASS
75	95	30	60	48.6	198741	PASS
95	95	100	100	100.0	409184	PASS
96	95	5	9	6.6	26998	PASS
173	174	0.00	2	1.1	4090	PASS
174	95	50	120	87.9	359729	PASS
175	174	5	9	7.2	26027	PASS
176	174	95	101	95.2	342571	PASS
177	176	5	9	6.5	22435	PASS

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980
Date Analyzed: 03/20/15 15:23

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa14\data\032015\B9937.D\
Instrument ID: R-MS-14

Analytical Method: 8260C
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.7	17012	Pass
75	95	30	60	51.1	46381	Pass
95	95	100	100	100.0	90792	Pass
96	95	5	9	6.8	6155	Pass
173	174	0	2	0.3	174	Pass
174	95	50	120	71.0	64424	Pass
175	174	5	9	8.0	5168	Pass
176	174	95	101	97.8	62998	Pass
177	176	5	9	6.6	4173	Pass

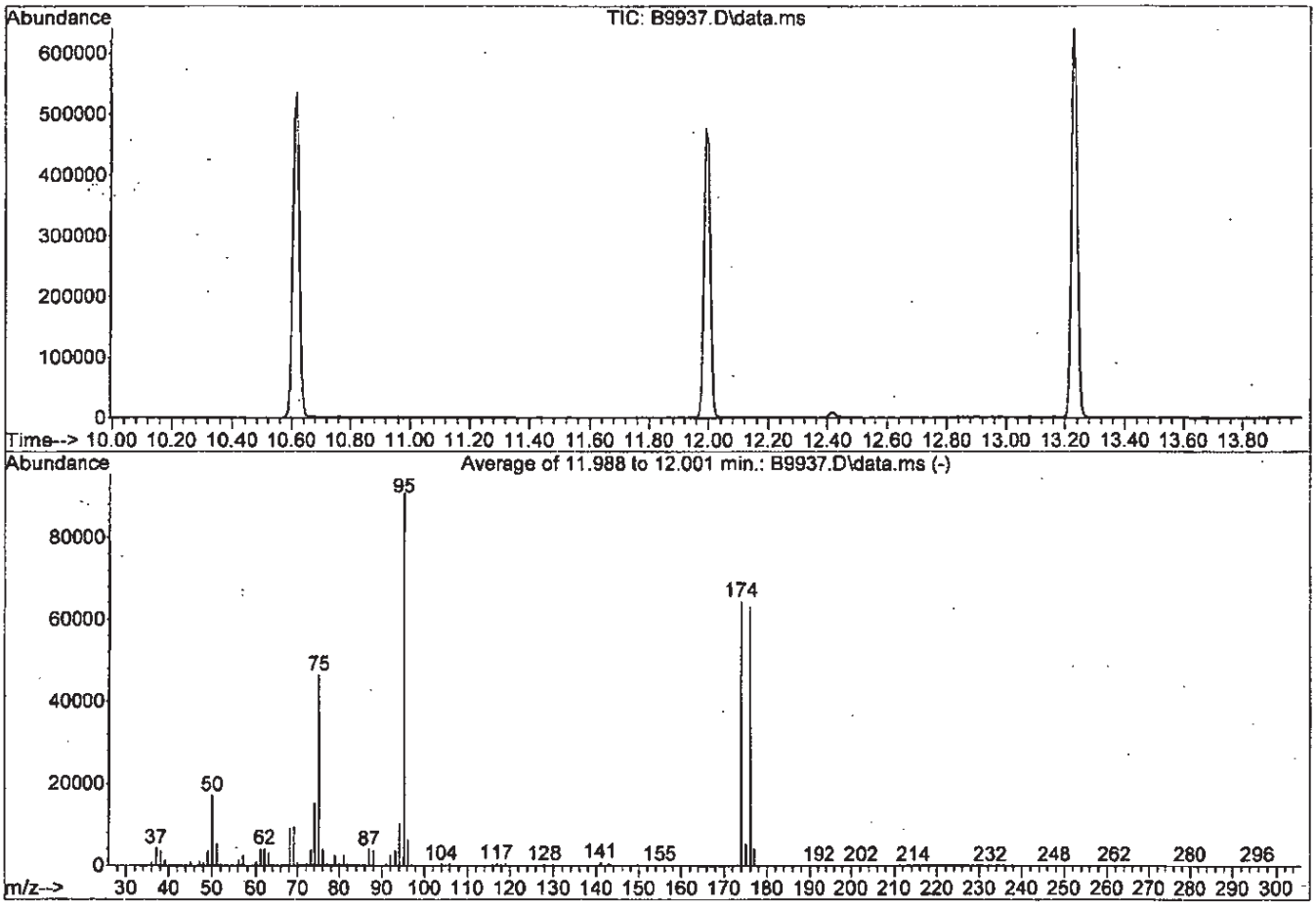
Sample Name	Lab Code	File ID	Date Analyzed	Q
Initial CalibrationICAL	0.5 ppb	I:\ACQUDATA\msvoa14\data\032015\B9939.D\	03/20/15 16:11	
Initial CalibrationICAL	1.0 ppb	I:\ACQUDATA\msvoa14\data\032015\B9940.D\	03/20/15 16:35	
Initial CalibrationICAL	2.0 ppb	I:\ACQUDATA\msvoa14\data\032015\B9941.D\	03/20/15 16:59	
Initial CalibrationICAL	5.0 ppb	I:\ACQUDATA\msvoa14\data\032015\B9942.D\	03/20/15 17:23	
Initial CalibrationICAL	20 ppb	I:\ACQUDATA\msvoa14\data\032015\B9943.D\	03/20/15 17:47	
Initial CalibrationICAL	50 ppb	I:\ACQUDATA\msvoa14\data\032015\B9944.D\	03/20/15 18:11	
Initial CalibrationICAL	100 ppb	I:\ACQUDATA\msvoa14\data\032015\B9945.D\	03/20/15 18:35	
Initial CalibrationICAL	150 ppb	I:\ACQUDATA\msvoa14\data\032015\B9946.D\	03/20/15 18:59	
Initial CalibrationICAL	200 ppb	I:\ACQUDATA\msvoa14\data\032015\B9947.D\	03/20/15 19:23	

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9937.D
Acq On : 20 Mar 2015 3:23 pm
Operator : B WOJTASIEWICZ
Sample : TUNE Inst : MSVOA14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: CPD4.P

BW 03/24/15

Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Mon Mar 23 08:17:51 2015



AutoFind: Scans 1821, 1822, 1823; Background Corrected with Scan 1815

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	17012	PASS
75	95	30	60	51.1	46381	PASS
95	95	100	100	100.0	90792	PASS
96	95	5	9	6.8	6155	PASS
173	174	0.00	2	0.3	174	PASS
174	95	50	120	71.0	64424	PASS
175	174	5	9	8.0	5168	PASS
176	174	95	101	97.8	62998	PASS
177	176	5	9	6.6	4173	PASS

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980
Date Analyzed: 3/23/15 07:21

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\Data\032315\B9954.D\
Instrument ID: R-MS-14

Analytical Method: 8260C
Analysis Lot: 437305

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.95	16135	Pass
75	95	30	60	50.19	42741	Pass
95	95	100	100	100.00	85163	Pass
96	95	5	9	6.84	5821	Pass
173	174	0	2	0.26	159	Pass
174	95	50	120	70.71	60219	Pass
175	174	5	9	7.67	4616	Pass
176	174	95	101	96.53	58131	Pass
177	176	5	9	6.85	3983	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1502855-02	I:\ACQUDATA\MSVOA14\Data\032315\B9956.D\	3/23/15 08:51	
Lab Control Sample	RQ1502855-03	I:\ACQUDATA\MSVOA14\Data\032315\B9957.D\	3/23/15 09:35	
Method Blank	RQ1502855-04	I:\ACQUDATA\MSVOA14\Data\032315\B9959.D\	3/23/15 10:31	
MW-17	R1501980-002	I:\ACQUDATA\MSVOA14\Data\032315\B9971.D\	3/23/15 15:24	
MW-8	R1501980-003	I:\ACQUDATA\MSVOA14\Data\032315\B9972.D\	3/23/15 15:48	
MW-16	R1501980-006	I:\ACQUDATA\MSVOA14\Data\032315\B9974.D\	3/23/15 16:36	
DUP031815	R1501980-007	I:\ACQUDATA\MSVOA14\Data\032315\B9975.D\	3/23/15 17:00	
MW-9	R1501980-008	I:\ACQUDATA\MSVOA14\Data\032315\B9976.D\	3/23/15 17:24	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980
Date Analyzed: 3/23/15 07:21

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\032315\B9954.D\
Instrument ID: R-MS-14

Analytical Method: 8260C
Analysis Lot: 437305

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.95	16135	Pass
75	95	30	60	50.19	42741	Pass
95	95	100	100	100.00	85163	Pass
96	95	5	9	6.84	5821	Pass
173	174	0	2	0.26	159	Pass
174	95	50	120	70.71	60219	Pass
175	174	5	9	7.67	4616	Pass
176	174	95	101	96.53	58131	Pass
177	176	5	9	6.85	3983	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1502855-02	I:\ACQUDATA\MSVOA14\Data\032315\B9956.D\	3/23/15 08:51	
Lab Control Sample	RQ1502855-03	I:\ACQUDATA\MSVOA14\Data\032315\B9957.D\	3/23/15 09:35	
Method Blank	RQ1502855-04	I:\ACQUDATA\MSVOA14\Data\032315\B9959.D\	3/23/15 10:31	
TRIP BLANK	R1501980-001	I:\ACQUDATA\MSVOA14\Data\032315\B9968.D\	3/23/15 14:12	
FB-031815	R1501980-005	I:\ACQUDATA\MSVOA14\Data\032315\B9969.D\	3/23/15 14:36	
FB-031915	R1501980-009	I:\ACQUDATA\MSVOA14\Data\032315\B9970.D\	3/23/15 15:00	
MW-10	R1501980-004	I:\ACQUDATA\MSVOA14\Data\032315\B9973.D\	3/23/15 16:16	

BFB

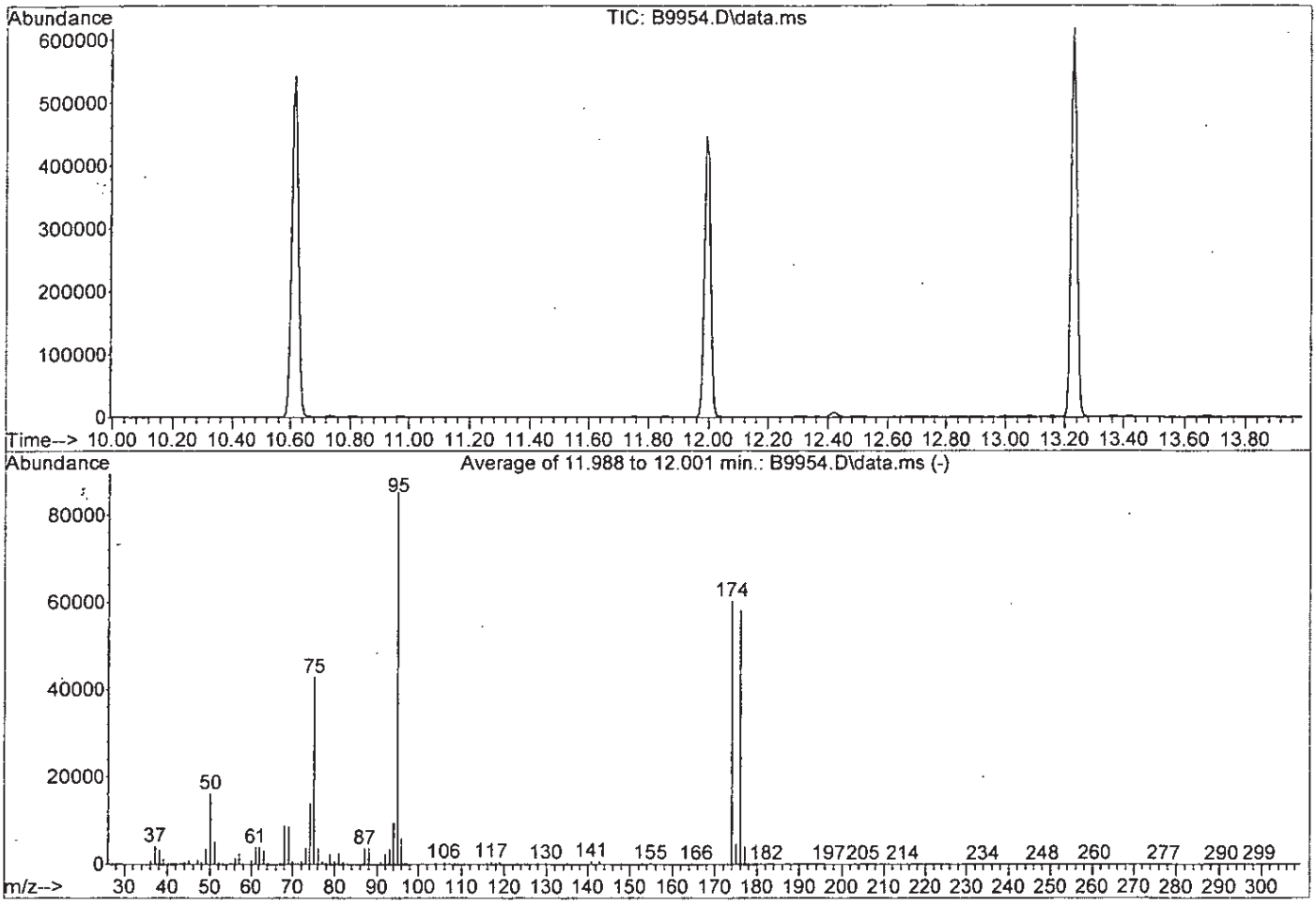
Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9954.D
Acq On : 23 Mar 2015 7:21 am
Operator : B WOJTASIEWICZ
Sample : TUNE Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

RQ1502855-01

BLV 03/25/15

Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Mon Mar 23 08:17:51 2015



AutoFind: Scans 1821, 1822, 1823; Background Corrected with Scan 1815

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	16135	PASS
75	95	30	60	50.2	42741	PASS
95	95	100	100	100.0	85163	PASS
96	95	5	9	6.8	5821	PASS
173	174	0.00	2	0.3	159	PASS
174	95	50	120	70.7	60219	PASS
175	174	5	9	7.7	4616	PASS
176	174	95	101	96.5	58131	PASS
177	176	5	9	6.9	3983	PASS

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980
Date Analyzed: 3/25/15 09:48

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\msvoa10\data\032515\A7185.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 437635

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	24.81	108112	Pass
75	95	30	60	50.35	219456	Pass
95	95	100	100	100.00	435840	Pass
96	95	5	9	6.11	26640	Pass
173	174	0	2	1.10	4321	Pass
174	95	50	120	90.48	394368	Pass
175	174	5	9	7.69	30328	Pass
176	174	95	101	99.92	394048	Pass
177	176	5	9	6.24	24584	Pass

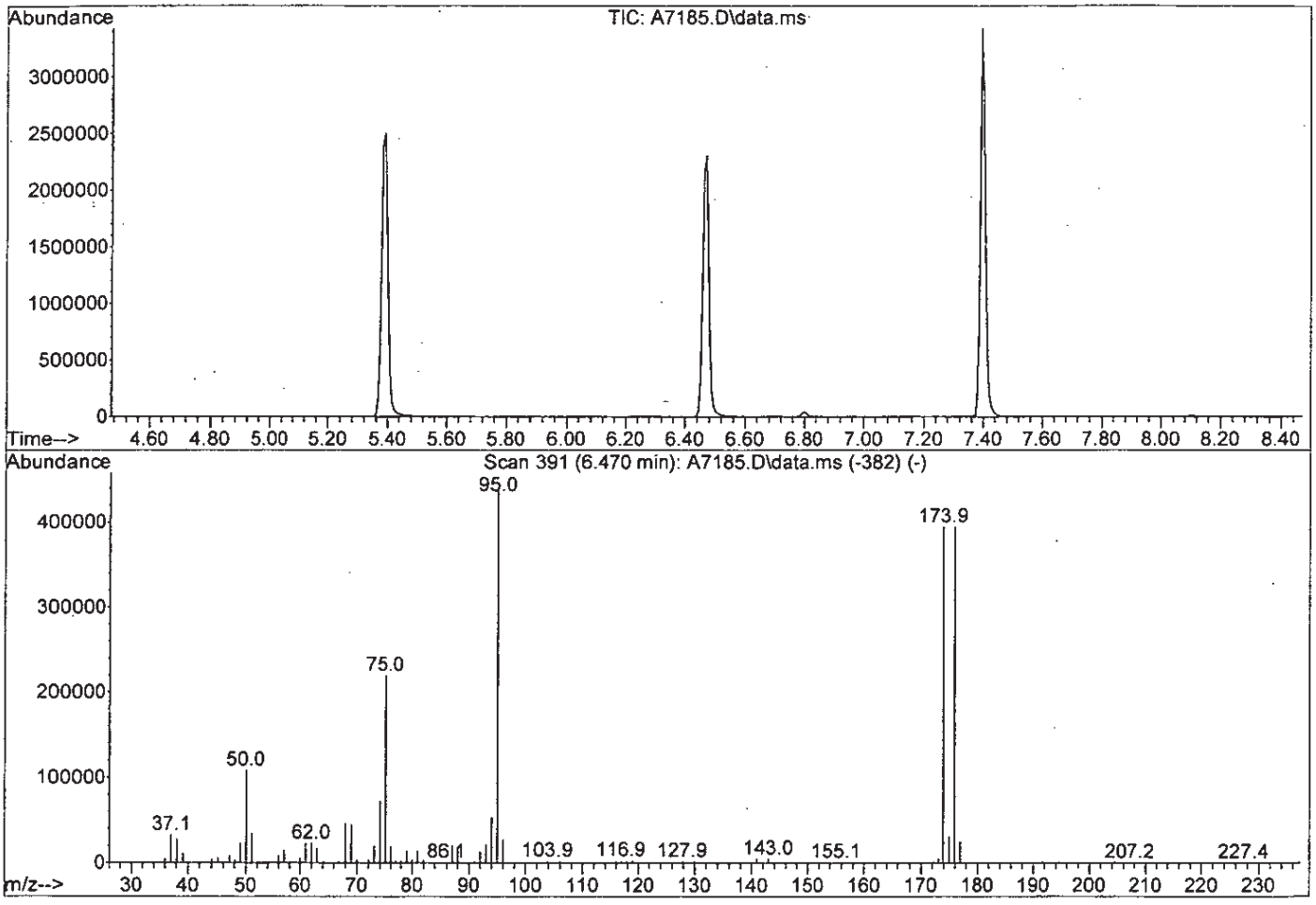
Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1502930-04	I:\ACQUDATA\msvoa10\data\032515\A7186.D\	3/25/15 10:21	
Lab Control Sample	RQ1502930-02	I:\ACQUDATA\msvoa10\data\032515\A7187.D\	3/25/15 10:50	
Method Blank	RQ1502930-01	I:\ACQUDATA\msvoa10\data\032515\A7189.D\	3/25/15 11:53	
MW-8MS	RQ1502930-05	I:\ACQUDATA\msvoa10\data\032515\A7205.D\	3/25/15 19:46	
MW-8DMS	RQ1502930-06	I:\ACQUDATA\msvoa10\data\032515\A7206.D\	3/25/15 20:15	

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7185.D
Acq On : 25 Mar 2015 9:48 am
Operator : F. NAEGLER
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

FW 3/25/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T031615.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



Spectrum Information: Scan 391

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.8	108112	PASS
75	95	30	60	50.4	219456	PASS
95	95	100	100	100.0	435840	PASS
96	95	5	9	6.1	26640	PASS
173	174	0.00	2	1.1	4321	PASS
174	95	50	120	90.5	394368	PASS
175	174	5	9	7.7	30328	PASS
176	174	95	101	99.9	394048	PASS
177	176	5	9	6.2	24584	PASS

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980
Date Analyzed: 3/23/15 08:51

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\032315\B9956.D\
Instrument ID: R-MS-14
Analytical Method: 8260C

Lab Code: RQ1502855-02
Analysis Lot: 437305
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	132,645	13.23	308,976	5.89	278,732	10.62
	Upper Limit ==>	265,290	13.73	617,952	6.39	557,464	11.12
	Lower Limit ==>	66,323	12.73	154,488	5.39	139,366	10.12
	ICAL Result ==>	117,925	13.23	270,124	5.89	240,425	10.62
Associated Analyses							
Lab Control Sample	RQ1502855-03	126,254	13.23	299,110	5.89	265,294	10.62
Method Blank	RQ1502855-04	118,540	13.23	279,680	5.89	246,749	10.62
TRIP BLANK	R1501980-001	110,684	13.24	263,473	5.89	230,548	10.62
FB-031815	R1501980-005	111,517	13.24	266,598	5.89	232,027	10.62
FB-031915	R1501980-009	109,149	13.24	255,396	5.89	226,435	10.62
MW-10	R1501980-004	115,844	13.24	274,172	5.89	245,583	10.62

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980
Date Analyzed: 3/23/15 08:51

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\032315\B9956.D\
Instrument ID: R-MS-14
Analytical Method: 8260C

Lab Code: RQ1502855-02
Analysis Lot: 437305
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	186,654	4.49
	Upper Limit ==>	373,308	4.99
	Lower Limit ==>	93,327	3.99
	ICAL Result ==>	161,692	4.50
Associated Analyses			
Lab Control Sample	RQ1502855-03	179,370	4.49
Method Blank	RQ1502855-04	169,349	4.50
TRIP BLANK	R1501980-001	156,415	4.49
FB-031815	R1501980-005	161,096	4.49
FB-031915	R1501980-009	153,014	4.49
MW-10	R1501980-004	165,449	4.48

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980
Date Analyzed: 3/23/15 08:51

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\Data\032315\B9956.D\
Instrument ID: R-MS-14
Analytical Method: 8260C

Lab Code: RQ1502855-02
Analysis Lot: 437305
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	132,645	13.23	308,976	5.89	278,732	10.62
	Upper Limit ==>	265,290	13.73	617,952	6.39	557,464	11.12
	Lower Limit ==>	66,323	12.73	154,488	5.39	139,366	10.12
	ICAL Result ==>	117,925	13.23	270,124	5.89	240,425	10.62
Associated Analyses							
Lab Control Sample	RQ1502855-03	126,254	13.23	299,110	5.89	265,294	10.62
Method Blank	RQ1502855-04	118,540	13.23	279,680	5.89	246,749	10.62
MW-17	R1501980-002	110,140	13.24	262,888	5.89	232,166	10.62
MW-8	R1501980-003	110,813	13.24	260,995	5.89	234,529	10.62
MW-16	R1501980-006	110,376	13.24	259,978	5.89	232,335	10.62
DUP031815	R1501980-007	116,543	13.24	278,052	5.89	245,859	10.62
MW-9	R1501980-008	117,303	13.24	273,851	5.89	244,186	10.62

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980
Date Analyzed: 3/23/15 08:51

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\Data\032315\B9956.D\
Instrument ID: R-MS-14
Analytical Method: 8260C

Lab Code: RQ1502855-02
Analysis Lot: 437305
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	186,654	4.49
	Upper Limit ==>	373,308	4.99
	Lower Limit ==>	93,327	3.99
	ICAL Result ==>	161,692	4.50
Associated Analyses			
Lab Control Sample	RQ1502855-03	179,370	4.49
Method Blank	RQ1502855-04	169,349	4.50
MW-17	R1501980-002	156,296	4.49
MW-8	R1501980-003	157,438	4.49
MW-16	R1501980-006	155,056	4.49
DUP031815	R1501980-007	167,100	4.49
MW-9	R1501980-008	163,487	4.48

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980
Date Analyzed: 3/25/15 10:21

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\msvoa10\data\032515\A7186.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1502930-04
Analysis Lot: 437635
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	687,456	11.66	1,193,182	6.15	1,149,711	9.58
	Upper Limit ==>	1,374,912	12.16	2,386,364	6.65	2,299,422	10.08
	Lower Limit ==>	343,728	11.16	596,591	5.65	574,856	9.08
	ICAL Result ==>	758,313	11.66	1,265,098	6.15	1,260,206	9.58
Associated Analyses							
Lab Control Sample	RQ1502930-02	668,627	11.66	1,198,095	6.15	1,147,144	9.58
Method Blank	RQ1502930-01	652,773	11.66	1,165,447	6.15	1,115,030	9.58
MW-8MS	RQ1502930-05	684,013	11.66	1,218,605	6.15	1,170,163	9.58
MW-8DMS	RQ1502930-06	689,190	11.66	1,227,438	6.15	1,173,922	9.58

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980
Date Analyzed: 3/25/15 10:21

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\msvoa10\data\032515\A7186.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1502930-04
Analysis Lot: 437635
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	827,510	4.96
	Upper Limit ==>	1,655,020	5.46
	Lower Limit ==>	413,755	4.46
	ICAL Result ==>	857,497	4.97
Associated Analyses			
Lab Control Sample	RQ1502930-02	812,564	4.97
Method Blank	RQ1502930-01	803,669	4.97
MW-8MS	RQ1502930-05	823,905	4.97
MW-8DMS	RQ1502930-06	850,113	4.97

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Environmental

VOLATILE ORGANICS SAMPLE DATA

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1501980
Date Collected: 3/18/15 1425
Date Received: 3/20/15
Date Analyzed: 3/23/15 14:12

Sample Name: TRIP BLANK
Lab Code: R1501980-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA14\Data\032315\B9968.D\

Analysis Lot: 437305
Instrument Name: R-MS-14
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	3/23/15 14:12	
Dibromofluoromethane	98	89-119	3/23/15 14:12	
Toluene-d8	101	87-121	3/23/15 14:12	

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9968.D
Acq On : 23 Mar 2015 2:12 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-001|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 25 06:21:56 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

JV 03/25/15

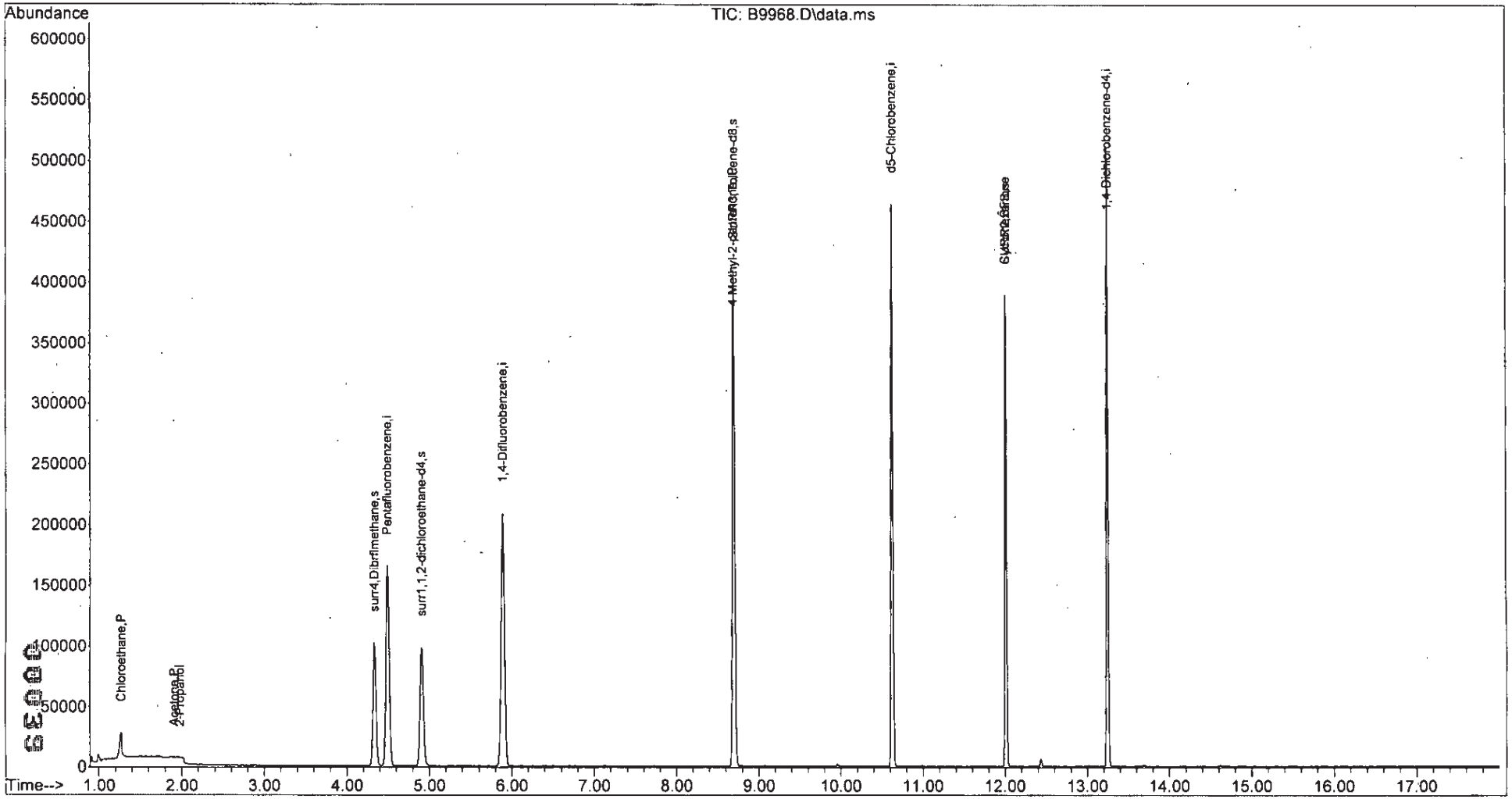
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.490	168	156415	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.892	114	263473	50.00	ug/L		0.00
71) d5-Chlorobenzene	10.623	117	230548	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	13.244	152	110684	50.00	ug/L		0.01
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.331	113	78743	49.04	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 98.08%				
48) surr1,1,2-dichloroetha...	4.904	65	102151	50.72	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.44%				
65) SURR3,Toluene-d8	8.696	98	305860	50.55	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.10%				
70) SURR2,BFB	12.007	95	117081	49.16	ug/L		0.01
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.32%				
Target Compounds							Qvalue
~~7) Chloroethane~~	1.265	64	11413	9.19	ug/L	#	51
16) Acetone	1.905	43	559	0.71	ug/L	#	77
17) 2-Propanol	~~1.972~~	~~45~~	203	1.13	ug/L	#	1
64) 4-Methyl-2-pentanone	8.690	43	~~822~~	~~0.38~~	ug/L	#	1
89) Cyclohexanone	12.007	55	351	2.27	ug/L	#	~~25~~

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9968.D
Acq On : 23 Mar 2015 2:12 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-001|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 25 06:21:56 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15 1310
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 15:24
Sample Name:	MW-17	**Units:**	µg/L
Lab Code:	R1501980-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9971.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**1.4**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**11**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**3.5**	J	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**5.8**		5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	3/23/15 15:24	
Dibromofluoromethane	99	89-119	3/23/15 15:24	
Toluene-d8	101	87-121	3/23/15 15:24	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9971.D
Acq On : 23 Mar 2015 3:24 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-002|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 25 10:31:36 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

AV 032515

FV 3/26/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	156296	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.886	114	262888	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.623	117	232166	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.244	152	110140	50.00	ug/L	0.01
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.325	113	79380	49.55	ug/L	-0.01
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.10%			
48) surr1,1,2-dichloroetha...	4.898	65	103176	51.35	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.70%			
65) SURR3,Toluene-d8	8.696	98	306013	50.68	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.36%			
70) SURR2,BFB	12.006	95	117664	49.51	ug/L	0.01
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.02%			
Target Compounds						Qvalue
7) Chloroethane	1.350	64	115059	92.77	ug/L	99
11) Freon 123a	1.710	67	4737	2.33	ug/L	94
15) Freon 113	1.862	101	428	0.30	ug/L	87
16) Acetone	1.905	43	27884	35.61	ug/L	97
17) 2-Propanol	2.033	45	1146	6.40	ug/L #	33
24) TBA	2.374	59	1120	3.90	ug/L	64
28) 1,1-Diclethane	2.886	63	32200	11.43	ug/L	98
34) cis-1,2-Dichloroethene	3.587	96	10647	5.75	ug/L	86
35) 2-Butanone	3.648	43	8870	8.01	ug/L	97
41) 1,1,1-Trichloroethane	4.325	97	3646	1.44	ug/L	89
54) Trichloroethene	6.367	130	6038	3.52	ug/L	89
64) 4-Methyl-2-pentanone	8.635	43	1509	0.71	ug/L	97
66) Toluene	8.788	91	2624	0.36	ug/L	89
73) 2-Hexanone	9.836	43	2999	1.90	ug/L	97

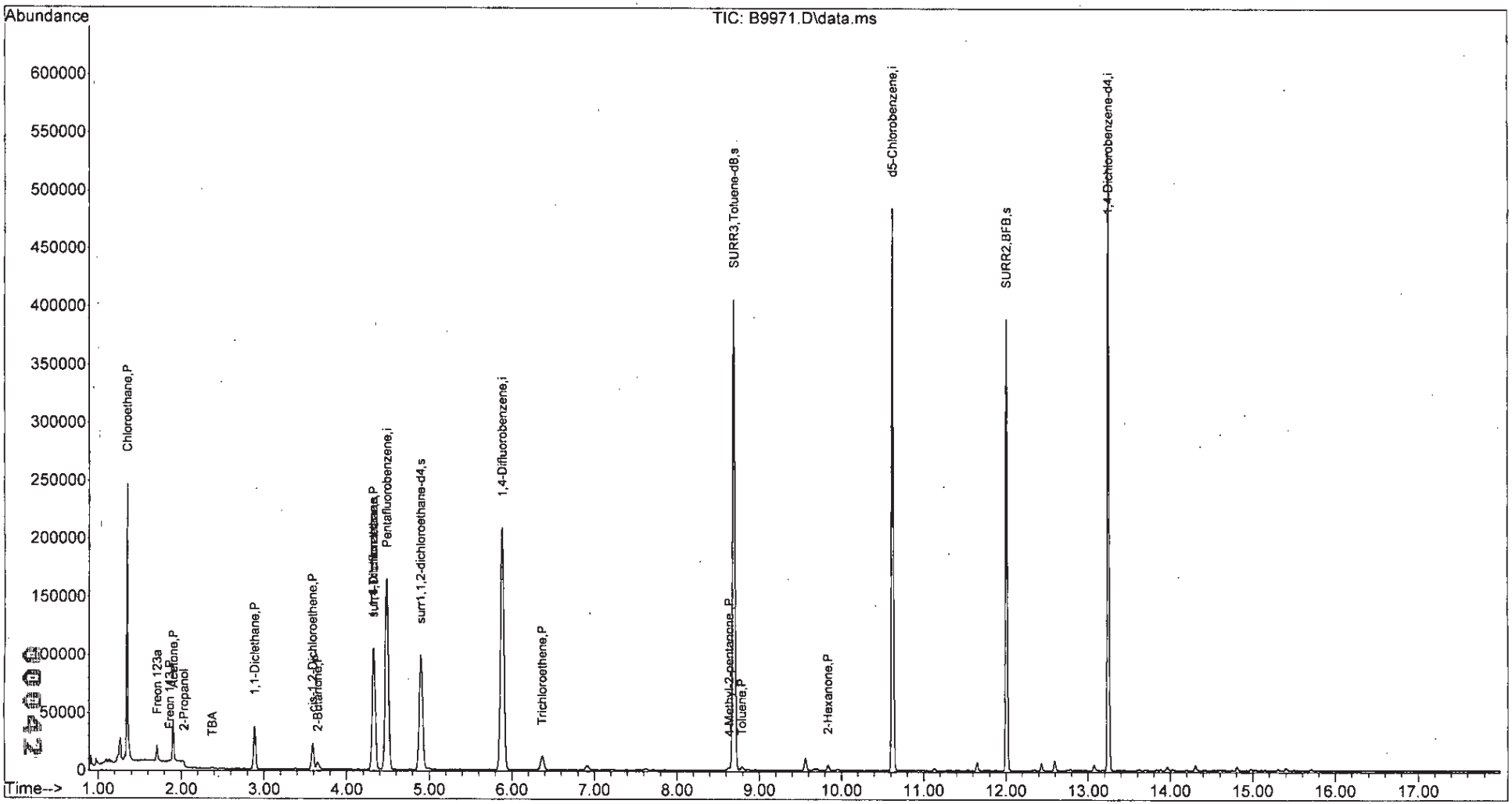
49) Benzene - NT, SA/MA

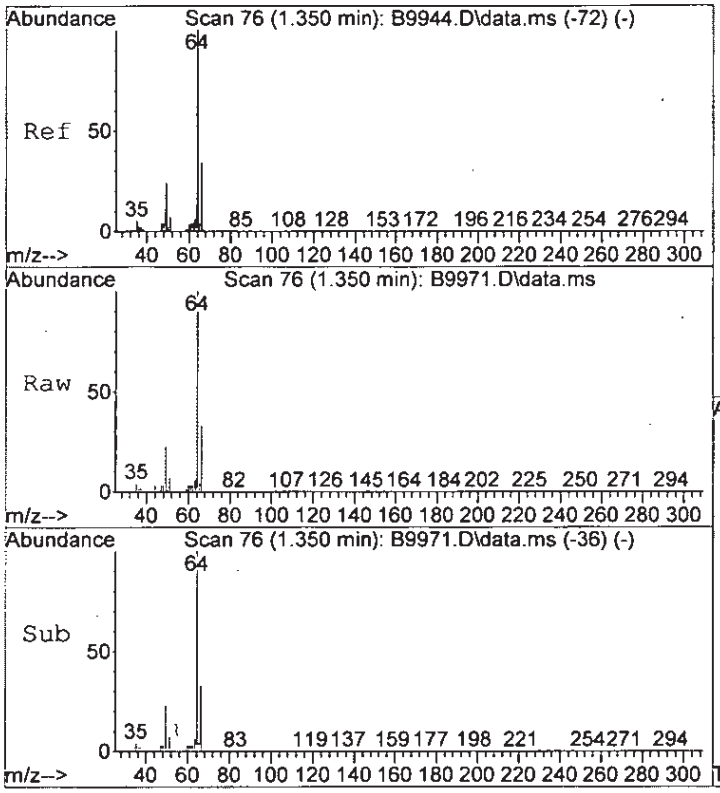
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9971.D
Acq On : 23 Mar 2015 3:24 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-002|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 25 10:31:36 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

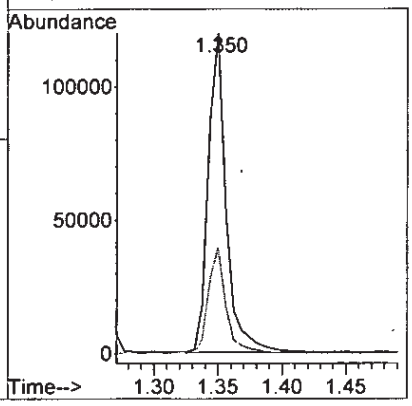


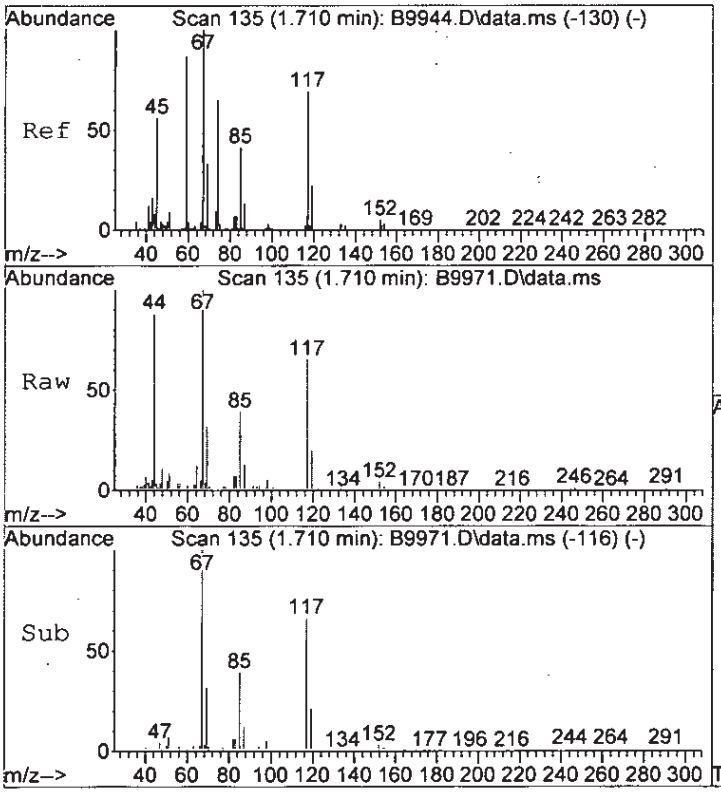


#7
Chloroethane
Concen: 92.77 ug/L
RT: 1.350 min Scan# 76
Delta R.T. -0.000 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion: 64 Resp: 115059

Ion	Ratio	Lower	Upper
64	100		
66	33.1	13.6	53.6

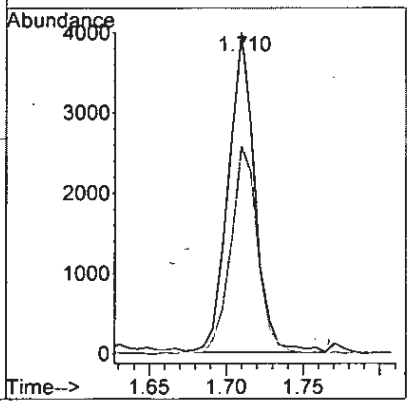


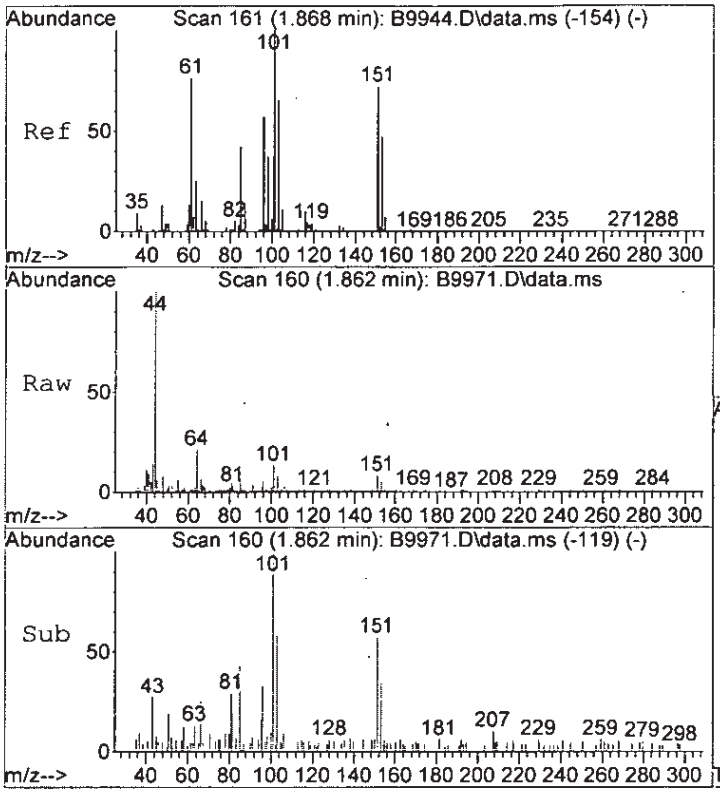


#11
Freon 123a
Concen: 2.33 ug/L
RT: 1.710 min Scan# 135
Delta R.T. -0.000 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion: 67 Resp: 4737

Ion	Ratio	Lower	Upper
67	100		
117	64.7	49.5	89.5

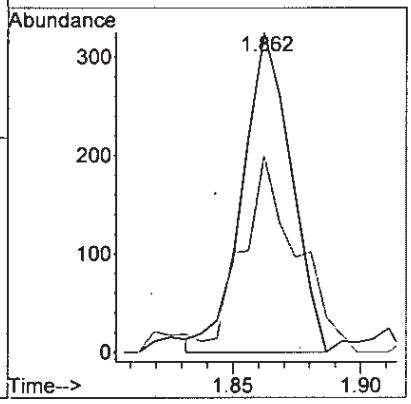


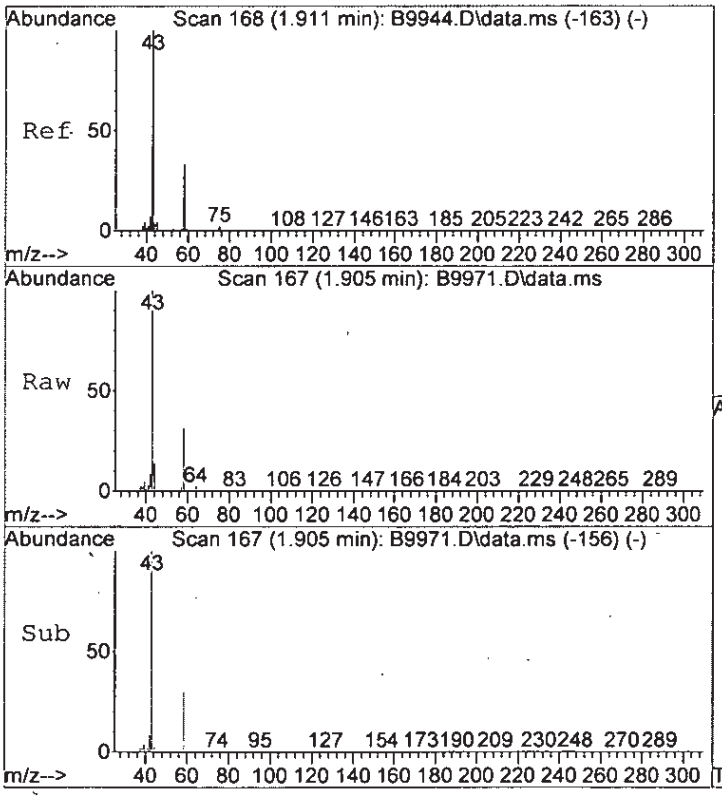


#15
Freon 113
Concen: 0.30 ug/L
RT: 1.862 min Scan# 160
Delta R.T. -0.006 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion:101 Resp: 428

Ion	Ratio	Lower	Upper
101	100		
151	61.5	52.3	92.3

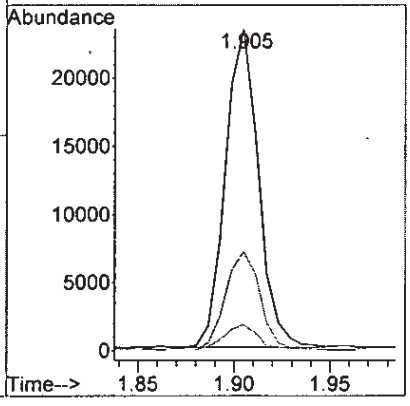


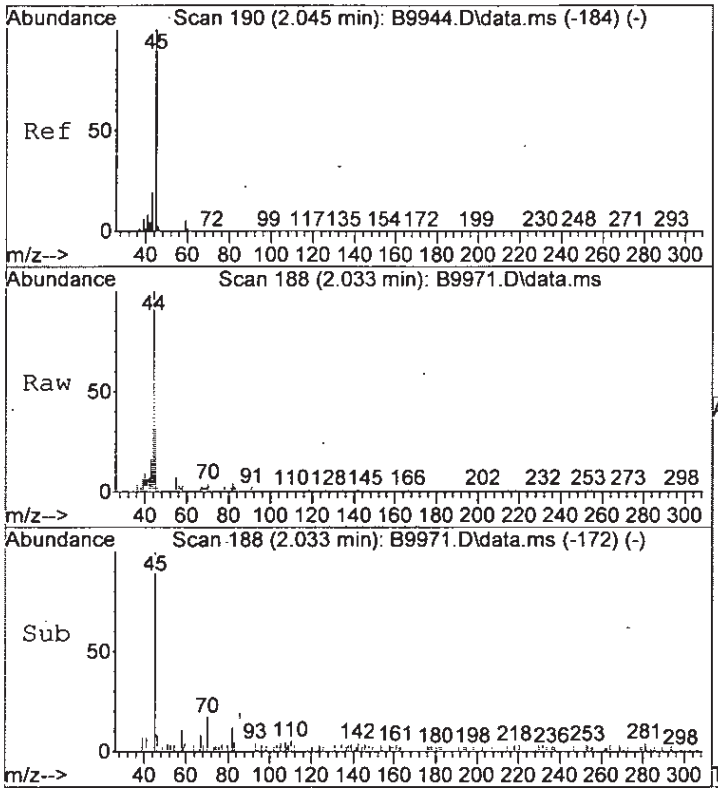


#16
Acetone
Concen: 35.61 ug/L
RT: 1.905 min Scan# 167
Delta R.T. -0.005 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion: 43 Resp: 27884

Ion	Ratio	Lower	Upper
43	100		
58	30.8	12.4	52.4
42	8.1	0.0	27.6

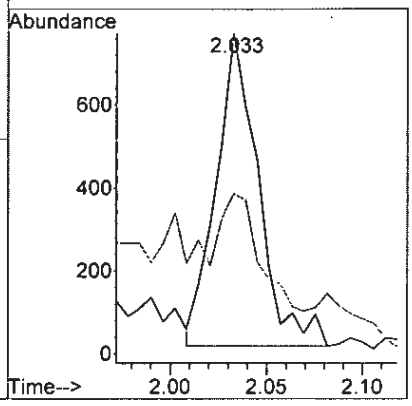


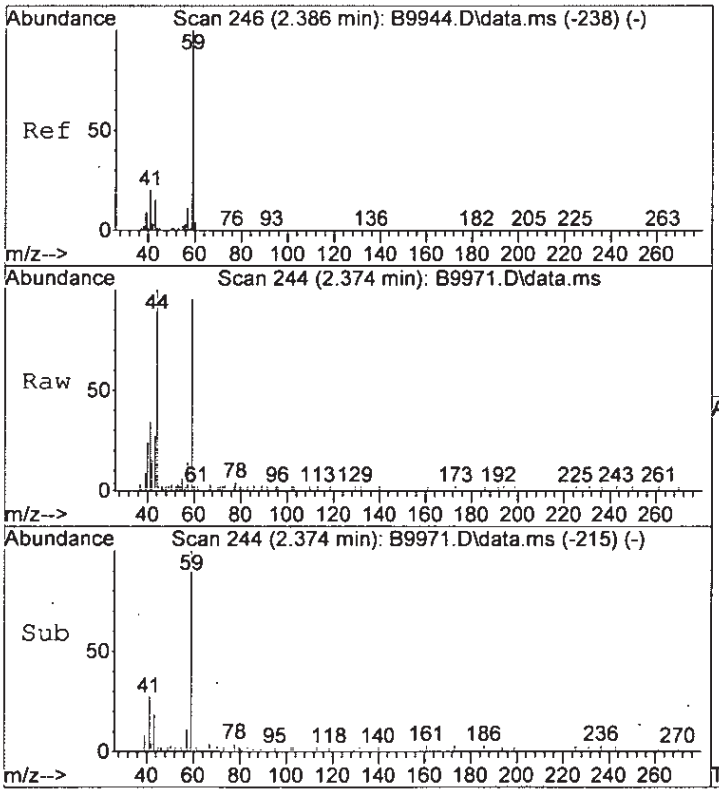


#17
2-Propanol
Concen: 6.40 ug/L
RT: 2.033 min Scan# 188
Delta R.T. -0.012 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion: 45 Resp: 1146

Ion	Ratio	Lower	Upper
45	100		
43	50.0	0.0	39.6#

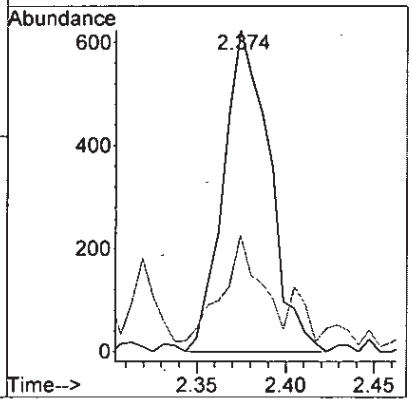


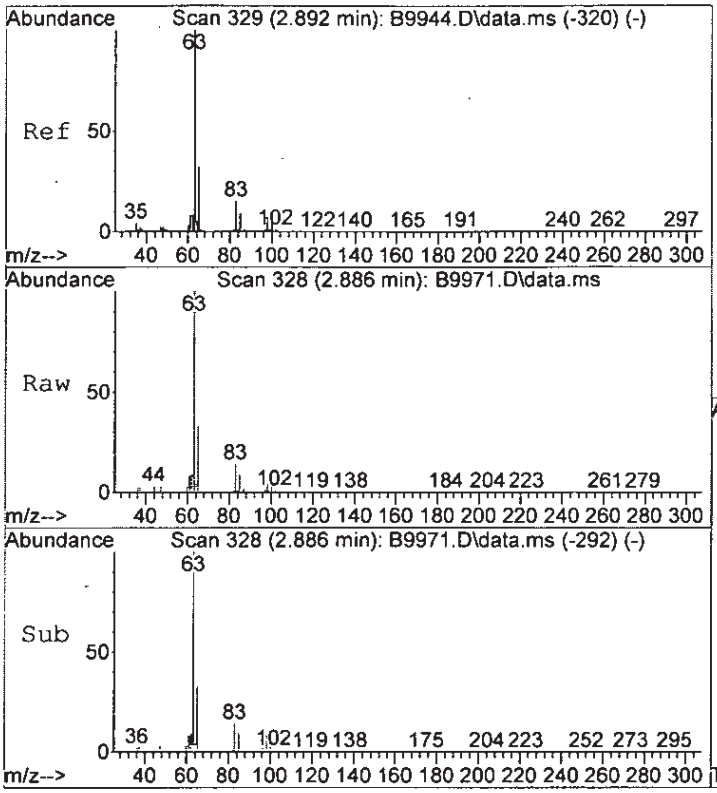


#24
TBA
Concen: 3.90 ug/L
RT: 2.374 min Scan# 244
Delta R.T. -0.012 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion: 59 Resp: 1120

Ion	Ratio	Lower	Upper
59	100		
41	36.1	0.0	39.8

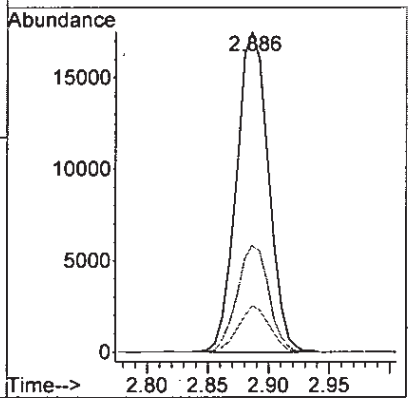


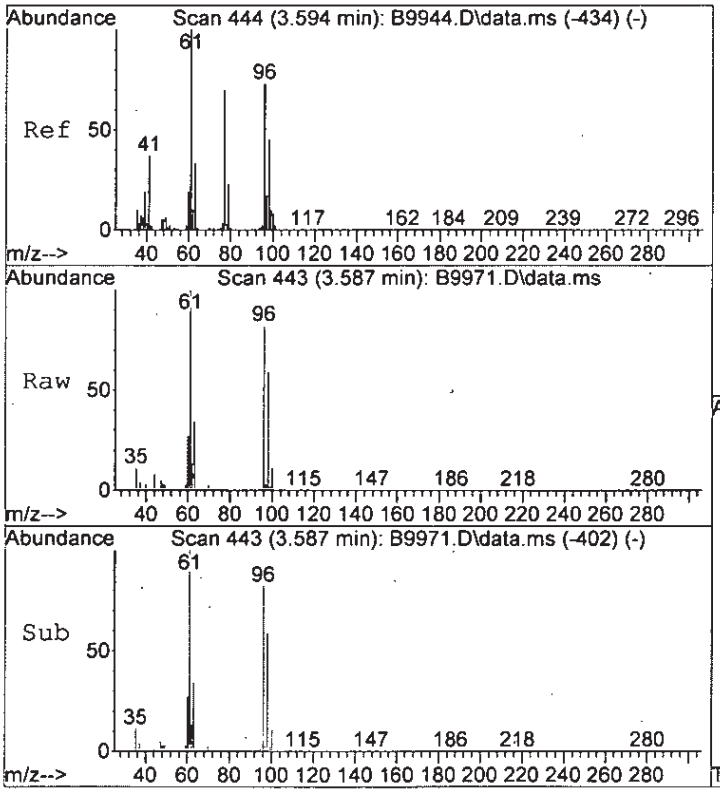


#28
1,1-Diclethane
Concen: 11.43 ug/L
RT: 2.886 min Scan# 328
Delta R.T. -0.006 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion: 63 Resp: 32200

Ion	Ratio	Lower	Upper
63	100		
65	33.3	11.7	51.7
83	14.4	0.0	34.7

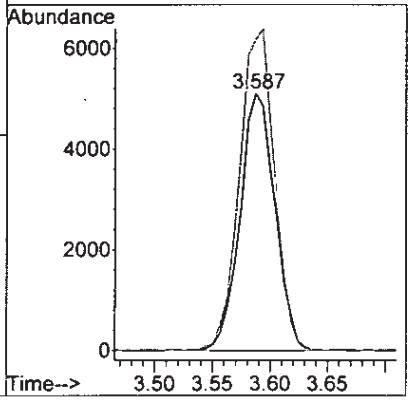


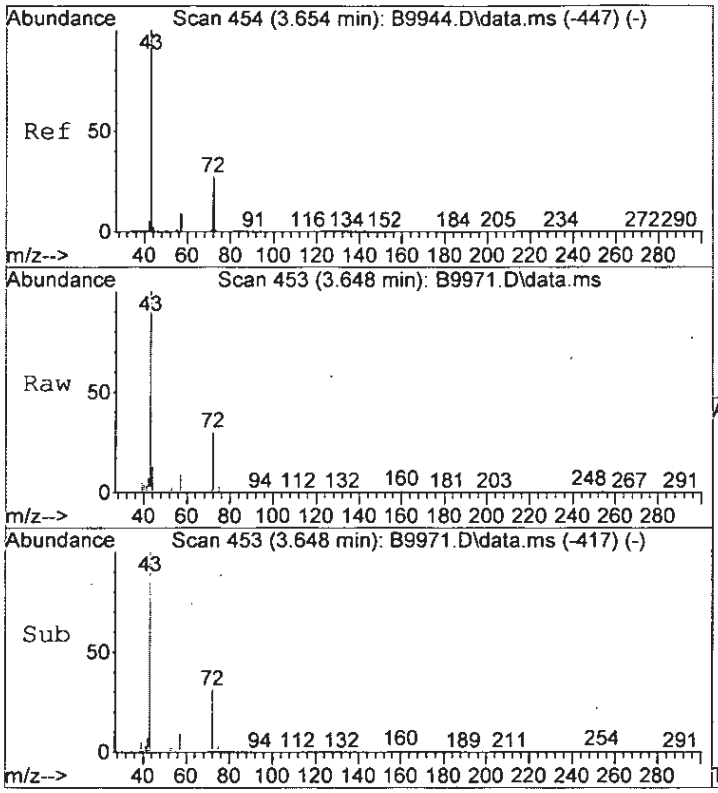


#34
cis-1,2-Dichloroethene
Concen: 5.75 ug/L
RT: 3.587 min Scan# 443
Delta R.T. -0.006 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion: 96 Resp: 10647

Ion	Ratio	Lower	Upper
96	100		
61	121.2	118.0	158.0

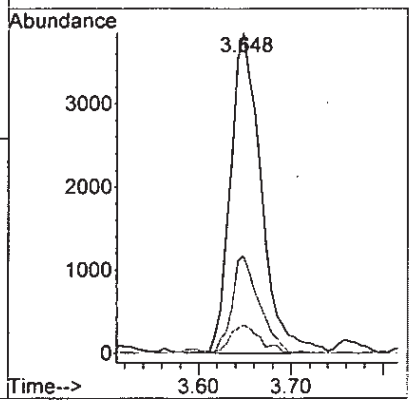


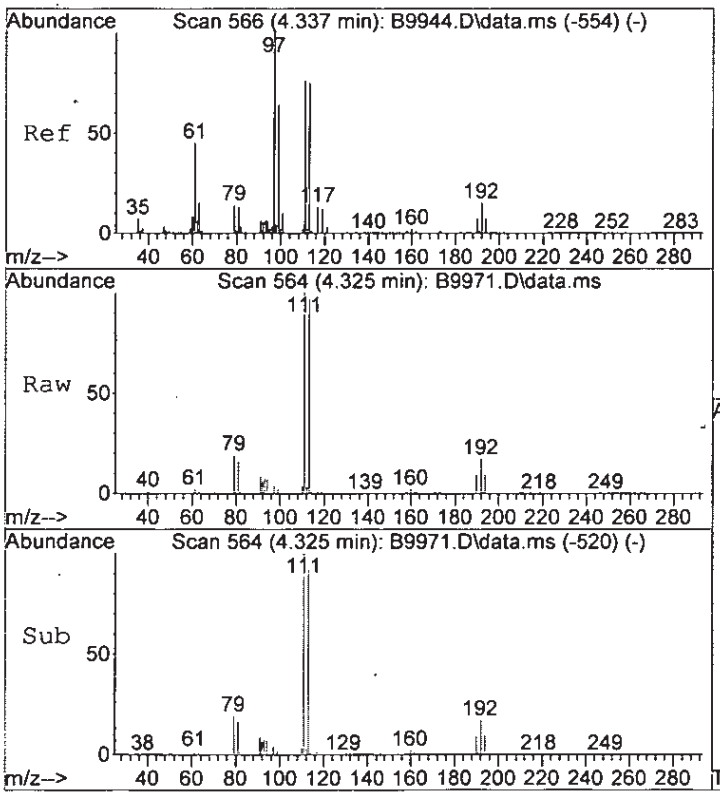


#35
2-Butanone
Concen: 8.01 ug/L
RT: 3.648 min Scan# 453
Delta R.T. -0.006 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion: 43 Resp: 8870

Ion	Ratio	Lower	Upper
43	100		
72	30.4	8.5	48.5
57	8.7	0.0	29.4

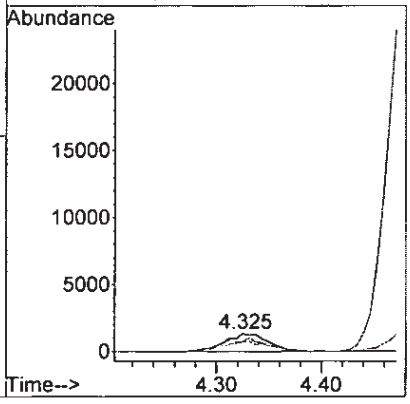


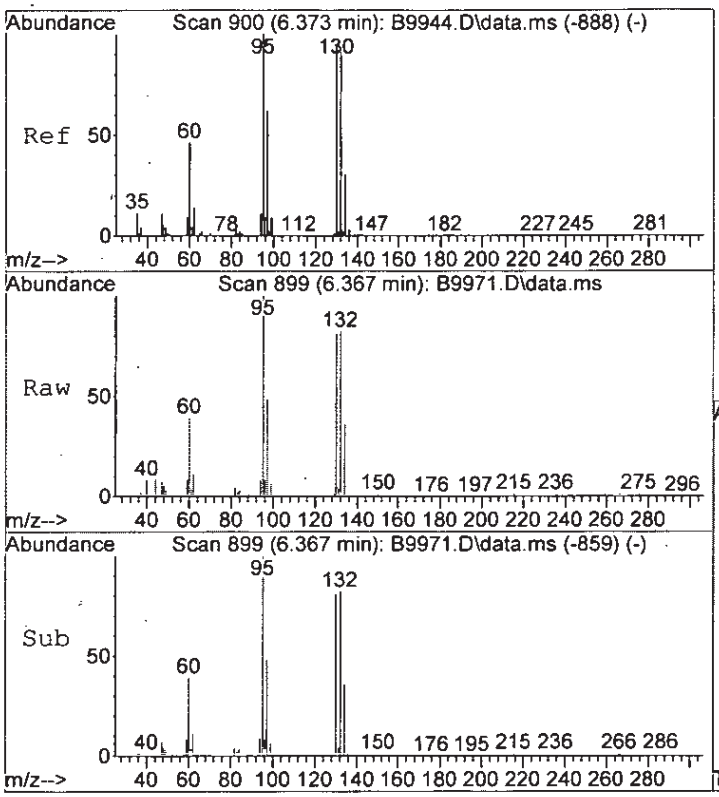


#41
1,1,1-Trichloroethane
Concen: 1.44 ug/L
RT: 4.325 min Scan# 564
Delta R.T. -0.012 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion: 97 Resp: 3646

Ion	Ratio	Lower	Upper
97	100		
99	55.6	44.2	84.2
61	52.8	25.1	65.1

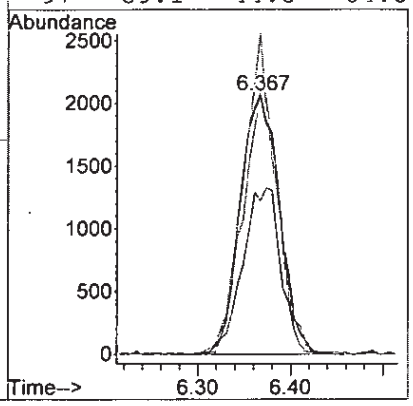


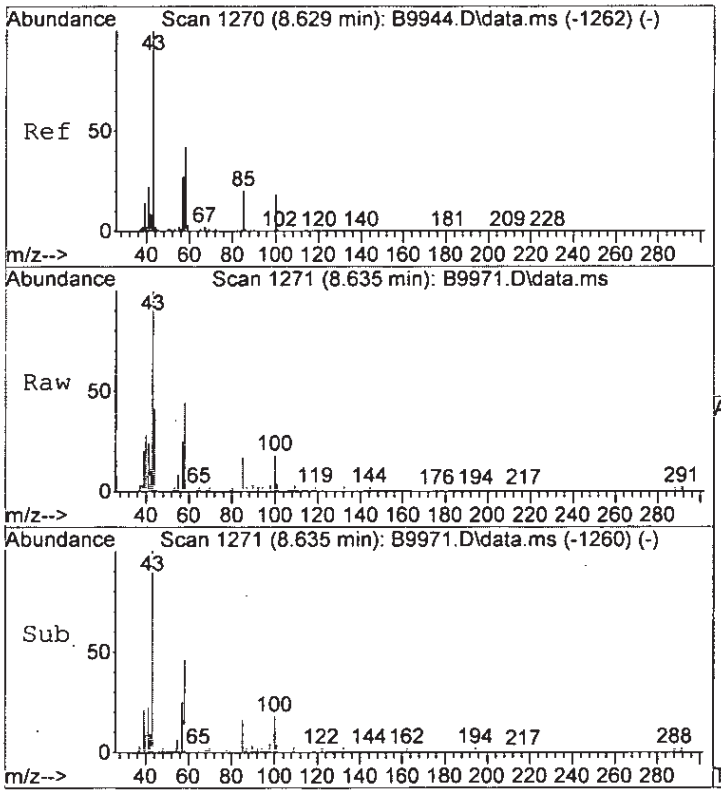


#54
Trichloroethene
Concen: 3.52 ug/L
RT: 6.367 min Scan# 899
Delta R.T. -0.006 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion:130 Resp: 6038

Ion	Ratio	Lower	Upper
130	100		
132	101.6	75.3	115.3
95	123.6	84.8	124.8
97	59.1	44.5	84.5

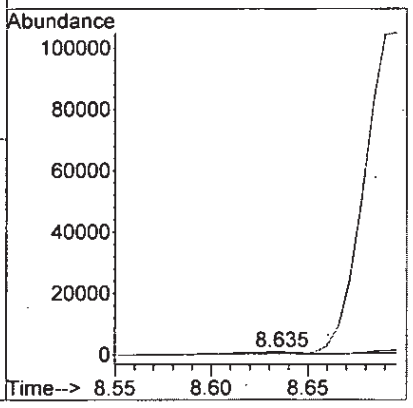


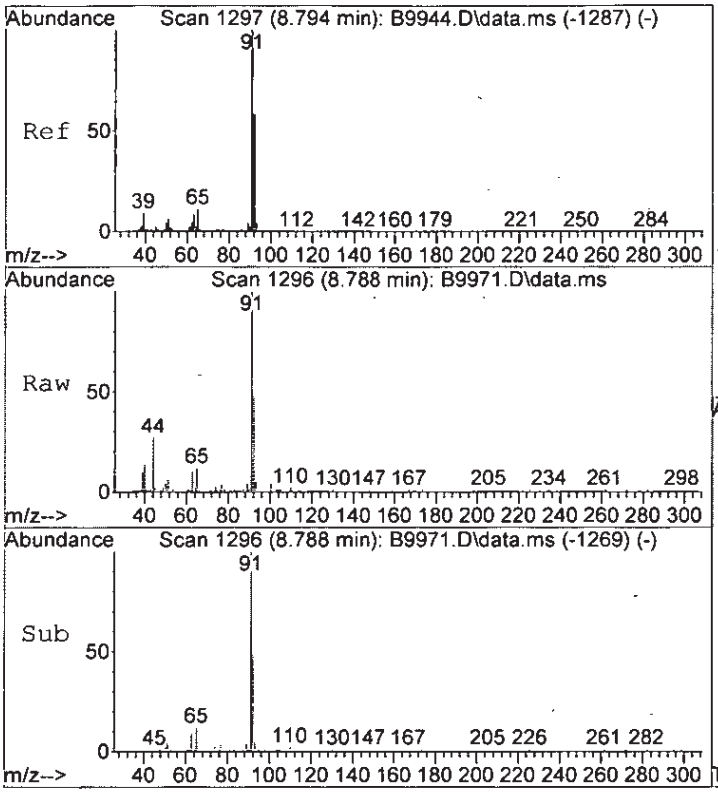


#64
4-Methyl-2-pentanone
Concen: 0.71 ug/L
RT: 8.635 min Scan# 1271
Delta R.T. 0.006 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion: 43 Resp: 1509

Ion	Ratio	Lower	Upper
43	100		
58	43.9	21.6	61.6
100	18.1	0.0	37.6

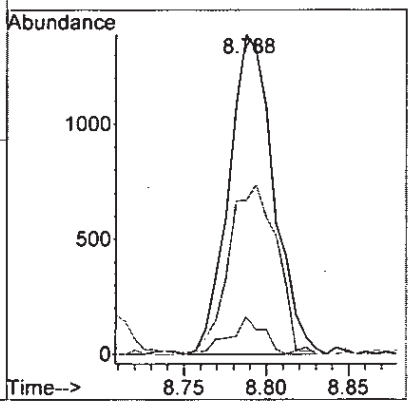


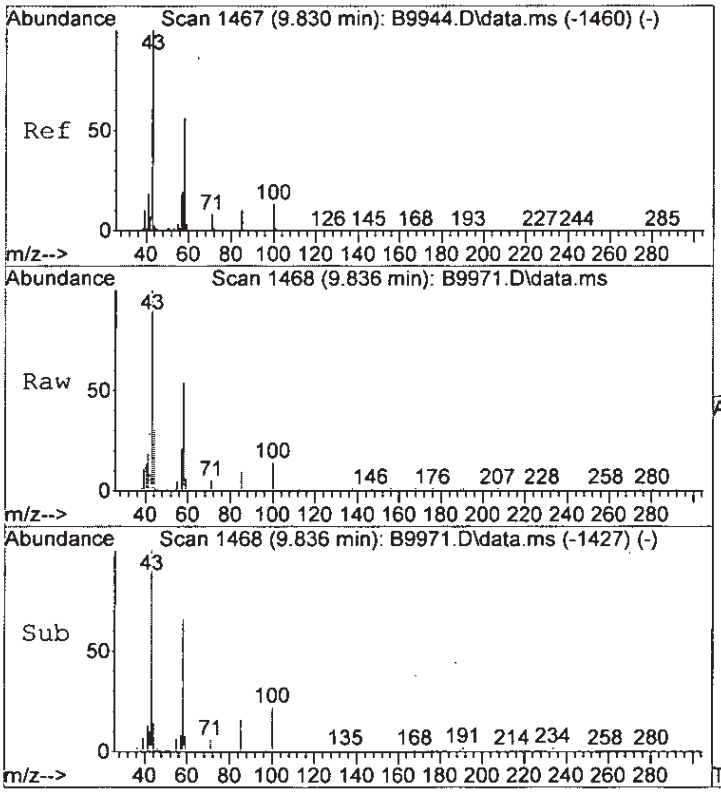


#66
Toluene
Concen: 0.36 ug/L
RT: 8.788 min Scan# 1296
Delta R.T. -0.006 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion: 91 Resp: 2624

Ion	Ratio	Lower	Upper
91	100		
92	48.0	37.9	77.9
65	11.7	0.0	31.4

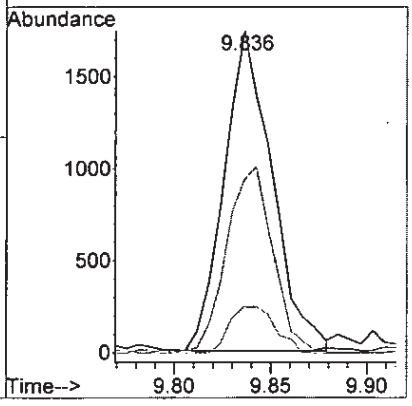




#73
2-Hexanone
Concen: 1.90 ug/L
RT: 9.836 min Scan# 1468
Delta R.T. 0.006 min
Lab File: B9971.D
Acq: 23 Mar 2015 3:24 pm

Tgt Ion: 43 Resp: 2999

Ion	Ratio	Lower	Upper
43	100		
58	53.8	36.0	76.0
100	14.4	0.0	32.6



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15 1355
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 15:48
Sample Name:	MW-8	**Units:**	µg/L
Lab Code:	R1501980-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9972.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**4.4**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**6.6**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**6.4**		5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**0.75**	J	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	3/23/15 15:48	
Dibromofluoromethane	101	89-119	3/23/15 15:48	
Toluene-d8	102	87-121	3/23/15 15:48	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9972.D
Acq On : 23 Mar 2015 3:48 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-003|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 25 10:34:24 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

AV 03/25/15

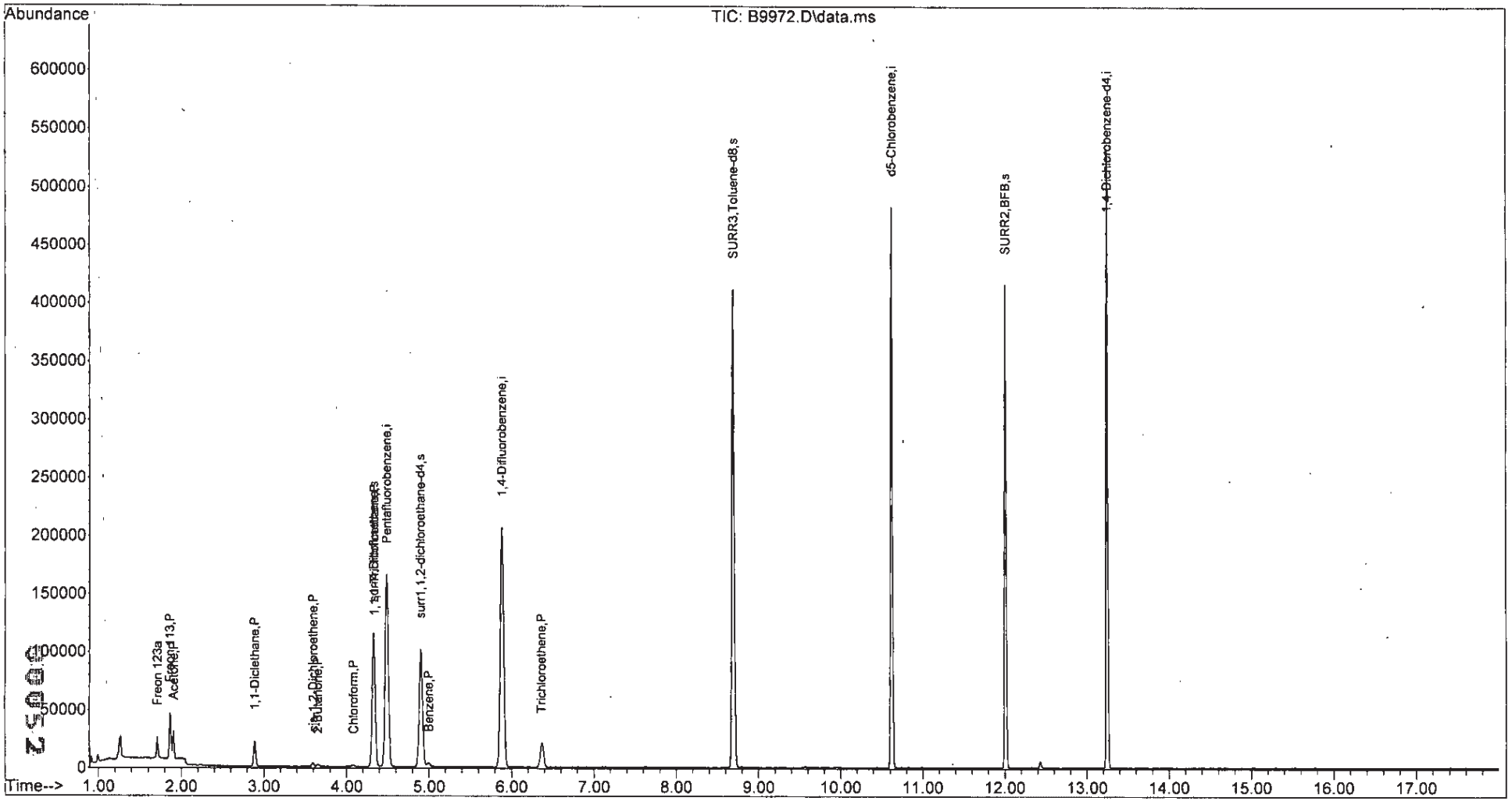
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	157438	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.886	114	260995	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.623	117	234529	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.244	152	110813	50.00	ug/L	0.01
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.331	113	80550	50.65	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.30%			
48) surr1,1,2-dichloroetha...	4.898	65	102081	51.17	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.34%			
65) SURR3,Toluene-d8	8.696	98	304745	50.84	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.68%			
70) SURR2,BFB	12.007	95	119231	50.54	ug/L	0.01
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.08%			
Target Compounds						Qvalue
11) Freon 123a	1.710	67	6496	3.18	ug/L	98
15) Freon 113	1.862	101	13029	9.03	ug/L	99
16) Acetone	1.905	43	18900	23.96	ug/L	100
28) 1,1-Diclethane	2.887	63	18640	6.57	ug/L	96
34) cis-1,2-Dichloroethene	3.594	96	1394	0.75	ug/L	84
35) 2-Butanone	3.649	43	2319	2.08	ug/L	96
40) Chloroform	4.081	83	1276	0.42	ug/L	90
41) 1,1,1-Trichloroethane	4.337	97	11065	4.35	ug/L	96
49) Benzene	4.996	78	4121	0.61	ug/L	100
54) Trichloroethene	6.361	130	10882	6.39	ug/L	88

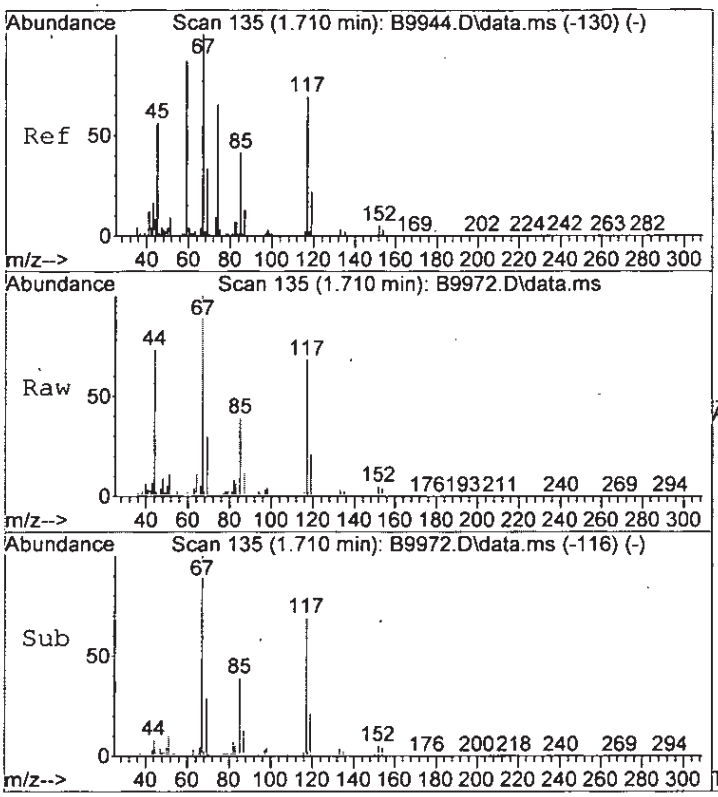
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9972.D
Acq On : 23 Mar 2015 3:48 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-003|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 25 10:34:24 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

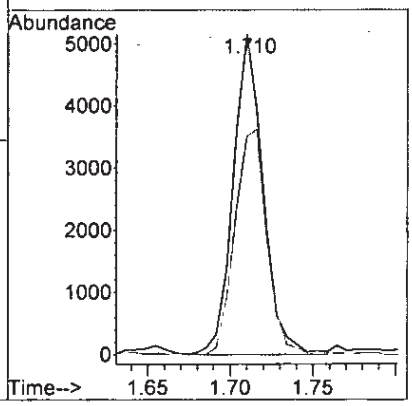


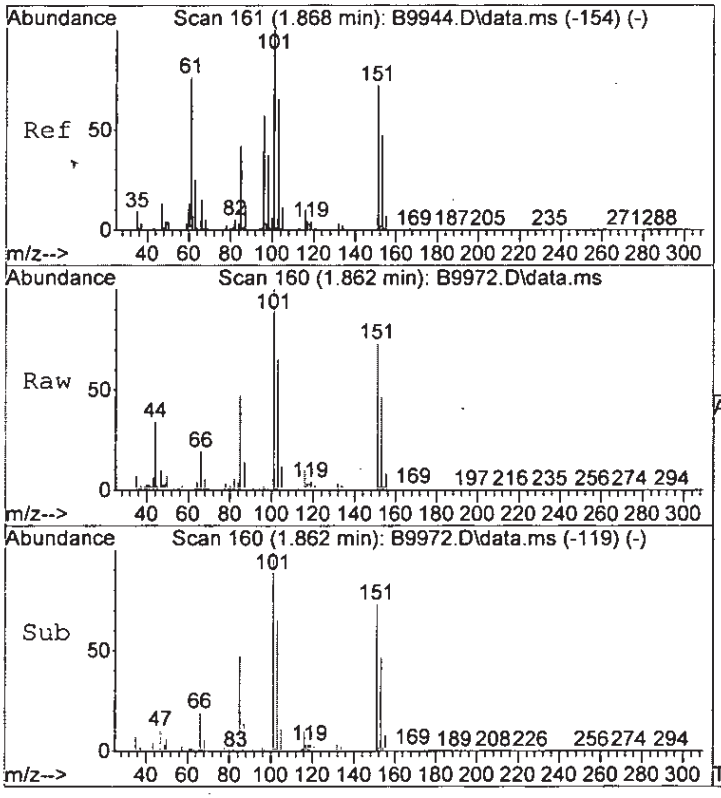


#11
Freon 123a
Concen: 3.18 ug/L
RT: 1.710 min Scan# 135
Delta R.T. 0.000 min
Lab File: B9972.D
Acq: 23 Mar 2015 3:48 pm

Tgt Ion: 67 Resp: 6496

Ion	Ratio	Lower	Upper
67	100		
117	68.1	49.5	89.5

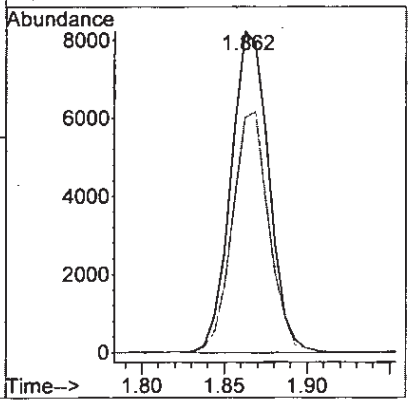


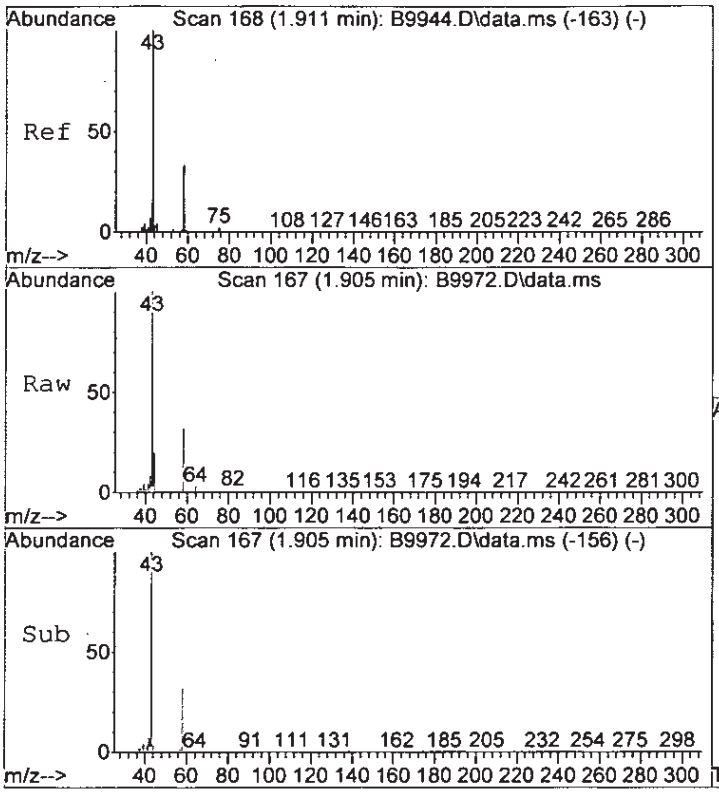


#15
Freon 113
Concen: 9.03 ug/L
RT: 1.862 min Scan# 160
Delta R.T. -0.006 min
Lab File: B9972.D
Acq: 23 Mar 2015 3:48 pm

Tgt Ion:101 Resp: 13029

Ion	Ratio	Lower	Upper
101	100		
151	73.0	52.3	92.3

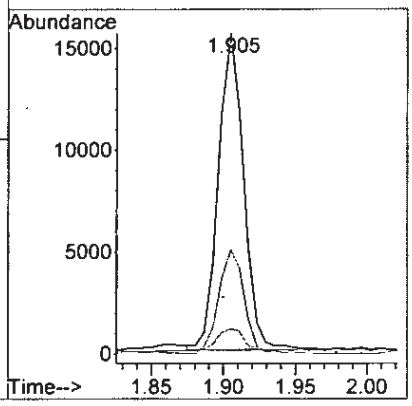


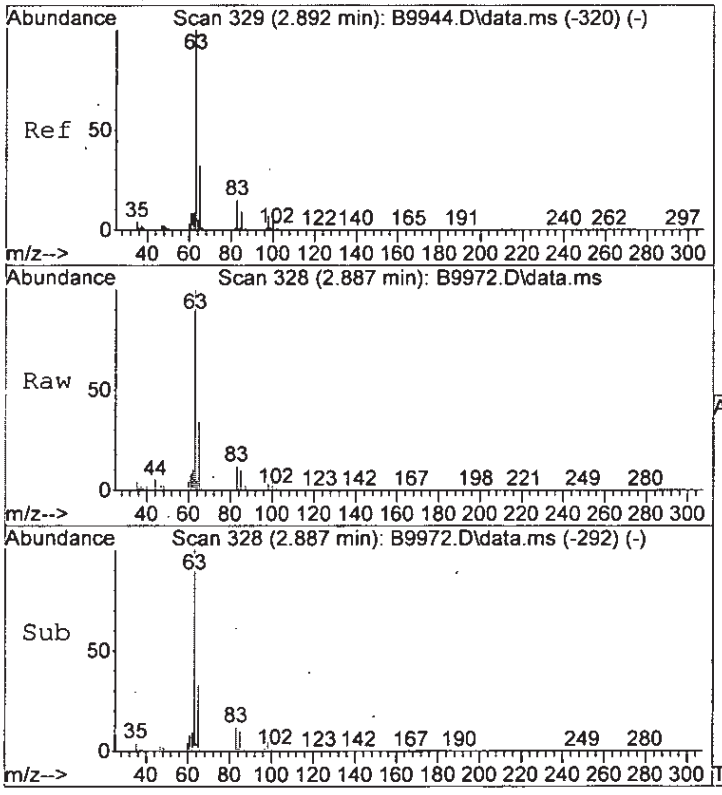


#16
Acetone
Concen: 23.96 ug/L
RT: 1.905 min Scan# 167
Delta R.T. -0.005 min
Lab File: B9972.D
Acq: 23 Mar 2015 3:48 pm

Tgt Ion: 43 Resp: 18900

Ion	Ratio	Lower	Upper
43	100		
58	32.4	12.4	52.4
42	7.7	0.0	27.6

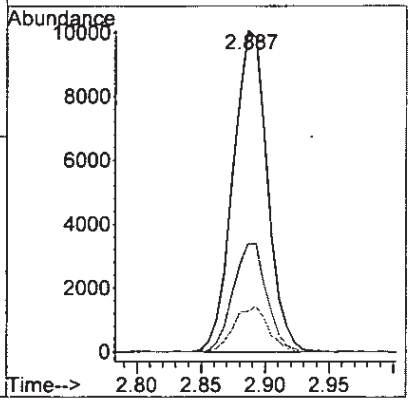


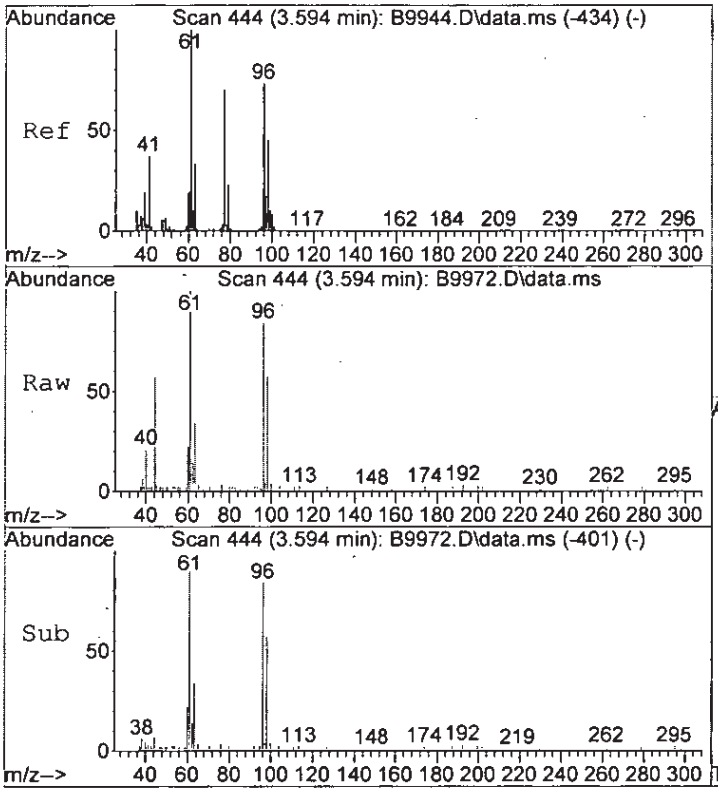


#28
1,1-Diclethane
Concen: 6.57 ug/L
RT: 2.887 min Scan# 328
Delta R.T. -0.006 min
Lab File: B9972.D
Acq: 23 Mar 2015 3:48 pm

Tgt Ion: 63 Resp: 18640

Ion	Ratio	Lower	Upper
63	100		
65	33.6	11.7	51.7
83	12.5	0.0	34.7

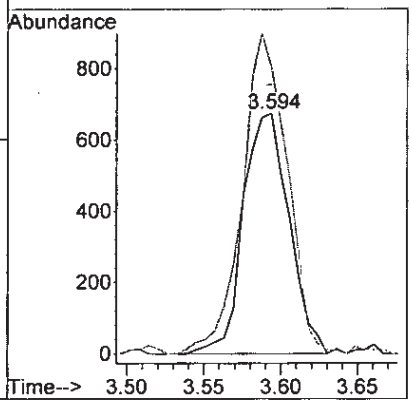


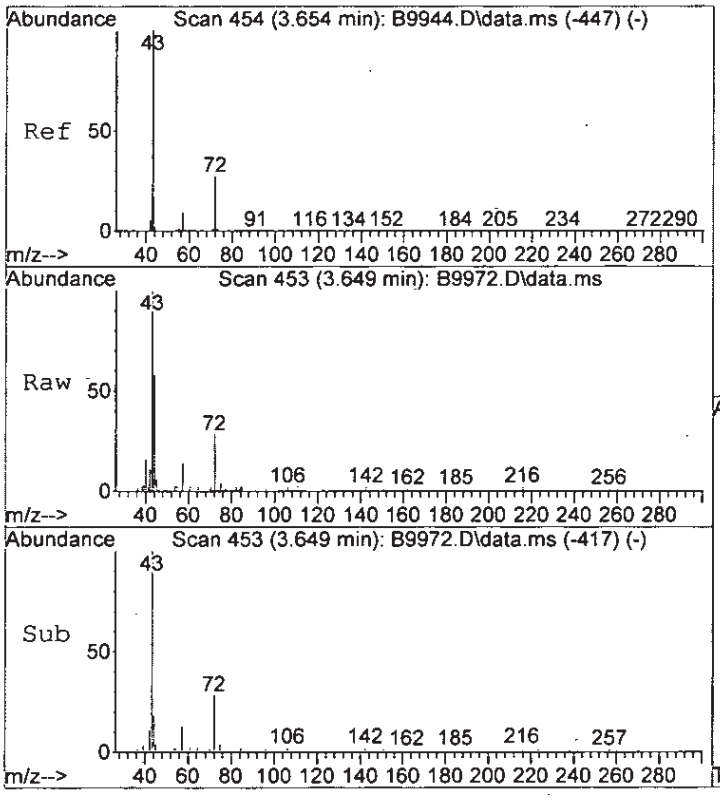


#34
cis-1,2-Dichloroethene
Concen: 0.75 ug/L
RT: 3.594 min Scan# 444
Delta R.T. 0.000 min
Lab File: B9972.D
Acq: 23 Mar 2015 3:48 pm

Tgt Ion: 96 Resp: 1394

Ion	Ratio	Lower	Upper
96	100		
61	119.1	118.0	158.0

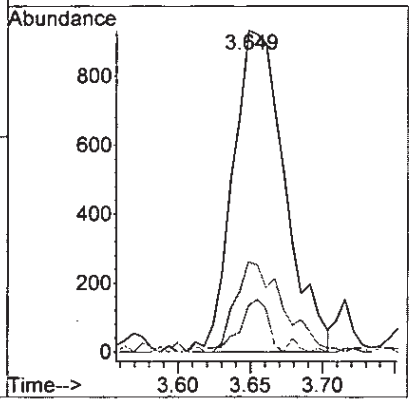


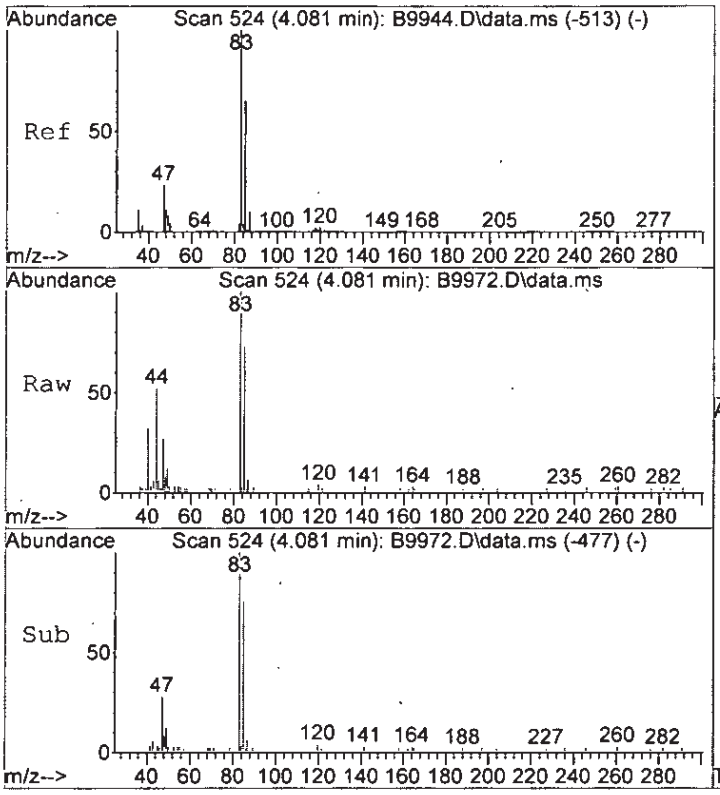


#35
2-Butanone
Concen: 2.08 ug/L
RT: 3.649 min Scan# 453
Delta R.T. -0.006 min
Lab File: B9972.D
Acq: 23 Mar 2015 3:48 pm

Tgt Ion: 43 Resp: 2319

Ion	Ratio	Lower	Upper
43	100		
72	27.9	8.5	48.5
57	14.3	0.0	29.4

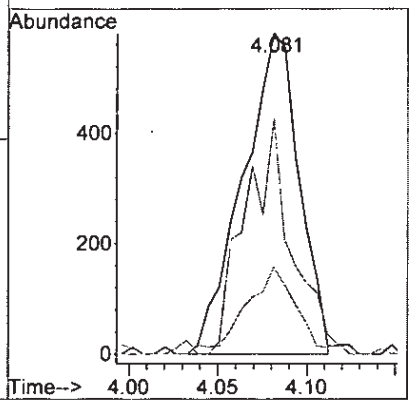


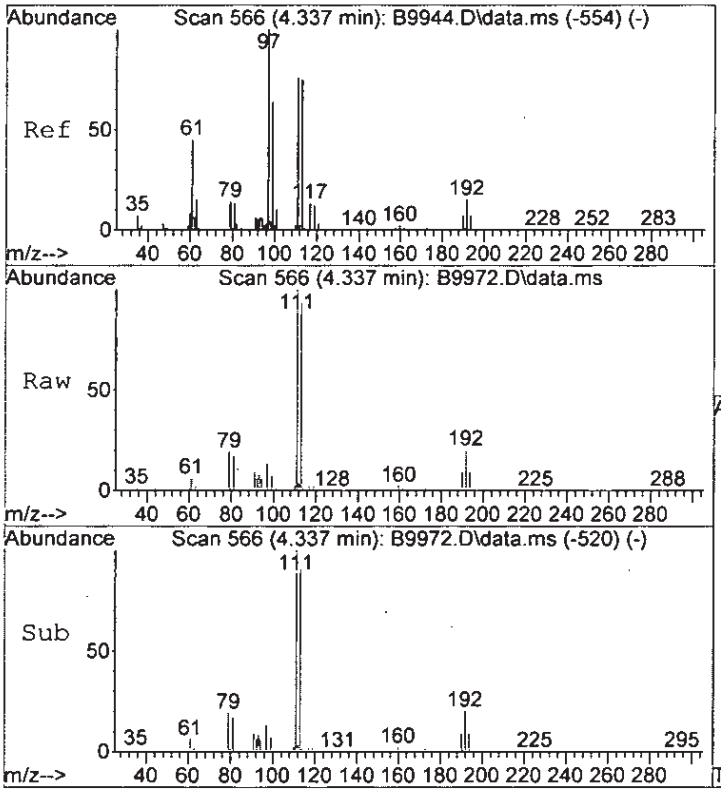


#40
Chloroform
Concen: 0.42 ug/L
RT: 4.081 min Scan# 524
Delta R.T. 0.000 min
Lab File: B9972.D
Acq: 23 Mar 2015 3:48 pm

Tgt Ion: 83 Resp: 1276

Ion	Ratio	Lower	Upper
83	100		
85	73.3	45.4	85.4
47	27.1	2.7	42.7

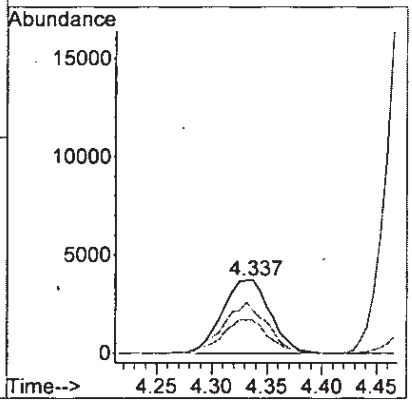


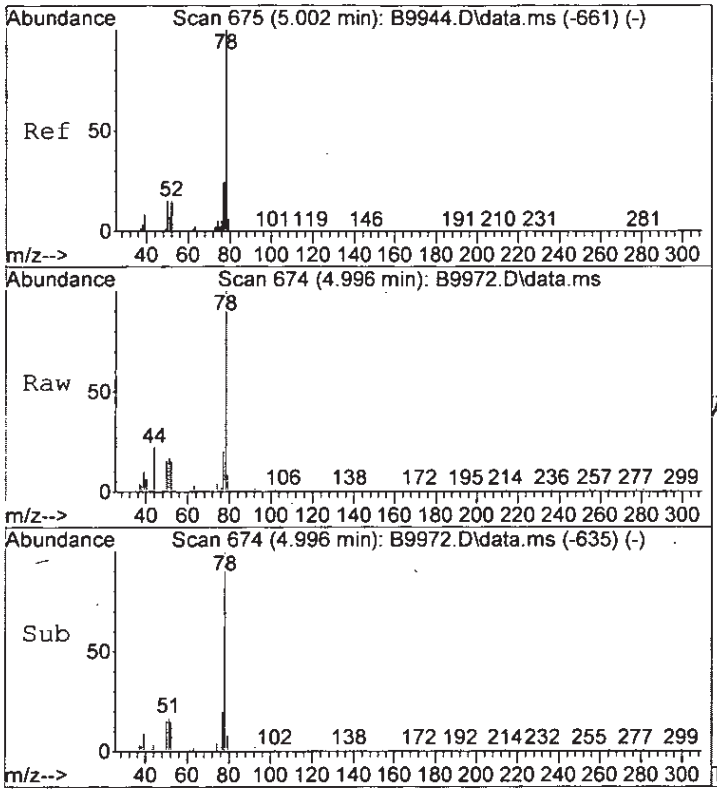


#41
1,1,1-Trichloroethane
Concen: 4.35 ug/L
RT: 4.337 min Scan# 566
Delta R.T. 0.000 min
Lab File: B9972.D
Acq: 23 Mar 2015 3:48 pm

Tgt Ion: 97 Resp: 11065

Ion	Ratio	Lower	Upper
97	100		
99	58.9	44.2	84.2
61	45.0	25.1	65.1

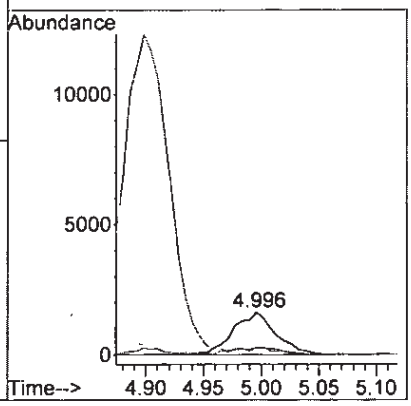


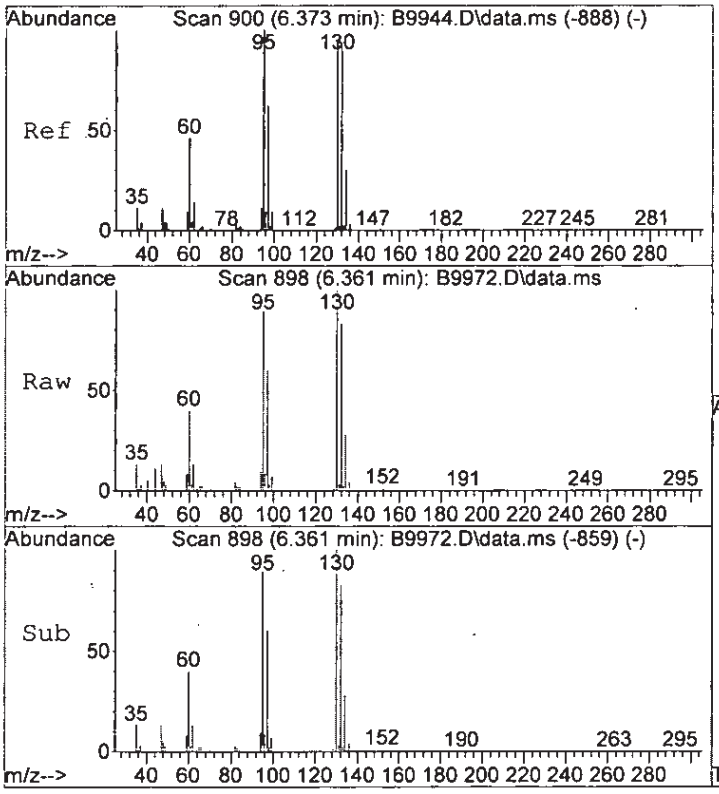


#49
Benzene
Concen: 0.61 ug/L
RT: 4.996 min Scan# 674
Delta R.T. -0.006 min
Lab File: B9972.D
Acq: 23 Mar 2015 3:48 pm

Tgt Ion: 78 Resp: 4121

Ion	Ratio	Lower	Upper
78	100		
51	16.9	0.0	36.8
52	14.9	0.0	35.2

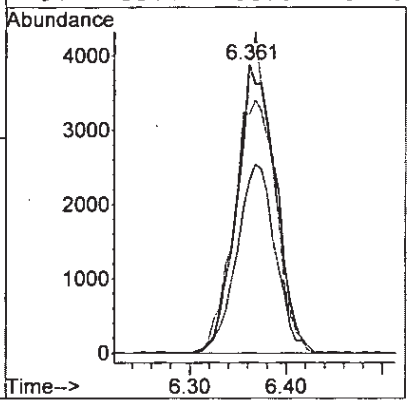




#54
Trichloroethene
Concen: 6.39 ug/L
RT: 6.361 min Scan# 898
Delta R.T. -0.012 min
Lab File: B9972.D
Acq: 23 Mar 2015 3:48 pm

Tgt Ion:130 Resp: 10882

Ion	Ratio	Lower	Upper
130	100		
132	82.6	75.3	115.3
95	90.4	84.8	124.8
97	59.7	44.5	84.5



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15 1530
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 16:16
Sample Name:	MW-10	**Units:**	µg/L
Lab Code:	R1501980-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9973.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**1.0**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**0.69**	J	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	**0.66**	J	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**6.2**		5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**2.1**	J	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	3/23/15 16:16	
Dibromofluoromethane	100	89-119	3/23/15 16:16	
Toluene-d8	101	87-121	3/23/15 16:16	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9973.D
Acq On : 23 Mar 2015 4:16 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-004|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 25 10:36:38 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

JW 03/25/15

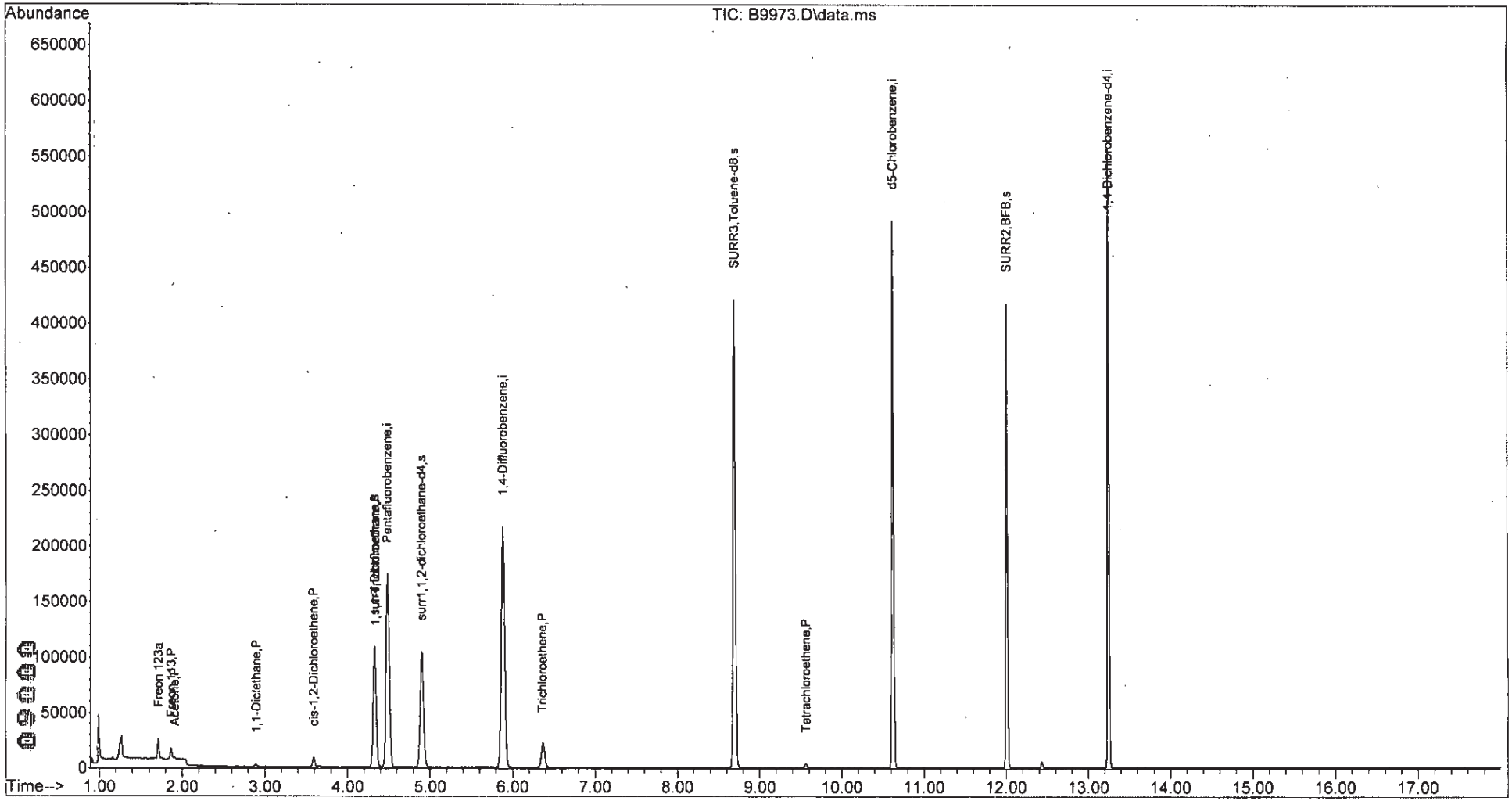
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	165449	50.00	ug/L	-0.01
43) 1,4-Difluorobenzene	5.886	114	274172	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.623	117	245583	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.244	152	115844	50.00	ug/L	0.01
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.331	113	83705	50.10	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.20%			
48) surr1,1,2-dichloroetha...	4.898	65	105910	50.54	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.08%			
65) SURR3,Toluene-d8	8.696	98	316848	50.32	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.64%			
70) SURR2,BFB	12.007	95	121727	49.11	ug/L	0.01
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.22%			
Target Compounds						Qvalue
11) Freon 123a	1.710	67	6724	3.13	ug/L	96
15) Freon 113	1.868	101	3528	2.33	ug/L	96
16) Acetone	1.905	43	2241	2.70	ug/L	90
28) 1,1-Diclethane	2.893	63	2047	0.69	ug/L	95
34) cis-1,2-Dichloroethene	3.588	96	4188	2.14	ug/L	85
41) 1,1,1-Trichloroethane	4.337	97	2776	1.04	ug/L	82
54) Trichloroethene	6.361	130	11076	6.19	ug/L	90
72) Tetrachloroethene	9.562	164	902	0.66	ug/L #	82

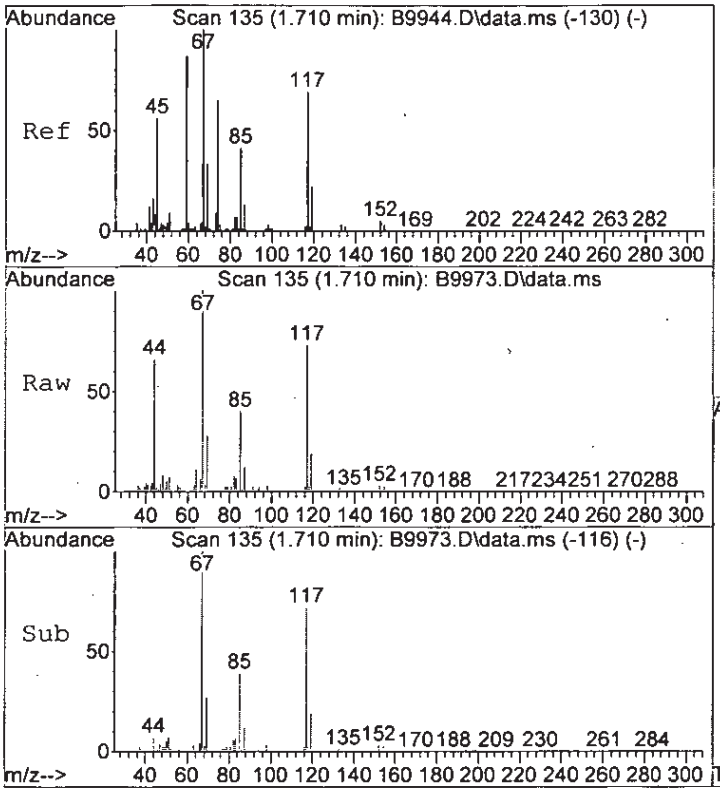
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9973.D
Acq On : 23 Mar 2015 4:16 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-004|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 25 10:36:38 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

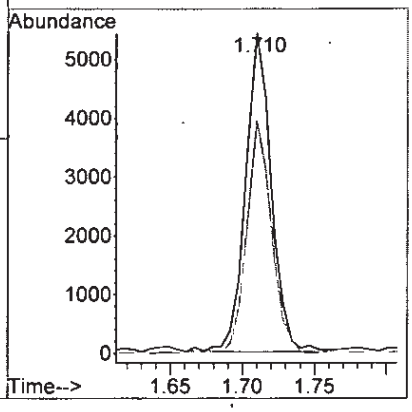


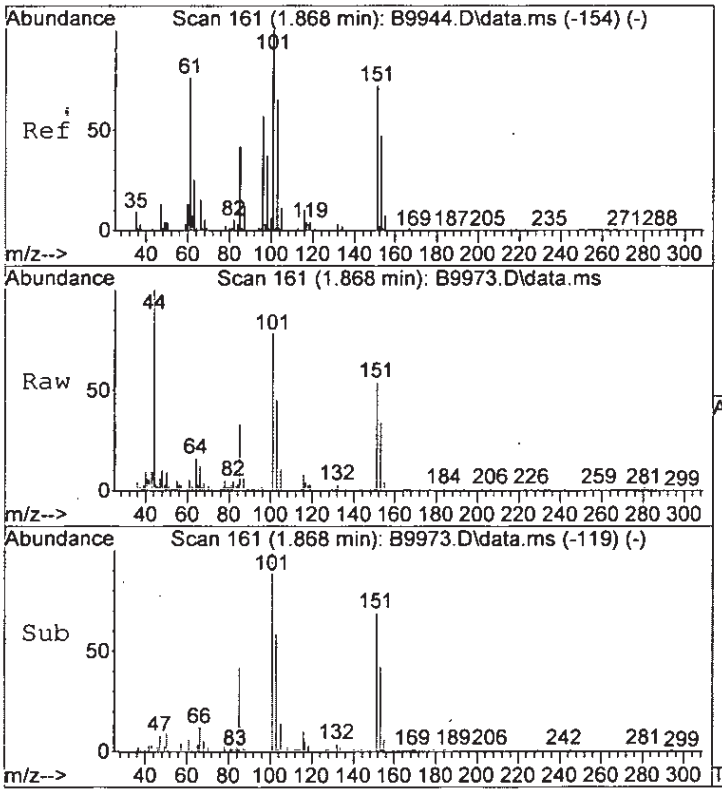


#11
Freon 123a
Concen: 3.13 ug/L
RT: 1.710 min Scan# 135
Delta R.T. 0.000 min
Lab File: B9973.D
Acq: 23 Mar 2015 4:16 pm

Tgt Ion: 67 Resp: 6724

Ion	Ratio	Lower	Upper
67	100		
117	72.5	49.5	89.5

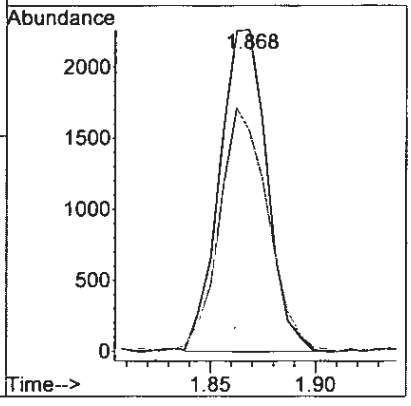


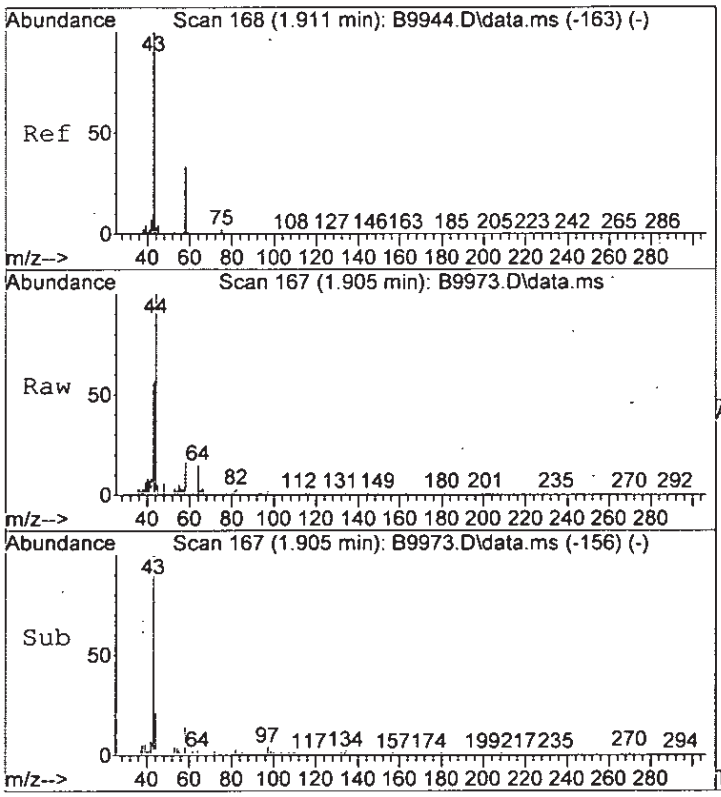


#15
Freon 113
Concen: 2.33 ug/L
RT: 1.868 min Scan# 161
Delta R.T. 0.000 min
Lab File: B9973.D
Acq: 23 Mar 2015 4:16 pm

Tgt Ion:101 Resp: 3528

Ion	Ratio	Lower	Upper
101	100		
151	68.8	52.3	92.3

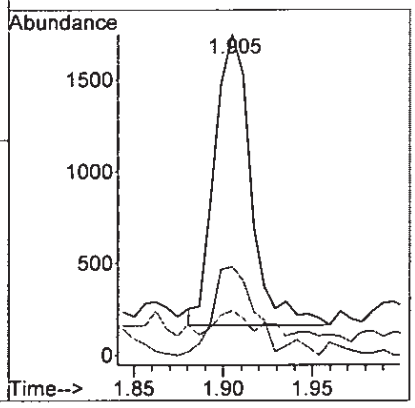


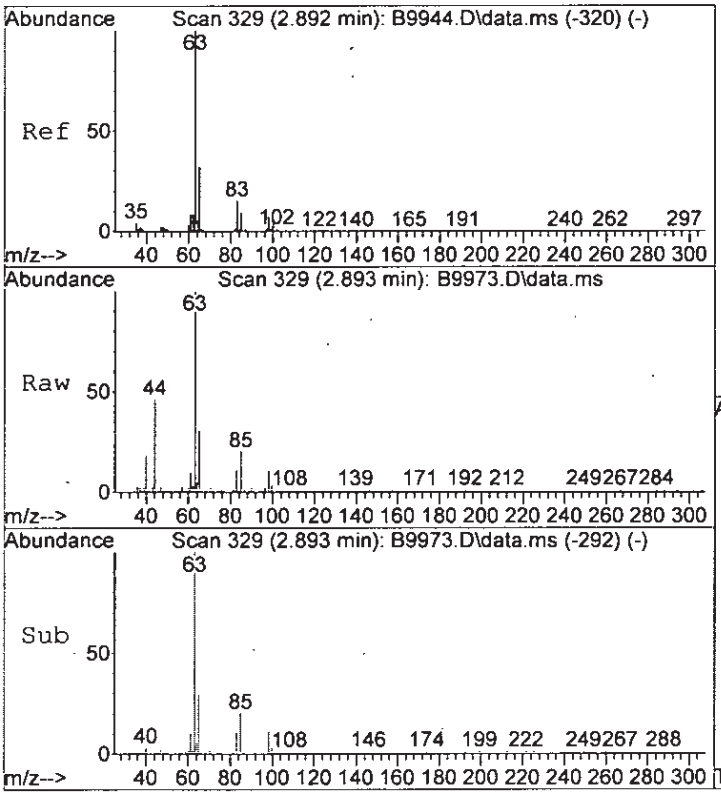


#16
Acetone
Concen: 2.70 ug/L
RT: 1.905 min Scan# 167
Delta R.T. -0.005 min
Lab File: B9973.D
Acq: 23 Mar 2015 4:16 pm

Tgt Ion: 43 Resp: 2241

Ion	Ratio	Lower	Upper
43	100		
58	27.6	12.4	52.4
42	13.9	0.0	27.6

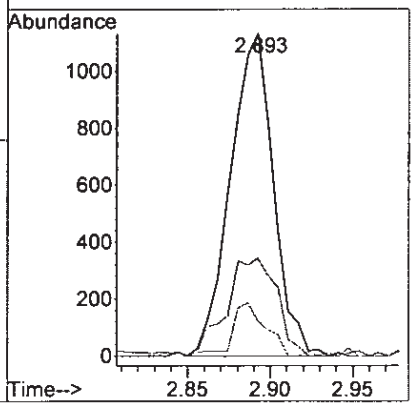


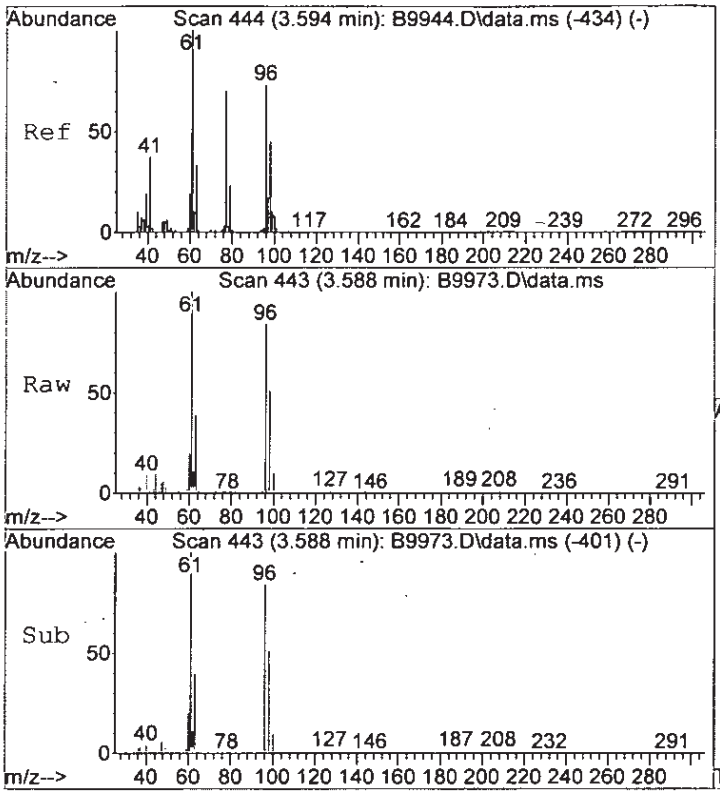


#28
1,1-Diclethane
Concen: 0.69 ug/L
RT: 2.893 min Scan# 329
Delta R.T. 0.000 min
Lab File: B9973.D
Acq: 23 Mar 2015 4:16 pm

Tgt Ion: 63 Resp: 2047

Ion	Ratio	Lower	Upper
63	100		
65	30.3	11.7	51.7
83	10.8	0.0	34.7

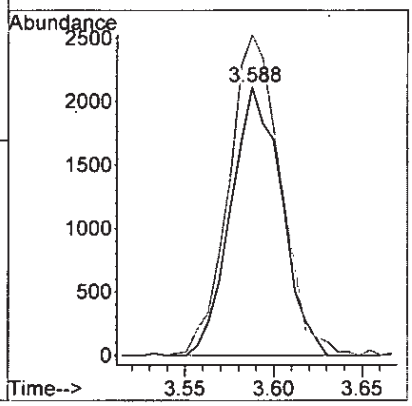


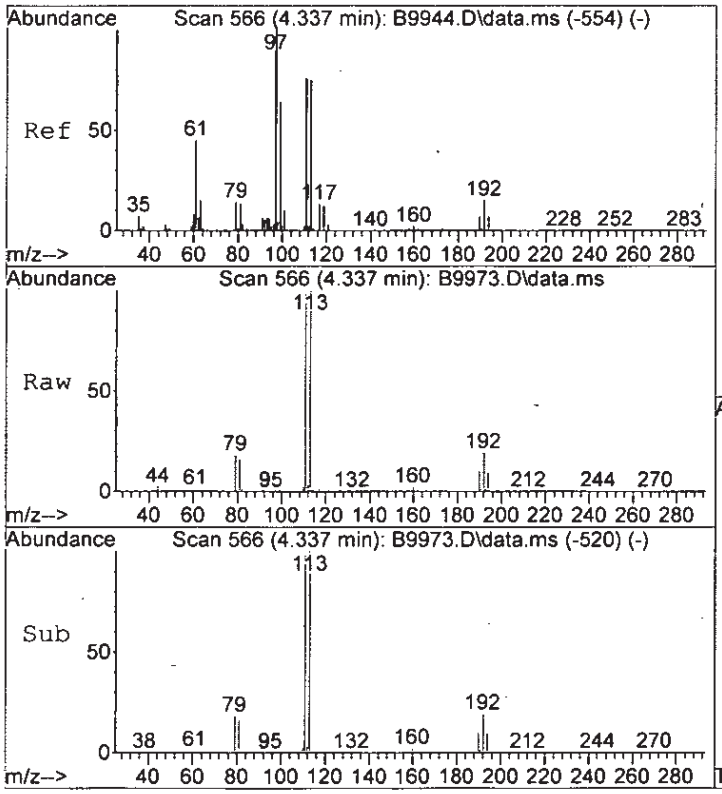


#34
cis-1,2-Dichloroethene
Concen: 2.14 ug/L
RT: 3.588 min Scan# 443
Delta R.T. -0.006 min
Lab File: B9973.D
Acq: 23 Mar 2015 4:16 pm

Tgt Ion: 96 Resp: 4188

Ion	Ratio	Lower	Upper
96	100		
61	119.4	118.0	158.0

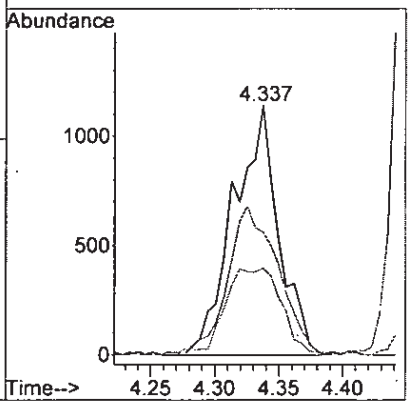


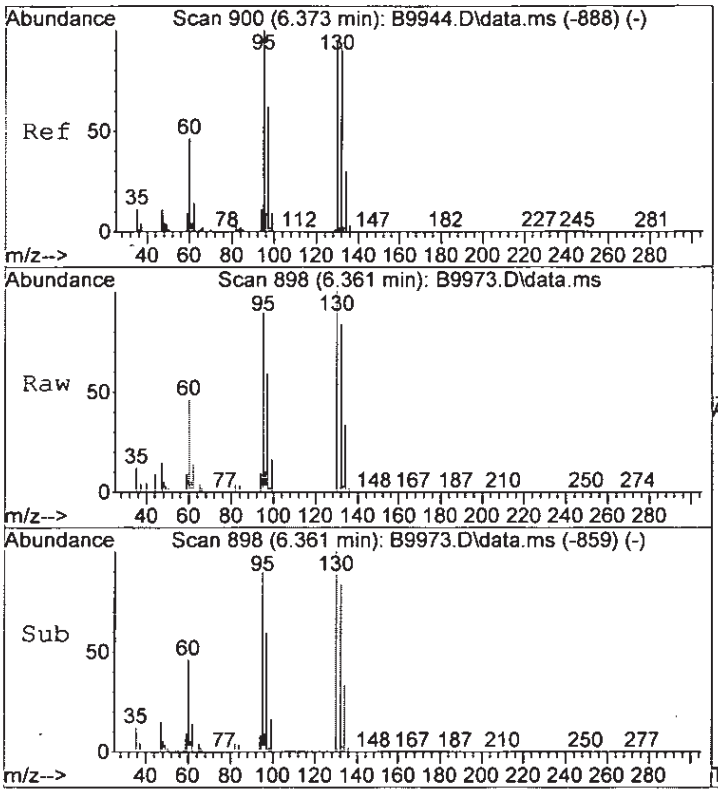


#41
1,1,1-Trichloroethane
Concen: 1.04 ug/L
RT: 4.337 min Scan# 566
Delta R.T. 0.000 min
Lab File: B9973.D
Acq: 23 Mar 2015 4:16 pm

Tgt Ion: 97 Resp: 2776

Ion	Ratio	Lower	Upper
97	100		
99	49.3	44.2	84.2
61	34.7	25.1	65.1

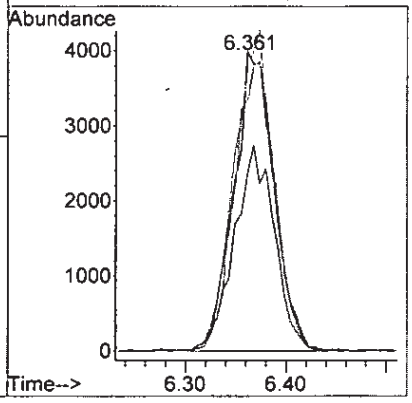


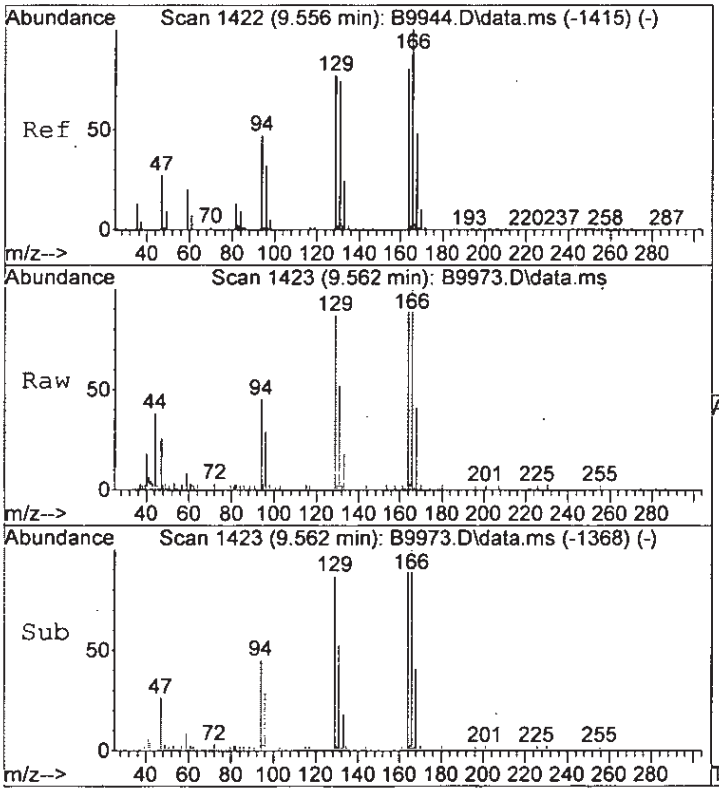


#54
Trichloroethene
Concen: 6.19 ug/L
RT: 6.361 min Scan# 898
Delta R.T. -0.012 min
Lab File: B9973.D
Acq: 23 Mar 2015 4:16 pm

Tgt Ion:130 Resp: 11076

Ion	Ratio	Lower	Upper
130	100		
132	83.8	75.3	115.3
95	93.9	84.8	124.8
97	59.2	44.5	84.5

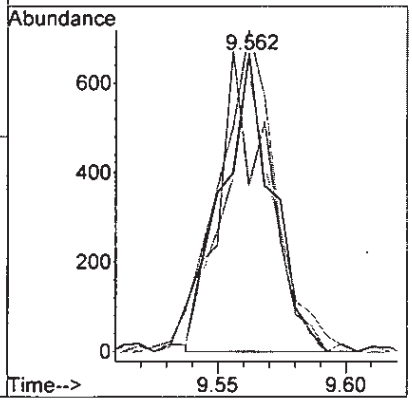




#72
Tetrachloroethene
Concen: 0.66 ug/L
RT: 9.562 min Scan# 1423
Delta R.T. 0.006 min
Lab File: B9973.D
Acq: 23 Mar 2015 4:16 pm

Tgt Ion:164 Resp: 902

Ion	Ratio	Lower	Upper
164	100		
166	107.8	105.5	145.5
129	93.5	76.7	116.7
131	55.8	72.6	112.6#



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15 1538
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 14:36
Sample Name:	FB-031815	**Units:**	µg/L
Lab Code:	R1501980-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9969.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85-122	3/23/15 14:36	
Dibromofluoromethane	97	89-119	3/23/15 14:36	
Toluene-d8	99	87-121	3/23/15 14:36	

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9969.D
Acq On : 23 Mar 2015 2:36 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-005|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 25 06:22:07 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

03/25/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	161096	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.886	114	266598	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.623	117	232027	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.244	152	111517	50.00	ug/L	0.01
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.331	113	78511	48.33	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 96.66%			
48) surr1,1,2-dichloroetha...	4.898	65	101670	49.89	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.78%			
65) SURR3,Toluene-d8	8.696	98	304421	49.72	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.44%			
70) SURR2,BFB	12.007	95	113786	47.21	ug/L	0.01
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.42%			
Target Compounds						Qvalue
~~7) Chloroethane~~	~~1.320~~	~~64~~	~~416~~	~~0.33~~	~~ug/L #~~	~~55~~
16) Acetone	1.905	43	1386	1.72	ug/L	92
~~17) 2-Propanol~~	~~2.033~~	~~45~~	~~353~~	~~1.91~~	~~ug/L #~~	~~1~~
23) Methylene Chloride	2.228	84	892	0.47	ug/L	95
~~24) TBA~~	~~2.374~~	~~59~~	~~703~~	~~2.37~~	~~ug/L~~	~~73~~
89) Cyclohexanone	12.007	55	370	2.37	ug/L #	26

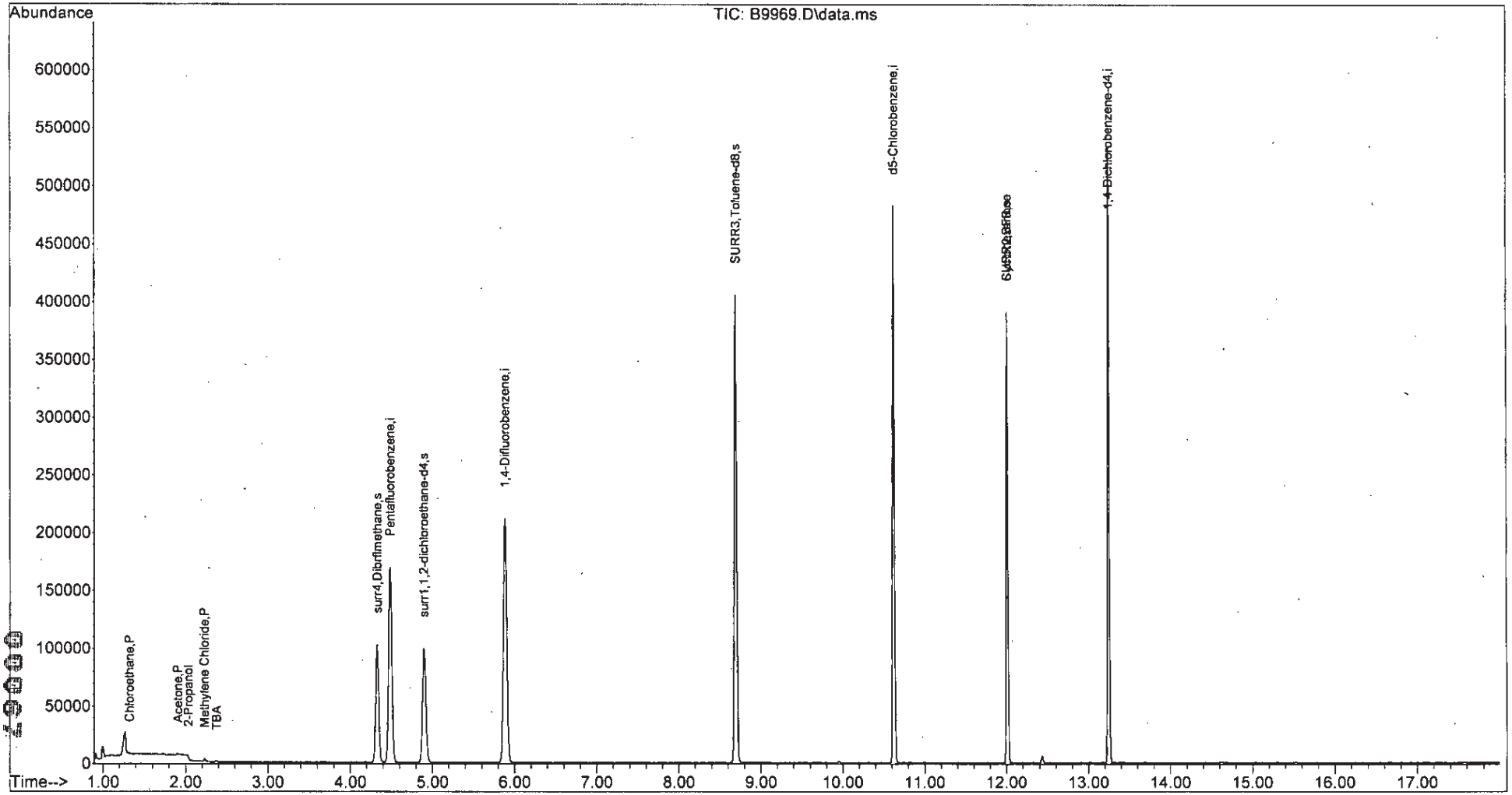
NT

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9969.D
Acq On : 23 Mar 2015 2:36 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-005|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 25 06:22:07 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15 1550
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 16:36
Sample Name:	MW-16	**Units:**	µg/L
Lab Code:	R1501980-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9974.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**1.1**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**7.8**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**1.8**	J	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**7.1**		5.0	0.22	
75-01-4	Vinyl Chloride	**15**		5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**31**		5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	**0.35**	J	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	3/23/15 16:36	
Dibromofluoromethane	99	89-119	3/23/15 16:36	
Toluene-d8	102	87-121	3/23/15 16:36	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9974.D
Acq On : 23 Mar 2015 4:36 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-006|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 25 10:38:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

AW 032515

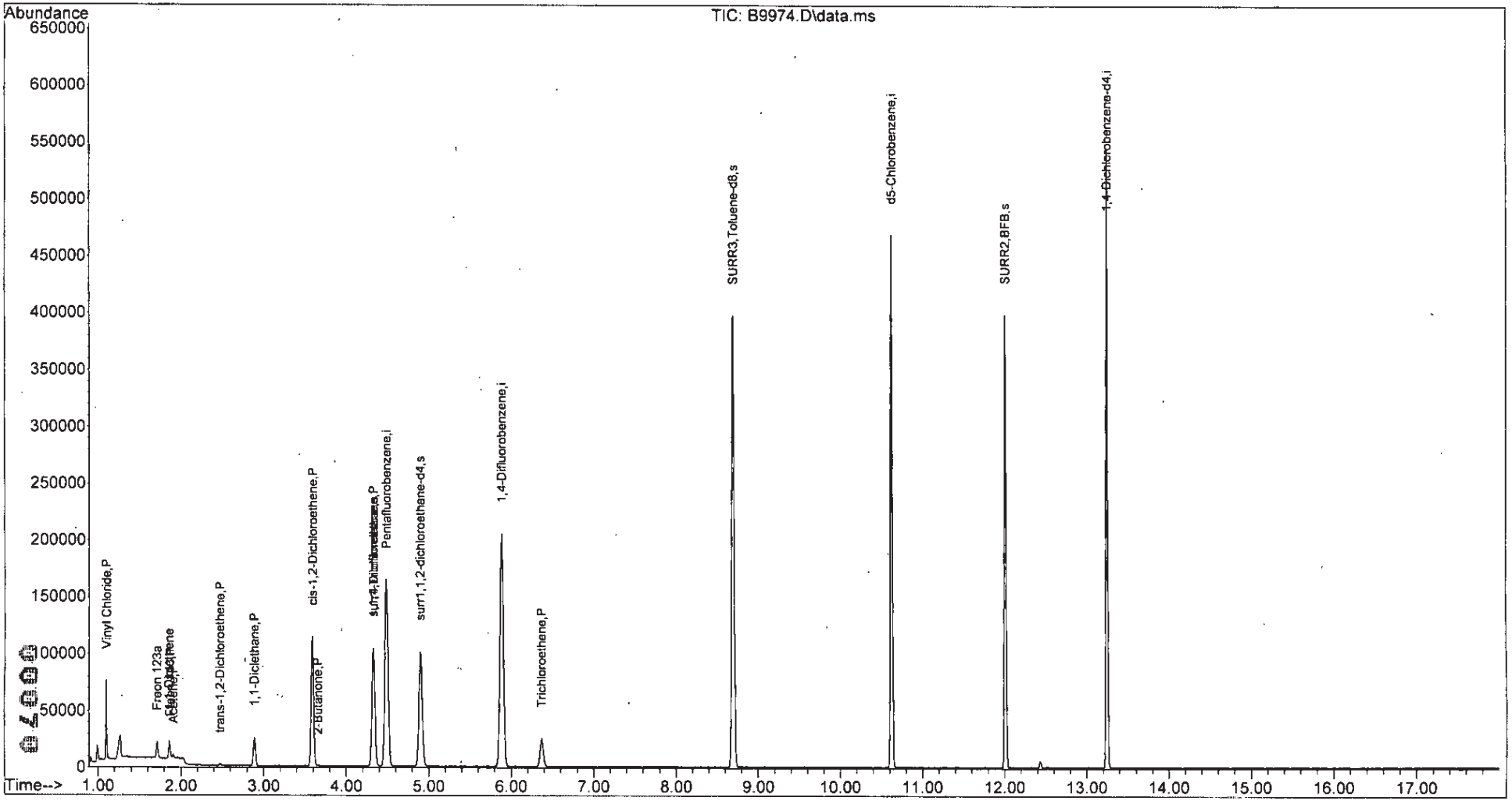
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	155056	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.886	114	259978	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.623	117	232335	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.244	152	110376	50.00	ug/L	0.01
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.331	113	78124	49.31	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 98.62%			
48) surr1,1,2-dichloroetha...	4.898	65	100914	50.78	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.56%			
65) SURR3,Toluene-d8	8.696	98	304652	51.02	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.04%			
70) SURR2,BFB	12.006	95	117731	50.10	ug/L	0.01
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.20%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.100	62	28744	15.31	ug/L	96
11) Freon 123a	1.710	67	4912	2.44	ug/L	93
14) 1,1-Diclethene	1.856	96	2868	1.80	ug/L	95
15) Freon 113	1.868	101	1910	1.34	ug/L	90
16) Acetone	1.905	43	2515	3.24	ug/L	98
27) trans-1,2-Dichloroethene	2.472	96	575	0.35	ug/L #	81
28) 1,1-Diclethane	2.886	63	21756	7.78	ug/L	100
34) cis-1,2-Dichloroethene	3.593	96	56148	30.59	ug/L	84
35) 2-Butanone	3.654	43	619	0.56	ug/L	94
41) 1,1,1-Trichloroethane	4.331	97	2703	1.08	ug/L	97
54) Trichloroethene	6.367	130	12001	7.08	ug/L	93

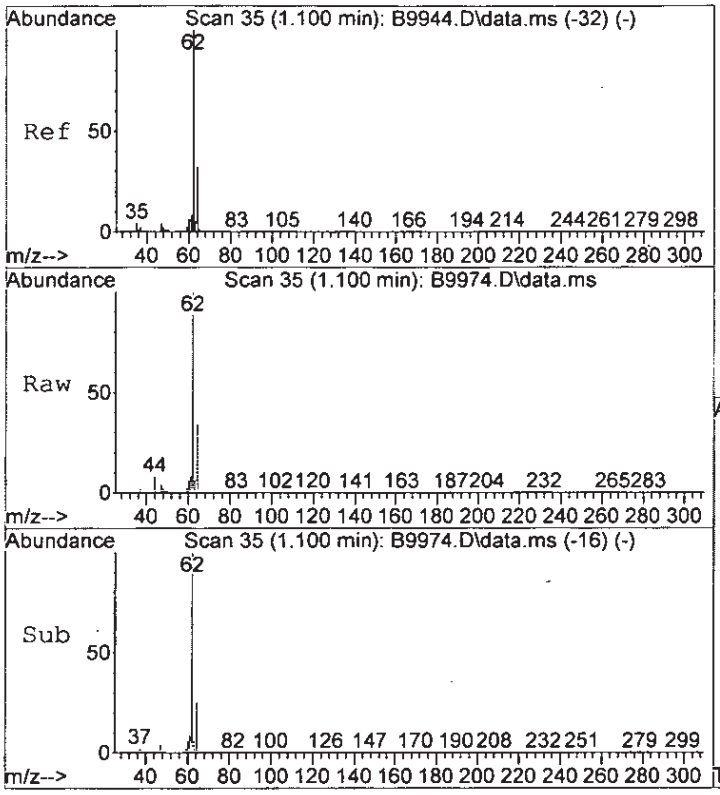
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9974.D
Acq On : 23 Mar 2015 4:36 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-006|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 25 10:38:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

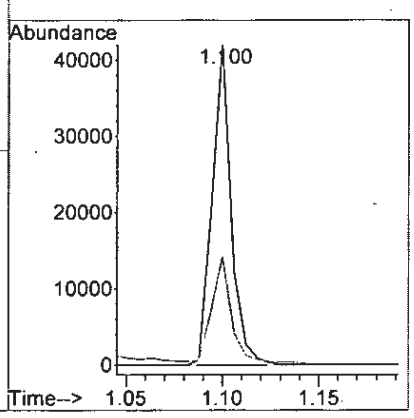


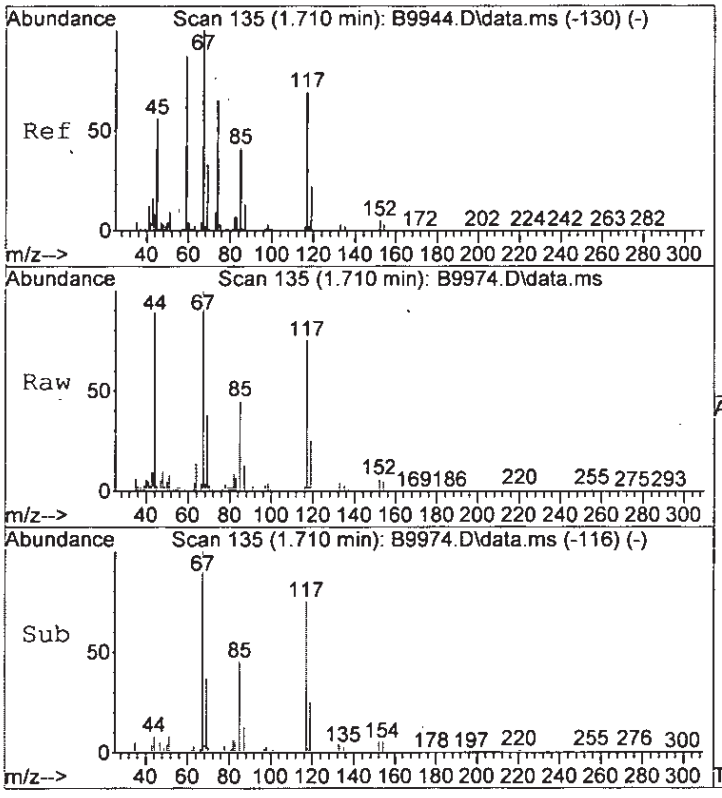


#5
Vinyl Chloride
Concen: 15.31 ug/L
RT: 1.100 min Scan# 35
Delta R.T. -0.000 min
Lab File: B9974.D
Acq: 23 Mar 2015 4:36 pm

Tgt Ion: 62 Resp: 28744

Ion	Ratio	Lower	Upper
62	100		
64	33.9	11.6	51.6

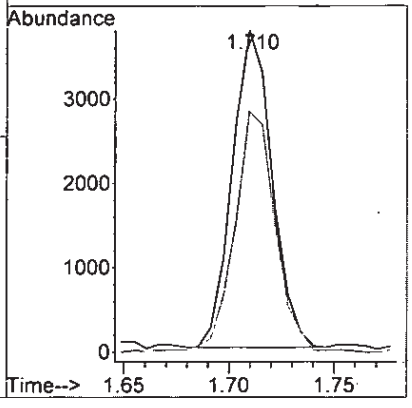


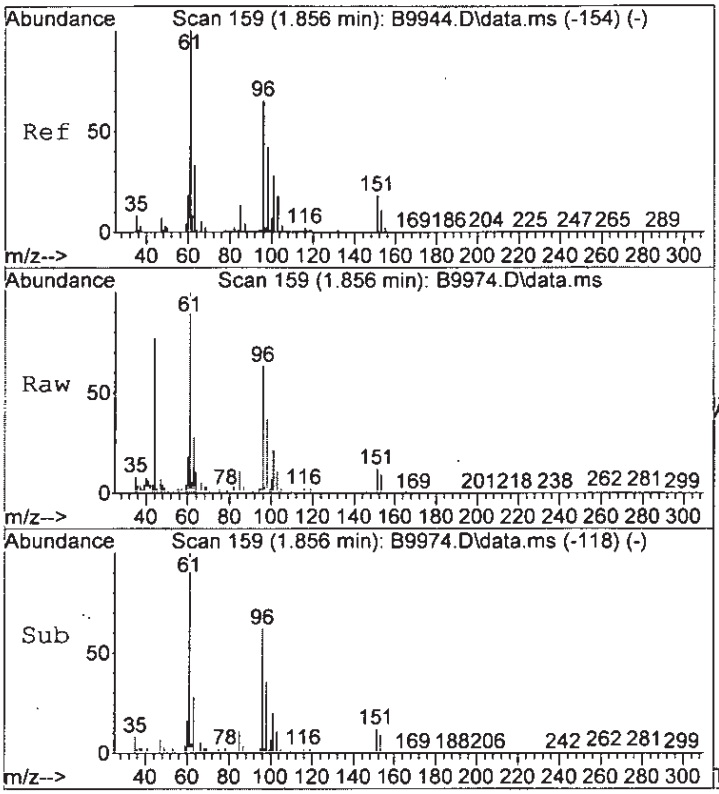


#11
Freon 123a
Concen: 2.44 ug/L
RT: 1.710 min Scan# 135
Delta R.T. -0.000 min
Lab File: B9974.D
Acq: 23 Mar 2015 4:36 pm

Tgt Ion: 67 Resp: 4912

Ion	Ratio	Lower	Upper
67	100		
117	74.9	49.5	89.5

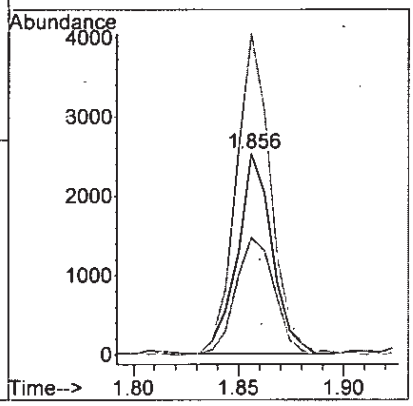


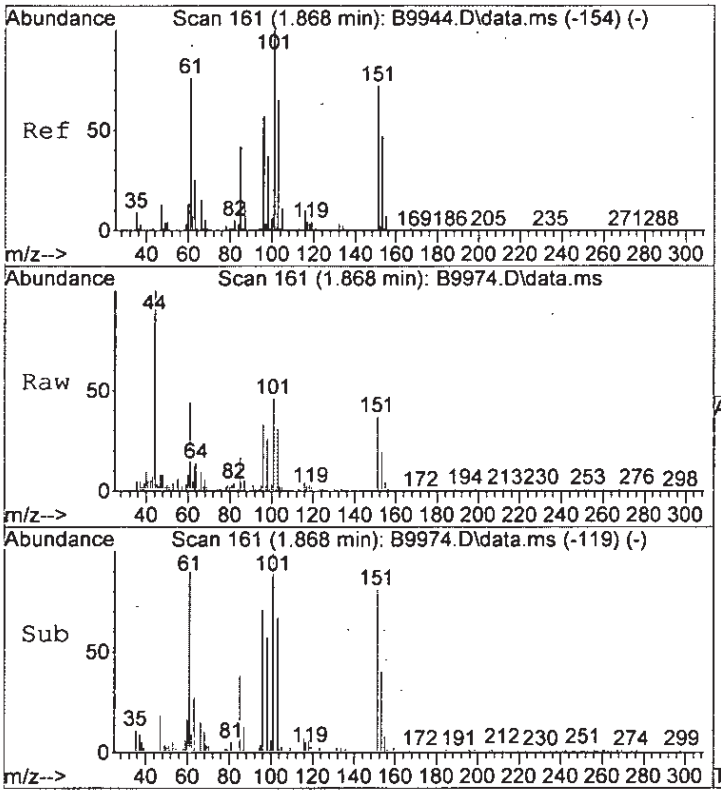


#14
1,1-Diclethene
Concen: 1.80 ug/L
RT: 1.856 min Scan# 159
Delta R.T. -0.000 min
Lab File: B9974.D
Acq: 23 Mar 2015 4:36 pm

Tgt Ion: 96 Resp: 2868

Ion	Ratio	Lower	Upper
96	100		
98	58.3	44.4	84.4
61	159.3	134.6	174.6

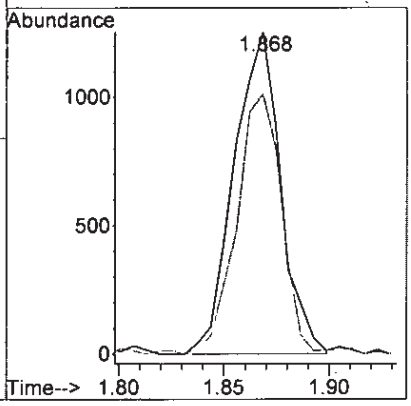


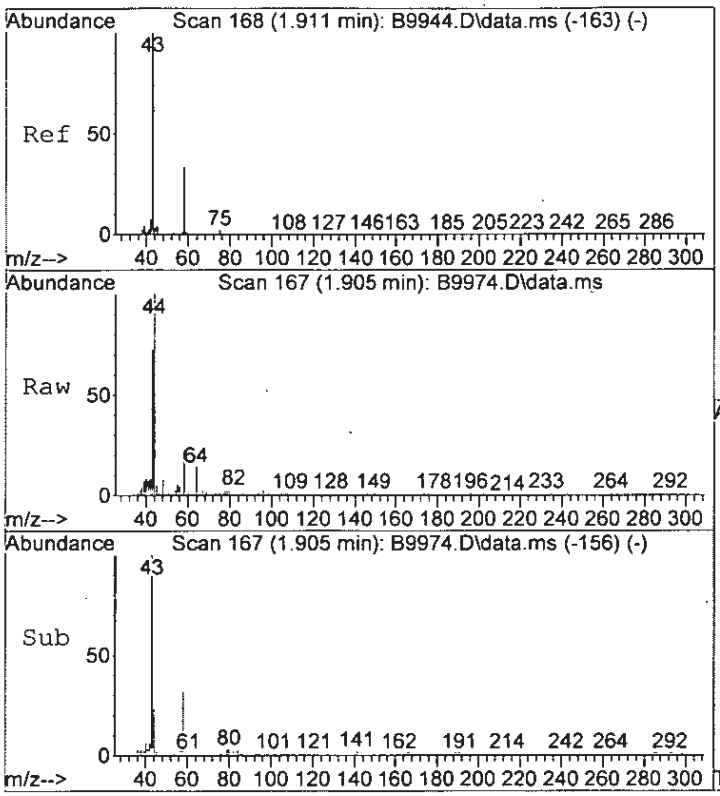


#15
Freon 113
Concen: 1.34 ug/L
RT: 1.868 min Scan# 161
Delta R.T. -0.000 min
Lab File: B9974.D
Acq: 23 Mar 2015 4:36 pm

Tgt Ion:101 Resp: 1910

Ion	Ratio	Lower	Upper
101	100		
151	80.8	52.3	92.3

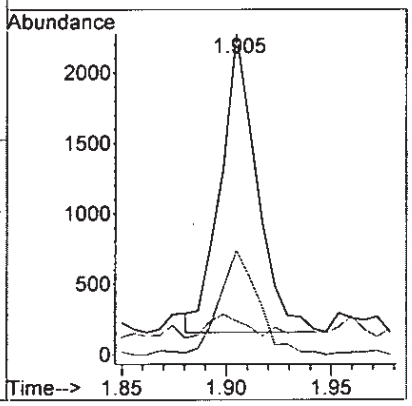


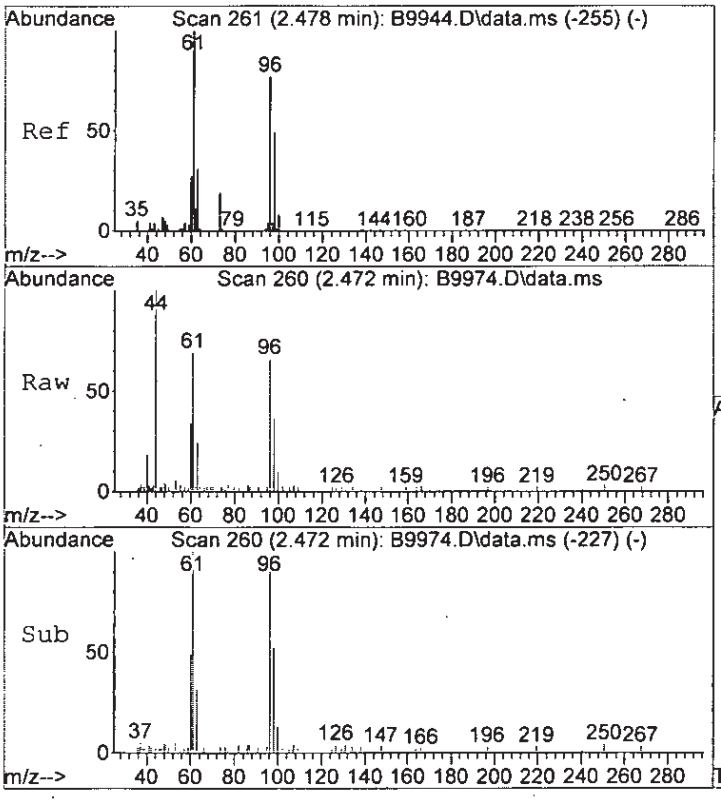


#16
Acetone
Concen: 3.24 ug/L
RT: 1.905 min Scan# 167
Delta R.T. -0.005 min
Lab File: B9974.D
Acq: 23 Mar 2015 4:36 pm

Tgt Ion: 43 Resp: 2515

Ion	Ratio	Lower	Upper
43	100		
58	32.5	12.4	52.4
42	10.5	0.0	27.6

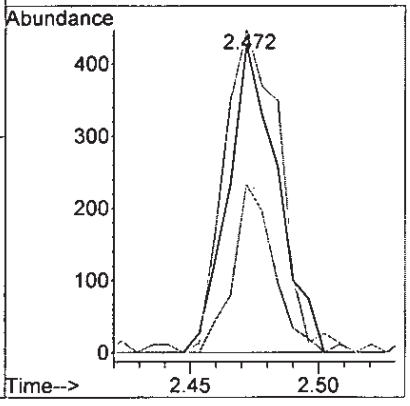


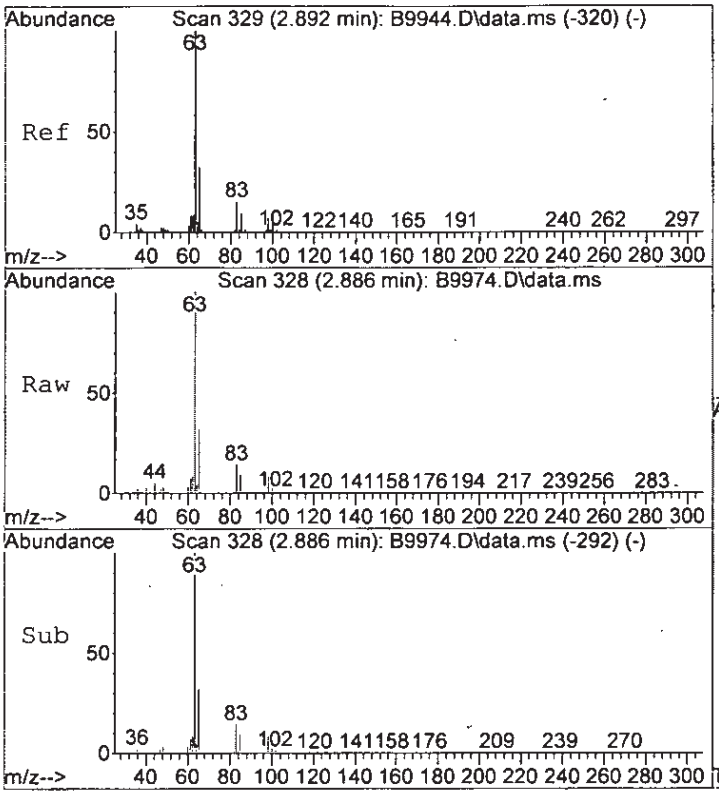


#27
trans-1,2-Dichloroethene
Concen: 0.35 ug/L
RT: 2.472 min Scan# 260
Delta R.T. -0.006 min
Lab File: B9974.D
Acq: 23 Mar 2015 4:36 pm

Tgt Ion: 96 Resp: 575

Ion	Ratio	Lower	Upper
96	100		
98	54.7	44.3	84.3
61	104.9	110.7	150.7#

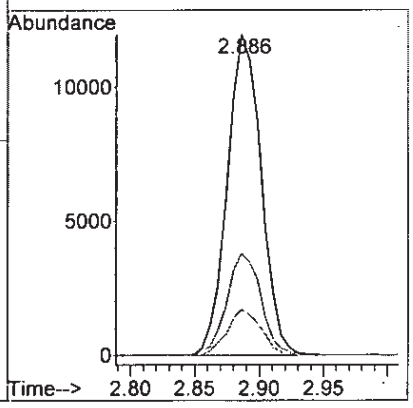


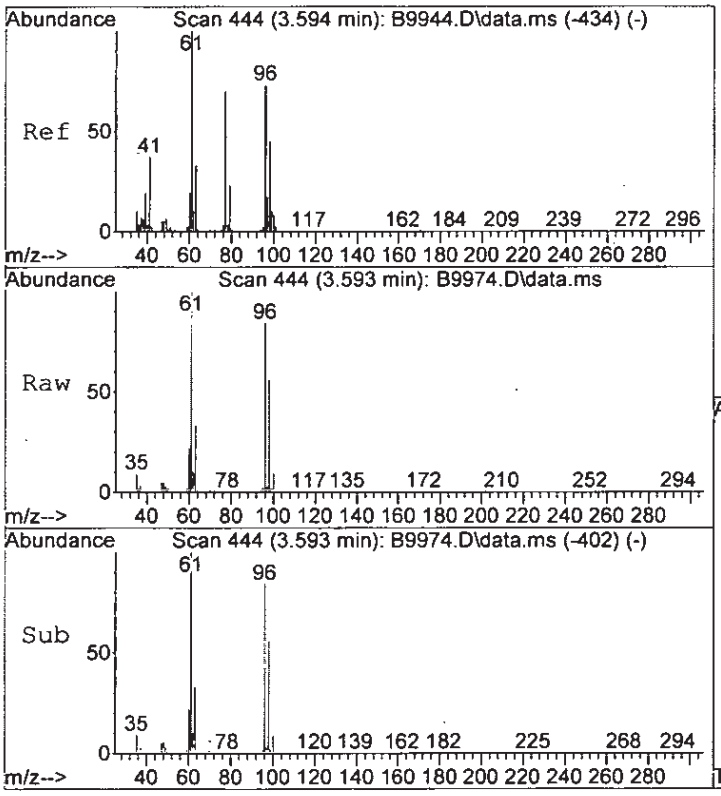


#28
1,1-Diclethane
Concen: 7.78 ug/L
RT: 2.886 min Scan# 328
Delta R.T. -0.006 min
Lab File: B9974.D
Acq: 23 Mar 2015 4:36 pm

Tgt Ion: 63 Resp: 21756

Ion	Ratio	Lower	Upper
63	100		
65	31.8	11.7	51.7
83	14.3	0.0	34.7

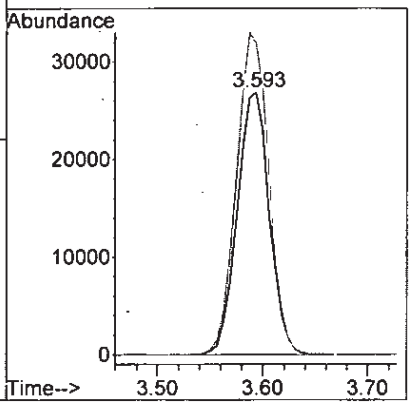


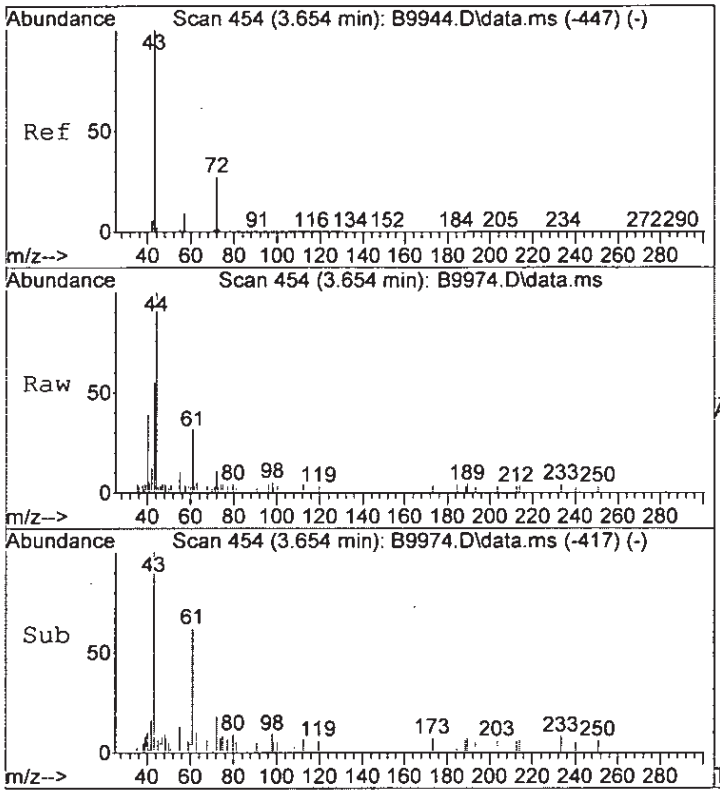


#34
cis-1,2-Dichloroethene
Concen: 30.59 ug/L
RT: 3.593 min Scan# 444
Delta R.T. -0.000 min
Lab File: B9974.D
Acq: 23 Mar 2015 4:36 pm

Tgt Ion: 96 Resp: 56148

Ion	Ratio	Lower	Upper
96	100		
61	118.4	118.0	158.0

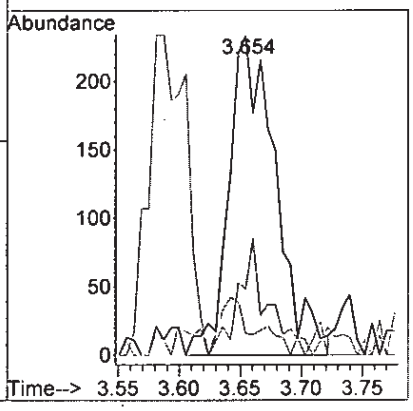


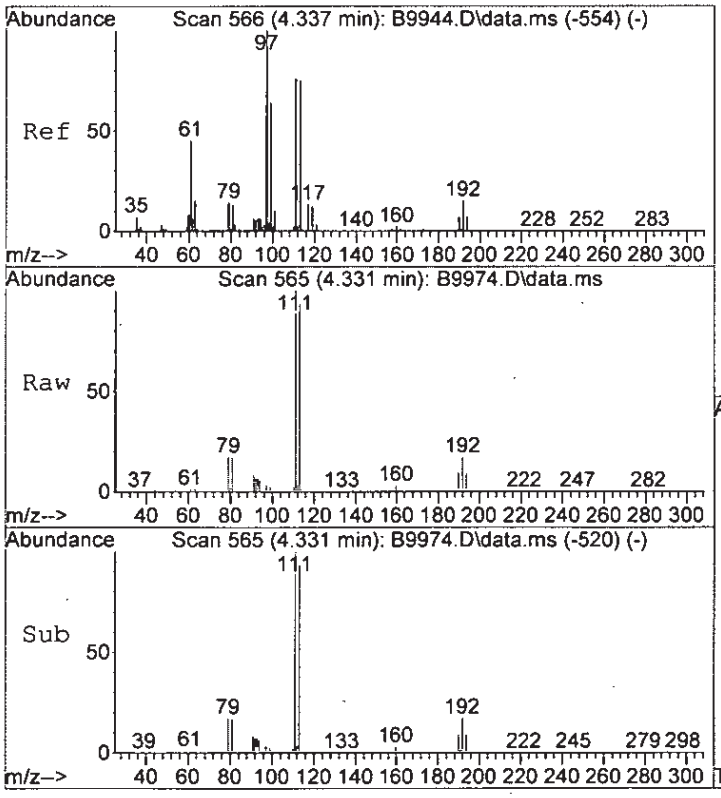


#35
2-Butanone
Concen: 0.56 ug/L
RT: 3.654 min Scan# 454
Delta R.T. -0.000 min
Lab File: B9974.D
Acq: 23 Mar 2015 4:36 pm

Tgt Ion: 43 Resp: 619

Ion	Ratio	Lower	Upper
43	100		
72	25.3	8.5	48.5
57	6.9	0.0	29.4

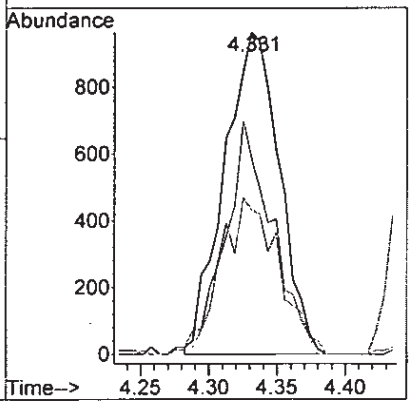


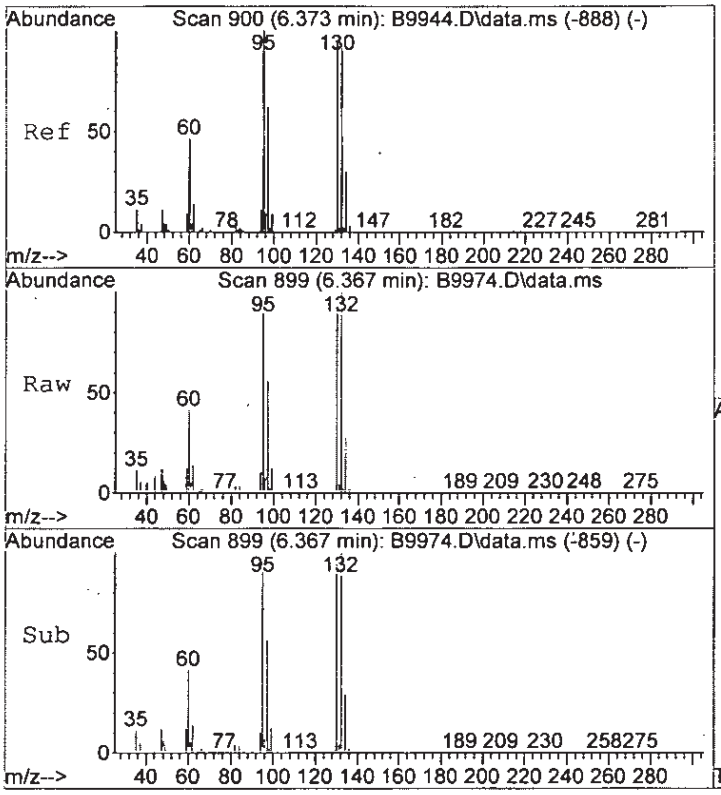


#41
1,1,1-Trichloroethane
Concen: 1.08 ug/L
RT: 4.331 min Scan# 565
Delta R.T. -0.006 min
Lab File: B9974.D
Acq: 23 Mar 2015 4:36 pm

Tgt Ion: 97 Resp: 2703

Ion	Ratio	Lower	Upper
97	100		
99	60.9	44.2	84.2
61	44.8	25.1	65.1

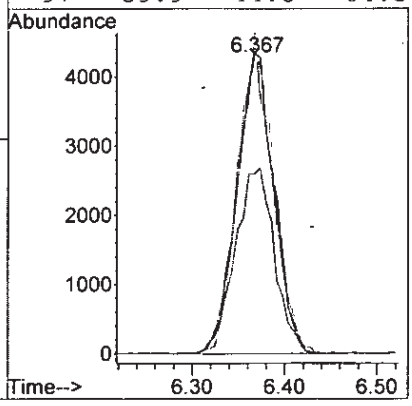




#54
Trichloroethene
Concen: 7.08 ug/L
RT: 6.367 min Scan# 899
Delta R.T. -0.006 min
Lab File: B9974.D
Acq: 23 Mar 2015 4:36 pm

Tgt Ion:130 Resp: 12001

Ion	Ratio	Lower	Upper
130	100		
132	106.7	75.3	115.3
95	101.8	84.8	124.8
97	59.9	44.5	84.5



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 17:00
Sample Name:	DUP031815	**Units:**	µg/L
Lab Code:	R1501980-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9975.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**1.6**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**12**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**4.6**	J	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**7.8**		5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	3/23/15 17:00	
Dibromofluoromethane	99	89-119	3/23/15 17:00	
Toluene-d8	100	87-121	3/23/15 17:00	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9975.D
Acq On : 23 Mar 2015 5:00 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-007|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 25 10:40:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

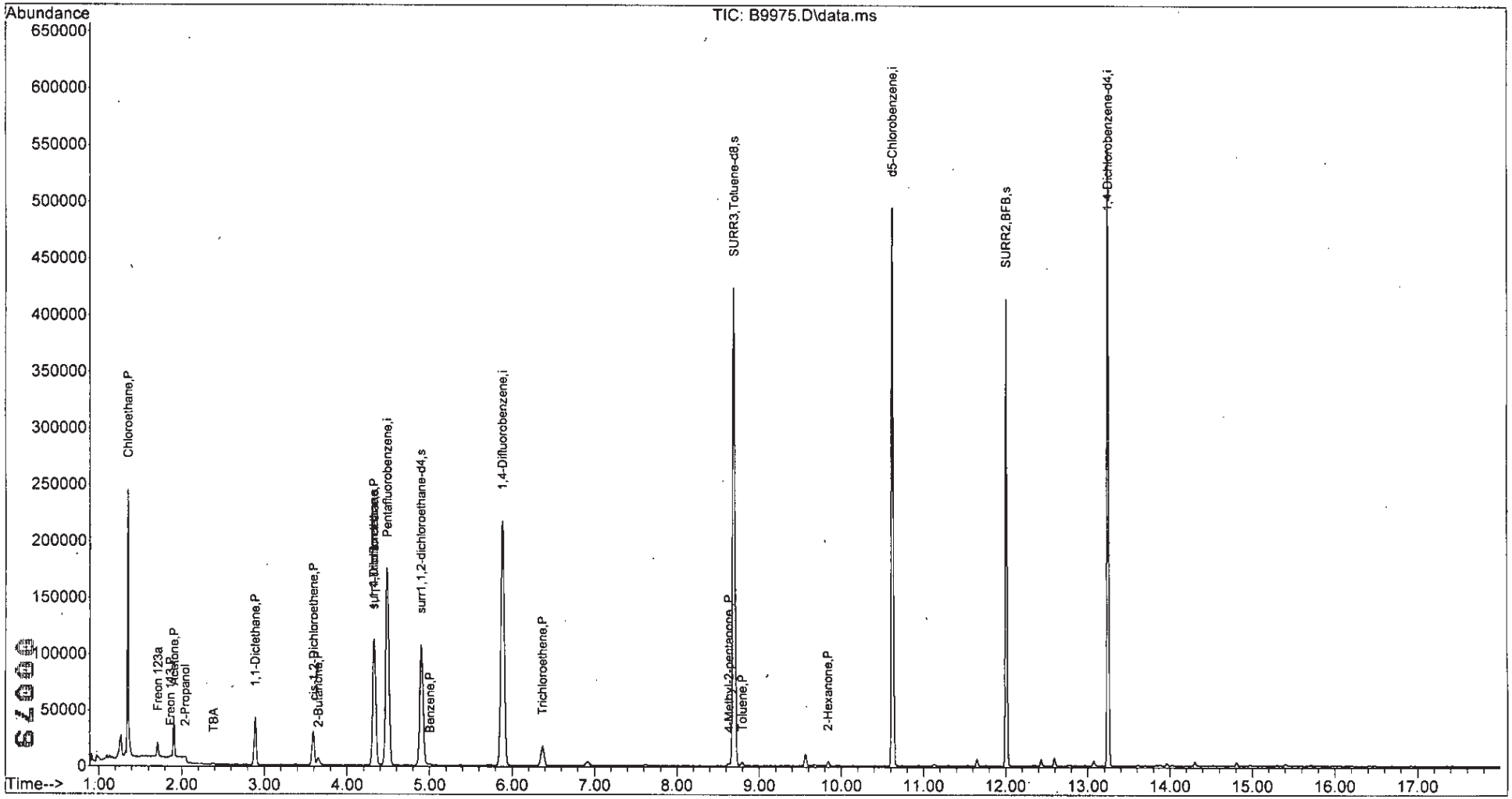
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	167100	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.886	114	278052	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.623	117	245859	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.244	152	116543	50.00	ug/L	0.01
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.325	113	84286	49.74	ug/L	-0.01
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.48%			
48) surr1,1,2-dichloroetha...	4.898	65	108441	51.02	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.04%			
65) SURR3,Toluene-d8	8.696	98	319488	50.03	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.06%			
70) SURR2,BFB	12.007	95	120534	47.95	ug/L	0.01
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.90%			
Target Compounds						Qvalue
7) Chloroethane	1.350	64	113225	85.39	ug/L	97
11) Freon 123a	1.710	67	4425	2.04	ug/L	98
15) Freon 113	1.862	101	411	0.27	ug/L	93
16) Acetone	1.905	43	27695	33.08	ug/L	99
17) 2-Propanol	2.039	45	1485	7.75	ug/L	58
24) TBA	2.380	59	1049	3.42	ug/L	96
28) 1,1-Diclethane	2.886	63	36257	12.04	ug/L	96
34) cis-1,2-Dichloroethene	3.594	96	15381	7.78	ug/L #	78
35) 2-Butanone	3.648	43	8717	7.36	ug/L	98
41) 1,1,1-Trichloroethane	4.325	97	4193	1.55	ug/L	87
49) Benzene	5.002	78	1695	0.23	ug/L	95
54) Trichloroethene	6.367	130	8333	4.59	ug/L	93
64) 4-Methyl-2-pentanone	8.629	43	1823	0.81	ug/L	94
66) Toluene	8.794	91	2918	0.38	ug/L	91
73) 2-Hexanone	9.836	43	2810	1.68	ug/L	97

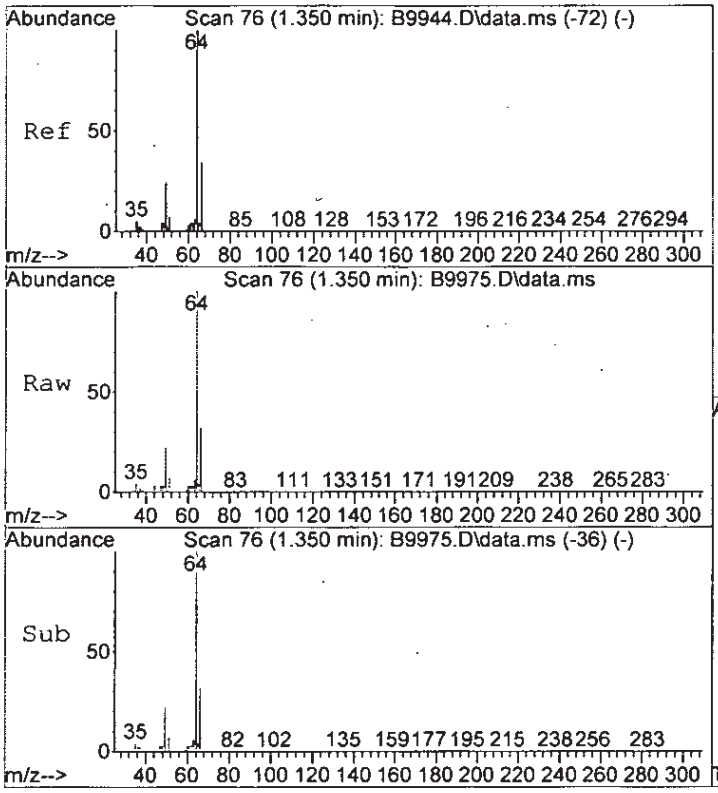
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9975.D
Acq On : 23 Mar 2015 5:00 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-007|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 25 10:40:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

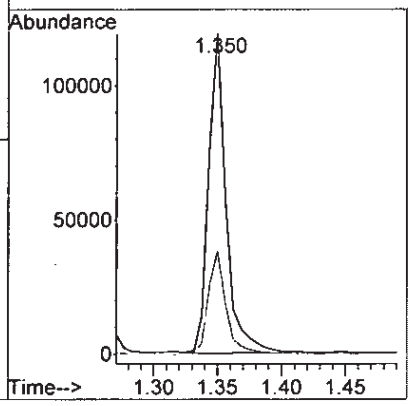


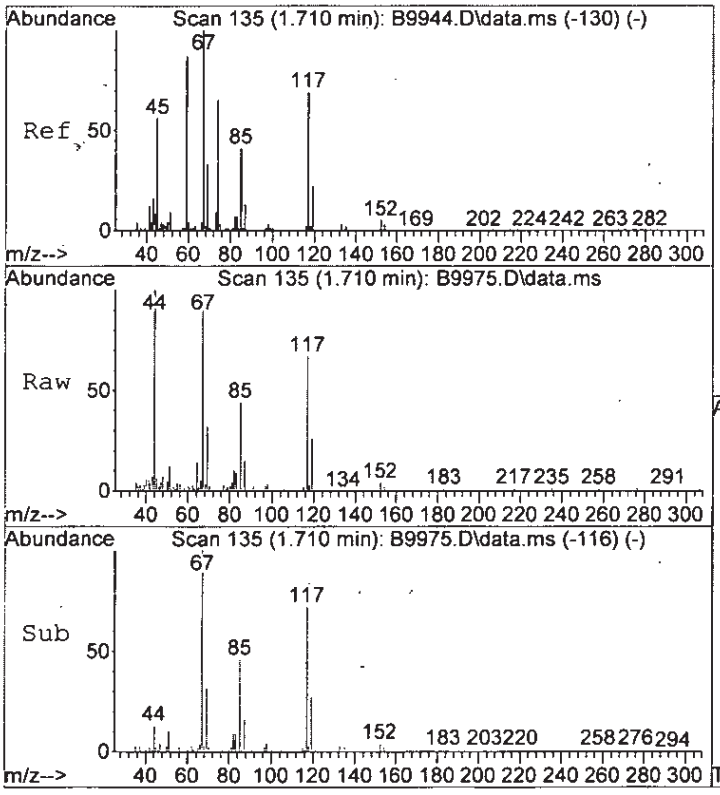


#7
Chloroethane
Concen: 85.39 ug/L
RT: 1.350 min Scan# 76
Delta R.T. 0.000 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion: 64 Resp: 113225

Ion	Ratio	Lower	Upper
64	100		
66	32.2	13.6	53.6

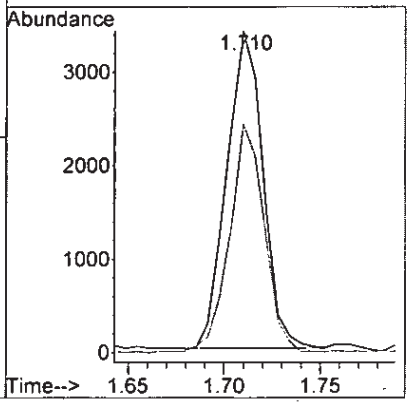


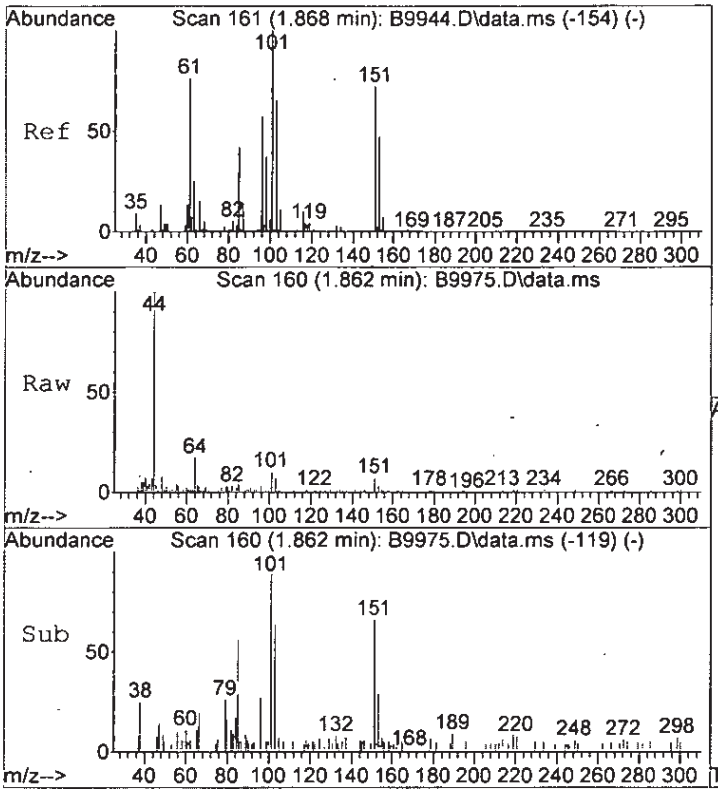


#11
Freon 123a
Concen: 2.04 ug/L
RT: 1.710 min Scan# 135
Delta R.T. 0.000 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion: 67 Resp: 4425

Ion	Ratio	Lower	Upper
67	100		
117	71.0	49.5	89.5

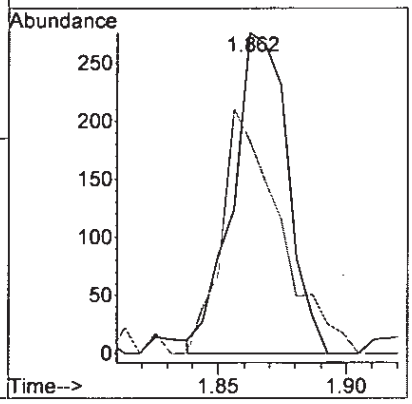


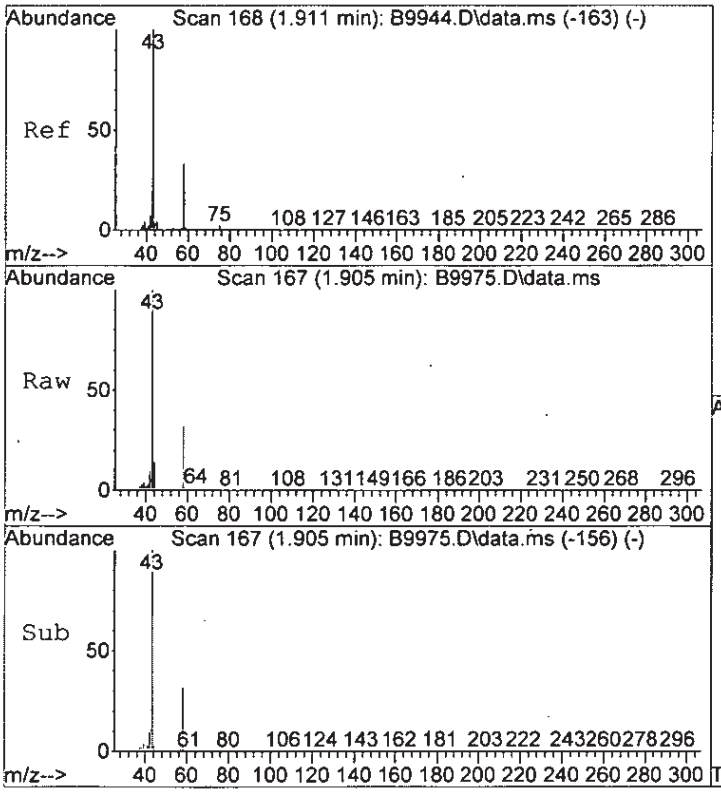


#15
Freon 113
Concen: 0.27 ug/L
RT: 1.862 min Scan# 160
Delta R.T. -0.006 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion:101 Resp: 411

Ion	Ratio	Lower	Upper
101	100		
151	66.3	52.3	92.3

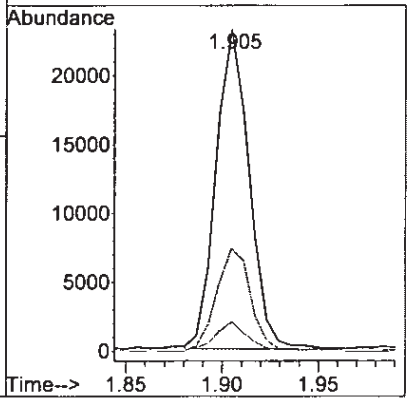


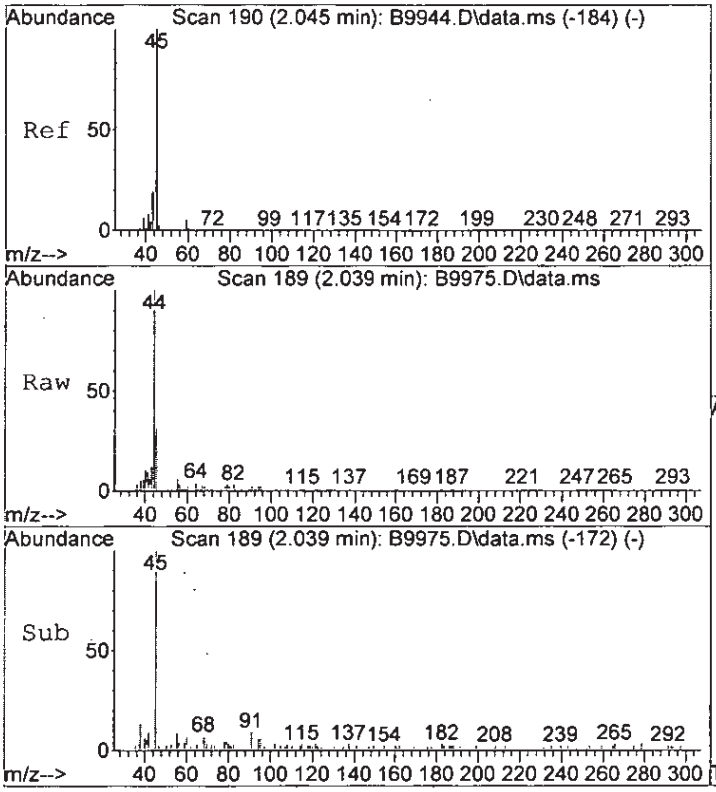


#16
Acetone
Concen: 33.08 ug/L
RT: 1.905 min Scan# 167
Delta R.T. -0.005 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion: 43 Resp: 27695

Ion	Ratio	Lower	Upper
43	100		
58	32.0	12.4	52.4
42	9.0	0.0	27.6

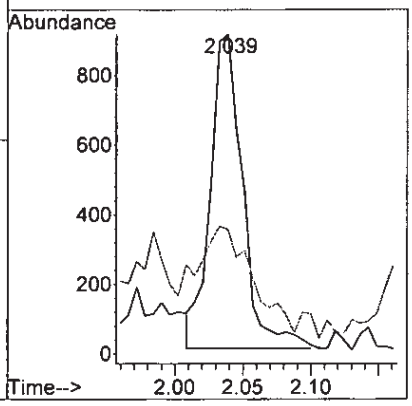


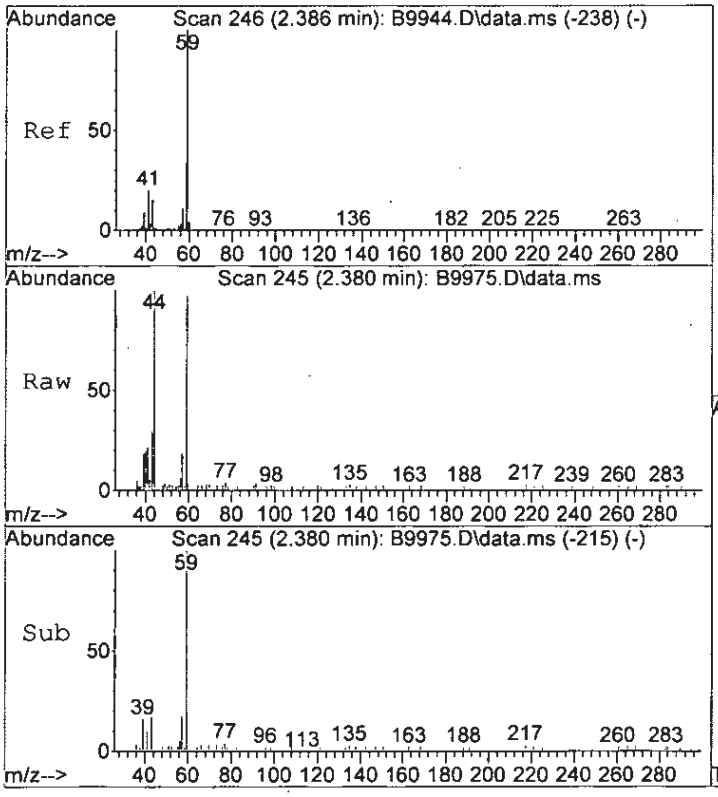


#17
2-Propanol
Concen: 7.75 ug/L
RT: 2.039 min Scan# 189
Delta R.T. -0.006 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion: 45 Resp: 1485

Ion	Ratio	Lower	Upper
45	100		
43	38.9	0.0	39.6

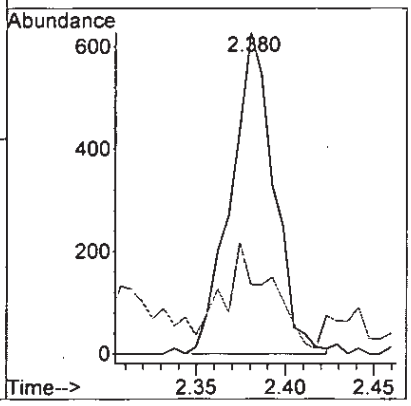


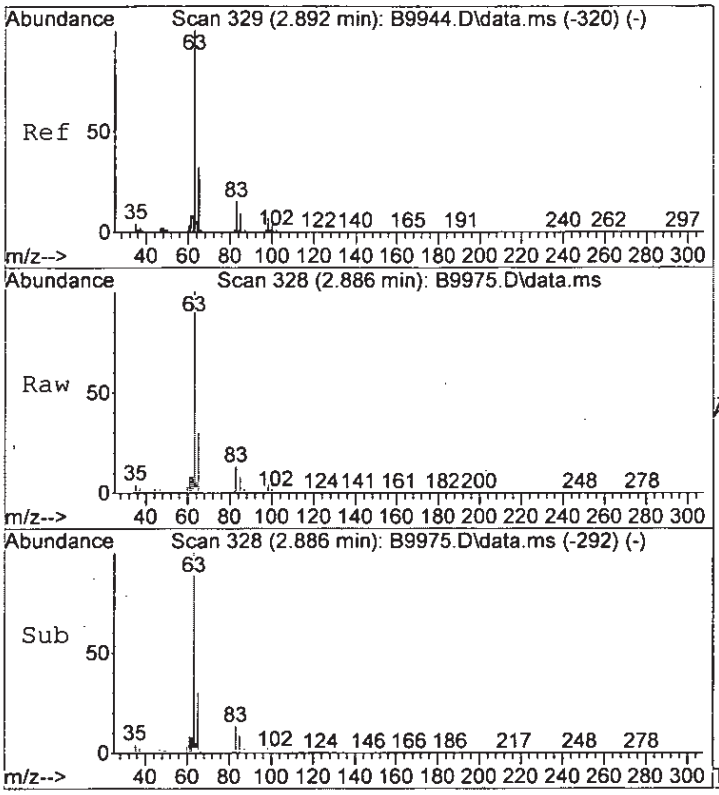


#24
TBA
Concen: 3.42 ug/L
RT: 2.380 min Scan# 245
Delta R.T. -0.006 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion: 59 Resp: 1049

Ion	Ratio	Lower	Upper
59	100		
41	21.7	0.0	39.8

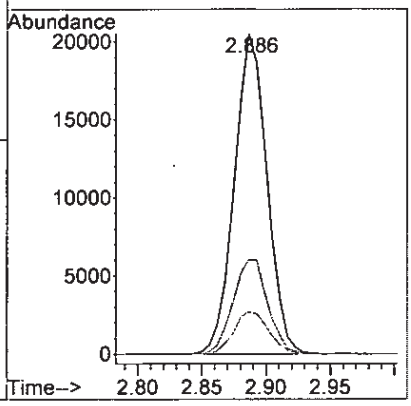


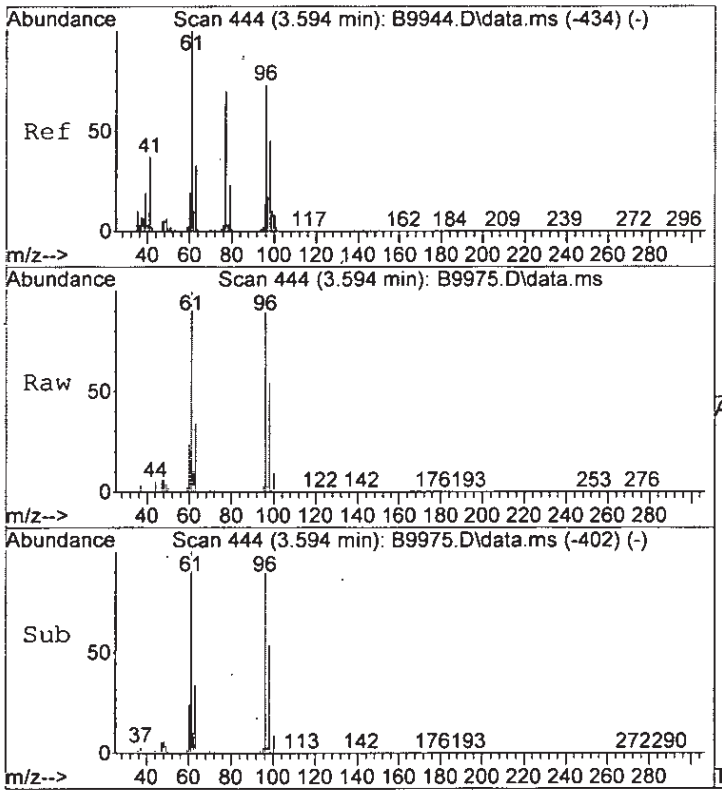


#28
1,1-Diclethane
Concen: 12.04 ug/L
RT: 2.886 min Scan# 328
Delta R.T. -0.006 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion: 63 Resp: 36257

Ion	Ratio	Lower	Upper
63	100		
65	29.5	11.7	51.7
83	13.2	0.0	34.7

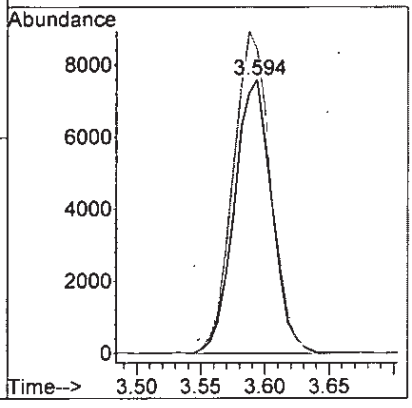


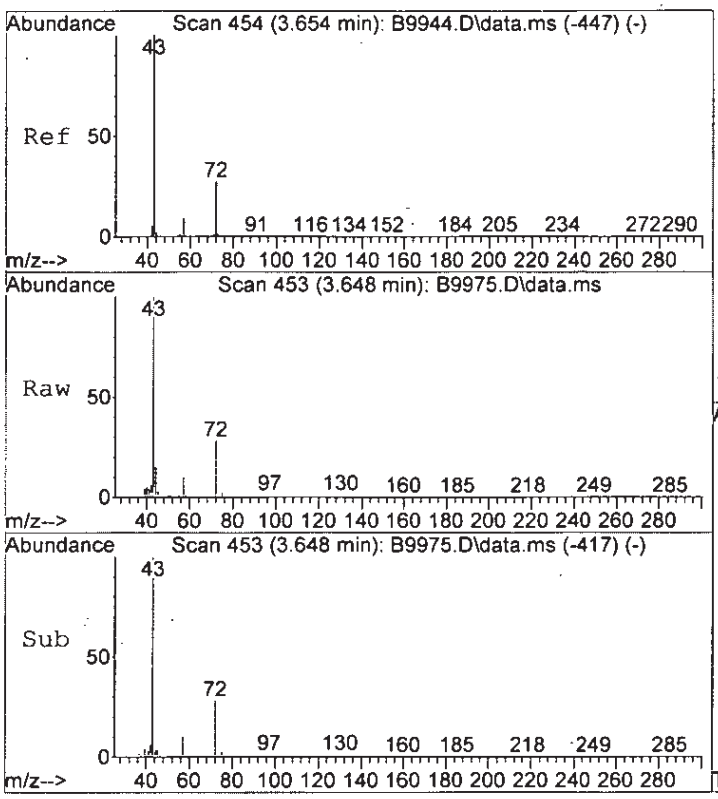


#34
cis-1,2-Dichloroethene
Concen: 7.78 ug/L
RT: 3.594 min Scan# 444
Delta R.T. 0.000 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion: 96 Resp: 15381

Ion	Ratio	Lower	Upper
96	100		
61	111.1	118.0	158.0#

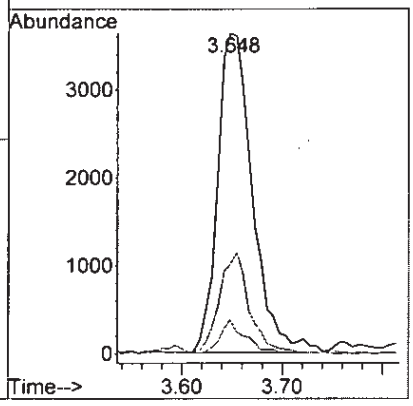


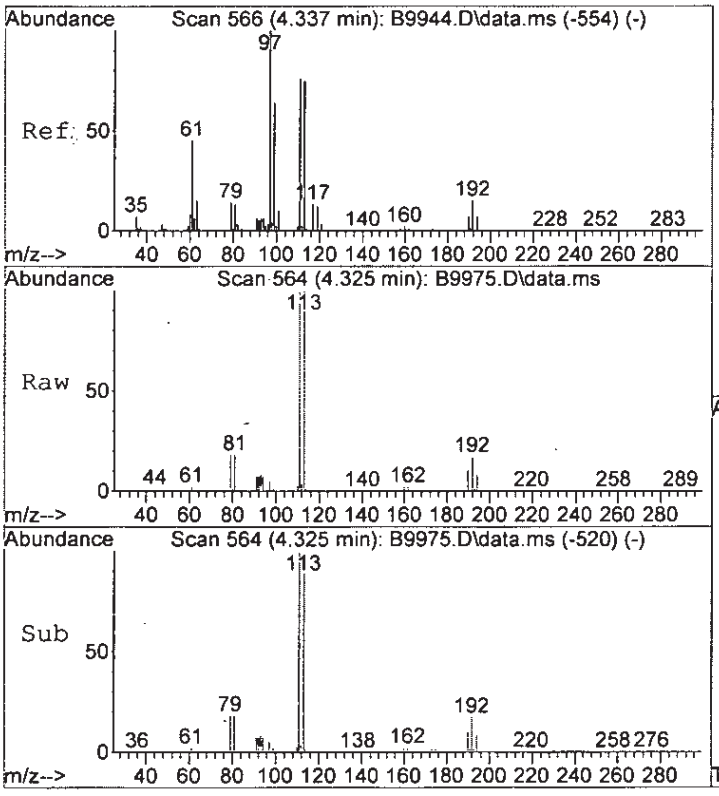


#35
2-Butanone
Concen: 7.36 ug/L
RT: 3.648 min Scan# 453
Delta R.T. -0.006 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion: 43 Resp: 8717

Ion	Ratio	Lower	Upper
43	100		
72	27.9	8.5	48.5
57	10.4	0.0	29.4

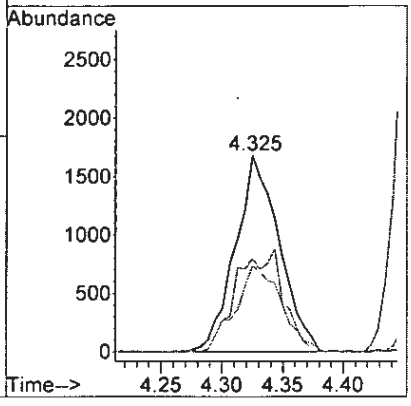


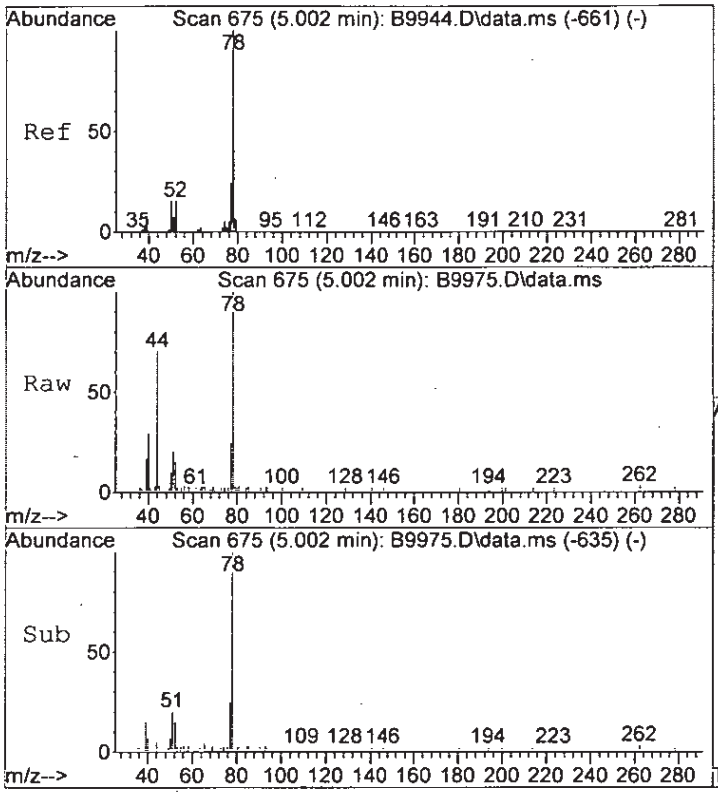


#41
1,1,1-Trichloroethane
Concen: 1.55 ug/L
RT: 4.325 min Scan# 564
Delta R.T. -0.012 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion: 97 Resp: 4193

Ion	Ratio	Lower	Upper
97	100		
99	47.6	44.2	84.2
61	43.6	25.1	65.1

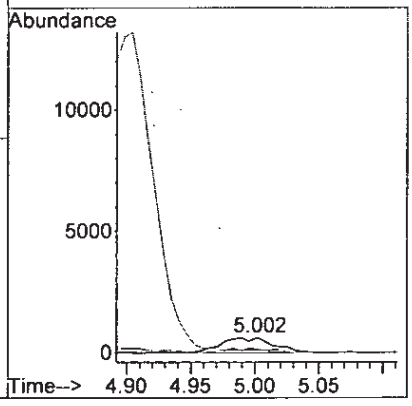


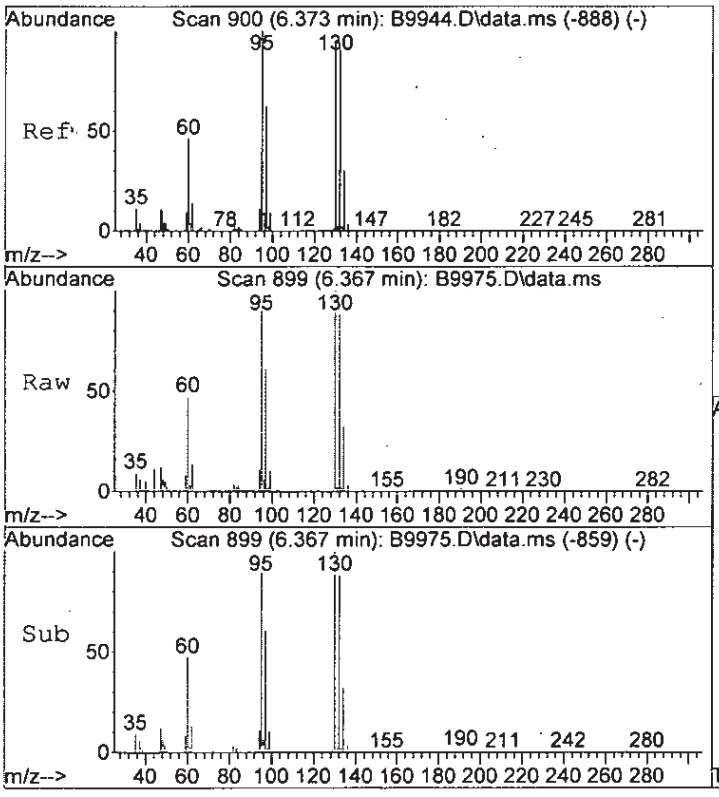


#49
Benzene
Concen: 0.23 ug/L
RT: 5.002 min Scan# 675
Delta R.T. 0.000 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion: 78 Resp: 1695

Ion	Ratio	Lower	Upper
78	100		
51	20.3	0.0	36.8
52	14.7	0.0	35.2

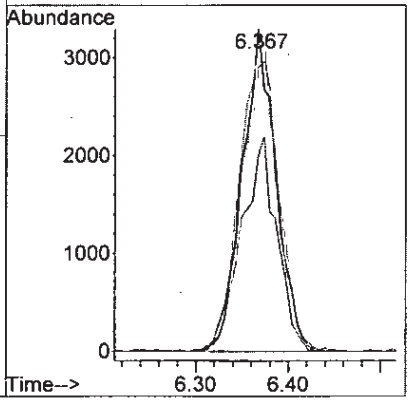


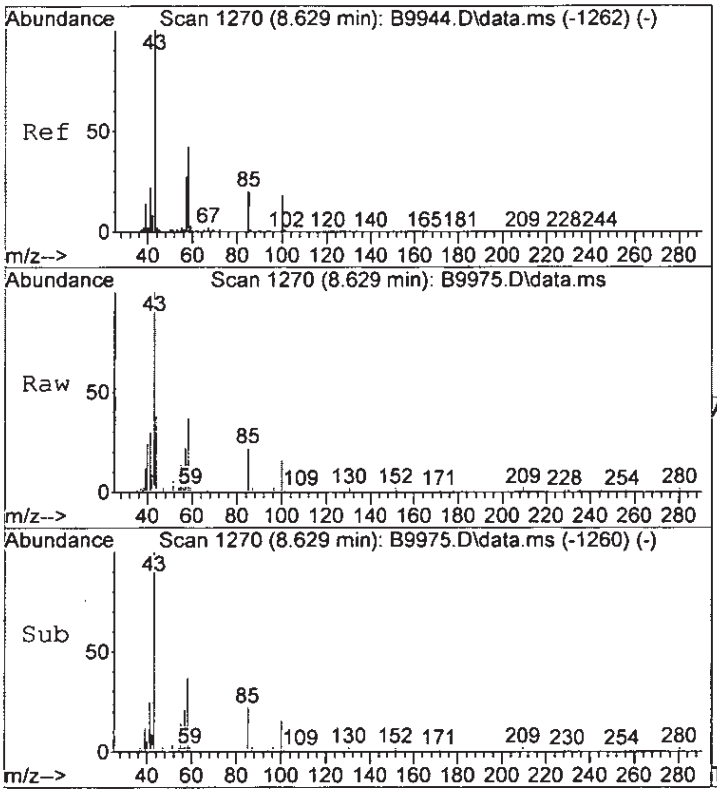


#54
Trichloroethene
Concen: 4.59 ug/L
RT: 6.367 min Scan# 899
Delta R.T. -0.006 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion:130 Resp: 8333

Ion	Ratio	Lower	Upper
130	100		
132	88.2	75.3	115.3
95	95.4	84.8	124.8
97	60.8	44.5	84.5

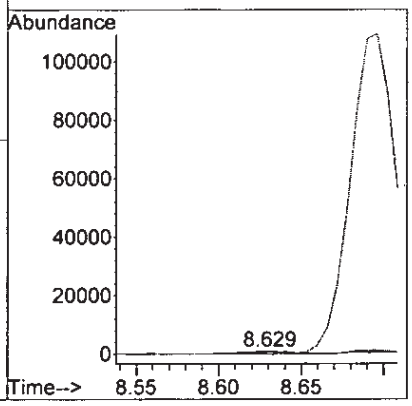


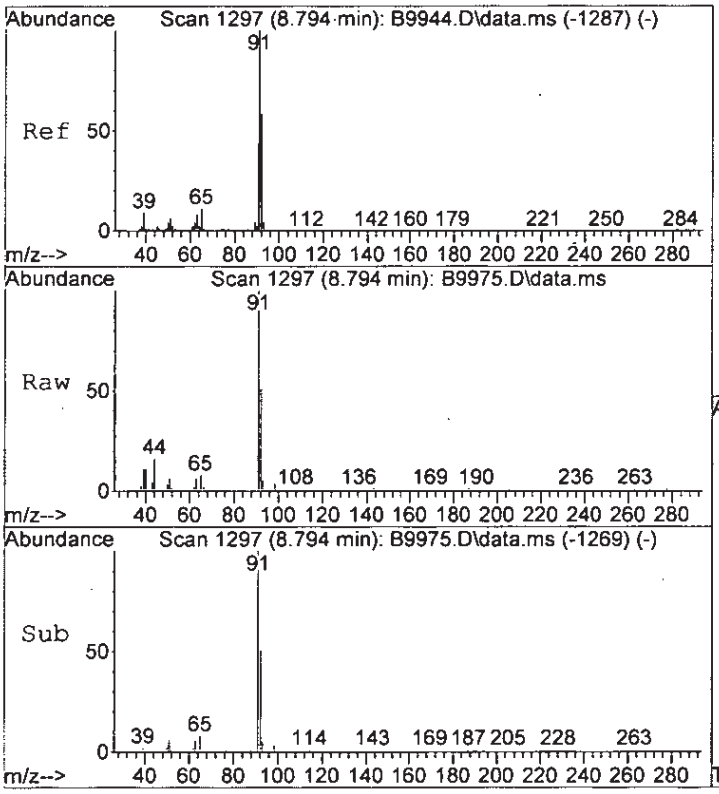


#64
4-Methyl-2-pentanone
Concen: 0.81 ug/L
RT: 8.629 min Scan# 1270
Delta R.T. 0.000 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion: 43 Resp: 1823

Ion	Ratio	Lower	Upper
43	100		
58	36.9	21.6	61.6
100	15.9	0.0	37.6

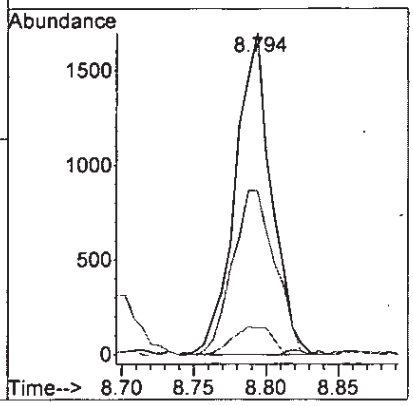


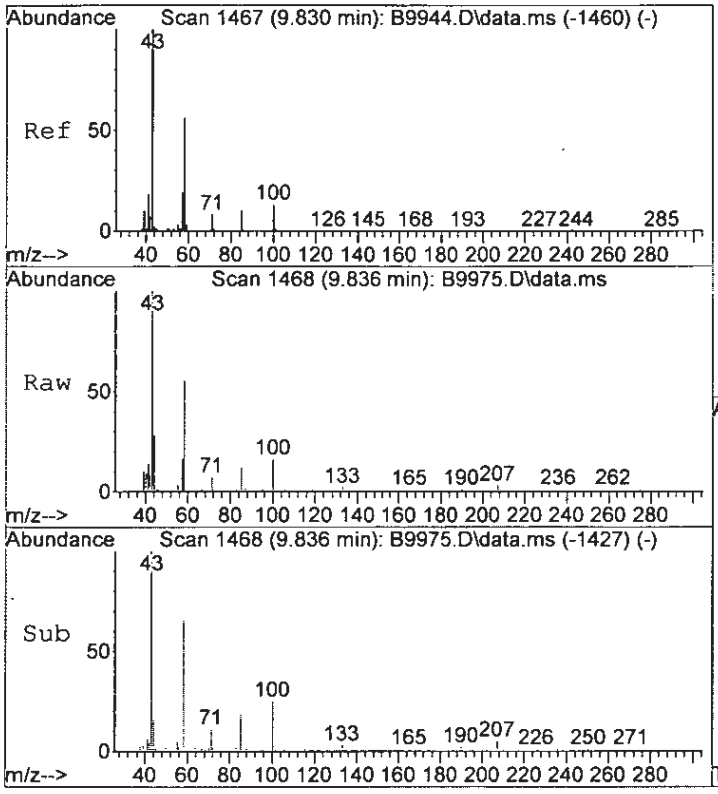


#66
Toluene
Concen: 0.38 ug/L
RT: 8.794 min Scan# 1297
Delta R.T. 0.000 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion: 91 Resp: 2918

Ion	Ratio	Lower	Upper
91	100		
92	50.8	37.9	77.9
65	8.2	0.0	31.4

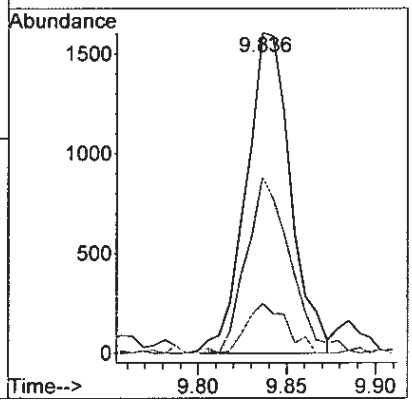




#73
2-Hexanone
Concen: 1.68 ug/L
RT: 9.836 min Scan# 1468
Delta R.T. 0.006 min
Lab File: B9975.D
Acq: 23 Mar 2015 5:00 pm

Tgt Ion: 43 Resp: 2810

Ion	Ratio	Lower	Upper
43	100		
58	55.0	36.0	76.0
100	15.6	0.0	32.6



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/19/15 1120
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 17:24
Sample Name:	MW-9	**Units:**	µg/L
Lab Code:	R1501980-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9976.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**13**		5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**0.92**	J	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	3/23/15 17:24	
Dibromofluoromethane	100	89-119	3/23/15 17:24	
Toluene-d8	102	87-121	3/23/15 17:24	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9976.D
Acq On : 23 Mar 2015 5:24 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-008|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 25 10:42:13 2015 AV 03/25/15
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

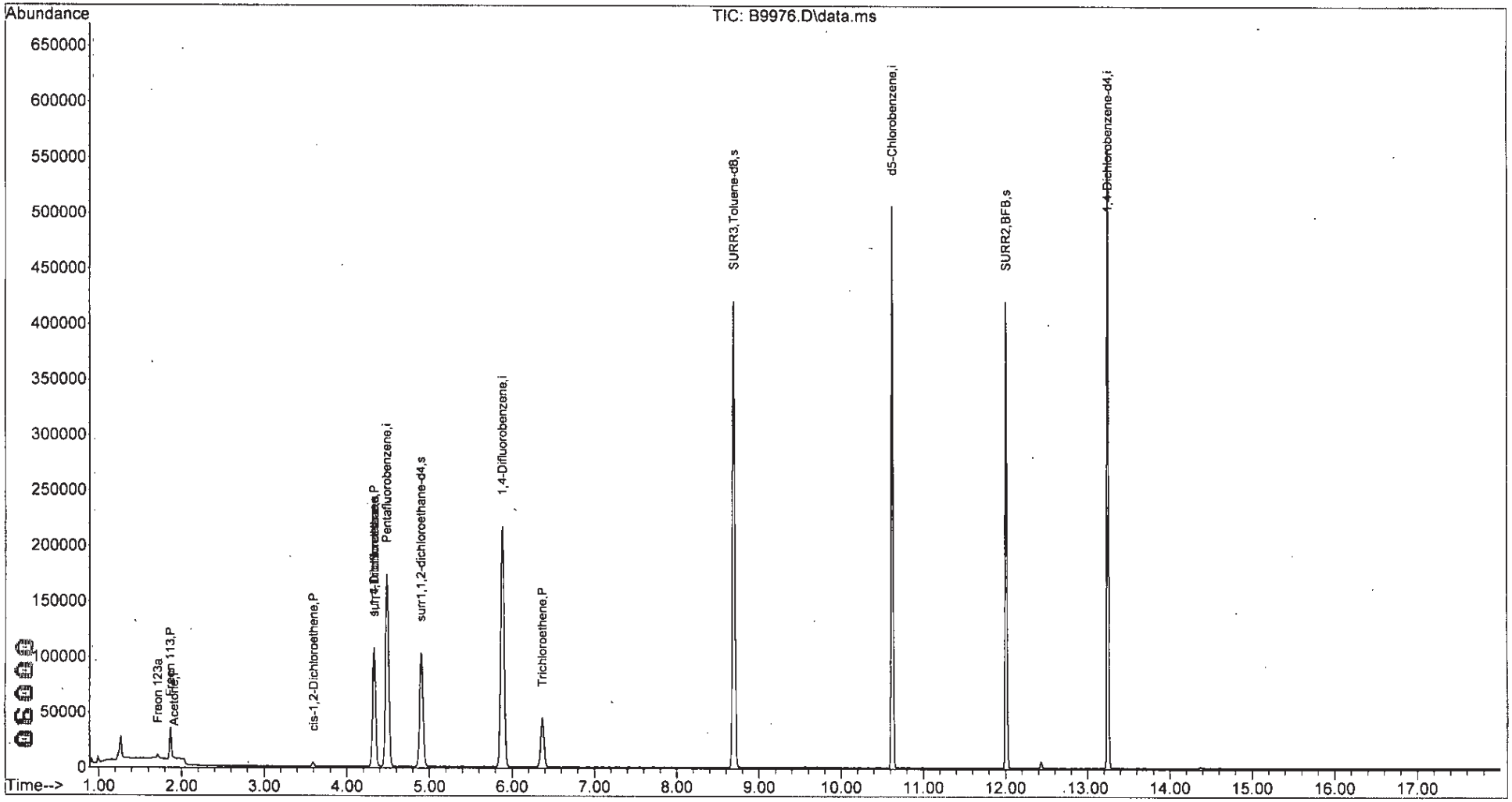
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	163487	50.00	ug/L	-0.01
43) 1,4-Difluorobenzene	5.886	114	273851	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.623	117	244186	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.244	152	117303	50.00	ug/L	0.01
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.331	113	83663	50.13	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.26%			
48) surr1,1,2-dichloroetha...	4.898	65	106791	51.02	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.04%			
65) SURR3,Toluene-d8	8.696	98	319475	50.80	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.60%			
70) SURR2,BFB	12.007	95	123361	49.83	ug/L	0.01
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.66%			
Target Compounds						Qvalue
11) Freon 123a	1.710	67	1394	0.66	ug/L	89
15) Freon 113	1.862	101	9363	6.25	ug/L	99
16) Acetone	1.905	43	1155	1.41	ug/L	92
34) cis-1,2-Dichloroethene	3.594	96	1781	0.92	ug/L #	78
41) 1,1,1-Trichloroethane	4.331	97	793	0.30	ug/L	75
54) Trichloroethene	6.367	130	22548	12.62	ug/L	95

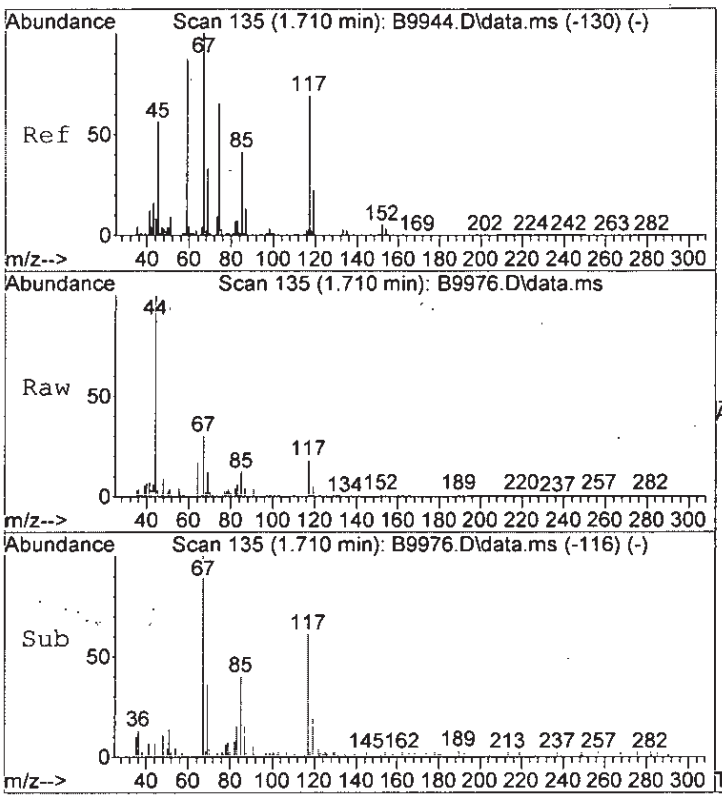
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9976.D
Acq On : 23 Mar 2015 5:24 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-008|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 25 10:42:13 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

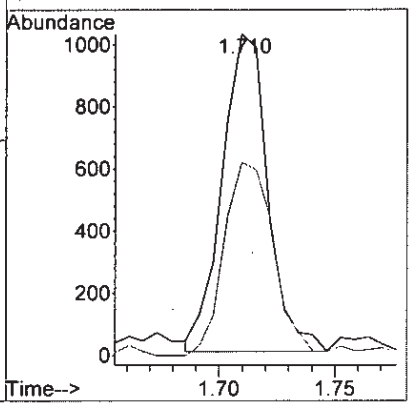


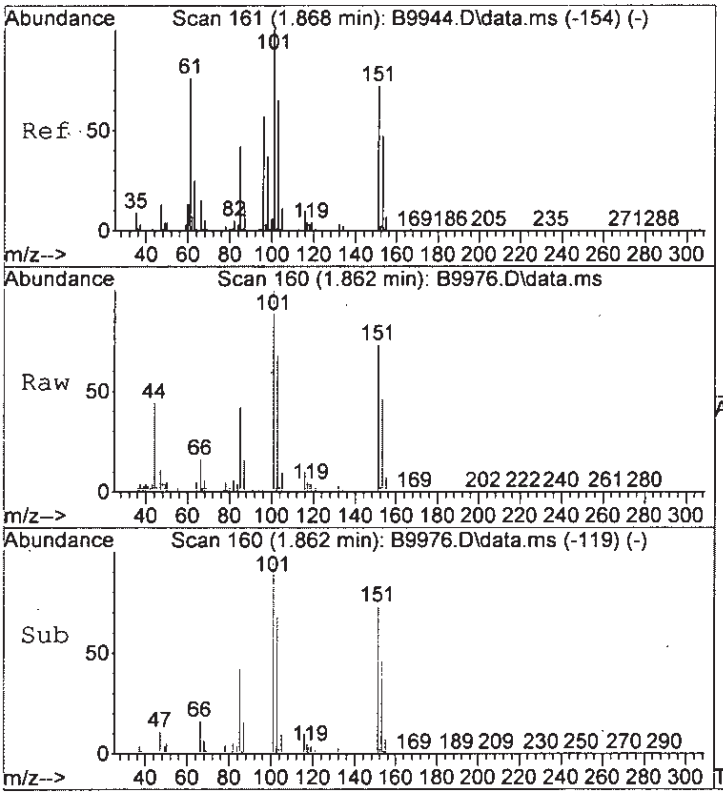


#11
Freon 123a
Concen: 0.66 ug/L
RT: 1.710 min Scan# 135
Delta R.T. 0.000 min
Lab File: B9976.D
Acq: 23 Mar 2015 5:24 pm

Tgt Ion: 67 Resp: 1394

Ion	Ratio	Lower	Upper
67	100		
117	60.1	49.5	89.5

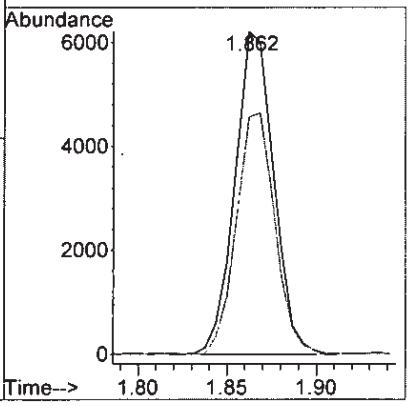


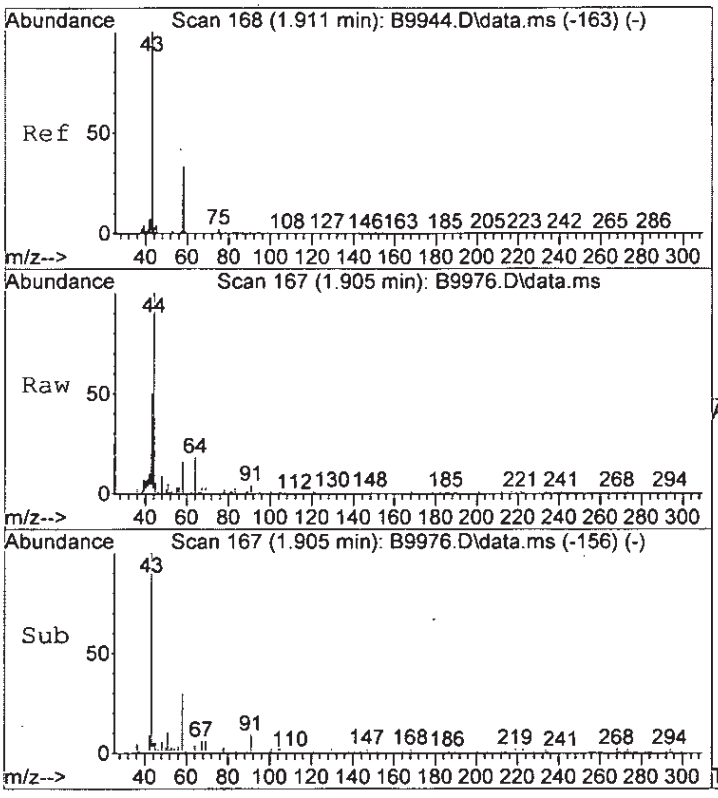


#15
Freon 113
Concen: 6.25 ug/L
RT: 1.862 min Scan# 160
Delta R.T. -0.006 min
Lab File: B9976.D
Acq: 23 Mar 2015 5:24 pm

Tgt Ion:101 Resp: 9363

Ion	Ratio	Lower	Upper
101	100		
151	73.5	52.3	92.3

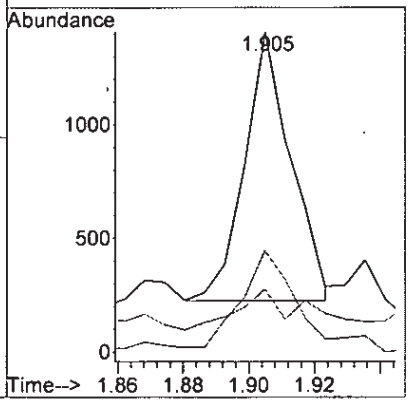


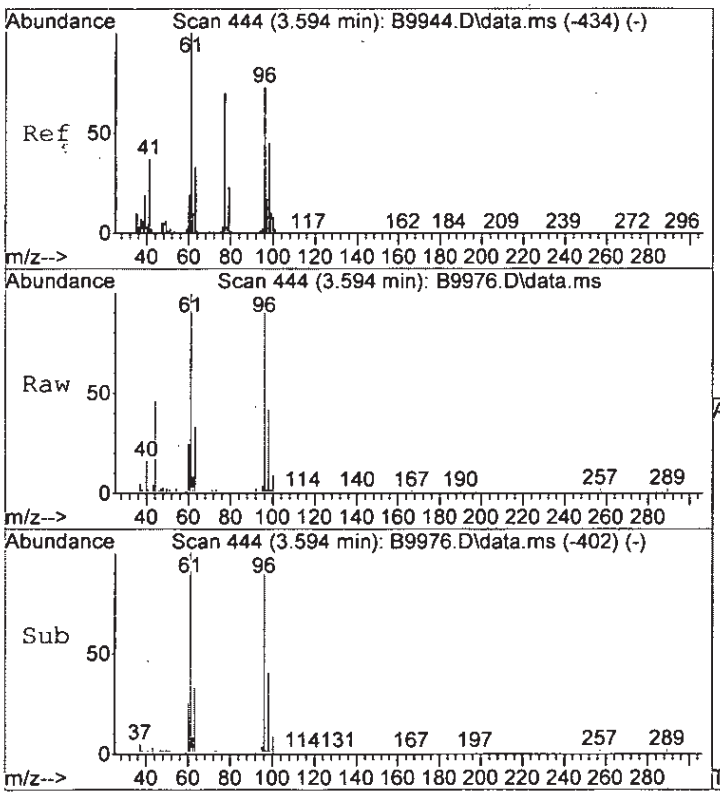


#16
Acetone
Concen: 1.41 ug/L
RT: 1.905 min Scan# 167
Delta R.T. -0.005 min
Lab File: B9976.D
Acq: 23 Mar 2015 5:24 pm

Tgt Ion: 43 Resp: 1155

Ion	Ratio	Lower	Upper
43	100		
58	31.7	12.4	52.4
42	19.6	0.0	27.6

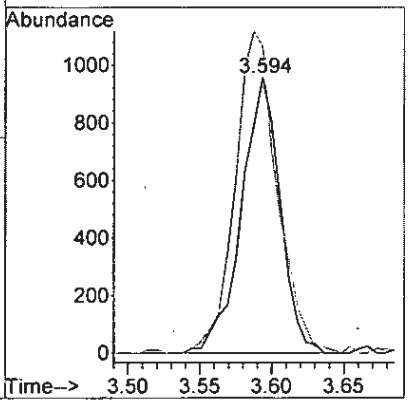


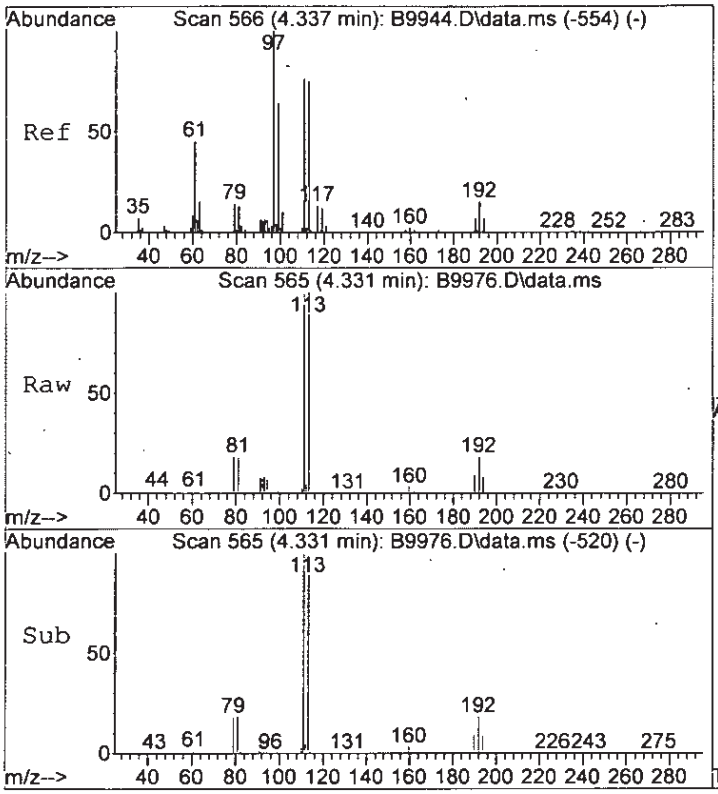


#34
cis-1,2-Dichloroethene
Concen: 0.92 ug/L
RT: 3.594 min Scan# 444
Delta R.T. 0.000 min
Lab File: B9976.D
Acq: 23 Mar 2015 5:24 pm

Tgt Ion: 96 Resp: 1781

Ion	Ratio	Lower	Upper
96	100		
61	111.3	118.0	158.0#

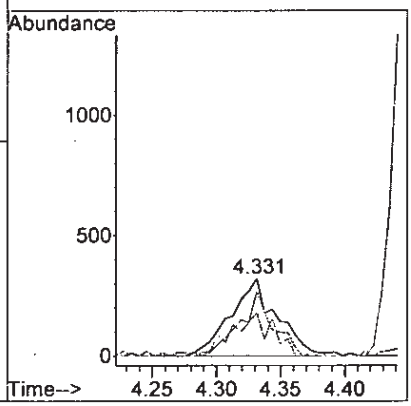


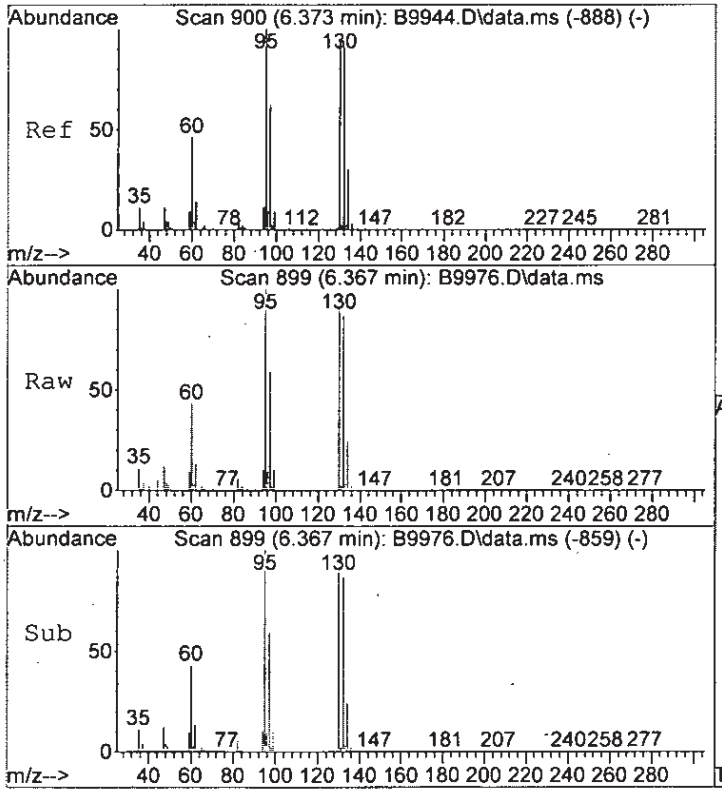


#41
1,1,1-Trichloroethane
Concen: 0.30 ug/L
RT: 4.331 min Scan# 565
Delta R.T. -0.006 min
Lab File: B9976.D
Acq: 23 Mar 2015 5:24 pm

Tgt Ion: 97 Resp: 793

Ion	Ratio	Lower	Upper
97	100		
99	83.4	44.2	84.2
61	62.5	25.1	65.1

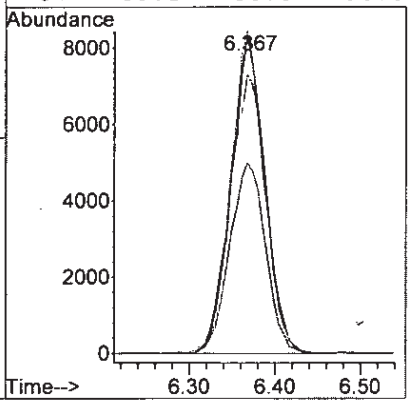




#54
Trichloroethene
Concen: 12.62 ug/L
RT: 6.367 min Scan# 899
Delta R.T. -0.006 min
Lab File: B9976.D
Acq: 23 Mar 2015 5:24 pm

Tgt Ion:130 Resp: 22548

Ion	Ratio	Lower	Upper
130	100		
132	88.2	75.3	115.3
95	101.8	84.8	124.8
97	60.3	44.5	84.5



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/19/15 1140
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/23/15 15:00
Sample Name:	FB-031915	**Units:**	µg/L
Lab Code:	R1501980-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9970.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	3/23/15 15:00	
Dibromofluoromethane	99	89-119	3/23/15 15:00	
Toluene-d8	103	87-121	3/23/15 15:00	

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9970.D
Acq On : 23 Mar 2015 3:00 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-009|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 25 06:22:20 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

SV 03/25/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	153014	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.886	114	255396	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.623	117	226435	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.244	152	109149	50.00	ug/L	0.01
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.331	113	77245	49.63	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.26%			
48) surr1,1,2-dichloroetha...	4.904	65	100322	51.39	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.78%			
65) SURR3,Toluene-d8	8.696	98	301485	51.40	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.80%			
70) SURR2,BFB	12.006	95	115323	49.95	ug/L	0.01
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.90%			
Target Compounds						Qvalue
~~6) Bromomethane~~	~~1.289~~	~~94~~	~~294~~	~~0.28~~	~~ug/L~~	~~86~~
~~7) Chloroethane~~	~~1.338~~	~~64~~	~~303~~	~~0.25~~	~~ug/L #~~	~~55~~
16) Acetone	1.899	43	903	1.18	ug/L	80
~~17) 2-Propanol~~	~~2.039~~	~~45~~	~~641~~	~~3.66~~	~~ug/L #~~	~~1~~
23) Methylene Chloride	2.234	84	814	0.46	ug/L #	90
~~89) Cyclohexanone~~	~~12.006~~	~~55~~	~~349~~	~~2.29~~	~~ug/L #~~	~~30~~

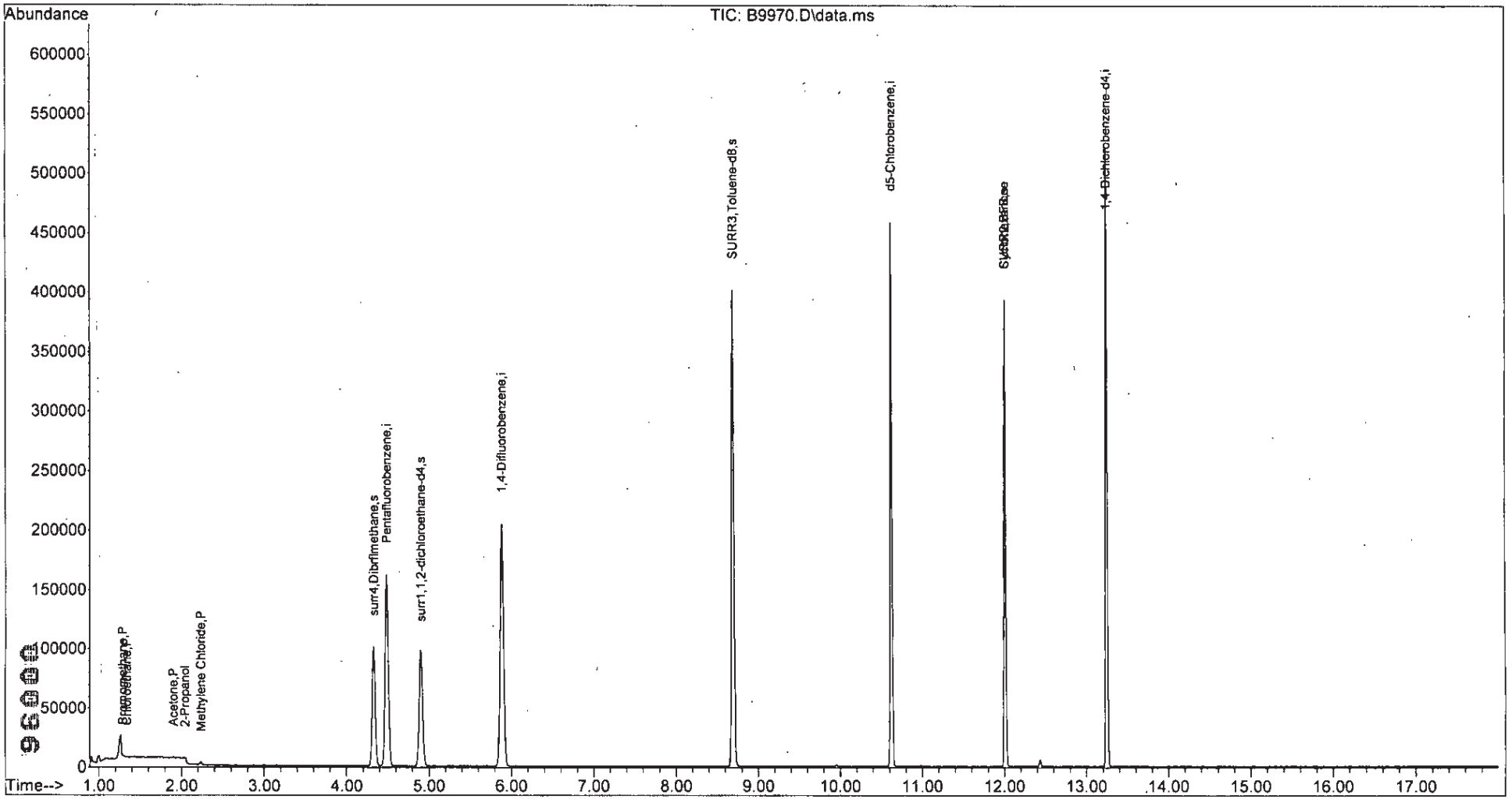
NT ↓

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9970.D
Acq On : 23 Mar 2015 3:00 pm
Operator : B WOJTASIEWICZ
Sample : R1501980-009|1 Inst : MSVOA14
Misc : VERINA 6646/7979 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 25 06:22:20 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration



ALS Environmental

VOLATILE ORGANICS STANDARDS DATA

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Initial Calibration - Summary Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,1,1,2-Tetrachloroethane	T	Average RF			0.3435	<=20	8.6
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.7020	<=20	5.1
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	0.4865	<=20	6.4
1,1,2-Trichloroethane	T	Average RF		0.100	0.2410	<=20	6.2
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.4206	<=20	4.6
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.8103	<=20	7.1
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.3826	<=20	7.7
1,1-Dichloropropene	T	Average RF			0.4032	<=20	6.2
1,2,3-Trichlorobenzene	T	Average RF			0.5872	<=20	6.9
1,2,3-Trichloropropane	T	Average RF			0.1352	<=20	10.8
1,2,4-Trichlorobenzene	T	Average RF		0.200	0.7876	<=20	5.3
1,2,4-Trimethylbenzene	T	Average RF			2.156	<=20	7.1
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF		0.050	0.09694	<=20	6.6
1,2-Dibromoethane	T	Average RF		0.100	0.2376	<=20	5.5
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	T	Average RF			0.5390	<=20	4.3
1,2-Dichlorobenzene	T	Average RF		0.400	1.253	<=20	5.9
1,2-Dichloroethane	T	Average RF		0.100	0.4066	<=20	5.2
1,2-Dichloropropane	T	Average RF		0.100	0.3248	<=20	9.8
1,3,5-Trichlorobenzene	T	Average RF			0.9358	<=20	7.7
1,3,5-Trimethylbenzene	T	Average RF			2.085	<=20	8.5
1,3-Dichlorobenzene	T	Average RF		0.600	1.345	<=20	6.2
1,3-Dichloropropane	T	Average RF			0.3932	<=20	9.2
1,4-Dichlorobenzene	T	Average RF		0.500	1.389	<=20	3.7
1,4-Dioxane	T	Average RF			0.002106	<=20	10.1
1-Butanol	T	Average RF			0.006278	<=20	9.1
1-Chloro-4-(trifluoromethyl)benzene	T	Average RF			0.4863	<=20	8.6
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.5960	<=20	6.4
2,2-Dichloropropane	T	Average RF			0.6342	<=20	5.0
2,3,6-Trichlorotoluene	T	Average RF			0.3260	<=20	4.8
2,4,5-Trichlorotoluene	T	Average RF			0.3821	<=20	6.9
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	T	Average RF			1.108	<=20	7.4
2,4-Dichlorobenzotrifluoride	T	Average RF			0.6226	<=20	6.2
2,5-Dichlorobenzotrifluoride	T	Average RF			0.6897	<=20	7.7
2-Butanone (MEK)	T	Average RF		0.05	0.1617	<=20	2.2
2-Chloro-1,3-butadiene	T	Average RF			0.9402	<=20	8.3
2-Chlorobenzotrifluoride	T	Average RF			0.5249	<=20	11.1
2-Chloroethyl Vinyl Ether	T	Average RF			0.1548	<=20	13.2
2-Chlorotoluene	T	Average RF			1.759	<=20	6.4
2-Hexanone	T	Average RF		0.05	0.1794	<=20	7.8
2-Methyl-1-propanol	T	Average RF			0.01100	<=20	6.1
2-Methyl-2-propanol	T	Average RF			0.03265	<=20	9.4
2-Nitropropane	T	Average RF			0.06790	<=20	9.2
2-Propanol	T	Average RF			0.02160	<=20	8.4
3,4- and 2,3-Dichlorotoluene Coelution	T	Average RF			1.151	<=20	8.7
3,4-Dichlorobenzotrifluoride	T	Average RF			0.6734	<=20	6.4
3-Chloro-1-propene	T	Average RF			0.2266	<=20	9.2
3-Chlorobenzotrifluoride	T	Average RF			0.5347	<=20	9.0
3-Chlorotoluene	T	Average RF			1.879	<=20	5.8
4-Chlorotoluene	T	Average RF			2.090	<=20	6.7
4-Isopropyltoluene	T	Average RF			2.171	<=20	8.5
4-Methyl-2-pentanone	T	Average RF		0.05	0.2486	<=20	4.9
Acetone	T	Average RF		0.05	0.1179	<=20	5.7

Initial Calibration - Summary Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Acetonitrile	T	Average RF			0.01639	<=20	11.1
Acrolein	T	Average RF			0.05223	<=20	9.8
Acrylonitrile	T	Average RF			0.1211	<=20	5.8
Benzene	T	Average RF		0.500	1.218	<=20	5.3
Bromobenzene	T	Average RF			0.6826	<=20	6.1
Bromochloromethane	T	Average RF			0.2716	<=20	6.7
Bromodichloromethane	T	Average RF		0.200	0.4067	<=20	7.4
Bromoform	T	Average RF		0.100	0.1927	<=20	12.5
Bromomethane	T	Quadratic	1/X2	0.100	0.1911	>=0.99	0.9988
Carbon Disulfide	T	Average RF		0.100	1.402	<=20	4.4
Carbon Tetrachloride	T	Average RF		0.05	0.1361	<=20	5.5
Chlorobenzene	T	Average RF		0.500	0.9159	<=20	7.0
Chloroethane	T	Average RF		0.100	0.3167	<=20	3.9
Chloroform	T	Average RF		0.200	0.7651	<=20	5.6
Chloromethane	T	Average RF		0.100	0.5945	<=20	9.6
Cyclohexane	T	Average RF		0.100	0.3824	<=20	6.1
Cyclohexanone	T	Average RF			0.01919	<=20	5.8
Dibromochloromethane	T	Average RF		0.100	0.3121	<=20	7.6
Dibromomethane	T	Average RF			0.1635	<=20	8.0
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.4747	<=20	9.0
Dichlorofluoromethane (CFC 21)	T	Average RF			0.8634	<=20	7.6
Dichloromethane	T	Average RF		0.100	0.4250	<=20	8.9
Diethyl Ether	T	Average RF			0.3586	<=20	5.2
Diisopropyl Ether	T	Average RF			1.758	<=20	5.7
Ethyl Methacrylate	T	Average RF			0.3302	<=20	8.9
Ethyl tert-Butyl Ether	T	Average RF			1.487	<=20	6.9
Ethylbenzene	T	Average RF		0.100	0.4876	<=20	10.5
Hexachlorobutadiene	T	Average RF			0.3502	<=20	3.6
Iodomethane	T	Quadratic	1/X2		0.2570	>=0.99	0.9902
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.444	<=20	8.7
Methacrylonitrile	T	Average RF			0.1292	<=20	5.9
Methyl Acetate	T	Average RF		0.100	0.2637	<=20	6.2
Methyl Methacrylate	T	Average RF			0.1581	<=20	10.0
Methyl tert-Butyl Ether	T	Average RF		0.100	1.127	<=20	6.0
Methylcyclohexane	T	Average RF		0.100	0.4551	<=20	6.6
Naphthalene	T	Average RF			1.386	<=20	7.7
Propionitrile	T	Average RF			0.04388	<=20	9.9
Styrene	T	Average RF		0.300	1.015	<=20	9.5
Tetrachloroethene (PCE)	T	Average RF		0.200	0.2774	<=20	6.9
Tetrahydrofuran (THF)	T	Average RF			0.1063	<=20	13.8
Toluene	T	Average RF		0.400	1.294	<=20	6.6
Trichloroethene (TCE)	T	Average RF		0.200	0.3294	<=20	8.6
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.6846	<=20	6.5
Vinyl Acetate	T	Average RF			0.07695	<=20	5.0
Vinyl Chloride	T	Average RF		0.100	0.5537	<=20	9.6
cis-1,2-Dichloroethene	T	Average RF		0.100	0.4845	<=20	4.4
cis-1,3-Dichloropropene	T	Average RF		0.200	0.4855	<=20	6.8
m,p-Xylenes	T	Average RF		0.100	0.5892	<=20	7.3
n-Butyl Acetate	T	Average RF			0.4486	<=20	6.1
n-Butylbenzene	T	Average RF			1.923	<=20	8.8
n-Heptane	T	Average RF			0.4204	<=20	4.2
n-Propylbenzene	T	Average RF			2.777	<=20	10.5

Initial Calibration - Summary Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
o-Xylene	T	Average RF		0.300	0.5898	<=20	9.0
sec-Butylbenzene	T	Average RF			2.467	<=20	8.7
tert-Amyl Methyl Ether	T	Average RF			0.7828	<=20	7.3
tert-Butylbenzene	T	Average RF			1.803	<=20	7.4
trans-1,2-Dichloroethene	T	Average RF		0.100	0.4350	<=20	5.3
trans-1,3-Dichloropropene	T	Average RF		0.100	0.4214	<=20	7.6
trans-1,4-Dichloro-2-butene	T	Average RF			0.09839	<=20	9.8
1,2-Dichloroethane-d4	S	Average RF			0.3111	<=20	1.3
4-Bromofluorobenzene	S	Average RF			0.5034	<=20	2.9
Dibromofluoromethane	S	Average RF			0.2988	<=20	2.0
Toluene-d8	S	Average RF			1.148	<=20	2.8

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1500024-01	0.5 PPB STD	I:\ACQUDATA\msvoa10\data\031615\A6939.D	3/16/15 17:48
02	RC1500024-02	1.0 PPB STD	I:\ACQUDATA\msvoa10\data\031615\A6940.D	3/16/15 18:17
03	RC1500024-03	2.0 PPB STD	I:\ACQUDATA\msvoa10\data\031615\A6941.D	3/16/15 18:47
04	RC1500024-04	5.0 PPB STD	I:\ACQUDATA\msvoa10\data\031615\A6942.D	3/16/15 19:16
05	RC1500024-05	20 PPB STD	I:\ACQUDATA\msvoa10\data\031615\A6943.D	3/16/15 19:46
06	RC1500024-06	50 PPB STD	I:\ACQUDATA\msvoa10\data\031615\A6944.D	3/16/15 20:15
07	RC1500024-07	100 PPB STD	I:\ACQUDATA\msvoa10\data\031615\A6945.D	3/16/15 20:45
08	RC1500024-08	150 PPB STD	I:\ACQUDATA\msvoa10\data\031615\A6946.D	3/16/15 21:15
09	RC1500024-09	200 PPB STD	I:\ACQUDATA\msvoa10\data\031615\A6947.D	3/16/15 21:44

Analyte **Curve Fit** **Weighting**

1,1,1,2-Tetrachloroethane Average RF RSD = 8.6 Average RF = 0.3435

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3321	02	1.000	0.3124	03	2.000	0.3242	04	5.000	0.3040
05	20.000	0.3314	06	50.000	0.3614	07	100.000	0.3602	08	150.000	0.3760
09	200.000	0.3901									

1,1,1-Trichloroethane (TCA) Average RF RSD = 5.1 Average RF = 0.7020

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6398	02	1.000	0.6842	03	2.000	0.7088	04	5.000	0.6992
05	20.000	0.6614	06	50.000	0.7318	07	100.000	0.7126	08	150.000	0.7218
09	200.000	0.7582									

1,1,2,2-Tetrachloroethane Average RF RSD = 6.4 Average RF = 0.4865

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5220	02	1.000	0.4243	03	2.000	0.4749	04	5.000	0.4654
05	20.000	0.4736	06	50.000	0.5073	07	100.000	0.4838	08	150.000	0.5137
09	200.000	0.5134									

1,1,2-Trichloroethane Average RF RSD = 6.2 Average RF = 0.2410

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2633	02	1.000	0.2221	03	2.000	0.2303	04	5.000	0.2272
05	20.000	0.2281	06	50.000	0.2451	07	100.000	0.2417	08	150.000	0.2534
09	200.000	0.2574									

1,1,2-Trichlorotrifluoroethane Average RF RSD = 4.6 Average RF = 0.4206

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4088	02	1.000	0.3972	03	2.000	0.4083	04	5.000	0.4215
05	20.000	0.3983	06	50.000	0.4397	07	100.000	0.4272	08	150.000	0.4289
09	200.000	0.4557									

1,1-Dichloroethane (1,1-DCA) Average RF RSD = 7.1 Average RF = 0.8103

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6894	02	1.000	0.7667	03	2.000	0.8093	04	5.000	0.8232
05	20.000	0.7836	06	50.000	0.8641	07	100.000	0.8340	08	150.000	0.8489
09	200.000	0.8737									

1,1-Dichloroethene (1,1-DCE) Average RF RSD = 7.7 Average RF = 0.3826

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3325	02	1.000	0.3541	03	2.000	0.3859	04	5.000	0.3812
05	20.000	0.3604	06	50.000	0.4040	07	100.000	0.3932	08	150.000	0.4037
09	200.000	0.4284									

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

1,1-Dichloropropene Average RF RSD = 6.2 Average RF = 0.4032

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3767	02	1.000	0.3643	03	2.000	0.4291	04	5.000	0.3963
05	20.000	0.3821	06	50.000	0.4231	07	100.000	0.4093	08	150.000	0.4108
09	200.000	0.4367									

1,2,3-Trichlorobenzene Average RF RSD = 6.9 Average RF = 0.5872

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5264	02	1.000	0.5329	03	2.000	0.5736	04	5.000	0.5649
05	20.000	0.6025	06	50.000	0.6420	07	100.000	0.5965	08	150.000	0.6237
09	200.000	0.6222									

1,2,3-Trichloropropane Average RF RSD = 10.8 Average RF = 0.1352

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.09923	02	1.000	0.1474	03	2.000	0.1288	04	5.000	0.1380
05	20.000	0.1362	06	50.000	0.1436	07	100.000	0.1362	08	150.000	0.1436
09	200.000	0.1442									

1,2,4-Trichlorobenzene Average RF RSD = 5.3 Average RF = 0.7876

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8010	02	1.000	0.7006	03	2.000	0.7561	04	5.000	0.7807
05	20.000	0.7899	06	50.000	0.8480	07	100.000	0.7865	08	150.000	0.8169
09	200.000	0.8083									

1,2,4-Trimethylbenzene Average RF RSD = 7.1 Average RF = 2.156

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.026	02	1.000	1.958	03	2.000	2.265	04	5.000	2.236
05	20.000	2.228	06	50.000	2.402	07	100.000	2.228	08	150.000	2.115
09	200.000	1.948									

1,2-Dibromo-3-chloropropane (DBCP) Average RF RSD = 6.6 Average RF = 0.09694

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.09249	02	1.000	0.08655	03	2.000	0.09610	04	5.000	0.09209
05	20.000	0.09487	06	50.000	0.1040	07	100.000	0.09706	08	150.000	0.1039
09	200.000	0.1054									

1,2-Dibromoethane Average RF RSD = 5.5 Average RF = 0.2376

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2323	02	1.000	0.2192	03	2.000	0.2322	04	5.000	0.2246
05	20.000	0.2305	06	50.000	0.2433	07	100.000	0.2438	08	150.000	0.2549
09	200.000	0.2577									

1,2-Dichloro-1,1,2-trifluoroethane (CFC Average RF RSD = 4.3 Average RF = 0.5390

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5952	02	1.000	0.5233	03	2.000	0.5310	04	5.000	0.5417
05	20.000	0.5421	06	50.000	0.5263	07	100.000	0.5145	08	150.000	0.5414
09	200.000	0.5352									

1,2-Dichlorobenzene Average RF RSD = 5.9 Average RF = 1.253

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.151	02	1.000	1.124	03	2.000	1.242	04	5.000	1.257
05	20.000	1.251	06	50.000	1.353	07	100.000	1.281	08	150.000	1.320
09	200.000	1.293									

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting** Weighting

1,2-Dichloroethane Average RF RSD = 5.2 Average RF = 0.4066

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3734	02	1.000	0.3967	03	2.000	0.3975	04	5.000	0.3918
05	20.000	0.3971	06	50.000	0.4281	07	100.000	0.4092	08	150.000	0.4261
09	200.000	0.4398									

1,2-Dichloroethane-d4 Average RF RSD = 1.3 Average RF = 0.3111

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.3156	04	60.000	0.3044	05	70.000	0.3107	07	100.000	0.3145
08	125.000	0.3100	09	150.000	0.3114						

1,2-Dichloropropane Average RF RSD = 9.8 Average RF = 0.3248

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2877	02	1.000	0.2663	03	2.000	0.3275	04	5.000	0.3161
05	20.000	0.3174	06	50.000	0.3534	07	100.000	0.3401	08	150.000	0.3515
09	200.000	0.3634									

1,3,5-Trichlorobenzene Average RF RSD = 7.7 Average RF = 0.9358

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7924	02	1.000	0.8503	03	2.000	0.9893	04	5.000	0.9870
05	20.000	0.9911	06	50.000	0.9854	07	100.000	0.9041	08	150.000	0.9788
09	200.000	0.9433									

1,3,5-Trimethylbenzene Average RF RSD = 8.5 Average RF = 2.085

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.789	02	1.000	1.909	03	2.000	2.154	04	5.000	2.140
05	20.000	2.172	06	50.000	2.367	07	100.000	2.207	08	150.000	2.093
09	200.000	1.936									

1,3-Dichlorobenzene Average RF RSD = 6.2 Average RF = 1.345

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.240	02	1.000	1.190	03	2.000	1.323	04	5.000	1.390
05	20.000	1.341	06	50.000	1.460	07	100.000	1.383	08	150.000	1.395
09	200.000	1.381									

1,3-Dichloropropane Average RF RSD = 9.2 Average RF = 0.3932

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3529	02	1.000	0.3337	03	2.000	0.3643	04	5.000	0.3940
05	20.000	0.3917	06	50.000	0.4183	07	100.000	0.4161	08	150.000	0.4301
09	200.000	0.4377									

1,4-Dichlorobenzene Average RF RSD = 3.7 Average RF = 1.389

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.295	02	1.000	1.355	03	2.000	1.363	04	5.000	1.421
05	20.000	1.363	06	50.000	1.473	07	100.000	1.399	08	150.000	1.425
09	200.000	1.406									

1,4-Dioxane Average RF RSD = 10.1 Average RF = 0.002106

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.001782	04	100.000	0.002055	05	400.000	0.002033	06	1000.000	0.002063
07	2000.000	0.002046	08	3000.000	0.002375	09	4000.000	0.002388			

1-Butanol Average RF RSD = 9.1 Average RF = 0.006278

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	50.000	0.006401	03	100.000	0.005464	04	250.000	0.005563	05	1000.000	0.005928
06	2500.000	0.006434	07	5000.000	0.006547	08	7500.000	0.006948	09	10000.000	0.006939

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

1-Chloro-4-(trifluoromethyl)benzene Average RF RSD = 8.6 Average RF = 0.4863

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4022	02	1.000	0.4479	03	2.000	0.4924	04	5.000	0.4853
05	20.000	0.4831	06	50.000	0.4972	07	100.000	0.4958	08	150.000	0.5412
09	200.000	0.5320									

2,2-Dichloro-1,1,1-trifluoroethane (CFC Average RF RSD = 6.4 Average RF = 0.5960

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5218	02	1.000	0.5576	03	2.000	0.6235	04	5.000	0.5950
05	20.000	0.6177	06	50.000	0.5981	07	100.000	0.5819	08	150.000	0.6228
09	200.000	0.6458									

2,2-Dichloropropane Average RF RSD = 5.0 Average RF = 0.6342

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5662	02	1.000	0.6238	03	2.000	0.6281	04	5.000	0.6531
05	20.000	0.6221	06	50.000	0.6800	07	100.000	0.6366	08	150.000	0.6374
09	200.000	0.6603									

2,3,6-Trichlorotoluene Average RF RSD = 4.8 Average RF = 0.3260

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3420	02	1.000	0.2991	03	2.000	0.3196	04	5.000	0.3349
05	20.000	0.3382	06	50.000	0.3409	07	100.000	0.3060	08	150.000	0.3346
09	200.000	0.3188									

2,4,5-Trichlorotoluene Average RF RSD = 6.9 Average RF = 0.3821

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3486	02	1.000	0.3617	03	2.000	0.3500	04	5.000	0.3949
05	20.000	0.4084	06	50.000	0.4190	07	100.000	0.3672	08	150.000	0.4053
09	200.000	0.3840									

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut Average RF RSD = 7.4 Average RF = 1.108

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.500	1.044	02	3.000	0.9947	03	6.000	1.150	04	15.000	1.175
05	60.000	1.194	06	150.000	1.205	07	300.000	1.100	08	450.000	1.114
09	600.000	0.9944									

2,4-Dichlorobenzotrifluoride Average RF RSD = 6.2 Average RF = 0.6226

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6291	02	1.000	0.5420	03	2.000	0.6039	04	5.000	0.6127
05	20.000	0.6281	06	50.000	0.6301	07	100.000	0.6180	08	150.000	0.6791
09	200.000	0.6608									

2,5-Dichlorobenzotrifluoride Average RF RSD = 7.7 Average RF = 0.6897

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5720	02	1.000	0.6556	03	2.000	0.7276	04	5.000	0.6922
05	20.000	0.7288	06	50.000	0.7176	07	100.000	0.6607	08	150.000	0.7304
09	200.000	0.7220									

2-Butanone (MEK) Average RF RSD = 2.2 Average RF = 0.1617

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.1561	05	20.000	0.1599	06	50.000	0.1629	07	100.000	0.1606
08	150.000	0.1648	09	200.000	0.1658						

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

2-Chloro-1,3-butadiene Average RF RSD = 8.3 Average RF = 0.9402

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7752	02	1.000	0.8573	03	2.000	0.9428	04	5.000	0.9470
05	20.000	0.9777	06	50.000	0.9837	07	100.000	0.9480	08	150.000	1.015
09	200.000	1.015									

2-Chlorobenzotrifluoride Average RF RSD = 11.1 Average RF = 0.5249

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4346	02	1.000	0.4234	03	2.000	0.5493	04	5.000	0.5408
05	20.000	0.5204	06	50.000	0.5388	07	100.000	0.5506	08	150.000	0.5886
09	200.000	0.5776									

2-Chloroethyl Vinyl Ether Average RF RSD = 13.2 Average RF = 0.1548

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1397	02	1.000	0.1139	03	2.000	0.1468	04	5.000	0.1462
05	20.000	0.1612	06	50.000	0.1663	07	100.000	0.1654	08	150.000	0.1762
09	200.000	0.1780									

2-Chlorotoluene Average RF RSD = 6.4 Average RF = 1.759

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.576	02	1.000	1.627	03	2.000	1.871	04	5.000	1.796
05	20.000	1.730	06	50.000	1.924	07	100.000	1.811	08	150.000	1.798
09	200.000	1.703									

2-Hexanone Average RF RSD = 7.8 Average RF = 0.1794

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1674	02	1.000	0.1923	03	2.000	0.1987	04	5.000	0.1511
05	20.000	0.1785	06	50.000	0.1780	07	100.000	0.1778	08	150.000	0.1862
09	200.000	0.1846									

2-Methyl-1-propanol Average RF RSD = 6.1 Average RF = 0.01100

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.01032	04	100.000	0.01007	05	400.000	0.01086	06	1000.000	0.01138
07	2000.000	0.01087	08	3000.000	0.01166	09	4000.000	0.01185			

2-Methyl-2-propanol Average RF RSD = 9.4 Average RF = 0.03265

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.03198	02	20.000	0.02759	03	40.000	0.02929	04	100.000	0.03018
05	400.000	0.03374	06	1000.000	0.03452	07	2000.000	0.03405	08	3000.000	0.03602
09	4000.000	0.03645									

2-Nitropropane Average RF RSD = 9.2 Average RF = 0.06790

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.07121	02	2.000	0.05747	03	4.000	0.06281	04	10.000	0.06041
05	40.000	0.06776	06	100.000	0.07144	07	200.000	0.07068	08	300.000	0.07389
09	400.000	0.07543									

2-Propanol Average RF RSD = 8.4 Average RF = 0.02160

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.01979	02	20.000	0.02060	03	40.000	0.01879	04	100.000	0.02077
05	400.000	0.02157	06	1000.000	0.02241	07	2000.000	0.02235	08	3000.000	0.02405
09	4000.000	0.02406									

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

3,4- and 2,3-Dichlorotoluene Coelution Average RF RSD = 8.7 Average RF = 1.151

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.078	02	2.000	1.039	03	4.000	1.203	04	10.000	1.244
05	40.000	1.250	06	100.000	1.273	07	200.000	1.150	08	300.000	1.131
09	400.000	0.9897									

3,4-Dichlorobenzotrifluoride Average RF RSD = 6.4 Average RF = 0.6734

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6014	02	1.000	0.6329	03	2.000	0.6431	04	5.000	0.7002
05	20.000	0.6731	06	50.000	0.6914	07	100.000	0.6623	08	150.000	0.7327
09	200.000	0.7236									

3-Chloro-1-propene Average RF RSD = 9.2 Average RF = 0.2266

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1993	02	1.000	0.1976	03	2.000	0.2325	04	5.000	0.2071
05	20.000	0.2259	06	50.000	0.2549	07	100.000	0.2488	08	150.000	0.2362
09	200.000	0.2373									

3-Chlorobenzotrifluoride Average RF RSD = 9.0 Average RF = 0.5347

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4641	02	1.000	0.4520	03	2.000	0.5421	04	5.000	0.5339
05	20.000	0.5408	06	50.000	0.5503	07	100.000	0.5495	08	150.000	0.5942
09	200.000	0.5853									

3-Chlorotoluene Average RF RSD = 5.8 Average RF = 1.879

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.700	02	1.000	1.762	03	2.000	1.922	04	5.000	2.004
05	20.000	1.947	06	50.000	1.978	07	100.000	1.855	08	150.000	1.962
09	200.000	1.781									

4-Bromofluorobenzene Average RF RSD = 2.9 Average RF = 0.5034

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.5285	04	60.000	0.4873	05	70.000	0.4899	07	100.000	0.5074
08	125.000	0.5016	09	150.000	0.5058						

4-Chlorotoluene Average RF RSD = 6.7 Average RF = 2.090

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.949	02	1.000	2.004	03	2.000	2.198	04	5.000	2.127
05	20.000	2.125	06	50.000	2.331	07	100.000	2.169	08	150.000	2.034
09	200.000	1.872									

4-Isopropyltoluene Average RF RSD = 8.5 Average RF = 2.171

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.906	02	1.000	2.025	03	2.000	2.205	04	5.000	2.247
05	20.000	2.318	06	50.000	2.478	07	100.000	2.261	08	150.000	2.136
09	200.000	1.957									

4-Methyl-2-pentanone Average RF RSD = 4.9 Average RF = 0.2486

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2529	02	1.000	0.2493	03	2.000	0.2282	04	5.000	0.2287
05	20.000	0.2517	06	50.000	0.2538	07	100.000	0.2496	08	150.000	0.2608
09	200.000	0.2624									

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte	Curve Fit	Weighting

Acetone — Average RF — RSD = 5.7 — Average RF = 0.1179

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.1079	05	20.000	0.1131	06	50.000	0.1222	07	100.000	0.1221
08	150.000	0.1162	09	200.000	0.1260						

Acetonitrile — Average RF — RSD = 11.1 — Average RF = 0.01639

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.01671	04	25.000	0.01296	05	100.000	0.01544	06	250.000	0.01644
07	500.000	0.01669	08	750.000	0.01811	09	1000.000	0.01838			

Acrolein — Average RF — RSD = 9.8 — Average RF = 0.05223

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.04194	03	10.000	0.05119	04	25.000	0.04931	05	100.000	0.05233
06	250.000	0.05337	07	500.000	0.05389	08	750.000	0.05738	09	1000.000	0.05843

Acrylonitrile — Average RF — RSD = 5.8 — Average RF = 0.1211

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1135	02	5.000	0.1137	03	10.000	0.1148	04	25.000	0.1142
05	100.000	0.1224	06	250.000	0.1284	07	500.000	0.1239	08	750.000	0.1286
09	1000.000	0.1300									

Benzene — Average RF — RSD = 5.3 — Average RF = 1.218

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.151	02	1.000	1.133	03	2.000	1.217	04	5.000	1.178
05	20.000	1.165	06	50.000	1.292	07	100.000	1.240	08	150.000	1.272
09	200.000	1.309									

Bromobenzene — Average RF — RSD = 6.1 — Average RF = 0.6826

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6417	02	1.000	0.6166	03	2.000	0.6940	04	5.000	0.6638
05	20.000	0.6549	06	50.000	0.7258	07	100.000	0.6851	08	150.000	0.7214
09	200.000	0.7404									

Bromochloromethane — Average RF — RSD = 6.7 — Average RF = 0.2716

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2636	02	1.000	0.2293	03	2.000	0.2808	04	5.000	0.2732
05	20.000	0.2681	06	50.000	0.2926	07	100.000	0.2730	08	150.000	0.2795
09	200.000	0.2844									

Bromodichloromethane — Average RF — RSD = 7.4 — Average RF = 0.4067

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4286	02	1.000	0.3549	03	2.000	0.3990	04	5.000	0.3750
05	20.000	0.3876	06	50.000	0.4237	07	100.000	0.4139	08	150.000	0.4287
09	200.000	0.4492									

Bromoform — Average RF — RSD = 12.5 — Average RF = 0.1927

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1702	02	1.000	0.1530	03	2.000	0.1904	04	5.000	0.1771
05	20.000	0.1847	06	50.000	0.2063	07	100.000	0.2068	08	150.000	0.2198
09	200.000	0.2260									

Bromomethane — Quadratic — 1/X2 — COD = 0.9988 — $Y = 0.02940\ X^2 + 0.1653\ X + -4.133E\text{-}4$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1326	02	1.000	0.1337	03	2.000	0.1496	04	5.000	0.1521
05	20.000	0.1804	06	50.000	0.2148	07	100.000	0.2278	08	150.000	0.2538
09	200.000	0.2753									

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Carbon Disulfide Average RF RSD = 4.4 Average RF = 1.402

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.299	02	1.000	1.315	03	2.000	1.393	04	5.000	1.394
05	20.000	1.459	06	50.000	1.446	07	100.000	1.404	08	150.000	1.471
09	200.000	1.442									

Carbon Tetrachloride Average RF RSD = 5.5 Average RF = 0.1361

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1383	02	1.000	0.1232	03	2.000	0.1376	04	5.000	0.1299
05	20.000	0.1291	06	50.000	0.1411	07	100.000	0.1383	08	150.000	0.1391
09	200.000	0.1481									

Chlorobenzene Average RF RSD = 7.0 Average RF = 0.9159

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7935	02	1.000	0.8435	03	2.000	0.9285	04	5.000	0.9076
05	20.000	0.8934	06	50.000	0.9835	07	100.000	0.9592	08	150.000	0.9717
09	200.000	0.9624									

Chloroethane Average RF RSD = 3.9 Average RF = 0.3167

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3040	02	1.000	0.3057	03	2.000	0.3295	04	5.000	0.3061
05	20.000	0.3038	06	50.000	0.3290	07	100.000	0.3169	08	150.000	0.3201
09	200.000	0.3352									

Chloroform Average RF RSD = 5.6 Average RF = 0.7651

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7147	02	1.000	0.7153	03	2.000	0.7551	04	5.000	0.7348
05	20.000	0.7380	06	50.000	0.8068	07	100.000	0.7905	08	150.000	0.7978
09	200.000	0.8332									

Chloromethane Average RF RSD = 9.6 Average RF = 0.5945

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6456	02	1.000	0.4963	03	2.000	0.5699	04	5.000	0.5496
05	20.000	0.5548	06	50.000	0.6155	07	100.000	0.6036	08	150.000	0.6315
09	200.000	0.6835									

Cyclohexane Average RF RSD = 6.1 Average RF = 0.3824

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3275	02	1.000	0.3734	03	2.000	0.4063	04	5.000	0.3871
05	20.000	0.3931	06	50.000	0.3863	07	100.000	0.3735	08	150.000	0.3926
09	200.000	0.4016									

Cyclohexanone Average RF RSD = 5.8 Average RF = 0.01919

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	20.000	0.02115	03	40.000	0.01943	04	100.000	0.01908	05	400.000	0.02020
06	1000.000	0.01944	07	2000.000	0.01812	08	3000.000	0.01831	09	4000.000	0.01782

Dibromochloromethane Average RF RSD = 7.6 Average RF = 0.3121

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2972	02	1.000	0.2862	03	2.000	0.2987	04	5.000	0.2917
05	20.000	0.2931	06	50.000	0.3275	07	100.000	0.3248	08	150.000	0.3405
09	200.000	0.3494									

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Dibromofluoromethane Average RF RSD = 2.0 Average RF = 0.2988

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.3049	04	60.000	0.2892	05	70.000	0.2945	07	100.000	0.3021
08	125.000	0.2986	09	150.000	0.3037						

Dibromomethane Average RF RSD = 8.0 Average RF = 0.1635

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1832	02	1.000	0.1427	03	2.000	0.1616	04	5.000	0.1463
05	20.000	0.1587	06	50.000	0.1721	07	100.000	0.1631	08	150.000	0.1703
09	200.000	0.1731									

Dichlorodifluoromethane (CFC 12) Average RF RSD = 9.0 Average RF = 0.4747

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4305	02	1.000	0.4563	03	2.000	0.4245	04	5.000	0.4243
05	20.000	0.4732	06	50.000	0.5184	07	100.000	0.5117	08	150.000	0.5041
09	200.000	0.5292									

Dichlorofluoromethane (CFC 21) Average RF RSD = 7.6 Average RF = 0.8634

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7262	02	1.000	0.7799	03	2.000	0.9008	04	5.000	0.8959
05	20.000	0.9028	06	50.000	0.8883	07	100.000	0.8629	08	150.000	0.8984
09	200.000	0.9152									

Dichloromethane Average RF RSD = 8.9 Average RF = 0.4250

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3459	02	1.000	0.3872	03	2.000	0.4397	04	5.000	0.4275
05	20.000	0.4176	06	50.000	0.4535	07	100.000	0.4355	08	150.000	0.4480
09	200.000	0.4699									

Diethyl Ether Average RF RSD = 5.2 Average RF = 0.3586

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3283	02	1.000	0.3389	03	2.000	0.3767	04	5.000	0.3399
05	20.000	0.3597	06	50.000	0.3676	07	100.000	0.3633	08	150.000	0.3730
09	200.000	0.3796									

Diisopropyl Ether Average RF RSD = 5.7 Average RF = 1.758

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.710	02	1.000	1.636	03	2.000	1.777	04	5.000	1.792
05	20.000	1.564	06	50.000	1.860	07	100.000	1.826	08	150.000	1.834
09	200.000	1.822									

Ethyl Methacrylate Average RF RSD = 8.9 Average RF = 0.3302

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3495	02	1.000	0.2873	03	2.000	0.3095	04	5.000	0.2948
05	20.000	0.3156	06	50.000	0.3456	07	100.000	0.3395	08	150.000	0.3613
09	200.000	0.3692									

Ethyl tert-Butyl Ether Average RF RSD = 6.9 Average RF = 1.487

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.406	02	1.000	1.339	03	2.000	1.541	04	5.000	1.480
05	20.000	1.334	06	50.000	1.564	07	100.000	1.541	08	150.000	1.585
09	200.000	1.593									

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte	Curve Fit	Weighting

Ethylbenzene — Average RF — RSD = 10.5 — Average RF = 0.4876

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4066	02	1.000	0.4050	03	2.000	0.5002	04	5.000	0.4888
05	20.000	0.4765	06	50.000	0.5189	07	100.000	0.5181	08	150.000	0.5238
09	200.000	0.5508									

Hexachlorobutadiene — Average RF — RSD = 3.6 — Average RF = 0.3502

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3586	02	1.000	0.3400	03	2.000	0.3615	04	5.000	0.3512
05	20.000	0.3590	06	50.000	0.3548	07	100.000	0.3231	08	150.000	0.3431
09	200.000	0.3605									

Iodomethane — Quadratic — 1/X2 — COD = 0.9902 — $Y = 0.1322 X^2 + 0.1331 X + -0.003075$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.07575	04	5.000	0.08087	05	20.000	0.1544	06	50.000	0.3076
07	100.000	0.4255	08	150.000	0.4978						

Isopropylbenzene (Cumene) — Average RF — RSD = 8.7 — Average RF = 1.444

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.308	02	1.000	1.236	03	2.000	1.461	04	5.000	1.480
05	20.000	1.473	06	50.000	1.627	07	100.000	1.590	08	150.000	1.464
09	200.000	1.360									

Methacrylonitrile — Average RF — RSD = 5.9 — Average RF = 0.1292

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1449	03	2.000	0.1191	04	5.000	0.1239	05	20.000	0.1278
06	50.000	0.1294	07	100.000	0.1252	08	150.000	0.1305	09	200.000	0.1324

Methyl Acetate — Average RF — RSD = 6.2 — Average RF = 0.2637

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.2991	03	2.000	0.2477	04	5.000	0.2476	05	20.000	0.2640
06	50.000	0.2569	07	100.000	0.2594	08	150.000	0.2665	09	200.000	0.2681

Methyl Methacrylate — Average RF — RSD = 10.0 — Average RF = 0.1581

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1735	02	1.000	0.1288	03	2.000	0.1707	04	5.000	0.1375
05	20.000	0.1521	06	50.000	0.1632	07	100.000	0.1583	08	150.000	0.1687
09	200.000	0.1701									

Methyl tert-Butyl Ether — Average RF — RSD = 6.0 — Average RF = 1.127

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.073	02	1.000	1.006	03	2.000	1.091	04	5.000	1.114
05	20.000	1.106	06	50.000	1.192	07	100.000	1.152	08	150.000	1.201
09	200.000	1.207									

Methylcyclohexane — Average RF — RSD = 6.6 — Average RF = 0.4551

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4466	02	1.000	0.3900	03	2.000	0.4863	04	5.000	0.4493
05	20.000	0.4623	06	50.000	0.4508	07	100.000	0.4450	08	150.000	0.4756
09	200.000	0.4900									

Naphthalene — Average RF — RSD = 7.7 — Average RF = 1.386

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.390	02	1.000	1.195	03	2.000	1.265	04	5.000	1.336
05	20.000	1.406	06	50.000	1.535	07	100.000	1.453	08	150.000	1.482
09	200.000	1.411									

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Propionitrile Average RF RSD = 9.9 Average RF = 0.04388

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.04968	02	5.000	0.03471	03	10.000	0.04107	04	25.000	0.04151
05	100.000	0.04427	06	250.000	0.04549	07	500.000	0.04462	08	750.000	0.04671
09	1000.000	0.04687									

Styrene Average RF RSD = 9.5 Average RF = 1.015

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8578	02	1.000	0.9089	03	2.000	0.9559	04	5.000	0.9953
05	20.000	0.9972	06	50.000	1.123	07	100.000	1.119	08	150.000	1.108
09	200.000	1.066									

Tetrachloroethene (PCE) Average RF RSD = 6.9 Average RF = 0.2774

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2541	02	1.000	0.2491	03	2.000	0.2732	04	5.000	0.2885
05	20.000	0.2624	06	50.000	0.2857	07	100.000	0.2869	08	150.000	0.2891
09	200.000	0.3073									

Tetrahydrofuran (THF) Average RF RSD = 13.8 Average RF = 0.1063

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.1378	04	5.000	0.09112	05	20.000	0.1020	06	50.000	0.1043
07	100.000	0.09976	08	150.000	0.1035	09	200.000	0.1052			

Toluene Average RF RSD = 6.6 Average RF = 1.294

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.120	02	1.000	1.206	03	2.000	1.303	04	5.000	1.287
05	20.000	1.292	06	50.000	1.405	07	100.000	1.364	08	150.000	1.352
09	200.000	1.318									

Toluene-d8 Average RF RSD = 2.8 Average RF = 1.148

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	1.193	04	60.000	1.099	05	70.000	1.140	07	100.000	1.169
08	125.000	1.138	09	150.000	1.148						

Trichloroethene (TCE) Average RF RSD = 8.6 Average RF = 0.3294

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2826	02	1.000	0.2976	03	2.000	0.3289	04	5.000	0.3189
05	20.000	0.3192	06	50.000	0.3515	07	100.000	0.3442	08	150.000	0.3493
09	200.000	0.3723									

Trichlorofluoromethane (CFC 11) Average RF RSD = 6.5 Average RF = 0.6846

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6176	02	1.000	0.6341	03	2.000	0.6740	04	5.000	0.6774
05	20.000	0.6583	06	50.000	0.7270	07	100.000	0.7094	08	150.000	0.7100
09	200.000	0.7533									

Vinyl Acetate Average RF RSD = 5.0 Average RF = 0.07695

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.08386	02	1.000	0.07457	03	2.000	0.07317	04	5.000	0.07219
05	20.000	0.07500	06	50.000	0.07814	07	100.000	0.07549	08	150.000	0.08066
09	200.000	0.07945									

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Vinyl Chloride Average RF RSD = 9.6 Average RF = 0.5537

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4647	02	1.000	0.5070	03	2.000	0.5354	04	5.000	0.5277
05	20.000	0.5322	06	50.000	0.6099	07	100.000	0.5913	08	150.000	0.5906
09	200.000	0.6248									

cis-1,2-Dichloroethene Average RF RSD = 4.4 Average RF = 0.4845

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4565	02	1.000	0.5022	03	2.000	0.4875	04	5.000	0.4645
05	20.000	0.4565	06	50.000	0.4947	07	100.000	0.4844	08	150.000	0.4981
09	200.000	0.5166									

cis-1,3-Dichloropropene Average RF RSD = 6.8 Average RF = 0.4855

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4453	02	1.000	0.4436	03	2.000	0.4785	04	5.000	0.4641
05	20.000	0.4688	06	50.000	0.5173	07	100.000	0.5015	08	150.000	0.5179
09	200.000	0.5328									

m,p-Xylenes Average RF RSD = 7.3 Average RF = 0.5892

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5167	02	2.000	0.5382	03	4.000	0.5673	04	10.000	0.5960
05	40.000	0.5843	06	100.000	0.6461	07	200.000	0.6359	08	300.000	0.6222
09	400.000	0.5959									

n-Butyl Acetate Average RF RSD = 6.1 Average RF = 0.4486

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4367	02	1.000	0.3903	03	2.000	0.4484	04	5.000	0.4292
05	20.000	0.4559	06	50.000	0.4585	07	100.000	0.4657	08	150.000	0.4767
09	200.000	0.4763									

n-Butylbenzene Average RF RSD = 8.8 Average RF = 1.923

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.610	02	1.000	1.804	03	2.000	1.963	04	5.000	1.954
05	20.000	2.096	06	50.000	2.171	07	100.000	1.995	08	150.000	1.921
09	200.000	1.793									

n-Heptane Average RF RSD = 4.2 Average RF = 0.4204

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4168	02	1.000	0.3930	03	2.000	0.4420	04	5.000	0.3989
05	20.000	0.4306	06	50.000	0.4332	07	100.000	0.4124	08	150.000	0.4142
09	200.000	0.4424									

n-Propylbenzene Average RF RSD = 10.5 Average RF = 2.777

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.489	02	1.000	2.686	03	2.000	3.032	04	5.000	2.948
05	20.000	2.952	06	50.000	3.191	07	100.000	2.844	08	150.000	2.565
09	200.000	2.289									

o-Xylene Average RF RSD = 9.0 Average RF = 0.5898

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5165	02	1.000	0.5213	03	2.000	0.5638	04	5.000	0.5811
05	20.000	0.5659	06	50.000	0.6232	07	100.000	0.6301	08	150.000	0.6420
09	200.000	0.6644									

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte	Curve Fit	Weighting

sec-Butylbenzene — Average RF — RSD = 8.7 — Average RF = 2.467

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.241	02	1.000	2.317	03	2.000	2.579	04	5.000	2.550
05	20.000	2.619	06	50.000	2.822	07	100.000	2.577	08	150.000	2.351
09	200.000	2.145									

tert-Amyl Methyl Ether — Average RF — RSD = 7.3 — Average RF = 0.7828

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7527	02	1.000	0.7000	03	2.000	0.7561	04	5.000	0.7774
05	20.000	0.7119	06	50.000	0.8274	07	100.000	0.8177	08	150.000	0.8443
09	200.000	0.8574									

tert-Butylbenzene — Average RF — RSD = 7.4 — Average RF = 1.803

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.534	02	1.000	1.656	03	2.000	1.840	04	5.000	1.847
05	20.000	1.849	06	50.000	1.995	07	100.000	1.872	08	150.000	1.830
09	200.000	1.800									

trans-1,2-Dichloroethene — Average RF — RSD = 5.3 — Average RF = 0.4350

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4133	02	1.000	0.4187	03	2.000	0.4258	04	5.000	0.4365
05	20.000	0.3994	06	50.000	0.4608	07	100.000	0.4396	08	150.000	0.4497
09	200.000	0.4715									

trans-1,3-Dichloropropene — Average RF — RSD = 7.6 — Average RF = 0.4214

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3843	02	1.000	0.3802	03	2.000	0.4101	04	5.000	0.3989
05	20.000	0.4084	06	50.000	0.4505	07	100.000	0.4365	08	150.000	0.4562
09	200.000	0.4675									

trans-1,4-Dichloro-2-butene — Average RF — RSD = 9.8 — Average RF = 0.09839

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1116	02	1.000	0.08016	03	2.000	0.09107	04	5.000	0.09352
05	20.000	0.09429	06	50.000	0.1006	07	100.000	0.1013	08	150.000	0.1069
09	200.000	0.1062									

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte

1,1,1,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.3	02	1.000	0.91	-9.1	03	2.000	1.89	-5.6
04	5.000	4.42	-11.5	05	20.000	19.29	-3.5	06	50.000	52.60	5.2
07	100.000	104.85	4.8	08	150.000	164.18	9.5	09	200.000	227.11	13.6

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.9	02	1.000	0.97	-2.5	03	2.000	2.02	1.0
04	5.000	4.98	-0.4	05	20.000	18.84	-5.8	06	50.000	52.12	4.2
07	100.000	101.51	1.5	08	150.000	154.24	2.8	09	200.000	216.01	8.0

1,1,2,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.3	02	1.000	0.87	-12.8	03	2.000	1.95	-2.4
04	5.000	4.78	-4.3	05	20.000	19.47	-2.6	06	50.000	52.14	4.3
07	100.000	99.44	-0.6	08	150.000	158.39	5.6	09	200.000	211.04	5.5

1,1,2-Trichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.3	02	1.000	0.92	-7.8	03	2.000	1.91	-4.4
04	5.000	4.71	-5.7	05	20.000	18.93	-5.3	06	50.000	50.86	1.7
07	100.000	100.30	0.3	08	150.000	157.77	5.2	09	200.000	213.66	6.8

1,1,2-Trichlorotrifluoroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.8	02	1.000	0.94	-5.6	03	2.000	1.94	-2.9
04	5.000	5.01	0.2	05	20.000	18.94	-5.3	06	50.000	52.26	4.5
07	100.000	101.55	1.6	08	150.000	152.96	2.0	09	200.000	216.67	8.3

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-14.9	02	1.000	0.95	-5.4	03	2.000	2.00	-0.1
04	5.000	5.08	1.6	05	20.000	19.34	-3.3	06	50.000	53.32	6.6
07	100.000	102.93	2.9	08	150.000	157.15	4.8	09	200.000	215.64	7.8

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-13.1	02	1.000	0.93	-7.4	03	2.000	2.02	0.9
04	5.000	4.98	-0.4	05	20.000	18.84	-5.8	06	50.000	52.80	5.6
07	100.000	102.76	2.8	08	150.000	158.28	5.5	09	200.000	223.92	12.0

1,1-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.6	02	1.000	0.90	-9.6	03	2.000	2.13	6.4
04	5.000	4.92	-1.7	05	20.000	18.96	-5.2	06	50.000	52.47	4.9
07	100.000	101.53	1.5	08	150.000	152.84	1.9	09	200.000	216.63	8.3

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte

1,2,3-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.3	02	1.000	0.91	-9.3	03	2.000	1.95	-2.3
04	5.000	4.81	-3.8	05	20.000	20.52	2.6	06	50.000	54.67	9.3
07	100.000	101.59	1.6	08	150.000	159.33	6.2	09	200.000	211.93	6.0

1,2,3-Trichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.37	-26.6	02	1.000	1.09	9.0	03	2.000	1.90	-4.8
04	5.000	5.10	2.0	05	20.000	20.15	0.7	06	50.000	53.07	6.1
07	100.000	100.73	0.7	08	150.000	159.25	6.2	09	200.000	213.24	6.6

1,2,4-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.7	02	1.000	0.89	-11.0	03	2.000	1.92	-4.0
04	5.000	4.96	-0.9	05	20.000	20.06	0.3	06	50.000	53.84	7.7
07	100.000	99.86	-0.1	08	150.000	155.59	3.7	09	200.000	205.26	2.6

1,2,4-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.1	02	1.000	0.91	-9.2	03	2.000	2.10	5.1
04	5.000	5.18	3.7	05	20.000	20.66	3.3	06	50.000	55.69	11.4
07	100.000	103.32	3.3	08	150.000	147.15	-1.9	09	200.000	180.70	-9.7

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.6	02	1.000	0.89	-10.7	03	2.000	1.98	-0.9
04	5.000	4.75	-5.0	05	20.000	19.57	-2.1	06	50.000	53.63	7.3
07	100.000	100.13	0.1	08	150.000	160.78	7.2	09	200.000	217.49	8.7

1,2-Dibromoethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.2	02	1.000	0.92	-7.8	03	2.000	1.95	-2.3
04	5.000	4.73	-5.5	05	20.000	19.40	-3.0	06	50.000	51.19	2.4
07	100.000	102.59	2.6	08	150.000	160.93	7.3	09	200.000	216.92	8.5

1,2-Dichloro-1,1,2-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.4	02	1.000	0.97	-2.9	03	2.000	1.97	-1.5
04	5.000	5.03	0.5	05	20.000	20.12	0.6	06	50.000	48.82	-2.4
07	100.000	95.46	-4.5	08	150.000	150.67	0.4	09	200.000	198.61	-0.7

1,2-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.1	02	1.000	0.90	-10.2	03	2.000	1.98	-0.8
04	5.000	5.02	0.3	05	20.000	19.98	-0.1	06	50.000	54.00	8.0
07	100.000	102.23	2.2	08	150.000	158.14	5.4	09	200.000	206.49	3.2

Initial Calibration - Detailed Report

Calibration ID:	RC1500024	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

1,2-Dichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.2	02	1.000	0.98	-2.4	03	2.000	1.96	-2.2
04	5.000	4.82	-3.6	05	20.000	19.53	-2.3	06	50.000	52.64	5.3
07	100.000	100.62	0.6	08	150.000	157.20	4.8	09	200.000	216.29	8.1

1,2-Dichloroethane-d4

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	50.72	1.4	04	60.000	58.71	-2.2	05	70.000	69.91	-0.1
07	100.000	101.09	1.1	08	125.000	124.56	-0.4	09	150.000	150.15	0.1

1,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.4	02	1.000	0.82	-18.0	03	2.000	2.02	0.8
04	5.000	4.87	-2.7	05	20.000	19.54	-2.3	06	50.000	54.40	8.8
07	100.000	104.70	4.7	08	150.000	162.31	8.2	09	200.000	223.74	11.9

1,3,5-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.42	-15.3	02	1.000	0.91	-9.1	03	2.000	2.11	5.7
04	5.000	5.27	5.5	05	20.000	21.18	5.9	06	50.000	52.65	5.3
07	100.000	96.62	-3.4	08	150.000	156.90	4.6	09	200.000	201.61	0.8

1,3,5-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-14.2	02	1.000	0.92	-8.4	03	2.000	2.07	3.3
04	5.000	5.13	2.6	05	20.000	20.83	4.1	06	50.000	56.76	13.5
07	100.000	105.85	5.8	08	150.000	150.52	0.3	09	200.000	185.68	-7.2

1,3-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.8	02	1.000	0.88	-11.5	03	2.000	1.97	-1.7
04	5.000	5.17	3.4	05	20.000	19.95	-0.3	06	50.000	54.30	8.6
07	100.000	102.83	2.8	08	150.000	155.56	3.7	09	200.000	205.42	2.7

1,3-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.3	02	1.000	0.85	-15.1	03	2.000	1.85	-7.3
04	5.000	5.01	0.2	05	20.000	19.93	-0.4	06	50.000	53.19	6.4
07	100.000	105.82	5.8	08	150.000	164.10	9.4	09	200.000	222.64	11.3

1,4-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.7	02	1.000	0.98	-2.4	03	2.000	1.96	-1.9
04	5.000	5.12	2.3	05	20.000	19.62	-1.9	06	50.000	53.01	6.0
07	100.000	100.70	0.7	08	150.000	153.94	2.6	09	200.000	202.45	1.2

Initial Calibration - Detailed Report

Calibration ID:	RC1500024	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

1,4-Dioxane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	33.84	-15.4	04	100.000	97.60	-2.4	05	400.000	386.11	-3.5
06	1000.000	979.43	-2.1	07	2000.000	1,943.14	-2.8	08	3000.000	3,383.31	12.8
09	4000.000	4,535.67	13.4								

1-Butanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	50.000	50.98	2.0	03	100.000	87.03	-13.0	04	250.000	221.54	-11.4
05	1000.000	944.31	-5.6	06	2500.000	2,561.97	2.5	07	5000.000	5,213.92	4.3
08	7500.000	8,300.97	10.7	09	10000.000	11,053.66	10.5				

1-Chloro-4-(trifluoromethyl)benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.3	02	1.000	0.92	-7.9	03	2.000	2.03	1.3
04	5.000	4.99	-0.2	05	20.000	19.87	-0.7	06	50.000	51.12	2.2
07	100.000	101.95	2.0	08	150.000	166.93	11.3	09	200.000	218.77	9.4

2,2-Dichloro-1,1,1-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-12.4	02	1.000	0.94	-6.4	03	2.000	2.09	4.6
04	5.000	4.99	-0.2	05	20.000	20.73	3.6	06	50.000	50.18	0.4
07	100.000	97.63	-2.4	08	150.000	156.74	4.5	09	200.000	216.70	8.3

2,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.7	02	1.000	0.98	-1.6	03	2.000	1.98	-1.0
04	5.000	5.15	3.0	05	20.000	19.62	-1.9	06	50.000	53.61	7.2
07	100.000	100.38	0.4	08	150.000	150.77	0.5	09	200.000	208.22	4.1

2,3,6-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.9	02	1.000	0.92	-8.3	03	2.000	1.96	-2.0
04	5.000	5.14	2.7	05	20.000	20.75	3.7	06	50.000	52.28	4.6
07	100.000	93.87	-6.1	08	150.000	153.93	2.6	09	200.000	195.59	-2.2

2,4,5-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.8	02	1.000	0.95	-5.3	03	2.000	1.83	-8.4
04	5.000	5.17	3.3	05	20.000	21.38	6.9	06	50.000	54.82	9.6
07	100.000	96.10	-3.9	08	150.000	159.09	6.1	09	200.000	200.99	0.5

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.500	1.41	-5.8	02	3.000	2.69	-10.2	03	6.000	6.23	3.8
04	15.000	15.91	6.1	05	60.000	64.65	7.7	06	150.000	163.21	8.8
07	300.000	297.90	-0.7	08	450.000	452.36	0.5	09	600.000	538.52	-10.2

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte

2,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.0	02	1.000	0.87	-13.0	03	2.000	1.94	-3.0
04	5.000	4.92	-1.6	05	20.000	20.17	0.9	06	50.000	50.60	1.2
07	100.000	99.26	-0.7	08	150.000	163.61	9.1	09	200.000	212.26	6.1

2,5-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.1	02	1.000	0.95	-4.9	03	2.000	2.11	5.5
04	5.000	5.02	0.4	05	20.000	21.13	5.7	06	50.000	52.03	4.1
07	100.000	95.81	-4.2	08	150.000	158.87	5.9	09	200.000	209.38	4.7

2-Butanone (MEK)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	5.000	4.83	-3.5	05	20.000	19.78	-1.1	06	50.000	50.37	0.7
07	100.000	99.37	-0.6	08	150.000	152.86	1.9	09	200.000	205.14	2.6

2-Chloro-1,3-butadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.5	02	1.000	0.91	-8.8	03	2.000	2.01	0.3
04	5.000	5.04	0.7	05	20.000	20.80	4.0	06	50.000	52.31	4.6
07	100.000	100.83	0.8	08	150.000	161.94	8.0	09	200.000	215.90	8.0

2-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.2	02	1.000	0.81	-19.3	03	2.000	2.09	4.6
04	5.000	5.15	3.0	05	20.000	19.83	-0.9	06	50.000	51.32	2.6
07	100.000	104.90	4.9	08	150.000	168.22	12.1	09	200.000	220.08	10.0

2-Chloroethyl Vinyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.8	02	1.000	0.74	-26.4	03	2.000	1.90	-5.2
04	5.000	4.72	-5.6	05	20.000	20.82	4.1	06	50.000	53.69	7.4
07	100.000	106.80	6.8	08	150.000	170.66	13.8	09	200.000	229.94	15.0

2-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.4	02	1.000	0.92	-7.5	03	2.000	2.13	6.3
04	5.000	5.10	2.1	05	20.000	19.66	-1.7	06	50.000	54.68	9.4
07	100.000	102.95	3.0	08	150.000	153.27	2.2	09	200.000	193.53	-3.2

2-Hexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.7	02	1.000	1.07	7.2	03	2.000	2.22	10.8
04	5.000	4.21	-15.8	05	20.000	19.90	-0.5	06	50.000	49.61	-0.8
07	100.000	99.12	-0.9	08	150.000	155.71	3.8	09	200.000	205.77	2.9

Initial Calibration - Detailed Report

Calibration ID:	RC1500024	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

2-Methyl-1-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	37.52	-6.2	04	100.000	91.53	-8.5	05	400.000	394.81	-1.3
06	1000.000	1,034.51	3.5	07	2000.000	1,976.19	-1.2	08	3000.000	3,179.69	6.0
09	4000.000	4,308.87	7.7								

2-Methyl-2-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	9.80	-2.0	02	20.000	16.90	-15.5	03	40.000	35.88	-10.3
04	100.000	92.43	-7.6	05	400.000	413.45	3.4	06	1000.000	1,057.45	5.7
07	2000.000	2,085.78	4.3	08	3000.000	3,310.08	10.3	09	4000.000	4,465.43	11.6

2-Nitropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.05	4.9	02	2.000	1.69	-15.4	03	4.000	3.70	-7.5
04	10.000	8.90	-11.0	05	40.000	39.92	-0.2	06	100.000	105.22	5.2
07	200.000	208.19	4.1	08	300.000	326.46	8.8	09	400.000	444.38	11.1

2-Propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	9.16	-8.4	02	20.000	19.08	-4.6	03	40.000	34.80	-13.0
04	100.000	96.16	-3.8	05	400.000	399.49	-0.1	06	1000.000	1,037.47	3.7
07	2000.000	2,069.23	3.5	08	3000.000	3,340.67	11.4	09	4000.000	4,455.85	11.4

3,4- and 2,3-Dichlorotoluene Coelution

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.94	-6.3	02	2.000	1.81	-9.7	03	4.000	4.18	4.5
04	10.000	10.81	8.1	05	40.000	43.46	8.7	06	100.000	110.63	10.6
07	200.000	199.89	-0.1	08	300.000	294.80	-1.7	09	400.000	343.99	-14.0

3,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.7	02	1.000	0.94	-6.0	03	2.000	1.91	-4.5
04	5.000	5.20	4.0	05	20.000	19.99	0.0	06	50.000	51.33	2.7
07	100.000	98.35	-1.7	08	150.000	163.21	8.8	09	200.000	214.89	7.4

3-Chloro-1-propene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-12.1	02	1.000	0.87	-12.8	03	2.000	2.05	2.6
04	5.000	4.57	-8.6	05	20.000	19.94	-0.3	06	50.000	56.24	12.5
07	100.000	109.79	9.8	08	150.000	156.35	4.2	09	200.000	209.38	4.7

3-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-13.2	02	1.000	0.85	-15.5	03	2.000	2.03	1.4
04	5.000	4.99	-0.1	05	20.000	20.23	1.1	06	50.000	51.46	2.9
07	100.000	102.77	2.8	08	150.000	166.70	11.1	09	200.000	218.93	9.5

Initial Calibration - Detailed Report

Calibration ID:	RC1500024	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

3-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.5	02	1.000	0.94	-6.2	03	2.000	2.05	2.3
04	5.000	5.33	6.6	05	20.000	20.73	3.6	06	50.000	52.63	5.3
07	100.000	98.72	-1.3	08	150.000	156.62	4.4	09	200.000	189.60	-5.2

4-Bromofluorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	52.49	5.0	04	60.000	58.08	-3.2	05	70.000	68.12	-2.7
07	100.000	100.79	0.8	08	125.000	124.54	-0.4	09	150.000	150.72	0.5

4-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.7	02	1.000	0.96	-4.1	03	2.000	2.10	5.2
04	5.000	5.09	1.8	05	20.000	20.33	1.7	06	50.000	55.76	11.5
07	100.000	103.79	3.8	08	150.000	146.00	-2.7	09	200.000	179.13	-10.4

4-Isopropyltoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-12.2	02	1.000	0.93	-6.7	03	2.000	2.03	1.6
04	5.000	5.18	3.5	05	20.000	21.36	6.8	06	50.000	57.09	14.2
07	100.000	104.18	4.2	08	150.000	147.64	-1.6	09	200.000	180.35	-9.8

4-Methyl-2-pentanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.7	02	1.000	1.00	0.3	03	2.000	1.84	-8.2
04	5.000	4.60	-8.0	05	20.000	20.25	1.3	06	50.000	51.04	2.1
07	100.000	100.42	0.4	08	150.000	157.37	4.9	09	200.000	211.07	5.5

Acetone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	5.000	4.58	-8.5	05	20.000	19.18	-4.1	06	50.000	51.82	3.6
07	100.000	103.55	3.6	08	150.000	147.81	-1.5	09	200.000	213.73	6.9

Acetonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	10.000	10.19	1.9	04	25.000	19.78	-20.9	05	100.000	94.18	-5.8
06	250.000	250.80	0.3	07	500.000	509.17	1.8	08	750.000	828.69	10.5
09	1000.000	1,121.22	12.1								

Acrolein

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	5.000	4.01	-19.7	03	10.000	9.80	-2.0	04	25.000	23.60	-5.6
05	100.000	100.20	0.2	06	250.000	255.44	2.2	07	500.000	515.89	3.2
08	750.000	823.92	9.9	09	1000.000	1,118.81	11.9				

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte

Acrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.34	-6.3	02	5.000	4.69	-6.1	03	10.000	9.49	-5.1
04	25.000	23.59	-5.7	05	100.000	101.15	1.1	06	250.000	265.18	6.1
07	500.000	511.71	2.3	08	750.000	796.51	6.2	09	1000.000	1,073.81	7.4

Benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.5	02	1.000	0.93	-6.9	03	2.000	2.00	-0.1
04	5.000	4.84	-3.2	05	20.000	19.14	-4.3	06	50.000	53.08	6.2
07	100.000	101.83	1.8	08	150.000	156.71	4.5	09	200.000	215.00	7.5

Bromobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.0	02	1.000	0.90	-9.7	03	2.000	2.03	1.7
04	5.000	4.86	-2.8	05	20.000	19.19	-4.1	06	50.000	53.16	6.3
07	100.000	100.36	0.4	08	150.000	158.52	5.7	09	200.000	216.94	8.5

Bromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-3.0	02	1.000	0.84	-15.6	03	2.000	2.07	3.4
04	5.000	5.03	0.6	05	20.000	19.74	-1.3	06	50.000	53.85	7.7
07	100.000	100.51	0.5	08	150.000	154.36	2.9	09	200.000	209.42	4.7

Bromodichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.4	02	1.000	0.87	-12.8	03	2.000	1.96	-1.9
04	5.000	4.61	-7.8	05	20.000	19.06	-4.7	06	50.000	52.08	4.2
07	100.000	101.75	1.8	08	150.000	158.11	5.4	09	200.000	220.88	10.4

Bromoform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.7	02	1.000	0.79	-20.6	03	2.000	1.98	-1.2
04	5.000	4.60	-8.1	05	20.000	19.17	-4.2	06	50.000	53.52	7.0
07	100.000	107.33	7.3	08	150.000	171.11	14.1	09	200.000	234.53	17.3

Bromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	5.0	02	1.000	0.93	-6.9	03	2.000	1.92	-3.9
04	5.000	4.65	-7.0	05	20.000	20.46	2.3	06	50.000	54.53	9.1
07	100.000	101.39	1.4	08	150.000	150.18	0.1	09	200.000	196.26	-1.9

Carbon Disulfide

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.4	02	1.000	0.94	-6.2	03	2.000	1.99	-0.6
04	5.000	4.97	-0.6	05	20.000	20.80	4.0	06	50.000	51.54	3.1
07	100.000	100.09	0.1	08	150.000	157.30	4.9	09	200.000	205.67	2.8

Initial Calibration - Detailed Report

Calibration ID: RC1500024 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte

Carbon Tetrachloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.6	02	1.000	0.91	-9.5	03	2.000	2.02	1.1
04	5.000	4.77	-4.5	05	20.000	18.97	-5.1	06	50.000	51.84	3.7
07	100.000	101.65	1.6	08	150.000	153.32	2.2	09	200.000	217.69	8.8

Chlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-13.4	02	1.000	0.92	-7.9	03	2.000	2.03	1.4
04	5.000	4.95	-0.9	05	20.000	19.51	-2.5	06	50.000	53.69	7.4
07	100.000	104.72	4.7	08	150.000	159.13	6.1	09	200.000	210.15	5.1

Chloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.0	02	1.000	0.97	-3.5	03	2.000	2.08	4.0
04	5.000	4.83	-3.4	05	20.000	19.19	-4.1	06	50.000	51.95	3.9
07	100.000	100.07	0.1	08	150.000	151.61	1.1	09	200.000	211.67	5.8

Chloroform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.6	02	1.000	0.93	-6.5	03	2.000	1.97	-1.3
04	5.000	4.80	-4.0	05	20.000	19.29	-3.5	06	50.000	52.72	5.4
07	100.000	103.31	3.3	08	150.000	156.40	4.3	09	200.000	217.79	8.9

Chloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.6	02	1.000	0.83	-16.5	03	2.000	1.92	-4.1
04	5.000	4.62	-7.5	05	20.000	18.67	-6.7	06	50.000	51.77	3.5
07	100.000	101.54	1.5	08	150.000	159.34	6.2	09	200.000	229.95	15.0

Cyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-14.3	02	1.000	0.98	-2.3	03	2.000	2.12	6.2
04	5.000	5.06	1.2	05	20.000	20.56	2.8	06	50.000	50.51	1.0
07	100.000	97.69	-2.3	08	150.000	154.01	2.7	09	200.000	210.06	5.0

Cyclohexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	20.000	22.03	10.2	03	40.000	40.49	1.2	04	100.000	99.39	-0.6
05	400.000	421.04	5.3	06	1000.000	1,013.14	1.3	07	2000.000	1,888.48	-5.6
08	3000.000	2,861.45	-4.6	09	4000.000	3,713.32	-7.2				

Dibromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.8	02	1.000	0.92	-8.3	03	2.000	1.91	-4.3
04	5.000	4.67	-6.5	05	20.000	18.78	-6.1	06	50.000	52.46	4.9
07	100.000	104.06	4.1	08	150.000	163.65	9.1	09	200.000	223.87	11.9

Initial Calibration - Detailed Report

Calibration ID:	RC1500024	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Dibromofluoromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	51.01	2.0	04	60.000	58.06	-3.2	05	70.000	68.98	-1.5
07	100.000	101.11	1.1	08	125.000	124.89	-0.1	09	150.000	152.46	1.6

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.1	02	1.000	0.87	-12.7	03	2.000	1.98	-1.1
04	5.000	4.48	-10.5	05	20.000	19.42	-2.9	06	50.000	52.65	5.3
07	100.000	99.81	-0.2	08	150.000	156.27	4.2	09	200.000	211.77	5.9

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.3	02	1.000	0.96	-3.9	03	2.000	1.79	-10.6
04	5.000	4.47	-10.6	05	20.000	19.94	-0.3	06	50.000	54.60	9.2
07	100.000	107.79	7.8	08	150.000	159.30	6.2	09	200.000	222.96	11.5

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.42	-15.9	02	1.000	0.90	-9.7	03	2.000	2.09	4.3
04	5.000	5.19	3.8	05	20.000	20.91	4.6	06	50.000	51.44	2.9
07	100.000	99.94	-0.1	08	150.000	156.08	4.1	09	200.000	212.01	6.0

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-18.6	02	1.000	0.91	-8.9	03	2.000	2.07	3.5
04	5.000	5.03	0.6	05	20.000	19.65	-1.7	06	50.000	53.36	6.7
07	100.000	102.47	2.5	08	150.000	158.12	5.4	09	200.000	221.15	10.6

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.4	02	1.000	0.95	-5.5	03	2.000	2.10	5.1
04	5.000	4.74	-5.2	05	20.000	20.06	0.3	06	50.000	51.26	2.5
07	100.000	101.33	1.3	08	150.000	156.03	4.0	09	200.000	211.73	5.9

Diisopropyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.7	02	1.000	0.93	-6.9	03	2.000	2.02	1.1
04	5.000	5.10	2.0	05	20.000	17.79	-11.0	06	50.000	52.89	5.8
07	100.000	103.87	3.9	08	150.000	156.48	4.3	09	200.000	207.26	3.6

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.8	02	1.000	0.87	-13.0	03	2.000	1.87	-6.3
04	5.000	4.46	-10.7	05	20.000	19.11	-4.4	06	50.000	52.32	4.6
07	100.000	102.80	2.8	08	150.000	164.08	9.4	09	200.000	223.60	11.8

Initial Calibration - Detailed Report

Calibration ID:	RC1500024	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Ethyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.5	02	1.000	0.90	-10.0	03	2.000	2.07	3.6
04	5.000	4.98	-0.5	05	20.000	17.94	-10.3	06	50.000	52.59	5.2
07	100.000	103.65	3.6	08	150.000	159.92	6.6	09	200.000	214.32	7.2

Ethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.42	-16.6	02	1.000	0.83	-17.0	03	2.000	2.05	2.6
04	5.000	5.01	0.2	05	20.000	19.54	-2.3	06	50.000	53.21	6.4
07	100.000	106.25	6.2	08	150.000	161.13	7.4	09	200.000	225.90	12.9

Hexachlorobutadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.4	02	1.000	0.97	-2.9	03	2.000	2.06	3.2
04	5.000	5.01	0.3	05	20.000	20.50	2.5	06	50.000	50.66	1.3
07	100.000	92.25	-7.8	08	150.000	146.95	-2.0	09	200.000	205.87	2.9

Iodomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.20	9.9	04	5.000	3.89	-22.1	05	20.000	17.95	-10.2
06	50.000	55.52	11.0	07	100.000	104.40	4.4	08	150.000	144.95	-3.4

Isopropylbenzene (Cumene)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.5	02	1.000	0.86	-14.4	03	2.000	2.02	1.1
04	5.000	5.12	2.5	05	20.000	20.40	2.0	06	50.000	56.32	12.6
07	100.000	110.11	10.1	08	150.000	152.00	1.3	09	200.000	188.34	-5.8

Methacrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.12	12.2	03	2.000	1.84	-7.8	04	5.000	4.80	-4.0
05	20.000	19.79	-1.1	06	50.000	50.09	0.2	07	100.000	96.97	-3.0
08	150.000	151.51	1.0	09	200.000	205.02	2.5				

Methyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.13	13.4	03	2.000	1.88	-6.1	04	5.000	4.70	-6.1
05	20.000	20.03	0.1	06	50.000	48.72	-2.6	07	100.000	98.39	-1.6
08	150.000	151.59	1.1	09	200.000	203.39	1.7				

Methyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.8	02	1.000	0.81	-18.6	03	2.000	2.16	8.0
04	5.000	4.35	-13.0	05	20.000	19.25	-3.8	06	50.000	51.62	3.2
07	100.000	100.13	0.1	08	150.000	160.01	6.7	09	200.000	215.23	7.6

Initial Calibration - Detailed Report

Calibration ID:	RC1500024	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Methyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.8	02	1.000	0.89	-10.7	03	2.000	1.94	-3.2
04	5.000	4.94	-1.1	05	20.000	19.64	-1.8	06	50.000	52.89	5.8
07	100.000	102.26	2.3	08	150.000	159.83	6.6	09	200.000	214.21	7.1

Methylcyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.9	02	1.000	0.86	-14.3	03	2.000	2.14	6.9
04	5.000	4.94	-1.3	05	20.000	20.32	1.6	06	50.000	49.52	-1.0
07	100.000	97.77	-2.2	08	150.000	156.76	4.5	09	200.000	215.36	7.7

Naphthalene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.3	02	1.000	0.86	-13.8	03	2.000	1.83	-8.7
04	5.000	4.82	-3.6	05	20.000	20.29	1.4	06	50.000	55.38	10.8
07	100.000	104.85	4.8	08	150.000	160.42	6.9	09	200.000	203.59	1.8

Propionitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.83	13.2	02	5.000	3.96	-20.9	03	10.000	9.36	-6.4
04	25.000	23.65	-5.4	05	100.000	100.88	0.9	06	250.000	259.19	3.7
07	500.000	508.46	1.7	08	750.000	798.28	6.4	09	1000.000	1,068.04	6.8

Styrene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.42	-15.5	02	1.000	0.90	-10.4	03	2.000	1.88	-5.8
04	5.000	4.91	-1.9	05	20.000	19.66	-1.7	06	50.000	55.35	10.7
07	100.000	110.30	10.3	08	150.000	163.84	9.2	09	200.000	210.10	5.1

Tetrachloroethene (PCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.4	02	1.000	0.90	-10.2	03	2.000	1.97	-1.5
04	5.000	5.20	4.0	05	20.000	18.92	-5.4	06	50.000	51.51	3.0
07	100.000	103.44	3.4	08	150.000	156.36	4.2	09	200.000	221.58	10.8

Tetrahydrofuran (THF)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.59	29.7	04	5.000	4.29	-14.2	05	20.000	19.20	-4.0
06	50.000	49.09	-1.8	07	100.000	93.88	-6.1	08	150.000	146.15	-2.6
09	200.000	198.07	-1.0								

Toluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-13.4	02	1.000	0.93	-6.8	03	2.000	2.01	0.7
04	5.000	4.97	-0.6	05	20.000	19.96	-0.2	06	50.000	54.30	8.6
07	100.000	105.42	5.4	08	150.000	156.70	4.5	09	200.000	203.72	1.9

Initial Calibration - Detailed Report

Calibration ID:	RC1500024	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Toluene-d8

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	51.96	3.9	04	60.000	57.45	-4.3	05	70.000	69.52	-0.7
07	100.000	101.83	1.8	08	125.000	123.97	-0.8	09	150.000	150.04	0.0

Trichloroethene (TCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-14.2	02	1.000	0.90	-9.6	03	2.000	2.00	-0.1
04	5.000	4.84	-3.2	05	20.000	19.38	-3.1	06	50.000	53.36	6.7
07	100.000	104.49	4.5	08	150.000	159.07	6.0	09	200.000	226.04	13.0

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.8	02	1.000	0.93	-7.4	03	2.000	1.97	-1.5
04	5.000	4.95	-1.0	05	20.000	19.23	-3.8	06	50.000	53.10	6.2
07	100.000	103.63	3.6	08	150.000	155.56	3.7	09	200.000	220.07	10.0

Vinyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	9.0	02	1.000	0.97	-3.1	03	2.000	1.90	-4.9
04	5.000	4.69	-6.2	05	20.000	19.49	-2.5	06	50.000	50.78	1.6
07	100.000	98.11	-1.9	08	150.000	157.24	4.8	09	200.000	206.50	3.3

Vinyl Chloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.42	-16.1	02	1.000	0.92	-8.4	03	2.000	1.93	-3.3
04	5.000	4.76	-4.7	05	20.000	19.22	-3.9	06	50.000	55.07	10.1
07	100.000	106.78	6.8	08	150.000	160.00	6.7	09	200.000	225.66	12.8

cis-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.8	02	1.000	1.04	3.6	03	2.000	2.01	0.6
04	5.000	4.79	-4.1	05	20.000	18.84	-5.8	06	50.000	51.05	2.1
07	100.000	99.97	0.0	08	150.000	154.20	2.8	09	200.000	213.21	6.6

cis-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.3	02	1.000	0.91	-8.6	03	2.000	1.97	-1.5
04	5.000	4.78	-4.4	05	20.000	19.31	-3.4	06	50.000	53.28	6.6
07	100.000	103.28	3.3	08	150.000	160.00	6.7	09	200.000	219.48	9.7

m,p-Xylenes

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.88	-12.3	02	2.000	1.83	-8.6	03	4.000	3.85	-3.7
04	10.000	10.12	1.2	05	40.000	39.67	-0.8	06	100.000	109.66	9.7
07	200.000	215.86	7.9	08	300.000	316.83	5.6	09	400.000	404.55	1.1

Initial Calibration - Detailed Report

Calibration ID:	RC1500024	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

n-Butyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.7	02	1.000	0.87	-13.0	03	2.000	2.00	0.0
04	5.000	4.78	-4.3	05	20.000	20.32	1.6	06	50.000	51.10	2.2
07	100.000	103.82	3.8	08	150.000	159.39	6.3	09	200.000	212.32	6.2

n-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.42	-16.3	02	1.000	0.94	-6.2	03	2.000	2.04	2.1
04	5.000	5.08	1.6	05	20.000	21.80	9.0	06	50.000	56.44	12.9
07	100.000	103.75	3.7	08	150.000	149.83	-0.1	09	200.000	186.53	-6.7

n-Heptane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.8	02	1.000	0.93	-6.5	03	2.000	2.10	5.1
04	5.000	4.74	-5.1	05	20.000	20.49	2.4	06	50.000	51.53	3.1
07	100.000	98.09	-1.9	08	150.000	147.80	-1.5	09	200.000	210.46	5.2

n-Propylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.4	02	1.000	0.97	-3.3	03	2.000	2.18	9.2
04	5.000	5.31	6.1	05	20.000	21.26	6.3	06	50.000	57.44	14.9
07	100.000	102.39	2.4	08	150.000	138.57	-7.6	09	200.000	164.81	-17.6

o-Xylene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-12.4	02	1.000	0.88	-11.6	03	2.000	1.91	-4.4
04	5.000	4.93	-1.5	05	20.000	19.19	-4.0	06	50.000	52.83	5.7
07	100.000	106.83	6.8	08	150.000	163.27	8.8	09	200.000	225.29	12.6

sec-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.2	02	1.000	0.94	-6.1	03	2.000	2.09	4.6
04	5.000	5.17	3.4	05	20.000	21.24	6.2	06	50.000	57.19	14.4
07	100.000	104.47	4.5	08	150.000	142.97	-4.7	09	200.000	173.89	-13.1

tert-Amyl Methyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.8	02	1.000	0.89	-10.6	03	2.000	1.93	-3.4
04	5.000	4.97	-0.7	05	20.000	18.19	-9.1	06	50.000	52.85	5.7
07	100.000	104.47	4.5	08	150.000	161.79	7.9	09	200.000	219.07	9.5

tert-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-14.9	02	1.000	0.92	-8.1	03	2.000	2.04	2.1
04	5.000	5.12	2.4	05	20.000	20.51	2.6	06	50.000	55.35	10.7
07	100.000	103.83	3.8	08	150.000	152.29	1.5	09	200.000	199.76	-0.1

Initial Calibration - Detailed Report

Calibration ID:	RC1500024	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

trans-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-5.0	02	1.000	0.96	-3.8	03	2.000	1.96	-2.1
04	5.000	5.02	0.3	05	20.000	18.36	-8.2	06	50.000	52.96	5.9
07	100.000	101.05	1.0	08	150.000	155.05	3.4	09	200.000	216.78	8.4

trans-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.8	02	1.000	0.90	-9.8	03	2.000	1.95	-2.7
04	5.000	4.73	-5.3	05	20.000	19.38	-3.1	06	50.000	53.46	6.9
07	100.000	103.58	3.6	08	150.000	162.39	8.3	09	200.000	221.88	10.9

trans-1,4-Dichloro-2-butene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.4	02	1.000	0.81	-18.5	03	2.000	1.85	-7.4
04	5.000	4.75	-5.0	05	20.000	19.17	-4.2	06	50.000	51.14	2.3
07	100.000	102.94	2.9	08	150.000	162.91	8.6	09	200.000	215.81	7.9

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 11:03:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

FP 3/17/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.968	168	782265	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.150	114	1159948	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.576	117	1142943	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.661	152	697355	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	4.833	113	354306	50.34	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.68%				
46) surr1,1,2-dichloroetha...	5.419	65	365533	51.60	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 103.20%				
64) SURR3,Toluene-d8	8.046	98	1383877	54.12	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.24%				
69) SURR2,BFB	10.674	95	608071	56.98	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 113.96%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.176	85	3368m	0.45	ug/L		
3) Chloromethane	1.279	50	5050m	0.36	ug/L		
4) Vinyl Chloride	1.352	62	3635	0.38	ug/L		99
5) Bromomethane	1.578	94	1037	0.25	ug/L	#	76
6) Chloroethane	1.639	64	2378	0.54	ug/L		79
7) Freon 21	1.767	67	5681	0.48	ug/L		90
8) Trichlorofluoromethane	1.816	101	4831	0.53	ug/L		94
9) Diethyl Ether	2.017	59	2568	0.46	ug/L	#	71
10) Freon 123a	2.017	67	4656	0.63	ug/L		95
11) Freon 123	2.060	83	4082	0.56	ug/L		82
12) Acrolein	2.108	56	1661	2.02	ug/L	#	43
13) 1,1-Diclethene	2.200	96	2601	0.54	ug/L		96
14) Freon 113	2.194	101	3198	0.60	ug/L		78
16) 2-Propanol	2.328	45	3096	9.62	ug/L	#	49
17) Iodomethane	2.316	142	700	0.30	ug/L		70
18) Carbon Disulfide	2.383	76	10161	0.59	ug/L		95
20) Allyl Chloride	2.493	76	1559	0.50	ug/L	#	61
21) Methyl Acetate	2.505	43	2657m	0.55	ug/L		
22) Methylene Chloride	2.602	84	2706	0.50	ug/L		93
23) TBA	2.694	59	5004	12.62	ug/L	#	12
24) Acrylonitrile	2.822	53	4439	2.13	ug/L		99
25) Methyl-t-Butyl Ether	2.864	73	8391	0.66	ug/L		90
26) trans-1,2-Dichloroethene	2.870	96	3233	0.61	ug/L		92
27) 1,1-Diclethane	3.309	63	5393	0.42	ug/L		80
28) Vinyl Acetate	3.389	86	656m	0.85	ug/L		
29) DIPE	3.407	45	13380	0.40	ug/L		88
30) 2-Chloro-1,3-Butadiene	3.425	53	6064	0.39	ug/L		81
31) ETBE	3.876	59	10995	0.50	ug/L		85
32) 2,2-Dichloropropane	4.047	77	4429	0.57	ug/L		89
33) cis-1,2-Dichloroethene	4.053	96	3571m	0.54	ug/L		
35) Propionitrile	4.181	54	1943	4.15	ug/L	#	1
36) Bromochloromethane	4.407	130	2062m	0.50	ug/L		
37) Methacrylonitrile	4.419	67	1598	1.02	ug/L	#	79
39) Chloroform	4.565	83	5591m	0.53	ug/L		

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 11:03:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	4.858	97	5005	0.56	ug/L		86
42) Cyclohexane	4.955	41	3799	0.38	ug/L		87
44) Carbontetrachloride	5.163	121	1604	0.66	ug/L		83
45) 1,1-Dichloropropene	5.157	75	4370	0.51	ug/L		95
47) Benzene	5.504	78	13352	0.53	ug/L		88
48) 1,2-Dichloroethane	5.535	62	4331	0.48	ug/L		93
49) Iso-Butyl Alcohol	5.492	43	1630	7.55	ug/L		86
50) TAME	5.748	73	8731	0.63	ug/L	#	54
51) n-Heptane	6.010	43	4835	0.41	ug/L	#	76
52) 1-Butanol	6.528	56	4629	89.79	ug/L		77
53) Trichloroethene	6.498	130	3278	0.46	ug/L	#	88
54) Methylcyclohexane	6.742	55	5180	0.46	ug/L		84
55) 1,2-Diclpropane	6.790	63	3337m	0.42	ug/L		
56) Dibromomethane	6.937	93	2125	0.62	ug/L	#	66
57) 1,4-Dioxane	7.022	88	286	7.39	ug/L	#	32
58) Methyl Methacrylate	7.016	69	2013m	1.13	ug/L		
59) Bromodichloromethane	7.168	83	4971	0.62	ug/L		93
60) 2-Nitropropane	7.467	41	1652m	1.63	ug/L		
61) 2-Chloroethylvinyl Ether	7.595	63	1621	0.45	ug/L		98
62) cis-1,3-Dichloropropene	7.735	75	5165	0.57	ug/L		96
63) 4-Methyl-2-pentanone	7.955	43	2933	0.49	ug/L		88
65) Toluene	8.119	91	12997	0.48	ug/L		88
66) trans-1,3-Dichloropropene	8.394	75	4458	0.76	ug/L		79
67) Ethyl Methacrylate	8.546	69	4054	0.93	ug/L		77
68) 1,1,2-Trichloroethane	8.583	97	3054	0.65	ug/L	#	64
71) Tetrachloroethene	8.729	164	2904	0.48	ug/L	#	80
72) 2-Hexanone	8.894	43	1913	0.45	ug/L		74
73) 1,3-Dichloropropane	8.772	76	4033	0.49	ug/L		89
74) Dibromochloromethane	8.997	129	3397	0.57	ug/L		99
75) N-Butyl Acetate	9.058	43	4991	0.47	ug/L		95
76) 1,2-Dibromoethane	9.101	107	2655	0.56	ug/L	#	65
77) 3-Chlorobenzotrifluoride	9.625	180	5304	0.44	ug/L	#	83
78) Chlorobenzene	9.607	112	9069	0.46	ug/L		94
79) 4-Chlorobenzotrifluoride	9.686	180	4597	0.41	ug/L		79
80) 1,1,1,2-Tetrachloroethane	9.698	131	3796	0.56	ug/L	#	87
81) Ethylbenzene	9.729	106	4647	0.46	ug/L		95
82) (m+p)Xylene	9.845	106	11811	0.99	ug/L	#	76
83) o-Xylene	10.204	106	5903	0.49	ug/L		97
84) Styrene	10.223	104	9804	0.49	ug/L		94
85) Bromoform	10.375	173	1945	0.69	ug/L		71
86) 2-Chlorobenzotrifluoride	10.454	180	4967	0.41	ug/L		84
87) Isopropylbenzene	10.546	105	14946	0.50	ug/L		97
88) Cyclohexanone	10.613	55	5682	13.45	ug/L		99
89) trans-1,4-Dichloro-2-B...	10.863	53	1275	0.61	ug/L	#	73
91) 1,1,2,2-Tetrachloroethane	10.808	83	3640	0.58	ug/L		91
92) Bromobenzene	10.796	156	4475	0.48	ug/L		88
93) 1,2,3-Trichloropropane	10.838	110	692	0.42	ug/L	#	1
94) n-Propylbenzene	10.906	91	17359	0.48	ug/L		92
95) 2-Chlorotoluene	10.973	91	10988	0.49	ug/L		90
96) 3-Chlorotoluene	11.027	91	11855	0.48	ug/L		85
97) 4-Chlorotoluene	11.064	91	13594	0.50	ug/L		88

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

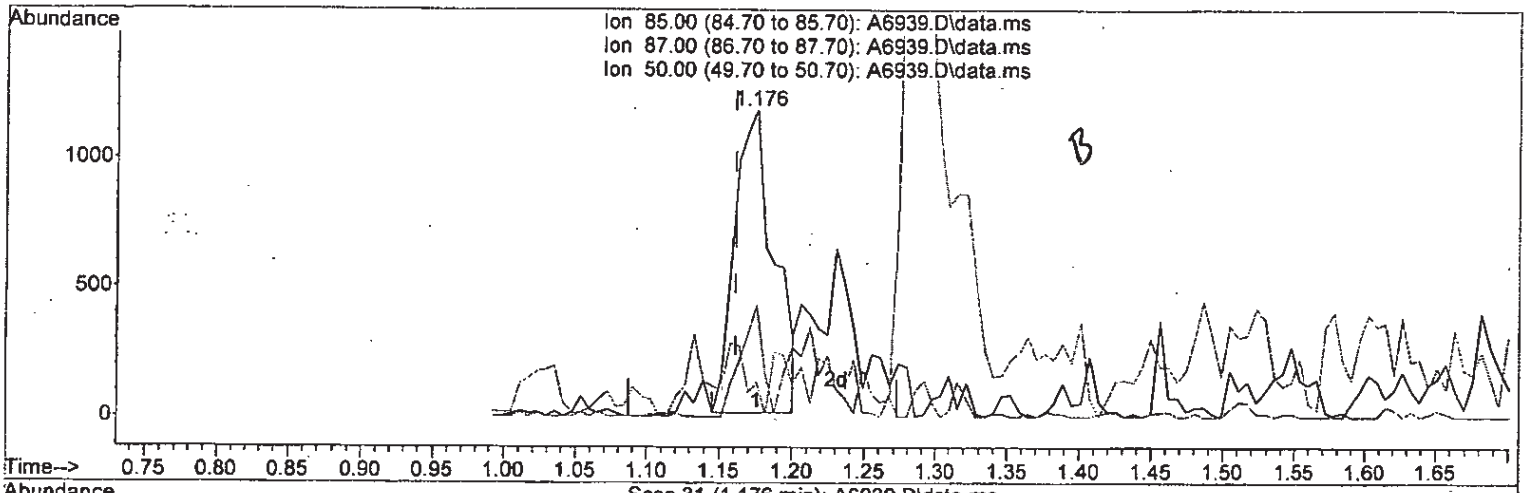
Quant Time: Mar 17 11:03:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

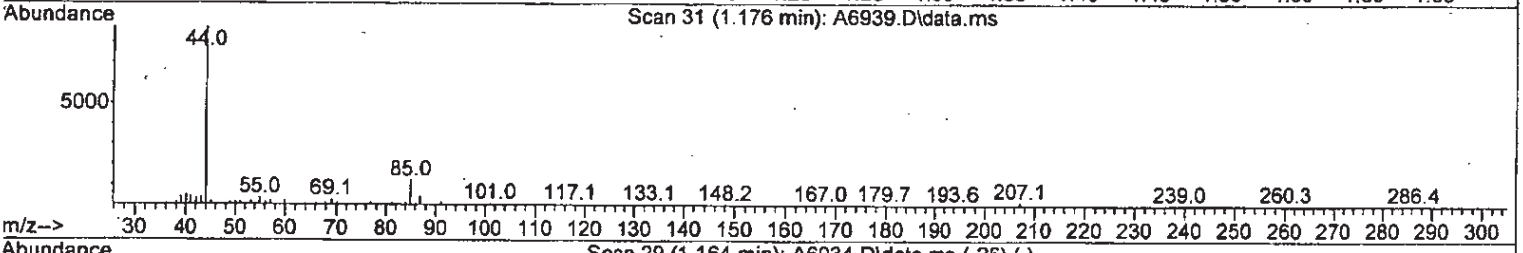
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
98)	1,3,5-Trimethylbenzene	11.064	105	12477	0.47	ug/L		90
99)	tert-Butylbenzene	11.338	119	10699	0.47	ug/L		94
100)	1,2,4-Trimethylbenzene	11.381	105	14126	0.53	ug/L		93
101)	3,4-Dichlorobenzotrifl...	11.442	214	4194	0.42	ug/L		93
102)	sec-Butylbenzene	11.521	105	15627	0.49	ug/L		94
103)	p-Isopropyltoluene	11.643	119	13294	0.48	ug/L		87
104)	1,3-Dclbenz	11.607	146	8649	0.47	ug/L		95
105)	1,4-Dclbenz	11.680	146	9034	0.48	ug/L	#	78
106)	2,4-Dichlorobenzotrifl...	11.741	214	4387m	0.49	ug/L		
107)	2,5-Dichlorobenzotrifl...	11.777	214	3989	0.38	ug/L		86
108)	n-Butylbenzene	11.978	91	11224	0.47	ug/L		88
109)	1,2-Dclbenz	11.985	146	8030	0.48	ug/L		91
110)	1,2-Dibromo-3-chloropr...	12.606	157	645	0.58	ug/L		97
111)	Trielution Dichlorotol...	12.734	125	21840	1.47	ug/L		92
112)	1,3,5-Trichlorobenzene	12.783	180	5526	0.39	ug/L	#	73
113)	Coelution Dichlorotoluene	13.058	125	15033	0.98	ug/L		92
114)	1,2,4-Tcbenzene	13.265	180	5586	0.48	ug/L		89
115)	Hexachlorobt	13.411	225	2501	0.46	ug/L	#	73
116)	Naphthalen	13.460	128	9695	0.54	ug/L		97
117)	1,2,3-Tclbenzene	13.649	180	3671	0.40	ug/L	#	71
118)	2,4,5-Trichlorotoluene	14.234	159	2431m	0.36	ug/L		
119)	2,3,6-Trichlorotoluene	14.319	159	2385	0.34	ug/L		90

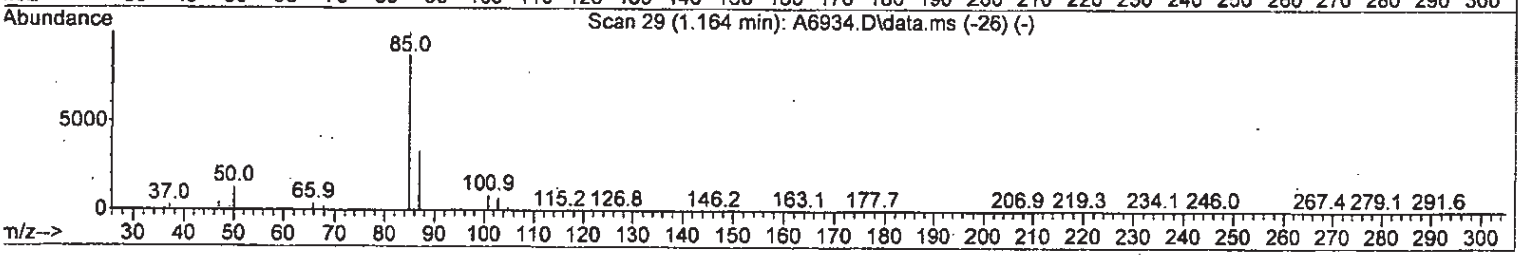
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6939.D\data.ms

(2) Dichlorodifluoromethane (P)

1.176min (+0.015) 0.29 ug/L

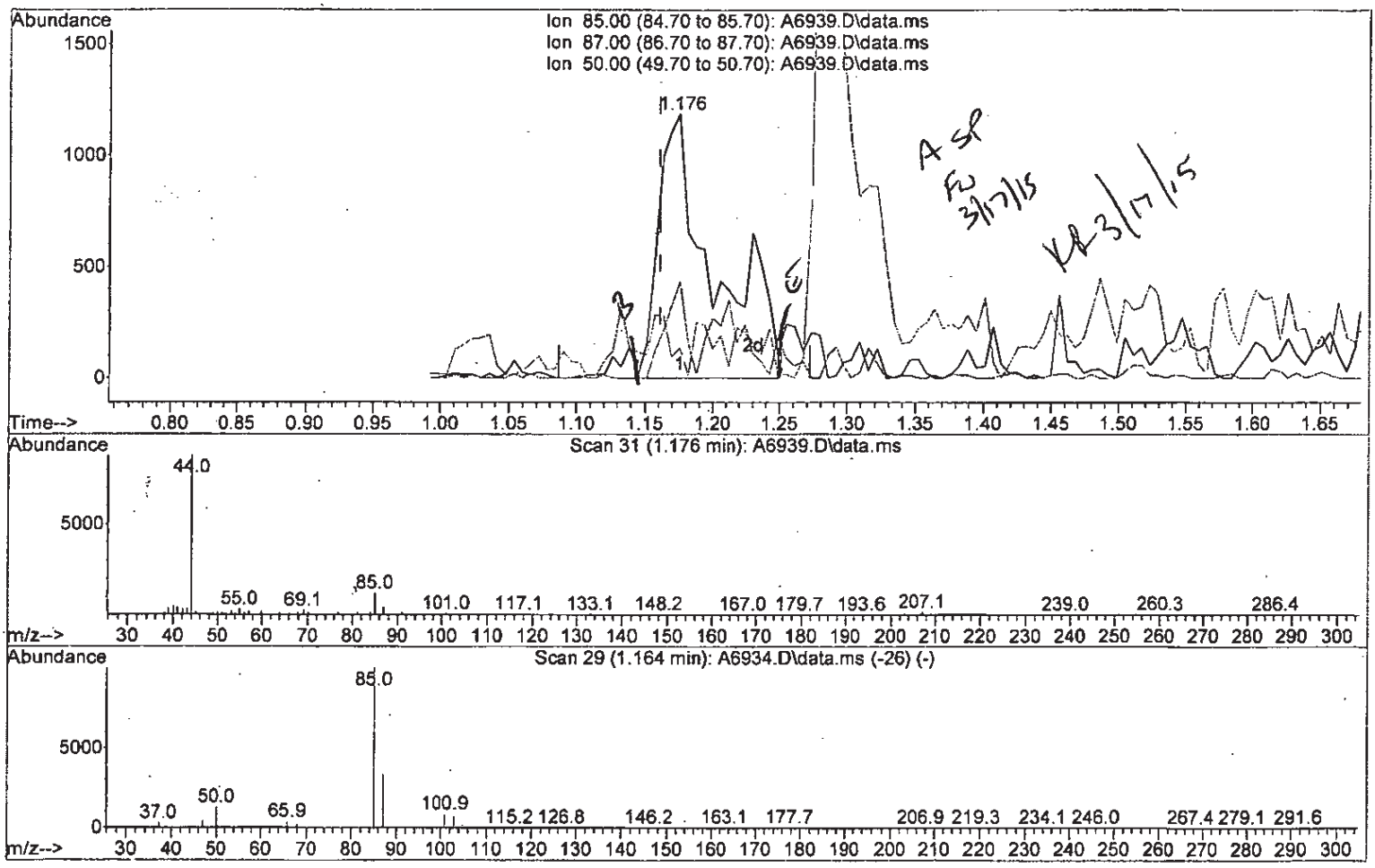
response 2182

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	36.26
50.00	15.00	11.13
0.00	0.00	0.00

00152

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(2) Dichlorodifluoromethane (P)

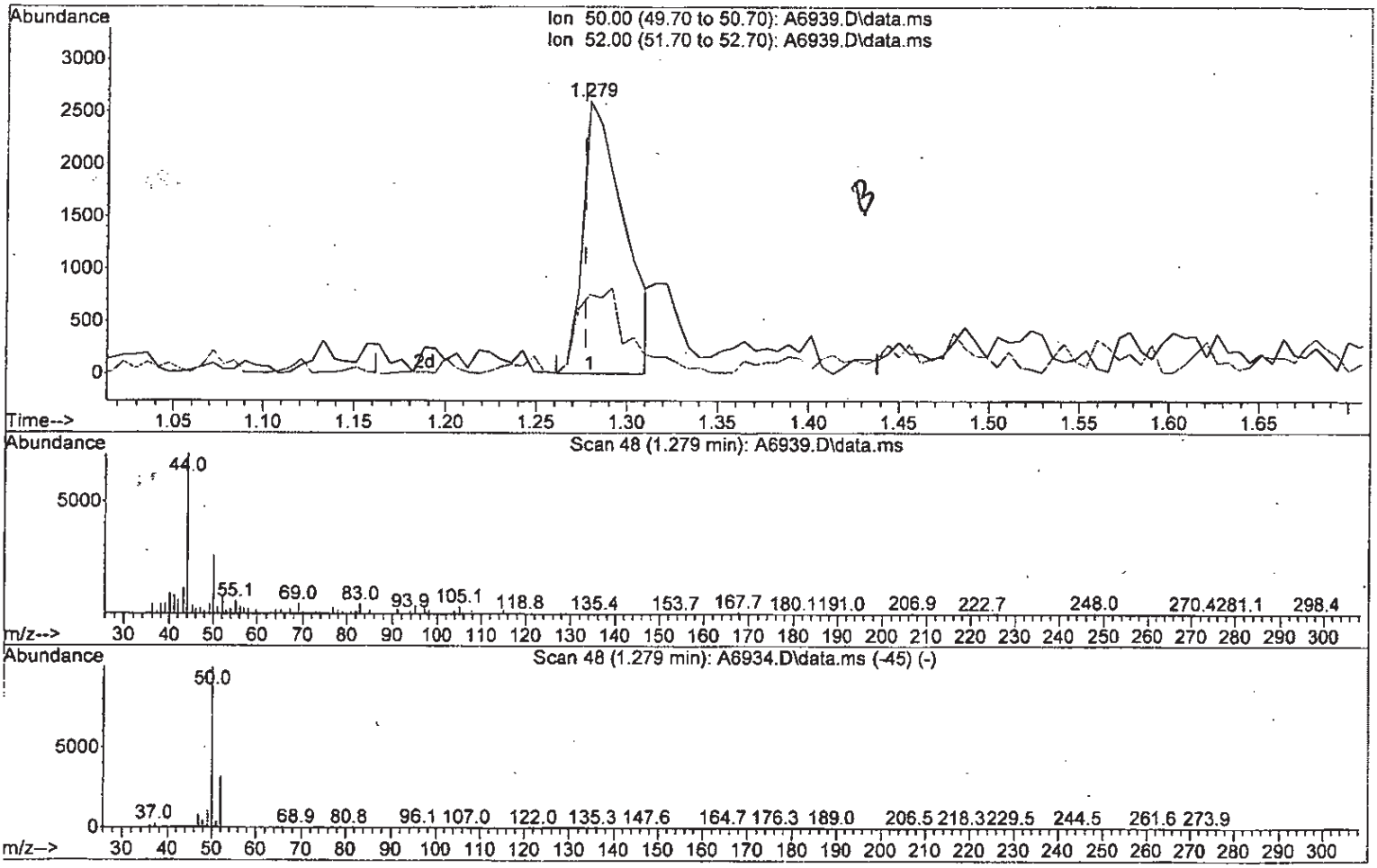
1.176min (+0.015) 0.45 ug/L m

response 3368

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	36.26
50.00	15.00	11.13
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(3) Chloromethane (P)

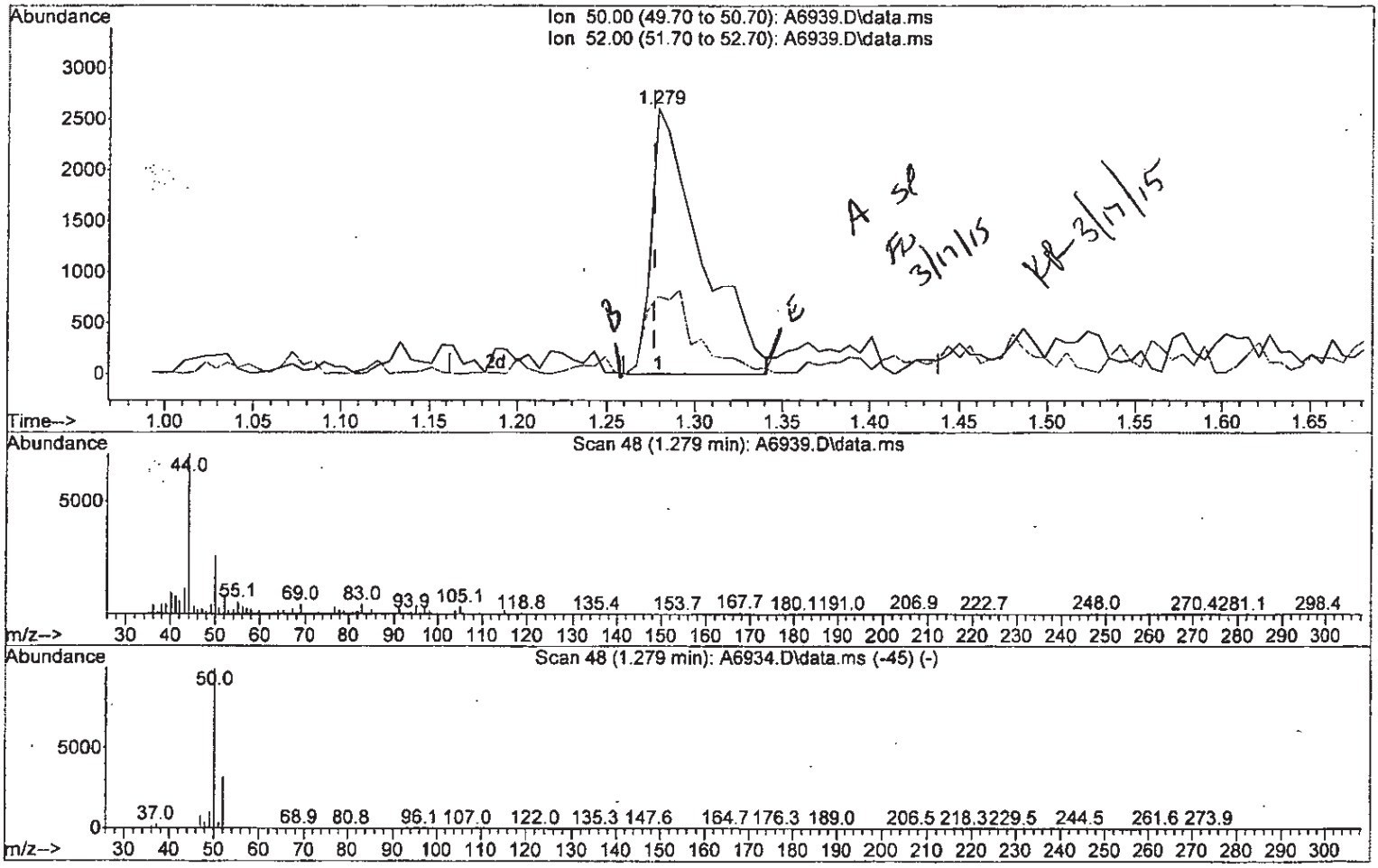
1.279min (+0.002) 0.29 ug/L

response 4081

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	29.09
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(3) Chloromethane (P)

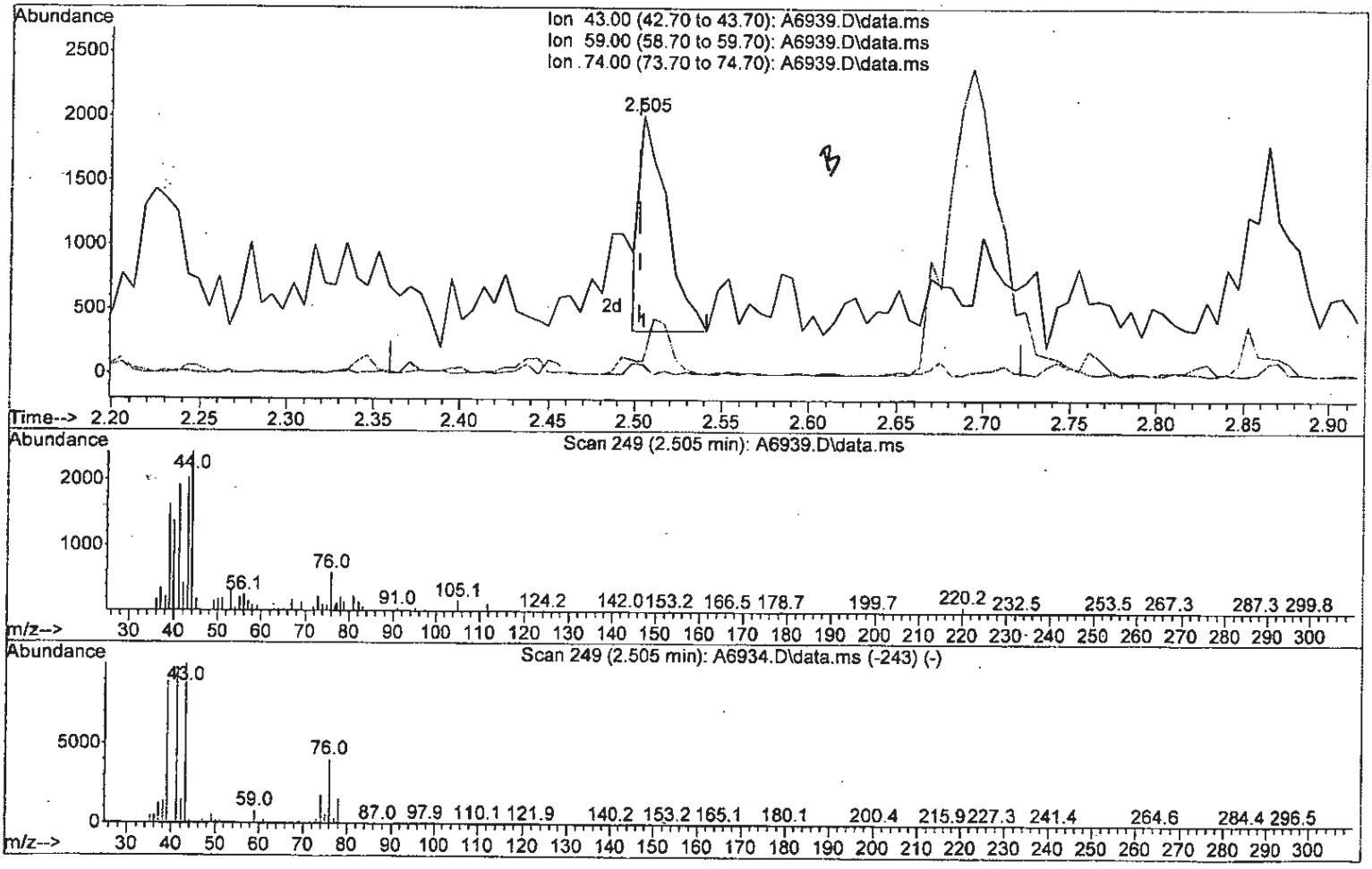
1.279min (+0.002) 0.36 ug/L m

response 5050

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	29.09
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(21) Methyl Acetate (P)

2.505min (+0.002) 0.37 ug/L

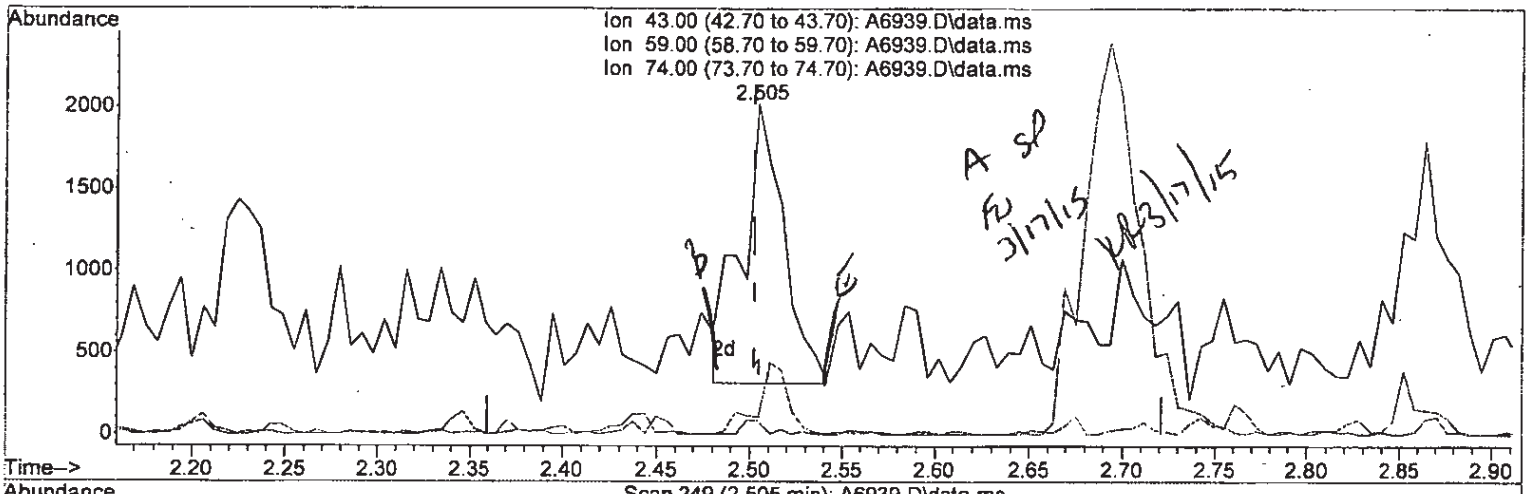
response 1792

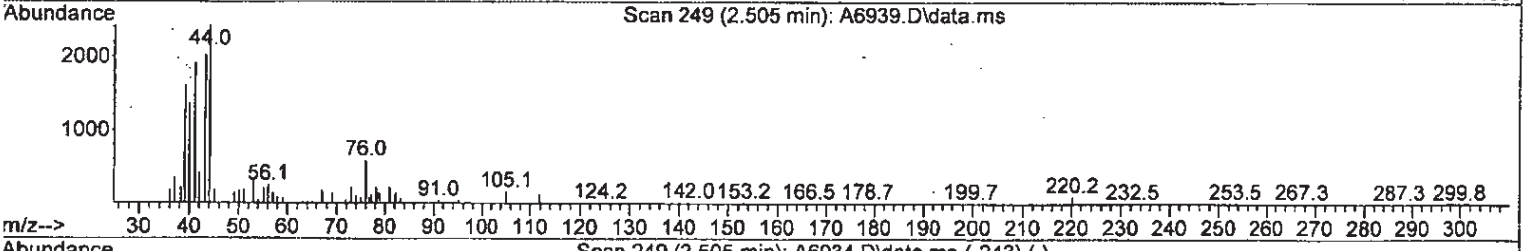
Ion	Exp%	Act%
43.00	100	100
59.00	8.40	3.78
74.00	20.50	4.97
0.00	0.00	0.00

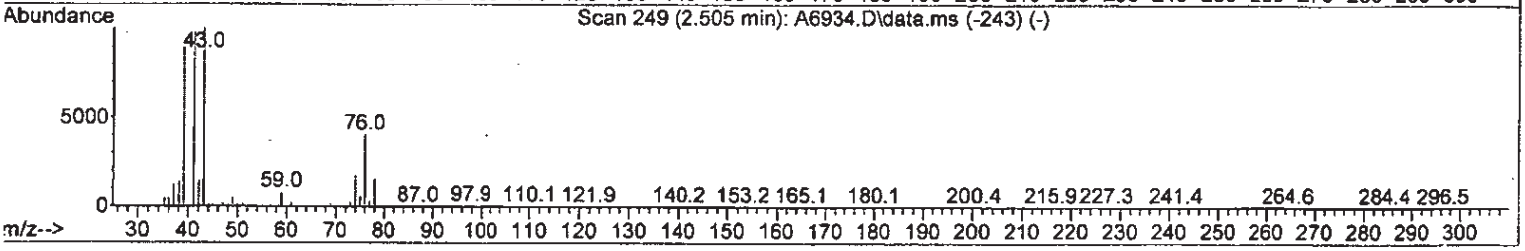
00136

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6939.D\data.ms

(21) Methyl Acetate (P)

2.505min (+0.002) 0.55 ug/L m

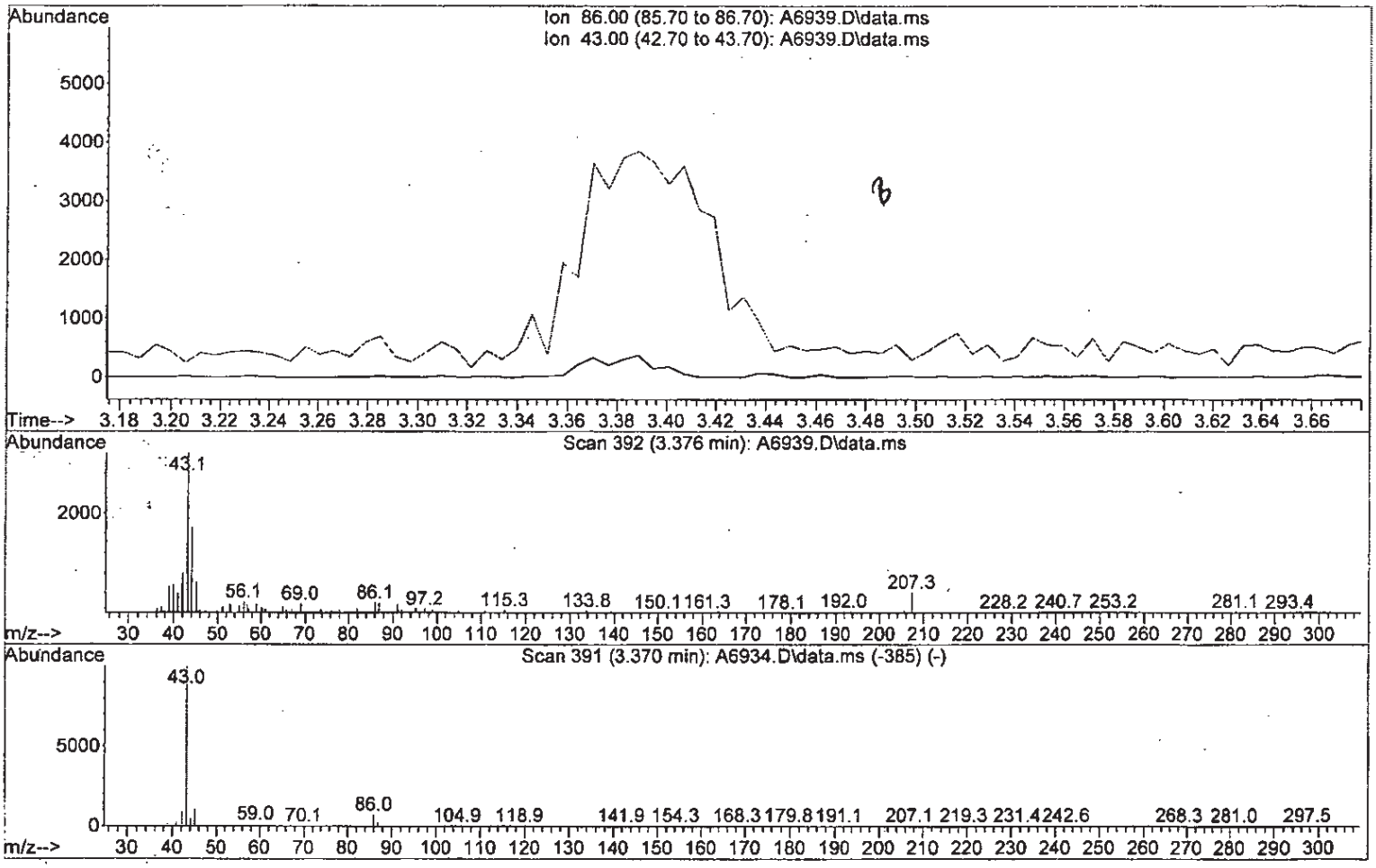
response 2657

Ion	Exp%	Act%
43.00	100	100
59.00	8.40	3.78
74.00	20.50	4.97
0.00	0.00	0.00

00137

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(28) Vinyl Acetate

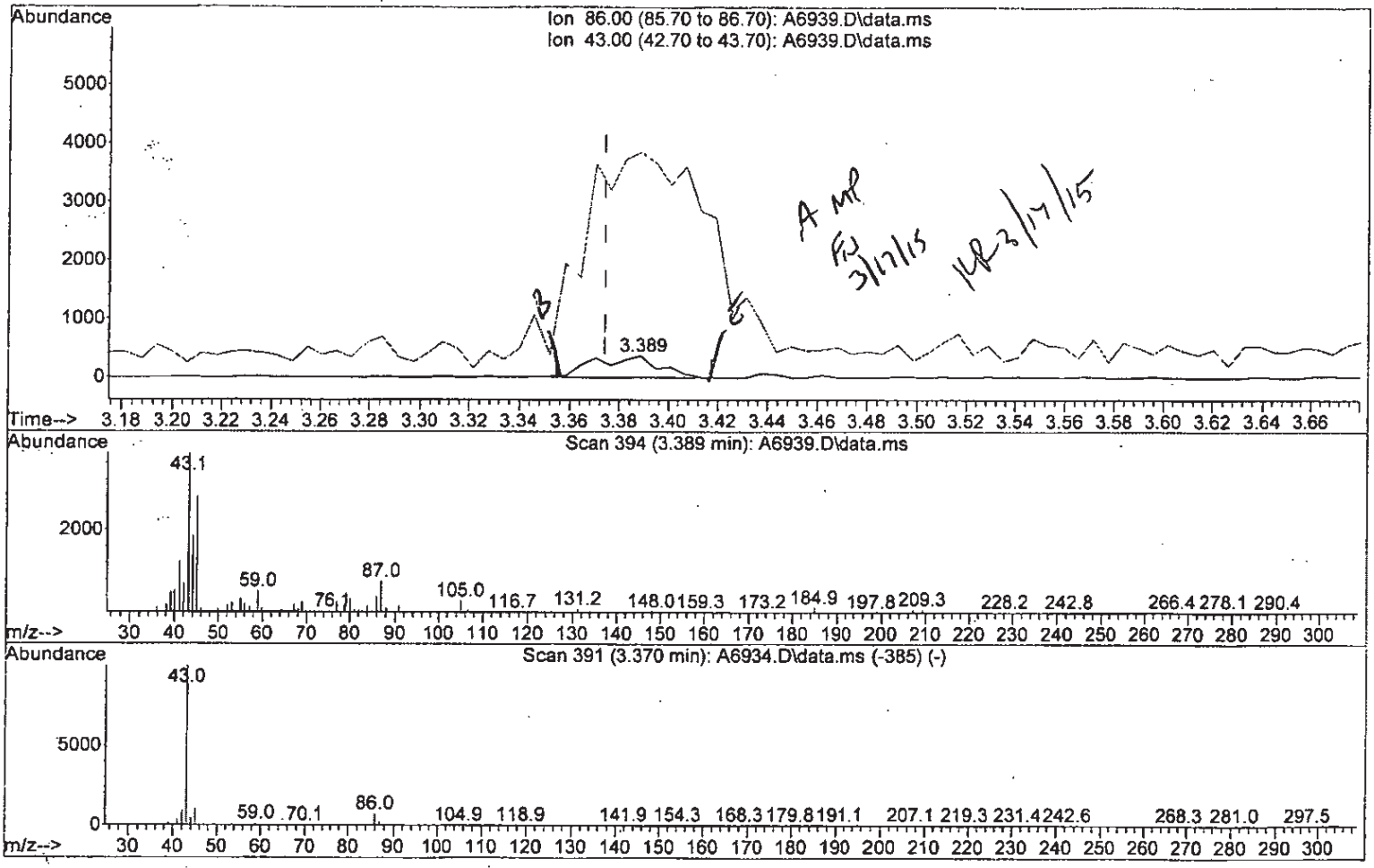
3.374min (-3.374) 0.00 ug/L

response 0

Ion	Exp%	Act%
86.00	100	0.00
43.00	1730.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(28) Vinyl Acetate

3.389min (+0.014) 0.85 ug/L m

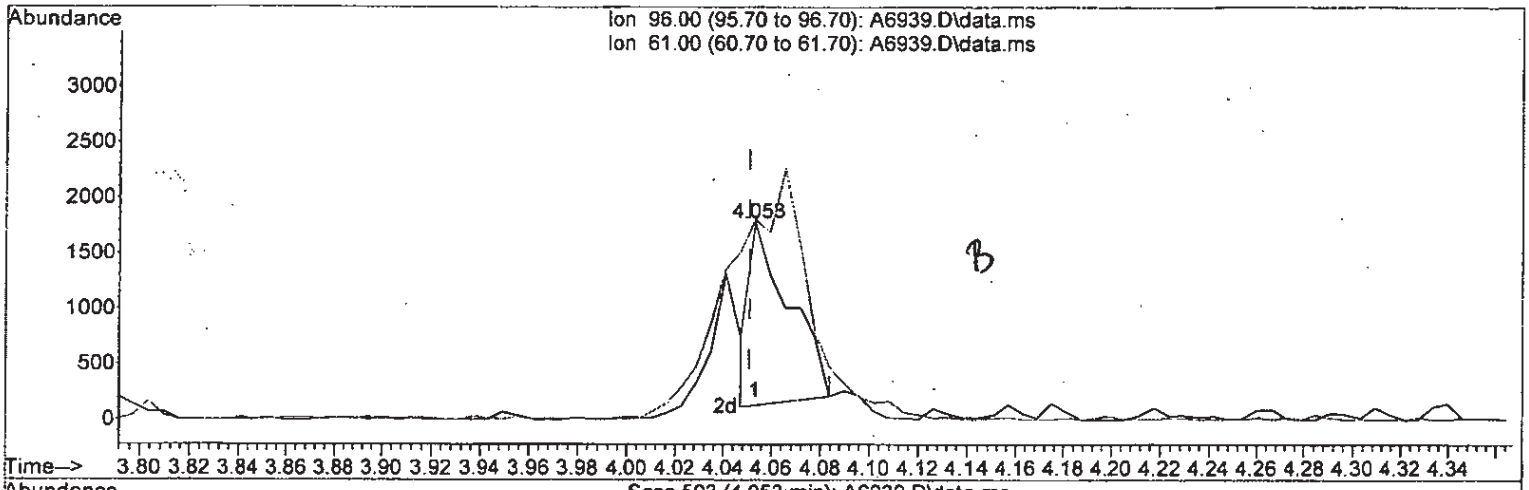
response 656

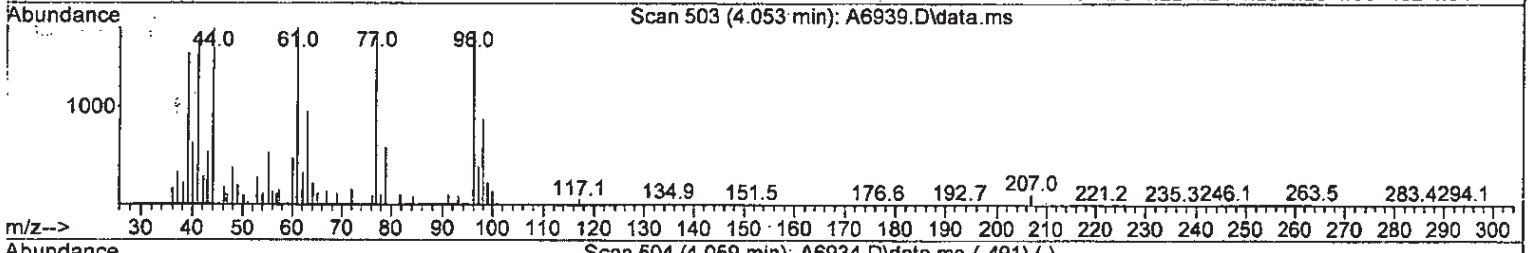
Ion	Exp%	Act%
86.00	100	100
43.00	1730.10	1050.96#
0.00	0.00	0.00
0.00	0.00	0.00

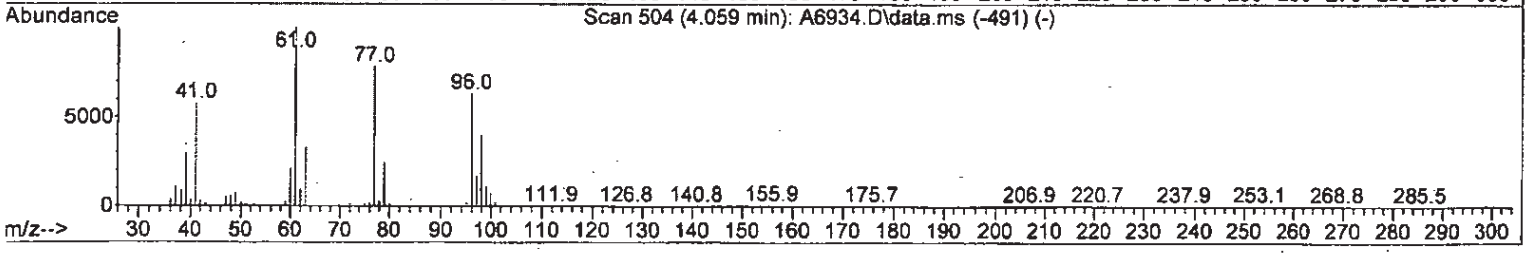
00139

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6939.D\data.ms

(33) cis-1,2-Dichloroethene (P)

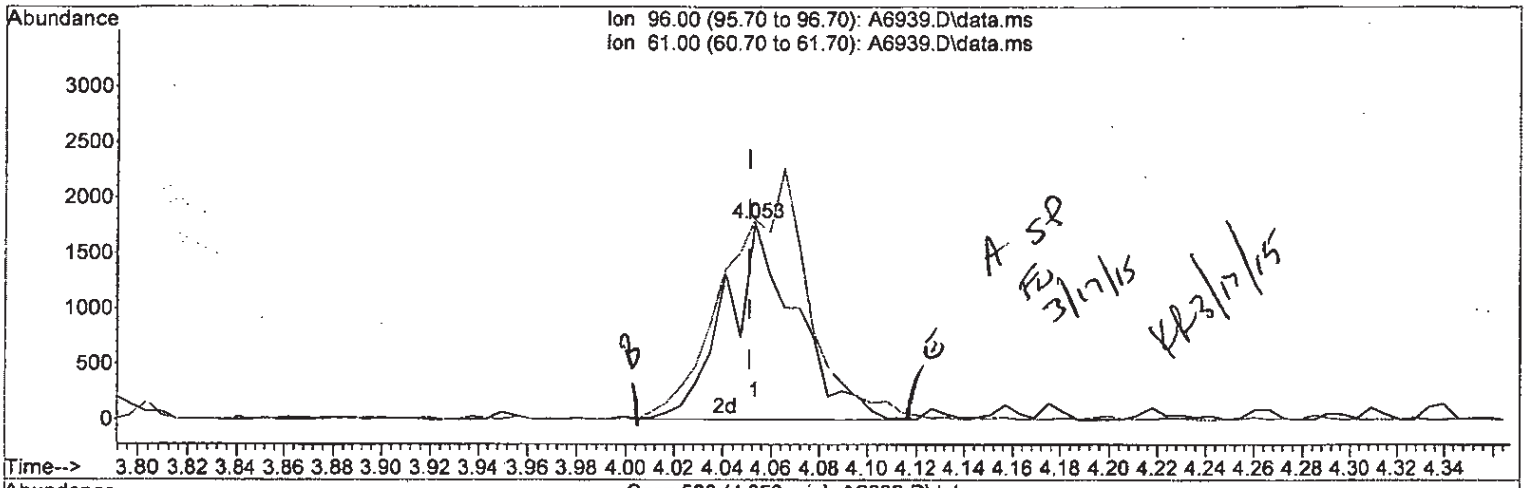
4.053min (+0.002) 0.28 ug/L

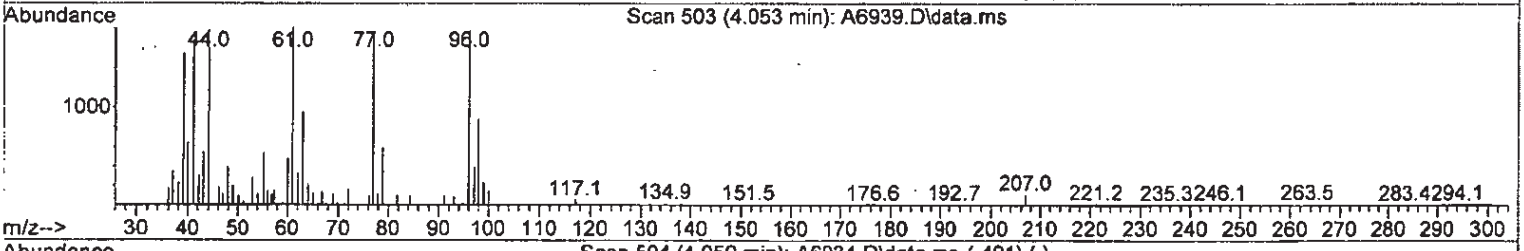
response 1860

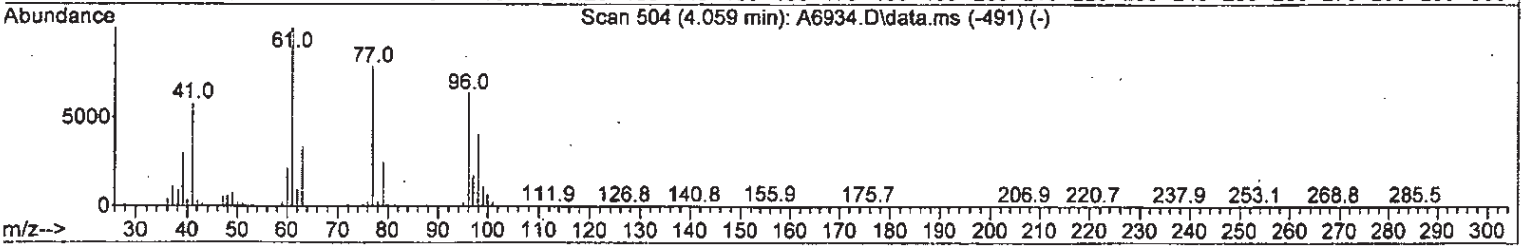
Ion	Exp%	Act%
96.00	100	100
61.00	158.80	101.86#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6939.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.053min (+0.002) 0.54 ug/L m

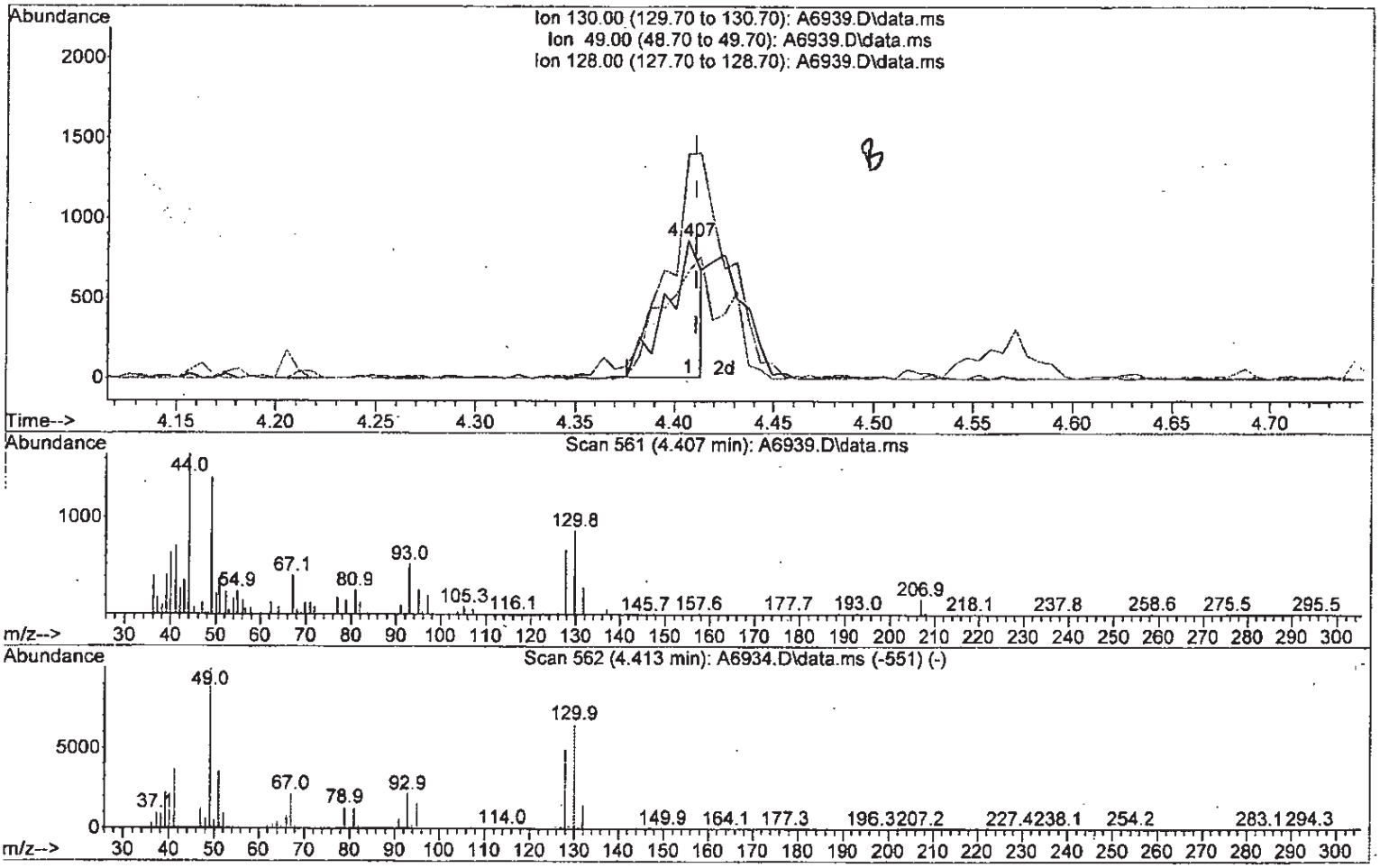
response 3571

Ion	Exp%	Act%
96.00	100	100
61.00	158.80	101.86#
0.00	0.00	0.00
0.00	0.00	0.00

00141

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(36) Bromochloromethane

4.407min (-0.004) 0.25 ug/L

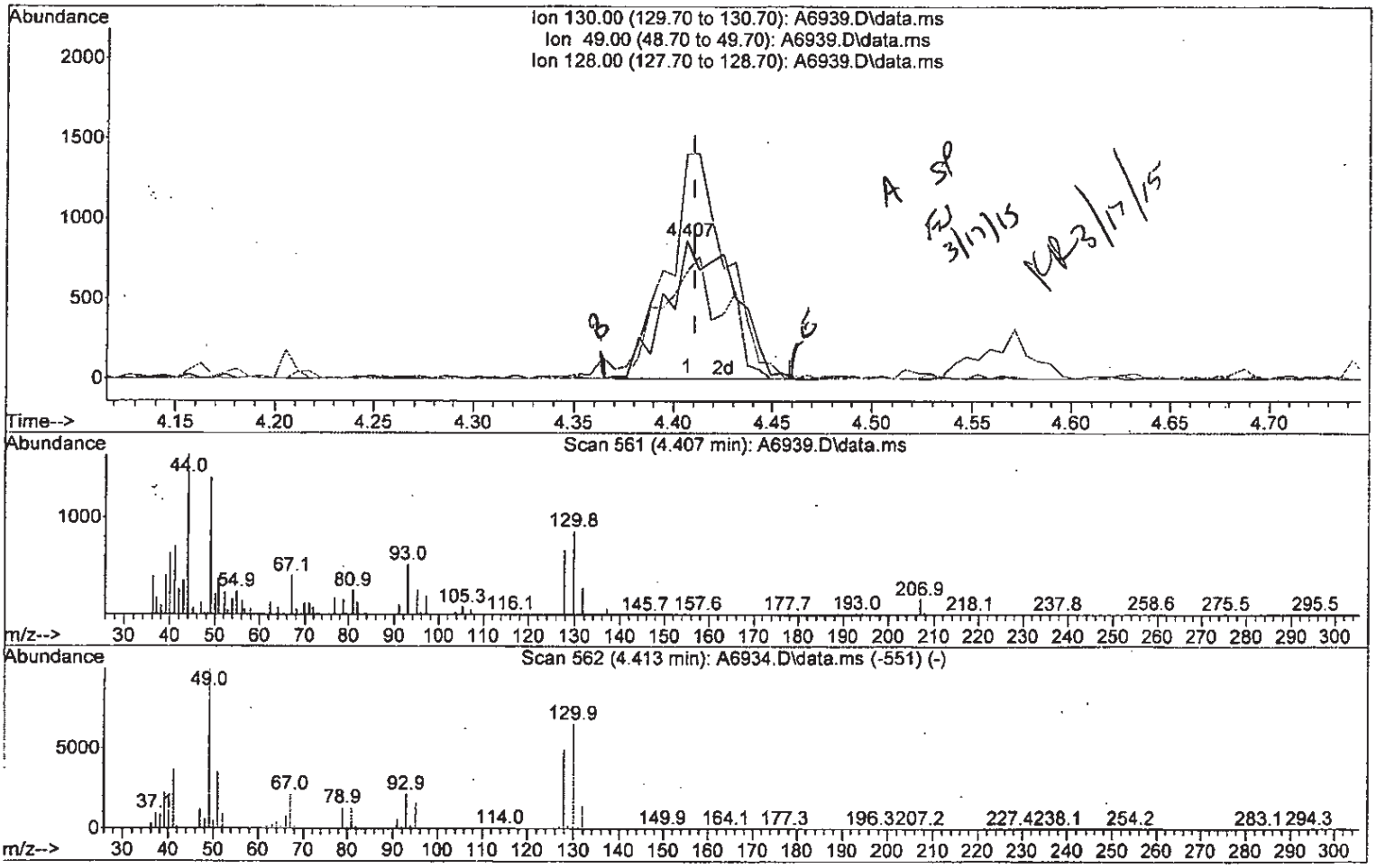
response 1047

Ion	Exp%	Act%
130.00	100	100
49.00	133.80	162.60#
128.00	75.20	77.35
0.00	0.00	0.00

00142

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(36) Bromochloromethane

4.407min (-0.004) 0.50 ug/L m

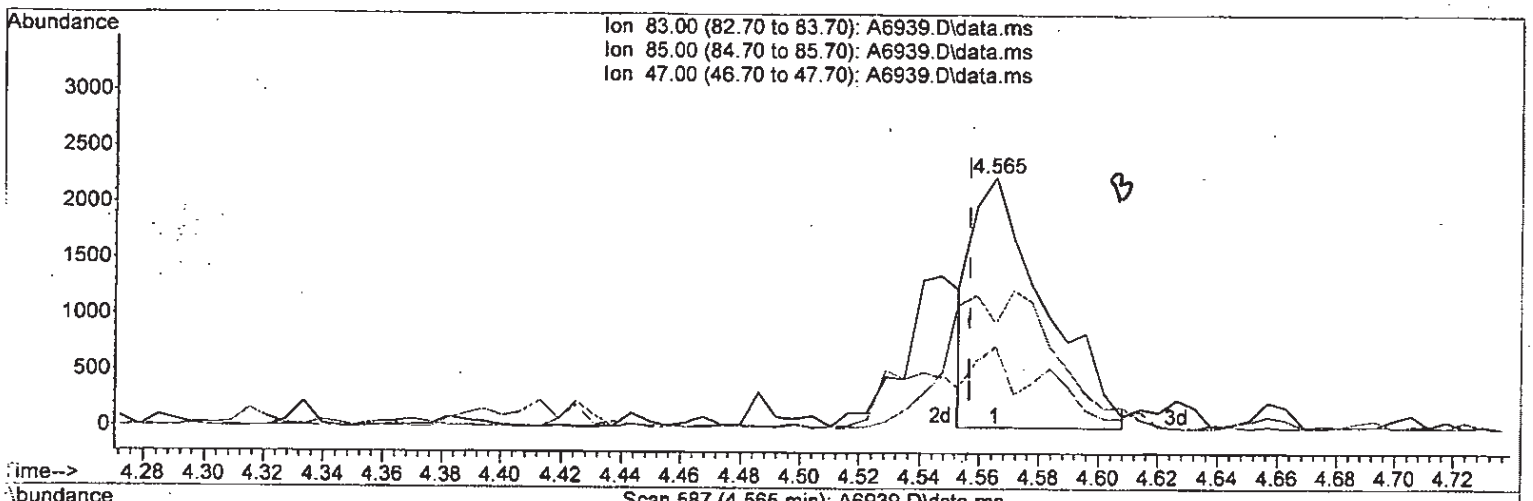
response 2062

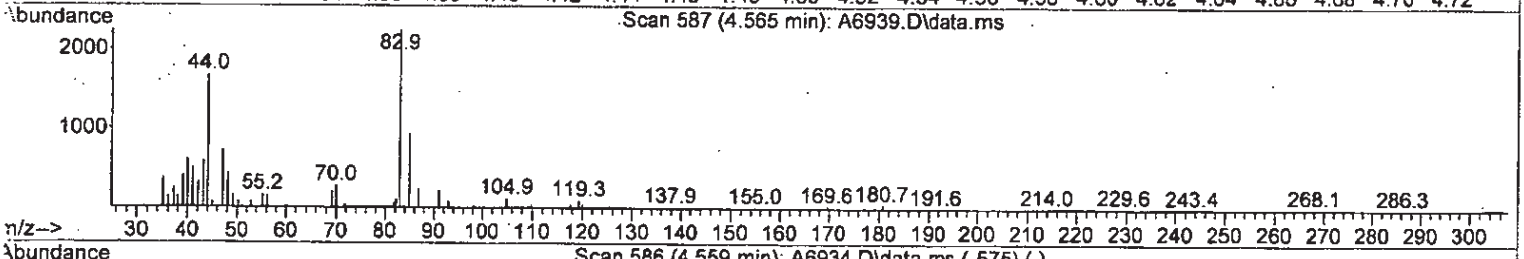
Ion	Exp%	Act%
130.00	100	100
49.00	133.80	162.60#
128.00	75.20	77.35
0.00	0.00	0.00

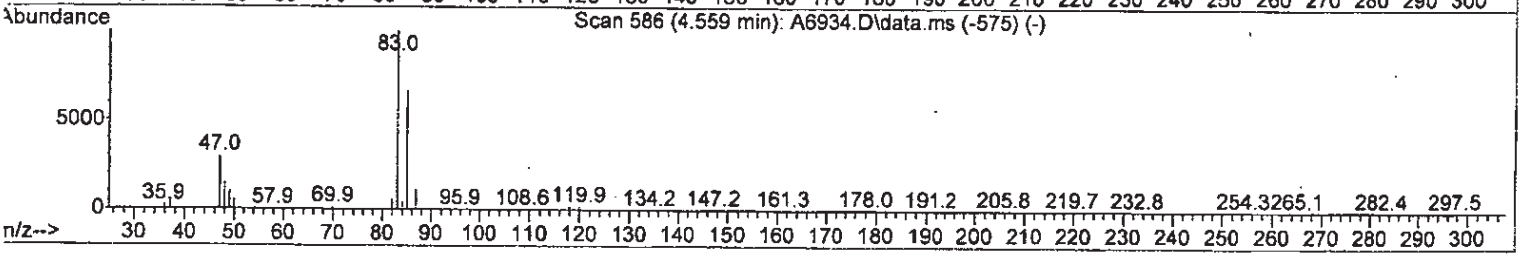
00143

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6939.D\data.ms

(39) Chloroform (P)

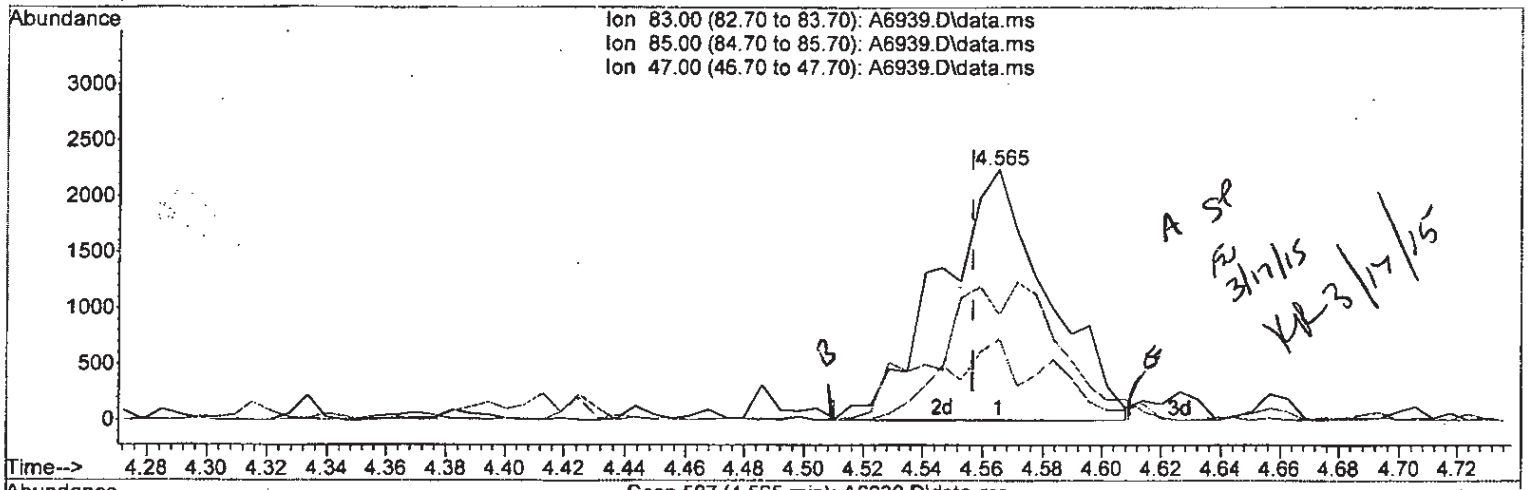
4.565min (+0.008) 0.35 ug/L

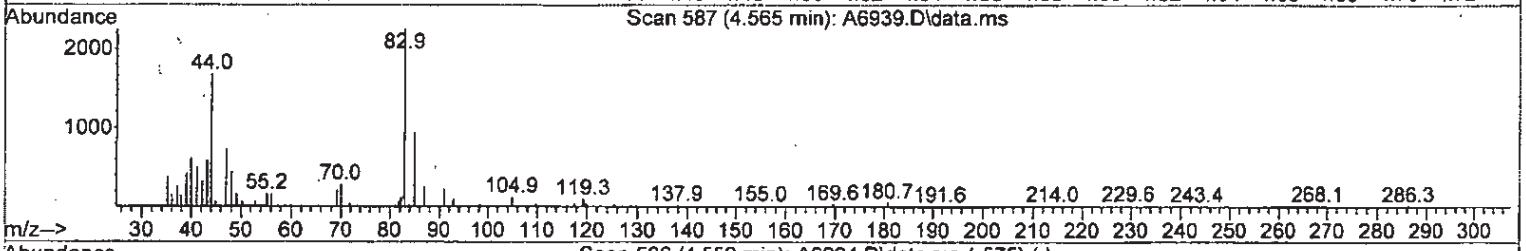
response 3718

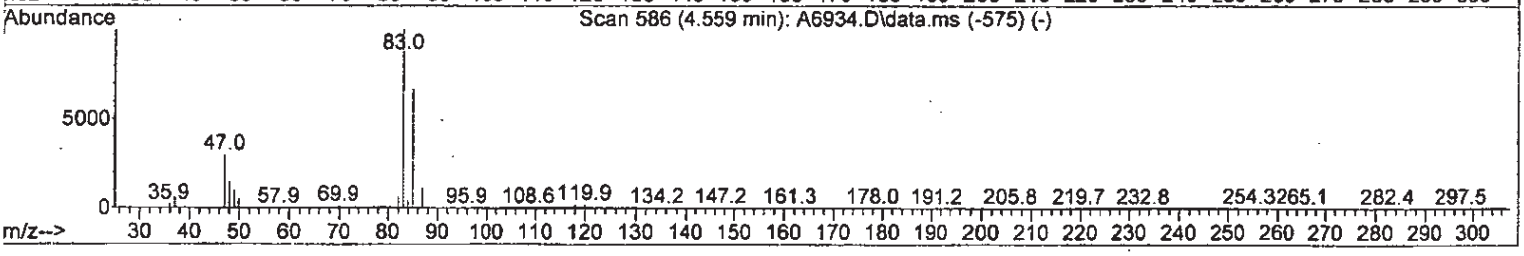
Ion	Exp%	Act%
83.00	100	100
85.00	64.00	41.87#
47.00	29.90	32.62
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6939.D\data.ms

(39) Chloroform (P)

4.565min (+0.008) 0.53 ug/L m

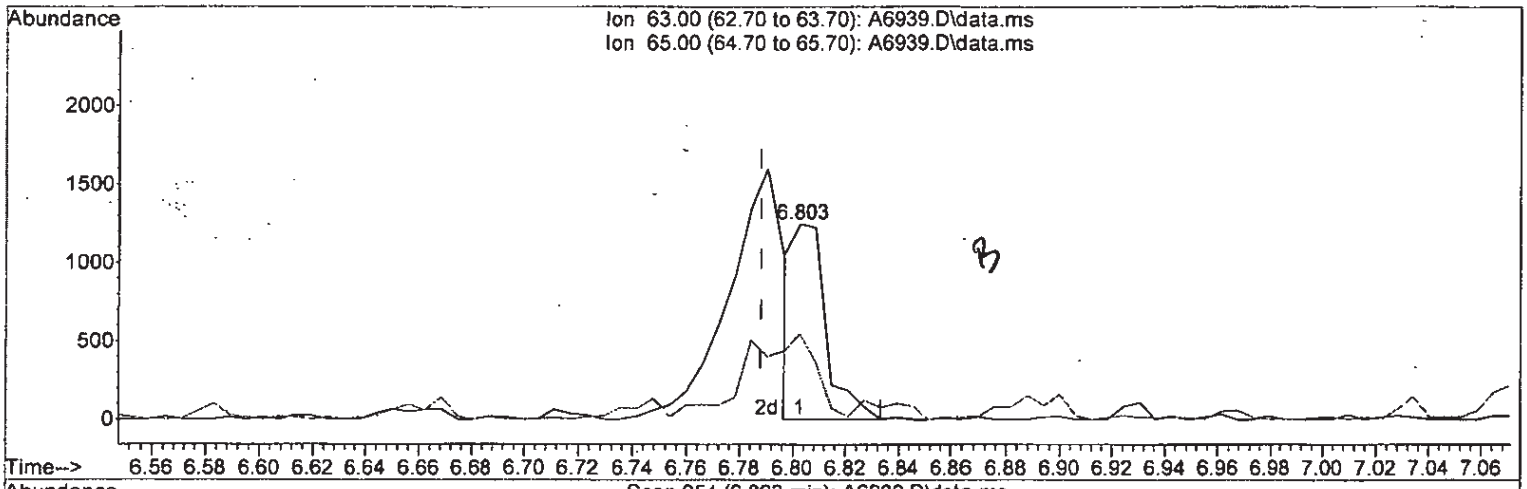
response 5591

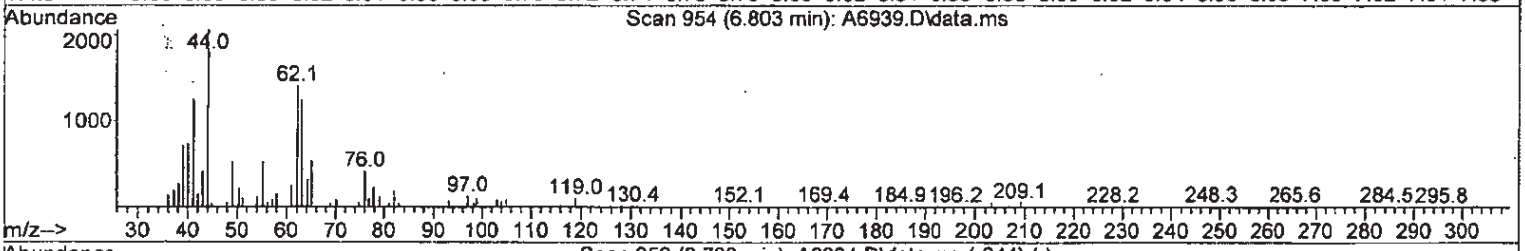
Ion	Exp%	Act%
83.00	100	100
85.00	64.00	41.87#
47.00	29.90	32.62
0.00	0.00	0.00

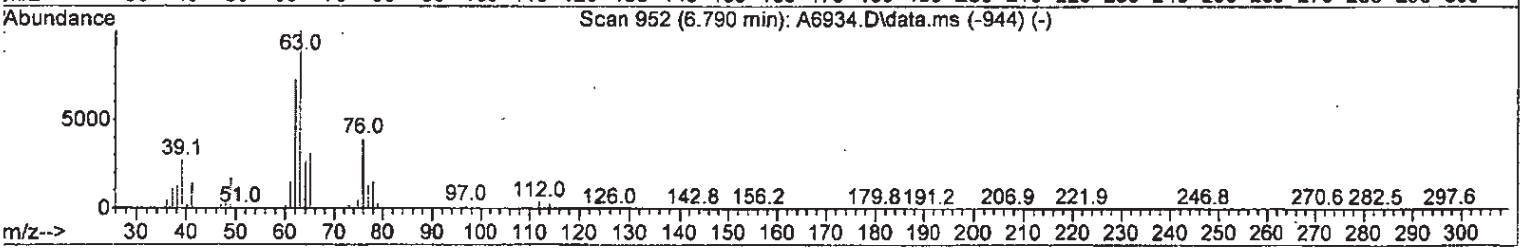
00145

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6939.D\data.ms

(55) 1,2-Dichlpropane (P)

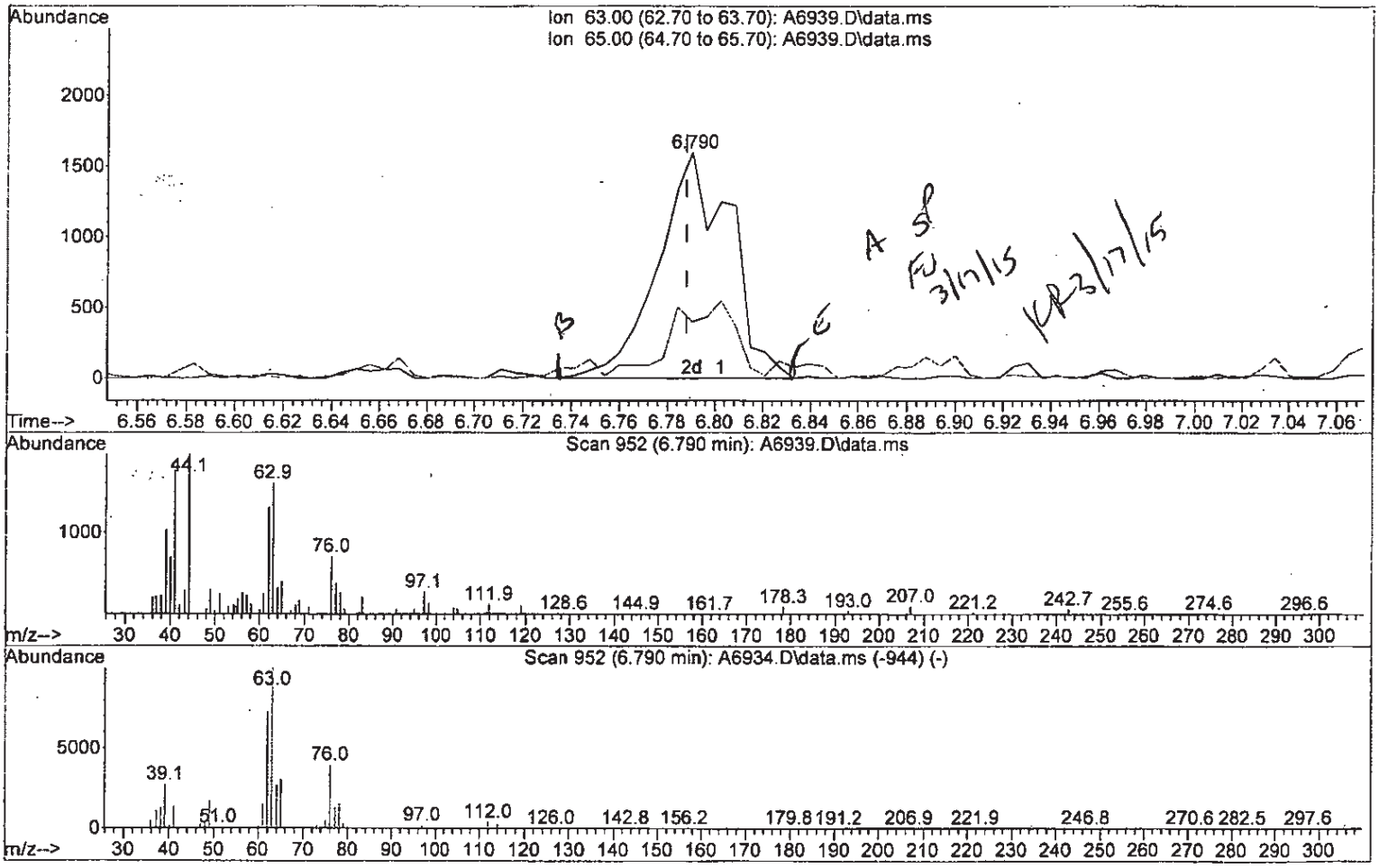
6.803min (+0.014) 0.14 ug/L

response 1077

Ion	Exp%	Act%
63.00	100	100
65.00	28.00	43.61
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(55) 1,2-Dichlpropane (P)

6.790min (+0.002) 0.42 ug/L m

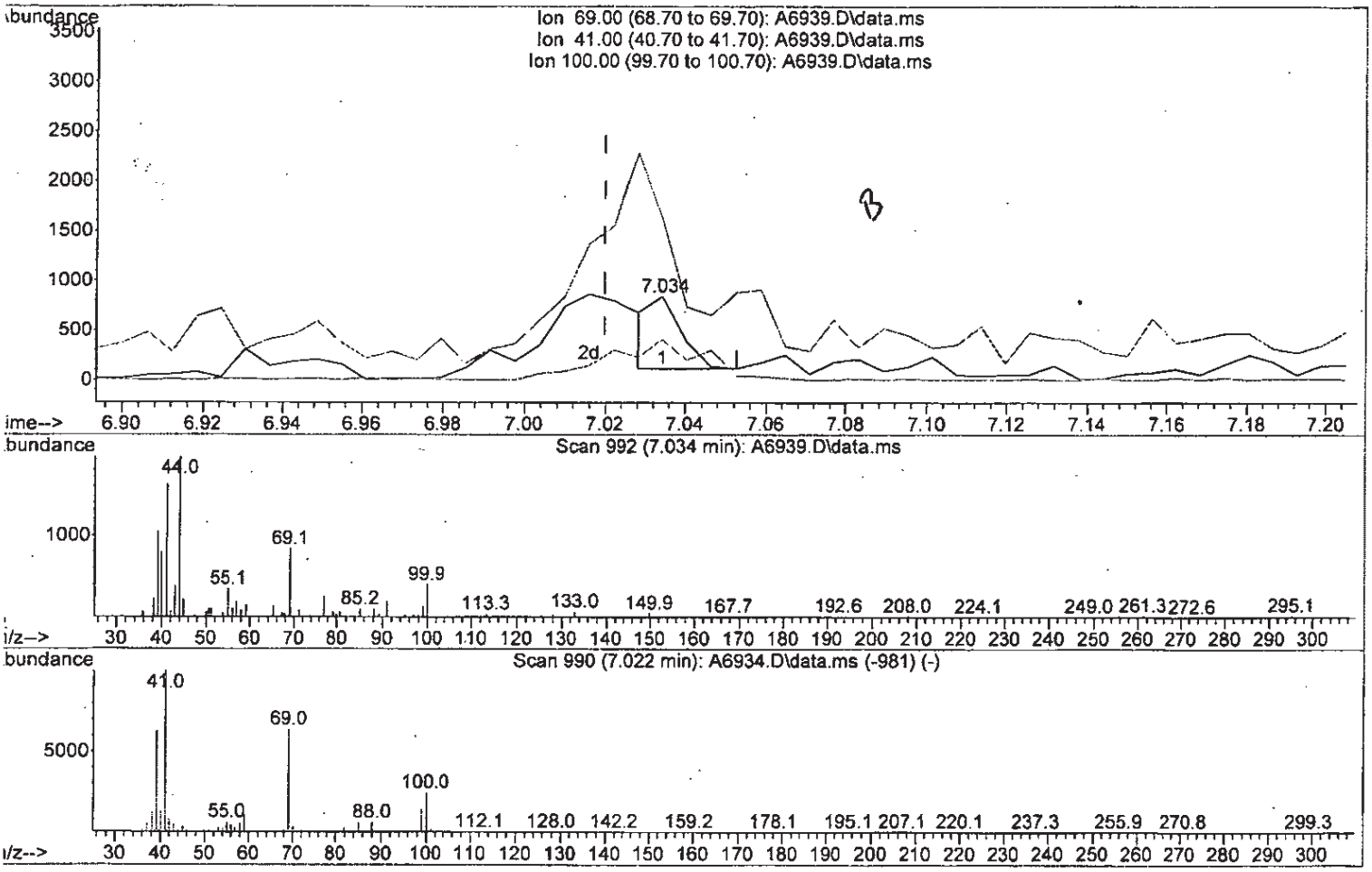
response 3337

Ion	Exp%	Act%
63.00	100	100
65.00	28.00	24.94
0.00	0.00	0.00
0.00	0.00	0.00

00147

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(58) Methyl Methacrylate

7.034min (+0.014) 0.42 ug/L

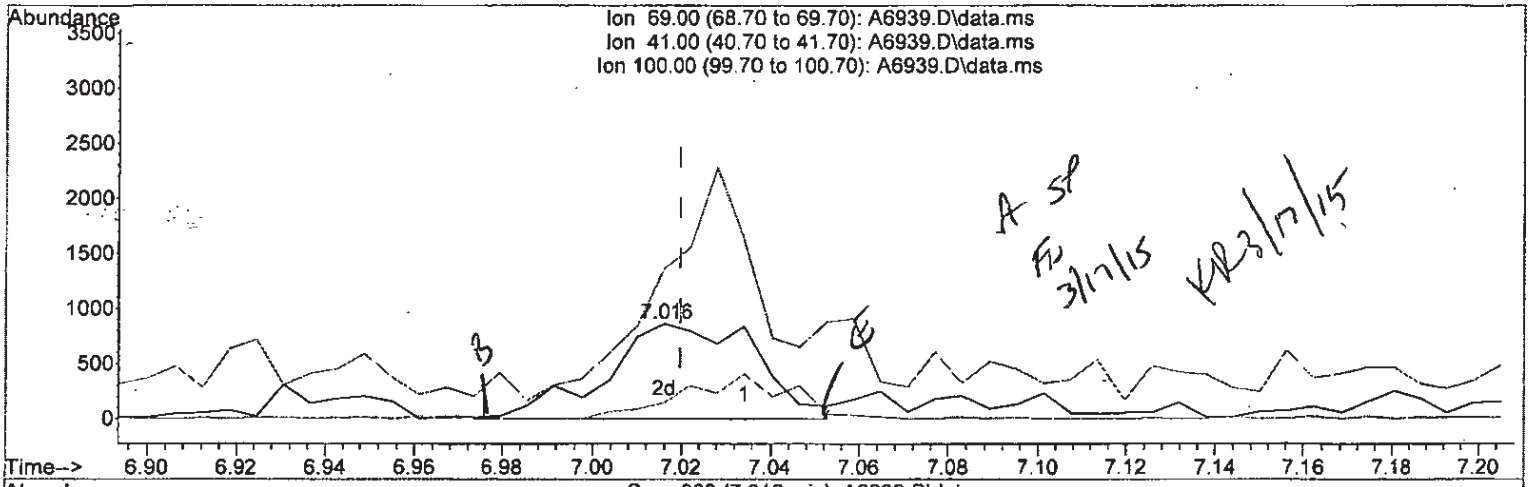
response 366

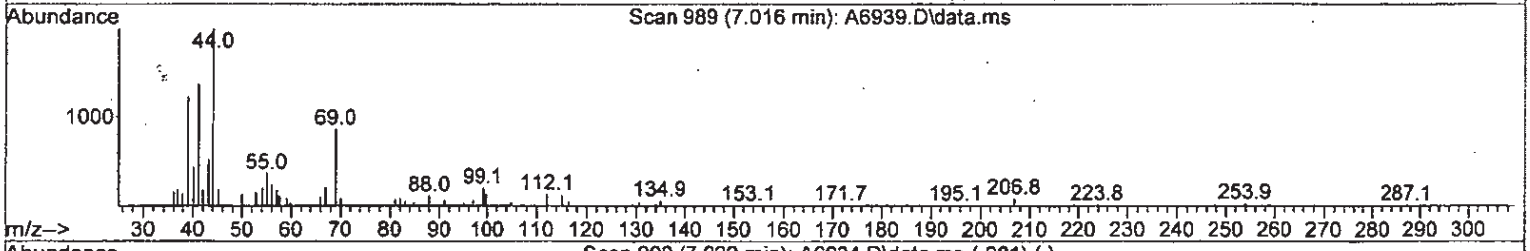
Ion	Exp%	Act%
69.00	100	100
41.00	141.70	193.42#
100.00	37.10	48.33
0.00	0.00	0.00

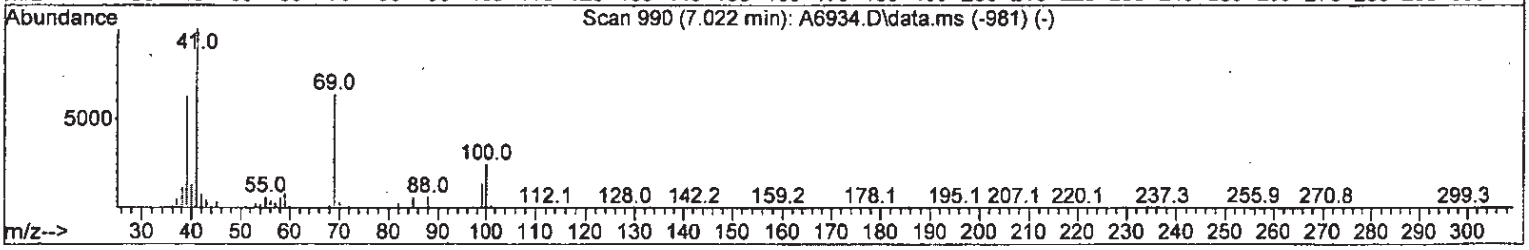
00148

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 11:02:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6939.D\data.ms

(58) Methyl Methacrylate

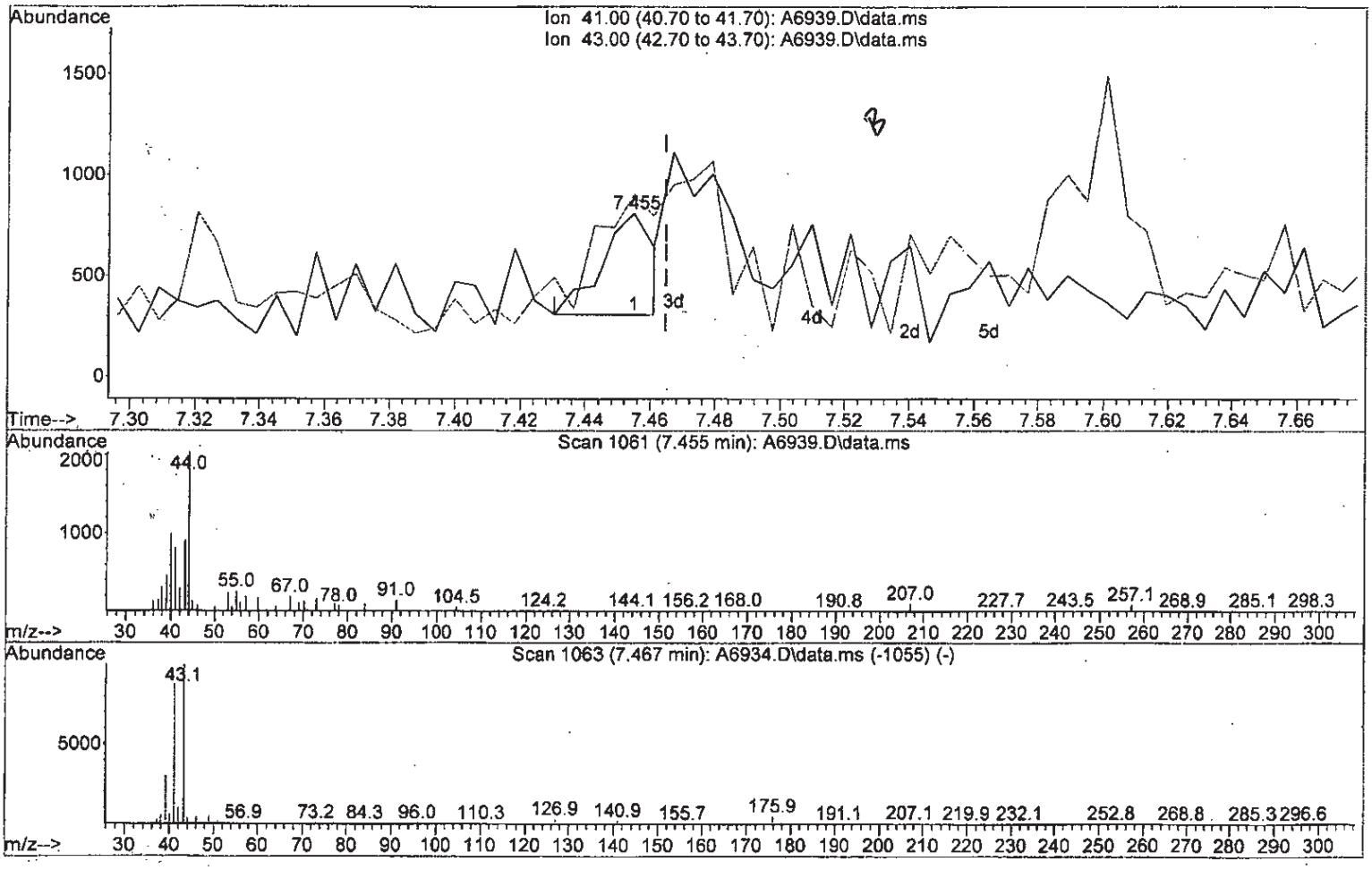
7.016min (-0.004) 1.13 ug/L m

response 2013

Ion	Exp%	Act%
69.00	100	100
41.00	141.70	158.26
100.00	37.10	15.35#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(60) 2-Nitropropane

7.455min (-0.010) 0.54 ug/L

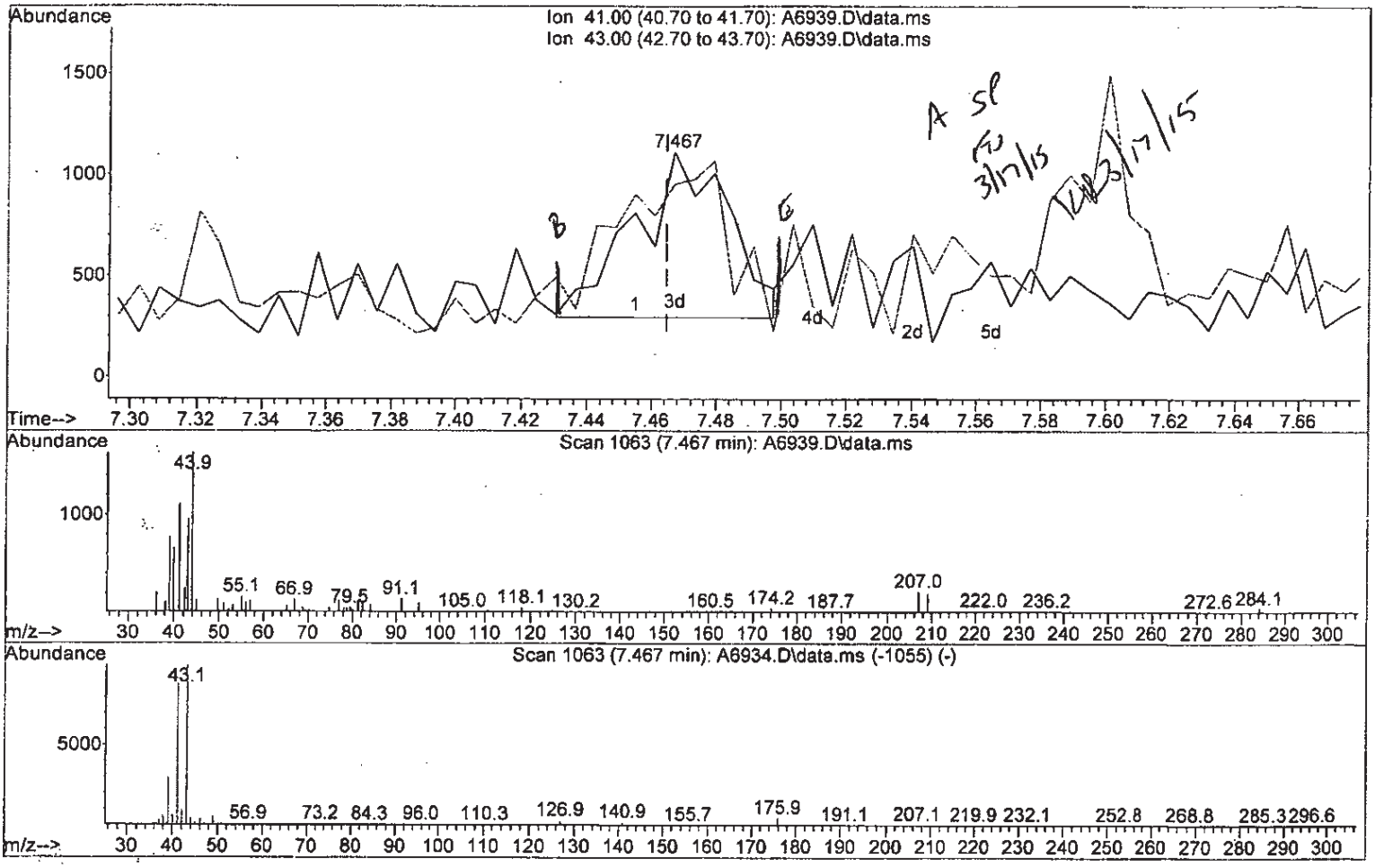
response 552

Ion	Exp%	Act%
41.00	100	100
43.00	111.20	111.26
0.00	0.00	0.00
0.00	0.00	0.00

00150

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(60) 2-Nitropropane

7.467min (+0.002) 1.63 ug/L m

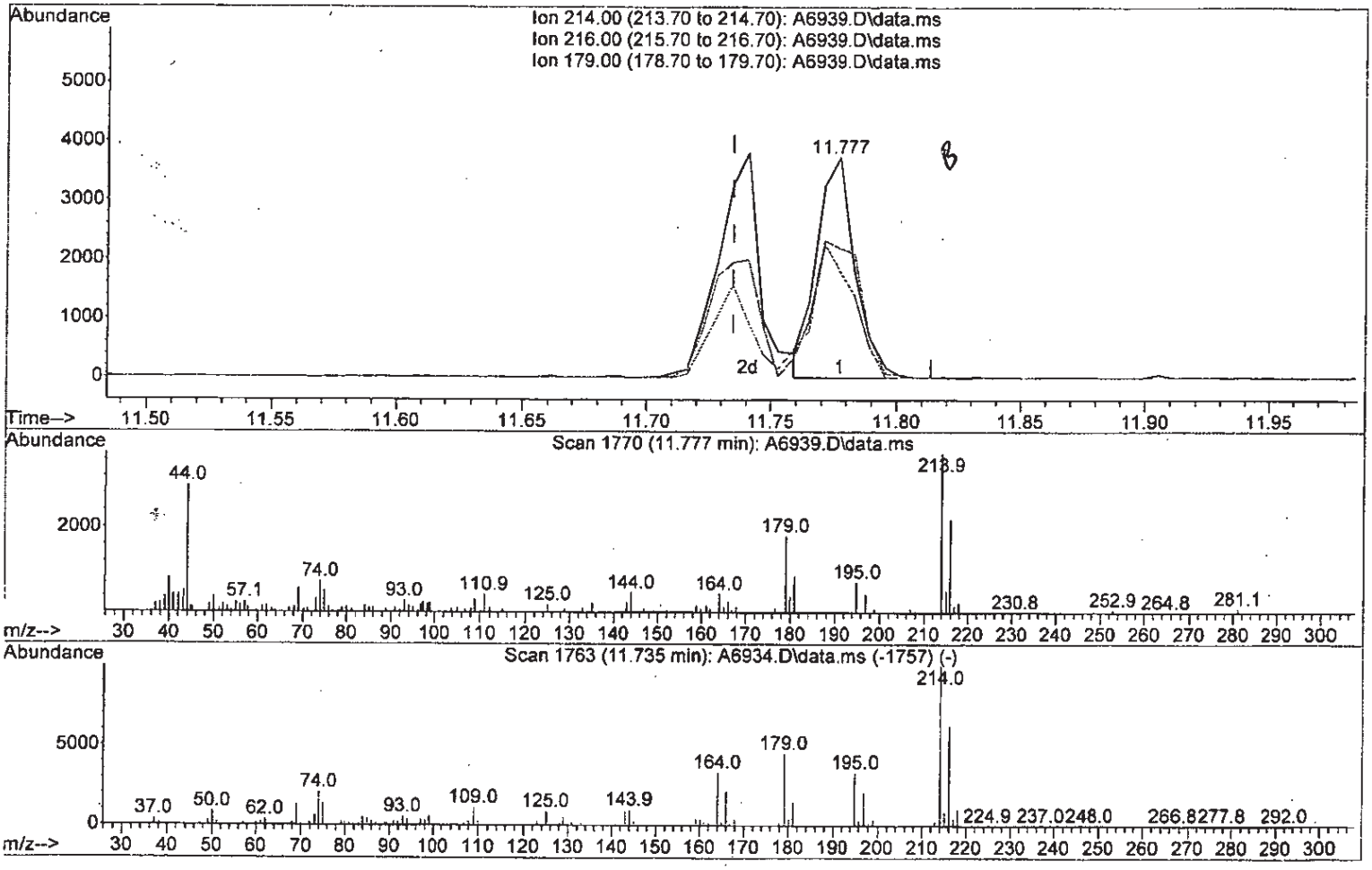
response 1652

Ion	Exp%	Act%
41.00	100	100
43.00	111.20	85.52#
0.00	0.00	0.00
0.00	0.00	0.00

00151

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(106) 2,4-Dichlorobenzotrifluoride

11.777min (+0.042) 0.45 ug/L

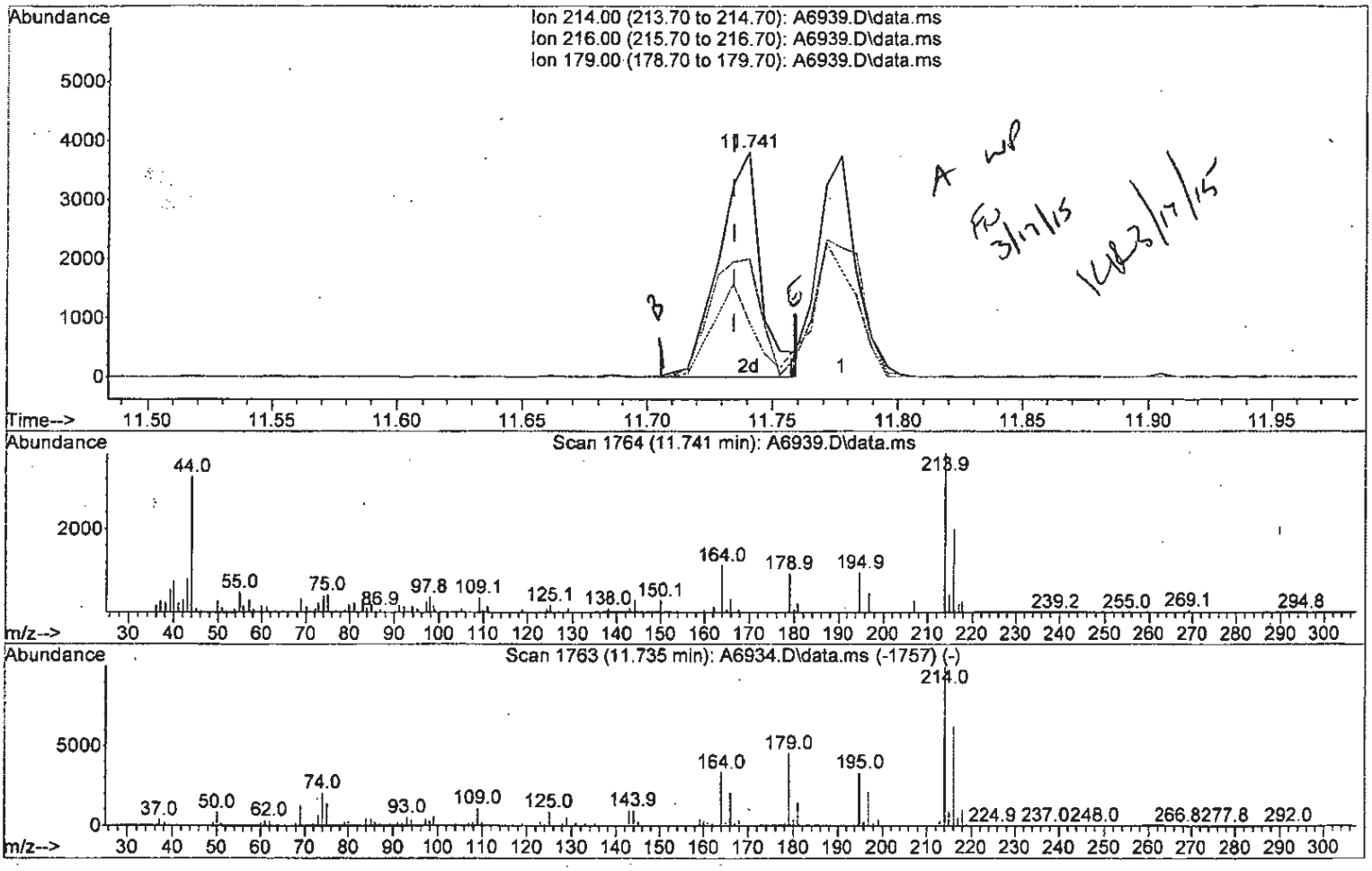
response 3989

Ion	Exp%	Act%
214.00	100	100
216.00	62.70	58.65
179.00	44.90	48.23
0.00	0.00	0.00

00152

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(106) 2,4-Dichlorobenzotrifluoride

11.741min (+0.006) 0.49 ug/L m

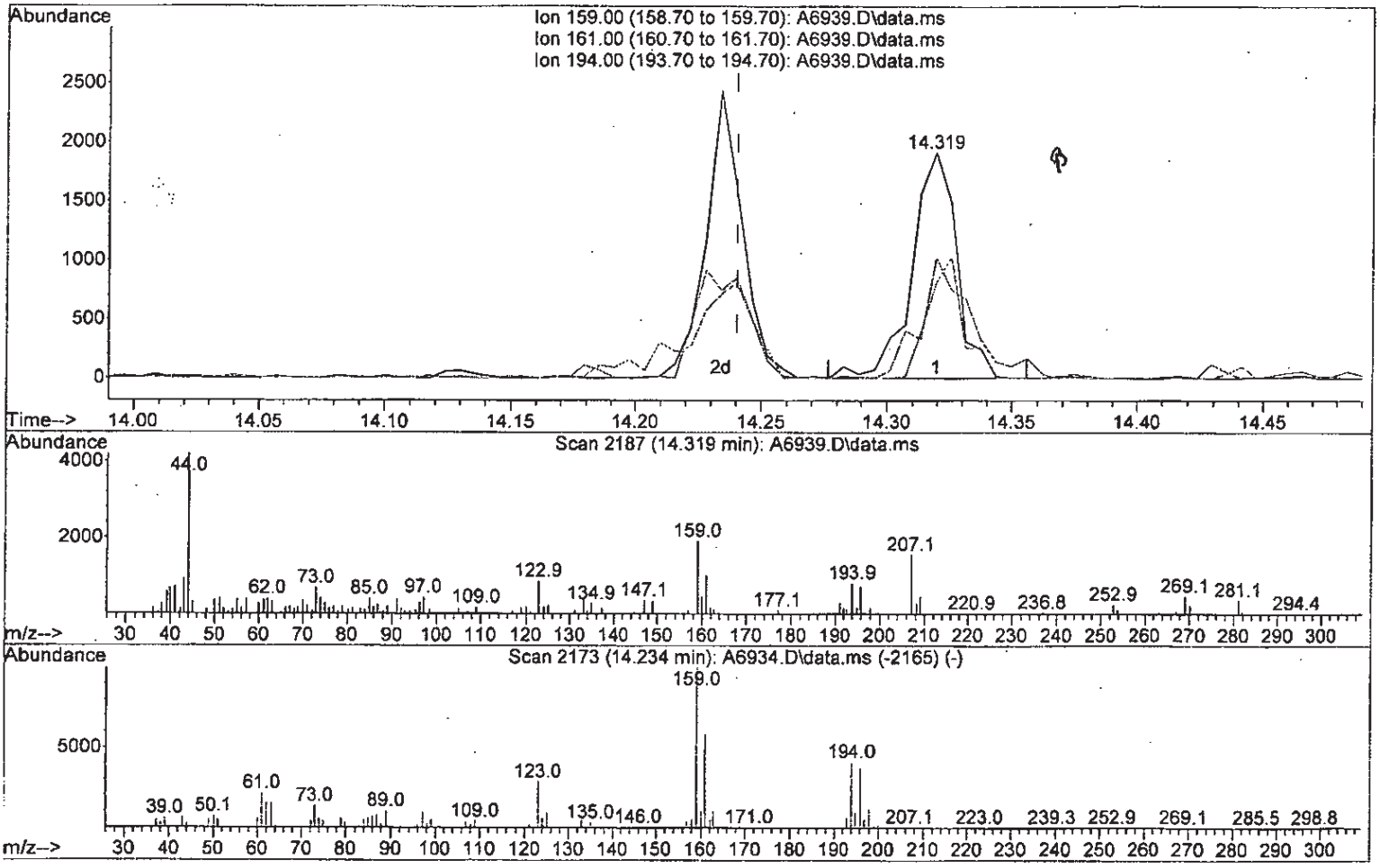
response 4387

Ion	Exp%	Act%
214.00	100	100
216.00	62.70	52.44
179.00	44.90	24.40#
0.00	0.00	0.00

00153

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6939.D\data.ms

(118) 2,4,5-Trichlorotoluene

14.319min (+0.079) 0.35 ug/L

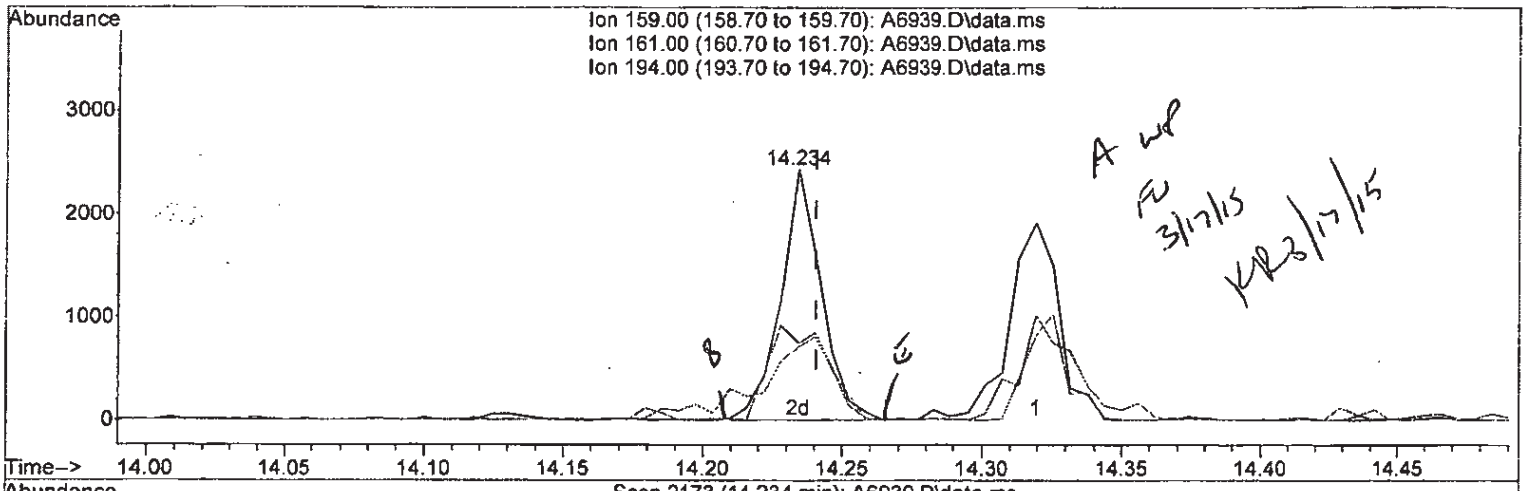
response 2385

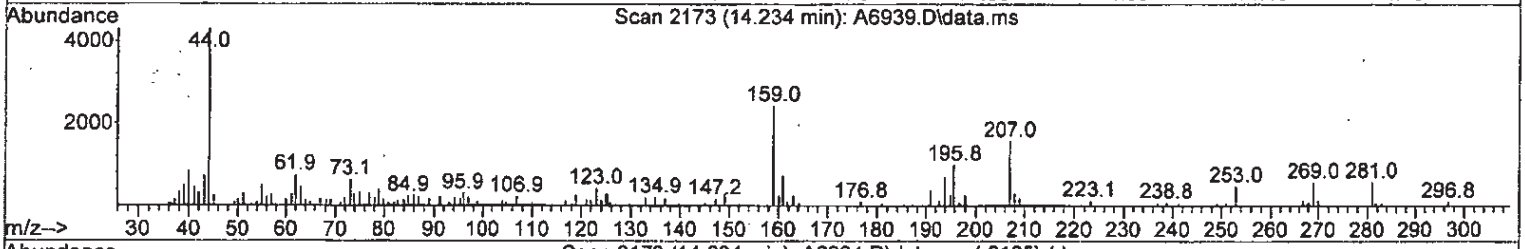
Ion	Exp%	Act%
159.00	100	100
161.00	62.00	53.35
194.00	43.50	42.62
0.00	0.00	0.00

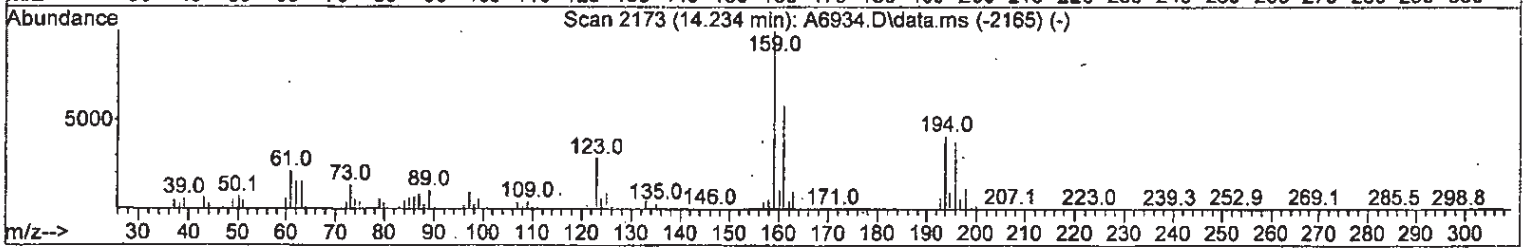
00154

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 16 18:03:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6939.D\data.ms

(118) 2,4,5-Trichlorotoluene

14.234min (-0.006) 0.36 ug/L m

response 2431

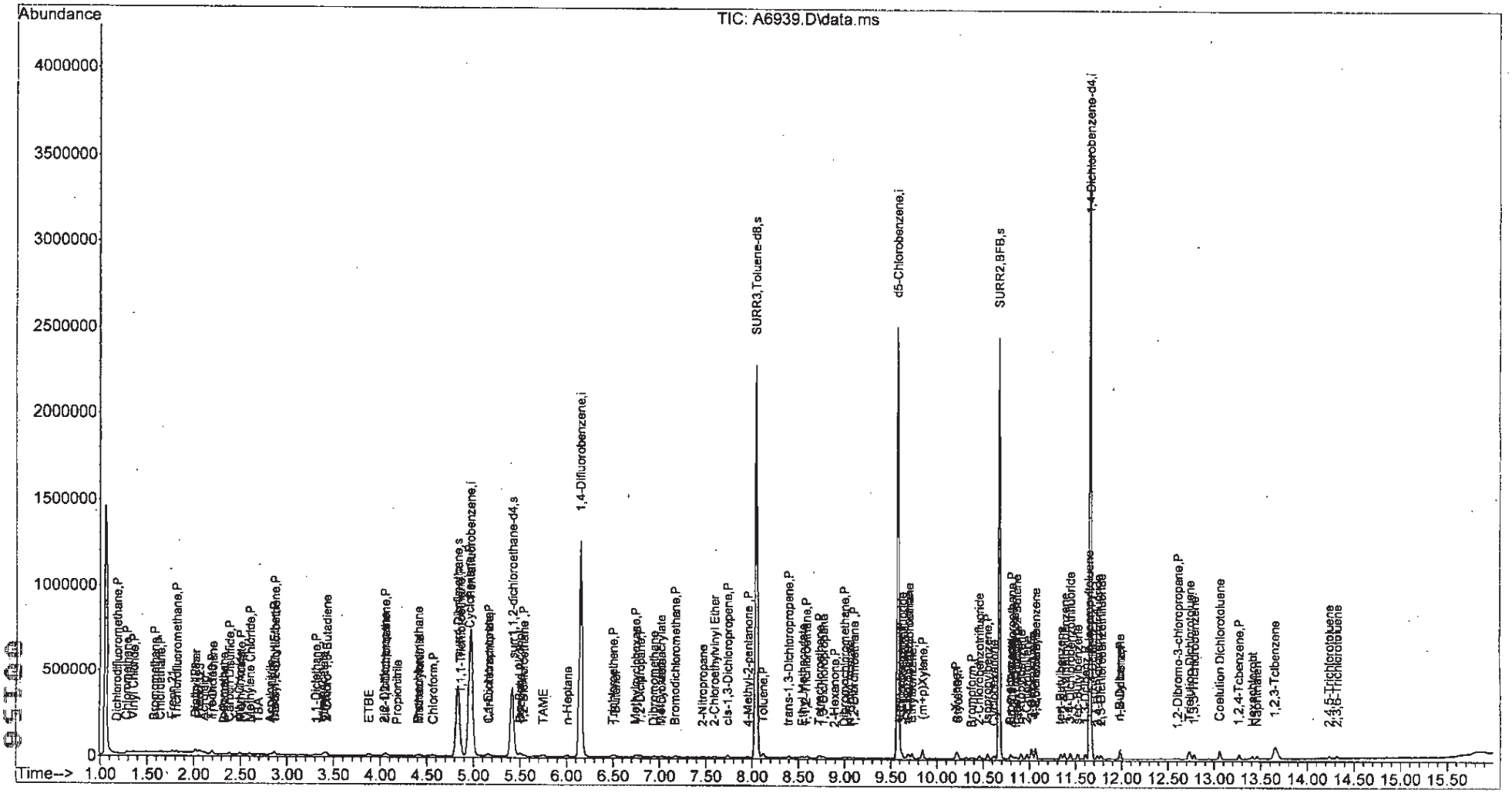
Ion	Exp%	Act%
159.00	100	100
161.00	62.00	30.49#
194.00	43.50	29.21
0.00	0.00	0.00

00153

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6939.D
Acq On : 16 Mar 2015 5:48 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 11:03:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 11:05:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

FD 3/17/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.974	168	795910	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.150	114	1201147	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.576	117	1190104	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.661	152	696719	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	4.834	113	356536	48.92	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 97.84%				
46) surr1,1,2-dichloroetha...	5.413	65	381442	52.00	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 104.00%				
64) SURR3,Toluene-d8	8.046	98	1430000	54.01	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.02%				
69) SURR2,BFB	10.674	95	629631	56.98	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 113.96%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.164	85	7263m	0.96	ug/L		
3) Chloromethane	1.279	50	7900	0.56	ug/L		82
4) Vinyl Chloride	1.353	62	8071m	0.82	ug/L		
5) Bromomethane	1.572	94	2128	0.50	ug/L		94
6) Chloroethane	1.639	64	4866	1.08	ug/L		92
7) Freon 21	1.767	67	12414	1.04	ug/L		94
8) Trichlorofluoromethane	1.816	101	10094	1.08	ug/L		90
9) Diethyl Ether	2.017	59	5395	0.96	ug/L		89
10) Freon 123a	2.017	67	8330	1.12	ug/L		82
11) Freon 123	2.060	83	8876	1.19	ug/L	#	72
12) Acrolein	2.108	56	3338	3.99	ug/L		97
13) 1,1-Diclethene	2.200	96	5637	1.15	ug/L		95
14) Freon 113	2.194	101	6322	1.16	ug/L		92
15) Acetone	2.218	43	2510	1.44	ug/L	#	59
16) 2-Propanol	2.328	45	6559	20.02	ug/L		78
17) Iodomethane	2.316	142	1059	0.35	ug/L	#	64
18) Carbon Disulfide	2.377	76	20934	1.20	ug/L		95
19) Acetonitrile	2.456	40	954	3.56	ug/L	#	74
20) Allyl Chloride	2.493	76	3146	1.00	ug/L	#	72
21) Methyl Acetate	2.505	43	4761	0.98	ug/L		91
22) Methylene Chloride	2.596	84	6163	1.12	ug/L	#	72
23) TBA	2.694	59	8785	21.78	ug/L	#	52
24) Acrylonitrile	2.822	53	9047	4.28	ug/L		95
25) Methyl-t-Butyl Ether	2.864	73	16010	1.24	ug/L		87
26) trans-1,2-Dichloroethene	2.864	96	6665	1.23	ug/L		90
27) 1,1-Diclethane	3.309	63	12204	0.93	ug/L		84
28) Vinyl Acetate	3.377	86	1187m	1.50	ug/L		
29) DIPE	3.401	45	26050	0.77	ug/L		81
30) 2-Chloro-1,3-Butadiene	3.425	53	13646	0.87	ug/L		95
31) ETBE	3.876	59	21310	0.95	ug/L		93
32) 2,2-Dichloropropane	4.053	77	9930	1.25	ug/L		92
33) cis-1,2-Dichloroethene	4.053	96	7994	1.20	ug/L	#	73
34) 2-Butanone	4.102	43	3025	1.11	ug/L		88
35) Propionitrile	4.175	54	2763	5.31	ug/L		66

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 11:05:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.413	130	3650m	0.87 ug/L	
37) Methacrylonitrile	4.407	67	2307	1.44 ug/L #	52
39) Chloroform	4.559	83	11386	1.05 ug/L	92
40) 1,1,1-Trichloroethane	4.852	97	10891	1.20 ug/L	77
42) Cyclohexane	4.943	41	8971	0.86 ug/L	87
44) Carbontetrachloride	5.157	121	2959	1.17 ug/L #	69
45) 1,1-Dichloropropene	5.169	75	8752	0.98 ug/L	98
47) Benzene	5.504	78	27227	1.04 ug/L	96
48) 1,2-Dichloroethane	5.541	62	9529	1.03 ug/L	93
49) Iso-Butyl Alcohol	5.480	43	4451	19.91 ug/L	91
50) TAME	5.748	73	16815	1.16 ug/L	73
51) n-Heptane	6.004	43	9440	0.78 ug/L	85
52) 1-Butanol	6.522	56	7688m	125.97 ug/L	
53) Trichloroethene	6.504	130	7150	0.96 ug/L	91
54) Methylcyclohexane	6.748	55	9368	0.80 ug/L	83
55) 1,2-Diclpropane	6.790	63	6397	0.78 ug/L	98
56) Dibromomethane	6.943	93	3427	0.97 ug/L	92
57) 1,4-Dioxane	7.028	88	650	16.22 ug/L	85
58) Methyl Methacrylate	7.022	69	3093	1.54 ug/L #	52
59) Bromodichloromethane	7.175	83	8525	1.04 ug/L	90
60) 2-Nitropropane	7.455	41	2761	2.63 ug/L	84
61) 2-Chloroethylvinyl Ether	7.595	63	2736	0.73 ug/L	93
62) cis-1,3-Dichloropropene	7.735	75	10656	1.13 ug/L	96
63) 4-Methyl-2-pentanone	7.949	43	5988	0.97 ug/L	89
65) Toluene	8.119	91	28981	1.04 ug/L	96
66) trans-1,3-Dichloropropene	8.394	75	9134	1.44 ug/L	95
67) Ethyl Methacrylate	8.540	69	6902	1.49 ug/L	91
68) 1,1,2-Trichloroethane	8.589	97	5335	1.10 ug/L	94
71) Tetrachloroethene	8.723	164	5928	0.94 ug/L #	77
72) 2-Hexanone	8.900	43	4576	1.02 ug/L	79
73) 1,3-Dichloropropane	8.766	76	7942	0.93 ug/L	86
74) Dibromochloromethane	9.003	129	6813	1.09 ug/L	83
75) N-Butyl Acetate	9.052	43	9289	0.84 ug/L	96
76) 1,2-Dibromoethane	9.101	107	5217	1.06 ug/L	89
77) 3-Chlorobenzotrifluoride	9.625	180	10759	0.85 ug/L	96
78) Chlorobenzene	9.607	112	20078	0.97 ug/L	92
79) 4-Chlorobenzotrifluoride	9.680	180	10660	0.91 ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.692	131	7436	1.06 ug/L	91
81) Ethylbenzene	9.729	106	9639	0.91 ug/L	98
82) (m+p)Xylene	9.845	106	25622	2.06 ug/L	99
83) o-Xylene	10.204	106	12407	0.99 ug/L	91
84) Styrene	10.223	104	21634	1.04 ug/L	85
85) Bromoform	10.375	173	3641	1.19 ug/L	87
86) 2-Chlorobenzotrifluoride	10.454	180	10077	0.79 ug/L	94
87) Isopropylbenzene	10.546	105	29426	0.95 ug/L	95
88) Cyclohexanone	10.613	55	10066	22.88 ug/L	85
89) trans-1,4-Dichloro-2-B...	10.863	53	1908	0.87 ug/L	84
91) 1,1,2,2-Tetrachloroethane	10.814	83	5913	0.94 ug/L	93
92) Bromobenzene	10.796	156	8592	0.93 ug/L	92
93) 1,2,3-Trichloropropane	10.838	110	2054	1.26 ug/L #	68
94) n-Propylbenzene	10.912	91	37423	1.03 ug/L	95

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

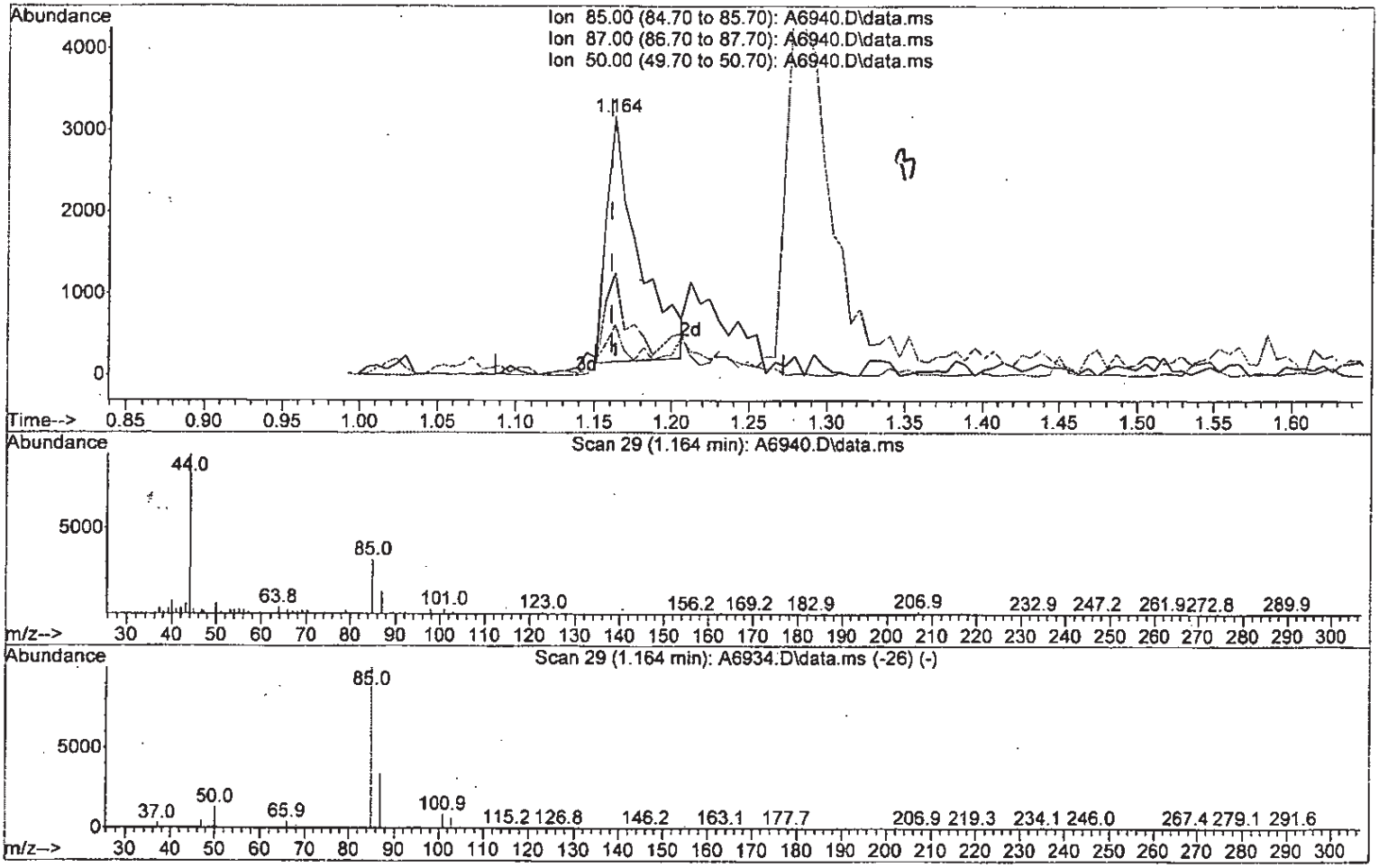
Quant Time: Mar 17 11:05:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
95)	2-Chlorotoluene	10.973	91	22667	1.01	ug/L		93
96)	3-Chlorotoluene	11.027	91	24557	1.01	ug/L		97
97)	4-Chlorotoluene	11.064	91	27927	1.03	ug/L		94
98)	1,3,5-Trimethylbenzene	11.064	105	26607	1.00	ug/L		97
99)	tert-Butylbenzene	11.338	119	23079	1.02	ug/L		99
100)	1,2,4-Trimethylbenzene	11.381	105	27288	1.02	ug/L		92
101)	3,4-Dichlorobenzotrifl...	11.442	214	8819	0.88	ug/L		94
102)	sec-Butylbenzene	11.521	105	32290	1.02	ug/L		98
103)	p-Isopropyltoluene	11.649	119	28223	1.02	ug/L		95
104)	1,3-Dclbenz	11.607	146	16575	0.90	ug/L		92
105)	1,4-Dclbenz	11.680	146	18884	1.00	ug/L		94
106)	2,4-Dichlorobenzotrifl...	11.735	214	7552	0.85	ug/L		84
107)	2,5-Dichlorobenzotrifl...	11.777	214	9135	0.87	ug/L		90
108)	n-Butylbenzene	11.978	91	25138	1.05	ug/L		97
109)	1,2-Dclbenz	11.985	146	15666	0.94	ug/L		96
110)	1,2-Dibromo-3-chloropr...	12.613	157	1206	1.09	ug/L	#	78
111)	Trielution Dichlorotol...	12.728	125	41583	2.81	ug/L		97
112)	1,3,5-Trichlorobenzene	12.783	180	11849	0.85	ug/L		91
113)	Coelution Dichlorotoluene	13.058	125	28950	1.89	ug/L		96
114)	1,2,4-Tcbenzene	13.271	180	9763	0.85	ug/L		95
115)	Hexachlorobt	13.411	225	4738	0.88	ug/L		80
116)	Naphthalen	13.460	128	16650	0.93	ug/L		94
117)	1,2,3-Tclbenzene	13.649	180	7425	0.80	ug/L		97
118)	2,4,5-Trichlorotoluene	14.234	159	5040	0.74	ug/L		91
119)	2,3,6-Trichlorotoluene	14.326	159	4168	0.59	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 18:32:52 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6940.D\data.ms

(2) Dichlorodifluoromethane (P)

1.164min (+0.002) 0.58 ug/L

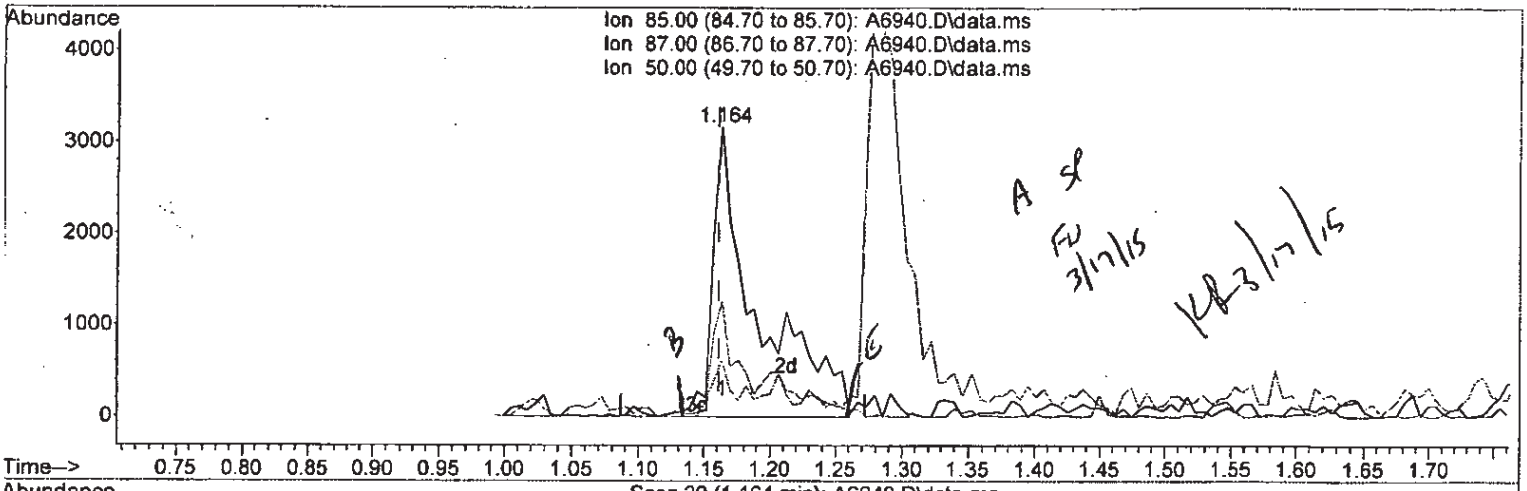
response 4384

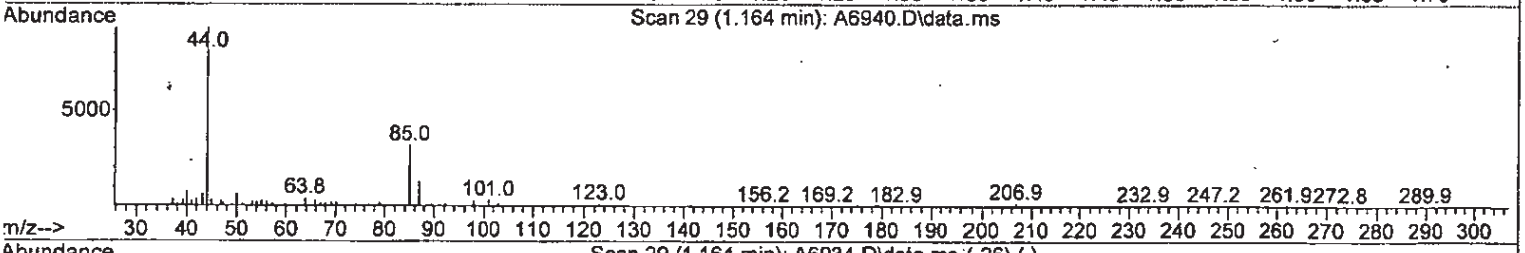
Ion	Exp%	Act%
85.00	100	100
87.00	31.50	39.66
50.00	15.00	19.45
0.00	0.00	0.00

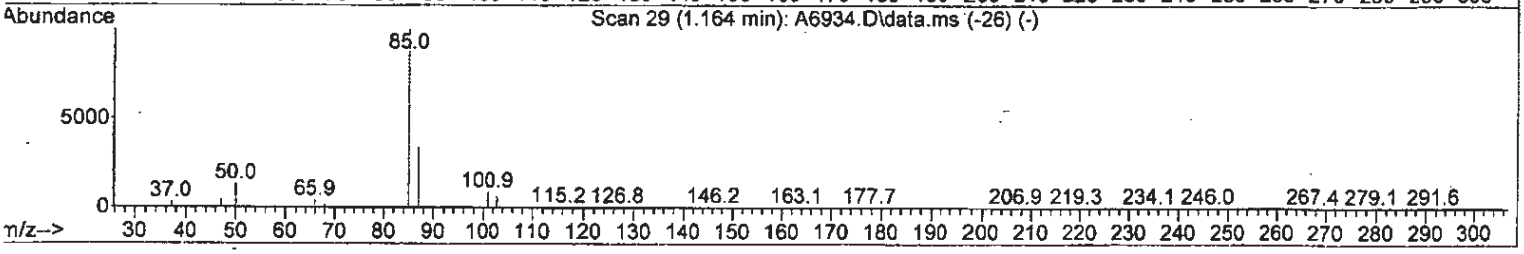
00160

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 18:32:52 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6940.D\data.ms

(2) Dichlorodifluoromethane (P)

1.164min (+0.002) 0.96 ug/L m

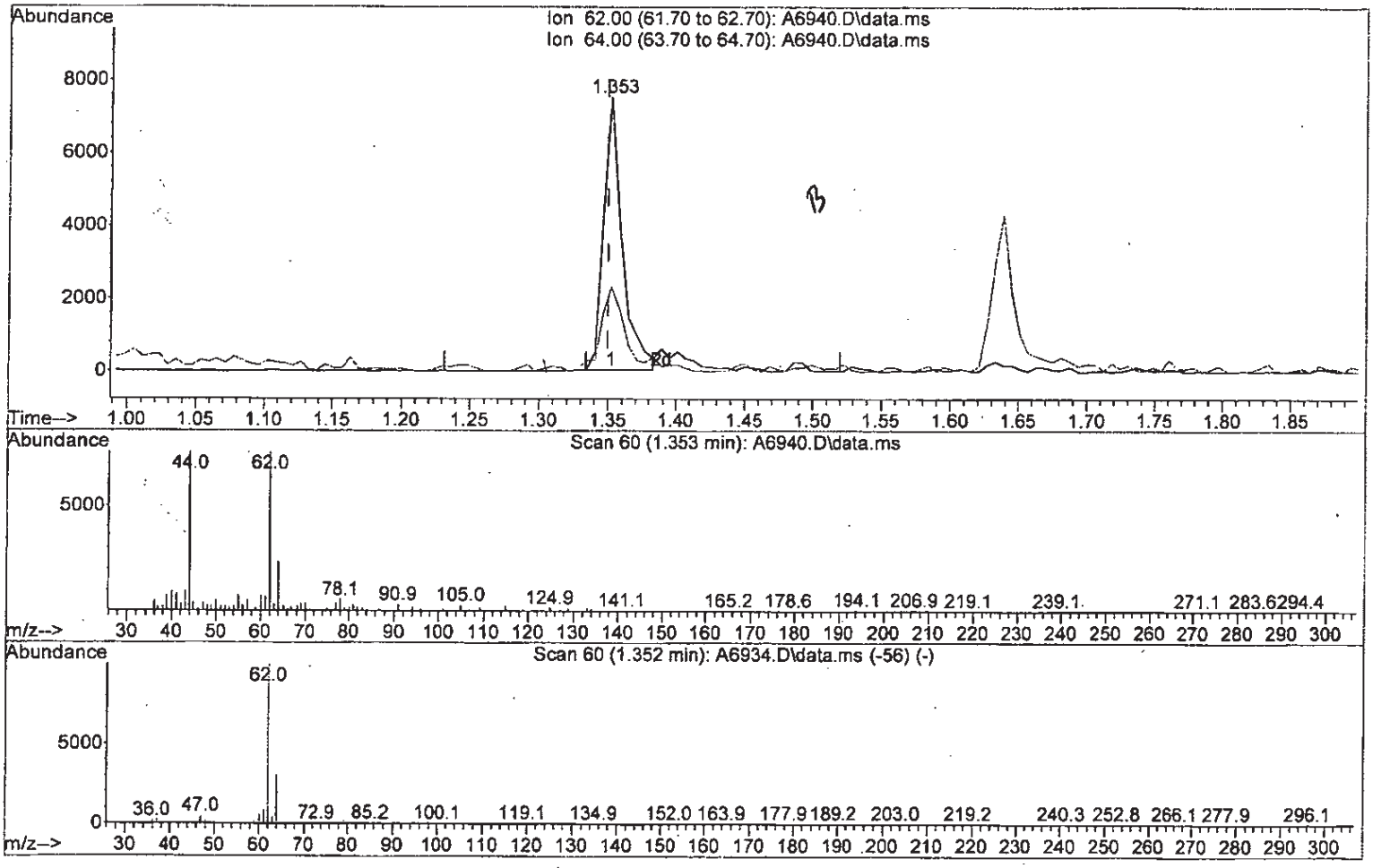
response 7263

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	39.66
50.00	15.00	19.45
0.00	0.00	0.00

00162

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 10:30:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6940.D\data.ms

(4) Vinyl Chloride (P)

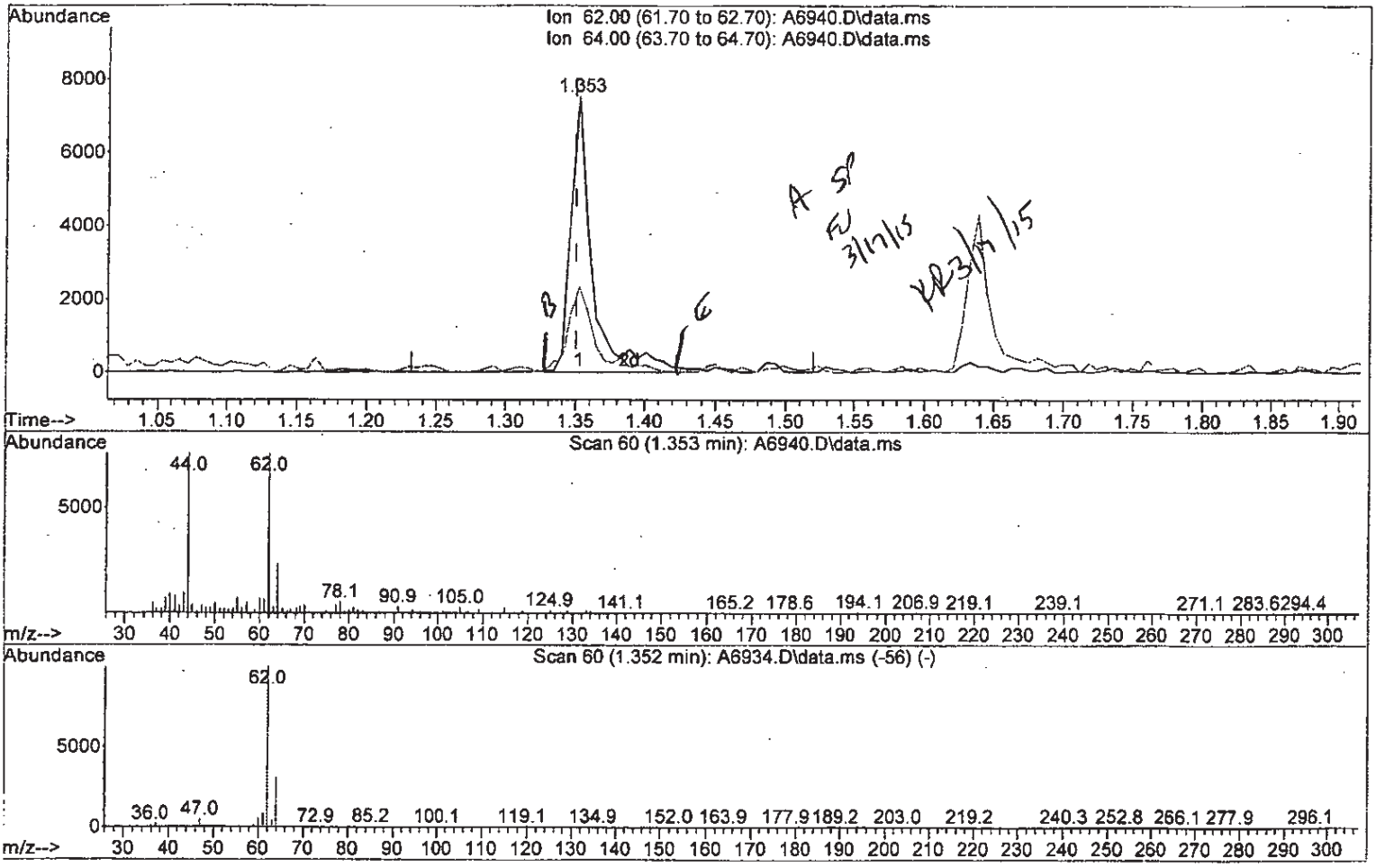
1.353min (+0.002) 0.72 ug/L

response 7023

Ion	Exp%	Act%
62.00	100	100
64.00	31.70	30.80
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 10:30:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6940.D\data.ms

(4) Vinyl Chloride (P)

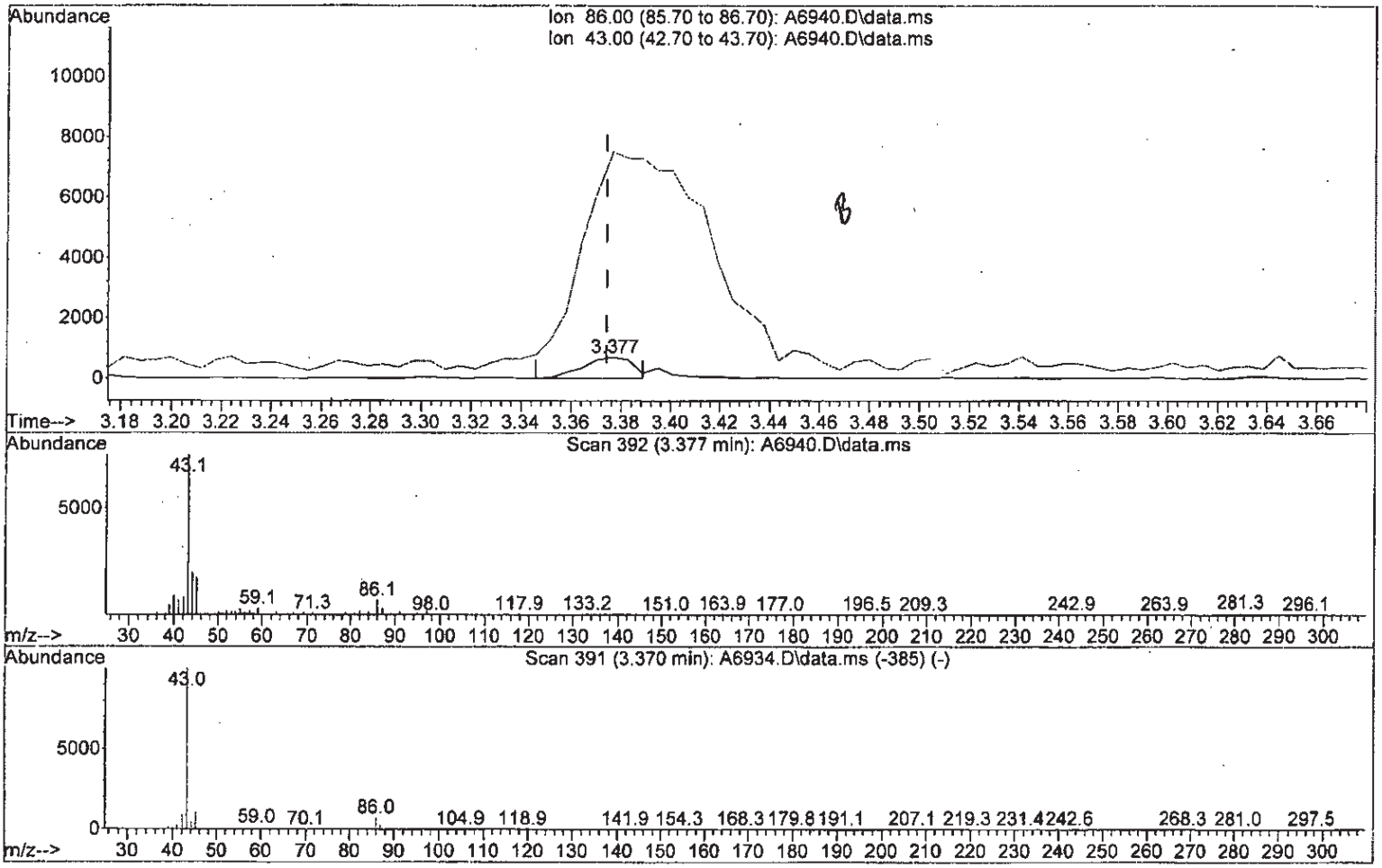
1.353min (+0.002) 0.82 ug/L m

response 8071

Ion	Exp%	Act%
62.00	100	100
64.00	31.70	30.80
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 18:32:52 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6940.D\data.ms

(28) Vinyl Acetate

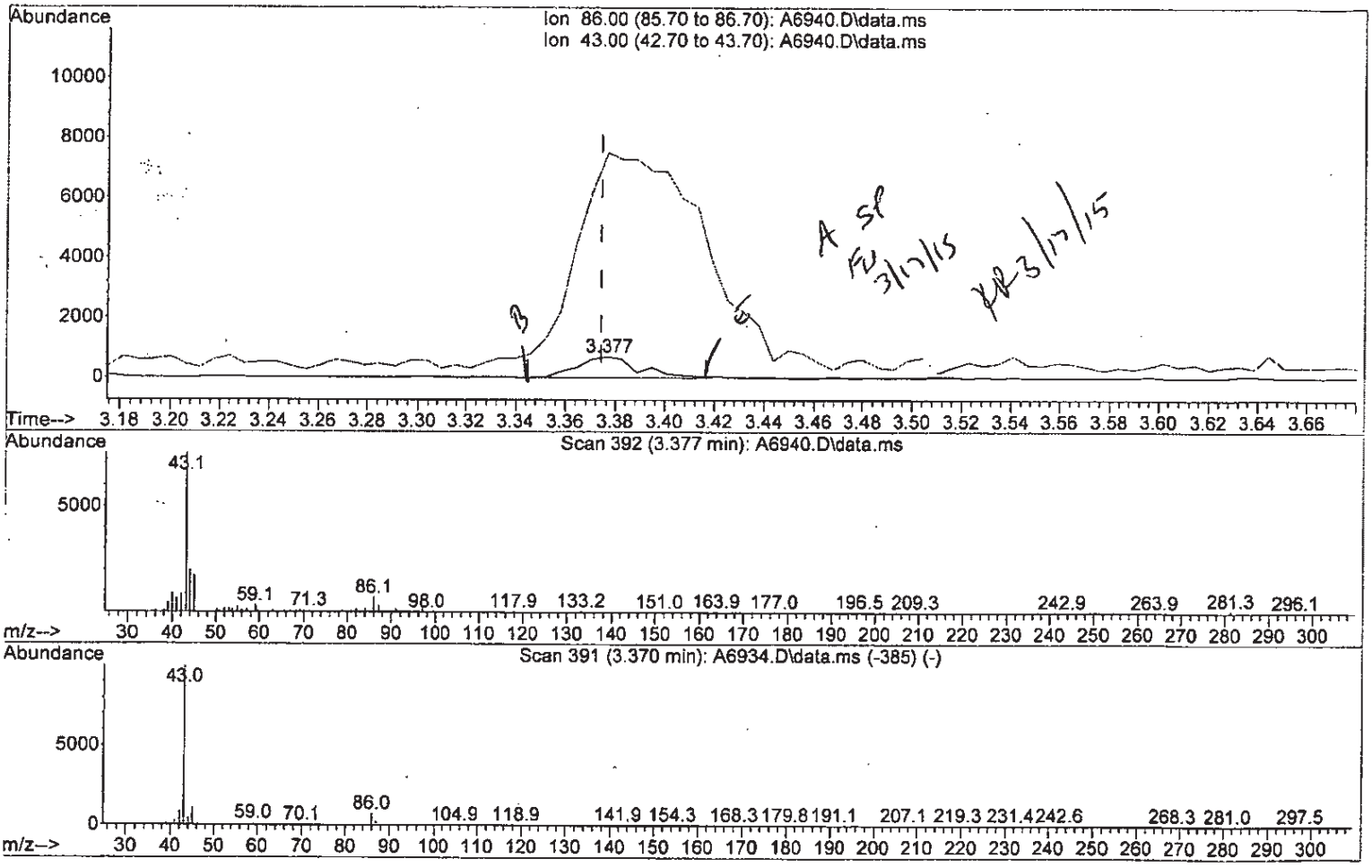
3.377min (+0.002) 1.21 ug/L

response 956

Ion	Exp%	Act%
86.00	100	100
43.00	1730.10	1086.50#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 18:32:52 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6940.D\data.ms

(28) Vinyl Acetate

3.377min (+0.002) 1.50 ug/L m

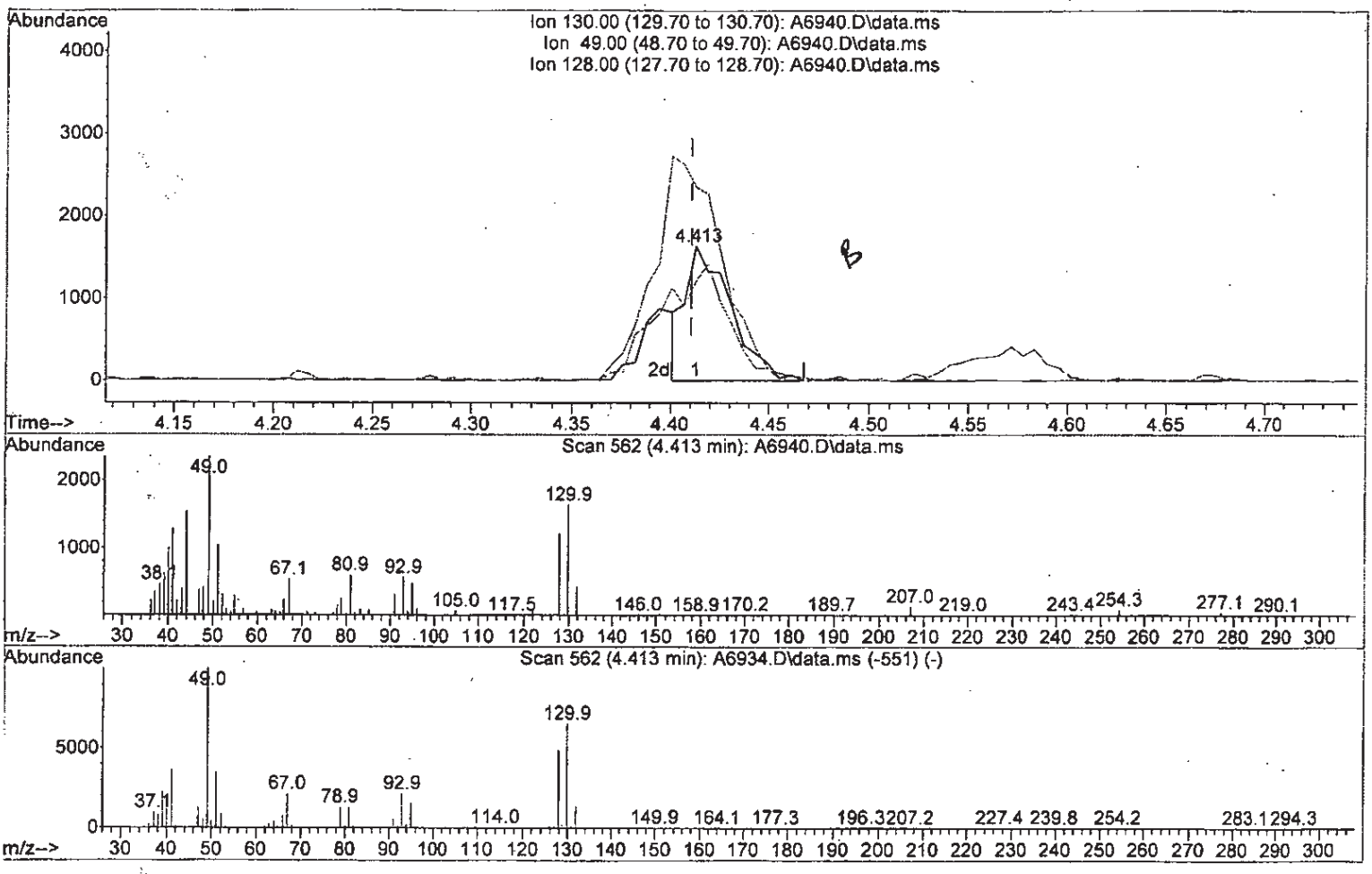
response 1187

Ion	Exp%	Act%
86.00	100	100
43.00	1730.10	1086.50#
0.00	0.00	0.00
0.00	0.00	0.00

00165

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 18:32:52 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6940.D\data.ms

(36) Bromochloromethane

4.413min (+0.002) 0.62 ug/L

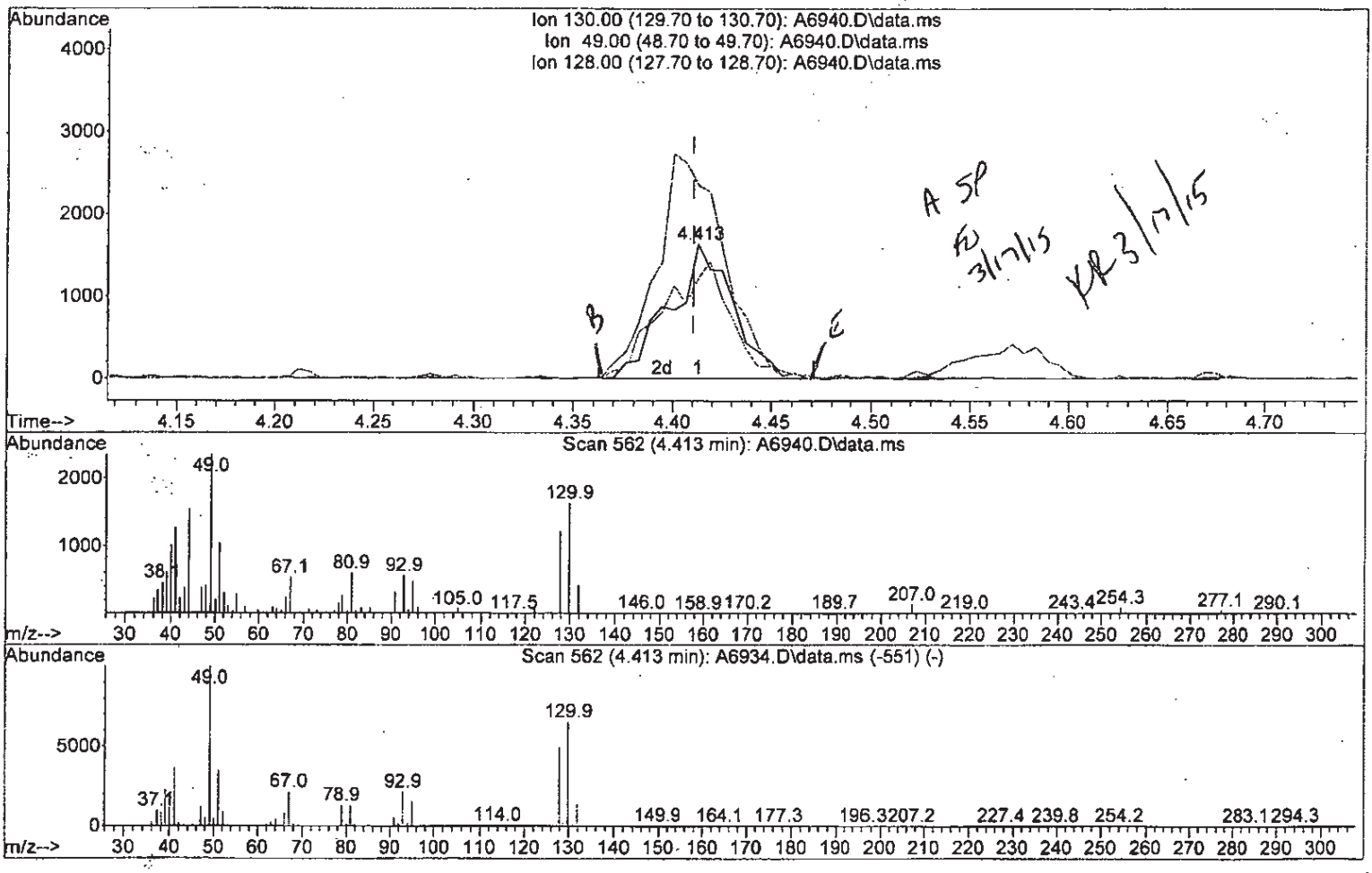
response 2616

Ion	Exp%	Act%
130.00	100	100
49.00	133.80	143.87
128.00	75.20	74.26
0.00	0.00	0.00

00168

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 18:32:52 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6940.D\data.ms

(36) Bromochloromethane

4.413min (+0.002) 0.87 ug/L m

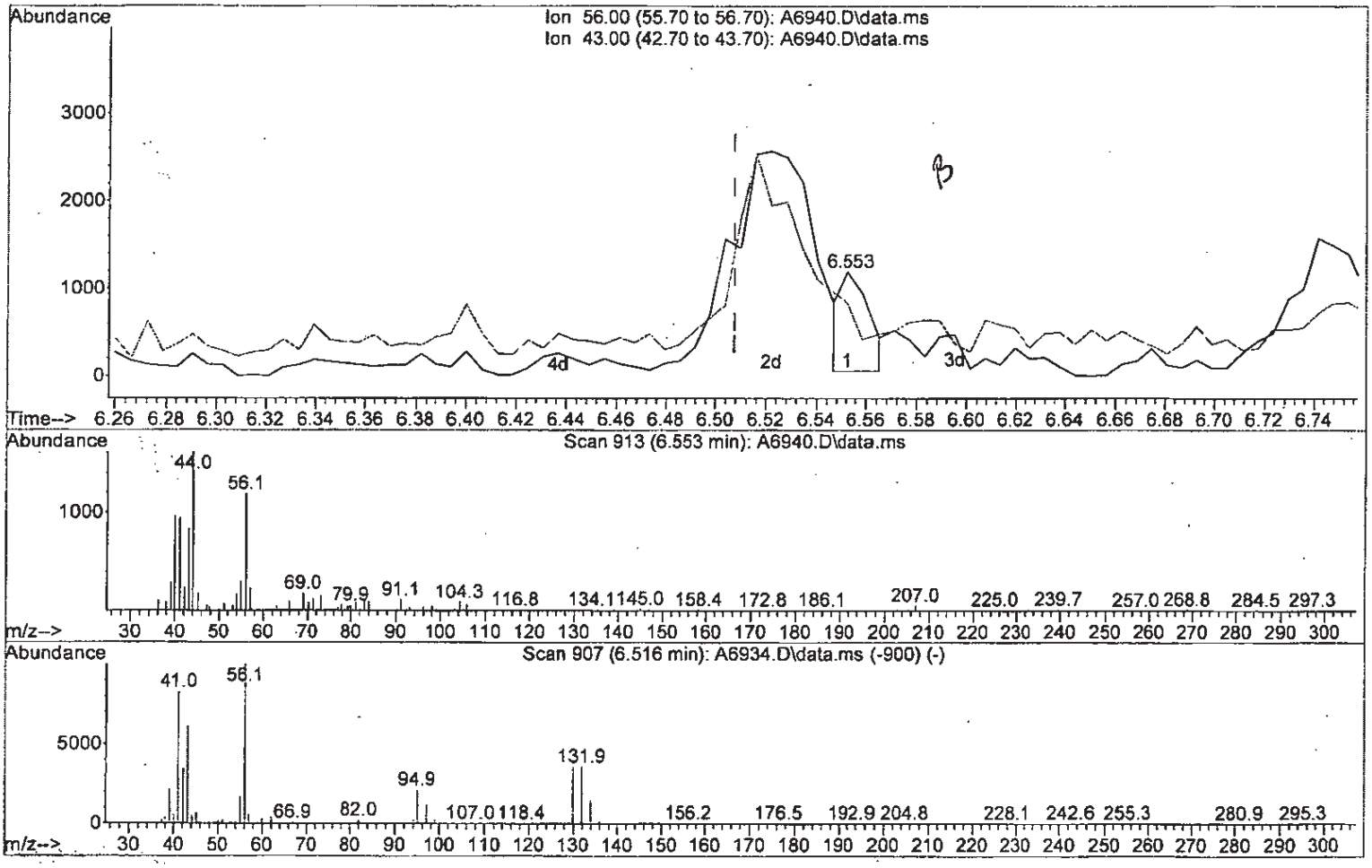
response 3650

Ion	Exp%	Act%
130.00	100	100
49.00	133.80	143.87
128.00	75.20	74.26
0.00	0.00	0.00

00167

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 18:32:52 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6940.D\data.ms

(52) 1-Butanol

6.553min (+0.045) 40.53 ug/L

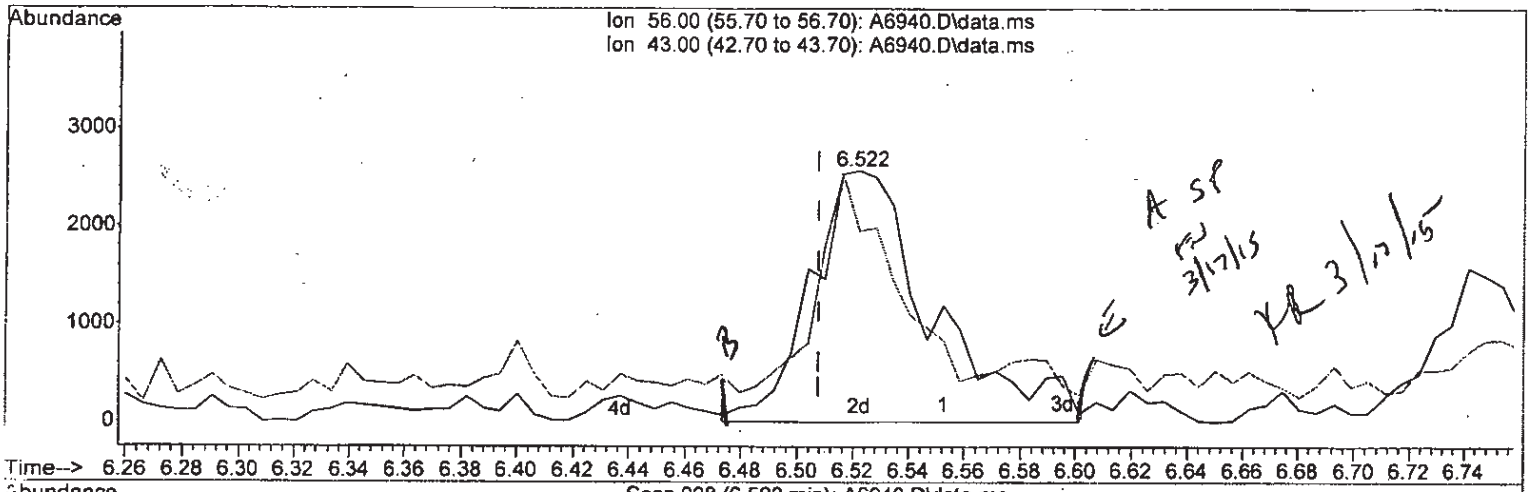
response 879

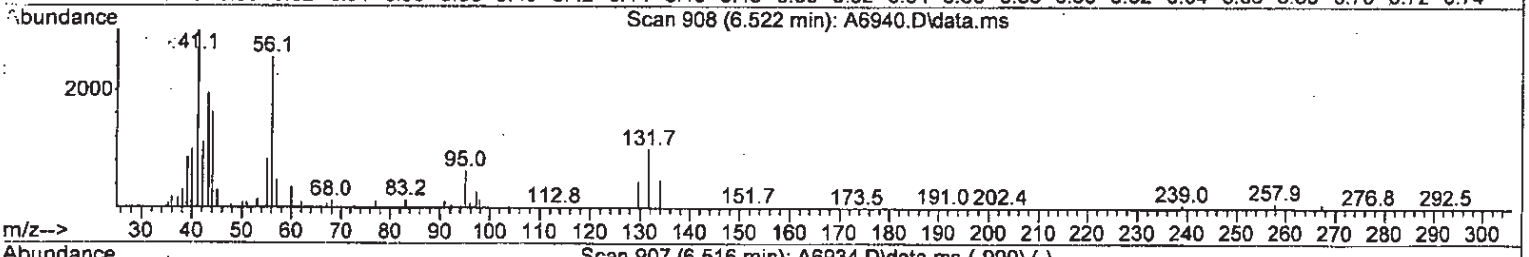
Ion	Exp%	Act%
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43.00	54.10	70.43
0.00	0.00	0.00
0.00	0.00	0.00

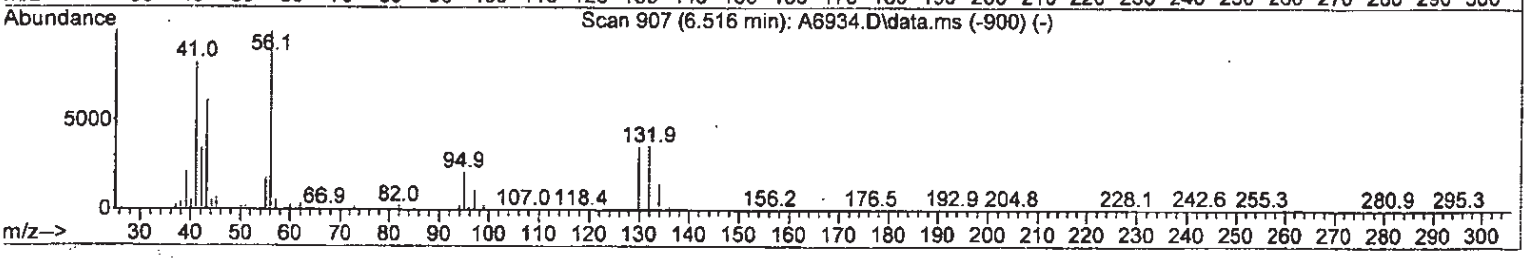
00168

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 18:32:52 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6940.D\data.ms

(52) 1-Butanol

6.522min (+0.015) 125.97 ug/L m

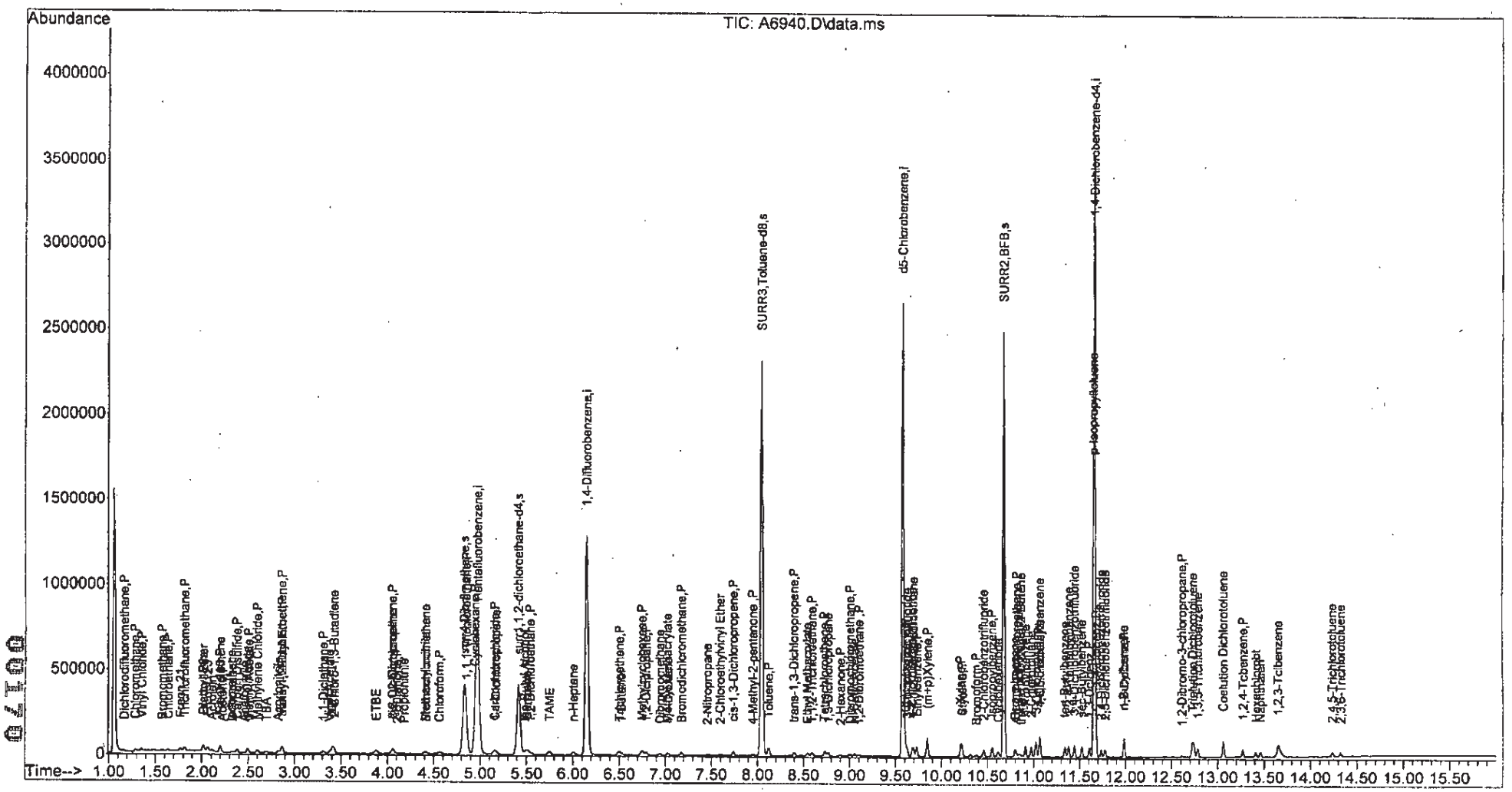
response 7688

Ion	Exp%	Act%
56.00	100	100
43.00	54.10	75.89#
0.00	0.00	0.00
0.00	0.00	0.00

00169

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6940.D
Acq On : 16 Mar 2015 6:17 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 11:05:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 11:25:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

FV 3/17/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.968	168	831339	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.150	114	1236107	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.577	117	1215259	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.662	152	703443	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	4.834	113	371811	49.57	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.14%				
46) surr1,1,2-dichloroetha...	5.413	65	388649	51.48	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 102.96%				
64) SURR3,Toluene-d8	8.046	98	1468158	53.88	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.76%				
69) SURR2,BFB	10.674	95	631813	55.56	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 111.12%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.164	85	14116m	1.79	ug/L		
3) Chloromethane	1.279	50	18950	1.28	ug/L		99
4) Vinyl Chloride	1.353	62	17805	1.74	ug/L		97
5) Bromomethane	1.572	94	4974m	1.12	ug/L		
6) Chloroethane	1.639	64	10956	2.32	ug/L		92
7) Freon 21	1.761	67	29955	2.39	ug/L		97
8) Trichlorofluoromethane	1.810	101	22412	2.29	ug/L		90
9) Diethyl Ether	2.017	59	12528	2.12	ug/L		98
10) Freon 123a	2.017	67	17656	2.27	ug/L		94
11) Freon 123	2.060	83	20733m	2.66	ug/L		
12) Acrolein	2.108	56	8511	9.73	ug/L		97
13) 1,1-Diclethene	2.200	96	12834	2.51	ug/L	#	79
14) Freon 113	2.194	101	13579	2.38	ug/L		86
15) Acetone	2.224	43	5097	2.81	ug/L		95
16) 2-Propanol	2.334	45	12500	36.54	ug/L		87
17) Iodomethane	2.322	142	2519	0.54	ug/L	#	64
18) Carbon Disulfide	2.377	76	46335	2.54	ug/L		98
19) Acetonitrile	2.450	40	2778	9.92	ug/L	#	55
20) Allyl Chloride	2.493	76	7731	2.35	ug/L	#	55
21) Methyl Acetate	2.505	43	8236	1.62	ug/L		86
22) Methylene Chloride	2.596	84	14623	2.54	ug/L		95
23) TBA	2.694	59	19478	46.24	ug/L		88
24) Acrylonitrile	2.822	53	19094	8.64	ug/L		100
25) Methyl-t-Butyl Ether	2.864	73	36277	2.70	ug/L		94
26) trans-1,2-Dichloroethene	2.864	96	14160	2.51	ug/L		93
27) 1,1-Diclethane	3.309	63	26911	1.97	ug/L		93
28) Vinyl Acetate	3.377	86	2433	2.95	ug/L	#	11
29) DIPE	3.401	45	59099	1.67	ug/L		84
30) 2-Chloro-1,3-Butadiene	3.413	53	31352	1.92	ug/L		90
31) ETBE	3.876	59	51228	2.19	ug/L		94
32) 2,2-Dichloropropane	4.059	77	20888	2.53	ug/L		96
33) cis-1,2-Dichloroethene	4.059	96	16210	2.33	ug/L		88
34) 2-Butanone	4.096	43	6813	2.39	ug/L		78
35) Propionitrile	4.175	54	6828	10.82	ug/L		63

00171

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 11:25:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	4.413	130	9338	2.12	ug/L		91
37) Methacrylonitrile	4.401	67	3962m	2.37	ug/L		
38) Tetrahydrofuran	4.498	42	4583m	2.48	ug/L		
39) Chloroform	4.571	83	25111m	2.22	ug/L		
40) 1,1,1-Trichloroethane	4.858	97	23570	2.48	ug/L		91
42) Cyclohexane	4.949	41	20087	1.87	ug/L		94
44) Carbontetrachloride	5.157	121	6804	2.62	ug/L	#	70
45) 1,1-Dichloropropene	5.163	75	21215	2.31	ug/L		95
47) Benzene	5.504	78	60163	2.23	ug/L		96
48) 1,2-Dichloroethane	5.541	62	19654	2.06	ug/L		97
49) Iso-Butyl Alcohol	5.486	43	10202	44.34	ug/L		99
50) TAME	5.742	73	37383	2.52	ug/L		89
51) n-Heptane	6.004	43	21853	1.76	ug/L		83
52) 1-Butanol	6.522	56	13507	193.37	ug/L		99
53) Trichloroethene	6.492	130	16263	2.13	ug/L		96
54) Methylcyclohexane	6.742	55	24043	1.99	ug/L	#	82
55) 1,2-Diclpropane	6.790	63	16193	1.92	ug/L		94
56) Dibromomethane	6.943	93	7990	2.20	ug/L		83
57) 1,4-Dioxane	7.004	88	1762m	42.72	ug/L		
58) Methyl Methacrylate	7.022	69	8440	3.63	ug/L		95
59) Bromodichloromethane	7.175	83	19730	2.33	ug/L		94
60) 2-Nitropropane	7.473	41	6211	5.75	ug/L	#	81
61) 2-Chloroethylvinyl Ether	7.595	63	7259	1.89	ug/L		98
62) cis-1,3-Dichloropropene	7.735	75	23657	2.43	ug/L		91
63) 4-Methyl-2-pentanone	7.943	43	11283	1.77	ug/L		86
65) Toluene	8.120	91	64413	2.24	ug/L		94
66) trans-1,3-Dichloropropene	8.394	75	20276	3.00	ug/L		96
67) Ethyl Methacrylate	8.546	69	15301	3.11	ug/L		90
68) 1,1,2-Trichloroethane	8.595	97	11388	2.29	ug/L		97
71) Tetrachloroethene	8.729	164	13279	2.07	ug/L		93
72) 2-Hexanone	8.894	43	9661	2.12	ug/L		94
73) 1,3-Dichloropropane	8.766	76	17708	2.04	ug/L		80
74) Dibromochloromethane	9.003	129	14520	2.27	ug/L		98
75) N-Butyl Acetate	9.052	43	21798	1.94	ug/L		91
76) 1,2-Dibromoethane	9.101	107	11289	2.26	ug/L		91
77) 3-Chlorobenzotrifluoride	9.625	180	26352	2.04	ug/L		90
78) Chlorobenzene	9.607	112	45134	2.14	ug/L		95
79) 4-Chlorobenzotrifluoride	9.680	180	23937	2.00	ug/L		94
80) 1,1,1,2-Tetrachloroethane	9.698	131	15760	2.19	ug/L		89
81) Ethylbenzene	9.729	106	24316	2.26	ug/L	#	88
82) (m+p)Xylene	9.845	106	55149	4.34	ug/L	#	79
83) o-Xylene	10.204	106	27406	2.13	ug/L		95
84) Styrene	10.223	104	46465	2.18	ug/L		95
85) Bromoform	10.375	173	9257	2.88	ug/L		84
86) 2-Chlorobenzotrifluoride	10.461	180	26701	2.05	ug/L		96
87) Isopropylbenzene	10.546	105	71000	2.24	ug/L		99
88) Cyclohexanone	10.613	55	18886	42.04	ug/L		86
89) trans-1,4-Dichloro-2-B...	10.863	53	4427	1.98	ug/L		87
91) 1,1,2,2-Tetrachloroethane	10.814	83	13364	2.11	ug/L		97
92) Bromobenzene	10.796	156	19528	2.08	ug/L		93
93) 1,2,3-Trichloropropane	10.838	110	3623	2.20	ug/L	#	76

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

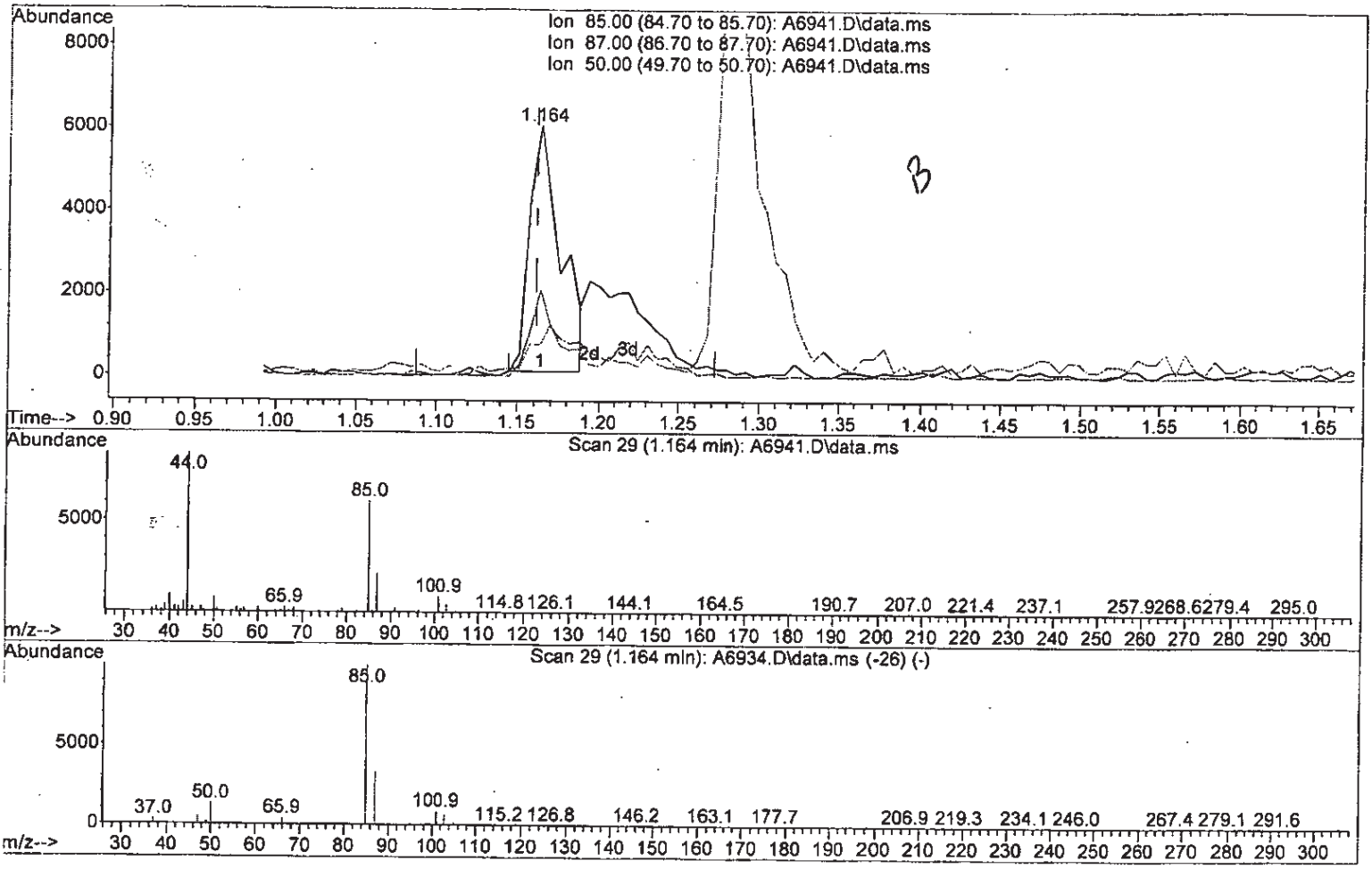
Quant Time: Mar 17 11:25:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	10.912	91	85314	2.33	ug/L	98
95)	2-Chlorotoluene	10.973	91	52642	2.31	ug/L	98
96)	3-Chlorotoluene	11.027	91	54074	2.19	ug/L	93
97)	4-Chlorotoluene	11.064	91	61842	2.25	ug/L	99
98)	1,3,5-Trimethylbenzene	11.064	105	60603	2.25	ug/L	95
99)	tert-Butylbenzene	11.338	119	51776	2.26	ug/L	99
100)	1,2,4-Trimethylbenzene	11.381	105	63741	2.35	ug/L	99
101)	3,4-Dichlorobenzotrifl...	11.442	214	18096	1.78	ug/L	98
102)	sec-Butylbenzene	11.521	105	72574	2.27	ug/L	98
103)	p-Isopropyltoluene	11.649	119	62032	2.21	ug/L	97
104)	1,3-Dclbenz	11.607	146	37213	2.00	ug/L	94
105)	1,4-Dclbenz	11.680	146	38344	2.00	ug/L	93
106)	2,4-Dichlorobenzotrifl...	11.735	214	16992	1.90	ug/L	93
107)	2,5-Dichlorobenzotrifl...	11.777	214	20474	1.93	ug/L	95
108)	n-Butylbenzene	11.985	91	55222	2.28	ug/L	93
109)	1,2-Dclbenz	11.985	146	34958	2.07	ug/L	97
110)	1,2-Dibromo-3-chloropr...	12.606	157	2704	2.41	ug/L	91
111)	Trielution Dichlorotol...	12.728	125	97036	6.49	ug/L	96
112)	1,3,5-Trichlorobenzene	12.783	180	27837	1.97	ug/L	86
113)	Coelution Dichlorotoluene	13.064	125	67685	4.38	ug/L	97
114)	1,2,4-Tcbenzene	13.271	180	21276	1.83	ug/L	95
115)	Hexachlorobt	13.405	225	10171	1.87	ug/L	99
116)	Naphthalen	13.460	128	35597	1.97	ug/L	97
117)	1,2,3-Tclbenzene	13.649	180	16141	1.73	ug/L	96
118)	2,4,5-Trichlorotoluene	14.234	159	9849	1.43	ug/L	100
119)	2,3,6-Trichlorotoluene	14.326	159	8994	1.26	ug/L	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 19:02:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6941.D\data.ms

(2) Dichlorodifluoromethane (P)

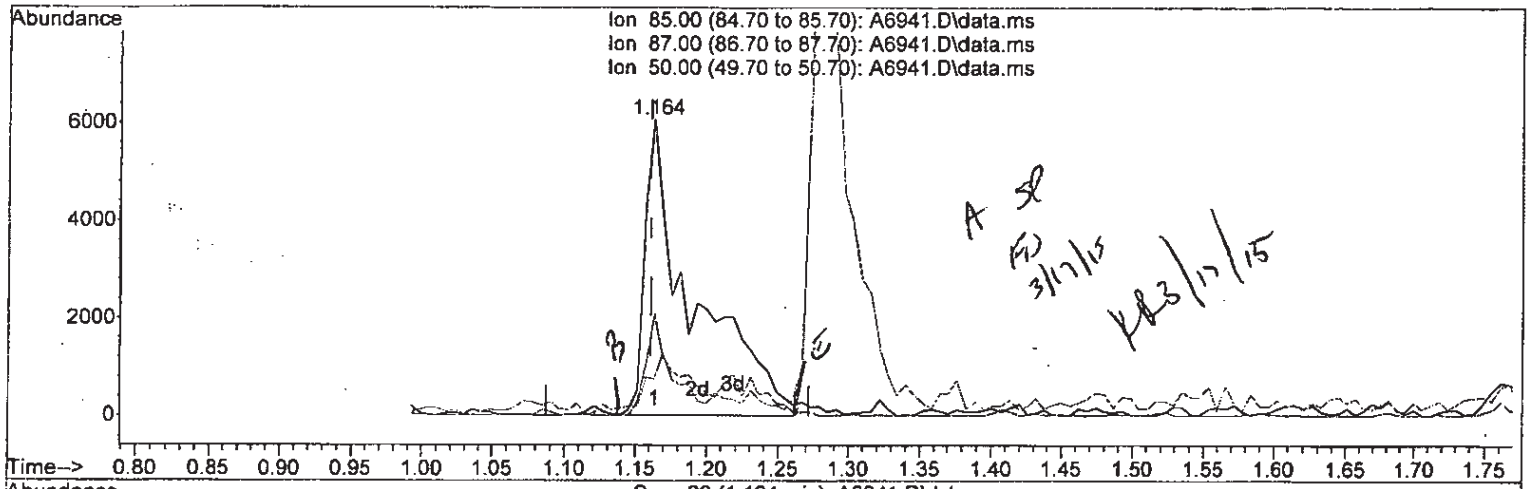
1.164min (+0.002) 0.99 ug/L

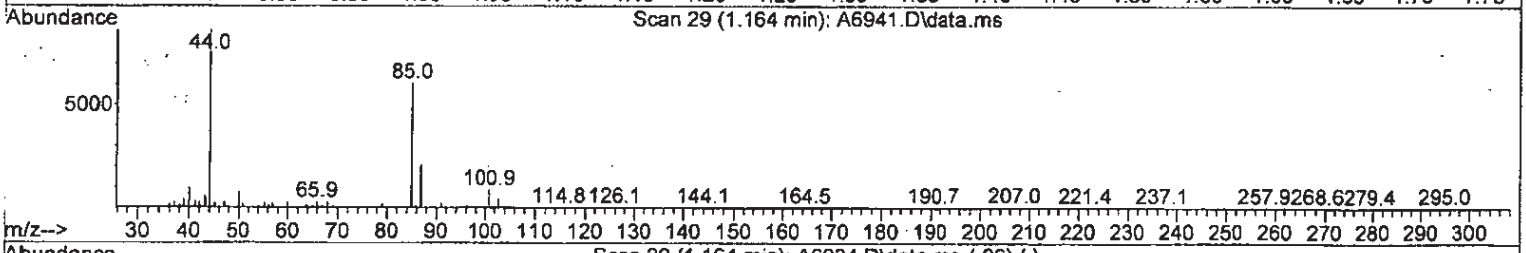
response 7815

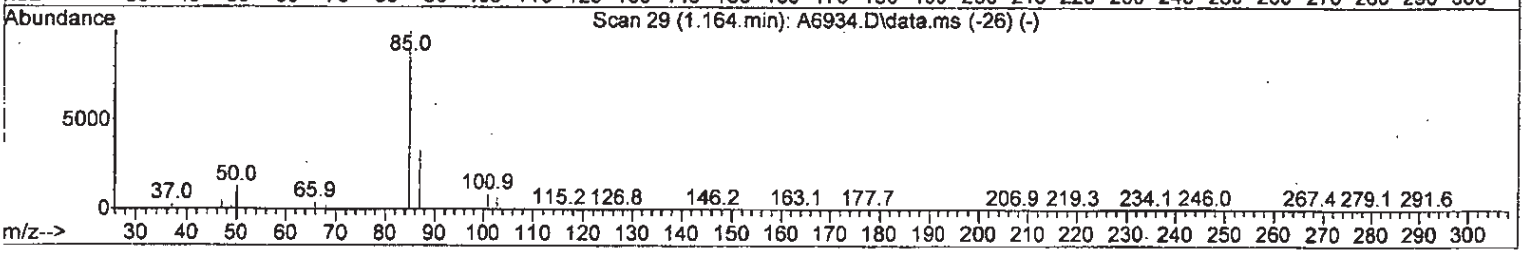
Ion	Exp%	Act%
85.00	100	100
87.00	31.50	34.26
50.00	15.00	12.36
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 19:02:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6941.D\data.ms

(2) Dichlorodifluoromethane (P)

1.164min (+0.002) 1.79 ug/L m

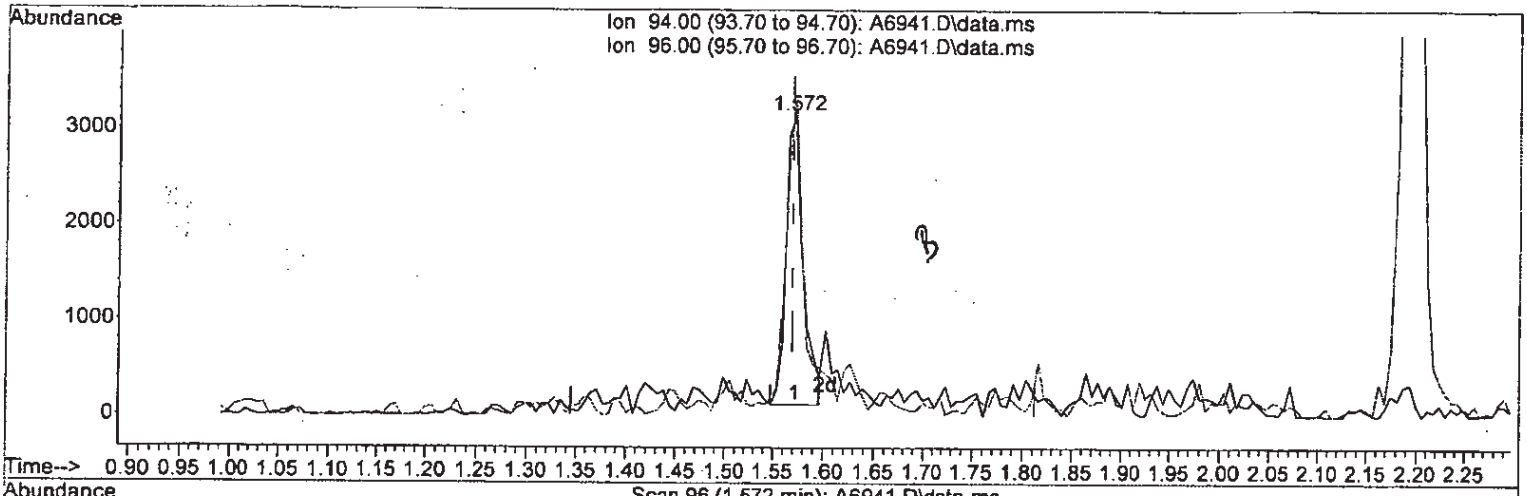
response 14116

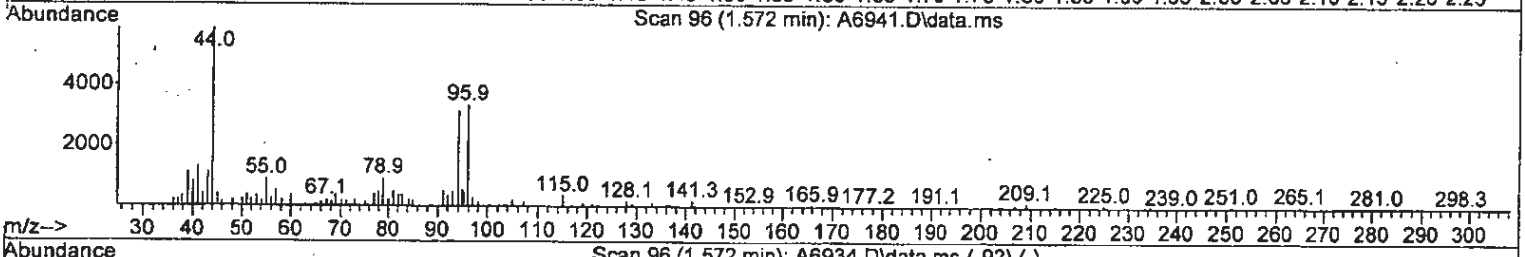
Ion	Exp%	Act%
85.00	100	100
87.00	31.50	34.26
50.00	15.00	12.36
0.00	0.00	0.00

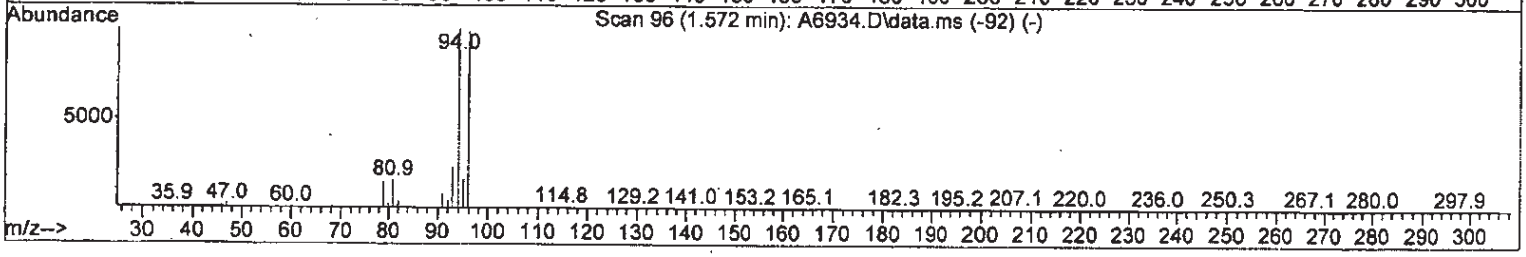
00175

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 11:06:55 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6941.D\data.ms

(5) Bromomethane (P)

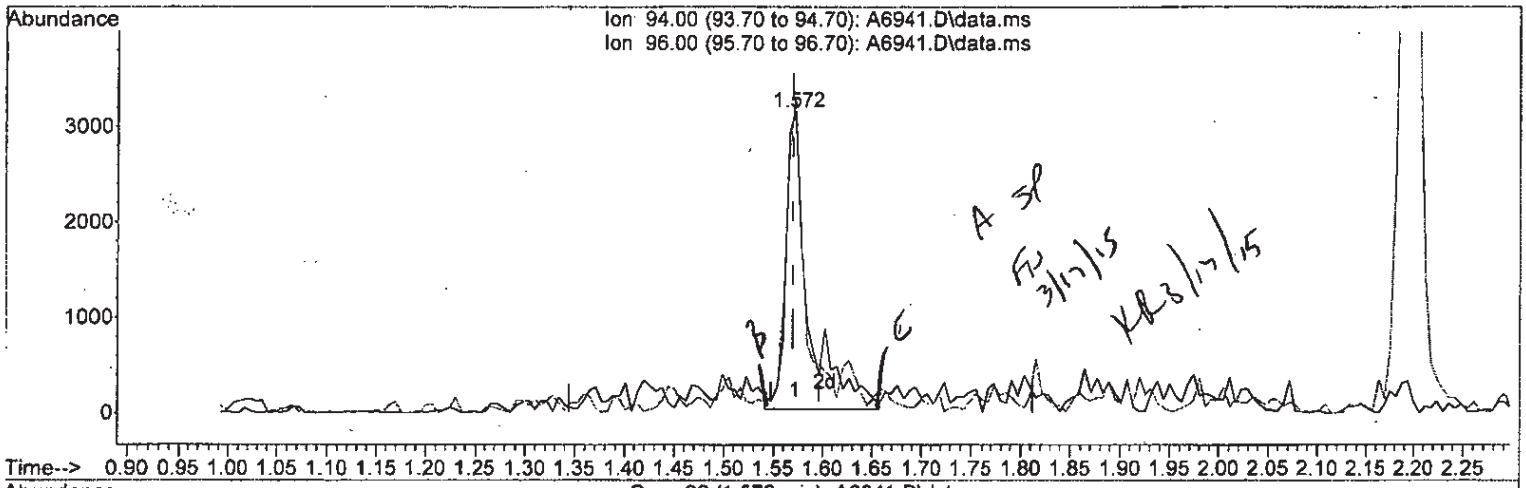
1.572min (+0.002) 0.81 ug/L

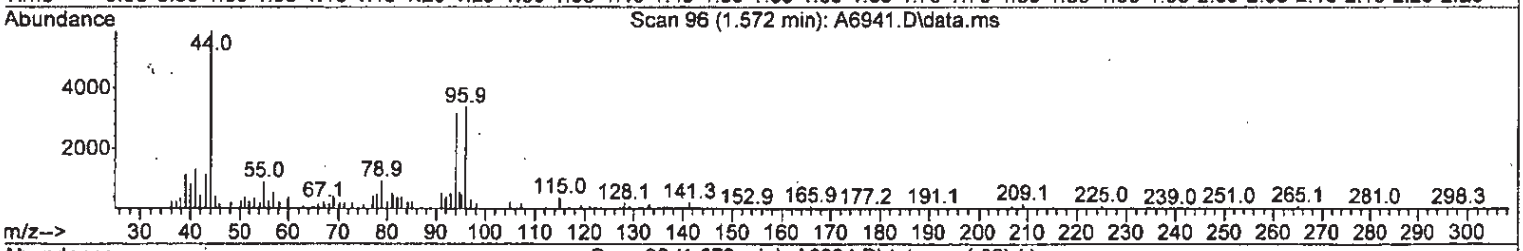
response 3606

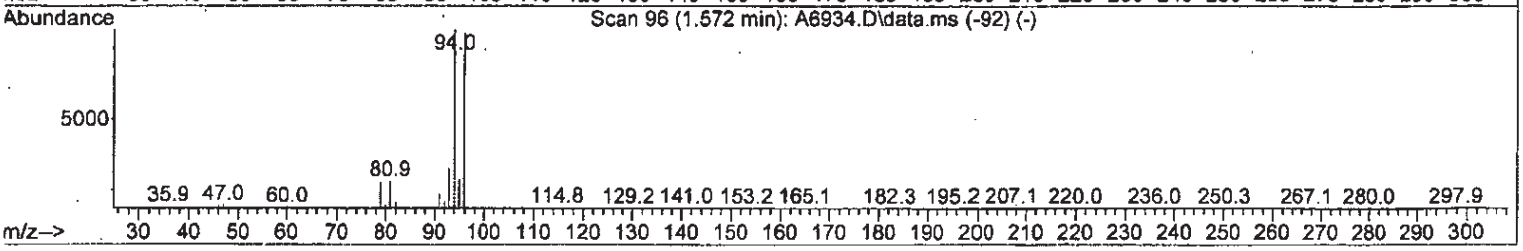
Ion	Exp%	Act%
94.00	100	100
96.00	91.60	90.29
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 11:06:55 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6941.D\data.ms

(5) Bromomethane (P)

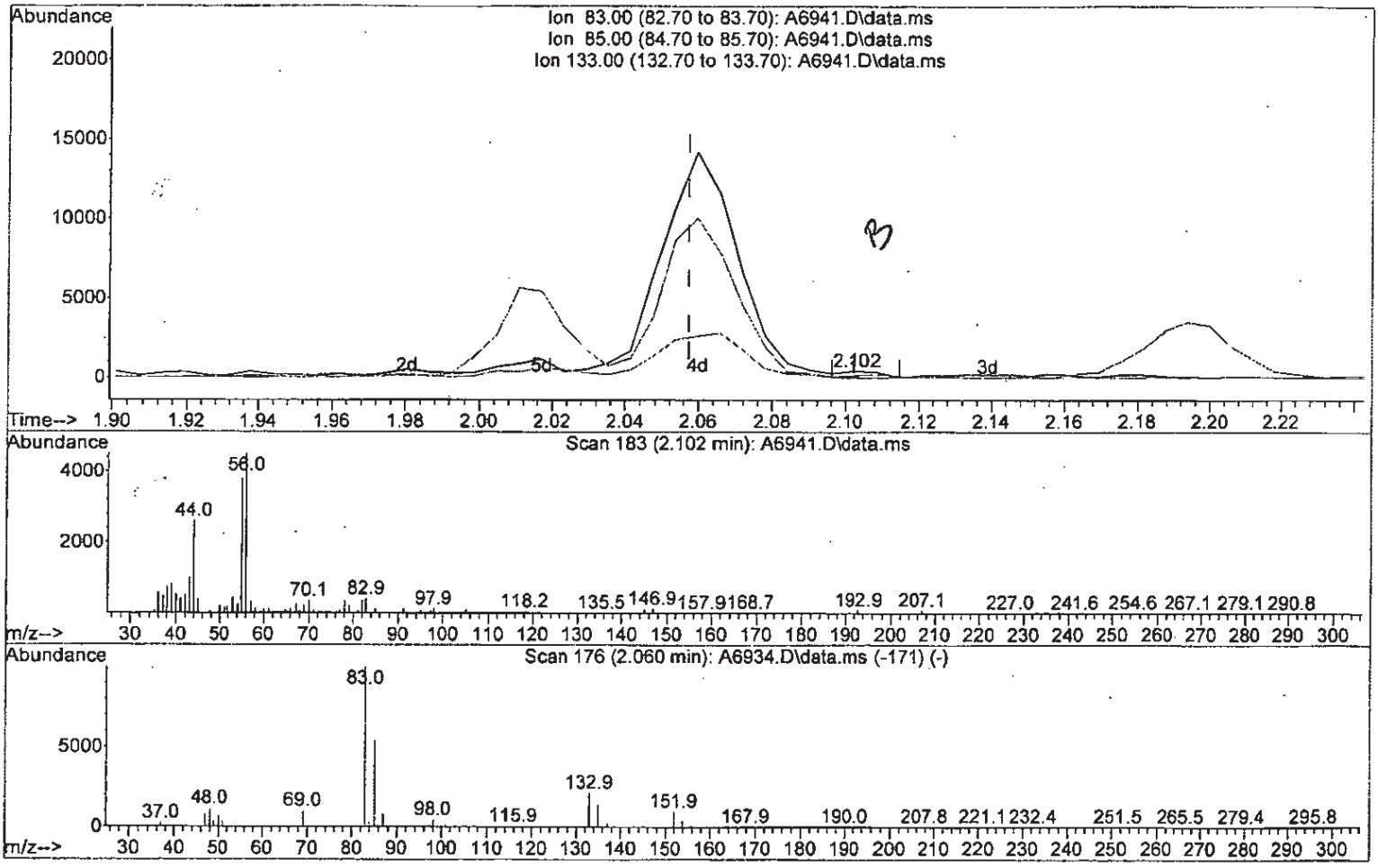
1.572min (+0.002) 1.12 ug/L m

response 4974

Ion	Exp%	Act%
94.00	100	100
96.00	91.60	106.28
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 19:02:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6941.D\data.ms

(11) Freon 123

2.102min (+0.045) 0.04 ug/L

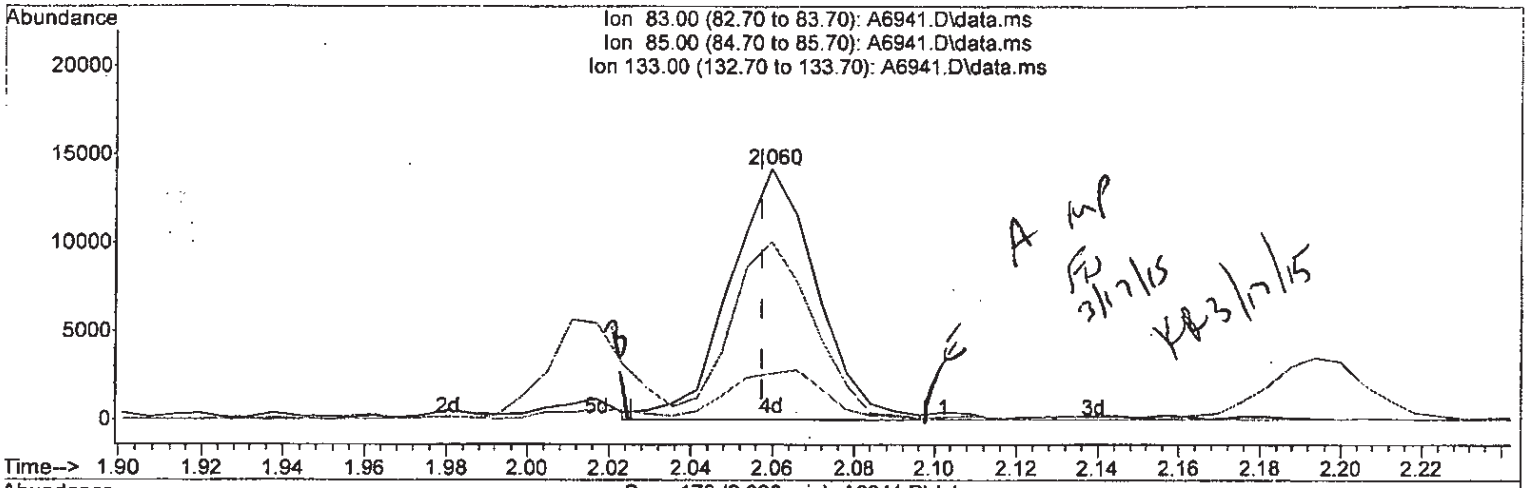
response 274

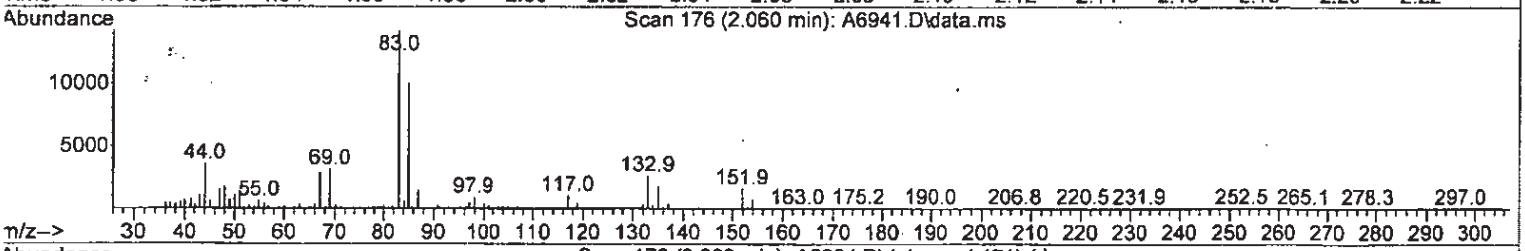
Ion	Exp%	Act%
83.00	100	100
85.00	47.30	30.20
133.00	19.90	0.00
0.00	0.00	0.00

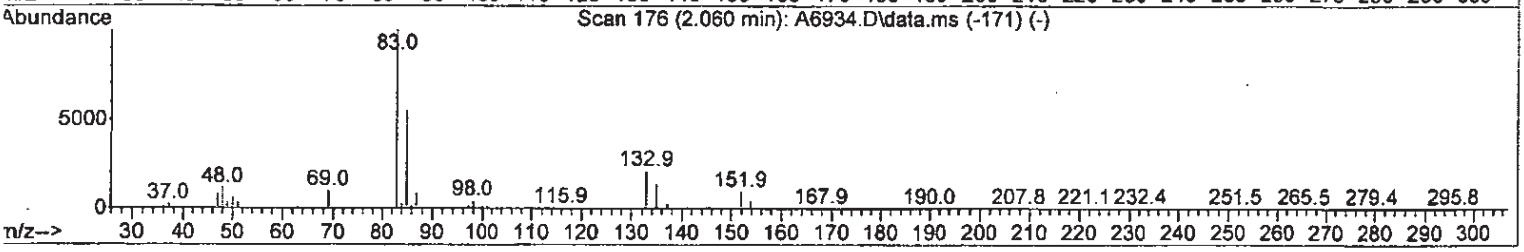
00178

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 19:02:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6941.D\data.ms

(11) Freon 123

2.060min (+0.002) 2.66 ug/L m

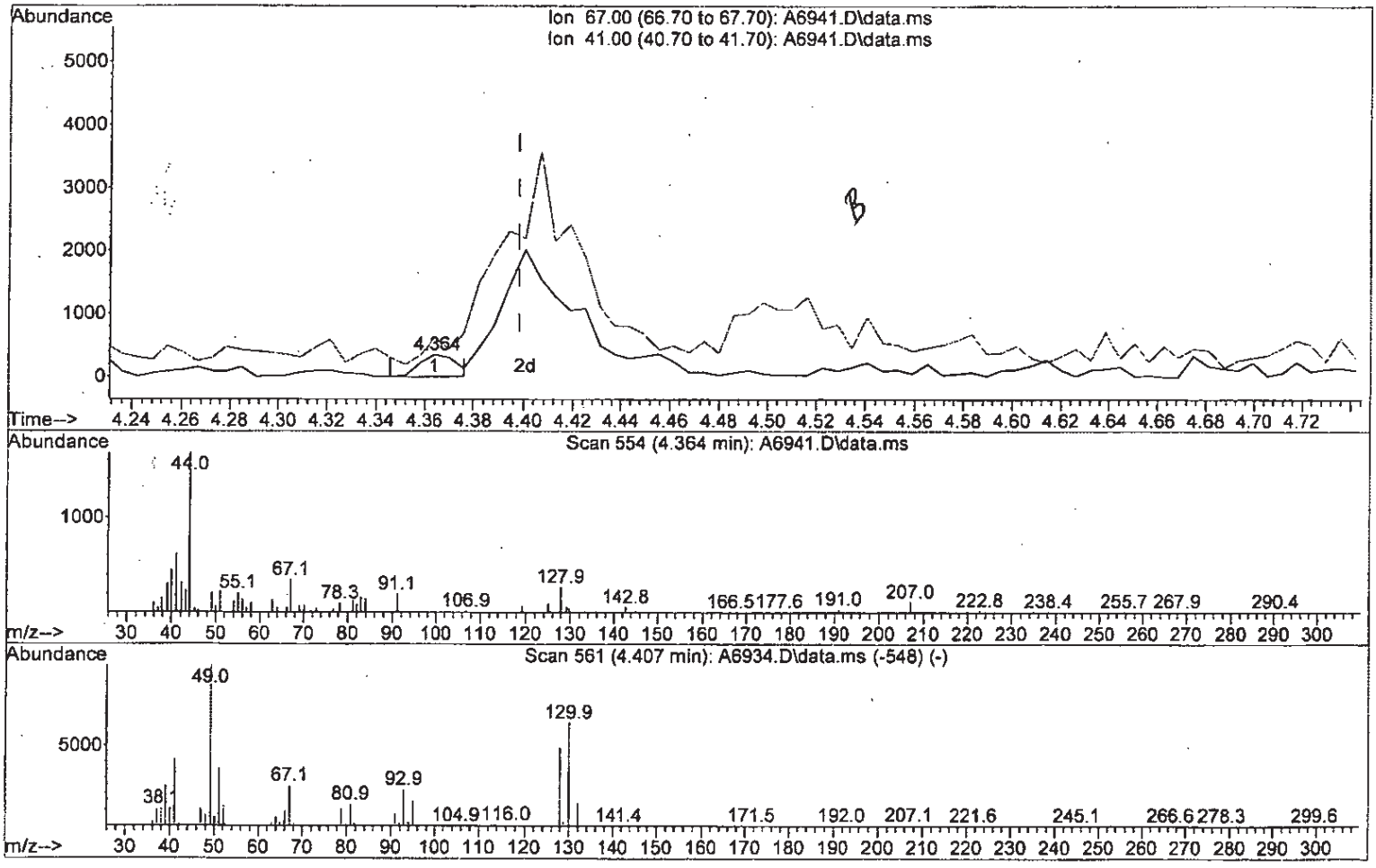
response 20733

Ion	Exp%	Act%
83.00	100	100
85.00	47.30	70.82#
133.00	19.90	18.28
0.00	0.00	0.00

0017

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 19:02:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6941.D\data.ms

(37) Methacrylonitrile

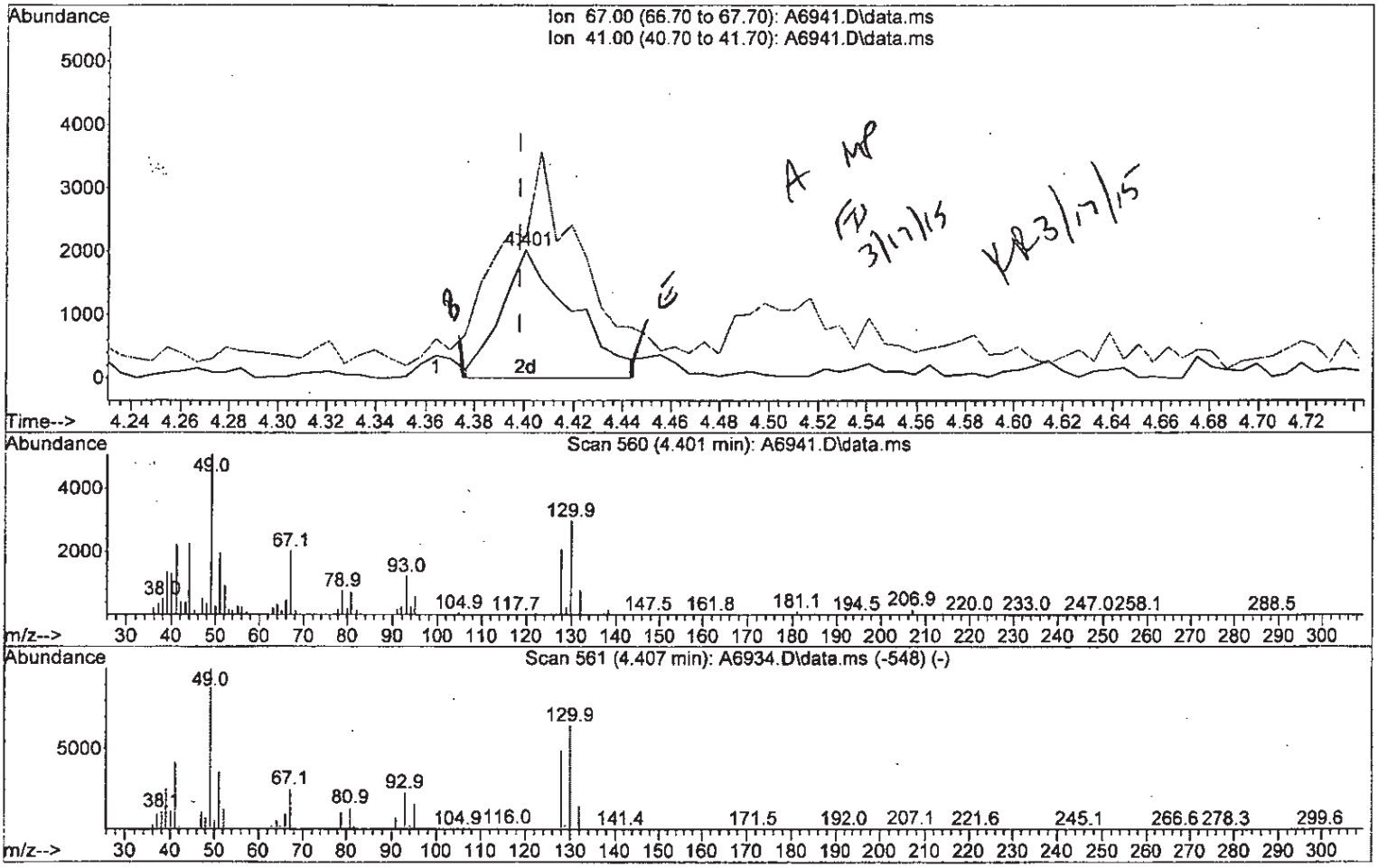
4.364min (-0.034) 0.22 ug/L

response 373

Ion	Exp%	Act%
67.00	100	100
41.00	153.20	170.36
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 19:02:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6941.D\data.ms

(37) Methacrylonitrile

4.401min (+0.002) 2.37 ug/L m

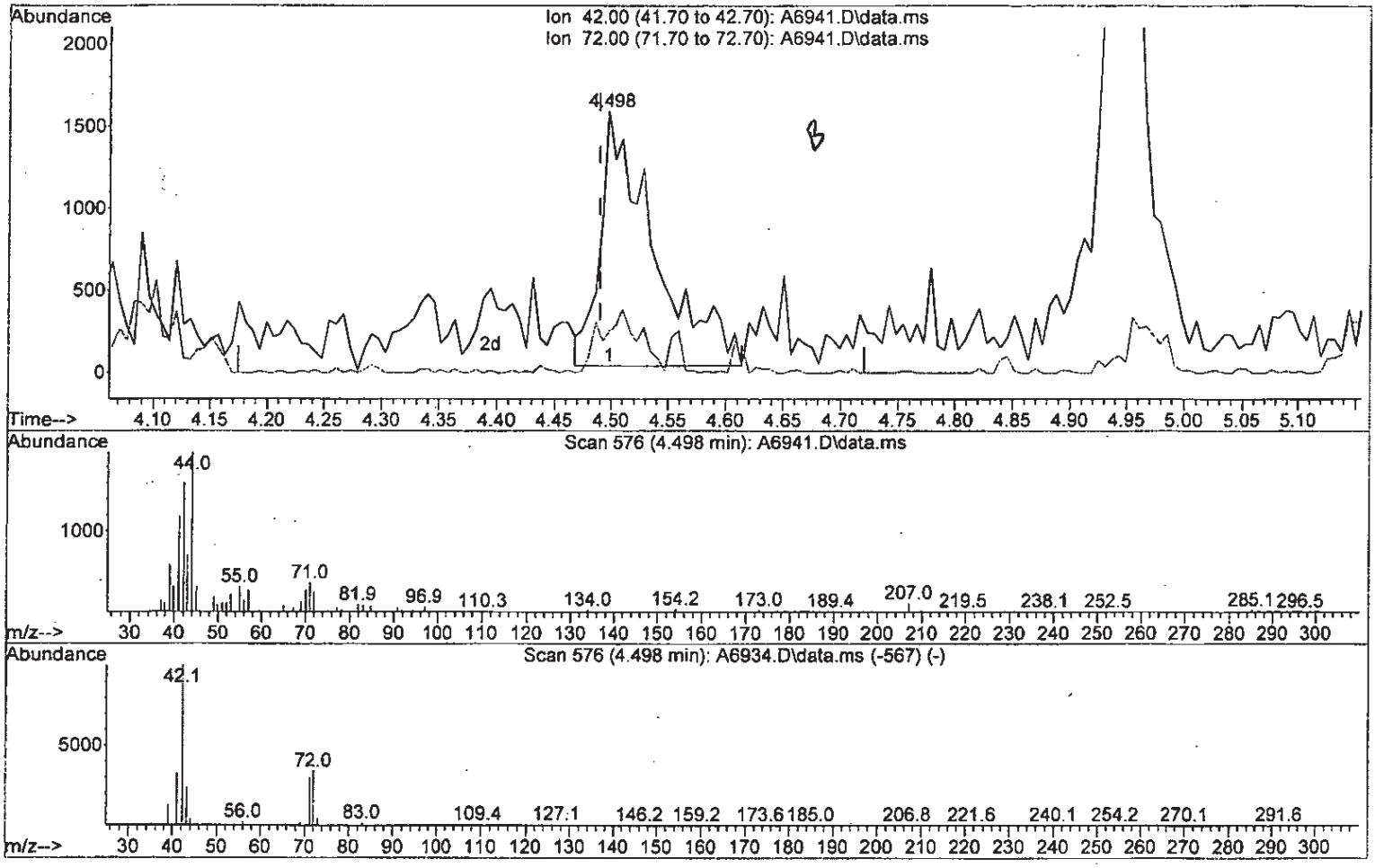
response 3962

Ion	Exp%	Act%
67.00	100	100
41.00	153.20	108.83#
0.00	0.00	0.00
0.00	0.00	0.00

00181

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 10:35:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6941.D\data.ms

(38) Tetrahydrofuran

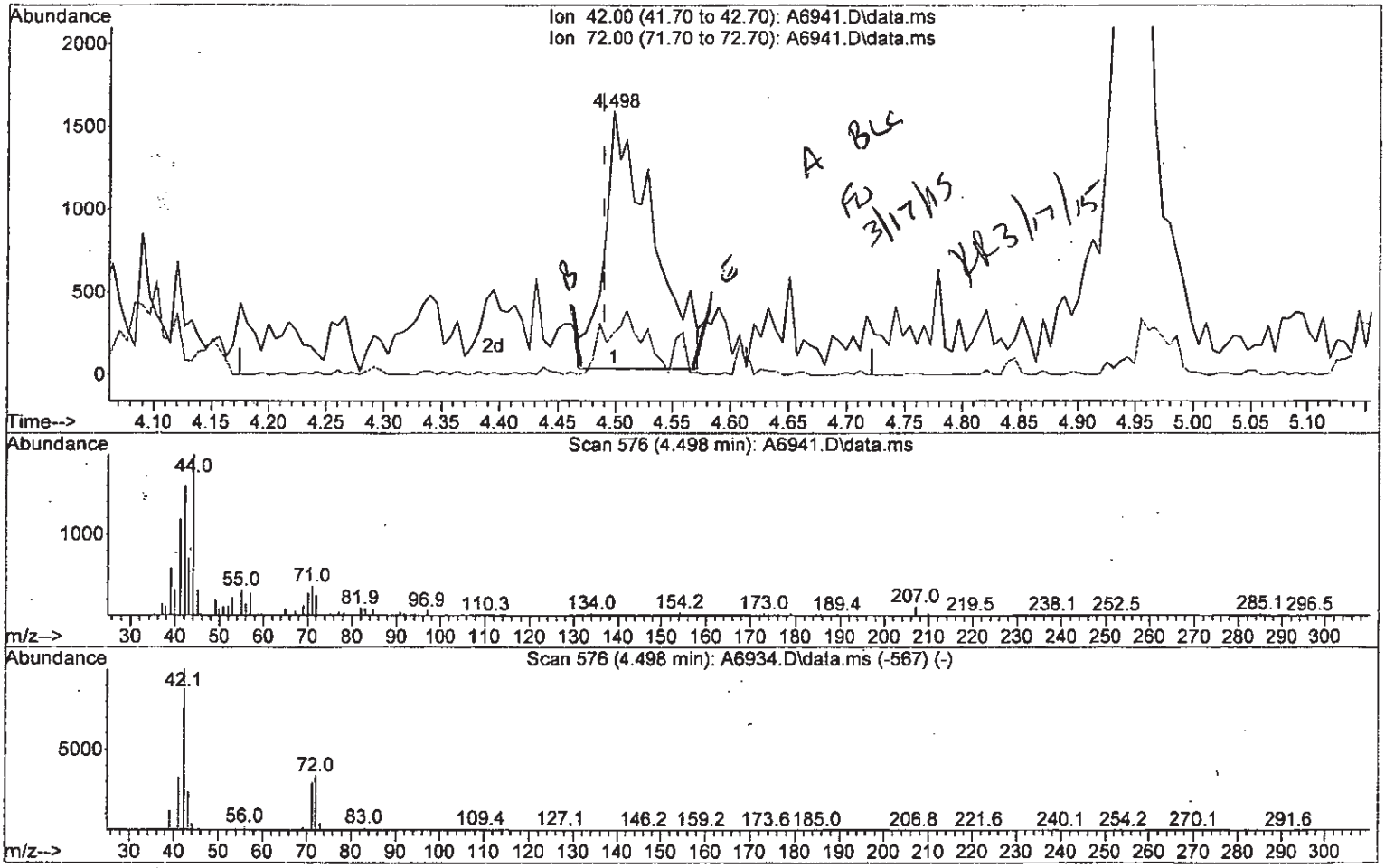
4.498min (+0.008) 2.75 ug/L

response 5074

Ion	Exp%	Act%
42.00	100	100
72.00	40.30	15.96#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 10:35:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6941.D\data.ms

(38) Tetrahydrofuran

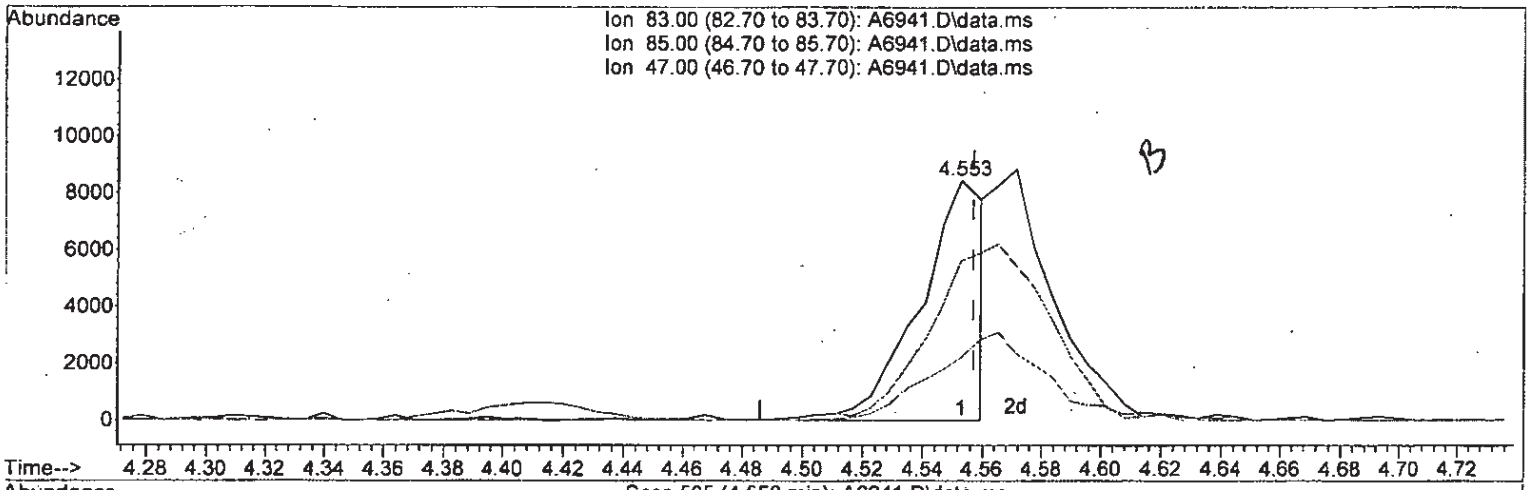
4.498min (+0.008) 2.48 ug/L m

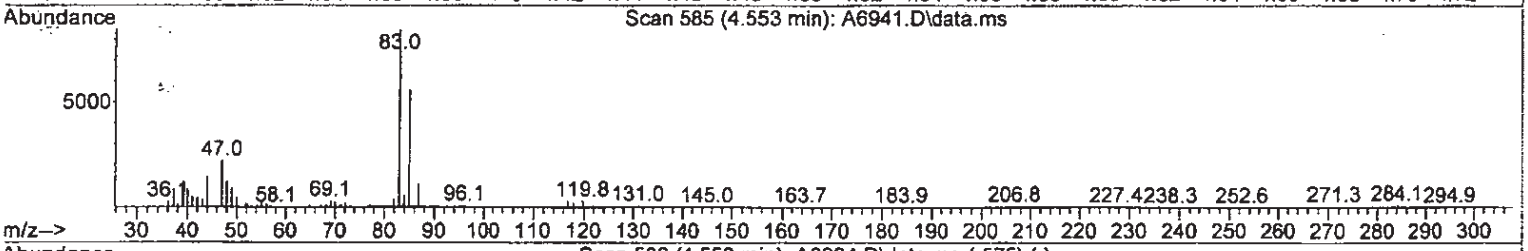
response 4583

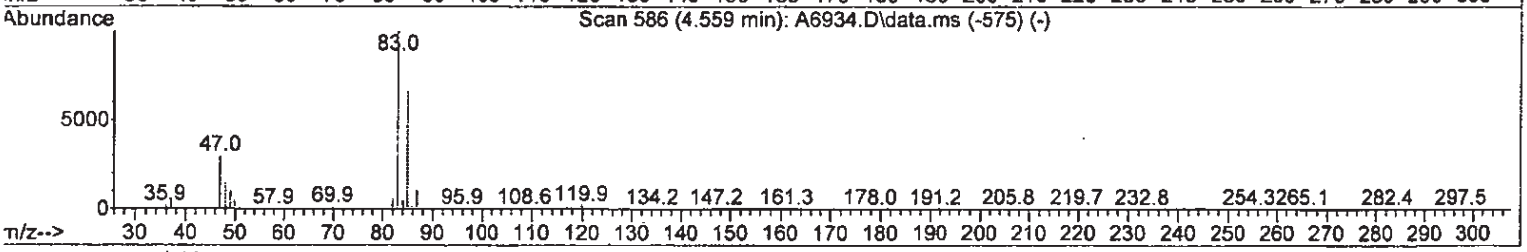
Ion	Exp%	Act%
42.00	100	100
72.00	40.30	15.96#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 19:02:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration







TIC: A6941.D\data.ms

(39) Chloroform (P)

4.553min (-0.004) 1.11 ug/L

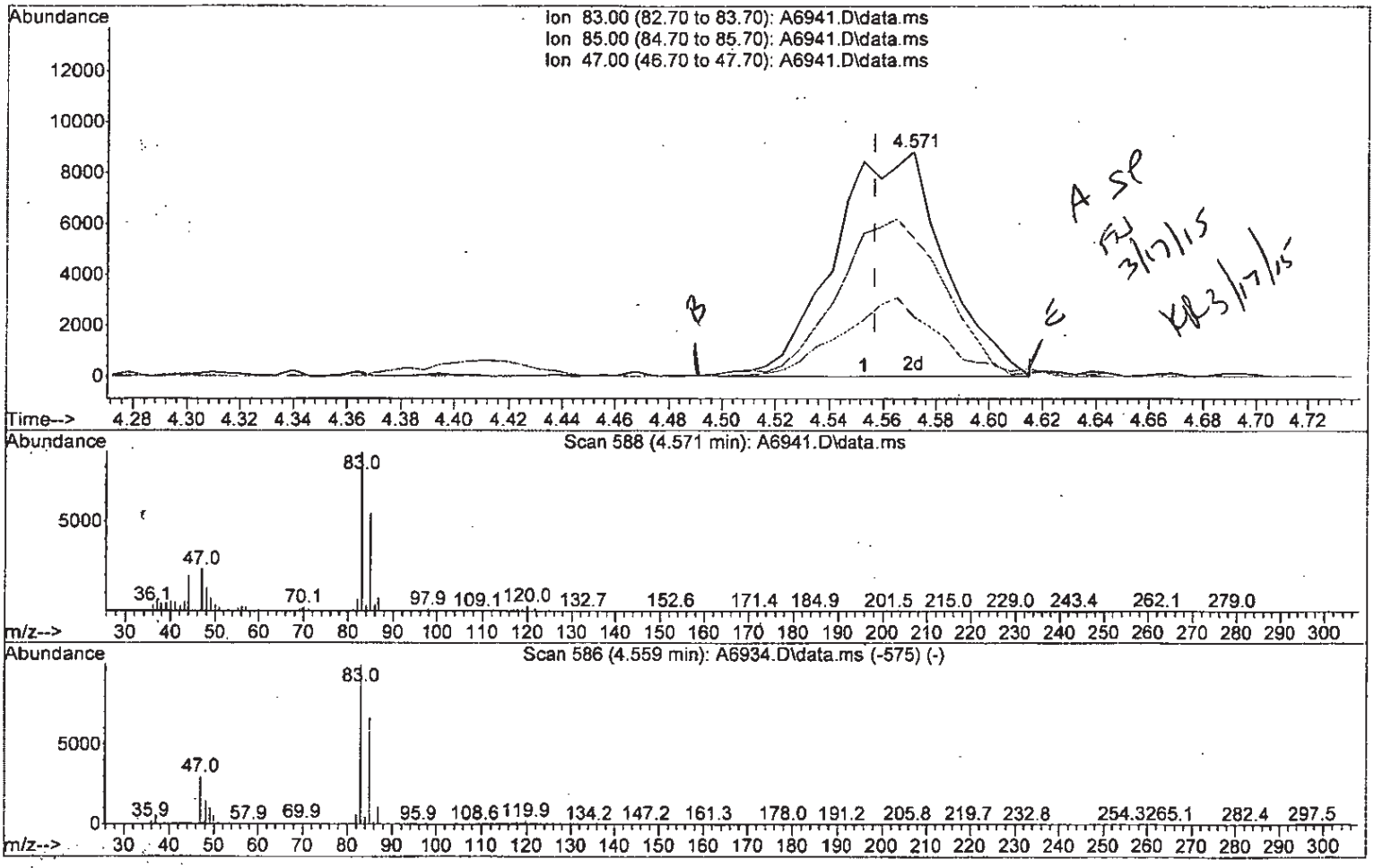
response 12579

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	66.55
47.00	29.90	26.11
0.00	0.00	0.00

0018

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 19:02:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6941.D\data.ms

(39) Chloroform (P)

4.571min (+0.015) 2.22 ug/L m

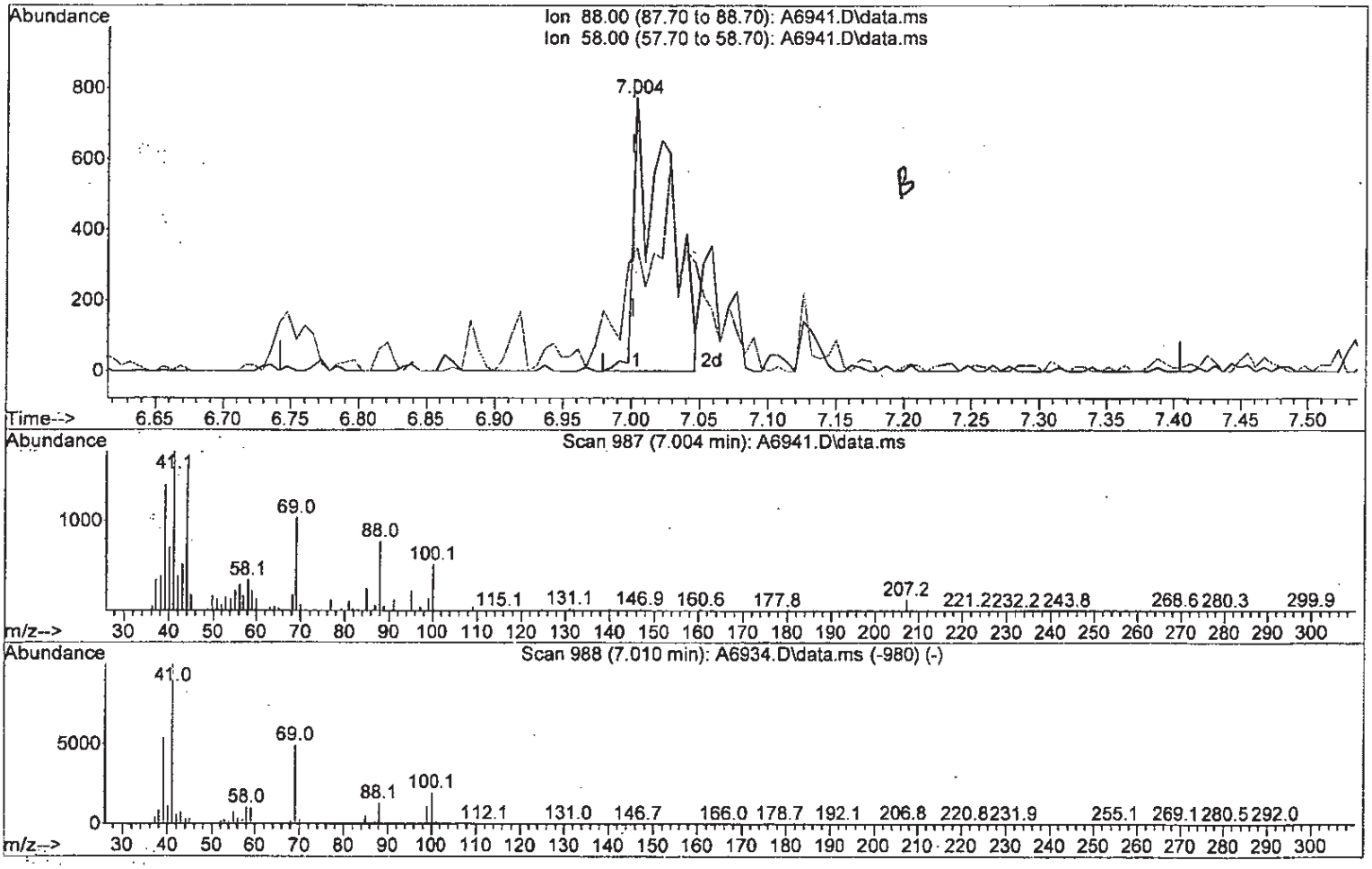
response 25111

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	61.33
47.00	29.90	26.56
0.00	0.00	0.00

00185

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 19:02:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6941.D\data.ms

(57) 1,4-Dioxane

7.004min (+0.002) 32.47 ug/L

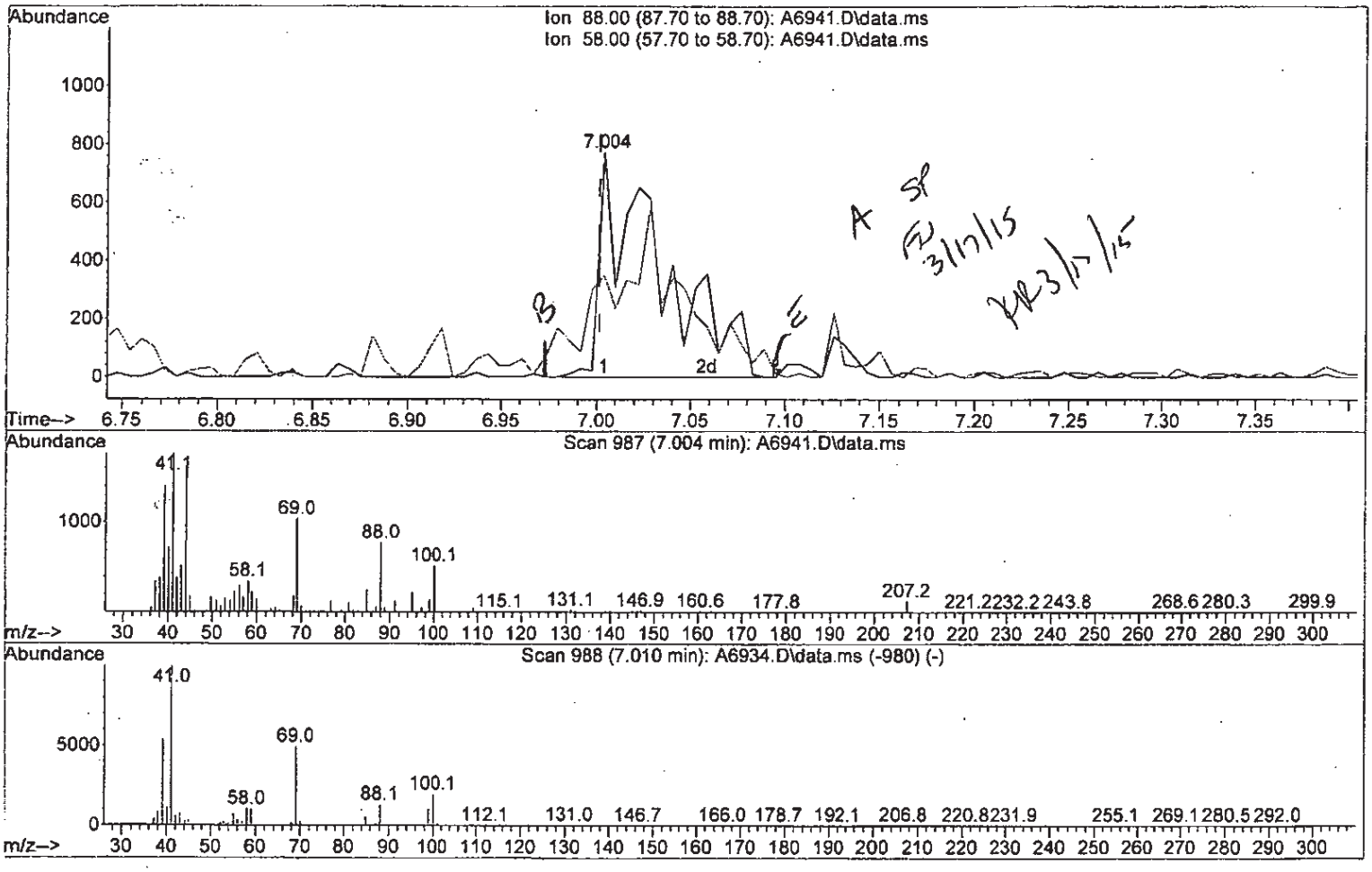
response 1339

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	45.21
0.00	0.00	0.00
0.00	0.00	0.00

00186

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 19:02:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6941.D\data.ms

(57) 1,4-Dioxane

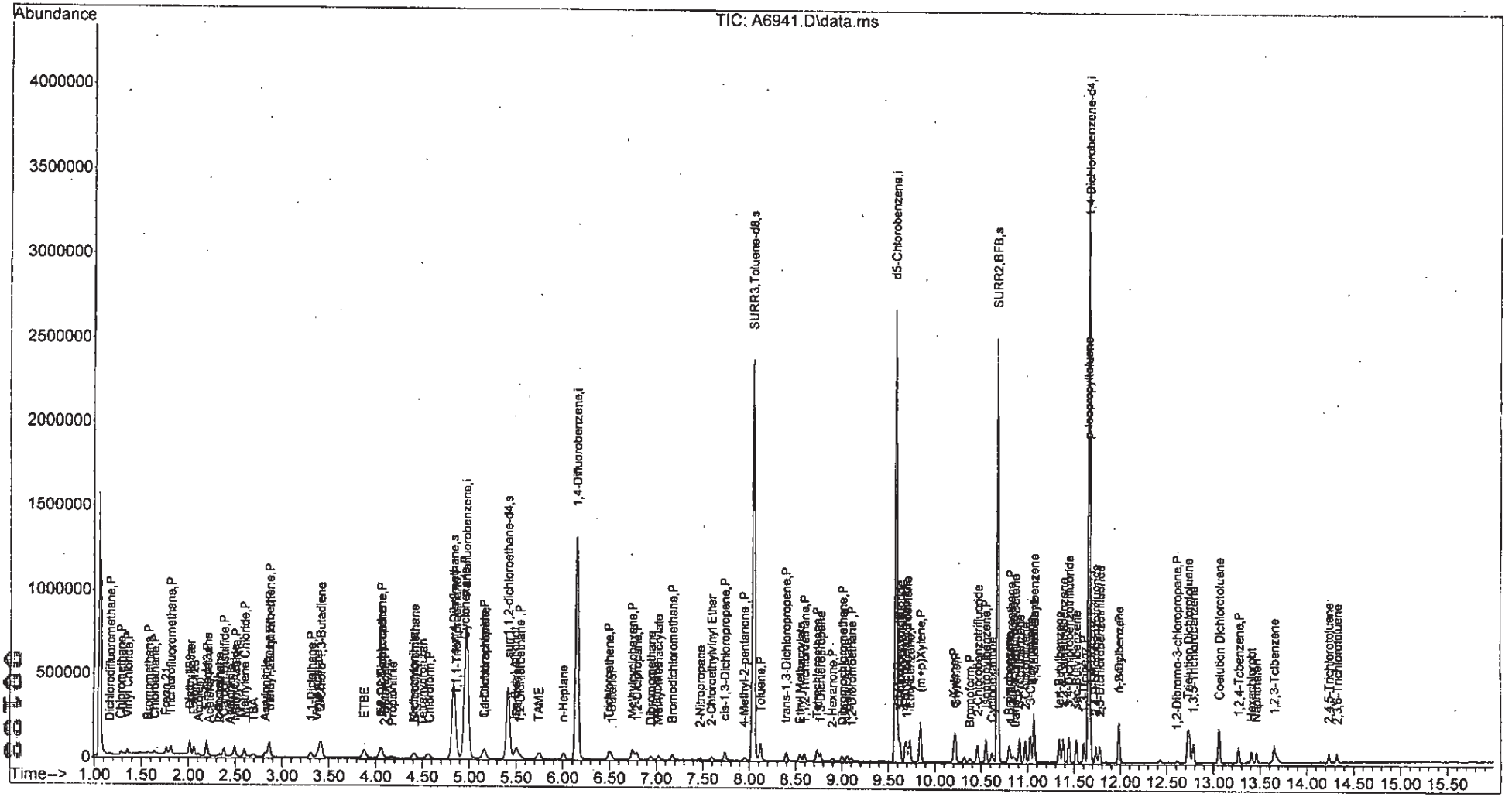
7.004min (+0.002) 42.72 ug/L m

response 1762

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	45.21
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6941.D
Acq On : 16 Mar 2015 6:47 pm
Operator : F. NAEGLER
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 11:25:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6942.D
Acq On : 16 Mar 2015 7:16 pm
Operator : F. NAEGLER
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 10:37:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

FV 3/17/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.968	168	815158	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.150	114	1218977	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.576	117	1184096	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.661	152	705201	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	4.834	113	423011	57.19	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 114.38%				
46) surr1,1,2-dichloroetha...	5.413	65	445288	59.81	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 119.62%				
64) SURR3,Toluene-d8	8.046	98	1607294	59.82	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 119.64%				
69) SURR2,BFB	10.674	95	712835	63.56	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 127.12%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.164	85	34589m	4.47	ug/L		
3) Chloromethane	1.279	50	44803	3.08	ug/L		94
4) Vinyl Chloride	1.353	62	43013	4.28	ug/L		90
5) Bromomethane	1.572	94	12402	2.85	ug/L		99
6) Chloroethane	1.633	64	24949	5.39	ug/L		91
7) Freon 21	1.767	67	73030	5.95	ug/L		100
8) Trichlorofluoromethane	1.810	101	55219	5.76	ug/L		96
9) Diethyl Ether	2.017	59	27705	4.79	ug/L		92
10) Freon 123a	2.011	67	44160	5.78	ug/L		94
11) Freon 123	2.060	83	48500	6.34	ug/L	#	70
12) Acrolein	2.108	56	20096	23.44	ug/L		97
13) 1,1-Diclethene	2.194	96	31077	6.20	ug/L		94
14) Freon 113	2.194	101	34358	6.15	ug/L		98
15) Acetone	2.230	43	8796	4.94	ug/L		97
16) 2-Propanol	2.328	45	33864	100.95	ug/L		87
17) Iodomethane	2.322	142	6592	1.12	ug/L		78
18) Carbon Disulfide	2.377	76	113601	6.35	ug/L		99
19) Acetonitrile	2.450	40	5284	19.24	ug/L	#	77
20) Allyl Chloride	2.493	76	16882	5.24	ug/L	#	56
21) Methyl Acetate	2.505	43	20185	4.04	ug/L		87
22) Methylene Chloride	2.596	84	34848	6.18	ug/L		95
23) TBA	2.688	59	49196	119.10	ug/L		84
24) Acrylonitrile	2.822	53	46553	21.48	ug/L		97
25) Methyl-t-Butyl Ether	2.864	73	90828	6.89	ug/L		94
26) trans-1,2-Dichloroethene	2.858	96	35585	6.42	ug/L		94
27) 1,1-Diclethane	3.309	63	67101	5.00	ug/L		98
28) Vinyl Acetate	3.370	86	5885	7.28	ug/L	#	23
29) DIPE	3.401	45	146110	4.22	ug/L	#	81
30) 2-Chloro-1,3-Butadiene	3.419	53	77194	4.82	ug/L		98
31) ETBE	3.870	59	120603	5.26	ug/L		99
32) 2,2-Dichloropropane	4.053	77	53240	6.56	ug/L		98
33) cis-1,2-Dichloroethene	4.059	96	37861	5.54	ug/L	#	79
34) 2-Butanone	4.090	43	12722	4.55	ug/L		98
35) Propionitrile	4.169	54	16920	25.34	ug/L		90

00189

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6942.D
Acq On : 16 Mar 2015 7:16 pm
Operator : F. NAEGLER
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 10:37:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	4.407	130	22272	5.16	ug/L		88
37) Methacrylonitrile	4.407	67	10103	6.17	ug/L		93
38) Tetrahydrofuran	4.504	42	7428	4.10	ug/L		88
39) Chloroform	4.559	83	59899	5.40	ug/L		99
40) 1,1,1-Trichloroethane	4.852	97	56996	6.11	ug/L		94
42) Cyclohexane	4.943	41	47183	4.46	ug/L		97
44) Carbontetrachloride	5.144	121	15834	6.17	ug/L		93
45) 1,1-Dichloropropene	5.163	75	48313	5.34	ug/L		95
47) Benzene	5.504	78	143608	5.40	ug/L		91
48) 1,2-Dichloroethane	5.541	62	47764	5.07	ug/L		96
49) Iso-Butyl Alcohol	5.486	43	24542	108.16	ug/L		87
50) TAME	5.742	73	94763	6.47	ug/L		91
51) n-Heptane	6.010	43	48630	3.96	ug/L		88
52) 1-Butanol	6.516	56	33908	438.76	ug/L		83
53) Trichloroethene	6.492	130	38868	5.16	ug/L		94
54) Methylcyclohexane	6.748	55	54768	4.60	ug/L		88
55) 1,2-Diclpropane	6.790	63	38531	4.64	ug/L		91
56) Dibromomethane	6.937	93	17833	4.98	ug/L		95
57) 1,4-Dioxane	7.016	88	5011m	123.20	ug/L		
58) Methyl Methacrylate	7.028	69	16759	6.99	ug/L		98
59) Bromodichloromethane	7.175	83	45717	5.47	ug/L		96
60) 2-Nitropropane	7.467	41	14728	13.83	ug/L		84
61) 2-Chloroethylvinyl Ether	7.595	63	17816	4.71	ug/L		99
62) cis-1,3-Dichloropropene	7.735	75	56573	5.90	ug/L		94
63) 4-Methyl-2-pentanone	7.949	43	27881	4.44	ug/L		95
65) Toluene	8.119	91	156849	5.53	ug/L		98
66) trans-1,3-Dichloropropene	8.400	75	48624	7.12	ug/L		96
67) Ethyl Methacrylate	8.540	69	35935	7.23	ug/L		93
68) 1,1,2-Trichloroethane	8.595	97	27691	5.64	ug/L		98
71) Tetrachloroethene	8.729	164	34156	5.46	ug/L		88
72) 2-Hexanone	8.894	43	17890	4.02	ug/L		95
73) 1,3-Dichloropropane	8.766	76	46648	5.51	ug/L		85
74) Dibromochloromethane	8.997	129	34541	5.55	ug/L		95
75) N-Butyl Acetate	9.052	43	50822	4.64	ug/L		96
76) 1,2-Dibromoethane	9.101	107	26600	5.45	ug/L		96
77) 3-Chlorobenzotrifluoride	9.625	180	63222	5.02	ug/L		97
78) Chlorobenzene	9.607	112	107465	5.22	ug/L		96
79) 4-Chlorobenzotrifluoride	9.680	180	57460	4.92	ug/L		94
80) 1,1,1,2-Tetrachloroethane	9.692	131	35999	5.14	ug/L		92
81) Ethylbenzene	9.729	106	57876	5.52	ug/L	#	88
82) (m+p)Xylene	9.845	106	141137	11.40	ug/L		89
83) o-Xylene	10.211	106	68804	5.49	ug/L		94
84) Styrene	10.223	104	117855	5.68	ug/L		99
85) Bromoform	10.375	173	20973	6.56	ug/L		91
86) 2-Chlorobenzotrifluoride	10.460	180	64033	5.04	ug/L		95
87) Isopropylbenzene	10.546	105	175289	5.68	ug/L		97
88) Cyclohexanone	10.613	55	45176	103.20	ug/L		93
89) trans-1,4-Dichloro-2-B...	10.863	53	11074	5.09	ug/L		93
91) 1,1,2,2-Tetrachloroethane	10.814	83	32823	5.16	ug/L		92
92) Bromobenzene	10.796	156	46811	4.98	ug/L		97
93) 1,2,3-Trichloropropane	10.845	110	9733	5.89	ug/L		92

00190

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6942.D
Acq On : 16 Mar 2015 7:16 pm
Operator : F. NAEGLER
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

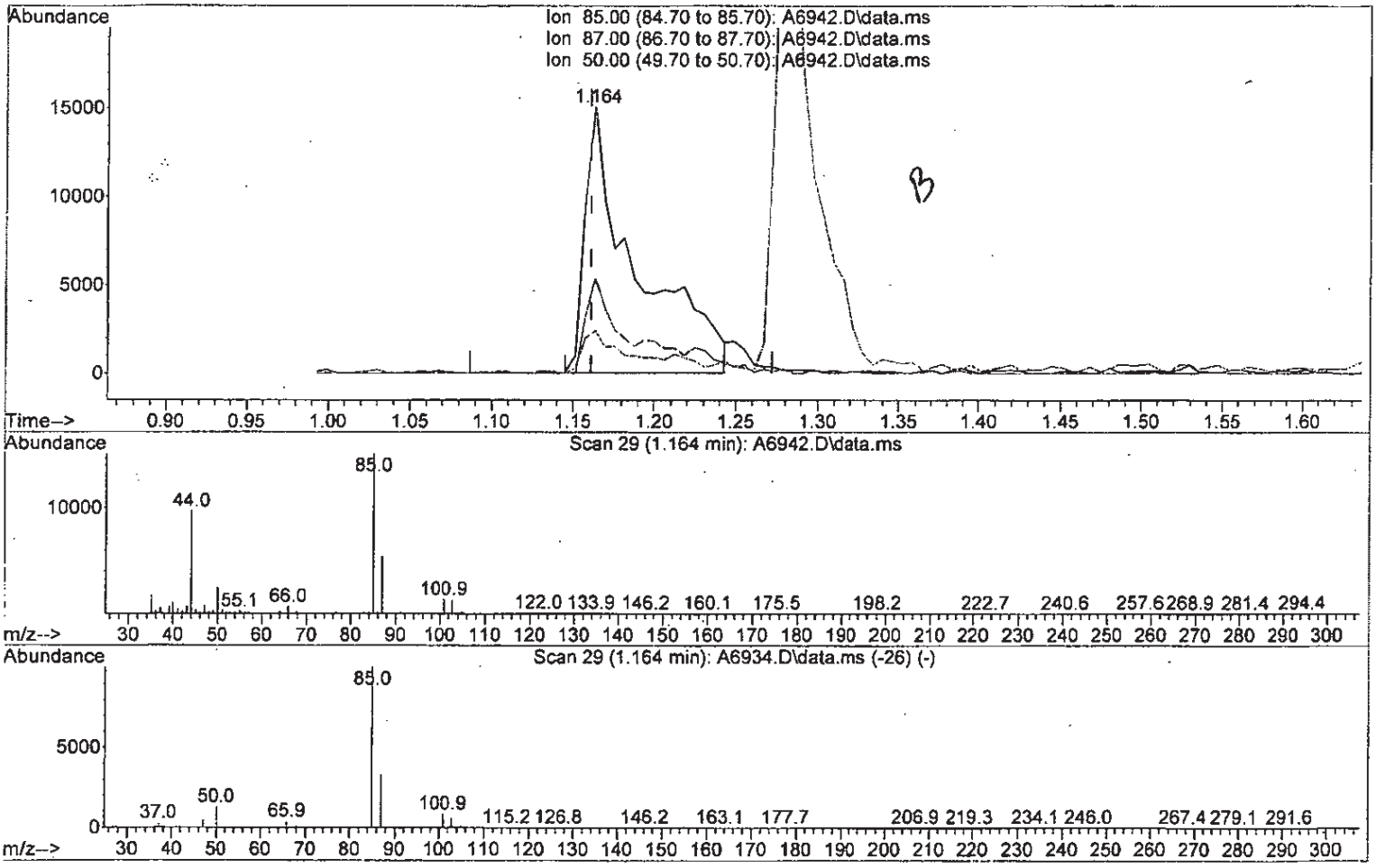
Quant Time: Mar 17 10:37:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	10.912	91	207883	5.67	ug/L	98
95)	2-Chlorotoluene	10.973	91	126636	5.55	ug/L	99
96)	3-Chlorotoluene	11.027	91	141302	5.72	ug/L	99
97)	4-Chlorotoluene	11.064	91	150018	5.45	ug/L	97
98)	1,3,5-Trimethylbenzene	11.064	105	150921	5.58	ug/L	99
99)	tert-Butylbenzene	11.338	119	130232	5.67	ug/L	98
100)	1,2,4-Trimethylbenzene	11.381	105	157673	5.80	ug/L	97
101)	3,4-Dichlorobenzotrifl...	11.442	214	49381	4.85	ug/L	97
102)	sec-Butylbenzene	11.521	105	179859	5.60	ug/L	99
103)	p-Isopropyltoluene	11.649	119	158447	5.64	ug/L	97
104)	1,3-Dclbenz	11.607	146	98055	5.25	ug/L	97
105)	1,4-Dclbenz	11.680	146	100241	5.22	ug/L	96
106)	2,4-Dichlorobenzotrifl...	11.735	214	43207	4.81	ug/L	95
107)	2,5-Dichlorobenzotrifl...	11.777	214	48811	4.59	ug/L	98
108)	n-Butylbenzene	11.985	91	137788	5.69	ug/L	98
109)	1,2-Dclbenz	11.985	146	88609	5.24	ug/L	96
110)	1,2-Dibromo-3-chloropr...	12.613	157	6494	5.78	ug/L	92
111)	Trielution Dichlorotol...	12.728	125	248683	16.59	ug/L	95
112)	1,3,5-Trichlorobenzene	12.783	180	69605	4.91	ug/L	92
113)	Coelution Dichlorotoluene	13.058	125	175385	11.32	ug/L	94
114)	1,2,4-Tcbenzene	13.271	180	55058	4.72	ug/L	95
115)	Hexachlorobt	13.411	225	24768	4.55	ug/L	93
116)	Naphthalen	13.460	128	94246	5.21	ug/L	99
117)	1,2,3-Tclbenzene	13.649	180	39834	4.27	ug/L	98
118)	2,4,5-Trichlorotoluene	14.234	159	27846	4.04	ug/L	95
119)	2,3,6-Trichlorotoluene	14.326	159	23617	3.30	ug/L	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6942.D
Acq On : 16 Mar 2015 7:16 pm
Operator : F. NAEGLER
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 19:31:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6942.D\data.ms

(2) Dichlorodifluoromethane (P)

1.164min (+0.002) 4.22 ug/L

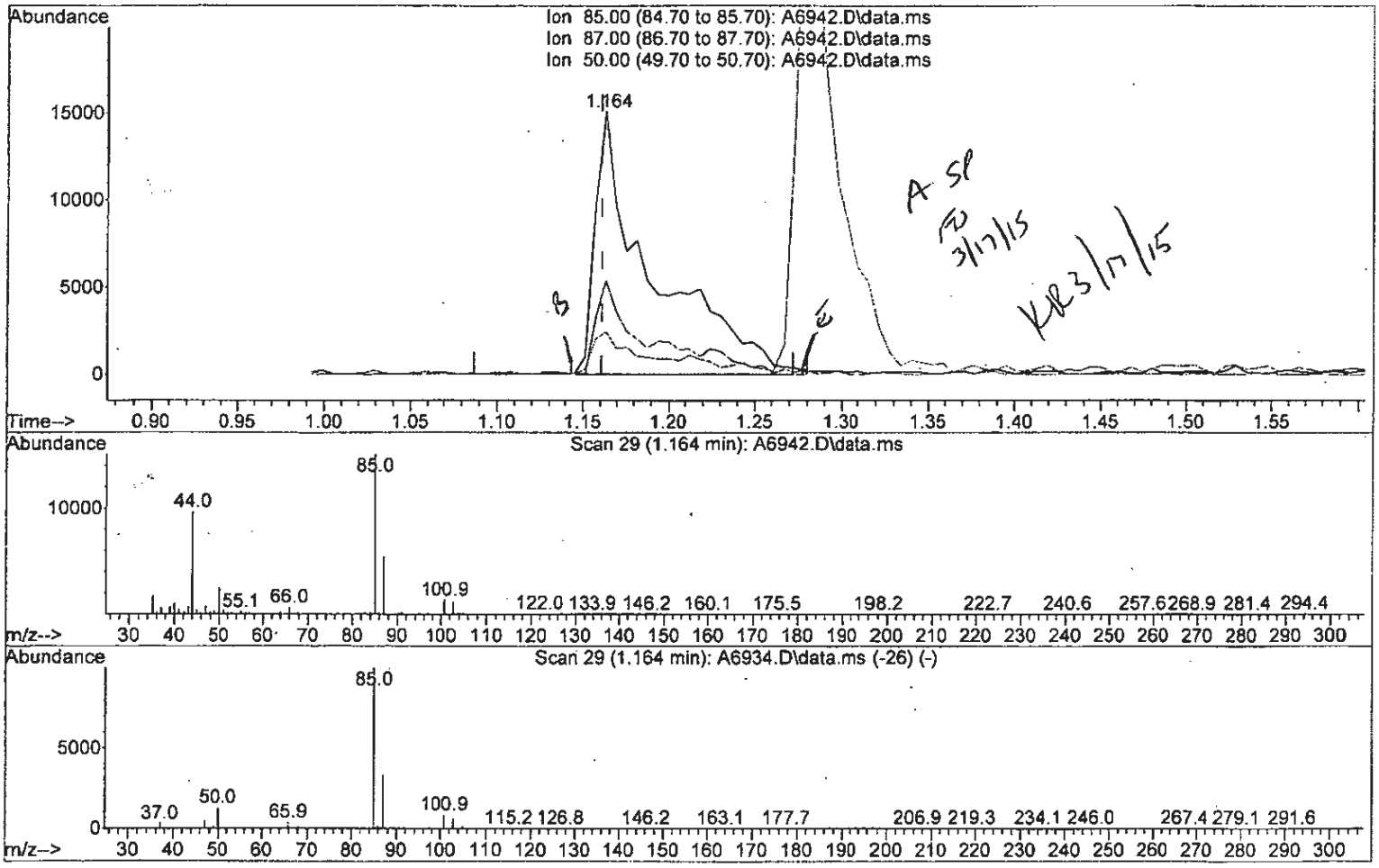
response 32634

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	35.65
50.00	15.00	16.13
0.00	0.00	0.00

00192

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6942.D
Acq On : 16 Mar 2015 7:16 pm
Operator : F. NAEGLER
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 19:31:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6942.D\data.ms

(2) Dichlorodifluoromethane (P)

1.164min (+0.002) 4.47 ug/L m

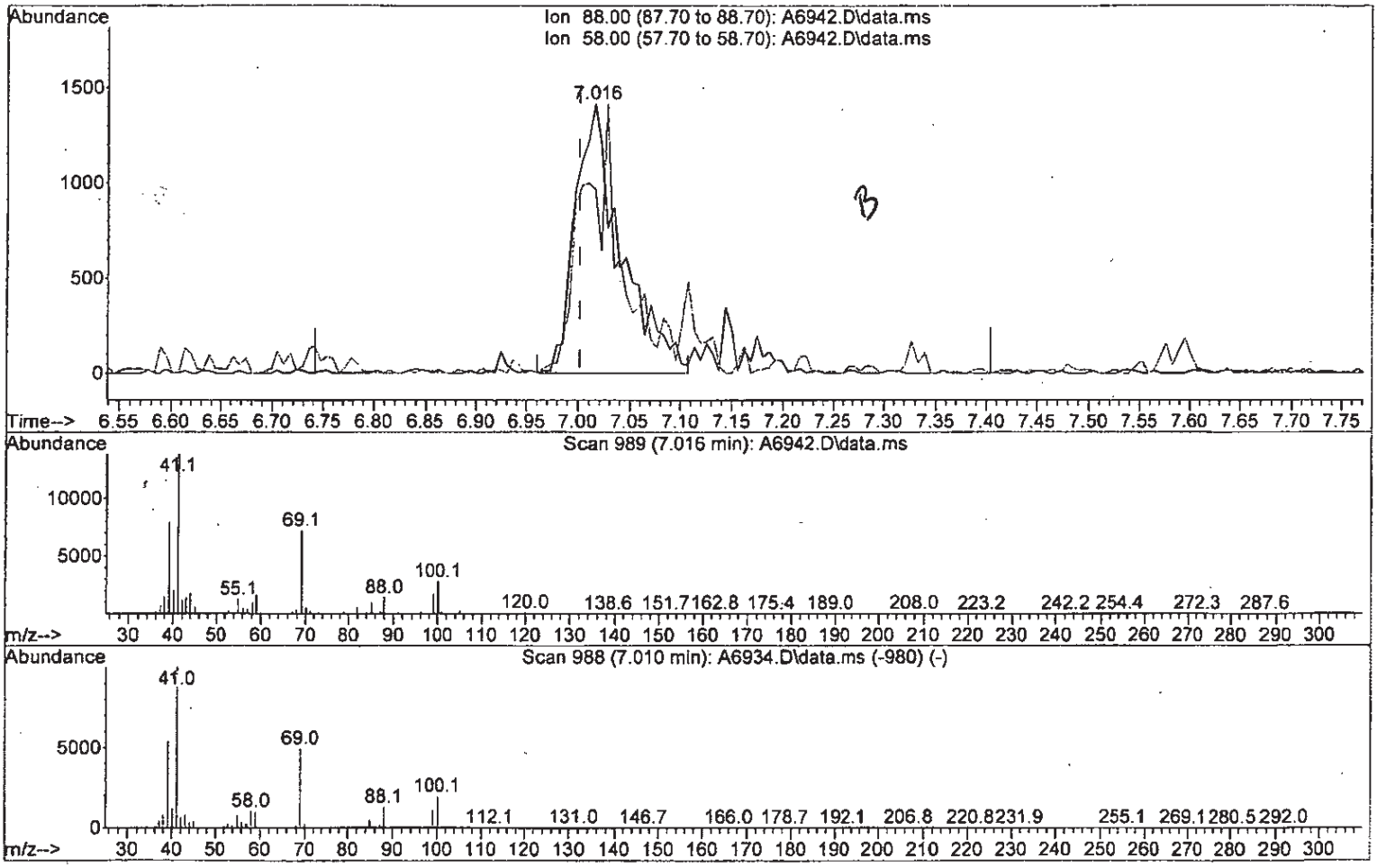
response 34589

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	35.65
50.00	15.00	16.13
0.00	0.00	0.00

00153

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6942.D
Acq On : 16 Mar 2015 7:16 pm
Operator : F. NAEGLER
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 19:31:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6942.D\data.ms

(57) 1,4-Dioxane

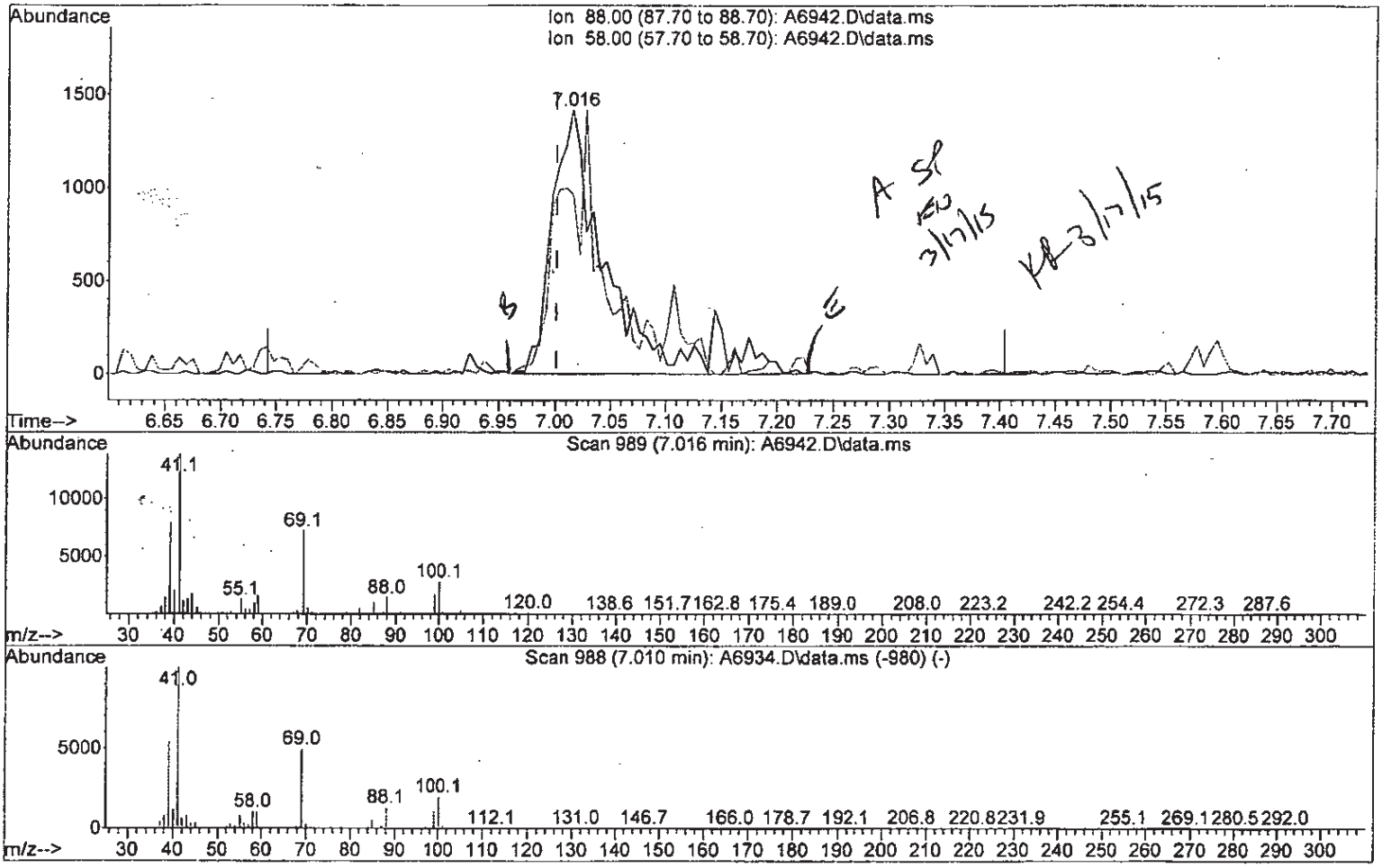
7.016min (+0.015) 106.93 ug/L

response 4349

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	68.03
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6942.D
Acq On : 16 Mar 2015 7:16 pm
Operator : F. NAEGLER
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 19:31:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6942.D\data.ms

(57) 1,4-Dioxane

7.016min (+0.015) 123.20 ug/L m

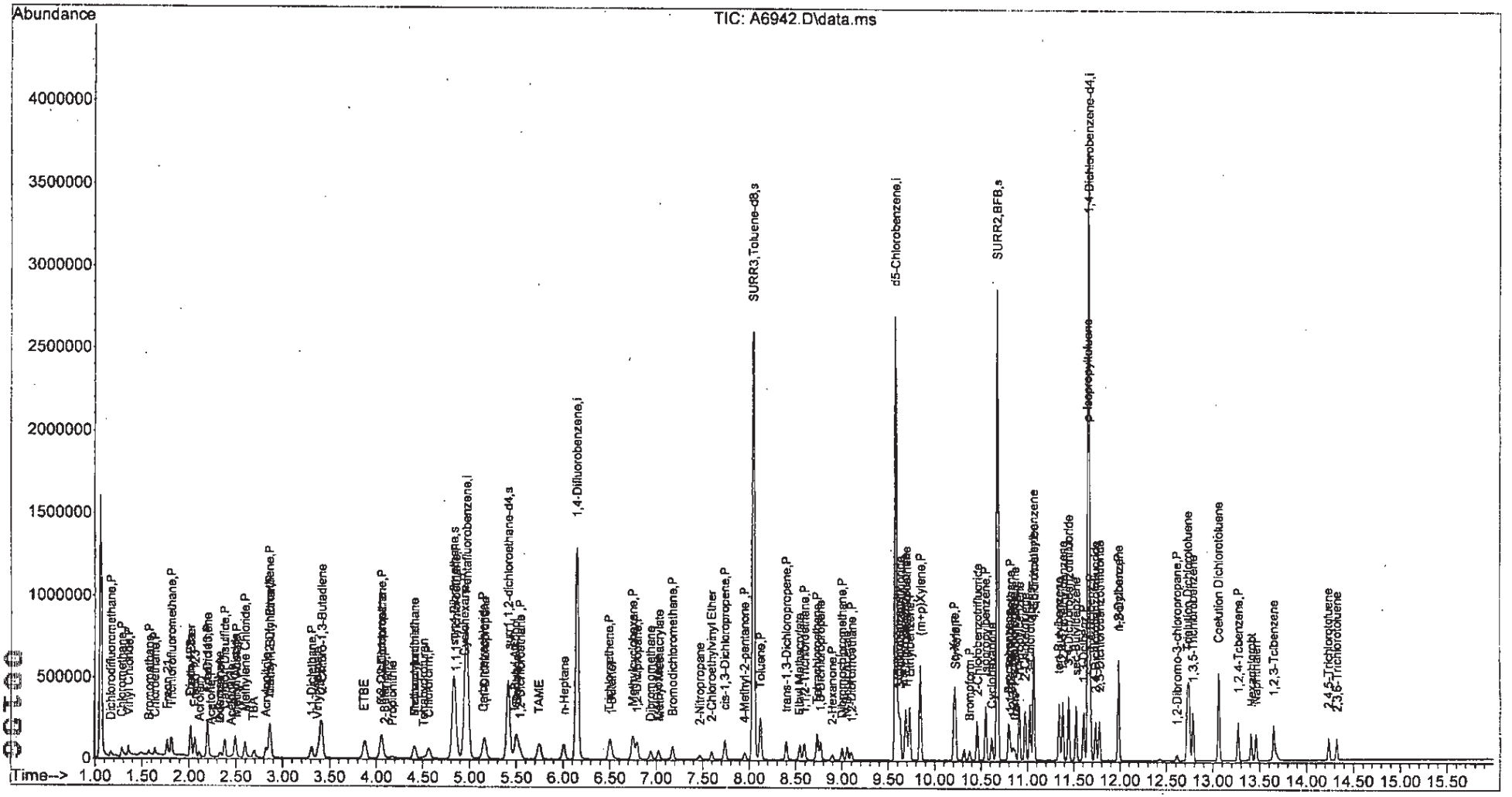
response 5011

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	68.03
0.00	0.00	0.00
0.00	0.00	0.00

00199

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6942.D
Acq On : 16 Mar 2015 7:16 pm
Operator : F. NAEGLER
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 10:37:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6943.D
Acq On : 16 Mar 2015 7:46 pm
Operator : F. NAEGLER
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 20:01:29 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

FD 3/17/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.968	168	845091	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.150	114	1243511	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.577	117	1222725	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.662	152	731284	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	4.834	113	512721	67.95	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	135.90%#			
46) surr1,1,2-dichloroetha...	5.413	65	540952	71.23	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery =	142.46%#			
64) SURR3,Toluene-d8	8.046	98	1984311	72.39	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	144.78%#			
69) SURR2,BFB	10.674	95	852866	74.55	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	149.10%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.164	85	159966	19.96	ug/L		99
3) Chloromethane	1.279	50	187537	12.44	ug/L		90
4) Vinyl Chloride	1.353	62	179909	17.27	ug/L		96
5) Bromomethane	1.572	94	60970	13.50	ug/L		98
6) Chloroethane	1.639	64	102691	21.40	ug/L		95
7) Freon 21	1.767	67	305163	23.97	ug/L		98
8) Trichlorofluoromethane	1.816	101	222539	22.39	ug/L		99
9) Diethyl Ether	2.017	59	121590	20.28	ug/L		99
10) Freon 123a	2.017	67	183248	23.13	ug/L		91
11) Freon 123	2.060	83	208811	26.31	ug/L		79
12) Acrolein	2.109	56	88455	99.53	ug/L		95
13) 1,1-Diclethene	2.194	96	121830	23.43	ug/L		93
14) Freon 113	2.194	101	134653	23.24	ug/L		93
15) Acetone	2.224	43	38217	20.71	ug/L		95
16) 2-Propanol	2.328	45	145850	419.37	ug/L		90
17) Iodomethane	2.322	142	52176	7.17	ug/L		89
18) Carbon Disulfide	2.377	76	493099	26.57	ug/L		99
19) Acetonitrile	2.462	40	26088	91.64	ug/L		94
20) Allyl Chloride	2.493	76	76368	22.88	ug/L	#	62
21) Methyl Acetate	2.505	43	89247	17.24	ug/L		95
22) Methylene Chloride	2.596	84	141159	24.15	ug/L		94
23) TBA	2.688	59	228139	532.74	ug/L		88
24) Acrylonitrile	2.822	53	206961	92.12	ug/L		96
25) Methyl-t-Butyl Ether	2.864	73	374013	27.38	ug/L		94
26) trans-1,2-Dichloroethene	2.864	96	135006	23.51	ug/L		100
27) 1,1-Diclethane	3.310	63	264895	19.03	ug/L		99
28) Vinyl Acetate	3.377	86	25354	30.25	ug/L	#	54
29) DIPE	3.407	45	528689	14.72	ug/L	#	79
30) 2-Chloro-1,3-Butadiene	3.419	53	330484	19.90	ug/L		98
31) ETBE	3.876	59	450936	18.98	ug/L		99
32) 2,2-Dichloropropane	4.053	77	210304	25.01	ug/L		98
33) cis-1,2-Dichloroethene	4.059	96	154316	21.80	ug/L		97
34) 2-Butanone	4.090	43	54038	18.64	ug/L		98
35) Propionitrile	4.163	54	74820	102.01	ug/L		96

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6943.D
Acq On : 16 Mar 2015 7:46 pm
Operator : F. NAEGLER
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 20:01:29 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	4.413	130	90643	20.25	ug/L	#	89
37) Methacrylonitrile	4.401	67	43195	25.46	ug/L		89
38) Tetrahydrofuran	4.504	42	34490	18.38	ug/L		85
39) Chloroform	4.565	83	249465	21.70	ug/L		98
40) 1,1,1-Trichloroethane	4.852	97	223569	23.13	ug/L		96
42) Cyclohexane	4.956	41	195547	18.13	ug/L		92
44) Carbontetrachloride	5.157	121	64194	24.53	ug/L		85
45) 1,1-Dichloropropene	5.163	75	190077	20.58	ug/L		97
47) Benzene	5.504	78	579680	21.37	ug/L		94
48) 1,2-Dichloroethane	5.541	62	197514	20.57	ug/L		93
49) Iso-Butyl Alcohol	5.486	43	107998	466.58	ug/L		84
50) TAME	5.748	73	354086	23.68	ug/L		95
51) n-Heptane	6.010	43	214176	17.12	ug/L		94
52) 1-Butanol	6.516	56	147440	1625.67	ug/L		93
53) Trichloroethene	6.498	130	158753	20.65	ug/L		96
54) Methylcyclohexane	6.748	55	229966	18.92	ug/L		99
55) 1,2-Diclpropane	6.791	63	157865	18.64	ug/L		93
56) Dibromomethane	6.943	93	78957	21.63	ug/L		95
57) 1,4-Dioxane	7.004	88	20223	487.40	ug/L		81
58) Methyl Methacrylate	7.022	69	75679	28.69	ug/L	#	87
59) Bromodichloromethane	7.175	83	192807	22.61	ug/L		99
60) 2-Nitropropane	7.467	41	67407	62.04	ug/L		94
61) 2-Chloroethylvinyl Ether	7.595	63	80170	20.77	ug/L		91
62) cis-1,3-Dichloropropene	7.735	75	233188	23.84	ug/L		95
63) 4-Methyl-2-pentanone	7.949	43	125203	19.56	ug/L		95
65) Toluene	8.120	91	642416	22.19	ug/L		98
66) trans-1,3-Dichloropropene	8.400	75	203117	27.47	ug/L		99
67) Ethyl Methacrylate	8.546	69	156988	28.97	ug/L		85
68) 1,1,2-Trichloroethane	8.595	97	113461	22.67	ug/L		97
71) Tetrachloroethene	8.729	164	128351	19.88	ug/L		95
72) 2-Hexanone	8.894	43	87295	19.00	ug/L		98
73) 1,3-Dichloropropane	8.766	76	191583	21.91	ug/L		90
74) Dibromochloromethane	8.997	129	143354	22.31	ug/L		99
75) N-Butyl Acetate	9.052	43	222976	19.70	ug/L		95
76) 1,2-Dibromoethane	9.101	107	112730	22.38	ug/L		97
77) 3-Chlorobenzotrifluoride	9.625	180	264515	20.33	ug/L		98
78) Chlorobenzene	9.607	112	436950	20.56	ug/L		99
79) 4-Chlorobenzotrifluoride	9.680	180	236278	19.57	ug/L		98
80) 1,1,1,2-Tetrachloroethane	9.692	131	162060	22.42	ug/L		96
81) Ethylbenzene	9.729	106	233029	21.52	ug/L		91
82) (m+p)Xylene	9.845	106	571570	44.70	ug/L		88
83) o-Xylene	10.211	106	276784	21.41	ug/L		95
84) Styrene	10.223	104	487732	22.76	ug/L		98
85) Bromoform	10.375	173	90319	25.78	ug/L		100
86) 2-Chlorobenzotrifluoride	10.461	180	254506	19.41	ug/L		99
87) Isopropylbenzene	10.546	105	720395	22.61	ug/L		99
88) Cyclohexanone	10.613	55	197612	437.16	ug/L		96
89) trans-1,4-Dichloro-2-B...	10.863	53	46116	20.51	ug/L		97
91) 1,1,2,2-Tetrachloroethane	10.814	83	138538	21.01	ug/L		100
92) Bromobenzene	10.796	156	191559	19.66	ug/L		98
93) 1,2,3-Trichloropropane	10.845	110	39853	23.26	ug/L	#	90

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6943.D
Acq On : 16 Mar 2015 7:46 pm
Operator : F. NAEGLER
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 20:01:29 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

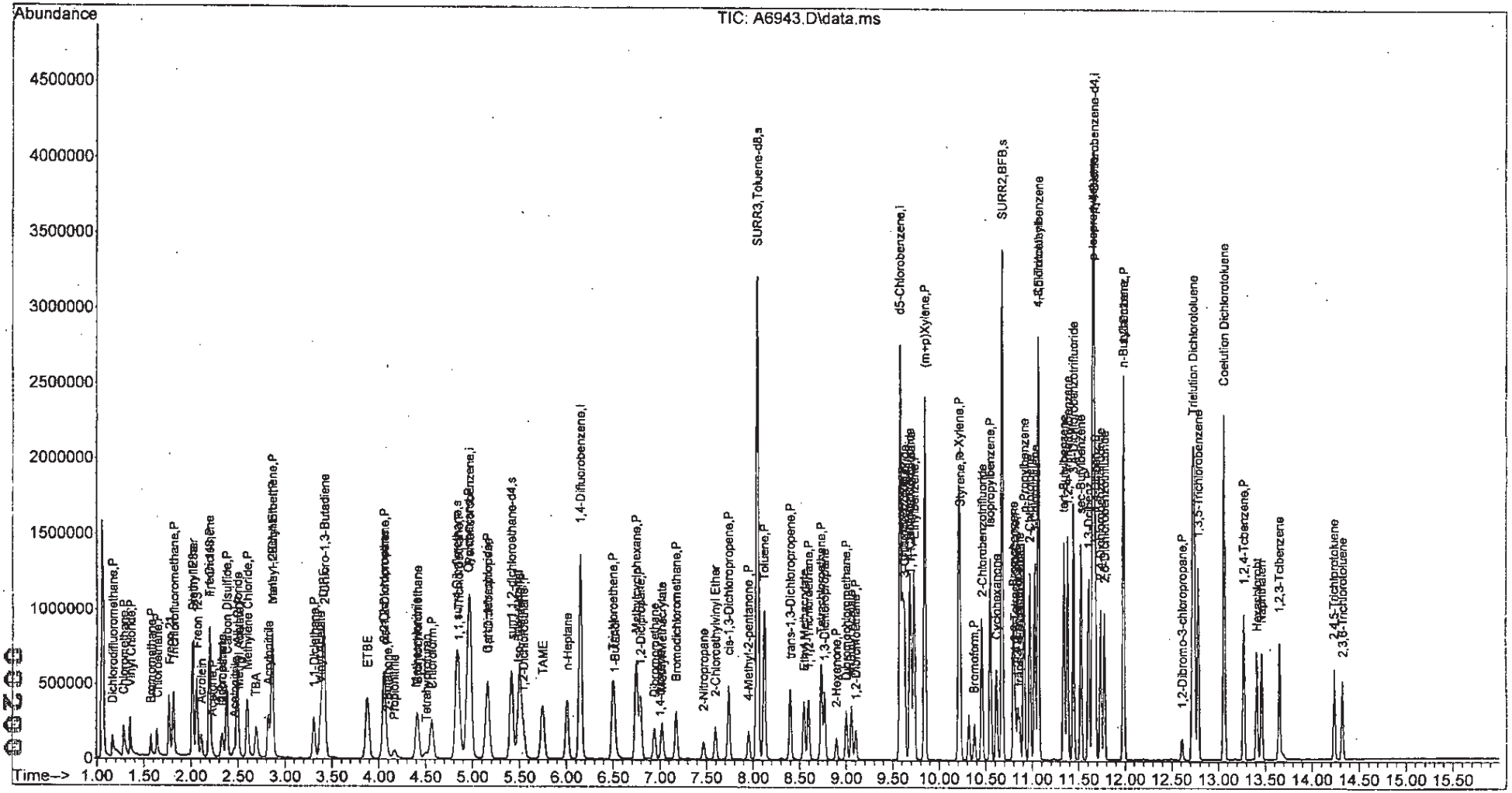
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	10.912	91	863355	22.72	ug/L	98
95)	2-Chlorotoluene	10.973	91	506006	21.40	ug/L	98
96)	3-Chlorotoluene	11.028	91	569660	22.22	ug/L	99
97)	4-Chlorotoluene	11.064	91	621533	21.77	ug/L	98
98)	1,3,5-Trimethylbenzene	11.064	105	635226	22.66	ug/L	99
99)	tert-Butylbenzene	11.338	119	540731	22.69	ug/L	98
100)	1,2,4-Trimethylbenzene	11.381	105	651602	23.10	ug/L	95
101)	3,4-Dichlorobenzotrifl...	11.442	214	196905	18.66	ug/L	98
102)	sec-Butylbenzene	11.521	105	766212	23.01	ug/L	98
103)	p-Isopropyltoluene	11.649	119	678112	23.29	ug/L	97
104)	1,3-Dclbenz	11.607	146	392332	20.25	ug/L	98
105)	1,4-Dclbenz	11.680	146	398581	20.03	ug/L	96
106)	2,4-Dichlorobenzotrifl...	11.735	214	183726	19.72	ug/L	99
107)	2,5-Dichlorobenzotrifl...	11.777	214	213170	19.33	ug/L	94
108)	n-Butylbenzene	11.979	91	613096	24.40	ug/L	97
109)	1,2-Dclbenz	11.985	146	365990	20.87	ug/L	98
110)	1,2-Dibromo-3-chloropr...	12.613	157	27750	23.81	ug/L	98
111)	Trielution Dichlorotol...	12.728	125	1047532	67.40	ug/L	98
112)	1,3,5-Trichlorobenzene	12.783	180	289910	19.71	ug/L	96
113)	Coelution Dichlorotoluene	13.058	125	731575	45.53	ug/L	96
114)	1,2,4-Tcbenzene	13.271	180	231062	19.11	ug/L	98
115)	Hexachlorobt	13.411	225	105020	18.61	ug/L	98
116)	Naphthalen	13.460	128	411253	21.92	ug/L	98
117)	1,2,3-Tclbenzene	13.649	180	176230	18.20	ug/L	97
118)	2,4,5-Trichlorotoluene	14.234	159	119471	16.72	ug/L	99
119)	2,3,6-Trichlorotoluene	14.326	159	98933	13.35	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6943.D
Acq On : 16 Mar 2015 7:46 pm
Operator : F. NAEGLER
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 20:01:29 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6944.D
Acq On : 16 Mar 2015 8:15 pm
Operator : F. NAEGLER
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 20:30:59 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

FU 3/17/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.974	168	857497	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.151	114	1265098	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.577	117	1260206	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.662	152	758313	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	4.834	113	385735	50.25	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.50%				
46) surr1,1,2-dichloroetha...	5.413	65	399311	51.68	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 103.36%				
64) SURR3,Toluene-d8	8.046	98	1508689	54.10	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.20%				
69) SURR2,BFB	10.674	95	668630	57.45	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 114.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.164	85	444522	54.67	ug/L		98
3) Chloromethane	1.280	50	527779	34.51	ug/L		99
4) Vinyl Chloride	1.353	62	523022	49.47	ug/L		100
5) Bromomethane	1.572	94	184216	40.19	ug/L		97
6) Chloroethane	1.639	64	282142	57.95	ug/L		95
7) Freon 21	1.767	67	761727	58.97	ug/L		95
8) Trichlorofluoromethane	1.810	101	623431	61.83	ug/L		99
9) Diethyl Ether	2.017	59	315208	51.82	ug/L		95
10) Freon 123a	2.017	67	451276	56.13	ug/L		99
11) Freon 123	2.060	83	512903	63.70	ug/L		79
12) Acrolein	2.109	56	228802	253.72	ug/L		99
13) 1,1-Diclethene	2.194	96	346439	65.67	ug/L		97
14) Freon 113	2.194	101	377015	64.14	ug/L		92
15) Acetone	2.224	43	104797	55.97	ug/L		93
16) 2-Propanol	2.328	45	384328	1089.10	ug/L		97
17) Iodomethane	2.322	142	263785	32.63	ug/L		96
18) Carbon Disulfide	2.377	76	1239749	65.84	ug/L		99
19) Acetonitrile	2.450	40	70491	244.04	ug/L		94
20) Allyl Chloride	2.493	76	218574	64.53	ug/L	#	71
21) Methyl Acetate	2.505	43	220321	41.95	ug/L		95
22) Methylene Chloride	2.596	84	388892	65.56	ug/L		93
23) TBA	2.694	59	592062	1362.55	ug/L		92
24) Acrylonitrile	2.822	53	550544	241.50	ug/L		99
25) Methyl-t-Butyl Ether	2.865	73	1022076	73.74	ug/L		97
26) trans-1,2-Dichloroethene	2.858	96	395143	67.81	ug/L		94
27) 1,1-Diclethane	3.304	63	740983	52.47	ug/L		99
28) Vinyl Acetate	3.377	86	67009	78.78	ug/L	#	73
29) DIPE	3.407	45	1594562	43.75	ug/L	#	79
30) 2-Chloro-1,3-Butadiene	3.419	53	843478	50.06	ug/L		99
31) ETBE	3.877	59	1340946	55.63	ug/L		99
32) 2,2-Dichloropropane	4.053	77	583133	68.35	ug/L		99
33) cis-1,2-Dichloroethene	4.053	96	424215	59.05	ug/L		96
34) 2-Butanone	4.090	43	139647	47.48	ug/L		97
35) Propionitrile	4.163	54	195057	250.74	ug/L		95

00201

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6944.D
Acq On : 16 Mar 2015 8:15 pm
Operator : F. NAEGLER
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 20:30:59 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Bromochloromethane	4.413	130	250861	55.22	ug/L	90
37) Methacrylonitrile	4.407	67	110964	64.46	ug/L	93
38) Tetrahydrofuran	4.492	42	89459	46.97	ug/L	91
39) Chloroform	4.559	83	691834	59.31	ug/L	98
40) 1,1,1-Trichloroethane	4.858	97	627509	63.97	ug/L	95
42) Cyclohexane	4.956	41	488671	44.54	ug/L	99
44) Carbontetrachloride	5.151	121	178468	67.03	ug/L	100
45) 1,1-Dichloropropene	5.163	75	535281	56.96	ug/L	96
47) Benzene	5.504	78	1635072	59.24	ug/L	94
48) 1,2-Dichloroethane	5.541	62	541566	55.43	ug/L	95
49) Iso-Butyl Alcohol	5.486	43	287895	1222.55	ug/L	96
50) TAME	5.742	73	1046695	68.81	ug/L	95
51) n-Heptane	6.010	43	548093	43.06	ug/L	93
52) 1-Butanol	6.516	56	406958	3780.41	ug/L	90
53) Trichloroethene	6.498	130	444734	56.86	ug/L	96
54) Methylcyclohexane	6.748	55	570246	46.11	ug/L	95
55) 1,2-Diclpropane	6.791	63	447087	51.90	ug/L	97
56) Dibromomethane	6.937	93	217736	58.64	ug/L	99
57) 1,4-Dioxane	7.010	88	52190	1236.39	ug/L	88
58) Methyl Methacrylate	7.022	69	206495	70.35	ug/L	87
59) Bromodichloromethane	7.175	83	535966	61.78	ug/L	98
60) 2-Nitropropane	7.467	41	180768	163.54	ug/L	100
61) 2-Chloroethylvinyl Ether	7.595	63	210334	53.56	ug/L	98
62) cis-1,3-Dichloropropene	7.736	75	654485	65.76	ug/L	96
63) 4-Methyl-2-pentanone	7.949	43	321062	49.30	ug/L	98
65) Toluene	8.120	91	1778014	60.37	ug/L	98
66) trans-1,3-Dichloropropene	8.400	75	569967	68.58	ug/L	99
67) Ethyl Methacrylate	8.546	69	437207	71.24	ug/L	86
68) 1,1,2-Trichloroethane	8.595	97	310081	60.89	ug/L	96
71) Tetrachloroethene	8.729	164	360074	54.11	ug/L	99
72) 2-Hexanone	8.894	43	224284	47.37	ug/L	99
73) 1,3-Dichloropropane	8.766	76	527103	58.50	ug/L	92
74) Dibromochloromethane	8.998	129	412724	62.31	ug/L	98
75) N-Butyl Acetate	9.052	43	577760	49.51	ug/L	98
76) 1,2-Dibromoethane	9.101	107	306584	59.06	ug/L	98
77) 3-Chlorobenzotrifluoride	9.625	180	693466	51.72	ug/L	97
78) Chlorobenzene	9.607	112	1239446	56.60	ug/L	98
79) 4-Chlorobenzotrifluoride	9.680	180	626574	50.36	ug/L	96
80) 1,1,1,2-Tetrachloroethane	9.693	131	455399	61.14	ug/L	99
81) Ethylbenzene	9.729	106	653923	58.60	ug/L	97
82) (m+p)Xylene	9.845	106	1628404	123.55	ug/L	90
83) o-Xylene	10.211	106	785325	58.93	ug/L	97
84) Styrene	10.223	104	1415304	64.09	ug/L	98
85) Bromoform	10.375	173	259940	65.00	ug/L	100
86) 2-Chlorobenzotrifluoride	10.461	180	678972	50.25	ug/L	96
87) Isopropylbenzene	10.552	105	2050289	62.43	ug/L	98
88) Cyclohexanone	10.613	55	490085	1051.93	ug/L	98
89) trans-1,4-Dichloro-2-B...	10.863	53	126815	54.72	ug/L	96
91) 1,1,2,2-Tetrachloroethane	10.814	83	384721	56.25	ug/L	99
92) Bromobenzene	10.796	156	550353	54.46	ug/L	97
93) 1,2,3-Trichloropropane	10.845	110	108857	61.28	ug/L	90

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6944.D
Acq On : 16 Mar 2015 8:15 pm
Operator : F. NAEGLER
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

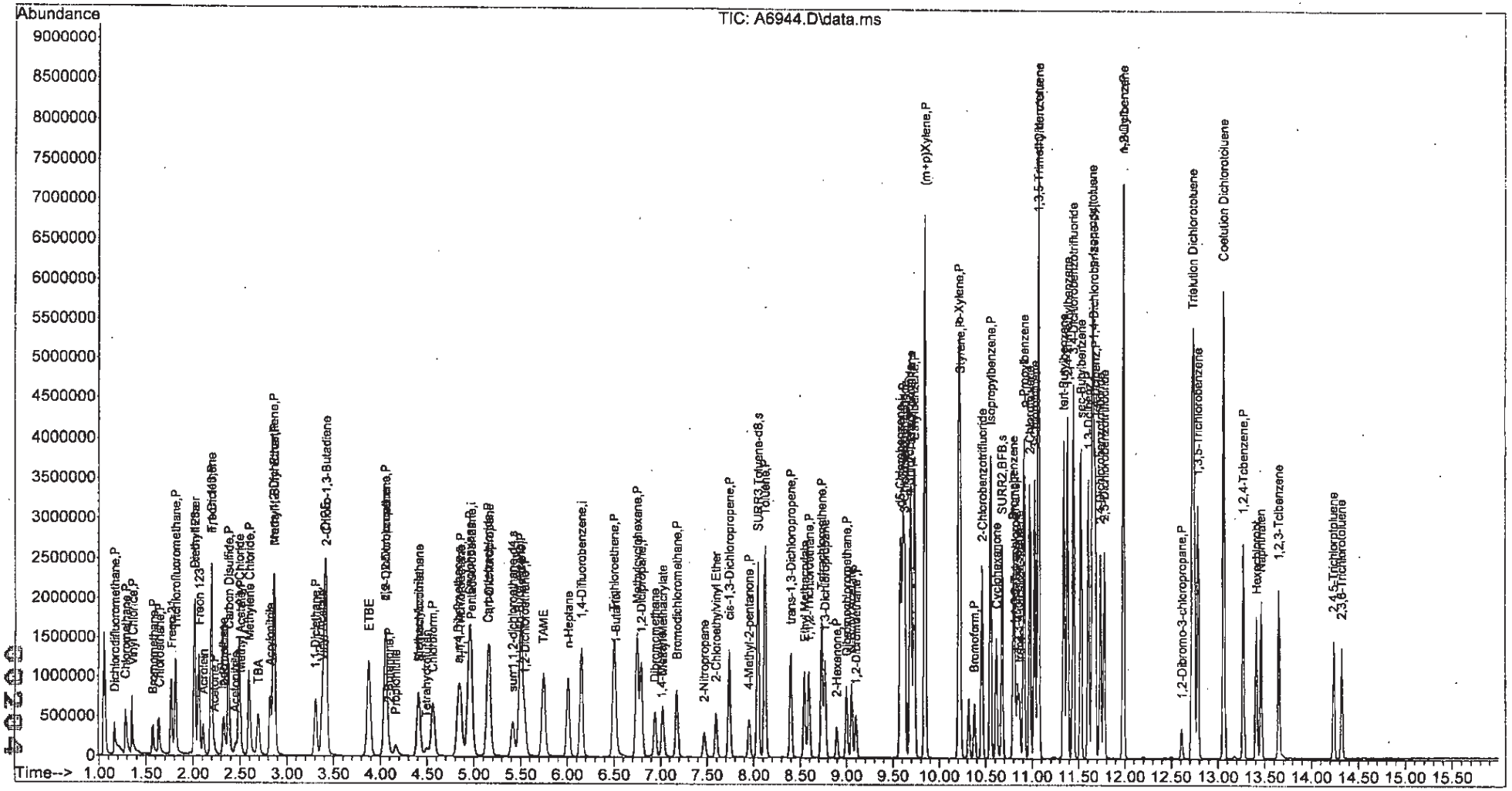
Quant Time: Mar 16 20:30:59 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	10.912	91	2419505	61.41	ug/L	99
95)	2-Chlorotoluene	10.973	91	1459018	59.51	ug/L	98
96)	3-Chlorotoluene	11.028	91	1499732	56.42	ug/L	99
97)	4-Chlorotoluene	11.070	91	1767264	59.70	ug/L	95
98)	1,3,5-Trimethylbenzene	11.064	105	1795203	61.76	ug/L	99
99)	tert-Butylbenzene	11.339	119	1513117	61.23	ug/L	98
100)	1,2,4-Trimethylbenzene	11.381	105	1821253	62.26	ug/L	96
101)	3,4-Dichlorobenzotrifl...	11.442	214	524279	47.92	ug/L	98
102)	sec-Butylbenzene	11.528	105	2139731	61.97	ug/L	98
103)	p-Isopropyltoluene	11.649	119	1879454	62.25	ug/L	98
104)	1,3-Dclbenz	11.607	146	1107461	55.11	ug/L	96
105)	1,4-Dclbenz	11.680	146	1116660	54.13	ug/L	98
106)	2,4-Dichlorobenzotrifl...	11.735	214	477813	49.45	ug/L	98
107)	2,5-Dichlorobenzotrifl...	11.777	214	544152	47.58	ug/L	97
108)	n-Butylbenzene	11.985	91	1645967	63.17	ug/L	96
109)	1,2-Dclbenz	11.985	146	1025835	56.41	ug/L	99
110)	1,2-Dibromo-3-chloropr...	12.613	157	78842	65.24	ug/L	93
111)	Trielution Dichlorotol...	12.728	125	2742395	170.16	ug/L	98
112)	1,3,5-Trichlorobenzene	12.783	180	747240	49.00	ug/L	97
113)	Coelution Dichlorotoluene	13.058	125	1930947	115.88	ug/L	97
114)	1,2,4-Tcbenzene	13.271	180	643050	51.30	ug/L	96
115)	Hexachlorobt	13.411	225	269087	45.99	ug/L	99
116)	Naphthalen	13.460	128	1164180	59.83	ug/L	100
117)	1,2,3-Tclbenzene	13.649	180	486847	48.49	ug/L	97
118)	2,4,5-Trichlorotoluene	14.234	159	317710	42.88	ug/L	96
119)	2,3,6-Trichlorotoluene	14.320	159	258514	33.64	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6944.D
Acq On : 16 Mar 2015 8:15 pm
Operator : F. NAEGLER
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 20:30:59 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6945.D
Acq On : 16 Mar 2015 8:45 pm
Operator : F. NAEGLER
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 17 10:42:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

FD 3/17/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.968	168	872601	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.150	114	1286210	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.577	117	1261708	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.662	152	796121	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	4.834	113	777256	99.59	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 199.18%#				
46) surr1,1,2-dichloroetha...	5.413	65	809096	103.00	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 206.00%#				
64) SURR3,Toluene-d8	8.046	98	3006289	106.03	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 212.06%#				
69) SURR2,BFB	10.674	95	1305225	110.31	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 220.62%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.164	85	892974	107.92	ug/L		98
3) Chloromethane	1.279	50	1053434	67.68	ug/L		100
4) Vinyl Chloride	1.353	62	1031902	95.92	ug/L		98
5) Bromomethane	1.566	94	397625	85.25	ug/L		98
6) Chloroethane	1.633	64	553051	111.63	ug/L		97
7) Freon 21	1.761	67	1505917	114.57	ug/L		96
8) Trichlorofluoromethane	1.810	101	1238107	120.66	ug/L		99
9) Diethyl Ether	2.011	59	634082	102.43	ug/L		94
10) Freon 123a	2.011	67	897941	109.75	ug/L		98
11) Freon 123	2.060	83	1015499m	123.93	ug/L		
12) Acrolein	2.108	56	470242	512.42	ug/L		97
13) 1,1-Diclethene	2.194	96	686174	127.81	ug/L		97
14) Freon 113	2.194	101	745465	124.63	ug/L		88
15) Acetone	2.224	43	213092	111.83	ug/L		97
16) 2-Propanol	2.328	45	780040	2172.19	ug/L		95
17) Iodomethane	2.322	142	742579	80.02	ug/L		97
18) Carbon Disulfide	2.377	76	2449757	127.84	ug/L		100
19) Acetonitrile	2.450	40	145633	495.45	ug/L		95
20) Allyl Chloride	2.486	76	434231	125.98	ug/L	#	68
21) Methyl Acetate	2.505	43	452779	84.72	ug/L		95
22) Methylene Chloride	2.596	84	759955	125.91	ug/L		93
23) TBA	2.694	59	1188383	2687.57	ug/L		90
24) Acrylonitrile	2.822	53	1081104	466.03	ug/L		98
25) Methyl-t-Butyl Ether	2.864	73	2011152	142.59	ug/L		97
26) trans-1,2-Dichloroethene	2.858	96	767168	129.38	ug/L		96
27) 1,1-Diclethane	3.309	63	1455575	101.29	ug/L		98
28) Vinyl Acetate	3.377	86	131749	152.21	ug/L	#	63
29) DIPE	3.407	45	3186837	85.93	ug/L	#	78
30) 2-Chloro-1,3-Butadiene	3.419	53	1654409	96.50	ug/L		97
31) ETBE	3.876	59	2689449	109.65	ug/L		99
32) 2,2-Dichloropropane	4.053	77	1111031	127.97	ug/L		99
33) cis-1,2-Dichloroethene	4.053	96	845395	115.65	ug/L		100
34) 2-Butanone	4.084	43	280359	93.68	ug/L		97
35) Propionitrile	4.163	54	389382	466.26	ug/L		99

00209

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6945.D
Acq On : 16 Mar 2015 8:45 pm
Operator : F. NAEGLER
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 17 10:42:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	4.413	130	476454	103.07	ug/L		92
37) Methacrylonitrile	4.407	67	218586	124.78	ug/L	#	80
38) Tetrahydrofuran	4.492	42	174102	89.84	ug/L		89
39) Chloroform	4.559	83	1379549	116.22	ug/L		99
40) 1,1,1-Trichloroethane	4.858	97	1243578	124.58	ug/L		98
42) Cyclohexane	4.949	41	960906	86.15	ug/L		99
44) Carbontetrachloride	5.157	121	355782	131.44	ug/L		90
45) 1,1-Dichloropropene	5.163	75	1053011	110.22	ug/L		97
47) Benzene	5.504	78	3189381	113.65	ug/L		95
48) 1,2-Dichloroethane	5.541	62	1052507	105.96	ug/L		97
49) Iso-Butyl Alcohol	5.486	43	559132	2335.39	ug/L		97
50) TAME	5.748	73	2103549	136.01	ug/L		95
51) n-Heptane	6.010	43	1060801	81.97	ug/L		95
52) 1-Butanol	6.516	56	842029	6544.39	ug/L		92
53) Trichloroethene	6.498	130	885382	111.33	ug/L		96
54) Methylcyclohexane	6.748	55	1144617	91.04	ug/L		94
55) 1,2-Diclpropane	6.790	63	874825	99.89	ug/L		95
56) Dibromomethane	6.937	93	419678	111.17	ug/L		99
57) 1,4-Dioxane	7.004	88	105270	2452.93	ug/L		78
58) Methyl Methacrylate	7.022	69	407259	123.53	ug/L		88
59) Bromodichloromèthane	7.175	83	1064634	120.71	ug/L		99
60) 2-Nitropropane	7.467	41	363635	323.58	ug/L		97
61) 2-Chloroethylvinyl Ether	7.595	63	425407	106.54	ug/L		94
62) cis-1,3-Dichloropropene	7.735	75	1289967	127.48	ug/L		95
63) 4-Methyl-2-pentanone	7.949	43	642189	97.00	ug/L		98
65) Toluene	8.120	91	3509757	117.21	ug/L		100
66) trans-1,3-Dichloropropene	8.400	75	1122807	119.12	ug/L		97
67) Ethyl Methacrylate	8.546	69	873326	124.25	ug/L		88
68) 1,1,2-Trichloroethane	8.595	97	621698	120.07	ug/L		95
71) Tetrachloroethene	8.735	164	723975	108.66	ug/L		99
72) 2-Hexanone	8.894	43	448686	94.66	ug/L		97
73) 1,3-Dichloropropane	8.766	76	1049888	116.38	ug/L		92
74) Dibromochloromethane	9.003	129	819628	123.60	ug/L		99
75) N-Butyl Acetate	9.052	43	1175263	100.60	ug/L		97
76) 1,2-Dibromoethane	9.101	107	615141	118.35	ug/L		99
77) 3-Chlorobenzotrifluoride	9.625	180	1386582	103.29	ug/L		99
78) Chlorobenzene	9.607	112	2420343	110.39	ug/L		98
79) 4-Chlorobenzotrifluoride	9.686	180	1251199	100.44	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.698	131	908905	121.88	ug/L		96
81) Ethylbenzene	9.729	106	1307357	117.03	ug/L	#	86
82) (m+p)Xylene	9.845	106	3209275	243.20	ug/L		92
83) o-Xylene	10.211	106	1589913	119.16	ug/L		91
84) Styrene	10.223	104	2823838	127.72	ug/L		99
85) Bromoform	10.375	173	521858	115.89	ug/L		99
86) 2-Chlorobenzotrifluoride	10.461	180	1389334	102.69	ug/L		96
87) Isopropylbenzene	10.552	105	4013127	122.05	ug/L		98
88) Cyclohexanone	10.613	55	914600	1960.78	ug/L		96
89) trans-1,4-Dichloro-2-B...	10.863	53	255581	110.15	ug/L		95
91) 1,1,2,2-Tetrachloroethane	10.814	83	770328	107.29	ug/L		99
92) Bromobenzene	10.796	156	1090773	102.81	ug/L		98
93) 1,2,3-Trichloropropane	10.845	110	216920	116.31	ug/L	#	89

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6945.D
Acq On : 16 Mar 2015 8:45 pm
Operator : F. NAEGLER
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

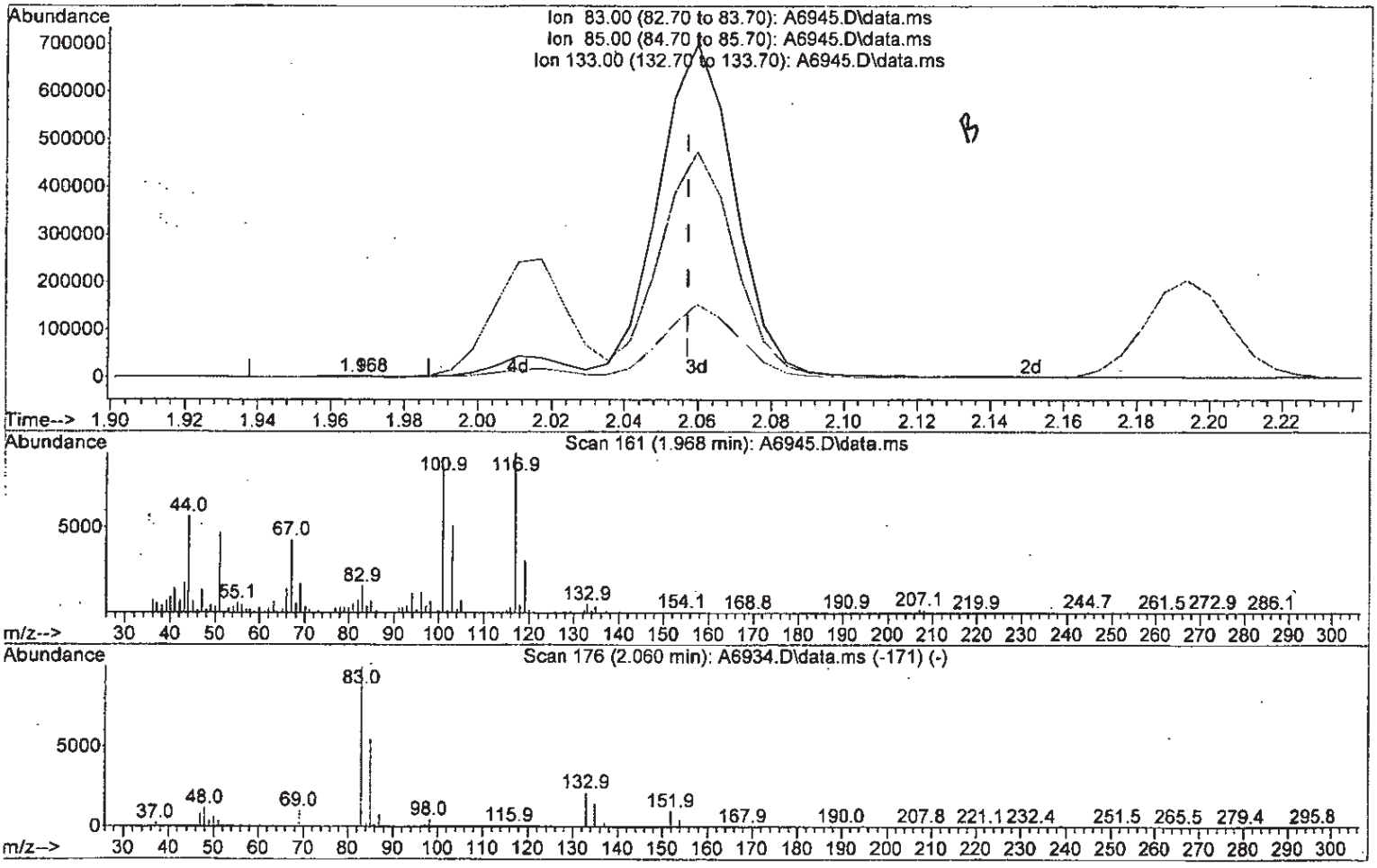
Quant Time: Mar 17 10:42:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	10.912	91	4527765	109.46	ug/L	93
95)	2-Chlorotoluene	10.973	91	2884048	112.04	ug/L	97
96)	3-Chlorotoluene	11.027	91	2953717	105.84	ug/L	98
97)	4-Chlorotoluene	11.070	91	3453798	111.13	ug/L	94
98)	1,3,5-Trimethylbenzene	11.064	105	3514415	115.16	ug/L	96
99)	tert-Butylbenzene	11.338	119	2980101	114.87	ug/L	98
100)	1,2,4-Trimethylbenzene	11.381	105	3547081	115.51	ug/L	91
101)	3,4-Dichlorobenzotrifl...	11.442	214	1054505	91.81	ug/L	98
102)	sec-Butylbenzene	11.527	105	4103734	113.21	ug/L	94
103)	p-Isopropyltoluene	11.649	119	3600669	113.59	ug/L	96
104)	1,3-Dclbenz	11.607	146	2201723	104.37	ug/L	97
105)	1,4-Dclbenz	11.680	146	2226959	102.82	ug/L	100
106)	2,4-Dichlorobenzotrifl...	11.735	214	984078	97.00	ug/L	98
107)	2,5-Dichlorobenzotrifl...	11.777	214	1052058	87.63	ug/L	97
108)	n-Butylbenzene	11.985	91	3176268	116.11	ug/L	95
109)	1,2-Dclbenz	11.985	146	2038898	106.80	ug/L	98
110)	1,2-Dibromo-3-chloropr...	12.613	157	154550	121.82	ug/L	95
111)	Trielution Dichlorotol...	12.734	125	5255010	310.57	ug/L	95
112)	1,3,5-Trichlorobenzene	12.783	180	1439612	89.92	ug/L	98
113)	Coelution Dichlorotoluene	13.064	125	3662661	209.37	ug/L	98
114)	1,2,4-Tcbenzene	13.271	180	1252280	95.15	ug/L	98
115)	Hexachlorobt	13.411	225	514388	83.74	ug/L	97
116)	Naphthalen	13.460	128	2313915	113.27	ug/L	99
117)	1,2,3-Tclbenzene	13.649	180	949814	90.11	ug/L	99
118)	2,4,5-Trichlorotoluene	14.234	159	584690	75.17	ug/L	98
119)	2,3,6-Trichlorotoluene	14.320	159	487305	60.41	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6945.D
Acq On : 16 Mar 2015 8:45 pm
Operator : F. NAEGLER
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 21:00:34 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6945.D\data.ms

(11) Freon 123

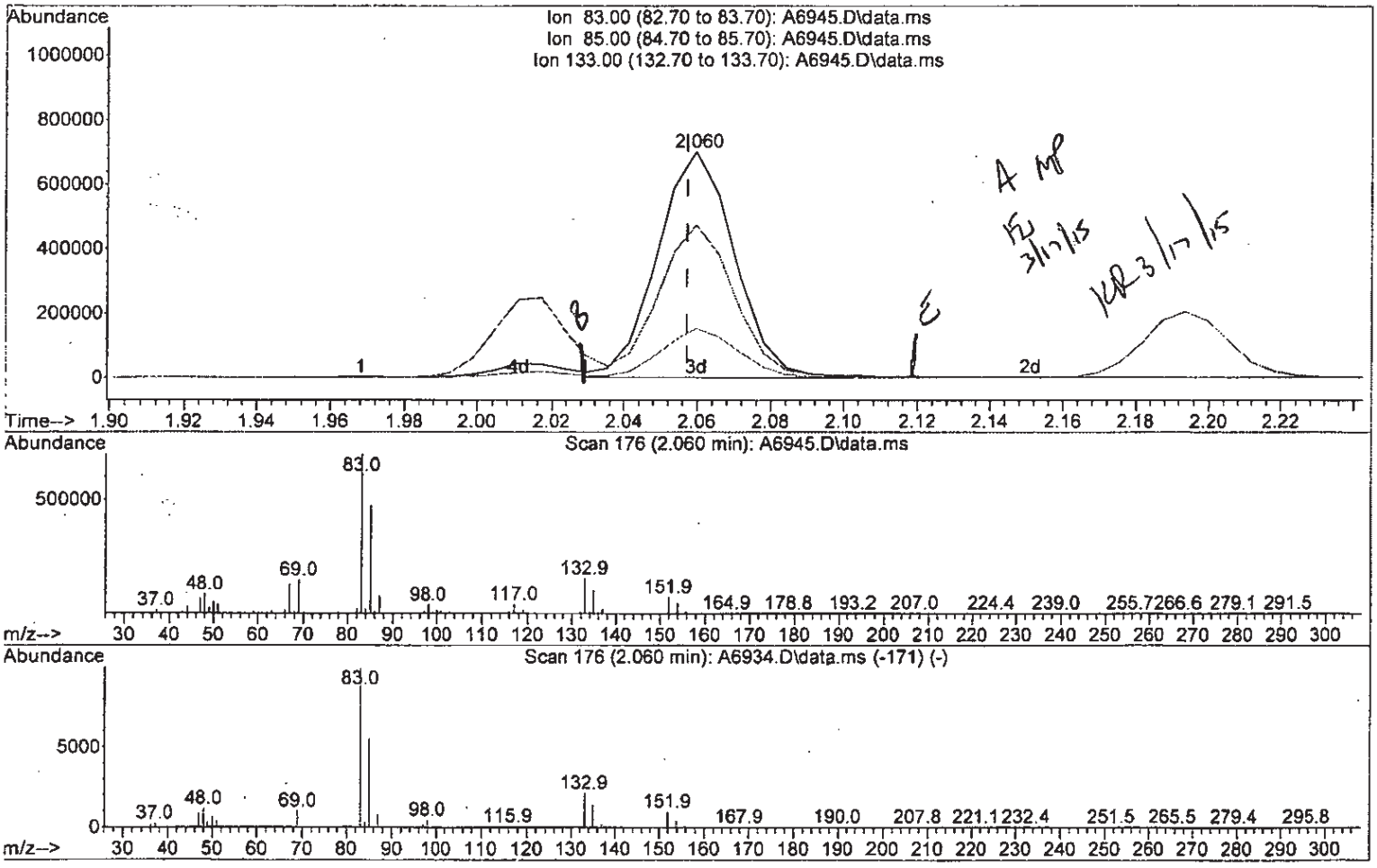
1.968min (-0.089) 0.15 ug/L

response 1233

Ion	Exp%	Act%
83.00	100	100
85.00	47.30	41.11
133.00	19.90	32.66
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6945.D
Acq On : 16 Mar 2015 8:45 pm
Operator : F. NAEGLER
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 21:00:34 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6945.D\data.ms

(11) Freon 123

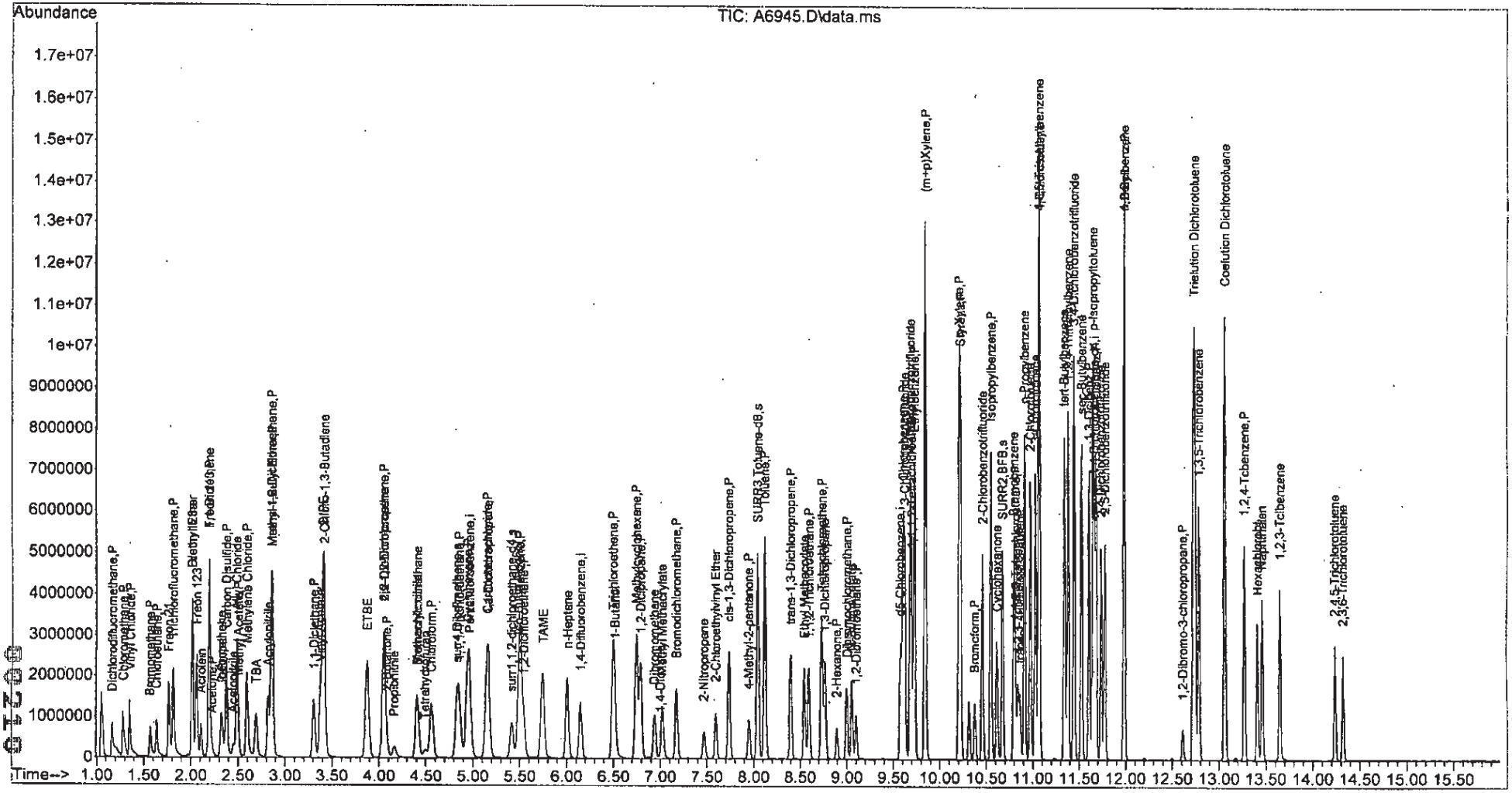
2.060min (+0.002) 123.93 ug/L m

response 1015499

Ion	Exp%	Act%
83.00	100	100
85.00	47.30	67.58#
133.00	19.90	21.82
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6945.D
Acq On : 16 Mar 2015 8:45 pm
Operator : F. NAEGLER
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 17 10:42:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6946.D
Acq On : 16 Mar 2015 9:15 pm
Operator : F. NAEGLER
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 21:30:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

FV 3/17/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.974	168	889133	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.150	114	1303714	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.583	117	1297238	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.661	152	809796	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	4.833	113	973171	123.02	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 246.04%#				
46) surr1,1,2-dichloroetha...	5.413	65	1010442	126.90	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 253.80%#				
64) SURR3,Toluene-d8	8.046	98	3709713	129.08	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 258.16%#				
69) SURR2,BFB	10.674	95	1634767	136.30	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 272.60%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.163	85	1344725	159.49	ug/L		98
3) Chloromethane	1.279	50	1684371	106.21	ug/L		100
4) Vinyl Chloride	1.352	62	1575499	143.73	ug/L		100
5) Bromomethane	1.566	94	676885	142.42	ug/L		98
6) Chloroethane	1.633	64	853804	169.13	ug/L		96
7) Freon 21	1.761	67	2396303	178.92	ug/L		97
8) Trichlorofluoromethane	1.810	101	1893720	181.12	ug/L		98
9) Diethyl Ether	2.011	59	994836	157.72	ug/L		94
10) Freon 123a	2.011	67	1444100	173.22	ug/L		99
11) Freon 123	2.060	83	1661250	198.97	ug/L	#	77
12) Acrolein	2.108	56	765234	818.37	ug/L		98
13) 1,1-Diclethene	2.194	96	1076951	196.87	ug/L		100
14) Freon 113	2.194	101	1144080	187.71	ug/L		90
15) Acetone	2.224	43	309921	159.62	ug/L		97
16) 2-Propanol	2.334	45	1283194	3506.89	ug/L		96
17) Iodomethane	2.322	142	1327945	126.58	ug/L		96
18) Carbon Disulfide	2.377	76	3922916	200.91	ug/L		99
19) Acetonitrile	2.450	40	241510	806.35	ug/L		92
20) Allyl Chloride	2.492	76	630064	179.40	ug/L	#	75
21) Methyl Acetate	2.505	43	710790	130.53	ug/L		96
22) Methylene Chloride	2.596	84	1194951	194.29	ug/L		94
23) TBA	2.694	59	1921667	4265.11	ug/L		91
24) Acrylonitrile	2.822	53	1714681	725.40	ug/L		100
25) Methyl-t-Butyl Ether	2.864	73	3202859	222.85	ug/L		97
26) trans-1,2-Dichloroethene	2.858	96	1199455	198.52	ug/L		97
27) 1,1-Diclethane	3.303	63	2264474	154.66	ug/L		99
28) Vinyl Acetate	3.376	86	215160	243.95	ug/L	#	48
29) DIPE	3.407	45	4891886	129.45	ug/L	#	80
30) 2-Chloro-1,3-Butadiene	3.419	53	2707332	154.97	ug/L		99
31) ETBE	3.876	59	4228311	169.19	ug/L		99
32) 2,2-Dichloropropane	4.053	77	1700288	192.20	ug/L		97
33) cis-1,2-Dichloroethene	4.053	96	1328634	178.37	ug/L		98
34) 2-Butanone	4.084	43	439458	144.11	ug/L		95
35) Propionitrile	4.163	54	622911	694.67	ug/L		99

00211

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6946.D
Acq On : 16 Mar 2015 9:15 pm
Operator : F. NAEGLER
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 21:30:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	4.413	130	745546	158.28	ug/L		91
37) Methacrylonitrile	4.407	67	347993	194.96	ug/L	#	80
38) Tetrahydrofuran	4.492	42	276163	139.85	ug/L		89
39) Chloroform	4.559	83	2127978	175.93	ug/L		97
40) 1,1,1-Trichloroethane	4.858	97	1925376	189.30	ug/L		96
42) Cyclohexane	4.949	41	1535491	135.81	ug/L		99
44) Carbontetrachloride	5.157	121	543948	198.26	ug/L		91
45) 1,1-Dichloropropene	5.163	75	1606691	165.92	ug/L		96
47) Benzene	5.504	78	4974889	174.90	ug/L		95
48) 1,2-Dichloroethane	5.541	62	1666709	165.54	ug/L		96
49) Iso-Butyl Alcohol	5.492	43	911887	3757.64	ug/L		92
50) TAME	5.748	73	3302153	210.65	ug/L		95
51) n-Heptane	6.004	43	1620064	123.50	ug/L		92
52) 1-Butanol	6.522	56	1358821	9144.88	ug/L		89
53) Trichloroethene	6.498	130	1366116	169.48	ug/L		97
54) Methylcyclohexane	6.748	55	1860125	145.96	ug/L		95
55) 1,2-Diclpropane	6.790	63	1374588	154.85	ug/L		97
56) Dibromomethane	6.943	93	666006	174.05	ug/L		93
57) 1,4-Dioxane	7.004	88	185786	4270.94	ug/L		77
58) Methyl Methacrylate	7.022	69	659646	179.60	ug/L		88
59) Bromodichloromethane	7.174	83	1676816	187.56	ug/L		98
60) 2-Nitropropane	7.467	41	577976	507.40	ug/L		94
61) 2-Chloroethylvinyl Ether	7.595	63	689020	170.24	ug/L		95
62) cis-1,3-Dichloropropene	7.735	75	2025499	197.48	ug/L		95
63) 4-Methyl-2-pentanone	7.949	43	1020053	152.00	ug/L		97
65) Toluene	8.119	91	5287941	174.23	ug/L		96
66) trans-1,3-Dichloropropene	8.400	75	1784243	169.34	ug/L		96
67) Ethyl Methacrylate	8.546	69	1412924	178.06	ug/L		85
68) 1,1,2-Trichloroethane	8.595	97	991251	188.88	ug/L		97
71) Tetrachloroethene	8.735	164	1125125	164.24	ug/L		97
72) 2-Hexanone	8.894	43	724715	148.70	ug/L		99
73) 1,3-Dichloropropane	8.766	76	1673972	180.48	ug/L		92
74) Dibromochloromethane	9.003	129	1325280	194.38	ug/L		98
75) N-Butyl Acetate	9.052	43	1855191	154.45	ug/L		98
76) 1,2-Dibromoethane	9.101	107	992090	185.65	ug/L		97
77) 3-Chlorobenzotrifluoride	9.631	180	2312486	167.54	ug/L		97
78) Chlorobenzene	9.607	112	3781429	167.74	ug/L		96
79) 4-Chlorobenzotrifluoride	9.686	180	2106348	164.46	ug/L		98
80) 1,1,1,2-Tetrachloroethane	9.698	131	1463313	190.85	ug/L		97
81) Ethylbenzene	9.729	106	2038518	177.48	ug/L	#	70
82) (m+p)Xylene	9.845	106	4843042	356.96	ug/L	#	75
83) o-Xylene	10.210	106	2498386	182.12	ug/L	#	79
84) Styrene	10.223	104	4312862	189.72	ug/L		93
85) Bromoform	10.375	173	855430	166.45	ug/L		98
86) 2-Chlorobenzotrifluoride	10.460	180	2290765	164.68	ug/L		94
87) Isopropylbenzene	10.552	105	5695635	168.47	ug/L		88
88) Cyclohexanone	10.613	55	1424838	2971.00	ug/L		95
89) trans-1,4-Dichloro-2-B...	10.863	53	415882	174.33	ug/L		96
91) 1,1,2,2-Tetrachloroethane	10.814	83	1248005	170.88	ug/L		99
92) Bromobenzene	10.802	156	1752557	162.40	ug/L	#	90
93) 1,2,3-Trichloropropane	10.845	110	348842	183.88	ug/L	#	87

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6946.D
Acq On : 16 Mar 2015 9:15 pm
Operator : F. NAEGLER
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 21:30:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

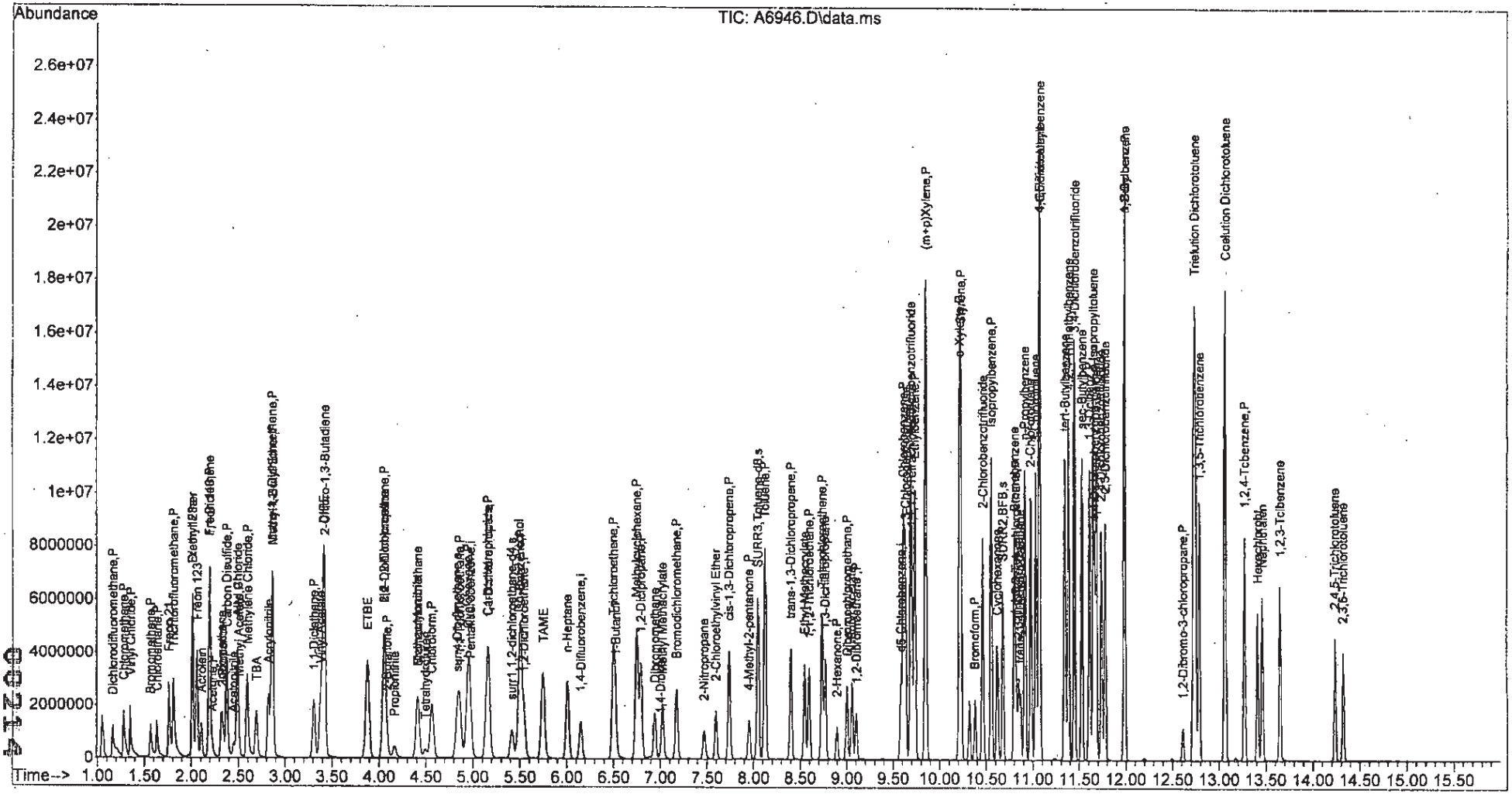
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	10.912	91	6232533	148.13	ug/L	82
95)	2-Chlorotoluene	10.973	91	4367392	166.80	ug/L	94
96)	3-Chlorotoluene	11.027	91	4766303	167.91	ug/L	93
97)	4-Chlorotoluene	11.070	91	4941805	156.32	ug/L	87
98)	1,3,5-Trimethylbenzene	11.070	105	5083522	163.76	ug/L	87
99)	tert-Butylbenzene	11.344	119	4445949	168.48	ug/L	92
100)	1,2,4-Trimethylbenzene	11.381	105	5138531	164.50	ug/L	80
101)	3,4-Dichlorobenzotrifl...	11.448	214	1780106	152.36	ug/L	98
102)	sec-Butylbenzene	11.527	105	5712459	154.93	ug/L	84
103)	p-Isopropyltoluene	11.649	119	5190005	160.96	ug/L	86
104)	1,3-Dclbenz	11.607	146	3388130	157.89	ug/L	95
105)	1,4-Dclbenz	11.680	146	3462628	157.17	ug/L	97
106)	2,4-Dichlorobenzotrifl...	11.735	214	1649907	159.88	ug/L	98
107)	2,5-Dichlorobenzotrifl...	11.777	214	1774453	145.30	ug/L	99
108)	n-Butylbenzene	11.985	91	4666032	167.69	ug/L	85
109)	1,2-Dclbenz	11.985	146	3207930	165.19	ug/L	97
110)	1,2-Dibromo-3-chloropr...	12.612	157	252429	195.61	ug/L	96
111)	Trielution Dichlorotol...	12.734	125	8116952	471.61	ug/L	87
112)	1,3,5-Trichlorobenzene	12.789	180	2377877	146.02	ug/L	97
113)	Coelution Dichlorotoluene	13.064	125	5494653	308.78	ug/L	89
114)	1,2,4-Tcbenzene	13.271	180	1984674	148.26	ug/L	98
115)	Hexachlorobt	13.411	225	833467	133.39	ug/L	96
116)	Naphthalen	13.460	128	3601213	173.31	ug/L	99
117)	1,2,3-Tclbenzene	13.649	180	1515195	141.31	ug/L	98
118)	2,4,5-Trichlorotoluene	14.234	159	984558	124.43	ug/L	98
119)	2,3,6-Trichlorotoluene	14.319	159	812772	99.05	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

00213

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6946.D
Acq On : 16 Mar 2015 9:15 pm
Operator : F. NAEGLER
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 21:30:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6947.D
Acq On : 16 Mar 2015 9:44 pm
Operator : F. NAEGLER
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 17 10:45:44 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

FV 3/17/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.968	168	901750	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.151	114	1323381	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	1317121	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.662	152	824426	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.834	113	1205882	150.17	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	300.34%#		
46) surr1,1,2-dichloroetha...	5.413	65	1236439	152.98	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery =	305.96%#		
64) SURR3,Toluene-d8	8.046	98	4557715	156.24	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	312.48%#		
69) SURR2,BFB	10.674	95	2008260	164.95	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	329.90%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.164	85	1908800	223.23	ug/L	98
3) Chloromethane	1.280	50	2465270	153.27	ug/L	98
4) Vinyl Chloride	1.353	62	2253587	202.71	ug/L	98
5) Bromomethane	1.566	94	993125	206.04	ug/L	97
6) Chloroethane	1.633	64	1208931	236.12	ug/L	97
7) Freon 21	1.761	67	3301204	243.03	ug/L	95
8) Trichlorofluoromethane	1.810	101	2717053	256.22	ug/L	97
9) Diethyl Ether	2.011	59	1369131	214.02	ug/L	96
10) Freon 123a	2.011	67	1930527	228.33	ug/L	99
11) Freon 123	2.060	83	2329335m	275.08	ug/L	
12) Acrolein	2.109	56	1053871	1111.28	ug/L	100
13) 1,1-Diclethene	2.194	96	1545177	278.51	ug/L	99
14) Freon 113	2.194	101	1643644	265.90	ug/L	89
15) Acetone	2.224	43	454512	230.82	ug/L	95
16) 2-Propanol	2.334	45	1735836	4677.56	ug/L	97
17) Iodomethane	2.316	142	1777839	157.01	ug/L	97
18) Carbon Disulfide	2.377	76	5202211	262.71	ug/L	97
19) Acetonitrile	2.450	40	331403	1091.00	ug/L	92
20) Allyl Chloride	2.493	76	855771	240.26	ug/L #	77
21) Methyl Acetate	2.505	43	967206	175.13	ug/L	97
22) Methylene Chloride	2.596	84	1694960	271.74	ug/L	96
23) TBA	2.694	59	2629190	5753.79	ug/L	90
24) Acrylonitrile	2.822	53	2344429	977.94	ug/L	98
25) Methyl-t-Butyl Ether	2.865	73	4353596	298.68	ug/L	96
26) trans-1,2-Dichloroethene	2.858	96	1700866	277.57	ug/L	98
27) 1,1-Diclethane	3.304	63	3151468	212.22	ug/L	98
28) Vinyl Acetate	3.377	86	286581	320.39	ug/L #	52
29) DIPE	3.407	45	6571336	171.46	ug/L #	80
30) 2-Chloro-1,3-Butadiene	3.419	53	3660749	206.62	ug/L	98
31) ETBE	3.877	59	5747009	226.73	ug/L	99
32) 2,2-Dichloropropane	4.053	77	2381554	265.45	ug/L	98
33) cis-1,2-Dichloroethene	4.053	96	1863216	246.64	ug/L	98
34) 2-Butanone	4.090	43	598106	193.38	ug/L	98
35) Propionitrile	4.169	54	845238	890.68	ug/L	98

00215

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6947.D
Acq On : 16 Mar 2015 9:44 pm
Operator : F. NAEGLER
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 17 10:45:44 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36)	Bromochloromethane	4.413	130	1025848	214.75	ug/L		93
37)	Methacrylonitrile	4.407	67	477600	263.83	ug/L	#	79
38)	Tetrahydrofuran	4.492	42	379577	189.53	ug/L		92
39)	Chloroform	4.559	83	3005329	244.99	ug/L		98
40)	1,1,1-Trichloroethane	4.858	97	2734652	265.10	ug/L		95
42)	Cyclohexane	4.950	41	2125956	185.24	ug/L		97
44)	Carbontetrachloride	5.157	121	783957	281.49	ug/L		91
45)	1,1-Dichloropropene	5.163	75	2311646	235.17	ug/L		97
47)	Benzene	5.504	78	6928458	239.96	ug/L		93
48)	1,2-Dichloroethane	5.541	62	2327832	227.77	ug/L		96
49)	Iso-Butyl Alcohol	5.492	43	1254357	5092.05	ug/L		92
50)	TAME	5.748	73	4538603	285.22	ug/L		95
51)	n-Heptane	6.010	43	2341711	175.86	ug/L		95
52)	1-Butanol	6.522	56	1836716	11136.72	ug/L		93
53)	Trichloroethene	6.498	130	1970572	240.83	ug/L		98
54)	Methylcyclohexane	6.748	55	2594058	200.52	ug/L		95
55)	1,2-Diclpropane	6.797	63	1923402	213.45	ug/L		97
56)	Dibromomethane	6.937	93	916161	235.87	ug/L		98
57)	1,4-Dioxane	7.004	88	252822	5725.63	ug/L		80
58)	Methyl Methacrylate	7.028	69	900675	225.13	ug/L		89
59)	Bromodichloromethane	7.175	83	2377839	262.03	ug/L		99
60)	2-Nitropropane	7.467	41	798622	690.69	ug/L		96
61)	2-Chloroethylvinyl Ether	7.595	63	942404	229.39	ug/L		94
62)	cis-1,3-Dichloropropene	7.736	75	2820401	270.90	ug/L		95
63)	4-Methyl-2-pentanone	7.949	43	1388768	203.87	ug/L		97
65)	Toluene	8.120	91	6978372	226.51	ug/L		88
66)	trans-1,3-Dichloropropene	8.400	75	2474716	213.78	ug/L		97
67)	Ethyl Methacrylate	8.546	69	1954509	223.42	ug/L		89
68)	1,1,2-Trichloroethane	8.595	97	1362640	255.79	ug/L		97
71)	Tetrachloroethene	8.735	164	1618902	232.75	ug/L		98
72)	2-Hexanone	8.894	43	972377	196.51	ug/L		98
73)	1,3-Dichloropropane	8.772	76	2305974	244.86	ug/L		94
74)	Dibromochloromethane	9.004	129	1840781	265.92	ug/L		100
75)	N-Butyl Acetate	9.052	43	2509120	205.74	ug/L		99
76)	1,2-Dibromoethane	9.101	107	1357752	250.24	ug/L		99
77)	3-Chlorobenzotrifluoride	9.632	180	3083668	220.04	ug/L		98
78)	Chlorobenzene	9.607	112	5070489	221.53	ug/L		90
79)	4-Chlorobenzotrifluoride	9.686	180	2802758	215.54	ug/L		96
80)	1,1,1,2-Tetrachloroethane	9.699	131	2055218	264.00	ug/L		97
81)	Ethylbenzene	9.735	106	2901683	248.81	ug/L	#	47
82)	(m+p)Xylene	9.851	106	6278718	455.79	ug/L	#	65
83)	o-Xylene	10.211	106	3500140	251.29	ug/L	#	66
84)	Styrene	10.223	104	5615270	243.28	ug/L		84
85)	Bromoform	10.375	173	1190470	210.14	ug/L		100
86)	2-Chlorobenzotrifluoride	10.461	180	3043008	215.46	ug/L		91
87)	Isopropylbenzene	10.552	105	7165674	208.75	ug/L		74
88)	Cyclohexanone	10.619	55	1877358	3855.48	ug/L		98
89)	trans-1,4-Dichloro-2-B...	10.869	53	559359	230.93	ug/L		95
91)	1,1,2,2-Tetrachloroethane	10.814	83	1692923	227.69	ug/L		99
92)	Bromobenzene	10.802	156	2441779	222.25	ug/L	#	89
93)	1,2,3-Trichloropropane	10.845	110	475542	246.22	ug/L	#	86

00218

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6947.D
Acq On : 16 Mar 2015 9:44 pm
Operator : F. NAEGLER
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

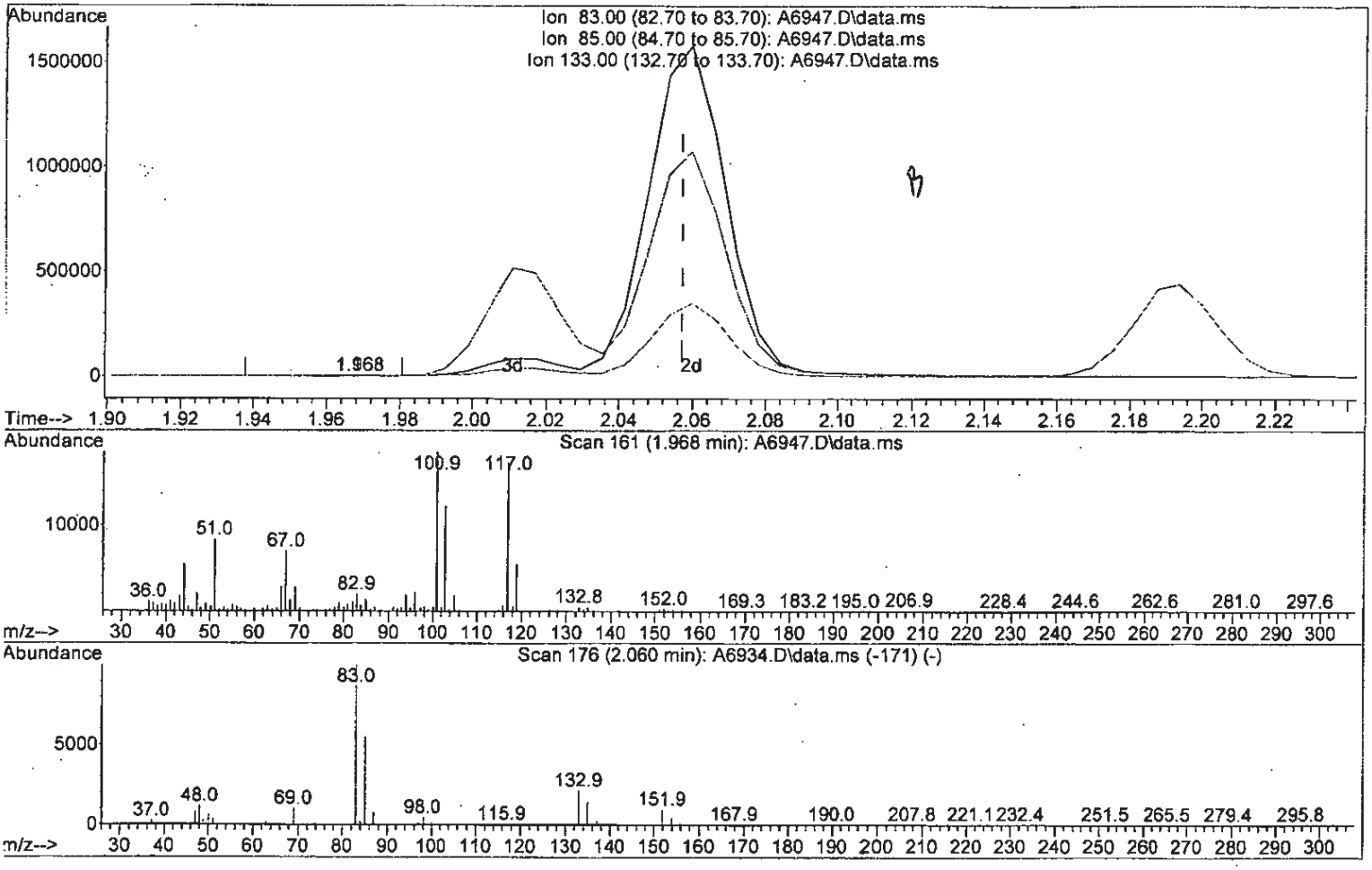
Quant Time: Mar 17 10:45:44 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	n-Propylbenzene	10.912	91	7547142	176.20	ug/L		66
95)	2-Chlorotoluene	10.979	91	5614344	210.62	ug/L		82
96)	3-Chlorotoluene	11.028	91	5874192	203.27	ug/L		85
97)	4-Chlorotoluene	11.070	91	6172830	191.79	ug/L		74
98)	1,3,5-Trimethylbenzene	11.070	105	6384245	202.02	ug/L		75
99)	tert-Butylbenzene	11.345	119	5937251	221.00	ug/L		83
100)	1,2,4-Trimethylbenzene	11.381	105	6424159	202.01	ug/L	#	66
101)	3,4-Dichlorobenzotrifl...	11.448	214	2386099	200.60	ug/L		100
102)	sec-Butylbenzene	11.528	105	7073157	188.42	ug/L		70
103)	p-Isopropyltoluene	11.649	119	6454741	196.63	ug/L		71
104)	1,3-Dclbenz	11.607	146	4554861	208.50	ug/L		90
105)	1,4-Dclbenz	11.686	146	4636262	206.71	ug/L		94
106)	2,4-Dichlorobenzotrifl...	11.735	214	2179207	207.43	ug/L		95
107)	2,5-Dichlorobenzotrifl...	11.777	214	2380904	191.50	ug/L		99
108)	n-Butylbenzene	11.985	91	5913909	208.76	ug/L		72
109)	1,2-Dclbenz	11.985	146	4264487	215.70	ug/L		92
110)	1,2-Dibromo-3-chloropr...	12.613	157	347628	264.60	ug/L		96
111)	Trielution Dichlorotol...	12.735	125	9837388	561.42	ug/L		77
112)	1,3,5-Trichlorobenzene	12.789	180	3110637	187.63	ug/L		98
113)	Coelution Dichlorotoluene	13.064	125	6527241	360.30	ug/L		75
114)	1,2,4-Tcbenzene	13.271	180	2665441	195.58	ug/L		97
115)	Hexachlorobt	13.411	225	1188756	186.87	ug/L		98
116)	Naphthalen	13.460	128	4652874	219.95	ug/L		96
117)	1,2,3-Tclbenzene	13.649	180	2051883	187.97	ug/L		98
118)	2,4,5-Trichlorotoluene	14.240	159	1266354	157.21	ug/L		99
119)	2,3,6-Trichlorotoluene	14.326	159	1051437	125.86	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6947.D
Acq On : 16 Mar 2015 9:44 pm
Operator : F. NAEGLER
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 16 21:59:54 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6947.D\data.ms

(11) Freon 123

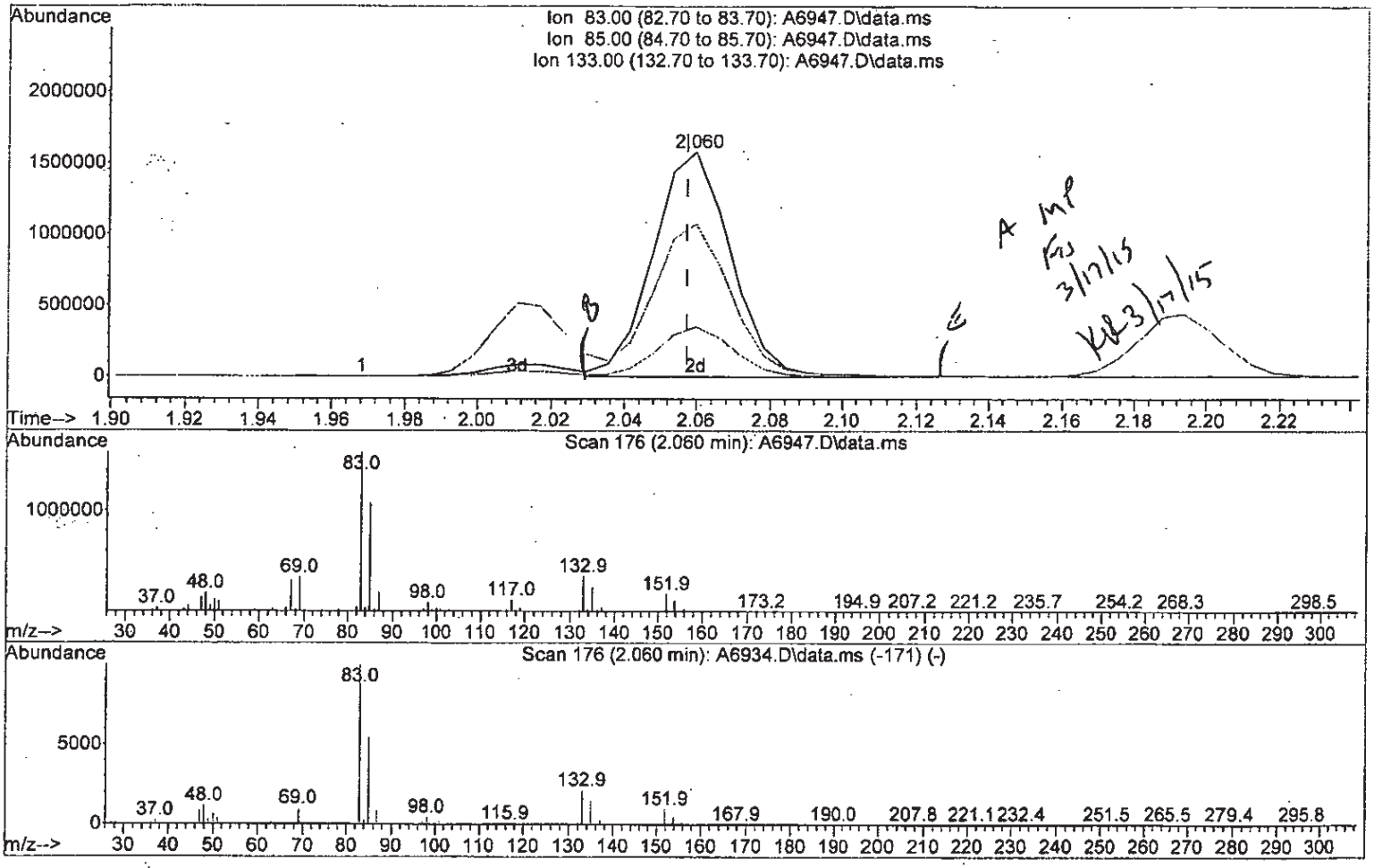
1.968min (-0.089) 0.30 ug/L

response 2512

Ion	Exp%	Act%
83.00	100	100
85.00	47.30	66.72
133.00	19.90	26.38
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6947.D
Acq On : 16 Mar 2015 9:44 pm
Operator : F. NAEGLER
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 16 21:59:54 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



TIC: A6947.D\data.ms

(11) Freon 123

2.060min (+0.002) 275.08 ug/L m

response 2329335

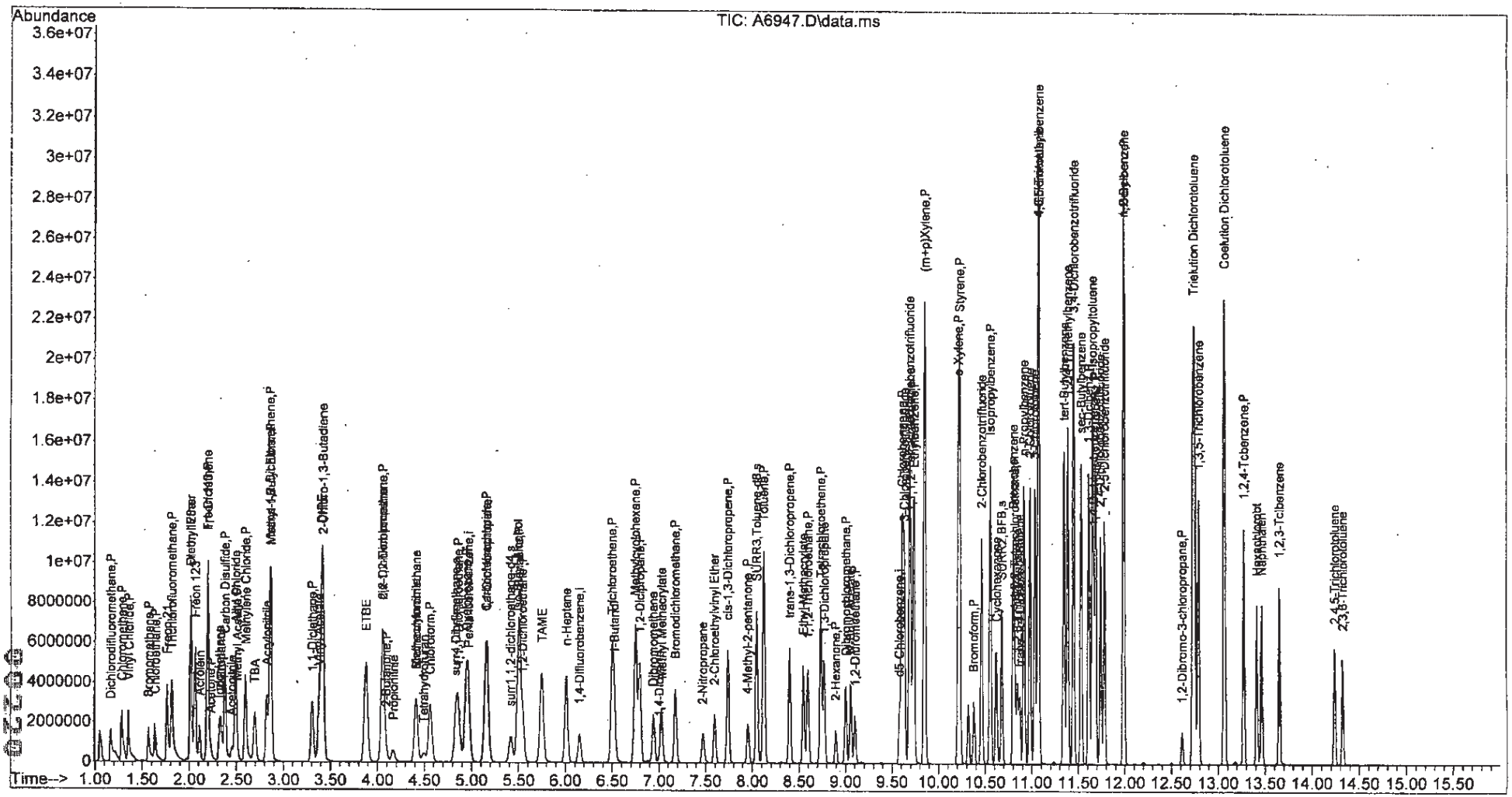
Ion	Exp%	Act%
83.00	100	100
85.00	47.30	67.99#
133.00	19.90	22.04
0.00	0.00	0.00

00219

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6947.D
Acq On : 16 Mar 2015 9:44 pm
Operator : F. NAEGLER
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 17 10:45:44 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Mar 16 15:09:06 2015
Response via : Initial Calibration



Initial Calibration Verification Summary Report

Calibration ID:	RC1500024	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
1,1,1,2-Tetrachloroethane	RC1500024-10	T	Average RF	50	51.24	ppm	2.5	<=30
1,1,1-Trichloroethane (TCA)	RC1500024-10	T	Average RF	50	51.45	ppm	2.9	<=30
1,1,2,2-Tetrachloroethane	RC1500024-10	T	Average RF	50	49.65	ppm	-0.7	<=30
1,1,2-Trichloroethane	RC1500024-10	T	Average RF	50	48.79	ppm	-2.4	<=30
1,1,2-Trichlorotrifluoroethane	RC1500024-10	T	Average RF	50	49.54	ppm	-0.9	<=30
1,1-Dichloroethane (1,1-DCA)	RC1500024-10	T	Average RF	50	51.93	ppm	3.9	<=30
1,1-Dichloroethene (1,1-DCE)	RC1500024-10	T	Average RF	50	51.07	ppm	2.1	<=30
1,1-Dichloropropene	RC1500024-10	T	Average RF	50	49.74	ppm	-0.5	<=30
1,2,3-Trichlorobenzene	RC1500024-10	T	Average RF	50	50.94	ppm	1.9	<=30
1,2,3-Trichloropropane	RC1500024-10	T	Average RF	50	50.73	ppm	1.5	<=30
1,2,4-Trichlorobenzene	RC1500024-10	T	Average RF	50	50.83	ppm	1.7	<=30
1,2,4-Trimethylbenzene	RC1500024-10	T	Average RF	50	54.38	ppm	8.8	<=30
1,2-Dibromo-3-chloropropane (DBCP)	RC1500024-10	T	Average RF	50	51.53	ppm	3.1	<=30
1,2-Dibromoethane	RC1500024-10	T	Average RF	50	50.86	ppm	1.7	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1500024-10	T	Average RF	50	57.20	ppm	14.4	<=30
1,2-Dichlorobenzene	RC1500024-10	T	Average RF	50	52.89	ppm	5.8	<=30
1,2-Dichloroethane	RC1500024-10	T	Average RF	50	50.70	ppm	1.4	<=30
1,2-Dichloropropane	RC1500024-10	T	Average RF	50	52.67	ppm	5.3	<=30
1,3,5-Trichlorobenzene	RC1500024-10	T	Average RF	50	51.12	ppm	2.2	<=30
1,3,5-Trimethylbenzene	RC1500024-10	T	Average RF	50	54.48	ppm	9.0	<=30
1,3-Dichlorobenzene	RC1500024-10	T	Average RF	50	52.18	ppm	4.4	<=30
1,3-Dichloropropane	RC1500024-10	T	Average RF	50	52.37	ppm	4.7	<=30
1,4-Dichlorobenzene	RC1500024-10	T	Average RF	50	52.12	ppm	4.2	<=30
1,4-Dioxane	RC1500024-10	T	Average RF	1000	965.4	ppm	-3.5	<=30
1-Butanol	RC1500024-10	T	Average RF	2500	2323	ppm	-7.1	<=30
1-Chloro-4-(trifluoromethyl)benzene	RC1500024-10	T	Average RF	50	50.73	ppm	1.5	<=30
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1500024-10	T	Average RF	50	54.62	ppm	9.2	<=30
2,2-Dichloropropane	RC1500024-10	T	Average RF	50	46.43	ppm	-7.1	<=30
2,3,6-Trichlorotoluene	RC1500024-10	T	Average RF	50	50.58	ppm	1.2	<=30
2,4,5-Trichlorotoluene	RC1500024-10	T	Average RF	50	50.45	ppm	0.9	<=30
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	RC1500024-10	T	Average RF	150	158.9	ppm	5.9	<=30
2,4-Dichlorobenzotrifluoride	RC1500024-10	T	Average RF	50	49.23	ppm	-1.5	<=30
2,5-Dichlorobenzotrifluoride	RC1500024-10	T	Average RF	50	50.58	ppm	1.2	<=30
2-Butanone (MEK)	RC1500024-10	T	Average RF	50	47.32	ppm	-5.4	<=30
2-Chloro-1,3-butadiene	RC1500024-10	T	Average RF	50	43.92	ppm	-12.2	<=30
2-Chlorobenzotrifluoride	RC1500024-10	T	Average RF	50	52.08	ppm	4.2	<=30
2-Chloroethyl Vinyl Ether	RC1500024-10	T	Average RF	50	49.39	ppm	-1.2	<=30
2-Chlorotoluene	RC1500024-10	T	Average RF	50	52.68	ppm	5.4	<=30
2-Hexanone	RC1500024-10	T	Average RF	50	47.95	ppm	-4.1	<=30
2-Methyl-1-propanol	RC1500024-10	T	Average RF	1000	970.7	ppm	-2.9	<=30
2-Methyl-2-propanol	RC1500024-10	T	Average RF	1000	1002	ppm	0.2	<=30
2-Nitropropane	RC1500024-10	T	Average RF	100	106.3	ppm	6.3	<=30
2-Propanol	RC1500024-10	T	Average RF	1000	1037	ppm	3.7	<=30
3,4- and 2,3-Dichlorotoluene Coelution	RC1500024-10	T	Average RF	100	106.8	ppm	6.8	<=30
3,4-Dichlorobenzotrifluoride	RC1500024-10	T	Average RF	50	50.27	ppm	0.5	<=30
3-Chloro-1-propene	RC1500024-10	T	Average RF	50	46.46	ppm	-7.1	<=30
3-Chlorobenzotrifluoride	RC1500024-10	T	Average RF	50	51.41	ppm	2.8	<=30
3-Chlorqtoluene	RC1500024-10	T	Average RF	50	51.52	ppm	3.0	<=30
4-Chlorotoluene	RC1500024-10	T	Average RF	50	53.87	ppm	7.7	<=30
4-Isopropyltoluene	RC1500024-10	T	Average RF	50	55.84	ppm	11.7	<=30
4-Methyl-2-pentanone	RC1500024-10	T	Average RF	50	48.82	ppm	-2.4	<=30

Initial Calibration Verification Summary Report

Calibration ID:	RC1500024	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Acetone	RC1500024-10	T	Average RF	50	53.48	ppm	7.0	<=30
Acetonitrile	RC1500024-10	T	Average RF	250	226.9	ppm	-9.2	<=30
Acrolein	RC1500024-11	T	Average RF	100	86.70	ppm	-13.3	<=30
Acrylonitrile	RC1500024-10	T	Average RF	250	239.4	ppm	-4.2	<=30
Benzene	RC1500024-10	T	Average RF	50	51.34	ppm	2.7	<=30
Bromobenzene	RC1500024-10	T	Average RF	50	51.42	ppm	2.8	<=30
Bromochloromethane	RC1500024-10	T	Average RF	50	53.06	ppm	6.1	<=30
Bromodichloromethane	RC1500024-10	T	Average RF	50	51.17	ppm	2.3	<=30
Bromoform	RC1500024-10	T	Average RF	50	50.98	ppm	2.0	<=30
Bromomethane	RC1500024-10	T	Quadratic	50	56.82	ppm	13.6	<=30
Carbon Disulfide	RC1500024-10	T	Average RF	50	47.23	ppm	-5.5	<=30
Carbon Tetrachloride	RC1500024-10	T	Average RF	50	49.99	ppm	0.0	<=30
Chlorobenzene	RC1500024-10	T	Average RF	50	52.63	ppm	5.3	<=30
Chloroethane	RC1500024-10	T	Average RF	50	49.56	ppm	-0.9	<=30
Chloroform	RC1500024-10	T	Average RF	50	51.42	ppm	2.8	<=30
Chloromethane	RC1500024-10	T	Average RF	50	51.21	ppm	2.4	<=30
Cyclohexane	RC1500024-10	T	Average RF	50	53.89	ppm	7.8	<=30
Cyclohexanone	RC1500024-10	T	Average RF	1000	855.8	ppm	-14.4	<=30
Dibromochloromethane	RC1500024-10	T	Average RF	50	51.24	ppm	2.5	<=30
Dibromomethane	RC1500024-10	T	Average RF	50	49.91	ppm	-0.2	<=30
Dichlorodifluoromethane (CFC 12)	RC1500024-10	T	Average RF	50	56.52	ppm	13.0	<=30
Dichlorofluoromethane (CFC 21)	RC1500024-10	T	Average RF	50	59.93	ppm	19.9	<=30
Dichloromethane	RC1500024-10	T	Average RF	50	52.00	ppm	4.0	<=30
Diethyl Ether	RC1500024-10	T	Average RF	50	52.07	ppm	4.1	<=30
Diisopropyl Ether	RC1500024-10	T	Average RF	50	47.04	ppm	-5.9	<=30
Ethyl Methacrylate	RC1500024-10	T	Average RF	50	45.36	ppm	-9.3	<=30
Ethyl tert-Butyl Ether	RC1500024-10	T	Average RF	50	46.59	ppm	-6.8	<=30
Ethylbenzene	RC1500024-10	T	Average RF	50	48.65	ppm	-2.7	<=30
Hexachlorobutadiene	RC1500024-10	T	Average RF	50	46.33	ppm	-7.3	<=30
Iodomethane	RC1500024-10	T	Quadratic	50	51.09	ppm	2.2	<=30
Isopropylbenzene (Cumene)	RC1500024-10	T	Average RF	50	55.41	ppm	10.8	<=30
Methacrylonitrile	RC1500024-10	T	Average RF	50	45.89	ppm	-8.2	<=30
Methyl Acetate	RC1500024-10	T	Average RF	50	52.58	ppm	5.2	<=30
Methyl Methacrylate	RC1500024-10	T	Average RF	50	45.06	ppm	-9.9	<=30
Methyl tert-Butyl Ether	RC1500024-10	T	Average RF	50	50.92	ppm	1.8	<=30
Methylcyclohexane	RC1500024-10	T	Average RF	50	53.06	ppm	6.1	<=30
Naphthalene	RC1500024-10	T	Average RF	50	52.64	ppm	5.3	<=30
Propionitrile	RC1500024-10	T	Average RF	250	251.7	ppm	0.7	<=30
Styrene	RC1500024-10	T	Average RF	50	53.59	ppm	7.2	<=30
Tetrachloroethene (PCE)	RC1500024-10	T	Average RF	50	51.15	ppm	2.3	<=30
Tetrahydrofuran (THF)	RC1500024-10	T	Average RF	50	46.55	ppm	-6.9	<=30
Toluene	RC1500024-10	T	Average RF	50	53.37	ppm	6.7	<=30
Trichloroethene (TCE)	RC1500024-10	T	Average RF	50	52.95	ppm	5.9	<=30
Trichlorofluoromethane (CFC 11)	RC1500024-10	T	Average RF	50	49.61	ppm	-0.8	<=30
Vinyl Acetate	RC1500024-10	T	Average RF	50	44.69	ppm	-10.6	<=30
Vinyl Chloride	RC1500024-10	T	Average RF	50	51.27	ppm	2.5	<=30
cis-1,2-Dichloroethene	RC1500024-10	T	Average RF	50	49.58	ppm	-0.8	<=30
cis-1,3-Dichloropropene	RC1500024-10	T	Average RF	50	49.57	ppm	-0.9	<=30
m,p-Xylenes	RC1500024-10	T	Average RF	100	108.3	ppm	8.3	<=30
n-Butyl Acetate	RC1500024-10	T	Average RF	50	54.86	ppm	9.7	<=30
n-Butylbenzene	RC1500024-10	T	Average RF	50	54.16	ppm	8.3	<=30

Initial Calibration Verification Summary Report

Calibration ID:	RC1500024	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
n-Heptane	RC1500024-10	T	Average RF	50	44.33	ppm	-11.3	<=30
n-Propylbenzene	RC1500024-10	T	Average RF	50	55.42	ppm	10.8	<=30
o-Xylene	RC1500024-10	T	Average RF	50	52.71	ppm	5.4	<=30
sec-Butylbenzene	RC1500024-10	T	Average RF	50	54.73	ppm	9.5	<=30
tert-Amyl Methyl Ether	RC1500024-10	T	Average RF	50	48.92	ppm	-2.2	<=30
tert-Butylbenzene	RC1500024-10	T	Average RF	50	52.99	ppm	6.0	<=30
trans-1,2-Dichloroethene	RC1500024-10	T	Average RF	50	51.13	ppm	2.3	<=30
trans-1,3-Dichloropropene	RC1500024-10	T	Average RF	50	50.19	ppm	0.4	<=30
trans-1,4-Dichloro-2-butene	RC1500024-10	T	Average RF	50	38.77	ppm	-22.5	<=30
1,2-Dichloroethane-d4	RC1500024-10	S	Average RF	50	50.64	ppm	1.3	<=30
4-Bromofluorobenzene	RC1500024-10	S	Average RF	50	51.98	ppm	4.0	<=30
Dibromofluoromethane	RC1500024-10	S	Average RF	50	51.01	ppm	2.0	<=30
Toluene-d8	RC1500024-10	S	Average RF	50	51.90	ppm	3.8	<=30

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6950.D
Acq On : 16 Mar 2015 11:13 pm
Operator : F. NAEGLER
Sample : 50 PPB ICV
Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 17 12:57:44 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

FV 3/17/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.968	168	846728	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.151	114	1244218	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	1224897	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.662	152	752605	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.834	113	379326	51.01	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.02%			
46) surr1,1,2-dichloroetha...	5.413	65	392041	50.64	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 101.28%			
64) SURR3,Toluene-d8	8.047	98	1482176	51.90	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.80%			
69) SURR2,BFB	10.674	95	651183	51.98	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.164	85	454348	56.52	ug/L	96
3) Chloromethane	1.280	50	515537	51.21	ug/L	97
4) Vinyl Chloride	1.353	62	480761	51.27	ug/L	100
5) Bromomethane	1.572	94	190853	56.82	ug/L	98
6) Chloroethane	1.639	64	265767	49.56	ug/L	97
7) Freon 21	1.767	67	876179	59.93	ug/L	98
8) Trichlorofluoromethane	1.810	101	575129	49.61	ug/L	99
9) Diethyl Ether	2.011	59	316142	52.07	ug/L	94
10) Freon 123a	2.011	67	522038	57.20	ug/L	98
11) Freon 123	2.060	83	551298	54.62	ug/L	79
12) Acrolein	2.109	56	58619	66.28	ug/L	99
13) 1,1-Diclethene	2.194	96	330929	51.07	ug/L	96
14) Freon 113	2.194	101	352887	49.54	ug/L	93
15) Acetone	2.224	43	106779	53.48	ug/L	98
16) 2-Propanol	2.328	45	379440	1037.31	ug/L	93
17) Iodomethane	2.322	142	229357	51.09	ug/L	96
18) Carbon Disulfide	2.377	76	1121641	47.23	ug/L	99
19) Acetonitrile	2.456	40	62972	226.90	ug/L	95
20) Allyl Chloride	2.487	76	178295	46.46	ug/L #	64
21) Methyl Acetate	2.505	43	234774	52.58	ug/L	94
22) Methylene Chloride	2.596	84	374206	52.00	ug/L	94
23) TBA	2.694	59	554222	1002.46	ug/L	90
24) Acrylonitrile	2.822	53	490887	239.45	ug/L	97
25) Methyl-t-Butyl Ether	2.865	73	971756	50.92	ug/L	96
26) trans-1,2-Dichloroethene	2.859	96	376670	51.13	ug/L	96
27) 1,1-Diclethane	3.310	63	712548	51.93	ug/L	98
28) Vinyl Acetate	3.377	86	58232	44.69	ug/L #	71
29) DIPE	3.407	45	1400360	47.04	ug/L #	79
30) 2-Chloro-1,3-Butadiene	3.419	53	699287	43.92	ug/L	97
31) ETBE	3.877	59	1173143	46.59	ug/L	98
32) 2,2-Dichloropropane	4.053	77	498681	46.43	ug/L	98
33) cis-1,2-Dichloroethene	4.053	96	406840	49.58	ug/L	99
34) 2-Butanone	4.090	43	129546	47.32	ug/L	96
35) Propionitrile	4.163	54	187068	251.74	ug/L	100

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6950.D
Acq On : 16 Mar 2015 11:13 pm
Operator : F. NAEGLER
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 17 12:57:44 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.413	130	244041	53.06 ug/L	91
37) Methacrylonitrile	4.407	67	100370	45.89 ug/L #	83
38) Tetrahydrofuran	4.498	42	83766	46.55 ug/L	84
39) Chloroform	4.566	83	666291	51.42 ug/L	98
40) 1,1,1-Trichloroethane	4.858	97	611594	51.45 ug/L	96
42) Cyclohexane	4.950	41	512802	53.89 ug/L	94
44) Carbontetrachloride	5.151	121	169265	49.99 ug/L	93
45) 1,1-Dichloropropene	5.163	75	499003	49.74 ug/L	99
47) Benzene	5.504	78	1555520	51.34 ug/L	94
48) 1,2-Dichloroethane	5.541	62	513050	50.70 ug/L	94
49) Iso-Butyl Alcohol	5.486	43	265676	970.69 ug/L	90
50) TAME	5.742	73	952934	48.92 ug/L	97
51) n-Heptane	6.004	43	463714	44.33 ug/L	90
52) 1-Butanol	6.516	56	362860	2322.69 ug/L	90
53) Trichloroethene	6.498	130	434038	52.95 ug/L	96
54) Methylcyclohexane	6.748	55	600879	53.06 ug/L	95
55) 1,2-Diclpropane	6.791	63	425737	52.67 ug/L	96
56) Dibromomethane	6.943	93	203011	49.91 ug/L	92
57) 1,4-Dioxane	7.010	88	50591	965.36 ug/L	81
58) Methyl Methacrylate	7.022	69	177268	45.06 ug/L #	84
59) Bromodichloromethane	7.175	83	517894	51.17 ug/L	99
60) 2-Nitropropane	7.467	41	179606	106.30 ug/L	97
61) 2-Chloroethylvinyl Ether	7.595	63	190298	49.39 ug/L	98
62) cis-1,3-Dichloropropene	7.736	75	598890	49.57 ug/L	96
63) 4-Methyl-2-pentanone	7.949	43	301995	48.82 ug/L	94
65) Toluene	8.120	91	1718789	53.37 ug/L	99
66) trans-1,3-Dichloropropene	8.400	75	526260	50.19 ug/L	99
67) Ethyl Methacrylate	8.546	69	372807	45.36 ug/L	85
68) 1,1,2-Trichloroethane	8.595	97	292530	48.79 ug/L	97
71) Tetrachloroethene	8.729	164	347539	51.15 ug/L	96
72) 2-Hexanone	8.894	43	210740	47.95 ug/L	99
73) 1,3-Dichloropropane	8.766	76	504413	52.37 ug/L	91
74) Dibromochloromethane	8.998	129	391791	51.24 ug/L	99
75) N-Butyl Acetate	9.052	43	602913	54.86 ug/L	98
76) 1,2-Dibromoethane	9.101	107	296056	50.86 ug/L	97
77) 3-Chlorobenzotrifluoride	9.626	180	673470	51.41 ug/L	99
78) Chlorobenzene	9.607	112	1180818	52.63 ug/L	99
79) 4-Chlorobenzotrifluoride	9.680	180	604444	50.73 ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.693	131	431241	51.24 ug/L	97
81) Ethylbenzene	9.729	106	581098	48.65 ug/L	97
82) (m+p)Xylene	9.845	106	1562969	108.29 ug/L	89
83) o-Xylene	10.211	106	761582	52.71 ug/L	95
84) Styrene	10.223	104	1331920	53.59 ug/L	98
85) Bromoform	10.375	173	240653	50.98 ug/L	99
86) 2-Chlorobenzotrifluoride	10.461	180	669692	52.08 ug/L	96
87) Isopropylbenzene	10.546	105	1960544	55.41 ug/L	99
88) Cyclohexanone	10.613	55	402389	855.83 ug/L	96
89) trans-1,4-Dichloro-2-B...	10.863	53	93451	38.77 ug/L	94
91) 1,1,2,2-Tetrachloroethane	10.814	83	363618	49.65 ug/L	100
92) Bromobenzene	10.796	156	528371	51.42 ug/L	98
93) 1,2,3-Trichloropropane	10.845	110	103285	50.73 ug/L	93

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6950.D
Acq On : 16 Mar 2015 11:13 pm
Operator : F. NAEGLER
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 17 12:57:44 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

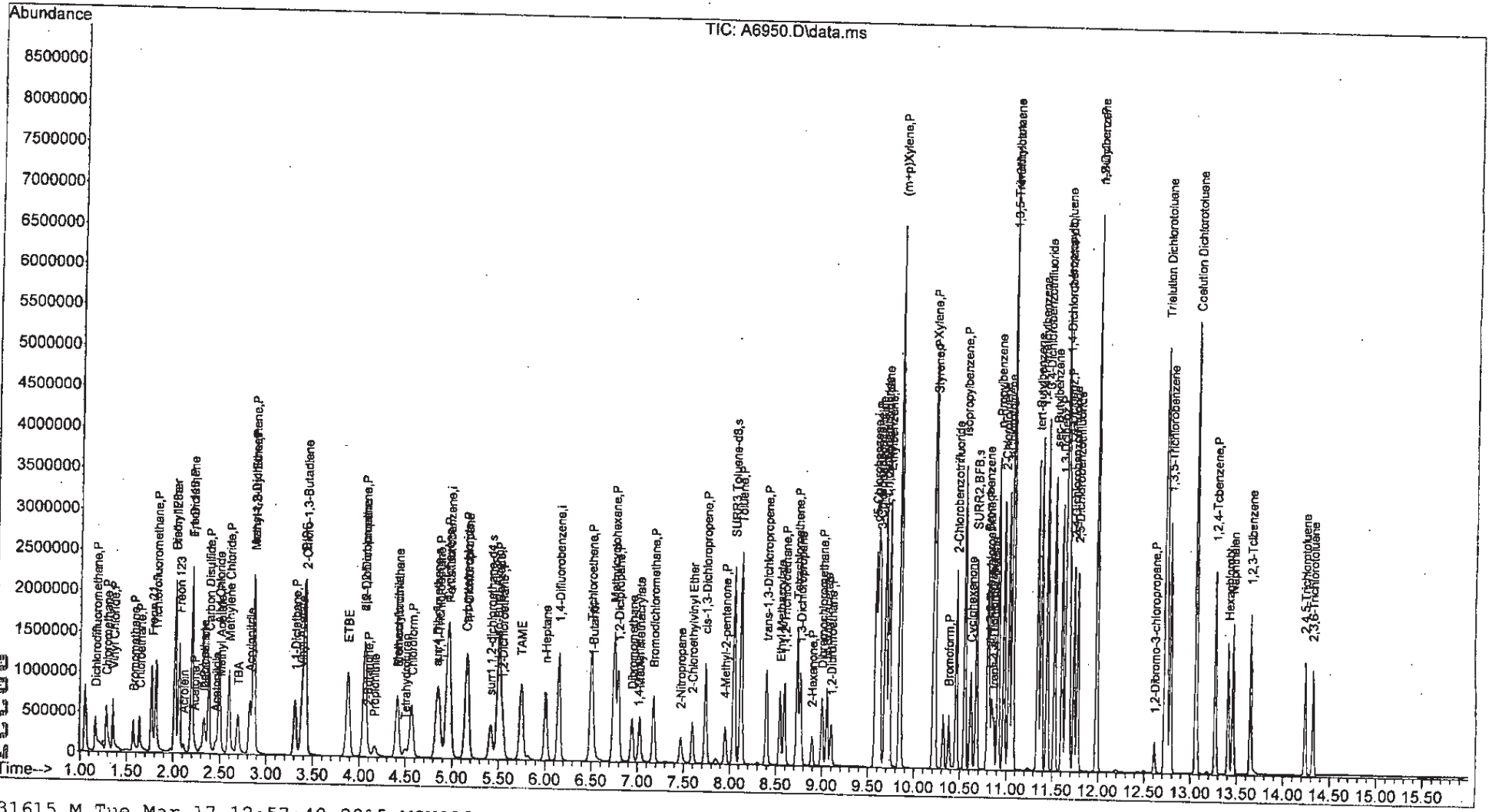
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) n-Propylbenzene	10.912	91	2316651	55.42 ug/L	99
95) 2-Chlorotoluene	10.973	91	1395140	52.68 ug/L	98
96) 3-Chlorotoluene	11.028	91	1457130	51.52 ug/L	98
97) 4-Chlorotoluene	11.070	91	1694539	53.87 ug/L	94
98) 1,3,5-Trimethylbenzene	11.064	105	1709889	54.48 ug/L	98
99) tert-Butylbenzene	11.339	119	1437647	52.99 ug/L	98
100) 1,2,4-Trimethylbenzene	11.381	105	1764934	54.38 ug/L	97
101) 3,4-Dichlorobenzotrifl...	11.442	214	509516	50.27 ug/L	99
102) sec-Butylbenzene	11.528	105	2032461	54.73 ug/L	97
103) p-Isopropyltoluene	11.650	119	1824447	55.84 ug/L	97
104) 1,3-Dclbenz	11.607	146	1056128	52.18 ug/L	97
105) 1,4-Dclbenz	11.680	146	1089623	52.12 ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.735	214	461438	49.23 ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.778	214	525023	50.58 ug/L	96
108) n-Butylbenzene	11.985	91	1567401	54.16 ug/L	97
109) 1,2-Dclbenz	11.985	146	997057	52.89 ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.613	157	75195	51.53 ug/L	94
111) Trielution Dichlorotol...	12.735	125	2649766	158.89 ug/L	97
112) 1,3,5-Trichlorobenzene	12.783	180	720086	51.12 ug/L	98
113) Coelution Dichlorotoluene	13.064	125	1850752	106.84 ug/L	97
114) 1,2,4-Tcbenzene	13.271	180	602631	50.83 ug/L	98
115) Hexachlorobt	13.411	225	244198	46.33 ug/L	99
116) Naphthalen	13.460	128	1098146	52.64 ug/L	98
117) 1,2,3-Tclbenzene	13.649	180	450250	50.94 ug/L	98
118) 2,4,5-Trichlorotoluene	14.234	159	290148	50.45 ug/L	99
119) 2,3,6-Trichlorotoluene	14.320	159	248212	50.58 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6950.D
Acq On : 16 Mar 2015 11:13 pm
Operator : F. NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Mar 17 12:57:44 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



W031615.M Tue Mar 17 12:57:48 2015 MSVO10

Data Path : I:\ACQUDATA\msvoa10\data\031715\
Data File : A6958.D
Acq On : 17 Mar 2015 2:20 pm
Operator : F. NAEGLER
Sample : 50 PPB ICV Inst : MSVOA10
Misc : ACROLEIN ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 14:38:39 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.968	168	844826	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.150	114	1261614	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	1241135	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.662	152	726631	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.834	113	378765	50.23	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.46%			
46) surr1,1,2-dichloroetha...	5.413	65	375996	47.89	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 95.78%			
64) SURR3,Toluene-d8	8.046	98	1520965	52.52	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.04%			
69) SURR2,BFB	10.674	95	639030	50.31	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.62%			
Target Compounds						Qvalue
12) Acrolein	2.109	56	76510	86.70	ug/L	99

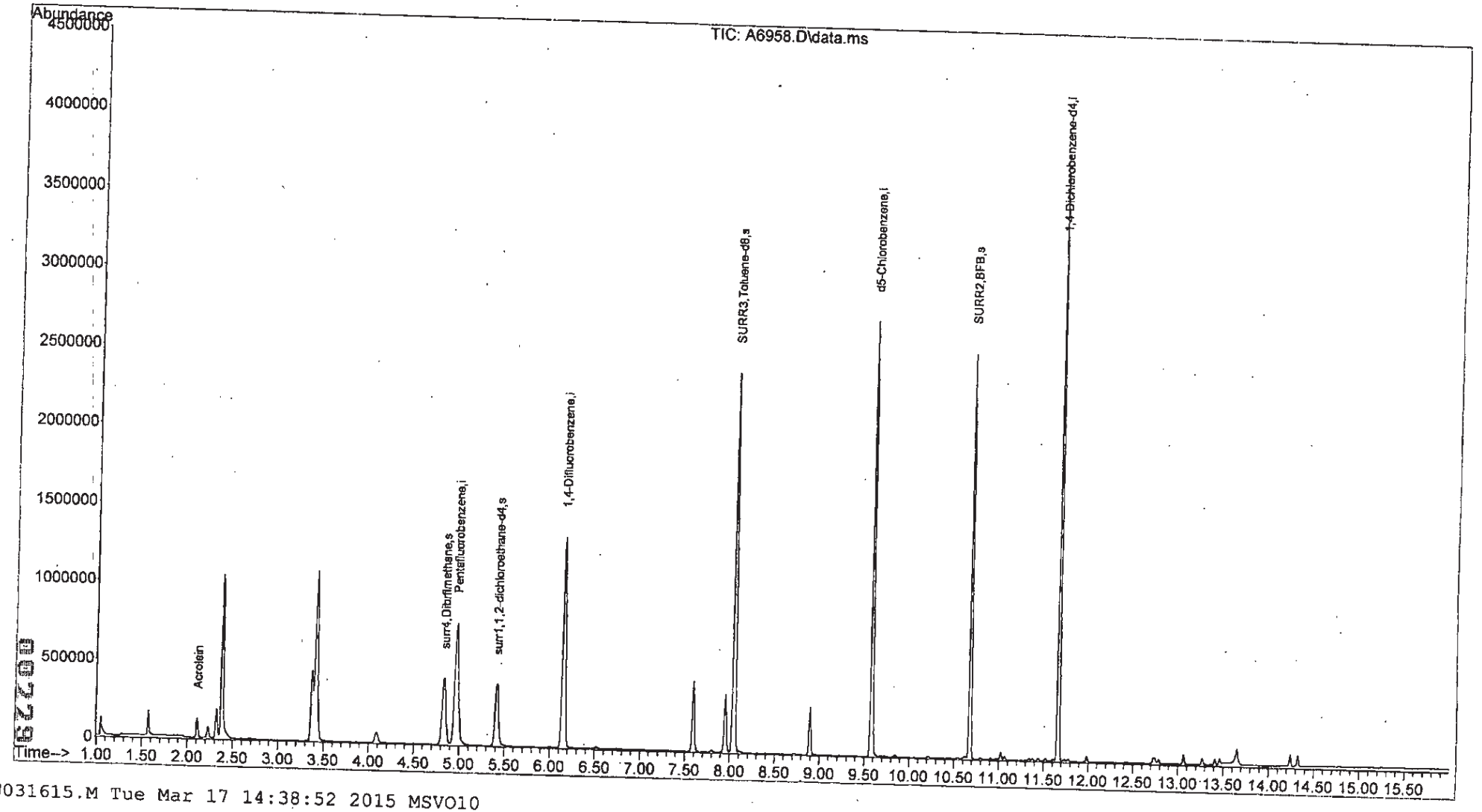
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FJ
3/17/15

00228

Data Path : I:\ACQUDATA\msvoa10\data\031715\
Data File : A6958.D
Acq On : 17 Mar 2015 2:20 pm
Operator : F. NAEGLER
Sample : 50 PPB ICV
Misc : ACROLEIN ONLY
Inst : MSVOA10
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 14:38:39 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



W031615.M Tue Mar 17 14:38:52 2015 MSVO10

Initial Calibration - Summary Report

03/20/15

Calibration ID: RC1500027

Instrument ID: R-MS-14
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,1,1,2-Tetrachloroethane	T	Average RF			0.3178	<=20	3.4
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.7722	<=20	3.8
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	0.9612	<=20	3.5
1,1,2-Trichloroethane	T	Average RF		0.100	0.2835	<=20	3.4
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.4708	<=20	7.6
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.8484	<=20	4.2
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.4378	<=20	9.0
1,1-Dichloropropene	T	Average RF			0.4030	<=20	5.2
1,2,3-Trichlorobenzene	T	Average RF			1.068	<=20	8.6
1,2,3-Trichloropropane	T	Average RF			0.2825	<=20	6.0
1,2,4-Trichlorobenzene	T	Average RF		0.200	1.108	<=20	6.7
1,2,4-Trimethylbenzene	T	Average RF			2.888	<=20	4.7
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF		0.050	0.1996	<=20	10.0
1,2-Dibromoethane	T	Average RF		0.100	0.3372	<=20	4.0
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	T	Average RF			0.5773	<=20	6.9
1,2-Dichlorobenzene	T	Average RF		0.400	1.523	<=20	3.5
1,2-Dichloroethane	T	Average RF		0.100	0.4388	<=20	3.7
1,2-Dichloropropane	T	Average RF		0.100	0.3058	<=20	4.5
1,3,5-Trimethylbenzene	T	Average RF			2.825	<=20	2.9
1,3-Dichlorobenzene	T	Average RF		0.600	1.633	<=20	6.4
1,3-Dichloropropane	T	Average RF			0.5498	<=20	4.4
1,4-Dichlorobenzene	T	Average RF		0.500	1.691	<=20	8.2
1,4-Dioxane	T	Average RF			0.005345	<=20	12.7
1-Butanol	T	Average RF			0.01297	<=20	13.4
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.6940	<=20	4.4
2,2-Dichloropropane	T	Average RF			0.7635	<=20	3.9
2-Butanone (MEK)	T	Average RF		0.05	0.2588	<=20	12.4
2-Chloro-1,3-butadiene	T	Average RF			0.8628	<=20	3.0
2-Chloroethyl Vinyl Ether	T	Average RF			0.2118	<=20	4.1
2-Chlorotoluene	T	Average RF			2.385	<=20	3.6
2-Hexanone	T	Average RF		0.05	0.2551	<=20	6.5
2-Methyl-1-propanol	T	Average RF			0.01849	<=20	10.9
2-Methyl-2-propanol	T	Average RF			0.08053	<=20	10.2
2-Nitropropane	T	Average RF			0.08508	<=20	9.0
2-Propanol	T	Average RF			0.04591	<=20	9.5
3-Chloro-1-propene	T	Average RF			0.2566	<=20	4.9
4-Chlorotoluene	T	Average RF			2.862	<=20	6.0
4-Isopropyltoluene	T	Average RF			3.033	<=20	4.1
4-Methyl-2-pentanone	T	Average RF		0.05	0.3051	<=20	5.7
Acetone	T	Average RF		0.05	0.1757	<=20	19.9
Acetonitrile	T	Average RF			0.02733	<=20	15.2
Acrolein	T	Average RF			0.08835	<=20	7.0
Acrylonitrile	T	Average RF			0.1848	<=20	6.0
Benzene	T	Average RF		0.500	1.227	<=20	6.1
Bromobenzene	T	Average RF			0.8153	<=20	4.5
Bromochloromethane	T	Average RF			0.3240	<=20	4.2
Bromodichloromethane	T	Average RF		0.200	0.4201	<=20	3.0
Bromoform	T	Average RF		0.100	0.2196	<=20	8.3
Bromomethane	T	Average RF		0.100	0.3800	<=20	17.9
Carbon Disulfide	T	Average RF		0.100	1.595	<=20	13.3
Carbon Tetrachloride	T	Average RF		0.05	0.1196	<=20	5.1
Chlorobenzene	T	Average RF		0.500	0.9963	<=20	7.2

Initial Calibration - Summary Report

Calibration ID: RC1500027 **Instrument ID:** R-MS-14
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Chloroethane	T	Average RF		0.100	0.3529	<=20	10.5
Chloroform	T	Average RF		0.200	0.9191	<=20	3.2
Chloromethane	T	Average RF		0.100	0.4569	<=20	17.7
Cyclohexane	T	Average RF		0.100	0.2759	<=20	5.1
Cyclohexanone	T	Average RF			0.03687	<=20	10.0
Dibromochloromethane	T	Average RF		0.100	0.3459	<=20	4.7
Dibromomethane	T	Average RF			0.2004	<=20	3.2
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.3082	<=20	8.4
Dichlorofluoromethane (CFC 21)	T	Average RF			0.9502	<=20	9.3
Dichloromethane	T	Average RF		0.100	0.5461	<=20	14.0
Diethyl Ether	T	Average RF			0.4027	<=20	5.2
Diisopropyl Ether	T	Average RF			1.468	<=20	3.4
Ethyl Methacrylate	T	Average RF			0.4313	<=20	5.7
Ethyl tert-Butyl Ether	T	Average RF			1.561	<=20	4.0
Ethylbenzene	T	Average RF		0.100	0.5354	<=20	6.6
Hexachlorobutadiene	T	Average RF			0.5195	<=20	7.3
Iodomethane	T	Average RF			0.4702	<=20	12.5
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.650	<=20	3.0
Methacrylonitrile	T	Average RF			0.2322	<=20	10.2
Methyl Acetate	T	Average RF		0.100	0.3729	<=20	8.2
Methyl Methacrylate	T	Average RF			0.2419	<=20	7.5
Methyl tert-Butyl Ether	T	Average RF		0.100	1.538	<=20	4.5
Methylcyclohexane	T	Average RF		0.100	0.4259	<=20	6.8
Naphthalene	T	Average RF			3.039	<=20	6.8
Propionitrile	T	Average RF			0.07571	<=20	7.1
Styrene	T	Average RF		0.300	1.087	<=20	1.6
Tetrachloroethene (PCE)	T	Average RF		0.200	0.2902	<=20	9.7
Tetrahydrofuran (THF)	T	Average RF			0.1644	<=20	16.5
Toluene	T	Average RF		0.400	1.452	<=20	15.2
Trichloroethene (TCE)	T	Average RF		0.200	0.3220	<=20	8.8
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.7427	<=20	8.6
Vinyl Acetate	T	Average RF			0.1205	<=20	5.7
Vinyl Chloride	T	Average RF		0.100	0.4803	<=20	3.8
cis-1,2-Dichloroethene	T	Average RF		0.100	0.5771	<=20	6.2
cis-1,3-Dichloropropene	T	Average RF		0.200	0.5065	<=20	3.6
m,p-Xylenes	T	Average RF		0.100	0.6485	<=20	4.3
n-Butyl Acetate	T	Average RF			0.5364	<=20	4.7
n-Butylbenzene	T	Average RF			3.041	<=20	6.0
n-Heptane	T	Average RF			0.3819	<=20	10.6
n-Propylbenzene	T	Average RF			4.149	<=20	3.9
o-Xylene	T	Average RF		0.300	0.6224	<=20	2.1
sec-Butylbenzene	T	Average RF			3.786	<=20	4.9
tert-Amyl Methyl Ether	T	Average RF			1.473	<=20	4.1
tert-Butylbenzene	T	Average RF			2.434	<=20	3.9
trans-1,2-Dichloroethene	T	Average RF		0.100	0.5147	<=20	8.5
trans-1,3-Dichloropropene	T	Average RF		0.100	0.4614	<=20	3.9
trans-1,4-Dichloro-2-butene	T	Average RF			0.1355	<=20	6.5
1,2-Dichloroethane-d4	S	Average RF			0.3767	<=20	13.6
4-Bromofluorobenzene	S	Average RF			0.4802	<=20	16.0
Dibromofluoromethane	S	Average RF			0.3192	<=20	11.8
Toluene-d8	S	Average RF			1.214	<=20	13.2

00231

Initial Calibration - Summary Report

BJ 032415

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,1,1,2-Tetrachloroethane	T	Average RF			0.3358	<=20	9.4
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.8073	<=20	9.6
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	1.152	<=20	4.0
1,1,2-Trichloroethane	T	Average RF		0.100	0.3322	<=20	6.6
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.4580	<=20	9.5
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.9014	<=20	8.0
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.5147	<=20	12.0
1,1-Dichloropropene	T	Average RF			0.4030	<=20	8.2
1,2,3-Trichlorobenzene	T	Average RF			0.7294	<=20	6.7
1,2,3-Trichloropropane	T	Average RF			0.3508	<=20	3.1
1,2,4-Trichlorobenzene	T	Average RF		0.200	0.8770	<=20	7.5
1,2,4-Trimethylbenzene	T	Average RF			2.732	<=20	7.4
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF		0.050	0.2032	<=20	11.2
1,2-Dibromoethane	T	Average RF		0.100	0.3973	<=20	5.9
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC	T	Average RF				<=20	
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	T	Average RF			0.6491	<=20	5.5
1,2-Dichlorobenzene	T	Average RF		0.400	1.565	<=20	4.0
1,2-Dichloroethane	T	Average RF		0.100	0.5001	<=20	3.8
1,2-Dichloropropane	T	Average RF		0.100	0.3245	<=20	7.5
1,3,5-Trichlorobenzene	T	Average RF			1.007	<=20	5.0
1,3,5-Trimethylbenzene	T	Average RF			2.667	<=20	8.0
1,3-Dichlorobenzene	T	Average RF		0.600	1.560	<=20	5.5
1,3-Dichloropropane	T	Average RF			0.6390	<=20	3.3
1,4-Dichlorobenzene	T	Average RF		0.500	1.647	<=20	7.2
1,4-Dioxane	T	Average RF			0.006364	<=20	17.3
1-Butanol	T	Average RF			0.01403	<=20	17.9
1-Chloro-4-(trifluoromethyl)benzene	T	Average RF			0.4141	<=20	5.9
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.7821	<=20	8.4
2,2-Dichloropropane	T	Average RF			0.7460	<=20	8.1
2,3,6-Trichlorotoluene	T	Average RF			0.3085	<=20	14.0
2,4,5-Trichlorotoluene	T	Average RF			0.3443	<=20	9.8
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	T	Average RF			1.310	<=20	5.5
2,4-Dichlorobenzotrifluoride	T	Average RF			0.6228	<=20	7.7
2,5-Dichlorobenzotrifluoride	T	Average RF			0.7062	<=20	3.5
2-Butanone (MEK)	T	Average RF		0.05	0.3544	<=20	15.9
2-Chloro-1,3-butadiene	T	Average RF			0.8729	<=20	7.0
2-Chlorobenzotrifluoride	T	Average RF			0.4623	<=20	4.9
2-Chloroethyl Vinyl Ether	T	Average RF			0.2544	<=20	6.6
2-Chlorotoluene	T	Average RF			2.372	<=20	7.2
2-Hexanone	T	Average RF		0.05	0.3398	<=20	5.6
2-Methyl-1-propanol	T	Average RF			0.02117	<=20	11.9
2-Methyl-2-propanol	T	Average RF			0.09190	<=20	8.0
2-Nitropropane	T	Average RF			0.1112	<=20	10.2
2-Propanol	T	Average RF			0.05731	<=20	7.6
3,4- and 2,3-Dichlorotoluene Coelution	T	Average RF			1.390	<=20	7.6
3,4-Dichlorobenzotrifluoride	T	Average RF			0.6726	<=20	3.8
3-Chloro-1-propene	T	Average RF			0.2740	<=20	8.7
3-Chlorobenzotrifluoride	T	Average RF			0.4711	<=20	3.9
3-Chlorotoluene	T	Average RF			2.399	<=20	4.2
4-Chlorotoluene	T	Average RF			2.756	<=20	5.9
4-Ethyltoluene	T	Average RF				<=20	
4-Isopropyltoluene	T	Average RF			2.742	<=20	13.0

00233

Initial Calibration - Summary Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
4-Methyl-2-pentanone	T	Average RF		0.05	0.4057	<=20	7.0
Acetone	T	Average RF		0.05	0.2505	<=20	14.5
Acetonitrile	T	Average RF			0.05308	<=20	8.7
Acrolein	T	Average RF			0.1265	<=20	7.9
Acrylonitrile	T	Average RF			0.2716	<=20	4.8
Benzene	T	Average RF		0.500	1.301	<=20	7.9
Benzyl Chloride	T	Average RF				<=20	
Bromobenzene	T	Average RF			0.8237	<=20	5.2
Bromochloromethane	T	Average RF			0.3558	<=20	3.7
Bromodichloromethane	T	Average RF		0.200	0.4362	<=20	7.3
Bromoform	T	Average RF		0.100	0.2475	<=20	16.3
Bromomethane	T	Average RF		0.100	0.3406	<=20	19.1
Carbon Disulfide	T	Average RF		0.100	1.431	<=20	10.6
Carbon Tetrachloride	T	Average RF		0.05	0.1099	<=20	14.8
Chlorobenzene	T	Average RF		0.500	1.015	<=20	6.6
Chloroethane	T	Average RF		0.100	0.3968	<=20	8.1
Chloroform	T	Average RF		0.200	0.9592	<=20	5.2
Chloromethane	T	Average RF		0.100	0.5821	<=20	8.7
Cyclohexane	T	Average RF		0.100	0.2759	<=20	10.6
Cyclohexanone	T	Average RF			0.03360	<=20	9.1
Dibromochloromethane	T	Average RF		0.100	0.3641	<=20	11.0
Dibromomethane	T	Average RF			0.2267	<=20	6.4
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.5530	<=20	11.0
Dichlorofluoromethane (CFC 21)	T	Average RF			1.060	<=20	8.7
Dichloromethane	T	Average RF		0.100	0.5841	<=20	10.3
Diethyl Ether	T	Average RF			0.4800	<=20	6.2
Diisopropyl Ether	T	Average RF			1.550	<=20	3.8
Ethyl Methacrylate	T	Average RF			0.5156	<=20	8.8
Ethyl tert-Butyl Ether	T	Average RF			1.670	<=20	4.6
Ethylbenzene	T	Average RF		0.100	0.5428	<=20	9.7
Hexachlorobutadiene	T	Average RF			0.3135	<=20	19.4
Iodomethane	T	Average RF			0.5400	<=20	14.0
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.625	<=20	10.0
Methacrylonitrile	T	Average RF			0.3065	<=20	4.7
Methyl Acetate	T	Average RF		0.100	0.5206	<=20	8.8
Methyl Methacrylate	T	Average RF			0.2969	<=20	6.9
Methyl tert-Butyl Ether	T	Average RF		0.100	1.724	<=20	3.7
Methylcyclohexane	T	Average RF		0.100	0.3937	<=20	5.9
Naphthalene	T	Average RF			2.413	<=20	6.8
Propionitrile	T	Average RF			0.1112	<=20	5.7
Styrene	T	Average RF		0.300	1.092	<=20	7.8
Tetrachloroethene (PCE)	T	Average RF		0.200	0.2769	<=20	10.3
Tetrahydrofuran (THF)	T	Average RF			0.2144	<=20	11.0
Toluene	T	Average RF		0.400	1.390	<=20	7.0
Trichloroethene (TCE)	T	Average RF		0.200	0.3262	<=20	8.3
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.7962	<=20	8.0
Vinyl Acetate	T	Average RF			0.1317	<=20	16.0
Vinyl Chloride	T	Average RF		0.100	0.6056	<=20	7.0
cis-1,2-Dichloroethene	T	Average RF		0.100	0.5919	<=20	5.7
cis-1,3-Dichloropropene	T	Average RF		0.200	0.5166	<=20	8.5
m,p-Xylenes	T	Average RF		0.100	0.6504	<=20	8.6
n-Butyl Acetate	T	Average RF			0.6799	<=20	6.7

Initial Calibration - Summary Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
n-Butylbenzene	T	Average RF			2.582	<=20	14.6
n-Heptane	T	Quadratic	1/X		0.3015	>=0.99	0.9914
n-Propylbenzene	T	Average RF			3.849	<=20	9.4
o-Xylene	T	Average RF		0.300	0.6449	<=20	7.4
sec-Butylbenzene	T	Average RF			3.329	<=20	13.0
tert-Amyl Methyl Ether	T	Average RF			1.623	<=20	3.9
tert-Butylbenzene	T	Average RF			2.261	<=20	11.3
trans-1,2-Dichloroethene	T	Average RF		0.100	0.5316	<=20	9.5
trans-1,3-Dichloropropene	T	Average RF		0.100	0.4854	<=20	10.2
trans-1,4-Dichloro-2-butene	T	Average RF			0.1568	<=20	11.6
1,2-Dichloroethane-d4	S	Average RF			0.3822	<=20	3.7
4-Bromofluorobenzene	S	Average RF			0.4520	<=20	4.1
Dibromofluoromethane	S	Average RF			0.3047	<=20	4.1
Toluene-d8	S	Average RF			1.148	<=20	3.7

BV 03/24/15

Initial Calibration - Detailed Report

Calibration ID:	RC1500028	**Instrument ID:**	R-MS-14
		Signal ID:	1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1500028-01	0.5 ppb	I:\ACQUDATA\MSVOA14\Data\032015\B9939.D	3/20/15 16:11
02	RC1500028-02	1 ppb	I:\ACQUDATA\MSVOA14\Data\032015\B9940.D	3/20/15 16:35
03	RC1500028-03	2 ppb	I:\ACQUDATA\MSVOA14\Data\032015\B9941.D	3/20/15 16:59
04	RC1500028-04	5 ppb	I:\ACQUDATA\MSVOA14\Data\032015\B9942.D	3/20/15 17:23
05	RC1500028-05	20 ppb	I:\ACQUDATA\MSVOA14\Data\032015\B9943.D	3/20/15 17:47
06	RC1500028-06	50 ppb	I:\ACQUDATA\MSVOA14\Data\032015\B9944.D	3/20/15 18:11
07	RC1500028-07	100 ppb	I:\ACQUDATA\MSVOA14\Data\032015\B9945.D	3/20/15 18:35
08	RC1500028-08	150 ppb	I:\ACQUDATA\MSVOA14\Data\032015\B9946.D	3/20/15 18:59
09	RC1500028-09	200 ppb	I:\ACQUDATA\MSVOA14\Data\032015\B9947.D	3/20/15 19:23

Analyte — **Curve Fit** — **Weighting**

1,1,1,2-Tetrachloroethane — Average RF — RSD = 9.4 — Average RF = 0.3358

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3687	02	1.000	0.3042	03	2.000	0.2821	04	5.000	0.3220
05	20.000	0.3233	06	50.000	0.3385	07	100.000	0.3447	08	150.000	0.3826
09	200.000	0.3565									

1,1,1-Trichloroethane (TCA) — Average RF — RSD = 9.6 — Average RF = 0.8073

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8980	02	1.000	0.8317	03	2.000	0.7264	04	5.000	0.7973
05	20.000	0.6547	06	50.000	0.8049	07	100.000	0.8200	08	150.000	0.9014
09	200.000	0.8318									

1,1,2,2-Tetrachloroethane — Average RF — RSD = 4.0 — Average RF = 1.152

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.169	02	1.000	1.146	03	2.000	1.071	04	5.000	1.140
05	20.000	1.242	06	50.000	1.134	07	100.000	1.122	08	150.000	1.181
09	200.000	1.162									

1,1,2-Trichloroethane — Average RF — RSD = 6.6 — Average RF = 0.3322

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3104	02	1.000	0.3495	03	2.000	0.2921	04	5.000	0.3199
05	20.000	0.3392	06	50.000	0.3391	07	100.000	0.3338	08	150.000	0.3666
09	200.000	0.3394									

1,1,2-Trichlorotrifluoroethane — Average RF — RSD = 9.5 — Average RF = 0.4580

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4835	02	1.000	0.4714	03	2.000	0.4472	04	5.000	0.4520
05	20.000	0.3536	06	50.000	0.4606	07	100.000	0.4607	08	150.000	0.5101
09	200.000	0.4833									

1,1-Dichloroethane (1,1-DCA) — Average RF — RSD = 8.0 — Average RF = 0.9014

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.009	02	1.000	0.9425	03	2.000	0.7829	04	5.000	0.8717
05	20.000	0.8121	06	50.000	0.9108	07	100.000	0.9007	08	150.000	0.9754
09	200.000	0.9068									

1,1-Dichloroethene (1,1-DCE) — Average RF — RSD = 12.0 — Average RF = 0.5147

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6421	02	1.000	0.5533	03	2.000	0.4887	04	5.000	0.4808
05	20.000	0.4167	06	50.000	0.4967	07	100.000	0.4939	08	150.000	0.5443
09	200.000	0.5160									

Initial Calibration - Detailed Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte **Curve Fit** **Weighting**

1,1-Dichloropropene Average RF RSD = 8.2 Average RF = 0.4030

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4127	02	1.000	0.4104	03	2.000	0.3822	04	5.000	0.4159
05	20.000	0.3322	06	50.000	0.3940	07	100.000	0.4048	08	150.000	0.4551
09	200.000	0.4195									

1,2,3-Trichlorobenzene Average RF RSD = 6.7 Average RF = 0.7294

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7481	02	1.000	0.7839	03	2.000	0.7234	04	5.000	0.6990
05	20.000	0.6492	06	50.000	0.6890	07	100.000	0.7073	08	150.000	0.7996
09	200.000	0.7649									

1,2,3-Trichloropropane Average RF RSD = 3.1 Average RF = 0.3508

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3546	02	1.000	0.3541	03	2.000	0.3446	04	5.000	0.3480
05	20.000	0.3745	06	50.000	0.3416	07	100.000	0.3392	08	150.000	0.3562
09	200.000	0.3446									

1,2,4-Trichlorobenzene Average RF RSD = 7.5 Average RF = 0.8770

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8928	02	1.000	0.9133	03	2.000	0.8300	04	5.000	0.8957
05	20.000	0.7442	06	50.000	0.8477	07	100.000	0.8689	08	150.000	0.9778
09	200.000	0.9228									

1,2,4-Trimethylbenzene Average RF RSD = 7.4 Average RF = 2.732

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.872	02	1.000	2.799	03	2.000	2.622	04	5.000	2.768
05	20.000	2.253	06	50.000	2.753	07	100.000	2.727	08	150.000	2.958
09	200.000	2.832									

1,2-Dibromo-3-chloropropane (DBCP) Average RF RSD = 11.2 Average RF = 0.2032

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1650	02	1.000	0.1937	03	2.000	0.1795	04	5.000	0.1943
05	20.000	0.2171	06	50.000	0.2022	07	100.000	0.2140	08	150.000	0.2358
09	200.000	0.2271									

1,2-Dibromoethane Average RF RSD = 5.9 Average RF = 0.3973

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3527	02	1.000	0.3882	03	2.000	0.3795	04	5.000	0.3895
05	20.000	0.4166	06	50.000	0.4042	07	100.000	0.4024	08	150.000	0.4354
09	200.000	0.4068									

1,2-Dichloro-1,1,2-trifluoroethane (CFC Average RF RSD = 5.5 Average RF = 0.6491

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7158	02	1.000	0.6665	03	2.000	0.6066	04	5.000	0.6303
05	20.000	0.6639	06	50.000	0.6501	07	100.000	0.6105	08	150.000	0.6768
09	200.000	0.6212									

1,2-Dichlorobenzene Average RF RSD = 4.0 Average RF = 1.565

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.624	02	1.000	1.600	03	2.000	1.523	04	5.000	1.600
05	20.000	1.472	06	50.000	1.531	07	100.000	1.514	08	150.000	1.668
09	200.000	1.550									

Initial Calibration - Detailed Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte	Curve Fit	Weighting

1,2-Dichloroethane — Average RF — RSD = 3.8 — Average RF = 0.5001

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5111	02	1.000	0.5218	03	2.000	0.4681	04	5.000	0.5028
05	20.000	0.4941	06	50.000	0.4975	07	100.000	0.4858	08	150.000	0.5311
09	200.000	0.4891									

1,2-Dichloroethane-d4 — Average RF — RSD = 3.7 — Average RF = 0.3822

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3968	05	20.000	0.3619	06	50.000	0.3902	07	100.000	0.3887
08	200.000	0.3731									

1,2-Dichloropropane — Average RF — RSD = 7.5 — Average RF = 0.3245

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3414	02	1.000	0.3544	03	2.000	0.2820	04	5.000	0.3175
05	20.000	0.3009	06	50.000	0.3218	07	100.000	0.3195	08	150.000	0.3571
09	200.000	0.3254									

1,3,5-Trichlorobenzene — Average RF — RSD = 5.0 — Average RF = 1.007

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9166	02	1.000	1.014	03	2.000	0.9770	04	5.000	1.031
05	20.000	1.004	06	50.000	0.9964	07	100.000	0.9877	08	150.000	1.106
09	200.000	1.032									

1,3,5-Trimethylbenzene — Average RF — RSD = 8.0 — Average RF = 2.667

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.741	02	1.000	2.729	03	2.000	2.558	04	5.000	2.783
05	20.000	2.158	06	50.000	2.657	07	100.000	2.692	08	150.000	2.894
09	200.000	2.787									

1,3-Dichlorobenzene — Average RF — RSD = 5.5 — Average RF = 1.560

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.584	02	1.000	1.707	03	2.000	1.483	04	5.000	1.574
05	20.000	1.420	06	50.000	1.533	07	100.000	1.530	08	150.000	1.652
09	200.000	1.562									

1,3-Dichloropropane — Average RF — RSD = 3.3 — Average RF = 0.6390

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6380	02	1.000	0.6498	03	2.000	0.6026	04	5.000	0.6399
05	20.000	0.6580	06	50.000	0.6279	07	100.000	0.6277	08	150.000	0.6767
09	200.000	0.6301									

1,4-Dichlorobenzene — Average RF — RSD = 7.2 — Average RF = 1.647

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.865	02	1.000	1.767	03	2.000	1.617	04	5.000	1.631
05	20.000	1.485	06	50.000	1.567	07	100.000	1.556	08	150.000	1.726
09	200.000	1.611									

1,4-Dioxane — Average RF — RSD = 17.3 — Average RF = 0.006364

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.004021	02	20.000	0.006462	03	40.000	0.005464	04	100.000	0.006087
05	400.000	0.006966	06	1000.000	0.006553	07	2000.000	0.006755	08	3000.000	0.007844
09	4000.000	0.007125									

Initial Calibration - Detailed Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte **Curve Fit** **Weighting**

1-Butanol Average RF RSD = 17.9 Average RF = 0.01403

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	25.000	0.01056	02	50.000	0.01212	03	100.000	0.01215	04	250.000	0.01222
05	1000.000	0.01489	06	2500.000	0.01389	07	5000.000	0.01535	08	7500.000	0.01812
09	10000.000	0.01699									

1-Chloro-4-(trifluoromethyl)benzene Average RF RSD = 5.9 Average RF = 0.4141

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3784	02	1.000	0.4429	03	2.000	0.3844	04	5.000	0.4328
05	20.000	0.4203	06	50.000	0.4021	07	100.000	0.3994	08	150.000	0.4467
09	200.000	0.4196									

2,2-Dichloro-1,1,1-trifluoroethane (CFC Average RF RSD = 8.4 Average RF = 0.7821

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9115	02	1.000	0.7970	03	2.000	0.6727	04	5.000	0.7528
05	20.000	0.7996	06	50.000	0.7806	07	100.000	0.7431	08	150.000	0.8286
09	200.000	0.7527									

2,2-Dichloropropane Average RF RSD = 8.1 Average RF = 0.7460

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8443	02	1.000	0.7605	03	2.000	0.7182	04	5.000	0.7277
05	20.000	0.6265	06	50.000	0.7415	07	100.000	0.7441	08	150.000	0.8082
09	200.000	0.7432									

2,3,6-Trichlorotoluene Average RF RSD = 14.0 Average RF = 0.3085

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2091	02	1.000	0.3441	03	2.000	0.3096	04	5.000	0.3003
05	20.000	0.2951	06	50.000	0.3063	07	100.000	0.3118	08	150.000	0.3523
09	200.000	0.3482									

2,4,5-Trichlorotoluene Average RF RSD = 9.8 Average RF = 0.3443

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3052	02	1.000	0.3382	03	2.000	0.3073	04	5.000	0.3187
05	20.000	0.3385	06	50.000	0.3434	07	100.000	0.3560	08	150.000	0.3969
09	200.000	0.3942									

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut Average RF RSD = 5.5 Average RF = 1.310

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.500	1.207	02	3.000	1.339	03	6.000	1.234	04	15.000	1.280
05	60.000	1.308	06	150.000	1.306	07	300.000	1.307	08	450.000	1.457
09	600.000	1.355									

2,4-Dichlorobenzotrifluoride Average RF RSD = 7.7 Average RF = 0.6228

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7234	02	1.000	0.6271	03	2.000	0.5422	04	5.000	0.6258
05	20.000	0.6151	06	50.000	0.6107	07	100.000	0.5930	08	150.000	0.6512
09	200.000	0.6164									

2,5-Dichlorobenzotrifluoride Average RF RSD = 3.5 Average RF = 0.7062

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7110	02	1.000	0.7511	03	2.000	0.7043	04	5.000	0.6834
05	20.000	0.7109	06	50.000	0.6914	07	100.000	0.6741	08	150.000	0.7351
09	200.000	0.6940									

Initial Calibration - Detailed Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte **Curve Fit** **Weighting**

2-Butanone (MEK) Average RF RSD = 15.9 Average RF = 0.3544

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4540	02	1.000	0.4501	03	2.000	0.3173	04	5.000	0.3237
05	20.000	0.3419	06	50.000	0.3128	07	100.000	0.3179	08	150.000	0.3402
09	200.000	0.3313									

2-Chloro-1,3-butadiene Average RF RSD = 7.0 Average RF = 0.8729

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9304	02	1.000	0.8740	03	2.000	0.8276	04	5.000	0.8713
05	20.000	0.7464	06	50.000	0.8766	07	100.000	0.8791	08	150.000	0.9657
09	200.000	0.8854									

2-Chlorobenzotrifluoride Average RF RSD = 4.9 Average RF = 0.4623

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4495	02	1.000	0.4783	03	2.000	0.4289	04	5.000	0.4625
05	20.000	0.4670	06	50.000	0.4518	07	100.000	0.4458	08	150.000	0.5078
09	200.000	0.4688									

2-Chloroethyl Vinyl Ether Average RF RSD = 6.6 Average RF = 0.2544

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2358	02	1.000	0.2381	03	2.000	0.2364	04	5.000	0.2520
05	20.000	0.2571	06	50.000	0.2568	07	100.000	0.2598	08	150.000	0.2878
09	200.000	0.2658									

2-Chlorotoluene Average RF RSD = 7.2 Average RF = 2.372

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.617	02	1.000	2.613	03	2.000	2.308	04	5.000	2.417
05	20.000	2.072	06	50.000	2.305	07	100.000	2.269	08	150.000	2.429
09	200.000	2.317									

2-Hexanone Average RF RSD = 5.6 Average RF = 0.3398

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3287	02	1.000	0.3693	03	2.000	0.3273	04	5.000	0.3229
05	20.000	0.3519	06	50.000	0.3149	07	100.000	0.3317	08	150.000	0.3633
09	200.000	0.3481									

2-Methyl-1-propanol Average RF RSD = 11.9 Average RF = 0.02117

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.02007	02	20.000	0.02293	03	40.000	0.01718	04	100.000	0.01820
05	400.000	0.02193	06	1000.000	0.01997	07	2000.000	0.02198	08	3000.000	0.02500
09	4000.000	0.02326									

2-Methyl-2-propanol Average RF RSD = 8.0 Average RF = 0.09190

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.08083	02	20.000	0.09209	03	40.000	0.08631	04	100.000	0.08488
05	400.000	0.09805	06	1000.000	0.08841	07	2000.000	0.09437	08	3000.000	0.1032
09	4000.000	0.09896									

2-Nitropropane Average RF RSD = 10.2 Average RF = 0.1112

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.1236	02	2.000	0.1096	03	4.000	0.1001	04	10.000	0.09183
05	40.000	0.1073	06	100.000	0.1065	07	200.000	0.1139	08	300.000	0.1255
09	400.000	0.1224									

Initial Calibration - Detailed Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte	Curve Fit	Weighting

2-Propanol — Average RF — RSD = 7.6 — Average RF = 0.05731

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.05701	02	20.000	0.06595	03	40.000	0.05452	04	100.000	0.05141
05	400.000	0.05819	06	1000.000	0.05354	07	2000.000	0.05562	08	3000.000	0.06144
09	4000.000	0.05808									

3,4- and 2,3-Dichlorotoluene Coelution — Average RF — RSD = 7.6 — Average RF = 1.390

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.223	02	2.000	1.414	03	4.000	1.246	04	10.000	1.384
05	40.000	1.417	06	100.000	1.384	07	200.000	1.402	08	300.000	1.573
09	400.000	1.464									

3,4-Dichlorobenzotrifluoride — Average RF — RSD = 3.8 — Average RF = 0.6726

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6828	02	1.000	0.7028	03	2.000	0.6267	04	5.000	0.6590
05	20.000	0.6819	06	50.000	0.6733	07	100.000	0.6511	08	150.000	0.7079
09	200.000	0.6680									

3-Chloro-1-propene — Average RF — RSD = 8.7 — Average RF = 0.2740

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3113	02	1.000	0.2538	03	2.000	0.2716	04	5.000	0.2659
05	20.000	0.2590	06	50.000	0.2798	07	100.000	0.2970	08	150.000	0.2931
09	200.000	0.2347									

3-Chlorobenzotrifluoride — Average RF — RSD = 3.9 — Average RF = 0.4711

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4920	02	1.000	0.4553	03	2.000	0.4725	04	5.000	0.4737
05	20.000	0.4793	06	50.000	0.4528	07	100.000	0.4467	08	150.000	0.5016
09	200.000	0.4662									

3-Chlorotoluene — Average RF — RSD = 4.2 — Average RF = 2.399

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.354	02	1.000	2.571	03	2.000	2.263	04	5.000	2.432
05	20.000	2.499	06	50.000	2.366	07	100.000	2.284	08	150.000	2.470
09	200.000	2.357									

4-Bromofluorobenzene — Average RF — RSD = 4.1 — Average RF = 0.4520

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.4449	05	20.000	0.4230	06	50.000	0.4648	07	100.000	0.4685
08	200.000	0.4587									

4-Chlorotoluene — Average RF — RSD = 5.9 — Average RF = 2.756

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.865	02	1.000	2.984	03	2.000	2.696	04	5.000	2.768
05	20.000	2.414	06	50.000	2.694	07	100.000	2.696	08	150.000	2.904
09	200.000	2.785									

4-Isopropyltoluene — Average RF — RSD = 13.0 — Average RF = 2.742

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.005	02	1.000	2.898	03	2.000	2.667	04	5.000	2.827
05	20.000	1.868	06	50.000	2.673	07	100.000	2.741	08	150.000	3.053
09	200.000	2.942									

Initial Calibration - Detailed Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte	Curve Fit	Weighting									
4-Methyl-2-pentanone	Average RF			RSD = 7.0			Average RF = 0.4057				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4464	02	1.000	0.4186	03	2.000	0.3706	04	5.000	0.3645
05	20.000	0.4094	06	50.000	0.3891	07	100.000	0.3967	08	150.000	0.4416
09	200.000	0.4145									
Acetone	Average RF			RSD = 14.5			Average RF = 0.2505				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.3200	04	5.000	0.2762	05	20.000	0.2377	06	50.000	0.2186
07	100.000	0.2199	08	150.000	0.2492	09	200.000	0.2318			
Acetonitrile	Average RF			RSD = 8.7			Average RF = 0.05308				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.06037	02	5.000	0.04814	03	10.000	0.05144	04	25.000	0.05140
05	100.000	0.05936	06	250.000	0.04770	07	500.000	0.05057	08	750.000	0.05675
09	1000.000	0.05202									
Acrolein	Average RF			RSD = 7.9			Average RF = 0.1265				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1084	02	5.000	0.1299	03	10.000	0.1180	04	25.000	0.1193
05	100.000	0.1319	06	250.000	0.1282	07	500.000	0.1251	08	750.000	0.1400
09	1000.000	0.1374									
Acrylonitrile	Average RF			RSD = 4.8			Average RF = 0.2716				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2621	02	5.000	0.2556	03	10.000	0.2631	04	25.000	0.2619
05	100.000	0.2854	06	250.000	0.2693	07	500.000	0.2736	08	750.000	0.2967
09	1000.000	0.2764									
Benzene	Average RF			RSD = 7.9			Average RF = 1.301				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.491	02	1.000	1.365	03	2.000	1.243	04	5.000	1.256
05	20.000	1.143	06	50.000	1.261	07	100.000	1.263	08	150.000	1.399
09	200.000	1.290									
Bromobenzene	Average RF			RSD = 5.2			Average RF = 0.8237				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7948	02	1.000	0.9247	03	2.000	0.7817	04	5.000	0.8345
05	20.000	0.8056	06	50.000	0.8196	07	100.000	0.8011	08	150.000	0.8459
09	200.000	0.8049									
Bromochloromethane	Average RF			RSD = 3.7			Average RF = 0.3558				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3384	02	1.000	0.3621	03	2.000	0.3565	04	5.000	0.3628
05	20.000	0.3657	06	50.000	0.3695	07	100.000	0.3427	08	150.000	0.3677
09	200.000	0.3364									
Bromodichloromethane	Average RF			RSD = 7.3			Average RF = 0.4362				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4332	02	1.000	0.4314	03	2.000	0.3823	04	5.000	0.4140
05	20.000	0.4190	06	50.000	0.4414	07	100.000	0.4456	08	150.000	0.4951
09	200.000	0.4639									

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Initial Calibration - Detailed Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Bromoform Average RF RSD = 16.3 Average RF = 0.2475

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1923	02	1.000	0.2252	03	2.000	0.2046	04	5.000	0.2180
05	20.000	0.2551	06	50.000	0.2557	07	100.000	0.2763	08	150.000	0.3107
09	200.000	0.2892									

Bromomethane Average RF RSD = 19.1 Average RF = 0.3406

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4404	02	1.000	0.4270	03	2.000	0.3922	04	5.000	0.3200
05	20.000	0.3463	06	50.000	0.3055	07	100.000	0.2750	08	150.000	0.2699
09	200.000	0.2891									

Carbon Disulfide Average RF RSD = 10.6 Average RF = 1.431

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.395	02	1.000	1.410	03	2.000	1.237	04	5.000	1.368
05	20.000	1.230	06	50.000	1.474	07	100.000	1.487	08	150.000	1.707
09	200.000	1.573									

Carbon Tetrachloride Average RF RSD = 14.8 Average RF = 0.1099

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.08262	02	1.000	0.1133	03	2.000	0.09843	04	5.000	0.1152
05	20.000	0.09063	06	50.000	0.1141	07	100.000	0.1174	08	150.000	0.1339
09	200.000	0.1235									

Chlorobenzene Average RF RSD = 6.6 Average RF = 1.015

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.140	02	1.000	1.083	03	2.000	0.9631	04	5.000	0.9936
05	20.000	0.9382	06	50.000	0.9712	07	100.000	0.9775	08	150.000	1.070
09	200.000	1.001									

Chloroethane Average RF RSD = 8.1 Average RF = 0.3968

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4204	02	1.000	0.4032	03	2.000	0.3434	04	5.000	0.4015
05	20.000	0.3582	06	50.000	0.3958	07	100.000	0.3906	08	150.000	0.4541
09	200.000	0.4039									

Chloroform Average RF RSD = 5.2 Average RF = 0.9592

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9717	02	1.000	1.012	03	2.000	0.9105	04	5.000	0.9126
05	20.000	0.8850	06	50.000	0.9688	07	100.000	0.9621	08	150.000	1.041
09	200.000	0.9690									

Chloromethane Average RF RSD = 8.7 Average RF = 0.5821

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6651	02	1.000	0.6144	03	2.000	0.5271	04	5.000	0.5314
05	20.000	0.5251	06	50.000	0.5738	07	100.000	0.5693	08	150.000	0.6399
09	200.000	0.5925									

Cyclohexane Average RF RSD = 10.6 Average RF = 0.2759

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3484	02	1.000	0.2761	03	2.000	0.2546	04	5.000	0.2671
05	20.000	0.2794	06	50.000	0.2641	07	100.000	0.2548	08	150.000	0.2831
09	200.000	0.2558									

Initial Calibration - Detailed Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Signal ID: 1

Cyclohexanone — Curve Fit: Average RF — Weighting: RSD = 9.1 — Average RF = 0.03360

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.02883	02	20.000	0.03775	03	40.000	0.03198	04	100.000	0.03230
05	400.000	0.03302	06	1000.000	0.03142	07	2000.000	0.03348	08	3000.000	0.03822
09	4000.000	0.03543									

Dibromochloromethane — Curve Fit: Average RF — Weighting: RSD = 11.0 — Average RF = 0.3641

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3211	02	1.000	0.3330	03	2.000	0.3090	04	5.000	0.3481
05	20.000	0.3659	06	50.000	0.3779	07	100.000	0.3874	08	150.000	0.4300
09	200.000	0.4042									

Dibromofluoromethane — Curve Fit: Average RF — Weighting: RSD = 4.1 — Average RF = 0.3047

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3148	05	20.000	0.2844	06	50.000	0.3097	07	100.000	0.3130
08	200.000	0.3016									

Dibromomethane — Curve Fit: Average RF — Weighting: RSD = 6.4 — Average RF = 0.2267

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2102	02	1.000	0.2279	03	2.000	0.2069	04	5.000	0.2153
05	20.000	0.2309	06	50.000	0.2301	07	100.000	0.2295	08	150.000	0.2542
09	200.000	0.2355									

Dichlorodifluoromethane (CFC 12) — Curve Fit: Average RF — Weighting: RSD = 11.0 — Average RF = 0.5530

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5035	02	1.000	0.5457	03	2.000	0.4773	04	5.000	0.5067
05	20.000	0.4978	06	50.000	0.5935	07	100.000	0.5969	08	150.000	0.6545
09	200.000	0.6013									

Dichlorofluoromethane (CFC 21) — Curve Fit: Average RF — Weighting: RSD = 8.7 — Average RF = 1.060

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.245	02	1.000	1.067	03	2.000	0.9161	04	5.000	1.009
05	20.000	1.077	06	50.000	1.065	07	100.000	1.004	08	150.000	1.135
09	200.000	1.019									

Dichloromethane — Curve Fit: Average RF — Weighting: RSD = 10.3 — Average RF = 0.5841

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7152	02	1.000	0.6433	03	2.000	0.5482	04	5.000	0.5539
05	20.000	0.5272	06	50.000	0.5617	07	100.000	0.5519	08	150.000	0.6025
09	200.000	0.5533									

Diethyl Ether — Curve Fit: Average RF — Weighting: RSD = 6.2 — Average RF = 0.4800

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4398	02	1.000	0.5152	03	2.000	0.4378	04	5.000	0.4624
05	20.000	0.4836	06	50.000	0.4885	07	100.000	0.4792	08	150.000	0.5247
09	200.000	0.4889									

Diisopropyl Ether — Curve Fit: Average RF — Weighting: RSD = 3.8 — Average RF = 1.550

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.590	02	1.000	1.616	03	2.000	1.514	04	5.000	1.558
05	20.000	1.524	06	50.000	1.458	07	100.000	1.514	08	150.000	1.645
09	200.000	1.532									

Initial Calibration - Detailed Report

Calibration ID:	RC1500028	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte **Curve Fit** **Weighting**

Ethyl Methacrylate Average RF RSD = 8.8 Average RF = 0.5156

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4814	02	1.000	0.5018	03	2.000	0.4360	04	5.000	0.4855
05	20.000	0.5312	06	50.000	0.5255	07	100.000	0.5381	08	150.000	0.5917
09	200.000	0.5495									

Ethyl tert-Butyl Ether Average RF RSD = 4.6 Average RF = 1.670

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.784	02	1.000	1.671	03	2.000	1.579	04	5.000	1.670
05	20.000	1.649	06	50.000	1.599	07	100.000	1.624	08	150.000	1.801
09	200.000	1.653									

Ethylbenzene Average RF RSD = 9.7 Average RF = 0.5428

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6199	02	1.000	0.5952	03	2.000	0.4964	04	5.000	0.5413
05	20.000	0.4514	06	50.000	0.5195	07	100.000	0.5247	08	150.000	0.5898
09	200.000	0.5469									

Hexachlorobutadiene Average RF RSD = 19.4 Average RF = 0.3135

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3487	03	2.000	0.3341	04	5.000	0.3423	05	20.000	0.1753
06	50.000	0.2864	07	100.000	0.3124	08	150.000	0.3625	09	200.000	0.3462

Iodomethane Average RF RSD = 14.0 Average RF = 0.5400

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6769	02	1.000	0.5478	03	2.000	0.4519	04	5.000	0.4591
05	20.000	0.4665	06	50.000	0.5452	07	100.000	0.5409	08	150.000	0.6228
09	200.000	0.5493									

Isopropylbenzene (Cumene) Average RF RSD = 10.0 Average RF = 1.625

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.738	02	1.000	1.656	03	2.000	1.568	04	5.000	1.671
05	20.000	1.250	06	50.000	1.573	07	100.000	1.630	08	150.000	1.835
09	200.000	1.700									

Methacrylonitrile Average RF RSD = 4.7 Average RF = 0.3065

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2966	02	1.000	0.3332	03	2.000	0.2895	04	5.000	0.3018
05	20.000	0.3150	06	50.000	0.2963	07	100.000	0.3002	08	150.000	0.3231
09	200.000	0.3033									

Methyl Acetate Average RF RSD = 8.8 Average RF = 0.5206

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6279	02	1.000	0.5490	03	2.000	0.5018	04	5.000	0.4749
05	20.000	0.5239	06	50.000	0.4915	07	100.000	0.4900	08	150.000	0.5248
09	200.000	0.5009									

Methyl Methacrylate Average RF RSD = 6.9 Average RF = 0.2969

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2844	02	1.000	0.2588	03	2.000	0.2811	04	5.000	0.2955
05	20.000	0.3107	06	50.000	0.2979	07	100.000	0.3018	08	150.000	0.3305
09	200.000	0.3108									

Initial Calibration - Detailed Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Methyl tert-Butyl Ether Average RF RSD = 3.7 Average RF = 1.724

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.723	02	1.000	1.747	03	2.000	1.603	04	5.000	1.671
05	20.000	1.759	06	50.000	1.731	07	100.000	1.720	08	150.000	1.843
09	200.000	1.720									

Methylcyclohexane Average RF RSD = 5.9 Average RF = 0.3937

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4317	02	1.000	0.4134	03	2.000	0.3957	04	5.000	0.3743
05	20.000	0.4085	06	50.000	0.3803	07	100.000	0.3629	08	150.000	0.4067
09	200.000	0.3696									

Naphthalene Average RF RSD = 6.8 Average RF = 2.413

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.223	02	1.000	2.340	03	2.000	2.203	04	5.000	2.318
05	20.000	2.513	06	50.000	2.390	07	100.000	2.445	08	150.000	2.696
09	200.000	2.587									

Propionitrile Average RF RSD = 5.7 Average RF = 0.1112

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1157	02	5.000	0.1091	03	10.000	0.1076	04	25.000	0.09915
05	100.000	0.1148	06	250.000	0.1090	07	500.000	0.1110	08	750.000	0.1220
09	1000.000	0.1124									

Styrene Average RF RSD = 7.8 Average RF = 1.092

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.039	02	1.000	1.035	03	2.000	0.9795	04	5.000	1.086
05	20.000	1.023	06	50.000	1.117	07	100.000	1.123	08	150.000	1.258
09	200.000	1.164									

Tetrachloroethene (PCE) Average RF RSD = 10.3 Average RF = 0.2769

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2950	02	1.000	0.3079	03	2.000	0.2891	04	5.000	0.2876
05	20.000	0.2122	06	50.000	0.2616	07	100.000	0.2645	08	150.000	0.2959
09	200.000	0.2788									

Tetrahydrofuran (THF) Average RF RSD = 11.0 Average RF = 0.2144

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2630	02	1.000	0.2374	03	2.000	0.2145	04	5.000	0.1831
05	20.000	0.2176	06	50.000	0.1976	07	100.000	0.2018	08	150.000	0.2114
09	200.000	0.2036									

Toluene Average RF RSD = 7.0 Average RF = 1.390

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.481	02	1.000	1.425	03	2.000	1.337	04	5.000	1.372
05	20.000	1.196	06	50.000	1.361	07	100.000	1.371	08	150.000	1.545
09	200.000	1.423									

Toluene-d8 Average RF RSD = 3.7 Average RF = 1.148

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.189	05	20.000	1.086	06	50.000	1.168	07	100.000	1.174
08	200.000	1.125									

Initial Calibration - Detailed Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting** Weighting

Trichloroethene (TCE) Average RF RSD = 8.3 Average RF = 0.3262

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3667	02	1.000	0.3471	03	2.000	0.3042	04	5.000	0.3194
05	20.000	0.2784	06	50.000	0.3167	07	100.000	0.3204	08	150.000	0.3563
09	200.000	0.3263									

Trichlorofluoromethane (CFC 11) Average RF RSD = 8.0 Average RF = 0.7962

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7895	02	1.000	0.8366	03	2.000	0.7245	04	5.000	0.7957
05	20.000	0.6712	06	50.000	0.8220	07	100.000	0.8187	08	150.000	0.8894
09	200.000	0.8183									

Vinyl Acetate Average RF RSD = 16.0 Average RF = 0.1317

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.09257	02	1.000	0.1208	03	2.000	0.1075	04	5.000	0.1330
05	20.000	0.1452	06	50.000	0.1419	07	100.000	0.1369	08	150.000	0.1524
09	200.000	0.1554									

Vinyl Chloride Average RF RSD = 7.0 Average RF = 0.6056

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6350	02	1.000	0.6071	03	2.000	0.5472	04	5.000	0.5653
05	20.000	0.5509	06	50.000	0.6310	07	100.000	0.6139	08	150.000	0.6703
09	200.000	0.6294									

cis-1,2-Dichloroethene Average RF RSD = 5.7 Average RF = 0.5919

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6297	02	1.000	0.6138	03	2.000	0.5449	04	5.000	0.5690
05	20.000	0.5493	06	50.000	0.5925	07	100.000	0.5895	08	150.000	0.6435
09	200.000	0.5951									

cis-1,3-Dichloropropene Average RF RSD = 8.5 Average RF = 0.5166

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4570	02	1.000	0.5093	03	2.000	0.4761	04	5.000	0.4804
05	20.000	0.5005	06	50.000	0.5314	07	100.000	0.5430	08	150.000	0.5942
09	200.000	0.5574									

m,p-Xylenes Average RF RSD = 8.6 Average RF = 0.6504

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7327	02	2.000	0.6754	03	4.000	0.6086	04	10.000	0.6439
05	40.000	0.5459	06	100.000	0.6283	07	200.000	0.6381	08	300.000	0.7125
09	400.000	0.6685									

n-Butyl Acetate Average RF RSD = 6.7 Average RF = 0.6799

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6115	02	1.000	0.6779	03	2.000	0.6194	04	5.000	0.6629
05	20.000	0.7359	06	50.000	0.6769	07	100.000	0.6802	08	150.000	0.7431
09	200.000	0.7111									

n-Butylbenzene Average RF RSD = 14.6 Average RF = 2.582

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.818	02	1.000	2.651	03	2.000	2.486	04	5.000	2.669
05	20.000	1.663	06	50.000	2.530	07	100.000	2.619	08	150.000	2.968
09	200.000	2.830									

Initial Calibration - Detailed Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Signal ID: 1

n-Heptane — Curve Fit: Quadratic — Weighting: 1/X — COD = 0.9914 — Y = 0.01720 X² + 0.2357 X + 0.002161

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4328	02	1.000	0.3735	03	2.000	0.3075	04	5.000	0.3033
05	20.000	0.1556	06	50.000	0.2620	07	100.000	0.2735	08	150.000	0.3154
09	200.000	0.2897									

n-Propylbenzene — Average RF — RSD = 9.4 — Average RF = 3.849

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	4.295	02	1.000	3.955	03	2.000	3.847	04	5.000	3.939
05	20.000	2.971	06	50.000	3.773	07	100.000	3.842	08	150.000	4.081
09	200.000	3.936									

o-Xylene — Average RF — RSD = 7.4 — Average RF = 0.6449

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7121	02	1.000	0.6644	03	2.000	0.6103	04	5.000	0.6436
05	20.000	0.5584	06	50.000	0.6270	07	100.000	0.6302	08	150.000	0.7070
09	200.000	0.6511									

sec-Butylbenzene — Average RF — RSD = 13.0 — Average RF = 3.329

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.412	02	1.000	3.597	03	2.000	3.293	04	5.000	3.495
05	20.000	2.247	06	50.000	3.266	07	100.000	3.367	08	150.000	3.713
09	200.000	3.568									

tert-Amyl Methyl Ether — Average RF — RSD = 3.9 — Average RF = 1.623

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.637	02	1.000	1.692	03	2.000	1.552	04	5.000	1.599
05	20.000	1.607	06	50.000	1.567	07	100.000	1.589	08	150.000	1.750
09	200.000	1.618									

tert-Butylbenzene — Average RF — RSD = 11.3 — Average RF = 2.261

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.455	02	1.000	2.424	03	2.000	2.261	04	5.000	2.342
05	20.000	1.623	06	50.000	2.208	07	100.000	2.250	08	150.000	2.438
09	200.000	2.345									

trans-1,2-Dichloroethene — Average RF — RSD = 9.5 — Average RF = 0.5316

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6197	02	1.000	0.5931	03	2.000	0.5031	04	5.000	0.4953
05	20.000	0.4614	06	50.000	0.5113	07	100.000	0.5152	08	150.000	0.5617
09	200.000	0.5233									

trans-1,3-Dichloropropene — Average RF — RSD = 10.2 — Average RF = 0.4854

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4504	02	1.000	0.4606	03	2.000	0.4131	04	5.000	0.4415
05	20.000	0.4856	06	50.000	0.5015	07	100.000	0.5132	08	150.000	0.5718
09	200.000	0.5306									

trans-1,4-Dichloro-2-butene — Average RF — RSD = 11.6 — Average RF = 0.1568

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1296	02	1.000	0.1430	03	2.000	0.1431	04	5.000	0.1448
05	20.000	0.1665	06	50.000	0.1588	07	100.000	0.1665	08	150.000	0.1888
09	200.000	0.1699									

Initial Calibration - Detailed Report

Calibration ID:	RC1500028	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

1,1,1,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.8	02	1.000	0.91	-9.4	03	2.000	1.68	-16.0
04	5.000	4.79	-4.1	05	20.000	19.25	-3.7	06	50.000	50.39	0.8
07	100.000	102.63	2.6	08	150.000	170.86	13.9	09	200.000	212.27	6.1

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.2	02	1.000	1.03	3.0	03	2.000	1.80	-10.0
04	5.000	4.94	-1.2	05	20.000	16.22	-18.9	06	50.000	49.85	-0.3
07	100.000	101.56	1.6	08	150.000	167.47	11.6	09	200.000	206.05	3.0

1,1,2,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.5	02	1.000	1.00	-0.5	03	2.000	1.86	-7.0
04	5.000	4.95	-1.0	05	20.000	21.56	7.8	06	50.000	49.21	-1.6
07	100.000	97.39	-2.6	08	150.000	153.81	2.5	09	200.000	201.82	0.9

1,1,2-Trichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.6	02	1.000	1.05	5.2	03	2.000	1.76	-12.1
04	5.000	4.81	-3.7	05	20.000	20.42	2.1	06	50.000	51.03	2.1
07	100.000	100.48	0.5	08	150.000	165.52	10.3	09	200.000	204.30	2.2

1,1,2-Trichlorotrifluoroetbane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.6	02	1.000	1.03	2.9	03	2.000	1.95	-2.4
04	5.000	4.93	-1.3	05	20.000	15.44	-22.8	06	50.000	50.28	0.6
07	100.000	100.58	0.6	08	150.000	167.04	11.4	09	200.000	211.02	5.5

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.0	02	1.000	1.05	4.6	03	2.000	1.74	-13.1
04	5.000	4.84	-3.3	05	20.000	18.02	-9.9	06	50.000	50.53	1.1
07	100.000	99.93	-0.1	08	150.000	162.32	8.2	09	200.000	201.21	0.6

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.62	24.7	02	1.000	1.07	7.5	03	2.000	1.90	-5.1
04	5.000	4.67	-6.6	05	20.000	16.19	-19.0	06	50.000	48.25	-3.5
07	100.000	95.96	-4.0	08	150.000	158.61	5.7	09	200.000	200.50	0.3

1,1-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.4	02	1.000	1.02	1.8	03	2.000	1.90	-5.2
04	5.000	5.16	3.2	05	20.000	16.49	-17.6	06	50.000	48.89	-2.2
07	100.000	100.44	0.4	08	150.000	169.41	12.9	09	200.000	208.22	4.1

Initial Calibration - Detailed Report

Calibration ID:	RC1500028	**Instrument ID:**	R-MS-14
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Analyte

1,2,3-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.6	02	1.000	1.07	7.5	03	2.000	1.98	-0.8
04	5.000	4.79	-4.2	05	20.000	17.80	-11.0	06	50.000	47.23	-5.5
07	100.000	96.98	-3.0	08	150.000	164.44	9.6	09	200.000	209.74	4.9

1,2,3-Trichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.1	02	1.000	1.01	0.9	03	2.000	1.96	-1.8
04	5.000	4.96	-0.8	05	20.000	21.35	6.7	06	50.000	48.69	-2.6
07	100.000	96.70	-3.3	08	150.000	152.28	1.5	09	200.000	196.43	-1.8

1,2,4-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.8	02	1.000	1.04	4.1	03	2.000	1.89	-5.4
04	5.000	5.11	2.1	05	20.000	16.97	-15.1	06	50.000	48.33	-3.3
07	100.000	99.07	-0.9	08	150.000	167.24	11.5	09	200.000	210.45	5.2

1,2,4-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.2	02	1.000	1.02	2.5	03	2.000	1.92	-4.0
04	5.000	5.07	1.3	05	20.000	16.50	-17.5	06	50.000	50.39	0.8
07	100.000	99.83	-0.2	08	150.000	162.44	8.3	09	200.000	207.32	3.7

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-18.8	02	1.000	0.95	-4.7	03	2.000	1.77	-11.6
04	5.000	4.78	-4.4	05	20.000	21.37	6.9	06	50.000	49.75	-0.5
07	100.000	105.34	5.3	08	150.000	174.04	16.0	09	200.000	223.57	11.8

1,2-Dibromoethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.2	02	1.000	0.98	-2.3	03	2.000	1.91	-4.5
04	5.000	4.90	-1.9	05	20.000	20.97	4.9	06	50.000	50.88	1.8
07	100.000	101.30	1.3	08	150.000	164.40	9.6	09	200.000	204.82	2.4

1,2-Dichloro-1,1,2-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.3	02	1.000	1.03	2.7	03	2.000	1.87	-6.5
04	5.000	4.86	-2.9	05	20.000	20.46	2.3	06	50.000	50.08	0.2
07	100.000	94.07	-5.9	08	150.000	156.41	4.3	09	200.000	191.40	-4.3

1,2-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.8	02	1.000	1.02	2.3	03	2.000	1.95	-2.7
04	5.000	5.11	2.3	05	20.000	18.82	-5.9	06	50.000	48.93	-2.1
07	100.000	96.75	-3.3	08	150.000	159.87	6.6	09	200.000	198.11	-0.9

00250

Initial Calibration - Detailed Report

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		Signal ID:	1

Analyte

1,2-Dichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.2	02	1.000	1.04	4.3	03	2.000	1.87	-6.4
04	5.000	5.03	0.5	05	20.000	19.76	-1.2	06	50.000	49.74	-0.5
07	100.000	97.14	-2.9	08	150.000	159.28	6.2	09	200.000	195.58	-2.2

1,2-Dichloroethane-d4

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.38	3.8	05	20.000	18.94	-5.3	06	50.000	51.06	2.1
07	100.000	101.71	1.7	08	200.000	195.27	-2.4				

1,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.2	02	1.000	1.09	9.2	03	2.000	1.74	-13.1
04	5.000	4.89	-2.1	05	20.000	18.55	-7.2	06	50.000	49.60	-0.8
07	100.000	98.46	-1.5	08	150.000	165.09	10.1	09	200.000	200.60	0.3

1,3,5-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-9.0	02	1.000	1.01	0.7	03	2.000	1.94	-3.0
04	5.000	5.12	2.3	05	20.000	19.94	-0.3	06	50.000	49.46	-1.1
07	100.000	98.07	-1.9	08	150.000	164.66	9.8	09	200.000	205.02	2.5

1,3,5-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.8	02	1.000	1.02	2.3	03	2.000	1.92	-4.1
04	5.000	5.22	4.4	05	20.000	16.19	-19.1	06	50.000	49.82	-0.4
07	100.000	100.94	0.9	08	150.000	162.81	8.5	09	200.000	209.04	4.5

1,3-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.5	02	1.000	1.09	9.4	03	2.000	1.90	-5.0
04	5.000	5.04	0.9	05	20.000	18.19	-9.0	06	50.000	49.11	-1.8
07	100.000	98.03	-2.0	08	150.000	158.76	5.8	09	200.000	200.26	0.1

1,3-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.1	02	1.000	1.02	1.7	03	2.000	1.89	-5.7
04	5.000	5.01	0.1	05	20.000	20.60	3.0	06	50.000	49.14	-1.7
07	100.000	98.23	-1.8	08	150.000	158.85	5.9	09	200.000	197.22	-1.4

1,4-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.2	02	1.000	1.07	7.3	03	2.000	1.96	-1.8
04	5.000	4.95	-1.0	05	20.000	18.03	-9.9	06	50.000	47.56	-4.9
07	100.000	94.46	-5.5	08	150.000	157.17	4.8	09	200.000	195.63	-2.2

Initial Calibration - Detailed Report

Calibration ID:	RC1500028	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

1,4-Dioxane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	6.32	-36.8	02	20.000	20.31	1.5	03	40.000	34.34	-14.1
04	100.000	95.65	-4.3	05	400.000	437.85	9.5	06	1000.000	1,029.65	3.0
07	2000.000	2,122.94	6.1	08	3000.000	3,697.53	23.3	09	4000.000	4,477.94	11.9

1-Butanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	25.000	18.81	-24.8	02	50.000	43.19	-13.6	03	100.000	86.62	-13.4
04	250.000	217.66	-12.9	05	1000.000	1,061.18	6.1	06	2500.000	2,475.32	-1.0
07	5000.000	5,468.33	9.4	08	7500.000	9,684.85	29.1	09	10000.000	12,107.48	21.1

1-Chloro-4-(trifluoromethyl)benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.6	02	1.000	1.07	7.0	03	2.000	1.86	-7.2
04	5.000	5.23	4.5	05	20.000	20.30	1.5	06	50.000	48.56	-2.9
07	100.000	96.46	-3.5	08	150.000	161.83	7.9	09	200.000	202.65	1.3

2,2-Dichloro-1,1,1-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	16.6	02	1.000	1.02	1.9	03	2.000	1.72	-14.0
04	5.000	4.81	-3.7	05	20.000	20.45	2.2	06	50.000	49.91	-0.2
07	100.000	95.01	-5.0	08	150.000	158.92	5.9	09	200.000	192.48	-3.8

2,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.2	02	1.000	1.02	1.9	03	2.000	1.93	-3.7
04	5.000	4.88	-2.5	05	20.000	16.79	-16.0	06	50.000	49.70	-0.6
07	100.000	99.74	-0.3	08	150.000	162.51	8.3	09	200.000	199.24	-0.4

2,3,6-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.34	-32.2	02	1.000	1.12	11.5	03	2.000	2.01	0.3
04	5.000	4.87	-2.7	05	20.000	19.13	-4.4	06	50.000	49.63	-0.7
07	100.000	101.07	1.1	08	150.000	171.27	14.2	09	200.000	225.75	12.9

2,4,5-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.3	02	1.000	0.98	-1.8	03	2.000	1.79	-10.7
04	5.000	4.63	-7.4	05	20.000	19.67	-1.7	06	50.000	49.87	-0.3
07	100.000	103.40	3.4	08	150.000	172.96	15.3	09	200.000	228.99	14.5

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.500	1.38	-7.9	02	3.000	3.07	2.2	03	6.000	5.65	-5.8
04	15.000	14.65	-2.3	05	60.000	59.88	-0.2	06	150.000	149.56	-0.3
07	300.000	299.17	-0.3	08	450.000	500.22	11.2	09	600.000	620.59	3.4

Initial Calibration - Detailed Report

Calibration ID:	RC1500028	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

2,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	16.2	02	1.000	1.01	0.7	03	2.000	1.74	-12.9
04	5.000	5.02	0.5	05	20.000	19.75	-1.2	06	50.000	49.03	-1.9
07	100.000	95.22	-4.8	08	150.000	156.84	4.6	09	200.000	197.95	-1.0

2,5-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.7	02	1.000	1.06	6.4	03	2.000	1.99	-0.3
04	5.000	4.84	-3.2	05	20.000	20.13	0.7	06	50.000	48.96	-2.1
07	100.000	95.46	-4.5	08	150.000	156.15	4.1	09	200.000	196.57	-1.7

2-Butanone (MEK)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.64	28.1	02	1.000	1.27	27.0	03	2.000	1.79	-10.5
04	5.000	4.57	-8.6	05	20.000	19.30	-3.5	06	50.000	44.14	-11.7
07	100.000	89.72	-10.3	08	150.000	143.99	-4.0	09	200.000	186.99	-6.5

2-Chloro-1,3-butadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.6	02	1.000	1.00	0.1	03	2.000	1.90	-5.2
04	5.000	4.99	-0.2	05	20.000	17.10	-14.5	06	50.000	50.21	0.4
07	100.000	100.70	0.7	08	150.000	165.94	10.6	09	200.000	202.85	1.4

2-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.8	02	1.000	1.03	3.5	03	2.000	1.86	-7.2
04	5.000	5.00	0.0	05	20.000	20.20	1.0	06	50.000	48.87	-2.3
07	100.000	96.43	-3.6	08	150.000	164.77	9.8	09	200.000	202.82	1.4

2-Chloroethyl Vinyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.3	02	1.000	0.94	-6.4	03	2.000	1.86	-7.1
04	5.000	4.95	-0.9	05	20.000	20.21	1.0	06	50.000	50.47	0.9
07	100.000	102.12	2.1	08	150.000	169.70	13.1	09	200.000	208.98	4.5

2-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.3	02	1.000	1.10	10.2	03	2.000	1.95	-2.7
04	5.000	5.10	1.9	05	20.000	17.47	-12.6	06	50.000	48.58	-2.8
07	100.000	95.67	-4.3	08	150.000	153.58	2.4	09	200.000	195.40	-2.3

2-Hexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.3	02	1.000	1.09	8.7	03	2.000	1.93	-3.7
04	5.000	4.75	-5.0	05	20.000	20.71	3.6	06	50.000	46.34	-7.3
07	100.000	97.63	-2.4	08	150.000	160.36	6.9	09	200.000	204.89	2.4

Initial Calibration - Detailed Report

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Analyte

2-Methyl-1-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	9.48	-5.2	02	20.000	21.66	8.3	03	40.000	32.47	-18.8
04	100.000	85.98	-14.0	05	400.000	414.38	3.6	06	1000.000	943.18	-5.7
07	2000.000	2,076.56	3.8	08	3000.000	3,543.11	18.1	09	4000.000	4,395.80	9.9

2-Methyl-2-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	8.80	-12.0	02	20.000	20.04	0.2	03	40.000	37.57	-6.1
04	100.000	92.37	-7.6	05	400.000	426.79	6.7	06	1000.000	962.05	-3.8
07	2000.000	2,053.87	2.7	08	3000.000	3,367.50	12.2	09	4000.000	4,307.62	7.7

2-Nitropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.11	11.1	02	2.000	1.97	-1.5	03	4.000	3.60	-10.0
04	10.000	8.26	-17.4	05	40.000	38.61	-3.5	06	100.000	95.78	-4.2
07	200.000	204.85	2.4	08	300.000	338.67	12.9	09	400.000	440.50	10.1

2-Propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	9.95	-0.5	02	20.000	23.02	15.1	03	40.000	38.06	-4.9
04	100.000	89.71	-10.3	05	400.000	406.15	1.5	06	1000.000	934.32	-6.6
07	2000.000	1,941.03	-2.9	08	3000.000	3,216.25	7.2	09	4000.000	4,054.13	1.4

3,4- and 2,3-Dichlorotoluene Coelution

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.88	-12.0	02	2.000	2.04	1.8	03	4.000	3.59	-10.3
04	10.000	9.96	-0.4	05	40.000	40.79	2.0	06	100.000	99.60	-0.4
07	200.000	201.85	0.9	08	300.000	339.53	13.2	09	400.000	421.35	5.3

3,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.5	02	1.000	1.04	4.5	03	2.000	1.86	-6.8
04	5.000	4.90	-2.0	05	20.000	20.28	1.4	06	50.000	50.05	0.1
07	100.000	96.80	-3.2	08	150.000	157.87	5.2	09	200.000	198.64	-0.7

3-Chloro-1-propene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.6	02	1.000	0.93	-7.4	03	2.000	1.98	-0.9
04	5.000	4.85	-3.0	05	20.000	18.90	-5.5	06	50.000	51.06	2.1
07	100.000	108.38	8.4	08	150.000	160.45	7.0	09	200.000	171.32	-14.3

3-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.4	02	1.000	0.97	-3.4	03	2.000	2.01	0.3
04	5.000	5.03	0.5	05	20.000	20.35	1.7	06	50.000	48.06	-3.9
07	100.000	94.83	-5.2	08	150.000	159.70	6.5	09	200.000	197.91	-1.0

Initial Calibration - Detailed Report

Calibration ID:	RC1500028	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

3-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.9	02	1.000	1.07	7.1	03	2.000	1.89	-5.7
04	5.000	5.07	1.4	05	20.000	20.83	4.1	06	50.000	49.30	-1.4
07	100.000	95.19	-4.8	08	150.000	154.40	2.9	09	200.000	196.43	-1.8

4-Bromofluorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	9.84	-1.6	05	20.000	18.72	-6.4	06	50.000	51.42	2.8
07	100.000	103.65	3.7	08	200.000	202.96	1.5				

4-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.0	02	1.000	1.08	8.3	03	2.000	1.96	-2.2
04	5.000	5.02	0.4	05	20.000	17.51	-12.4	06	50.000	48.88	-2.2
07	100.000	97.82	-2.2	08	150.000	158.04	5.4	09	200.000	202.10	1.0

4-Isopropyltoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.6	02	1.000	1.06	5.7	03	2.000	1.95	-2.7
04	5.000	5.16	3.1	05	20.000	13.63	-31.9	06	50.000	48.75	-2.5
07	100.000	99.98	0.0	08	150.000	167.03	11.4	09	200.000	214.64	7.3

4-Methyl-2-pentanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.0	02	1.000	1.03	3.2	03	2.000	1.83	-8.6
04	5.000	4.49	-10.2	05	20.000	20.18	0.9	06	50.000	47.96	-4.1
07	100.000	97.78	-2.2	08	150.000	163.27	8.8	09	200.000	204.34	2.2

Acetone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.56	27.8	04	5.000	5.51	10.3	05	20.000	18.98	-5.1
06	50.000	43.64	-12.7	07	100.000	87.80	-12.2	08	150.000	149.22	-0.5
09	200.000	185.05	-7.5								

Acetonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.84	13.7	02	5.000	4.53	-9.3	03	10.000	9.69	-3.1
04	25.000	24.21	-3.2	05	100.000	111.83	11.8	06	250.000	224.63	-10.1
07	500.000	476.33	-4.7	08	750.000	801.78	6.9	09	1000.000	979.94	-2.0

Acrolein

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.14	-14.3	02	5.000	5.14	2.8	03	10.000	9.33	-6.7
04	25.000	23.58	-5.7	05	100.000	104.30	4.3	06	250.000	253.41	1.4
07	500.000	494.69	-1.1	08	750.000	830.36	10.7	09	1000.000	1,086.71	8.7

Initial Calibration - Detailed Report

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		Signal ID:	1

Analyte

Acrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.41	-3.5	02	5.000	4.71	-5.9	03	10.000	9.69	-3.1
04	25.000	24.11	-3.6	05	100.000	105.09	5.1	06	250.000	247.93	-0.8
07	500.000	503.78	0.8	08	750.000	819.41	9.3	09	1000.000	1,017.88	1.8

Benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.6	02	1.000	1.05	4.9	03	2.000	1.91	-4.5
04	5.000	4.83	-3.5	05	20.000	17.57	-12.2	06	50.000	48.45	-3.1
07	100.000	97.05	-2.9	08	150.000	161.32	7.5	09	200.000	198.26	-0.9

Bromobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.5	02	1.000	1.12	12.3	03	2.000	1.90	-5.1
04	5.000	5.07	1.3	05	20.000	19.56	-2.2	06	50.000	49.76	-0.5
07	100.000	97.26	-2.7	08	150.000	154.05	2.7	09	200.000	195.44	-2.3

Bromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.9	02	1.000	1.02	1.8	03	2.000	2.00	0.2
04	5.000	5.10	2.0	05	20.000	20.56	2.8	06	50.000	51.93	3.9
07	100.000	96.34	-3.7	08	150.000	155.02	3.3	09	200.000	189.12	-5.4

Bromodichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.7	02	1.000	0.99	-1.1	03	2.000	1.75	-12.4
04	5.000	4.75	-5.1	05	20.000	19.21	-3.9	06	50.000	50.60	1.2
07	100.000	102.16	2.2	08	150.000	170.24	13.5	09	200.000	212.70	6.3

Bromoform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.39	-22.3	02	1.000	0.91	-9.0	03	2.000	1.65	-17.3
04	5.000	4.40	-11.9	05	20.000	20.62	3.1	06	50.000	51.66	3.3
07	100.000	111.67	11.7	08	150.000	188.35	25.6	09	200.000	233.70	16.9

Bromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.65	29.3	02	1.000	1.25	25.4	03	2.000	2.30	15.2
04	5.000	4.70	-6.0	05	20.000	20.33	1.7	06	50.000	44.84	-10.3
07	100.000	80.75	-19.3	08	150.000	118.86	-20.8	09	200.000	169.75	-15.1

Carbon Disulfide

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.5	02	1.000	0.99	-1.5	03	2.000	1.73	-13.6
04	5.000	4.78	-4.4	05	20.000	17.19	-14.1	06	50.000	51.51	3.0
07	100.000	103.87	3.9	08	150.000	178.90	19.3	09	200.000	219.77	9.9

Initial Calibration - Detailed Report

Calibration ID:	RC1500028	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

Carbon Tetrachloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.38	-24.8	02	1.000	1.03	3.1	03	2.000	1.79	-10.4
04	5.000	5.24	4.8	05	20.000	16.49	-17.5	06	50.000	51.91	3.8
07	100.000	106.87	6.9	08	150.000	182.69	21.8	09	200.000	224.83	12.4

Chlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.3	02	1.000	1.07	6.7	03	2.000	1.90	-5.1
04	5.000	4.89	-2.1	05	20.000	18.48	-7.6	06	50.000	47.82	-4.4
07	100.000	96.27	-3.7	08	150.000	158.06	5.4	09	200.000	197.27	-1.4

Chloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.9	02	1.000	1.02	1.6	03	2.000	1.73	-13.5
04	5.000	5.06	1.2	05	20.000	18.06	-9.7	06	50.000	49.87	-0.3
07	100.000	98.44	-1.6	08	150.000	171.66	14.4	09	200.000	203.57	1.8

Chloroform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.3	02	1.000	1.05	5.5	03	2.000	1.90	-5.1
04	5.000	4.76	-4.9	05	20.000	18.45	-7.7	06	50.000	50.50	1.0
07	100.000	100.30	0.3	08	150.000	162.85	8.6	09	200.000	202.04	1.0

Chloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.3	02	1.000	1.06	5.6	03	2.000	1.81	-9.4
04	5.000	4.56	-8.7	05	20.000	18.04	-9.8	06	50.000	49.29	-1.4
07	100.000	97.80	-2.2	08	150.000	164.91	9.9	09	200.000	203.58	1.8

Cyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.63	26.3	02	1.000	1.00	0.1	03	2.000	1.85	-7.7
04	5.000	4.84	-3.2	05	20.000	20.25	1.2	06	50.000	47.86	-4.3
07	100.000	92.35	-7.6	08	150.000	153.88	2.6	09	200.000	185.43	-7.3

Cyclohexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	8.58	-14.2	02	20.000	22.47	12.3	03	40.000	38.07	-4.8
04	100.000	96.12	-3.9	05	400.000	393.08	-1.7	06	1000.000	935.07	-6.5
07	2000.000	1,992.46	-0.4	08	3000.000	3,412.23	13.7	09	4000.000	4,217.82	5.4

Dibromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.8	02	1.000	0.91	-8.5	03	2.000	1.70	-15.1
04	5.000	4.78	-4.4	05	20.000	20.10	0.5	06	50.000	51.90	3.8
07	100.000	106.42	6.4	08	150.000	177.16	18.1	09	200.000	222.03	11.0

Initial Calibration - Detailed Report

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		Signal ID:	1

Analyte

Dibromofluoromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.33	3.3	05	20.000	18.67	-6.7	06	50.000	50.82	1.6
07	100.000	102.72	2.7	08	200.000	197.96	-1.0				

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.3	02	1.000	1.01	0.5	03	2.000	1.83	-8.7
04	5.000	4.75	-5.0	05	20.000	20.37	1.8	06	50.000	50.75	1.5
07	100.000	101.21	1.2	08	150.000	168.15	12.1	09	200.000	207.74	3.9

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-9.0	02	1.000	0.99	-1.3	03	2.000	1.73	-13.7
04	5.000	4.58	-8.4	05	20.000	18.00	-10.0	06	50.000	53.66	7.3
07	100.000	107.94	7.9	08	150.000	177.51	18.3	09	200.000	217.46	8.7

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	17.5	02	1.000	1.01	0.7	03	2.000	1.73	-13.6
04	5.000	4.76	-4.8	05	20.000	20.33	1.6	06	50.000	50.26	0.5
07	100.000	94.76	-5.2	08	150.000	160.66	7.1	09	200.000	192.28	-3.9

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	22.4	02	1.000	1.10	10.1	03	2.000	1.88	-6.1
04	5.000	4.74	-5.2	05	20.000	18.05	-9.8	06	50.000	48.08	-3.8
07	100.000	94.48	-5.5	08	150.000	154.70	3.1	09	200.000	189.46	-5.3

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.4	02	1.000	1.07	7.3	03	2.000	1.82	-8.8
04	5.000	4.82	-3.7	05	20.000	20.15	0.8	06	50.000	50.88	1.8
07	100.000	99.83	-0.2	08	150.000	163.96	9.3	09	200.000	203.71	1.9

Diisopropyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.6	02	1.000	1.04	4.2	03	2.000	1.95	-2.4
04	5.000	5.02	0.5	05	20.000	19.67	-1.7	06	50.000	47.03	-5.9
07	100.000	97.65	-2.3	08	150.000	159.20	6.1	09	200.000	197.73	-1.1

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.6	02	1.000	0.97	-2.7	03	2.000	1.69	-15.4
04	5.000	4.71	-5.9	05	20.000	20.60	3.0	06	50.000	50.96	1.9
07	100.000	104.36	4.4	08	150.000	172.12	14.7	09	200.000	213.14	6.6

Initial Calibration - Detailed Report

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Analyte

Ethyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.8	02	1.000	1.00	0.1	03	2.000	1.89	-5.4
04	5.000	5.00	0.0	05	20.000	19.75	-1.2	06	50.000	47.86	-4.3
07	100.000	97.24	-2.8	08	150.000	161.78	7.9	09	200.000	198.02	-1.0

Ethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.2	02	1.000	1.10	9.7	03	2.000	1.83	-8.5
04	5.000	4.99	-0.3	05	20.000	16.63	-16.8	06	50.000	47.85	-4.3
07	100.000	96.66	-3.3	08	150.000	162.99	8.7	09	200.000	201.50	0.7

Hexachlorobutadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.11	11.2	03	2.000	2.13	6.6	04	5.000	5.46	9.2
05	20.000	11.19	-44.1	06	50.000	45.68	-8.6	07	100.000	99.64	-0.4
08	150.000	173.44	15.6	09	200.000	220.86	10.4				

Iodomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.63	25.3	02	1.000	1.01	1.4	03	2.000	1.67	-16.3
04	5.000	4.25	-15.0	05	20.000	17.28	-13.6	06	50.000	50.48	1.0
07	100.000	100.16	0.2	08	150.000	172.99	15.3	09	200.000	203.43	1.7

Isopropylbenzene (Cumene)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	7.0	02	1.000	1.02	1.9	03	2.000	1.93	-3.5
04	5.000	5.14	2.9	05	20.000	15.39	-23.0	06	50.000	48.41	-3.2
07	100.000	100.35	0.3	08	150.000	169.40	12.9	09	200.000	209.28	4.6

Methacrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.3	02	1.000	1.09	8.7	03	2.000	1.89	-5.6
04	5.000	4.92	-1.6	05	20.000	20.55	2.8	06	50.000	48.33	-3.3
07	100.000	97.92	-2.1	08	150.000	158.08	5.4	09	200.000	197.87	-1.1

Methyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.60	20.6	02	1.000	1.05	5.5	03	2.000	1.93	-3.6
04	5.000	4.56	-8.8	05	20.000	20.13	0.6	06	50.000	47.21	-5.6
07	100.000	94.14	-5.9	08	150.000	151.23	0.8	09	200.000	192.46	-3.8

Methyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.2	02	1.000	0.87	-12.8	03	2.000	1.89	-5.3
04	5.000	4.98	-0.4	05	20.000	20.93	4.7	06	50.000	50.18	0.4
07	100.000	101.67	1.7	08	150.000	167.00	11.3	09	200.000	209.43	4.7

Initial Calibration - Detailed Report

Calibration ID:	RC1500028	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

Methyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.0	02	1.000	1.01	1.3	03	2.000	1.86	-7.0
04	5.000	4.85	-3.1	05	20.000	20.40	2.0	06	50.000	50.20	0.4
07	100.000	99.74	-0.3	08	150.000	160.33	6.9	09	200.000	199.54	-0.2

Methylcyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.7	02	1.000	1.05	5.0	03	2.000	2.01	0.5
04	5.000	4.75	-4.9	05	20.000	20.75	3.8	06	50.000	48.30	-3.4
07	100.000	92.17	-7.8	08	150.000	154.97	3.3	09	200.000	187.76	-6.1

Naphthalene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.9	02	1.000	0.97	-3.0	03	2.000	1.83	-8.7
04	5.000	4.80	-3.9	05	20.000	20.83	4.2	06	50.000	49.53	-0.9
07	100.000	101.33	1.3	08	150.000	167.61	11.7	09	200.000	214.42	7.2

Propionitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.60	4.0	02	5.000	4.90	-1.9	03	10.000	9.68	-3.2
04	25.000	22.29	-10.8	05	100.000	103.27	3.3	06	250.000	245.15	-1.9
07	500.000	498.91	-0.2	08	750.000	823.17	9.8	09	1000.000	1,010.44	1.0

Styrene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.8	02	1.000	0.95	-5.2	03	2.000	1.79	-10.3
04	5.000	4.97	-0.5	05	20.000	18.75	-6.2	06	50.000	51.16	2.3
07	100.000	102.85	2.8	08	150.000	172.93	15.3	09	200.000	213.21	6.6

Tetrachloroethene (PCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.5	02	1.000	1.11	11.2	03	2.000	2.09	4.4
04	5.000	5.19	3.8	05	20.000	15.32	-23.4	06	50.000	47.22	-5.6
07	100.000	95.49	-4.5	08	150.000	160.25	6.8	09	200.000	201.33	0.7

Tetrahydrofuran (THF)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	22.6	02	1.000	1.11	10.7	03	2.000	2.00	0.0
04	5.000	4.27	-14.6	05	20.000	20.29	1.5	06	50.000	46.07	-7.9
07	100.000	94.12	-5.9	08	150.000	147.89	-1.4	09	200.000	189.86	-5.1

Toluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.5	02	1.000	1.03	2.5	03	2.000	1.92	-3.8
04	5.000	4.93	-1.3	05	20.000	17.21	-14.0	06	50.000	48.95	-2.1
07	100.000	98.59	-1.4	08	150.000	166.74	11.2	09	200.000	204.72	2.4

Initial Calibration - Detailed Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte

Toluene-d8

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.36	3.6	05	20.000	18.92	-5.4	06	50.000	50.84	1.7
07	100.000	102.20	2.2	08	200.000	195.95	-2.0				

Trichloroethene (TCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.4	02	1.000	1.06	6.4	03	2.000	1.87	-6.7
04	5.000	4.90	-2.1	05	20.000	17.07	-14.6	06	50.000	48.55	-2.9
07	100.000	98.23	-1.8	08	150.000	163.87	9.2	09	200.000	200.06	0.0

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.8	02	1.000	1.05	5.1	03	2.000	1.82	-9.0
04	5.000	5.00	-0.1	05	20.000	16.86	-15.7	06	50.000	51.62	3.2
07	100.000	102.82	2.8	08	150.000	167.57	11.7	09	200.000	205.55	2.8

Vinyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.35	-29.7	02	1.000	0.92	-8.3	03	2.000	1.63	-18.4
04	5.000	5.05	1.0	05	20.000	22.05	10.2	06	50.000	53.84	7.7
07	100.000	103.91	3.9	08	150.000	173.51	15.7	09	200.000	235.94	18.0

Vinyl Chloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.9	02	1.000	1.00	0.3	03	2.000	1.81	-9.6
04	5.000	4.67	-6.7	05	20.000	18.20	-9.0	06	50.000	52.10	4.2
07	100.000	101.37	1.4	08	150.000	166.04	10.7	09	200.000	207.88	3.9

cis-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.4	02	1.000	1.04	3.7	03	2.000	1.84	-7.9
04	5.000	4.81	-3.9	05	20.000	18.56	-7.2	06	50.000	50.05	0.1
07	100.000	99.59	-0.4	08	150.000	163.07	8.7	09	200.000	201.06	0.5

cis-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.5	02	1.000	0.99	-1.4	03	2.000	1.84	-7.8
04	5.000	4.65	-7.0	05	20.000	19.38	-3.1	06	50.000	51.43	2.9
07	100.000	105.12	5.1	08	150.000	172.53	15.0	09	200.000	215.79	7.9

m,p-Xylenes

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.13	12.7	02	2.000	2.08	3.8	03	4.000	3.74	-6.4
04	10.000	9.90	-1.0	05	40.000	33.57	-16.1	06	100.000	96.59	-3.4
07	200.000	196.21	-1.9	08	300.000	328.65	9.5	09	400.000	411.08	2.8

Initial Calibration - Detailed Report

Calibration ID:	RC1500028	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

n-Butyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.1	02	1.000	1.00	-0.3	03	2.000	1.82	-8.9
04	5.000	4.88	-2.5	05	20.000	21.65	8.2	06	50.000	49.78	-0.4
07	100.000	100.05	0.0	08	150.000	163.95	9.3	09	200.000	209.18	4.6

n-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.1	02	1.000	1.03	2.7	03	2.000	1.93	-3.7
04	5.000	5.17	3.4	05	20.000	12.89	-35.6	06	50.000	49.00	-2.0
07	100.000	101.46	1.5	08	150.000	172.44	15.0	09	200.000	219.26	9.6

n-Heptane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.1	02	1.000	1.12	12.4	03	2.000	2.14	7.2
04	5.000	5.92	18.5	05	20.000	12.51	-37.4	06	50.000	51.28	2.6
07	100.000	100.74	0.7	08	150.000	161.93	8.0	09	200.000	191.66	-4.2

n-Propylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.6	02	1.000	1.03	2.8	03	2.000	2.00	-0.1
04	5.000	5.12	2.3	05	20.000	15.44	-22.8	06	50.000	49.01	-2.0
07	100.000	99.83	-0.2	08	150.000	159.04	6.0	09	200.000	204.54	2.3

o-Xylene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.4	02	1.000	1.03	3.0	03	2.000	1.89	-5.4
04	5.000	4.99	-0.2	05	20.000	17.32	-13.4	06	50.000	48.61	-2.8
07	100.000	97.73	-2.3	08	150.000	164.44	9.6	09	200.000	201.92	1.0

sec-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.5	02	1.000	1.08	8.1	03	2.000	1.98	-1.1
04	5.000	5.25	5.0	05	20.000	13.50	-32.5	06	50.000	49.06	-1.9
07	100.000	101.14	1.1	08	150.000	167.33	11.6	09	200.000	214.37	7.2

tert-Amyl Methyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.9	02	1.000	1.04	4.2	03	2.000	1.91	-4.4
04	5.000	4.93	-1.5	05	20.000	19.79	-1.0	06	50.000	48.26	-3.5
07	100.000	97.86	-2.1	08	150.000	161.73	7.8	09	200.000	199.34	-0.3

tert-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.6	02	1.000	1.07	7.2	03	2.000	2.00	0.0
04	5.000	5.18	3.6	05	20.000	14.36	-28.2	06	50.000	48.83	-2.3
07	100.000	99.51	-0.5	08	150.000	161.81	7.9	09	200.000	207.47	3.7

00262

Initial Calibration - Detailed Report

Calibration ID:	RC1500028	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

trans-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	16.6	02	1.000	1.12	11.6	03	2.000	1.89	-5.4
04	5.000	4.66	-6.8	05	20.000	17.36	-13.2	06	50.000	48.10	-3.8
07	100.000	96.92	-3.1	08	150.000	158.50	5.7	09	200.000	196.90	-1.6

trans-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.2	02	1.000	0.95	-5.1	03	2.000	1.70	-14.9
04	5.000	4.55	-9.0	05	20.000	20.01	0.0	06	50.000	51.66	3.3
07	100.000	105.73	5.7	08	150.000	176.73	17.8	09	200.000	218.65	9.3

trans-1,4-Dichloro-2-butene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.3	02	1.000	0.91	-8.8	03	2.000	1.83	-8.7
04	5.000	4.62	-7.6	05	20.000	21.24	6.2	06	50.000	50.65	1.3
07	100.000	106.17	6.2	08	150.000	180.65	20.4	09	200.000	216.77	8.4

00263

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:42:25 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

BW 032415
FW 3/24/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.496	168	169608	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.892	114	273551	50.00	ug/L		0.00
71) d5-Chlorobenzene	10.617	117	237602	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	113356	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.337	113	17766	10.26	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 20.52%#				
48) surr1,1,2-dichloroetha...	4.910	65	22359	12.16	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 24.32%#				
65) SURR3,Toluene-d8	8.696	98	67469	10.52	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.04%#				
70) SURR2,BFB	11.994	95	25512	11.22	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 22.44%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.935	85	854	0.45	ug/L		95
4) Chloromethane	1.033	50	1128	0.53	ug/L		99
5) Vinyl Chloride	1.100	62	1077	0.43	ug/L		69
6) Bromomethane	1.289	94	747	0.40	ug/L		93
7) Chloroethane	1.350	64	713	0.46	ug/L		81
8) Freon 21	1.478	67	2111	0.56	ug/L		93
9) Trichlorofluoromethane	1.515	101	1339	0.47	ug/L		86
10) Diethyl Ether	1.710	59	746	0.42	ug/L	#	85
11) Freon 123a	1.710	67	1214	0.51	ug/L		93
12) Freon 123	1.758	83	1546	0.54	ug/L		94
13) Acrolein	1.789	56	919	1.82	ug/L	#	67
14) 1,1-Diclethene	1.856	96	1089	0.56	ug/L		88
15) Freon 113	1.862	101	820	0.49	ug/L	#	73
16) Acetone	1.905	43	903	0.95	ug/L		82
17) 2-Propanol	2.039	45	1934m	12.41	ug/L		
18) Iodomethane	1.966	142	1148	0.64	ug/L		82
19) Carbon Disulfide	2.008	76	2366	0.50	ug/L		94
20) Acetonitrile	2.112	40	512m	2.73	ug/L		
21) Allyl Chloride	2.136	76	528	0.51	ug/L	#	42
22) Methyl Acetate	2.167	43	1065	0.60	ug/L		91
23) Methylene Chloride	2.234	84	1213m	0.63	ug/L		
24) TBA	2.380	59	2742	17.42	ug/L		79
25) Acrylonitrile	2.447	53	2223	2.59	ug/L		99
26) Methyl-t-Butyl Ether	2.496	73	2923	0.65	ug/L		96
27) trans-1,2-Dichloroethene	2.478	96	1051	0.60	ug/L		88
28) 1,1-Diclethane	2.892	63	1712	0.59	ug/L		88
29) Vinyl Acetate	2.984	86	157m	0.43	ug/L		
30) DIPE	3.027	45	2697	0.61	ug/L		90
31) 2-Chloro-1,3-Butadiene	2.990	53	1578	0.62	ug/L	#	67
32) ETBE	3.472	59	3025	0.79	ug/L		96
33) 2,2-Dichloropropane	3.593	77	1432m	0.92	ug/L		
34) cis-1,2-Dichloroethene	3.593	96	1068	0.53	ug/L	#	82
35) 2-Butanone	3.661	43	770	0.82	ug/L		90
36) Propionitrile	3.721	54	981	3.05	ug/L		84

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:42:25 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) Bromochloromethane	3.917	130	574	0.45 ug/L		91
38) Methacrylonitrile	3.935	67	503	0.53 ug/L	#	75
39) Tetrahydrofuran	4.026	42	446	0.81 ug/L	#	41
40) Chloroform	4.087	83	1648	0.54 ug/L		97
41) 1,1,1-Trichloroethane	4.343	97	1523	0.68 ug/L		87
42) TAME	5.368	73	2777	0.79 ug/L		84
44) Cyclohexane	4.429	41	953m	0.69 ug/L		
46) Carbontetrachloride	4.618	121	226m	0.44 ug/L		
47) 1,1-Dichloropropene	4.630	75	1129	0.50 ug/L		90
49) Benzene	5.008	78	4080m	0.55 ug/L		
50) 1,2-Dichloroethane	5.063	62	1398	0.56 ug/L		90
51) Iso-Butyl Alcohol	5.118	43	1098	15.34 ug/L		85
52) n-Heptane	5.727	43	1184	0.79 ug/L	#	66
53) 1-Butanol	6.575	56	1444m	28.35 ug/L		
54) Trichloroethene	6.367	130	1003	0.50 ug/L	#	70
55) Methylcyclohexane	6.745	55	1181m	0.59 ug/L		
56) 1,2-Diclpropane	6.831	63	934	0.52 ug/L		67
57) Dibromomethane	7.075	93	575m	0.45 ug/L		
58) 1,4-Dioxane	7.263	88	220m	6.84 ug/L		
59) Methyl Methacrylate	7.324	69	778	0.56 ug/L		93
60) Bromodichloromethane	7.483	83	1185	0.54 ug/L		82
61) 2-Nitropropane	7.928	41	676m	1.69 ug/L		
62) 2-Chloroethylvinyl Ether	8.154	63	645	0.59 ug/L		83
63) cis-1,3-Dichloropropene	8.300	75	1250	0.53 ug/L		82
64) 4-Methyl-2-pentanone	8.623	43	1221m	0.71 ug/L		
66) Toluene	8.788	91	4052	0.51 ug/L		99
67) trans-1,3-Dichloropropene	9.190	75	1232	0.64 ug/L		92
68) Ethyl Methacrylate	9.422	69	1317m	0.57 ug/L		
69) 1,1,2-Trichloroethane	9.422	97	849	0.44 ug/L	#	82
72) Tetrachloroethene	9.562	164	701	0.49 ug/L	#	82
73) 2-Hexanone	9.836	43	781	0.64 ug/L		83
74) 1,3-Dichloropropane	9.623	76	1516	0.50 ug/L	#	80
75) Dibromochloromethane	9.903	129	763m	0.45 ug/L		
76) N-Butyl Acetate	10.062	43	1453	0.62 ug/L		84
77) 1,2-Dibromoethane	10.001	107	838	0.44 ug/L		83
78) 3-Chlorobenzotrifluoride	10.732	180	1169	1.39 ug/L	#	100
79) Chlorobenzene	10.653	112	2709	0.52 ug/L		88
80) 4-Chlorobenzotrifluoride	10.812	180	899	1.17 ug/L	#	100
81) 1,1,1,2-Tetrachloroethane	10.775	131	876	0.57 ug/L	#	67
82) Ethylbenzene	10.824	106	1473	0.55 ug/L		96
83) (m+p)Xylene	10.976	106	3482	1.12 ug/L	#	87
84) o-Xylene	11.421	106	1692	0.55 ug/L	#	76
85) Styrene	11.446	104	2469	0.47 ug/L		91
86) Bromoform	11.610	173	457m	0.36 ug/L		
87) 2-Chlorobenzotrifluoride	11.757	180	1068	1.52 ug/L	#	100
88) Isopropylbenzene	11.854	105	4130	0.55 ug/L		90
89) Cyclohexanone	11.909	55	1370	4.23 ug/L		79
90) trans-1,4-Dichloro-2-B...	12.263	53	308	0.52 ug/L	#	52
92) 1,1,2,2-Tetrachloroethane	12.202	83	1325	0.51 ug/L		92
93) Bromobenzene	12.134	156	901	0.46 ug/L		89
95) 1,2,3-Trichloropropane	12.220	110	402	0.53 ug/L	#	89

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:42:25 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

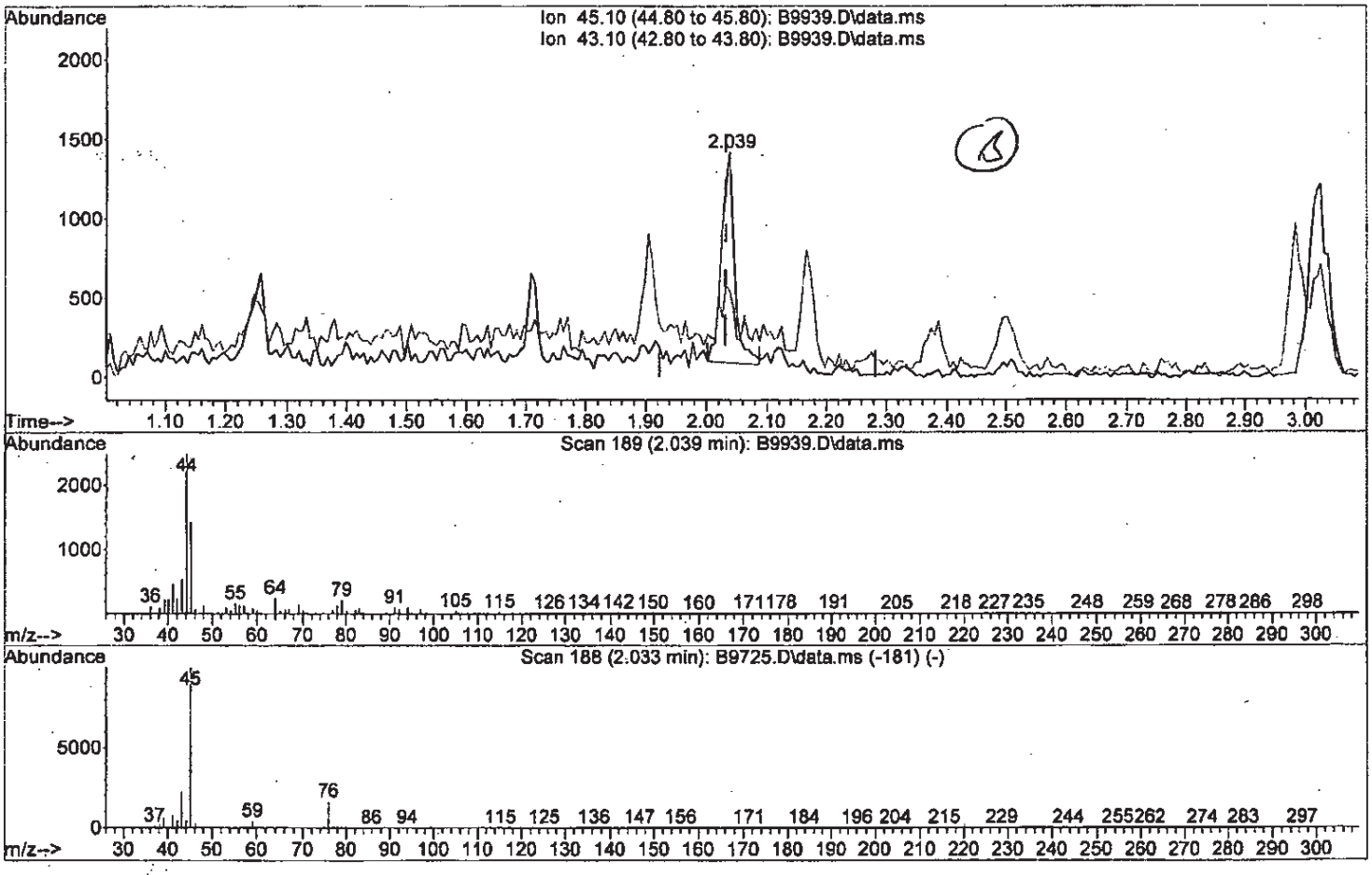
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
96)	n-Propylbenzene	12.311	91	4869m	0.58	ug/L		
97)	2-Chlorotoluene	12.366	91	2967	0.61	ug/L		97
98)	3-Chlorotoluene	12.439	91	2668m	4.17	ug/L		
99)	4-Chlorotoluene	12.488	91	3248m	0.58	ug/L		
100)	1,3,5-Trimethylbenzene	12.512	105	3107	0.56	ug/L		96
101)	tert-Butylbenzene	12.854	119	2783	0.58	ug/L		97
102)	1,2,4-Trimethylbenzene	12.903	105	3256	0.58	ug/L		95
103)	3,4-Dichlorobenzotrifl...	13.006	214	774	1.21	ug/L	#	100
104)	sec-Butylbenzene	13.086	105	3868	0.54	ug/L		91
105)	p-Isopropyltoluene	13.256	119	3406	0.57	ug/L		87
106)	1,3-Dclbenz	13.159	146	1795	0.50	ug/L		91
107)	1,4-Dclbenz	13.256	146	2114	0.56	ug/L		89
108)	2,4-Dichlorobenzotrifl...	13.366	214	820	1.28	ug/L	#	100
109)	2,5-Dichlorobenzotrifl...	13.415	214	806	1.26	ug/L	#	100
111)	n-Butylbenzene	13.677	91	3194	0.58	ug/L		93
112)	1,2-Dclbenz	13.634	146	1841	0.51	ug/L		92
113)	1,2-Dibromo-3-chloropr...	14.433	157	187m	0.48	ug/L		
114)	Trielution Dichlorotol...	14.604	125	4106	6.42	ug/L	#	25
115)	1,3,5-Trichlorobenzene	14.665	180	1039	1.62	ug/L	#	100
116)	Coelution Dichlorotoluene	15.018	125	2772	4.33	ug/L	#	100
117)	1,2,4-Tcbenzene	15.280	180	1012	0.53	ug/L		98
118)	Hexachlorobt	15.475	225	492	0.65	ug/L	#	54
119)	Naphthalen	15.512	128	2520	0.57	ug/L		99
120)	1,2,3-Tclbenzene	15.762	180	848	0.55	ug/L		85
121)	2,4,5-Trichlorotoluene	16.524	159	346	0.54	ug/L	#	100
122)	2,3,6-Trichlorotoluene	16.634	159	237	0.37	ug/L	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(17) 2-Propanol

2.039min (+0.006) 12.64 ug/L

response 1970

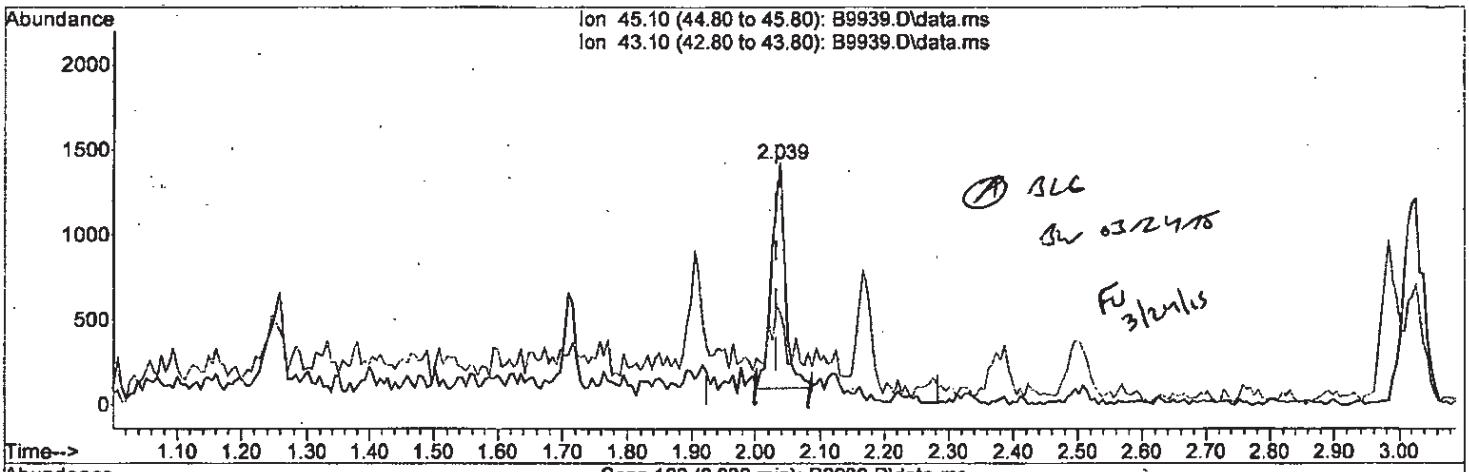
Ion	Exp%	Act%
45.10	100	100
43.10	22.60	38.01
0.00	0.00	0.00
0.00	0.00	0.00

00267

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(17) 2-Propanol

2.039min (+0.006) 12.41 ug/L m

response 1934

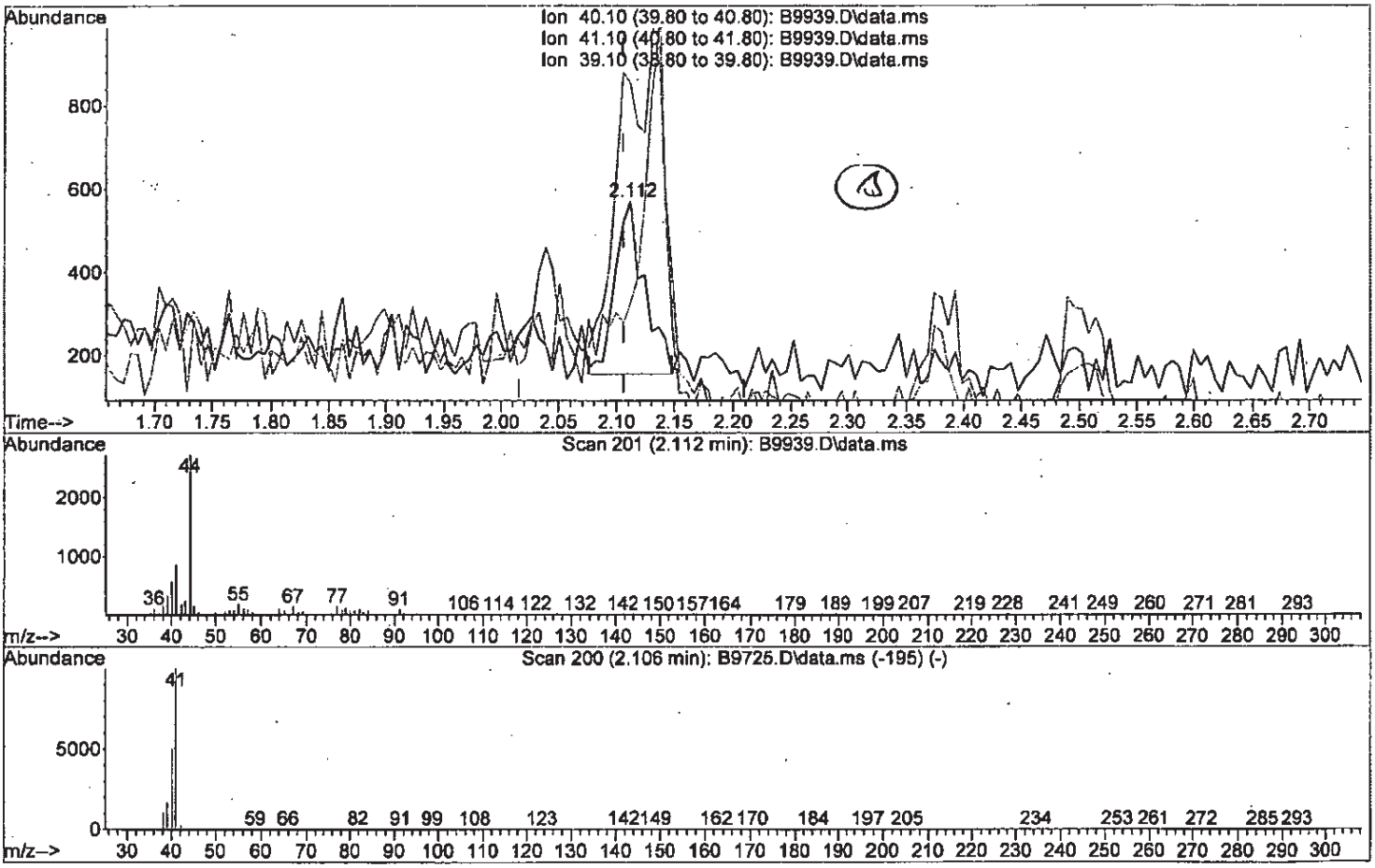
Ion	Exp%	Act%
45.10	100	100
43.10	22.60	38.01
0.00	0.00	0.00
0.00	0.00	0.00

00268

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(20) Acetonitrile

2.112min (+0.006) 3.89 ug/L

response 730

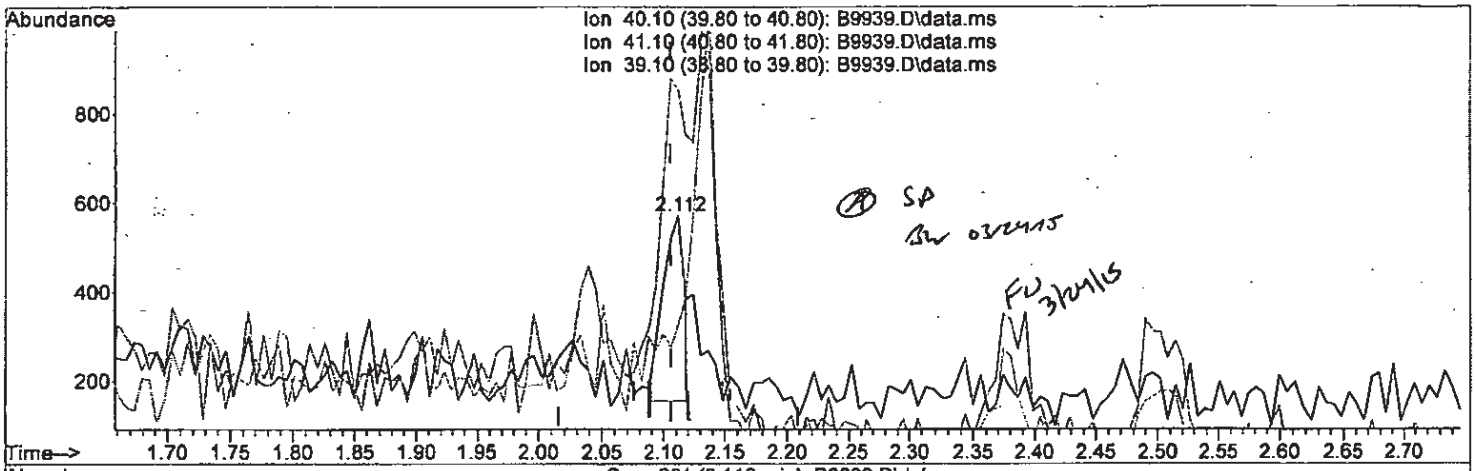
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	149.56#
39.10	34.40	57.27#
0.00	0.00	0.00

00269

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(20) Acetonitrile

2.112min (+0.006) 2.73 ug/L m

response 512

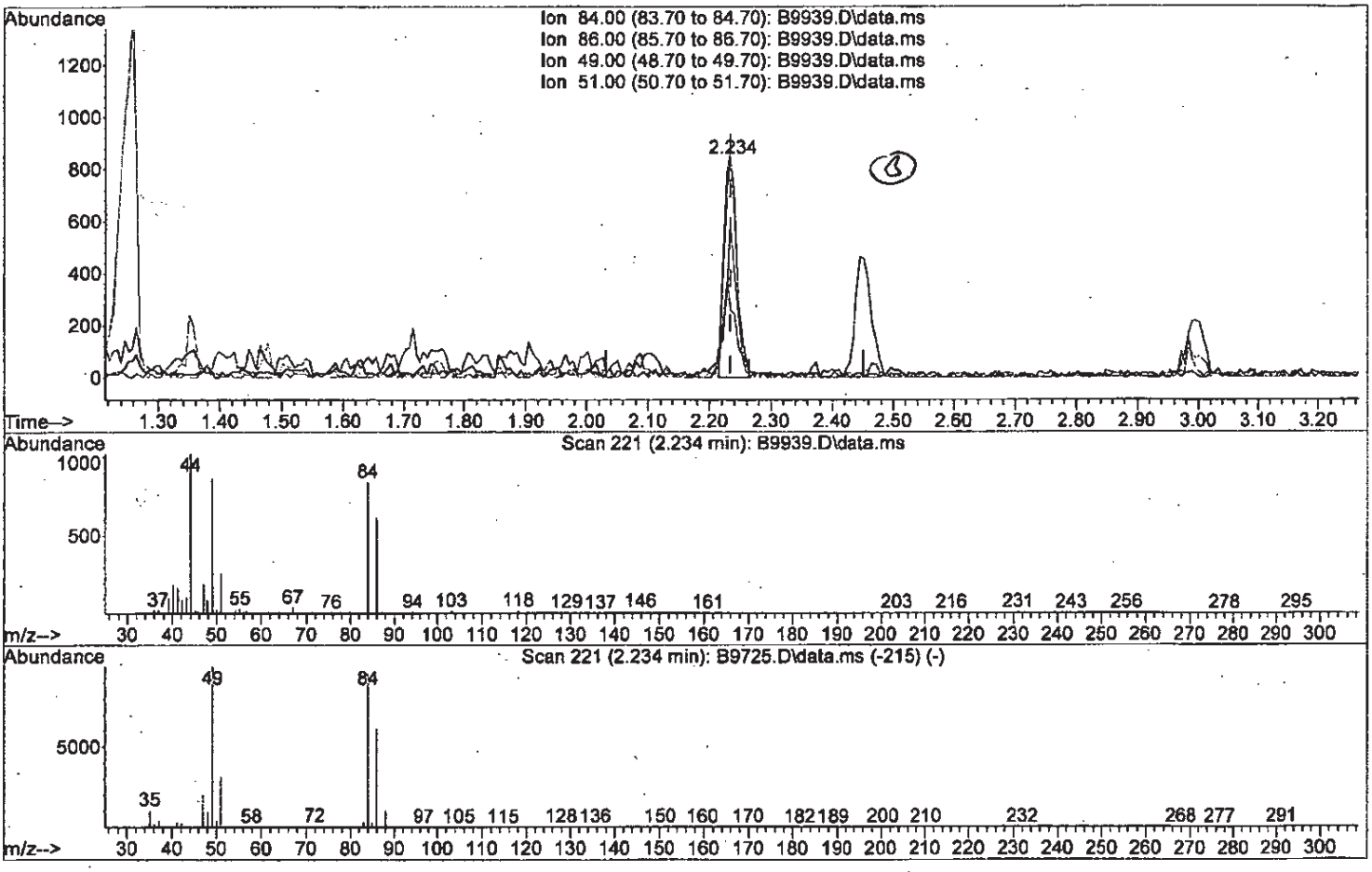
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	149.56#
39.10	34.40	57.27#
0.00	0.00	0.00

00270

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(23) Methylene Chloride (P)

2.234min (+0.000) 0.60 ug/L

response 1170

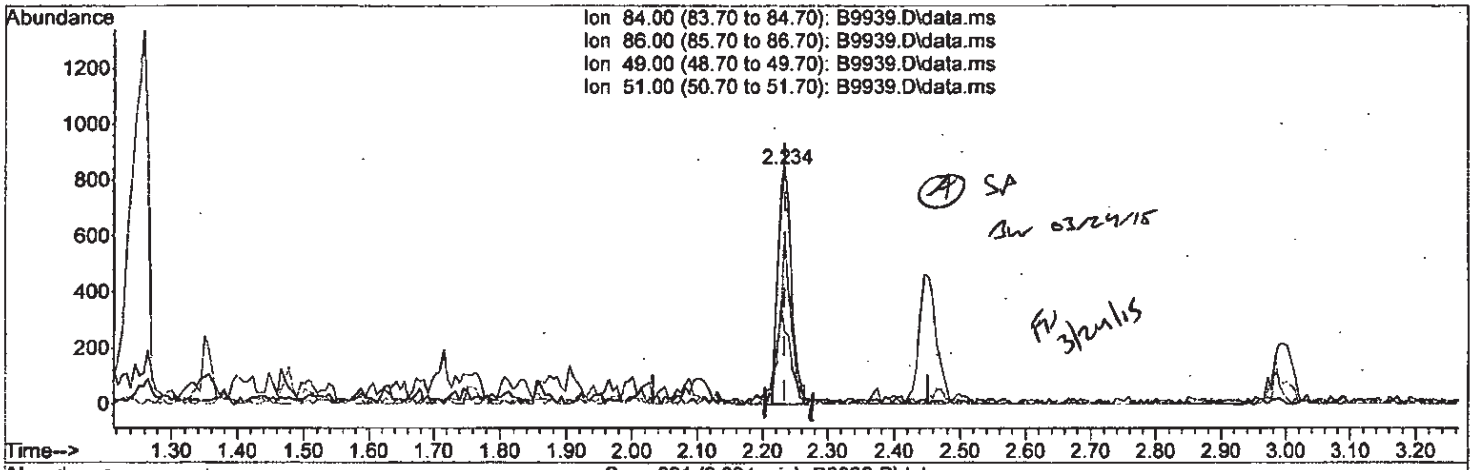
Ion	Exp%	Act%
84.00	100	100
86.00	64.20	73.13
49.00	103.90	102.62
51.00	32.90	31.03

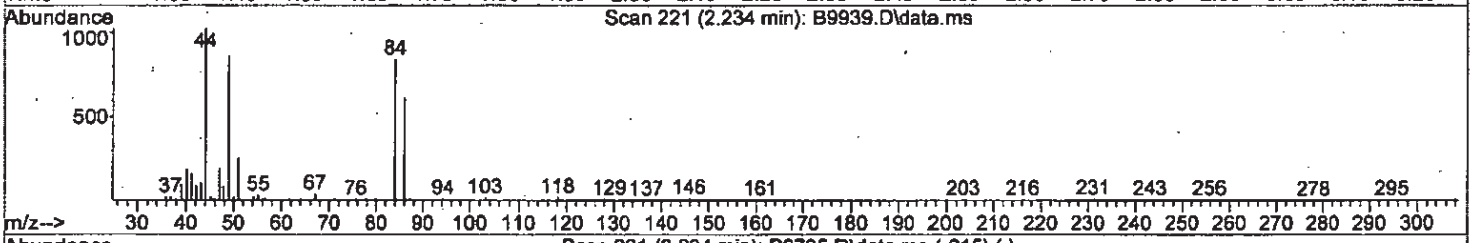
00271

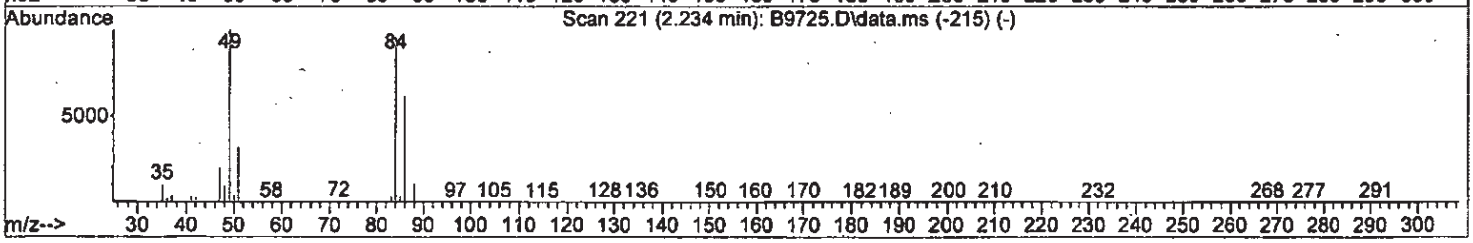
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(23) Methylene Chloride (P)

2.234min (+0.000) 0.63 ug/L m

response 1213

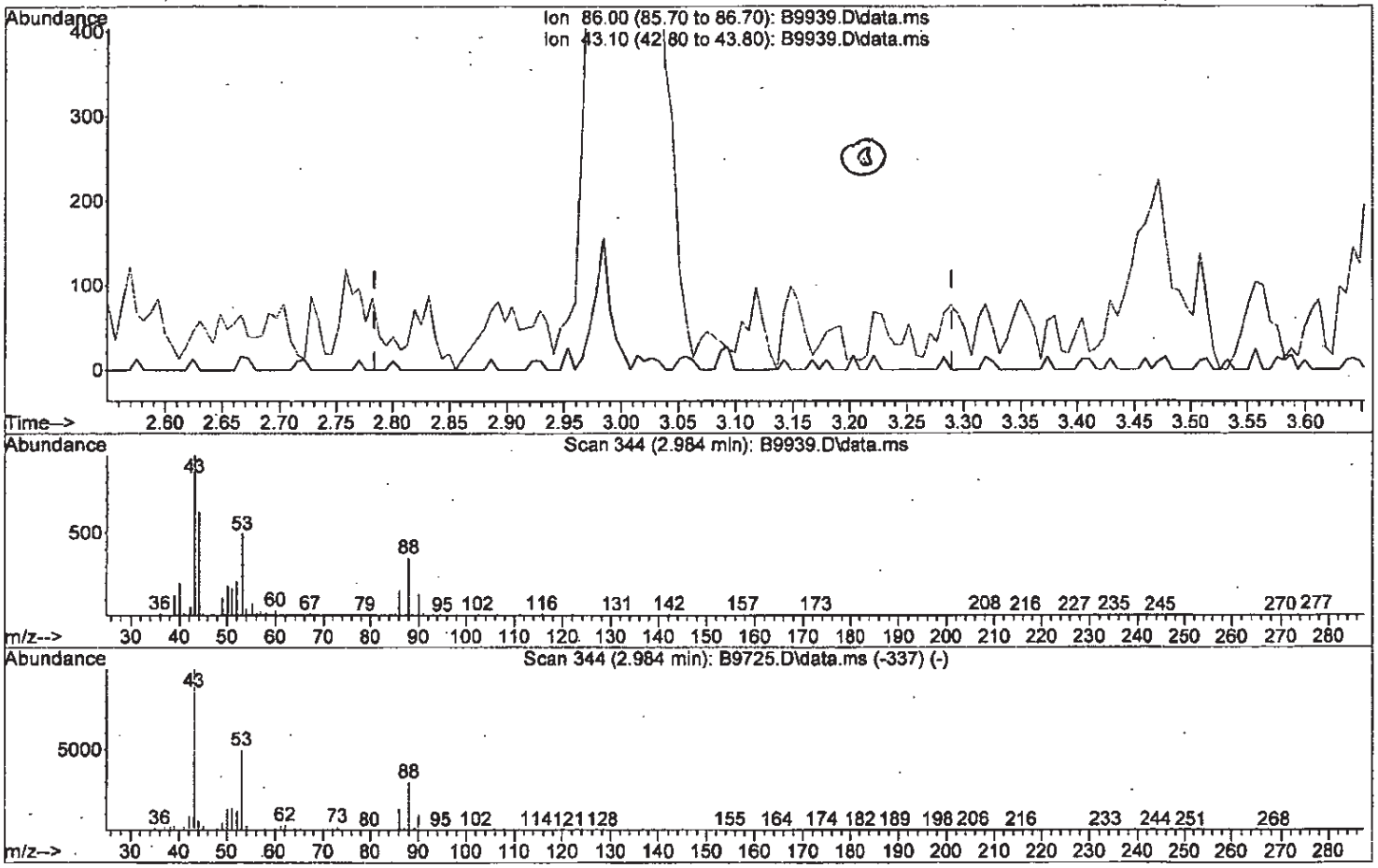
Ion	Exp%	Act%
84.00	100	100
86.00	64.20	73.13
49.00	103.90	102.62
51.00	32.90	31.03

00272

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(29) Vinyl Acetate

2.984min (-2.984) 0.00 ug/L

response 0

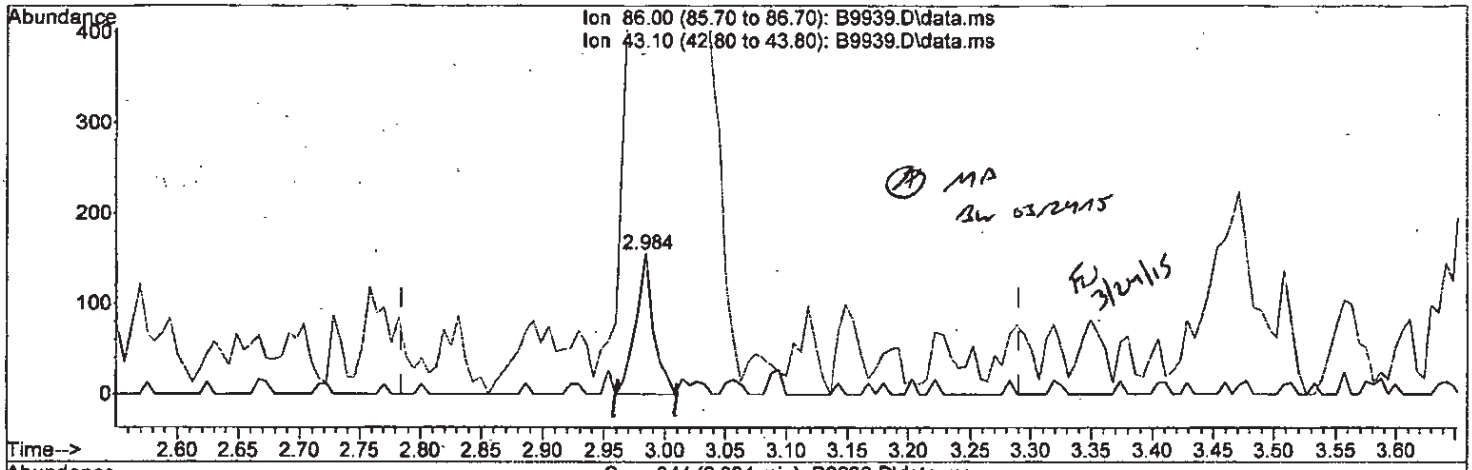
Ion	Exp%	Act%
86.00	100	0.0000
43.10	767.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

00273

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(29) Vinyl Acetate

2.984min (+0.000) 0.43 ug/L m

response 157

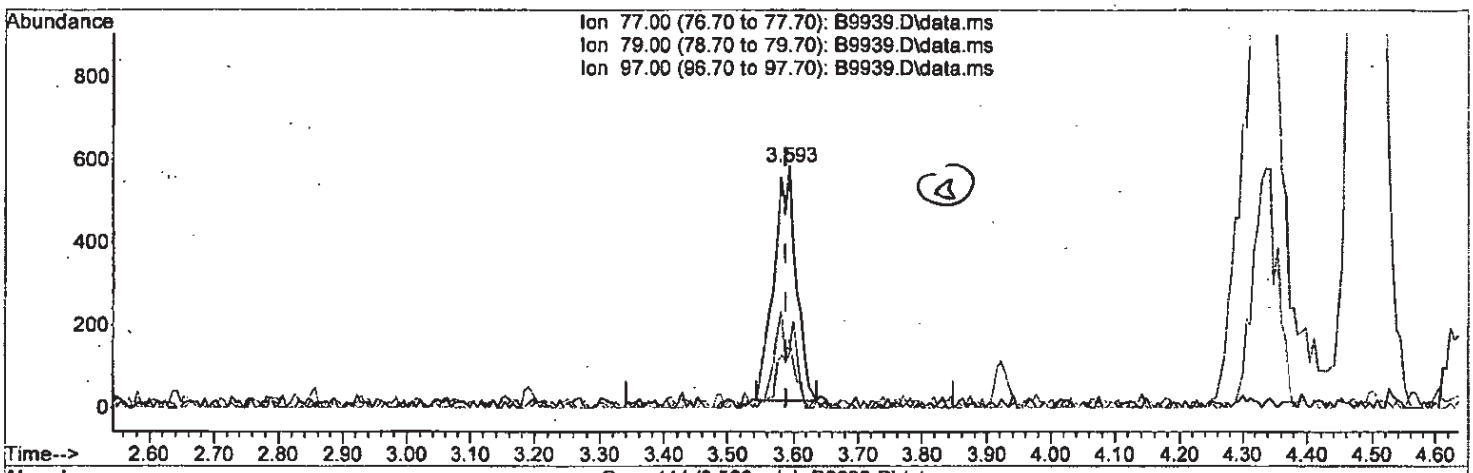
Ion	Exp%	Act%
86.00	100	100
43.10	767.80	620.00#
0.00	0.00	0.00
0.00	0.00	0.00

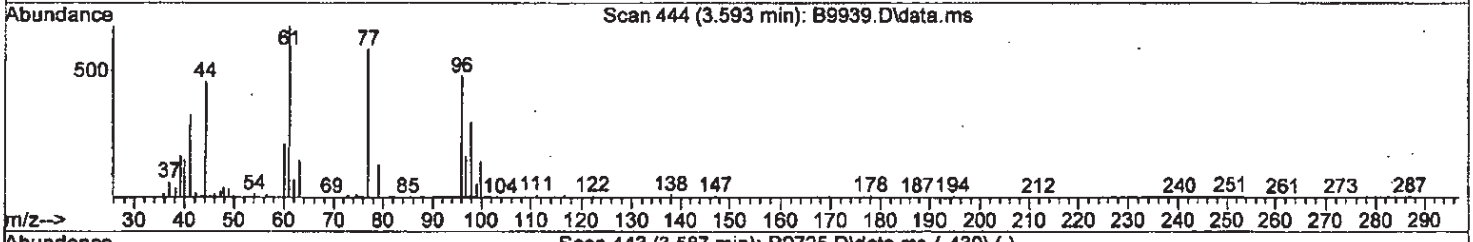
00274

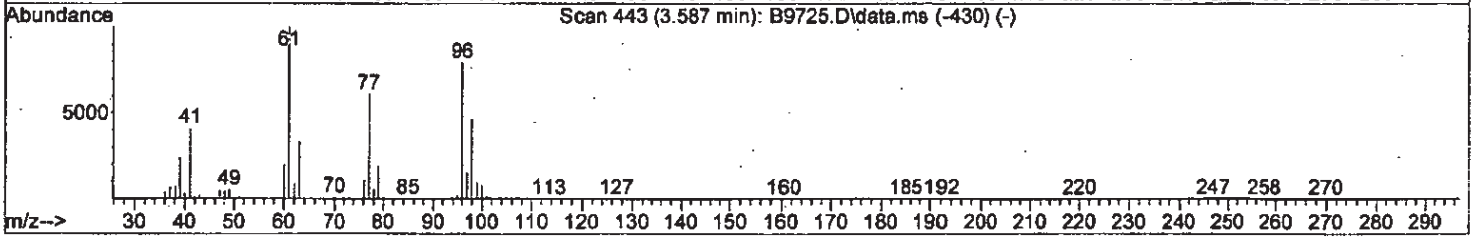
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(33) 2,2-Dichloropropane

3.593min (+0.006) 0.85 ug/L

response 1326

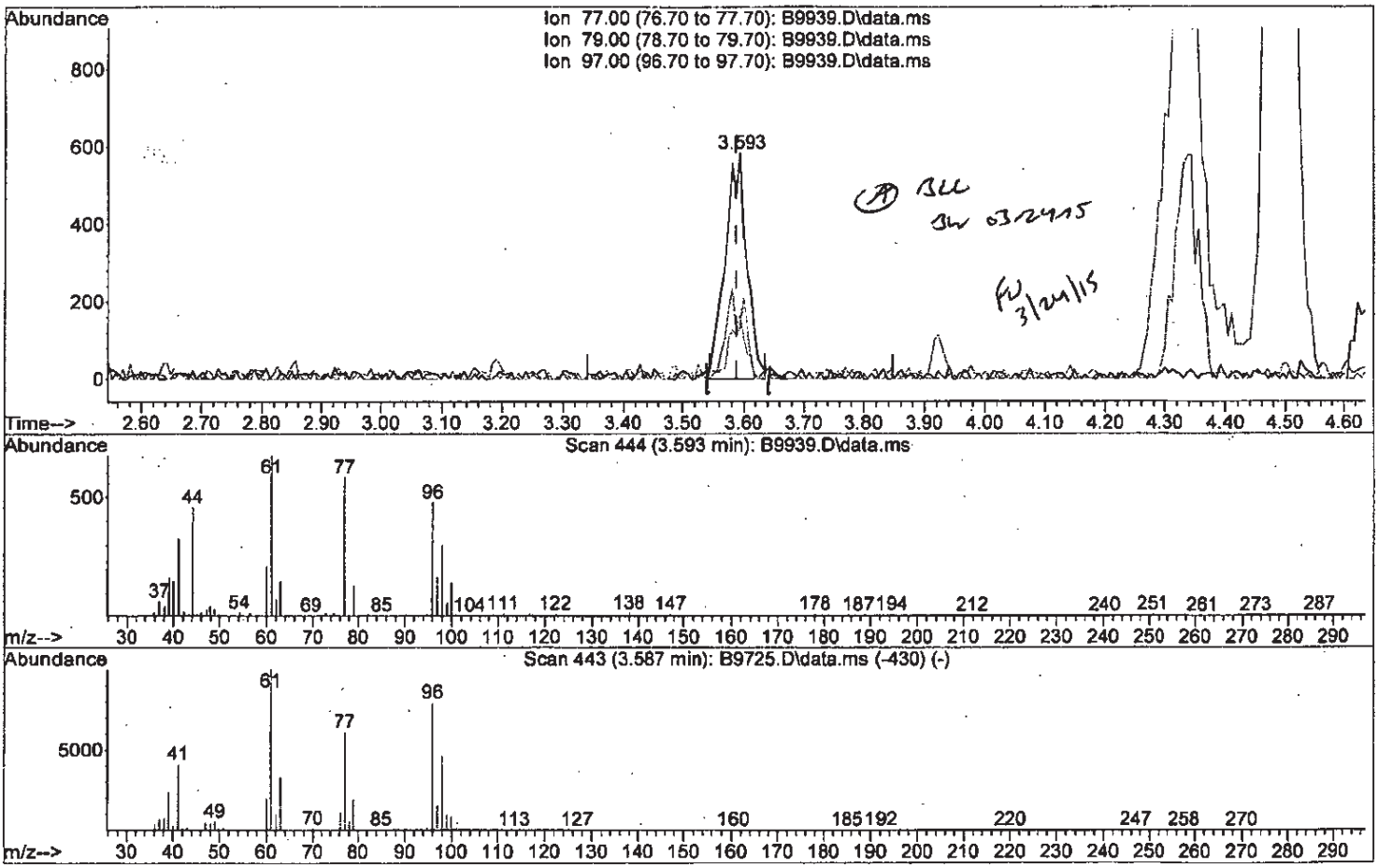
Ion	Exp%	Act%
77.00	100	100
79.00	31.60	22.81
97.00	25.00	28.64
0.00	0.00	0.00

00275

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(33) 2,2-Dichloropropane

3.593min (+0.006) 0.92 ug/L m

response 1432

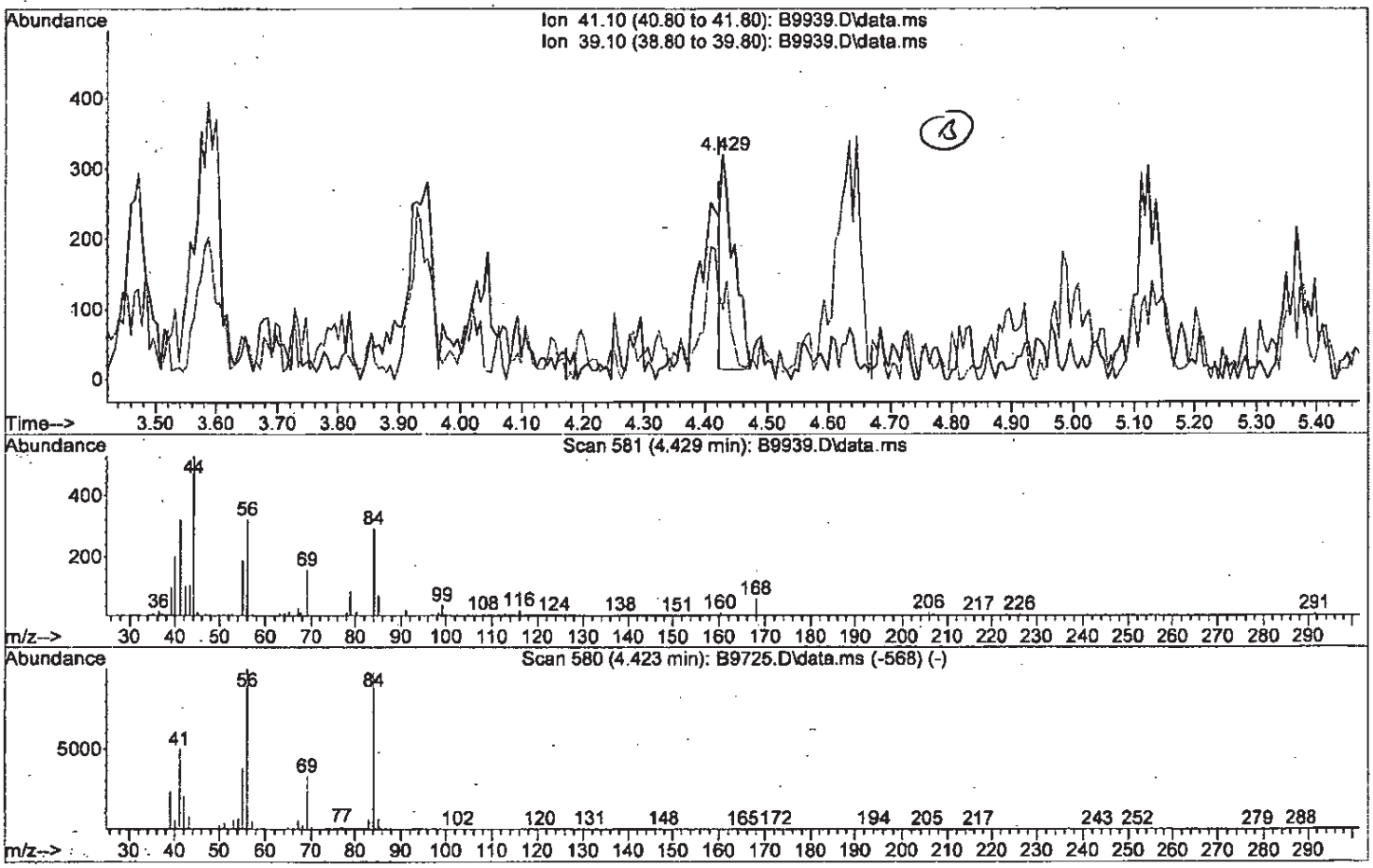
Ion	Exp%	Act%
77.00	100	100
79.00	31.60	22.81
97.00	25.00	28.64
0.00	0.00	0.00

59276

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(44) Cyclohexane (P)

4.429min (+0.006) 0.30 ug/L

response 416

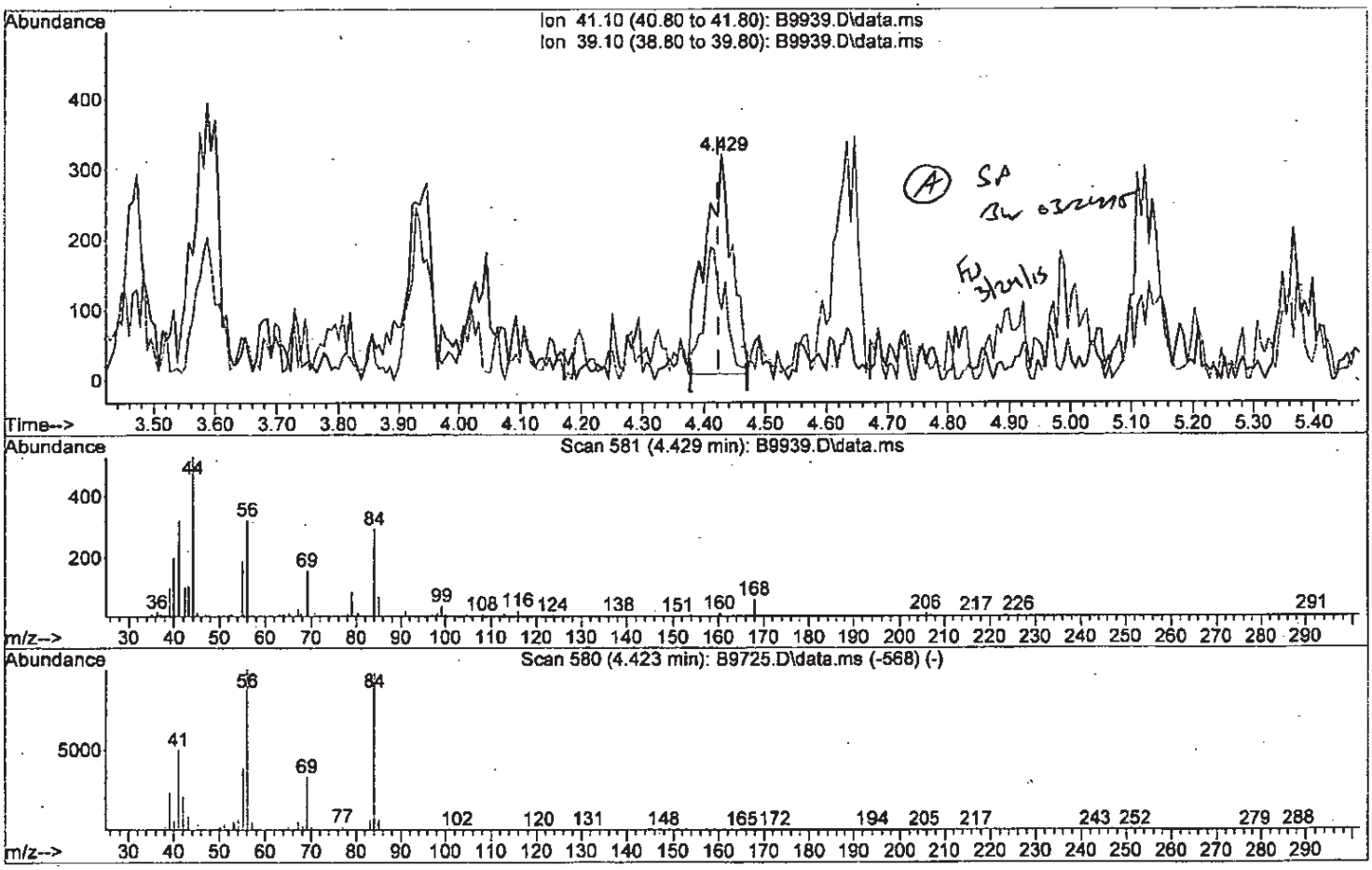
Ion	Exp%	Act%
41.10	100	100
39.10	47.10	31.25
0.00	0.00	0.00
0.00	0.00	0.00

00277

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(44) Cyclohexane (P)

4.429min (+0.006) 0.69 ug/L m

response 953

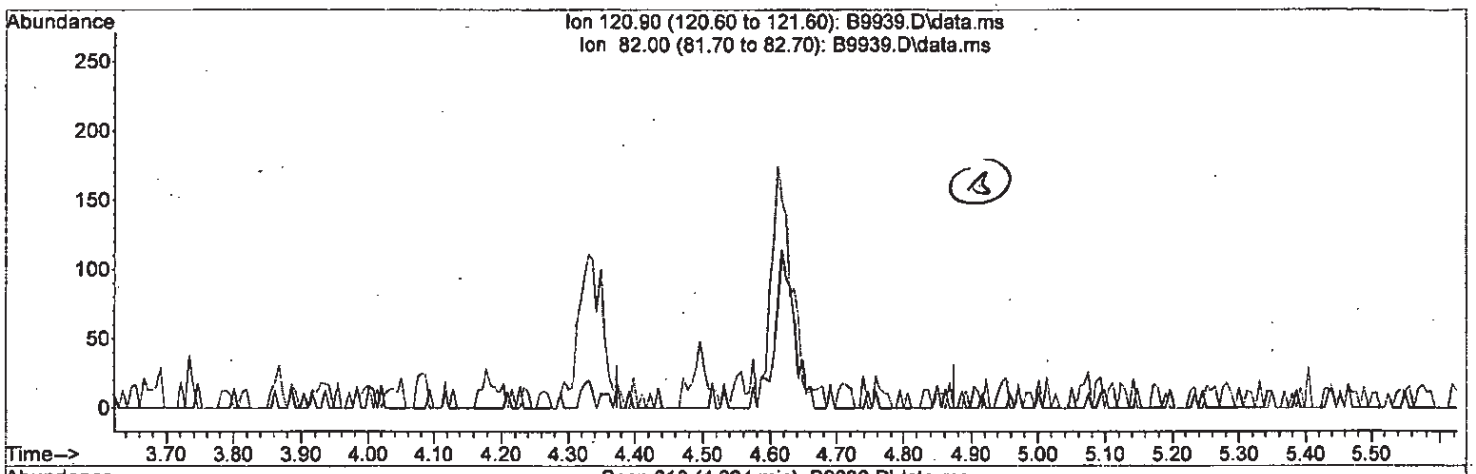
Ion	Exp%	Act%
41.10	100	100
39.10	47.10	31.25
0.00	0.00	0.00
0.00	0.00	0.00

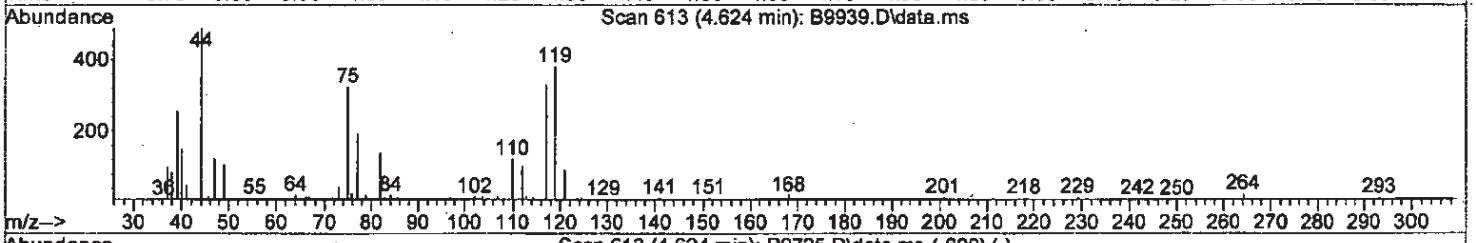
00278

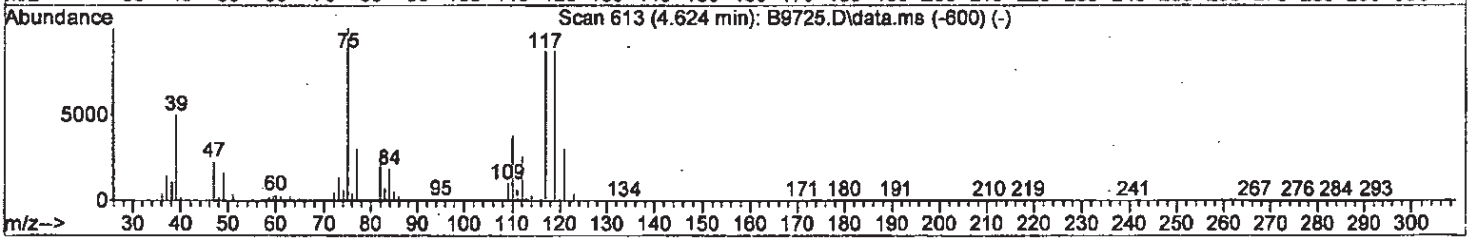
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(46) Carbontetrachloride (P)

4.624min (-4.624) 0.00 ug/L

response 0

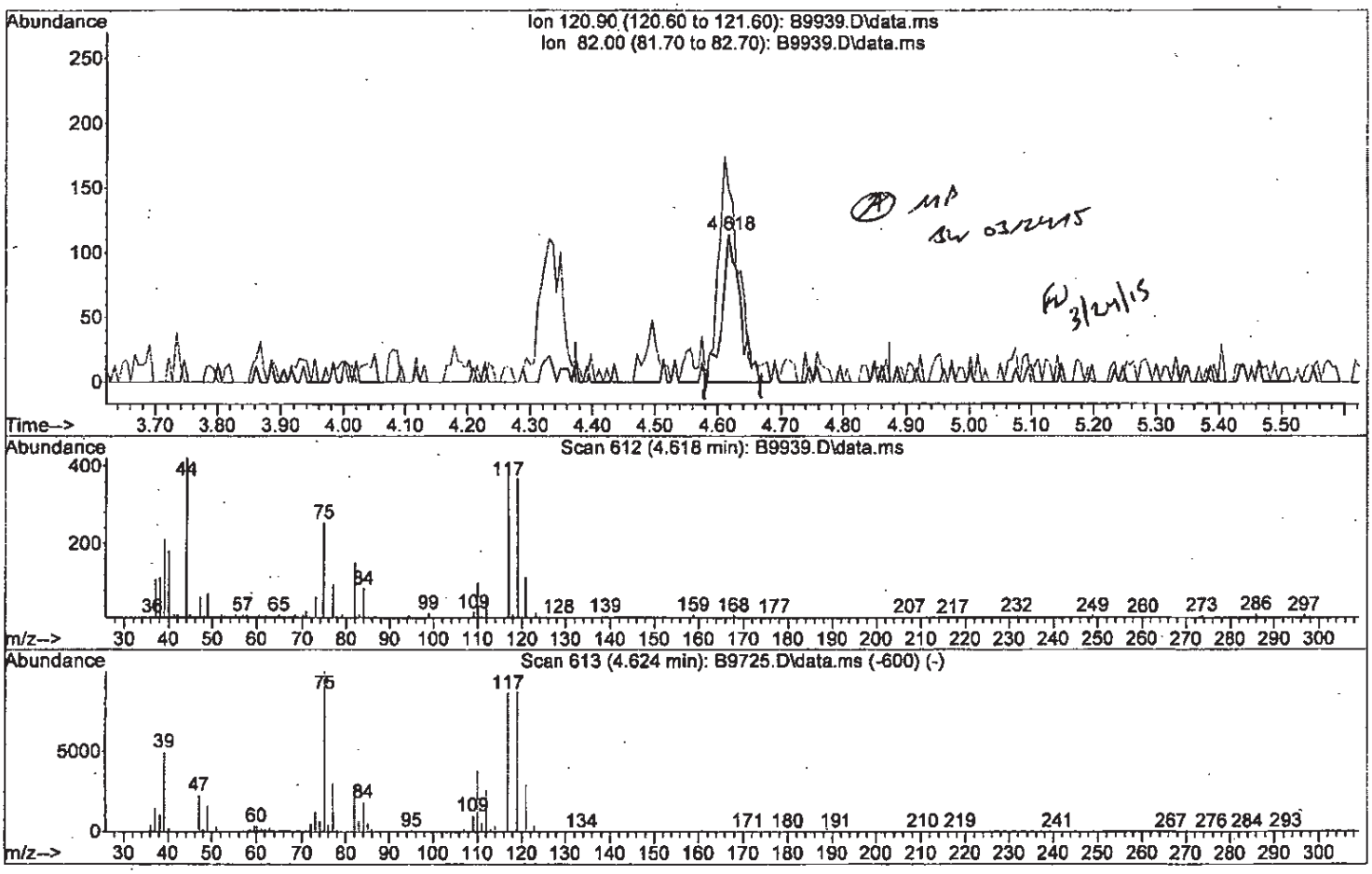
Ion	Exp%	Act%
120.90	100	0.0000
82.00	86.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

00279

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(46) Carbontetrachloride (P)

4.618min (-0.006) 0.44 ug/L m

response 226

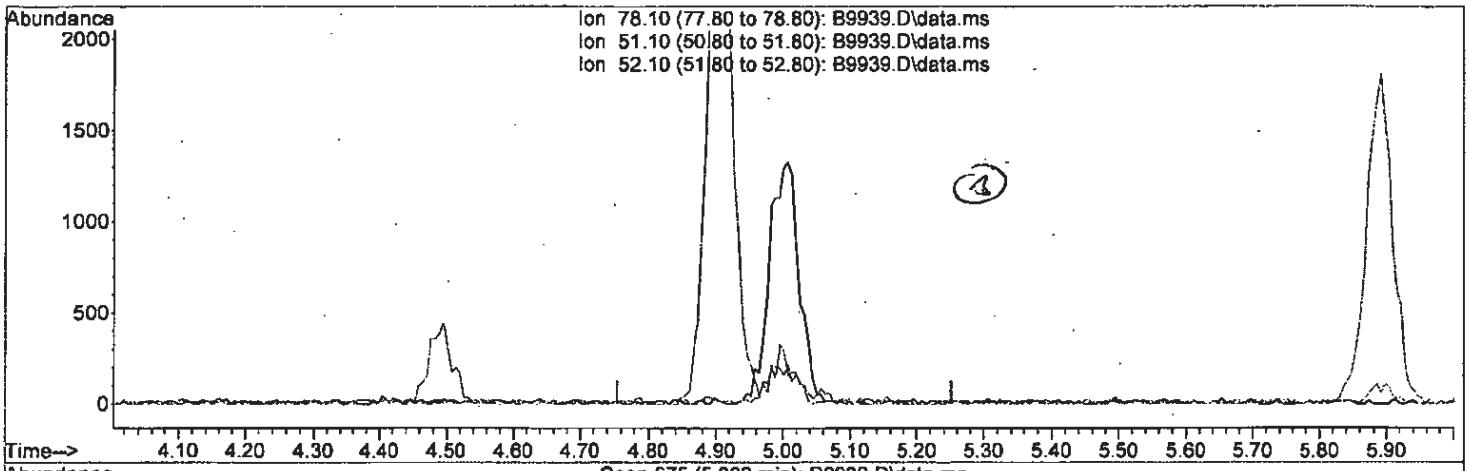
Ion	Exp%	Act%
120.90	100	100
82.00	86.40	131.58#
0.00	0.00	0.00
0.00	0.00	0.00

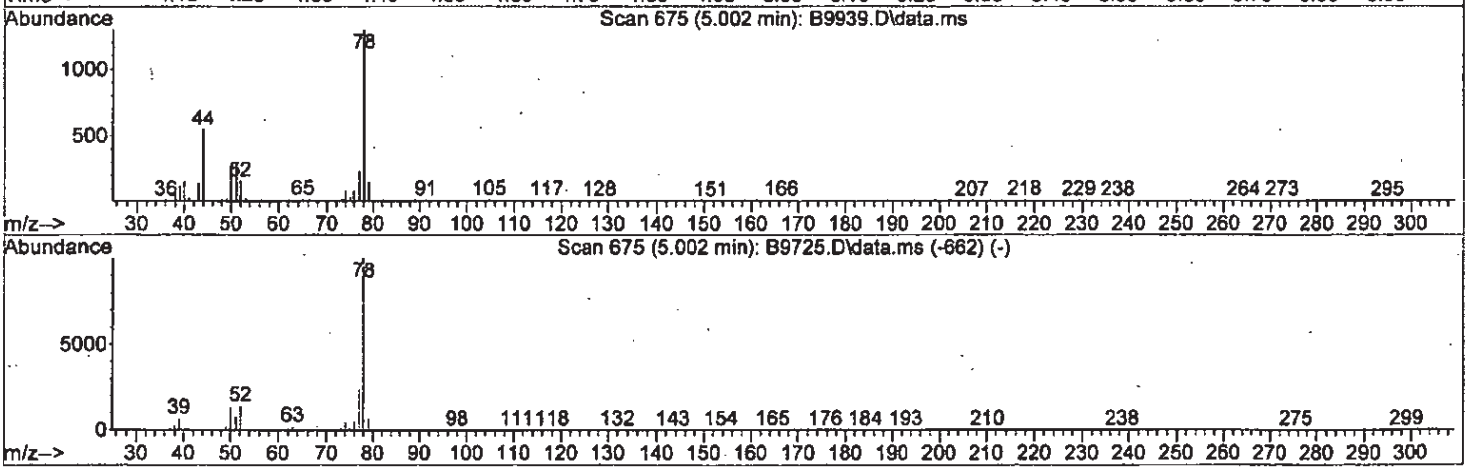
00280

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration





TIC: B9939.D\data.ms

(49) Benzene (P)

5.002min (-5.002) 0.00 ug/L

response 0

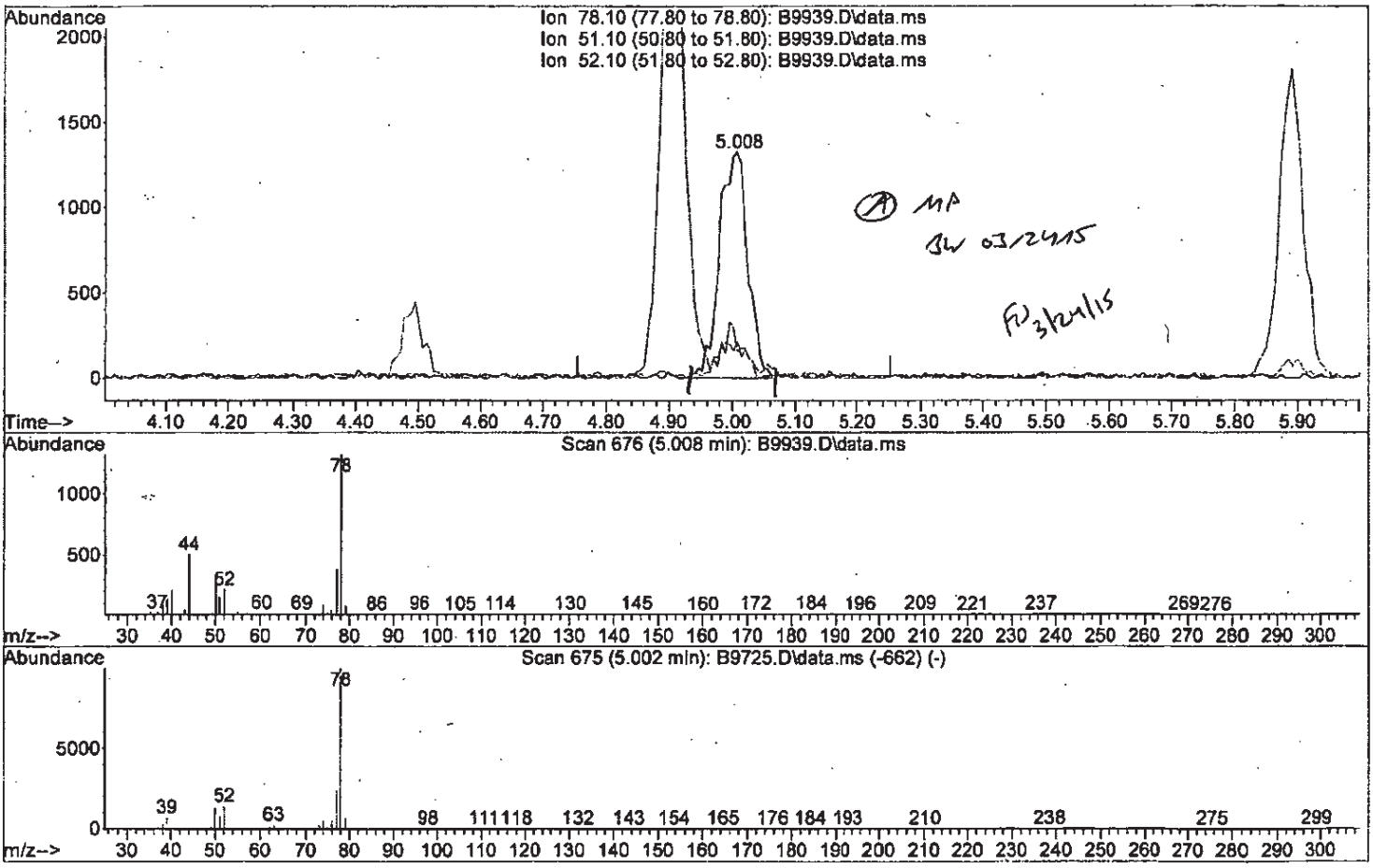
Ion	Exp%	Act%
78.10	100	0.0000
51.10	15.10	0.00
52.10	14.20	0.00
0.00	0.00	0.00

00281

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(49) Benzene (P)

5.008min (+0.006) 0.55 ug/L m

response 4080

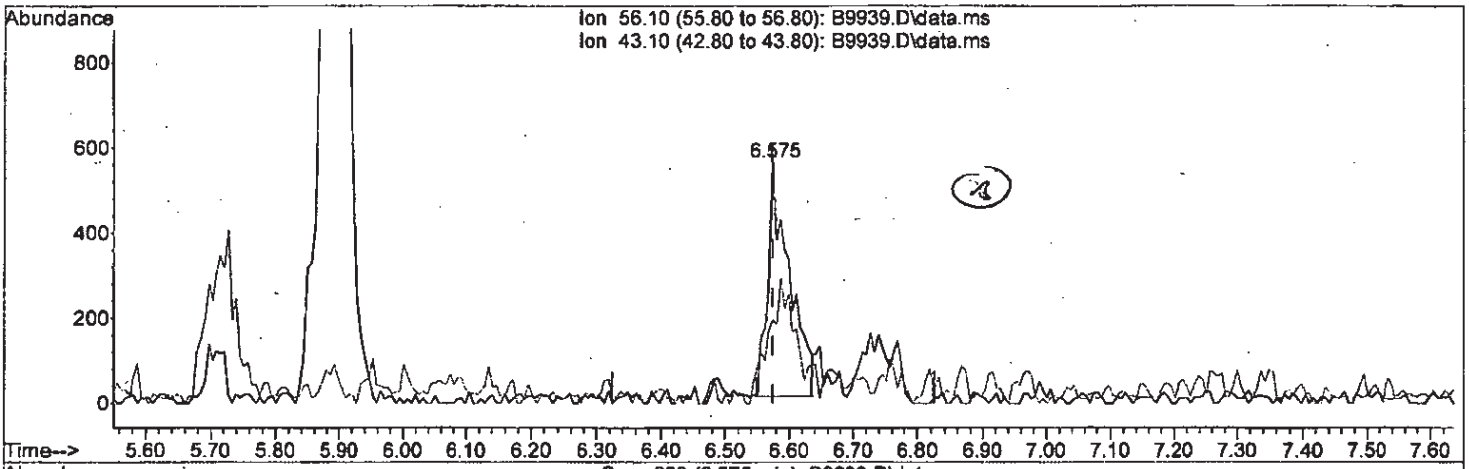
Ion	Exp%	Act%
78.10	100	100
51.10	15.10	11.57
52.10	14.20	16.19
0.00	0.00	0.00

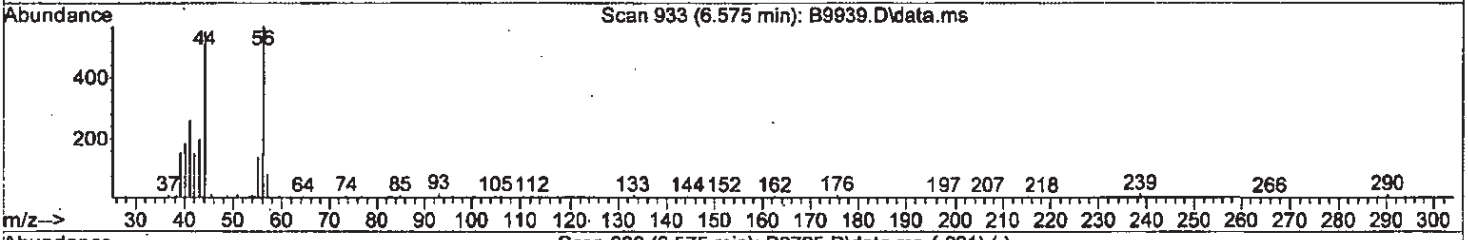
00282

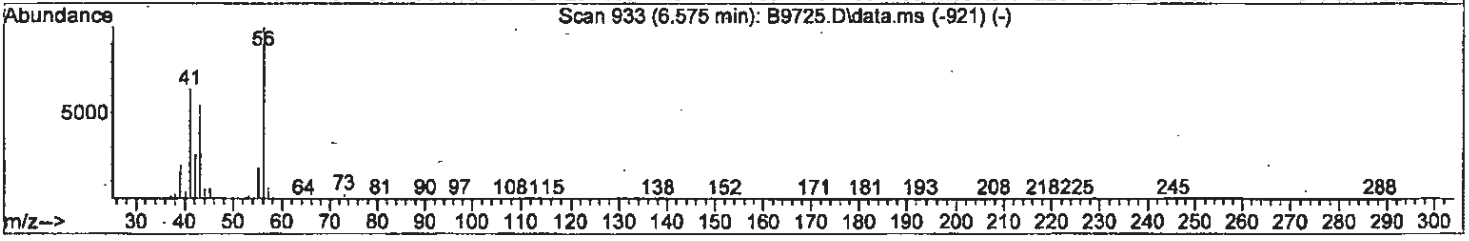
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(53) 1-Butanol

6.575min (+0.000) 25.17 ug/L

response 1282

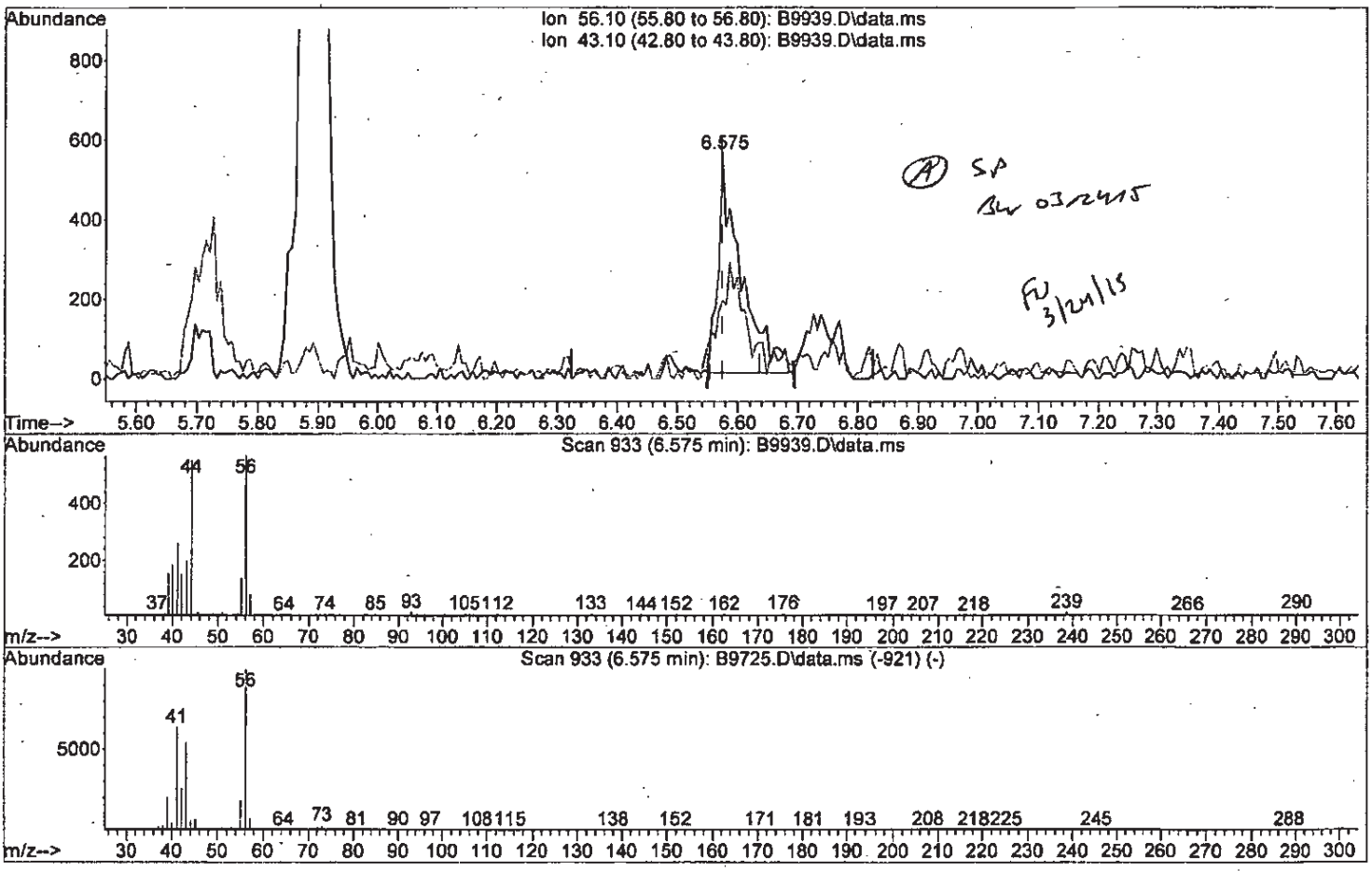
Ion	Exp%	Act%
56.10	100	100
43.10	54.50	34.63
0.00	0.00	0.00
0.00	0.00	0.00

00283

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



SP 03/24/15

FV 3/24/15

TIC: B9939.D\data.ms

(53) 1-Butanol

6.575min (+0.000) 28.35 ug/L m

response 1444

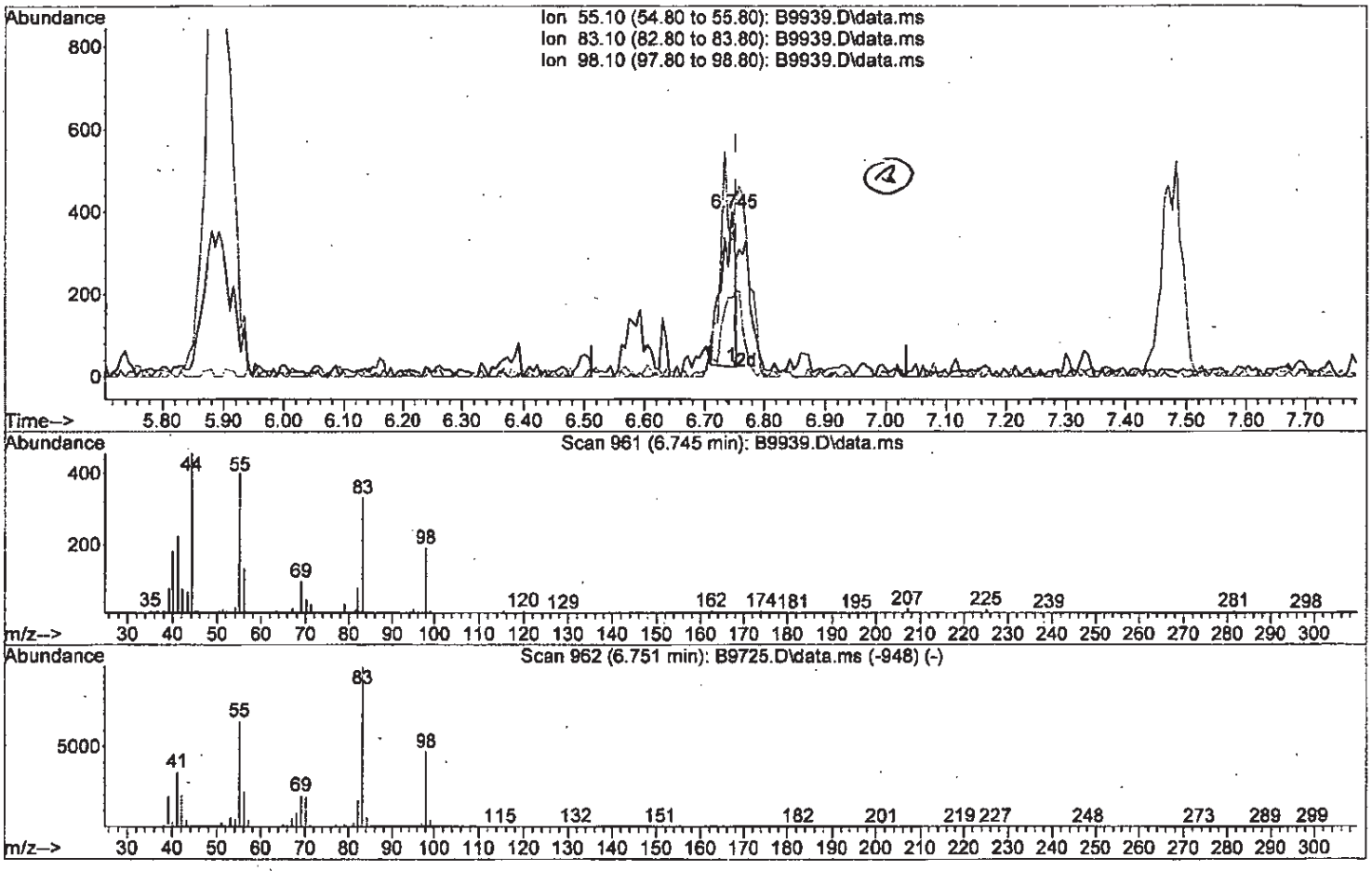
Ion	Exp%	Act%
56.10	100	100
43.10	54.50	34.63
0.00	0.00	0.00
0.00	0.00	0.00

00284

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(55) Methylcyclohexane (P)

6.745min (-0.006) 0.30 ug/L

response 606

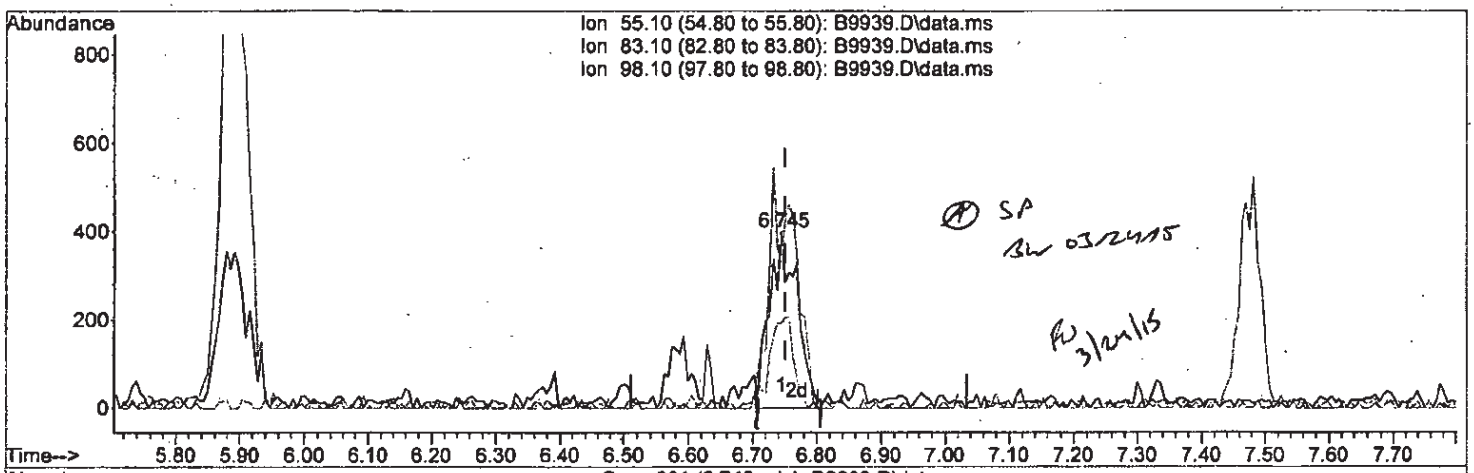
Ion	Exp%	Act%
55.10	100	100
83.10	150.70	82.96#
98.10	70.40	47.87#
0.00	0.00	0.00

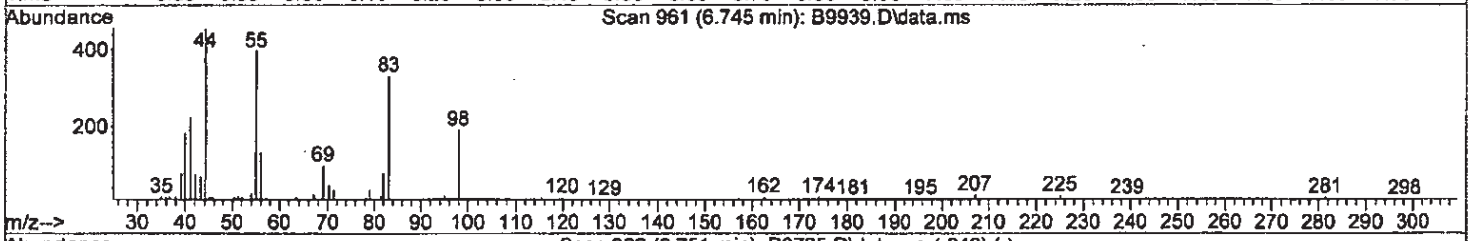
00285

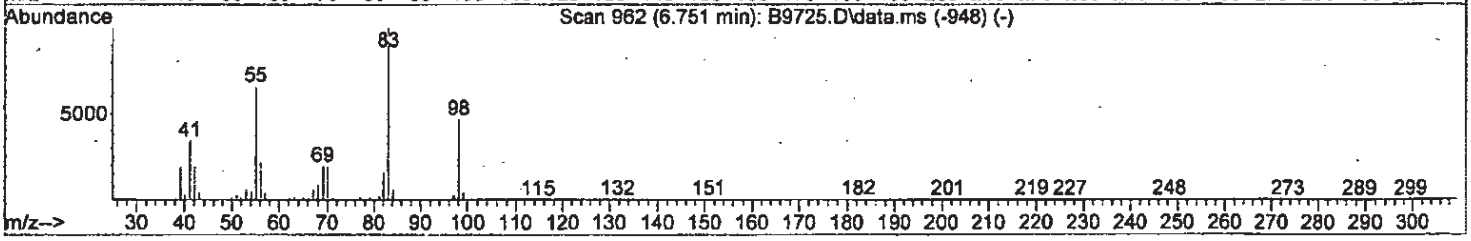
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(55) Methylcyclohexane (P)

6.745min (-0.006) 0.59 ug/L m

response 1181

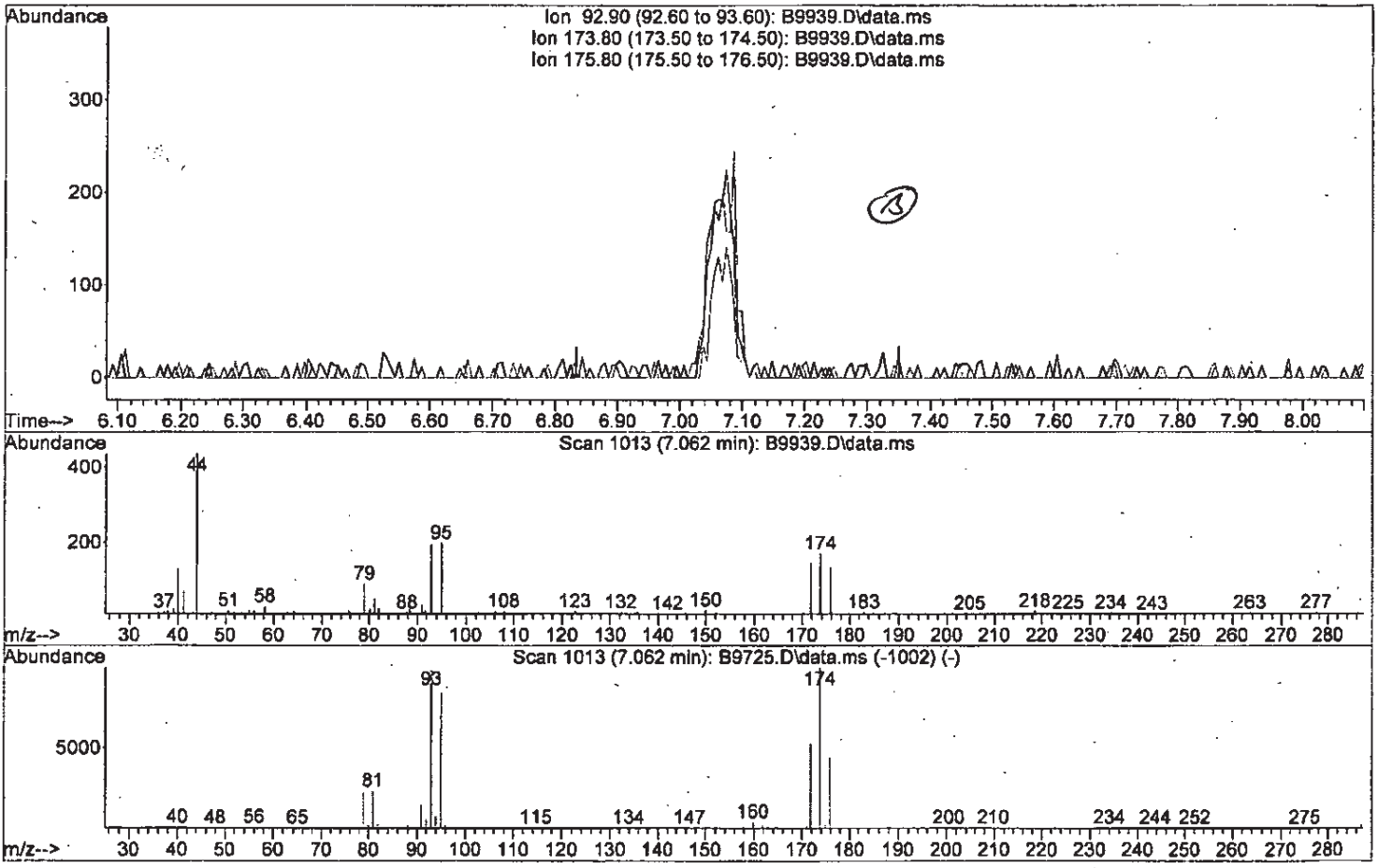
Ion	Exp%	Act%
55.10	100	100
83.10	150.70	82.96#
98.10	70.40	47.87#
0.00	0.00	0.00

00286

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(57) Dibromomethane

7.062min (-7.062) 0.00 ug/L

response 0

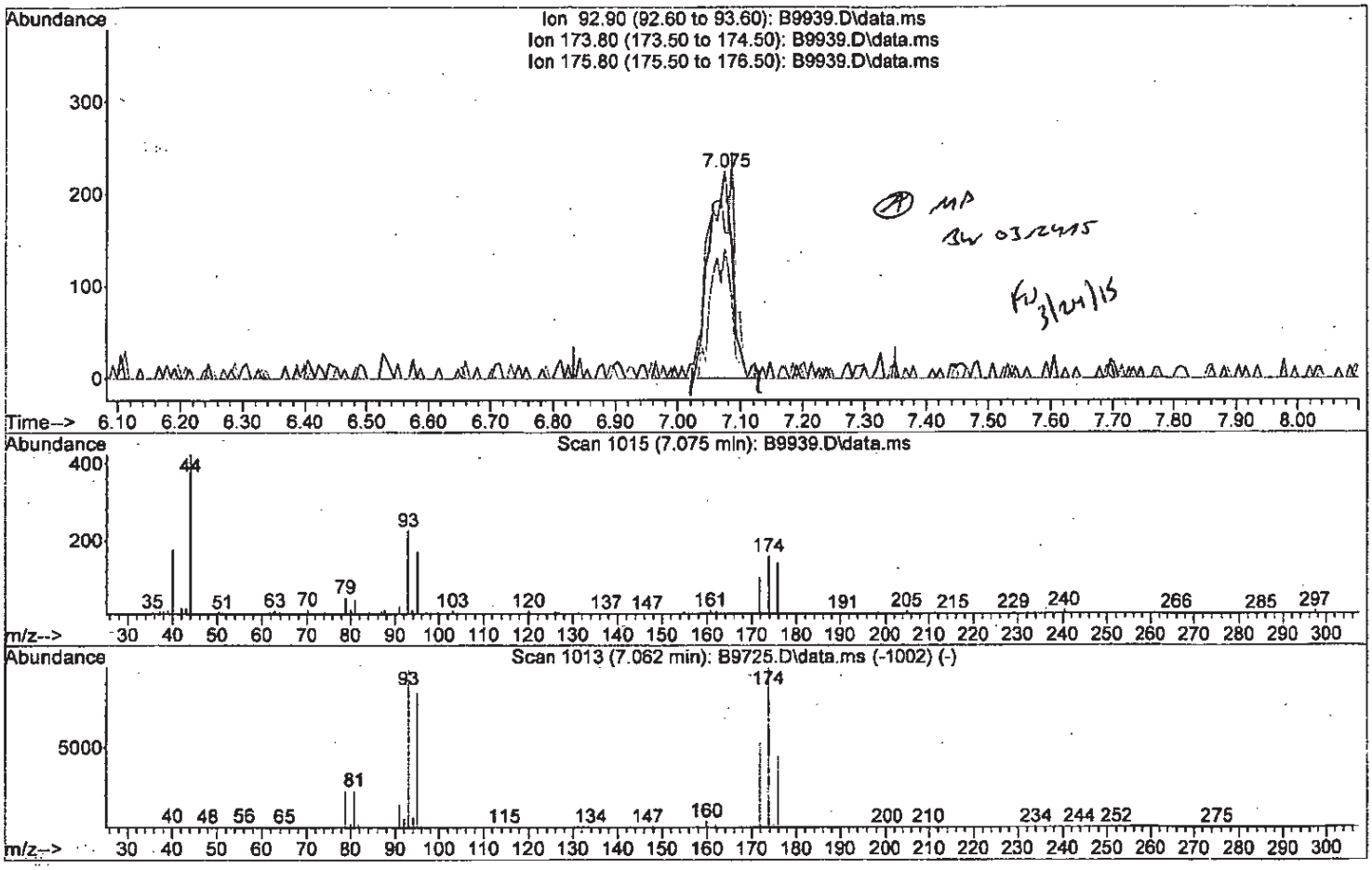
Ion	Exp%	Act%
92.90	100	0.0000
173.80	101.20	0.00#
175.80	44.40	0.00#
0.00	0.00	0.00

00287

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(57) Dibromomethane

7.075min (+0.012) 0.45 ug/L m

response 575

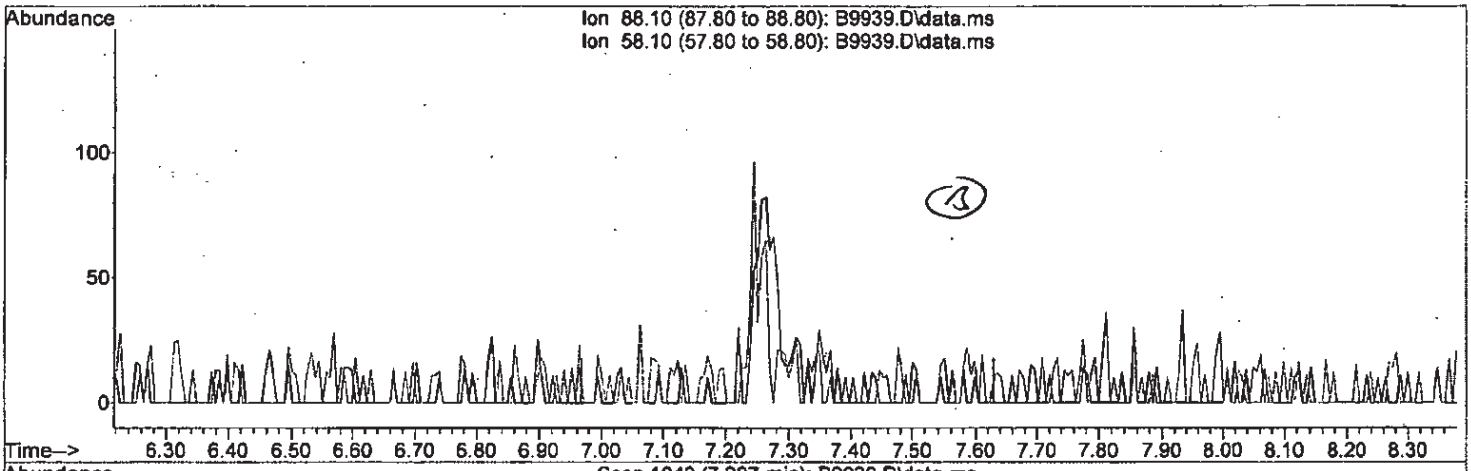
Ion	Exp%	Act%
92.90	100	100
173.80	101.20	70.54#
175.80	44.40	62.95
0.00	0.00	0.00

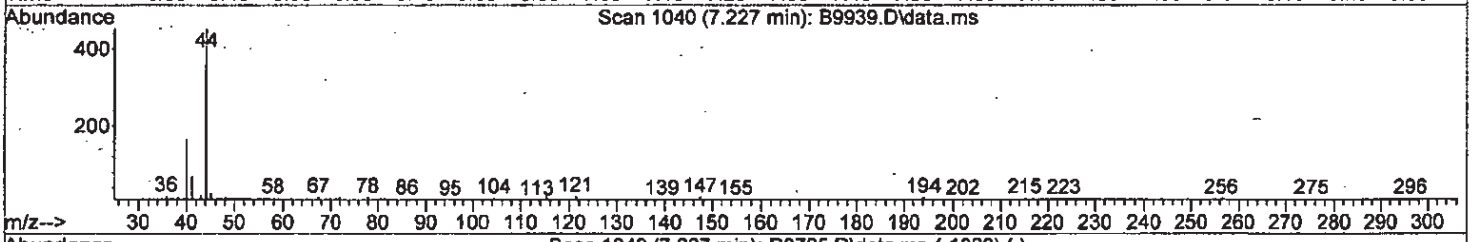
00288

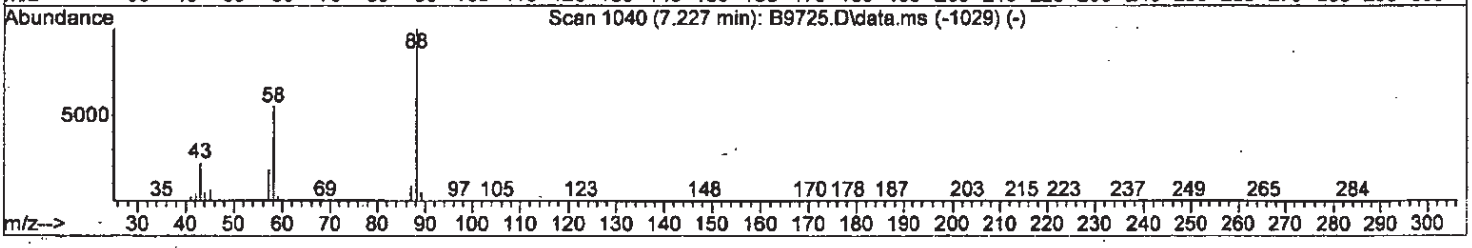
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(58) 1,4-Dioxane

7.227min (-7.227) 0.00 ug/L

response 0

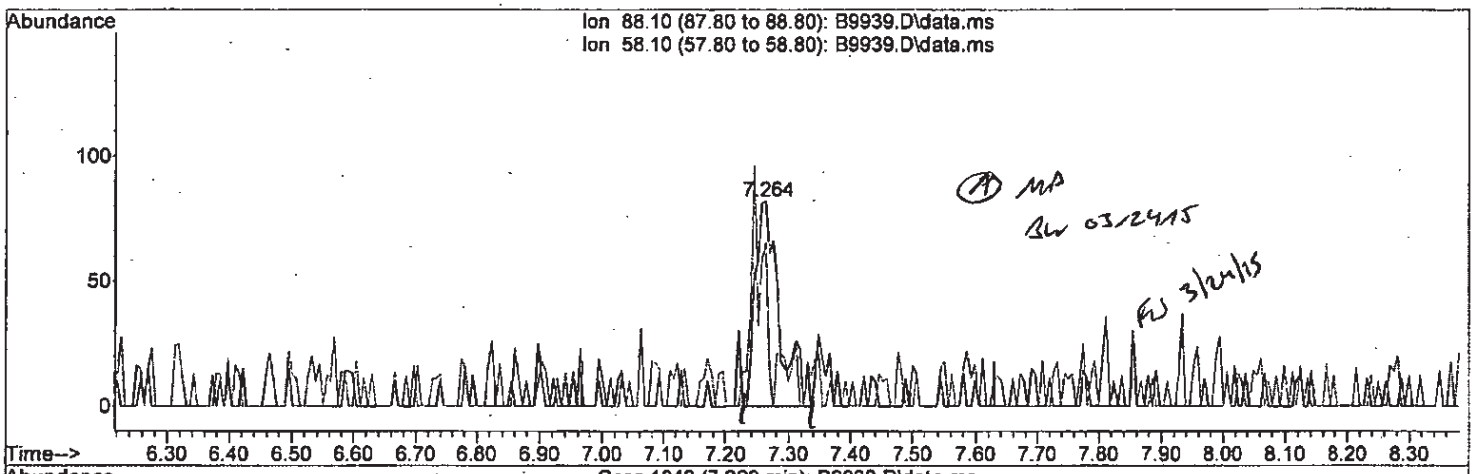
Ion	Exp%	Act%
88.10	100	0.0000
58.10	54.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

00289

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(58) 1,4-Dioxane

7.263min (+0.037) 6.84 ug/L m

response 220

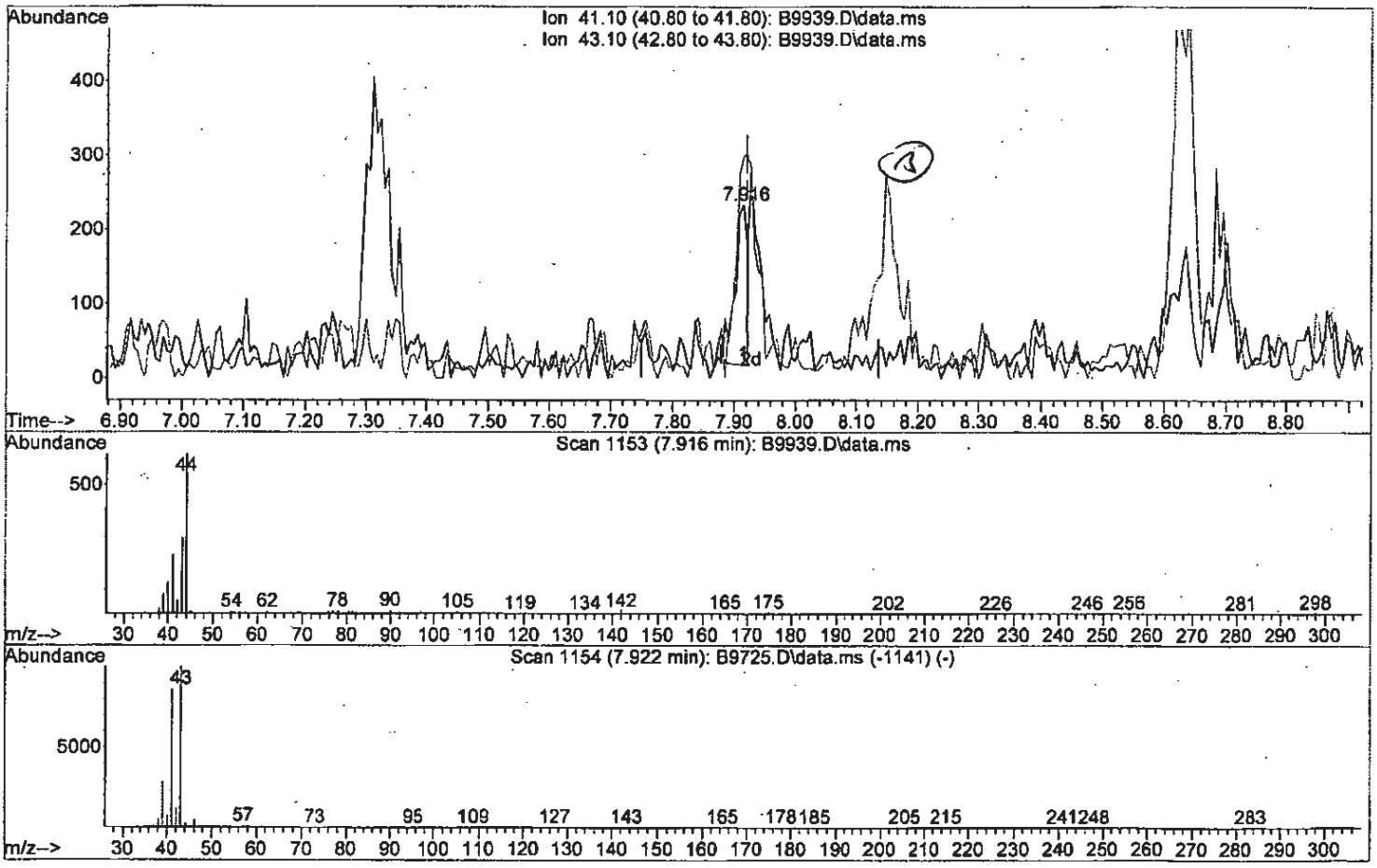
Ion	Exp%	Act%
88.10	100	100
58.10	54.90	79.27#
0.00	0.00	0.00
0.00	0.00	0.00

00290

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(61) 2-Nitropropane

7.916min (-0.006) 0.77 ug/L

response 309

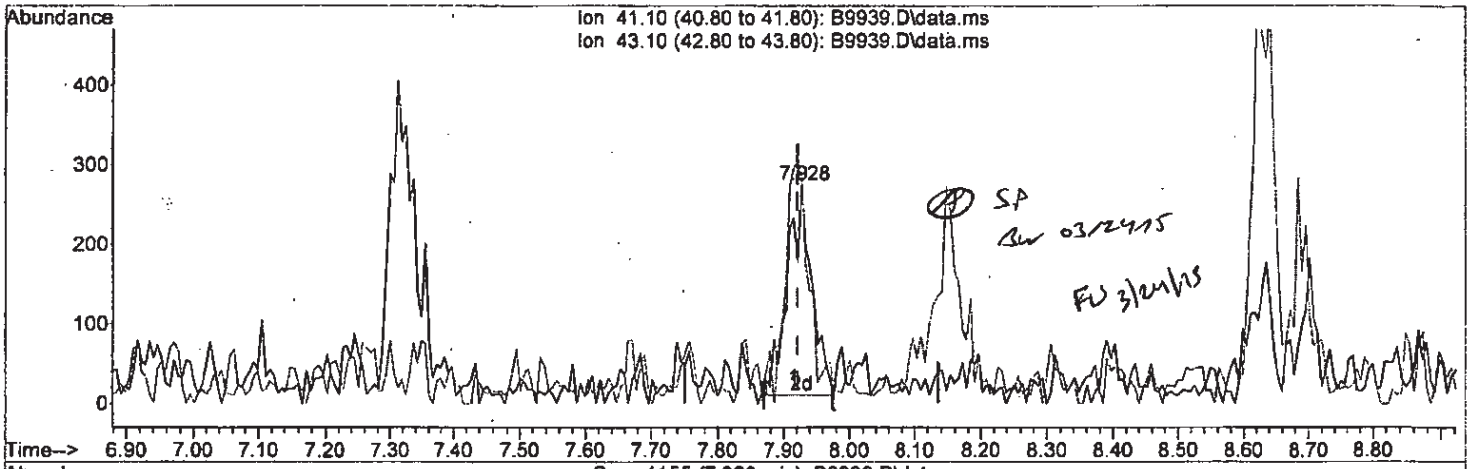
Ion	Exp%	Act%
41.10	100	100
43.10	115.50	127.04
0.00	0.00	0.00
0.00	0.00	0.00

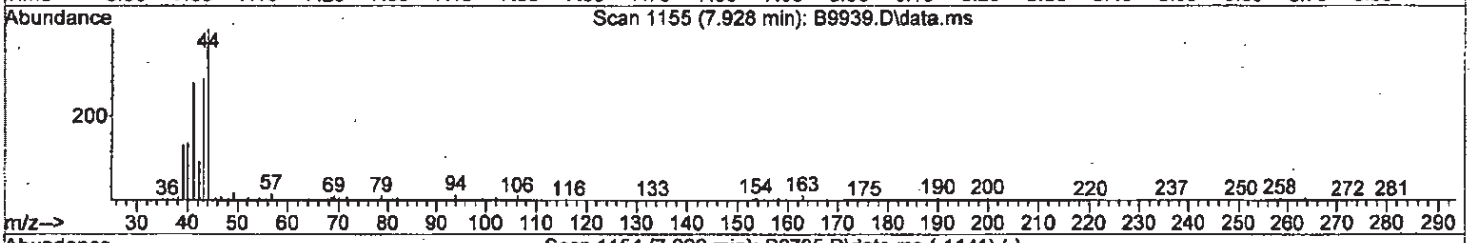
00291

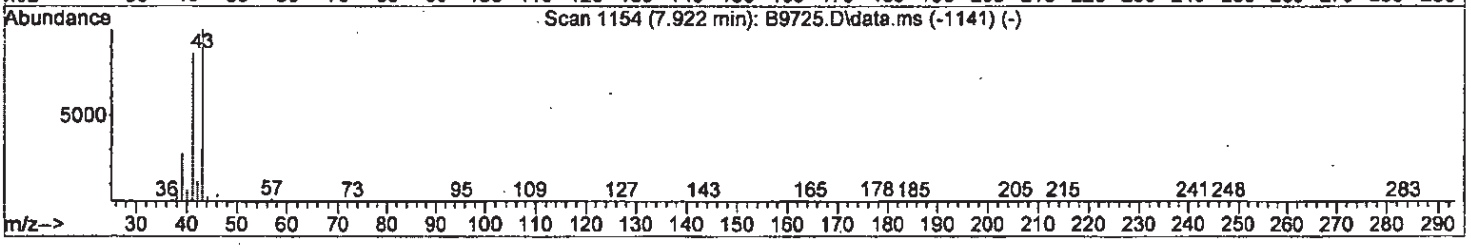
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(61) 2-Nitropropane

7.928min (+0.006) 1.69 ug/L m

response 676

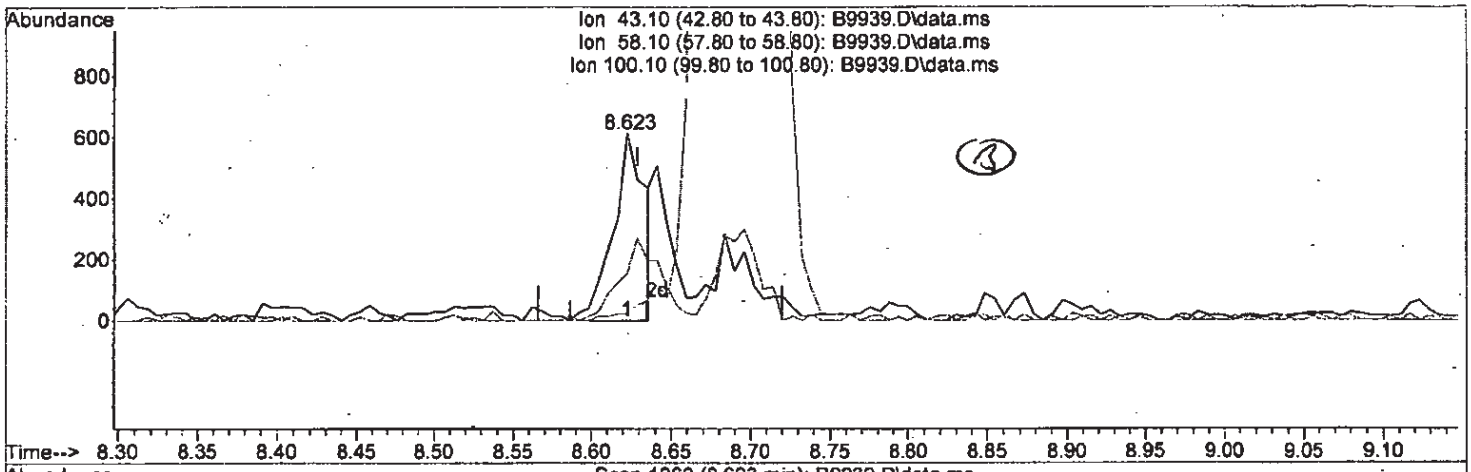
Ion	Exp%	Act%
41.10	100	100
43.10	115.50	103.27
0.00	0.00	0.00
0.00	0.00	0.00

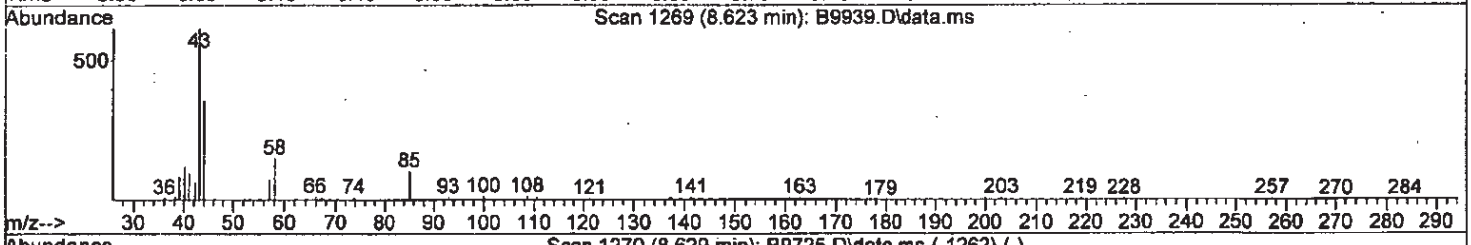
00292

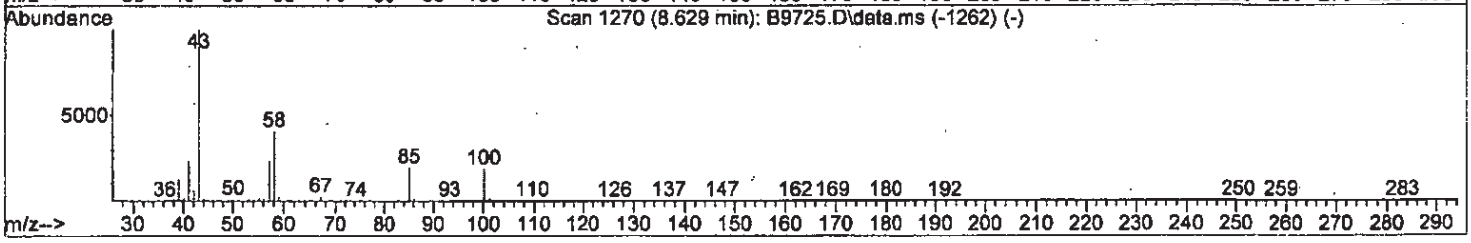
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(64) 4-Methyl-2-pentanone (P)

8.623min (-0.006) 0.48 ug/L

response 828

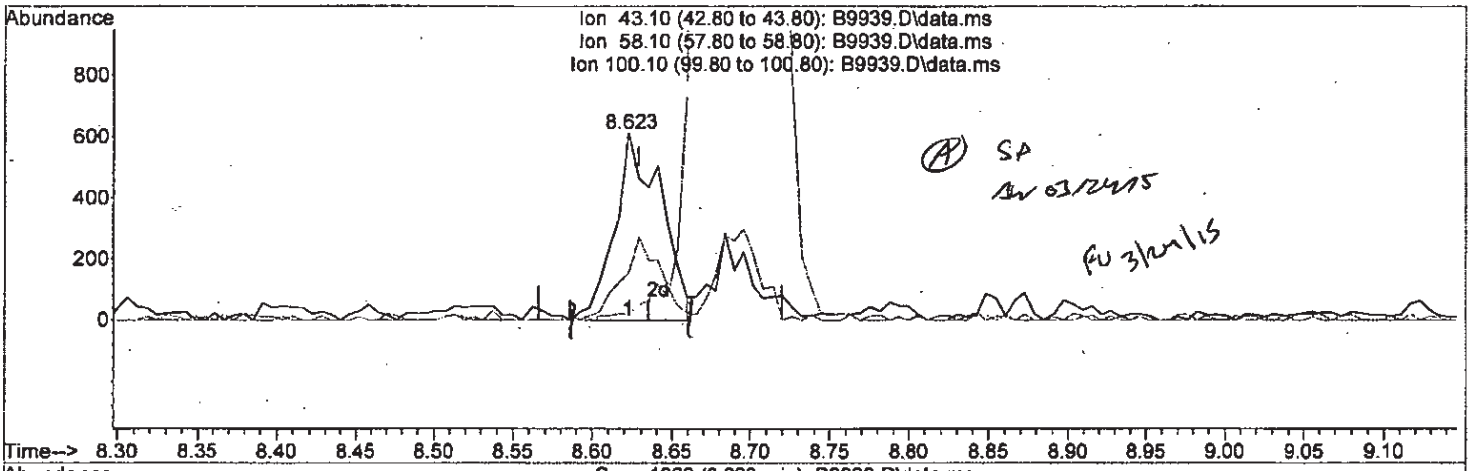
Ion	Exp%	Act%
43.10	100	100
58.10	40.60	25.20
100.10	18.50	3.27
0.00	0.00	0.00

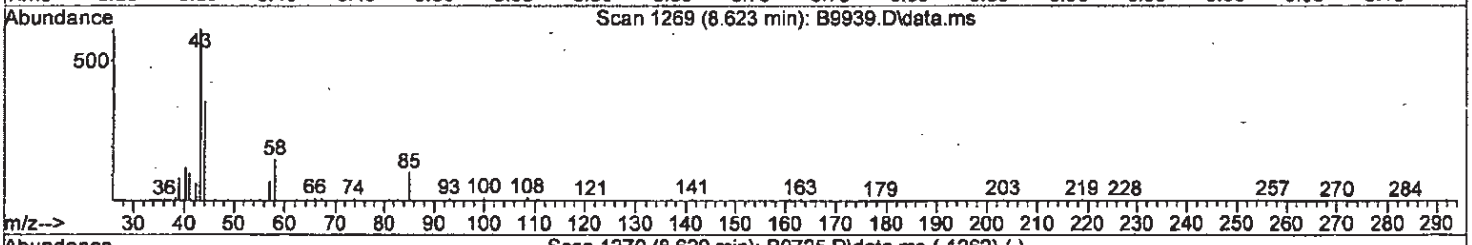
00293

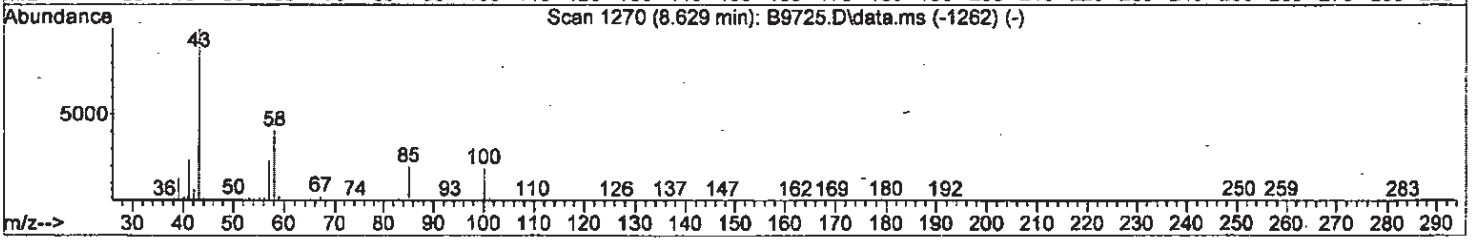
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(64) 4-Methyl-2-pentanone (P)

8.623min (-0.006) 0.71 ug/L m

response 1221

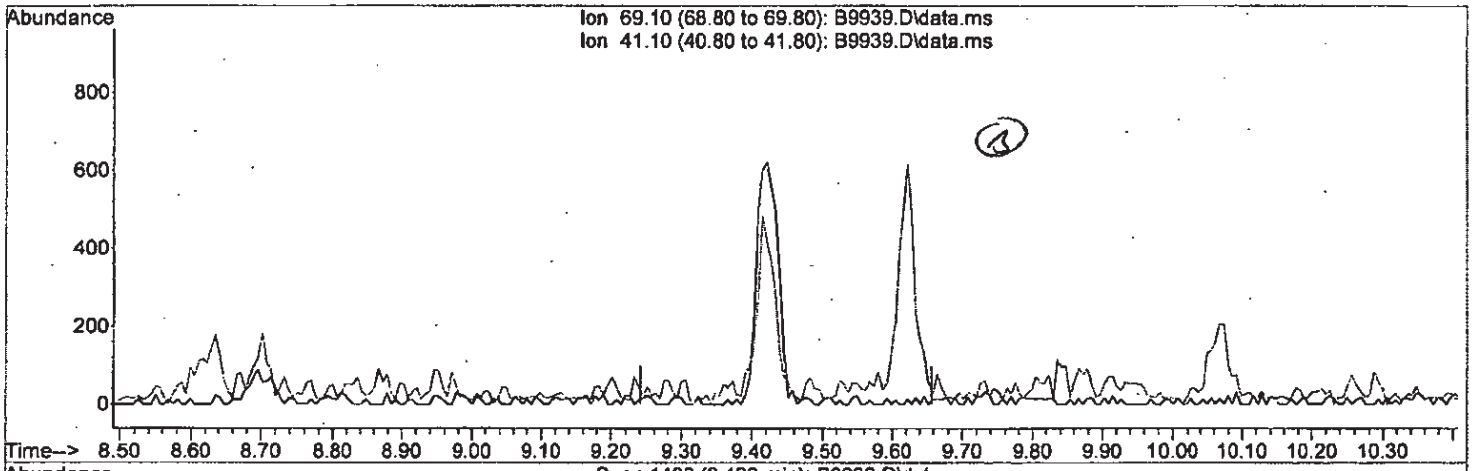
Ion	Exp%	Act%
43.10	100	100
58.10	40.60	25.20
100.10	18.50	3.27
0.00	0.00	0.00

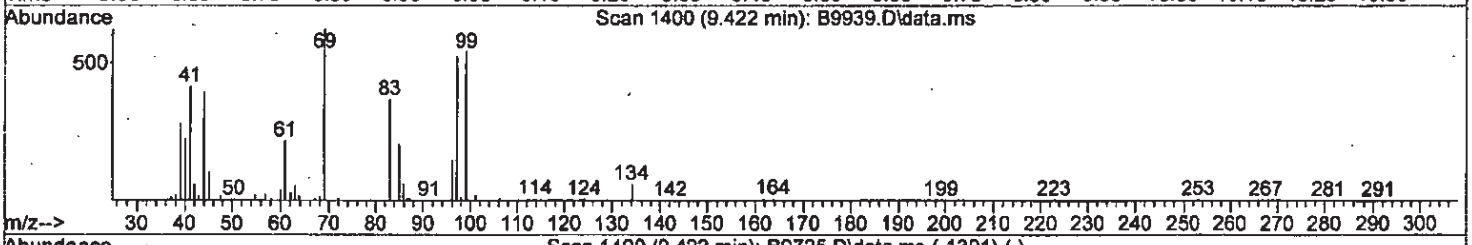
00294

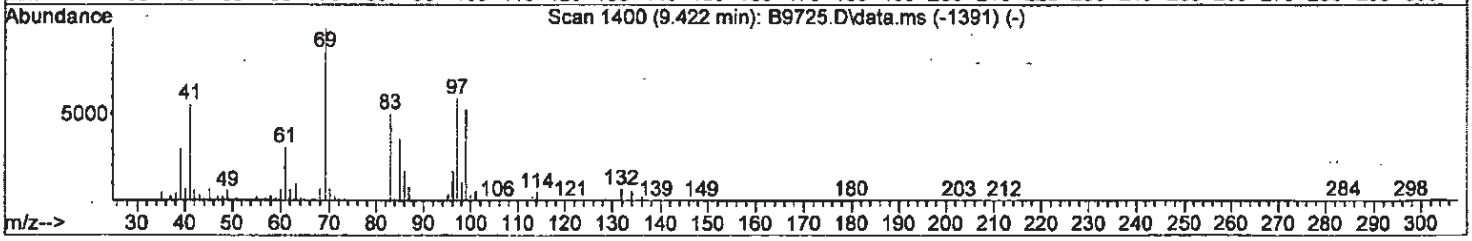
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(68) Ethyl Methacrylate

9.422min (-9.422) 0.00 ug/L

response 0

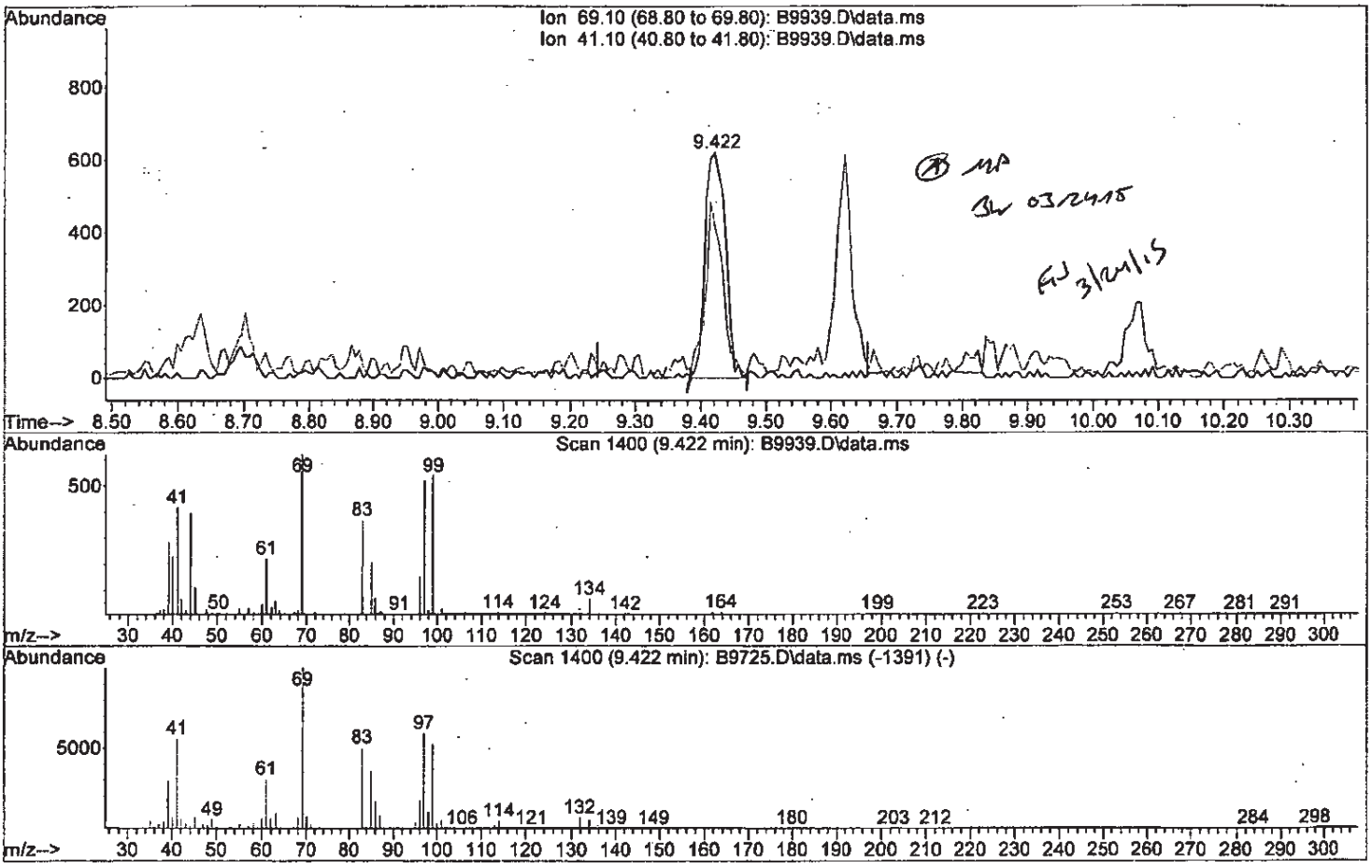
Ion	Exp%	Act%
69.10	100	0.0000
41.10	55.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

00295

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(68) Ethyl Methacrylate

9.422min (+0.000) 0.57 ug/L m

response 1317

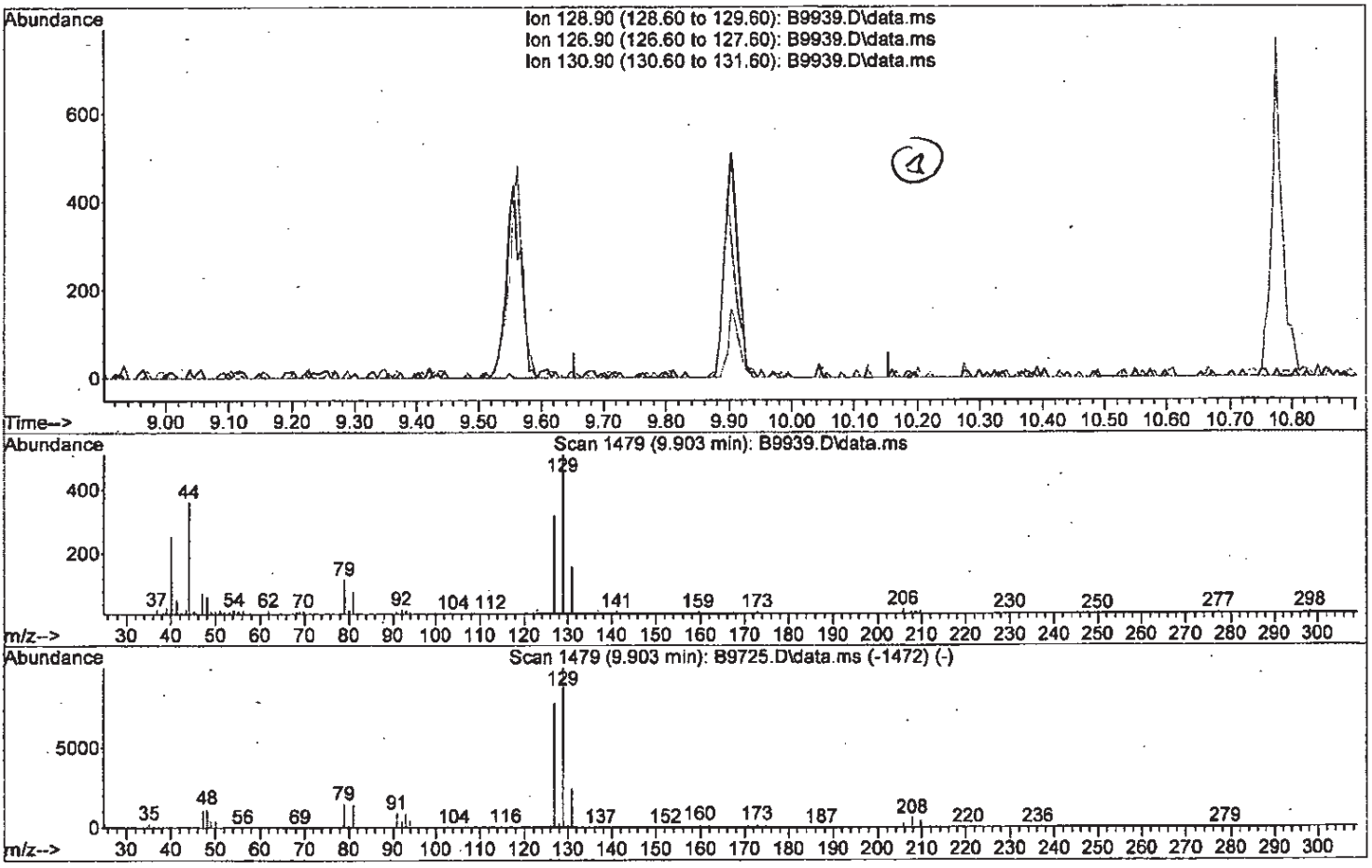
Ion	Exp%	Act%
69.10	100	100
41.10	55.90	67.10
0.00	0.00	0.00
0.00	0.00	0.00

00296

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(75) Dibromochloromethane (P)

9.903min (-9.903) 0.00 ug/L

response 0

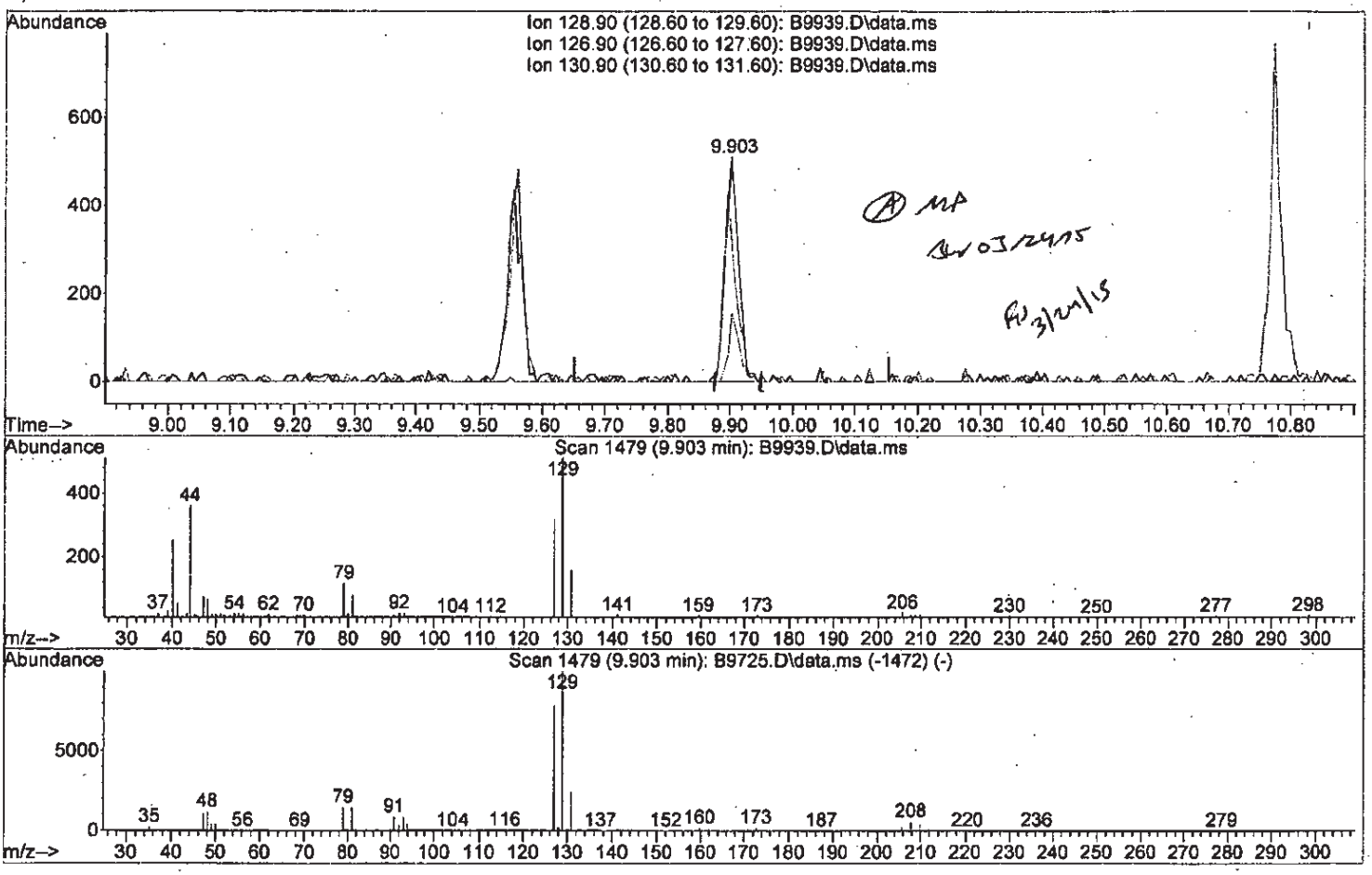
Ion	Exp%	Act%
128.90	100	0.0000
126.90	77.90	0.00#
130.90	24.10	0.00#
0.00	0.00	0.00

00297

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(75) Dibromochloromethane (P)

9.903min (+0.000) 0.45 ug/L m

response 763

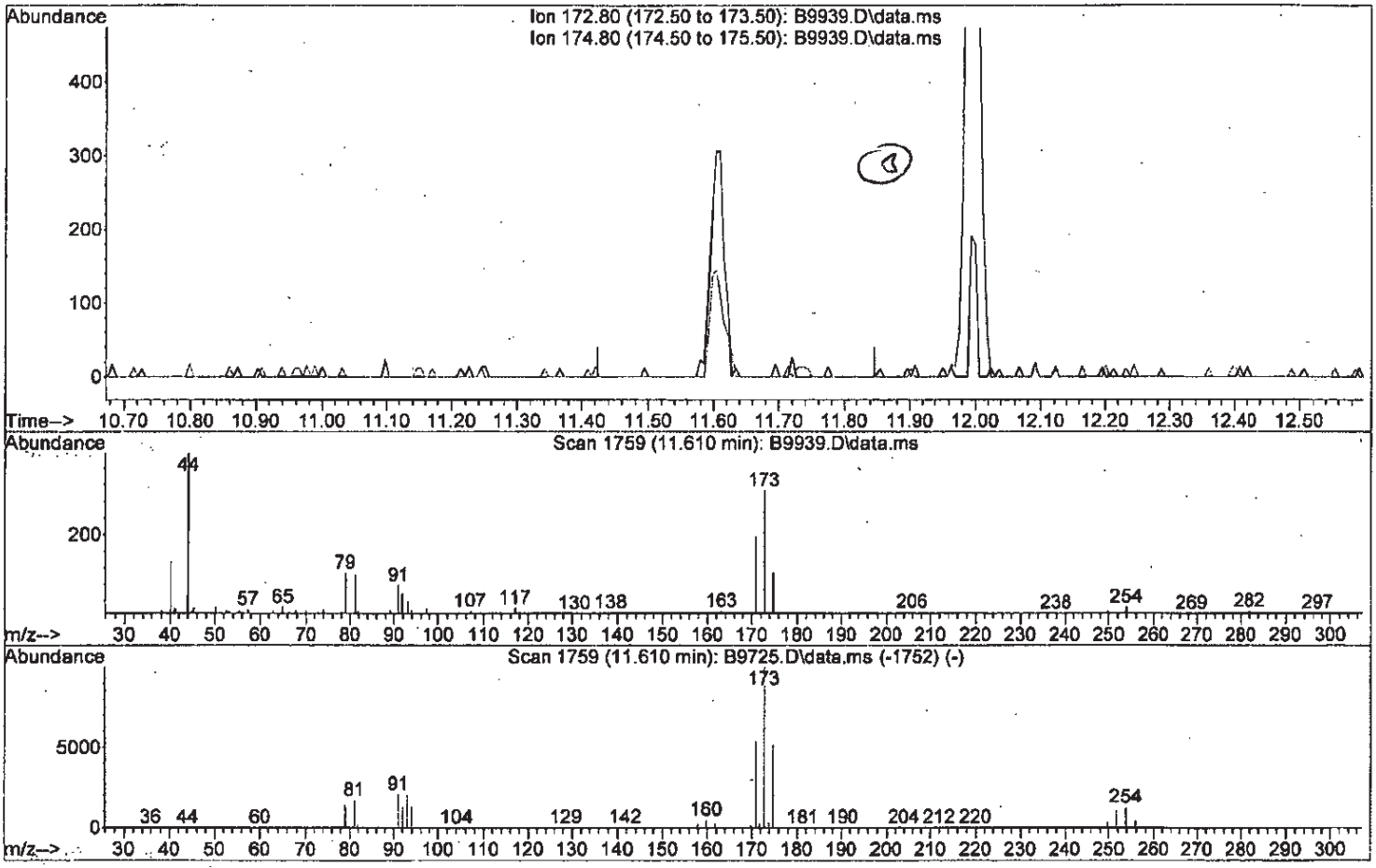
Ion	Exp%	Act%
128.90	100	100
126.90	77.90	61.96
130.90	24.10	30.78
0.00	0.00	0.00

00298

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(86) Bromoform (P)

11.610min (-11.610) 0.00 ug/L

response 0

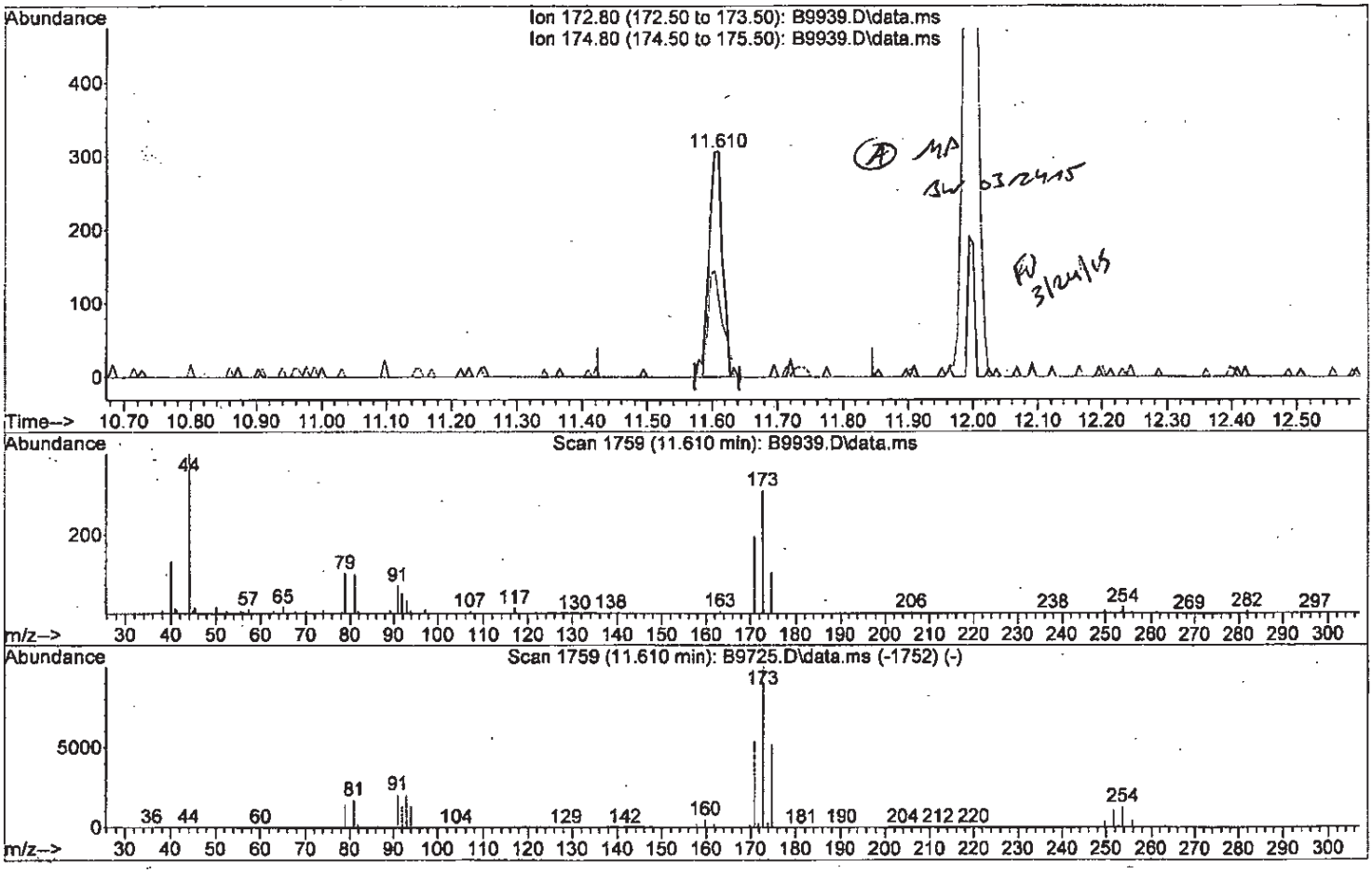
Ion	Exp%	Act%
172.80	100	0.0000
174.80	52.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

00299

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(86) Bromoform (P)

11.610min (+0.000) 0.36 ug/L m

response 457

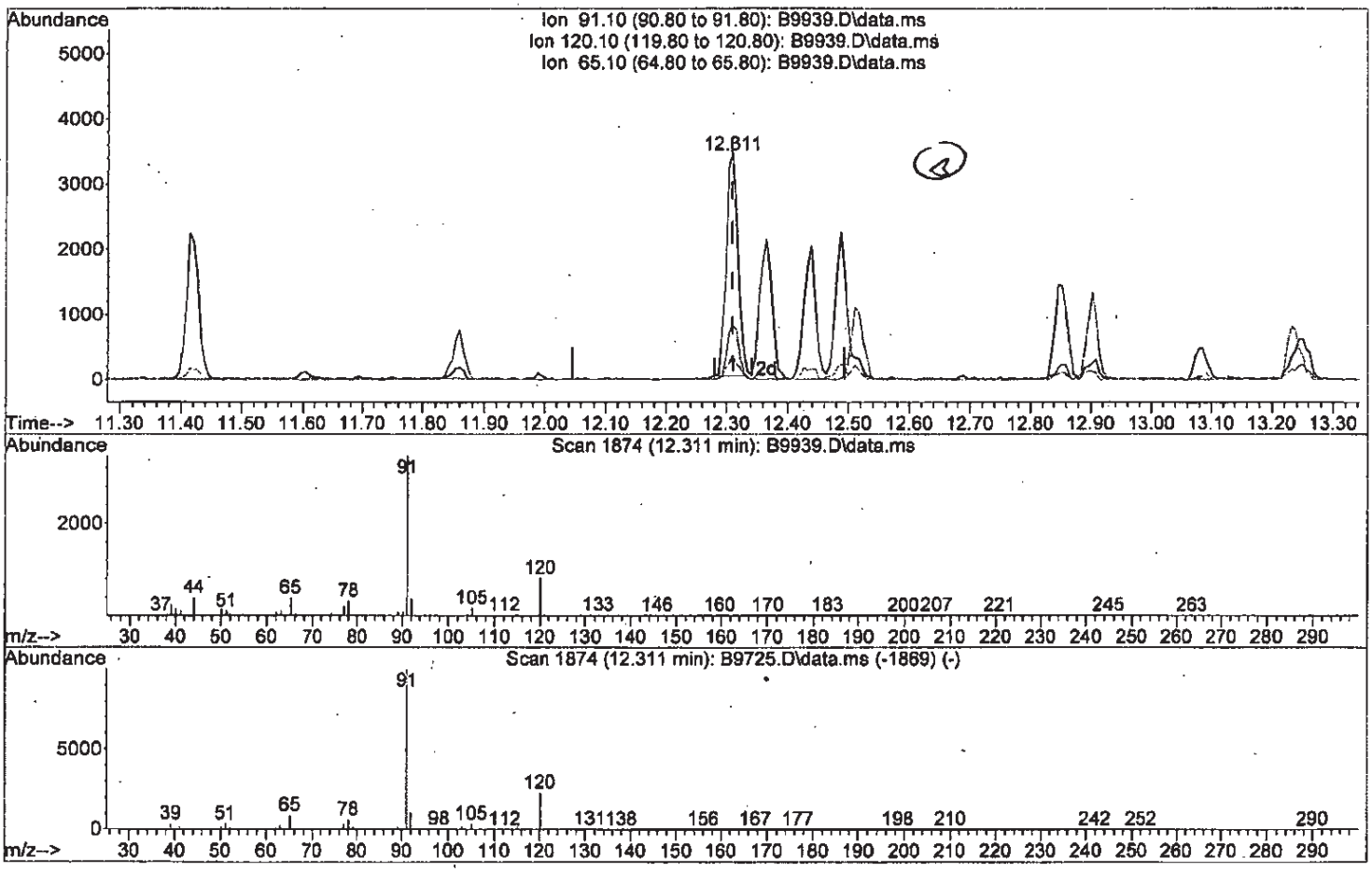
Ion	Exp%	Act%
172.80	100	100
174.80	52.00	35.29
0.00	0.00	0.00
0.00	0.00	0.00

00308

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(98) n-Propylbenzene

12.311min (+0.000) 0.56 ug/L

response 4664

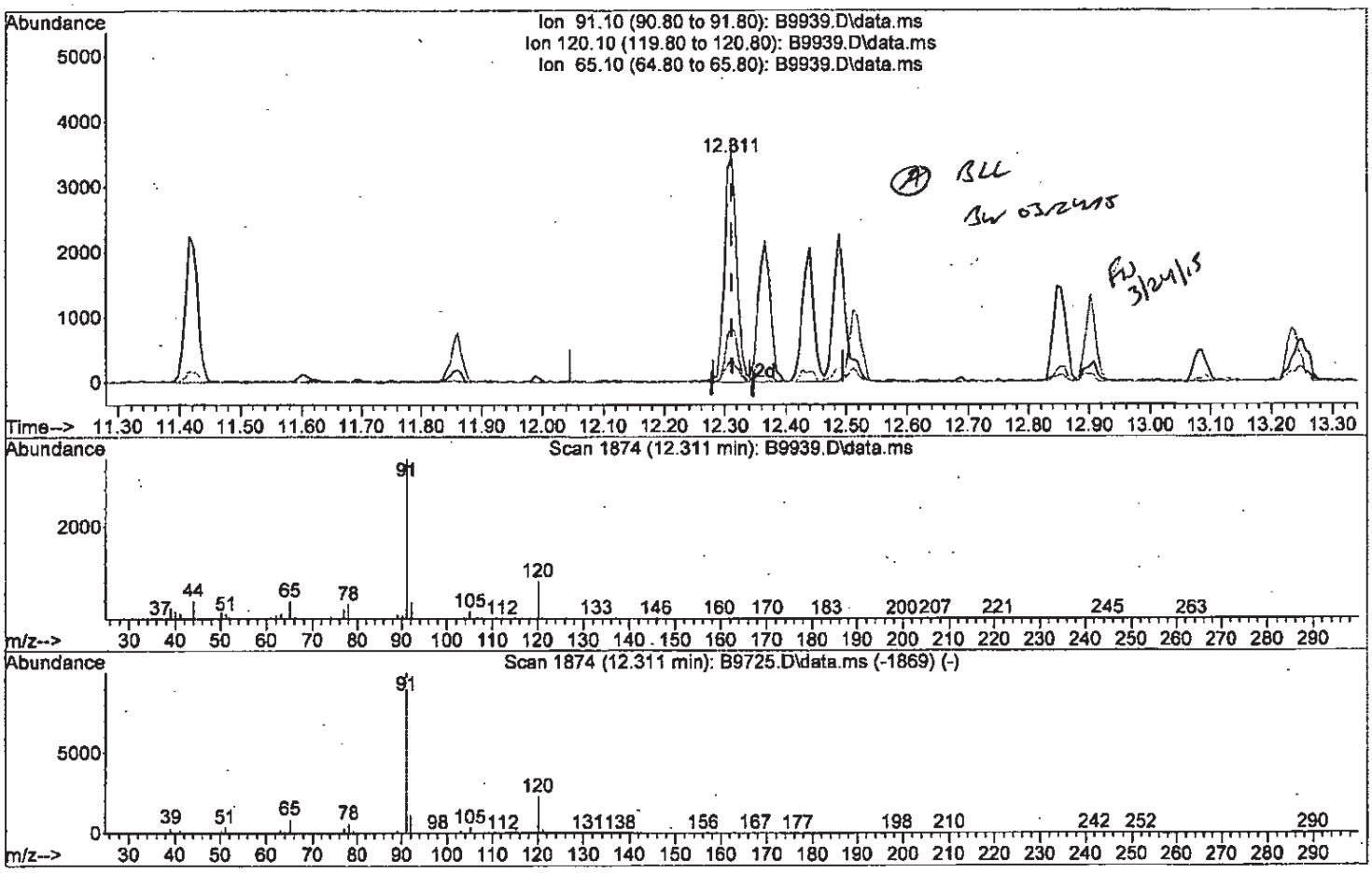
Ion	Exp%	Act%
91.10	100	100
120.10	22.70	23.68
65.10	8.70	11.23
0.00	0.00	0.00

00301

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(96) n-Propylbenzene

12.311min (+0.000) 0.58 ug/L m

response 4869

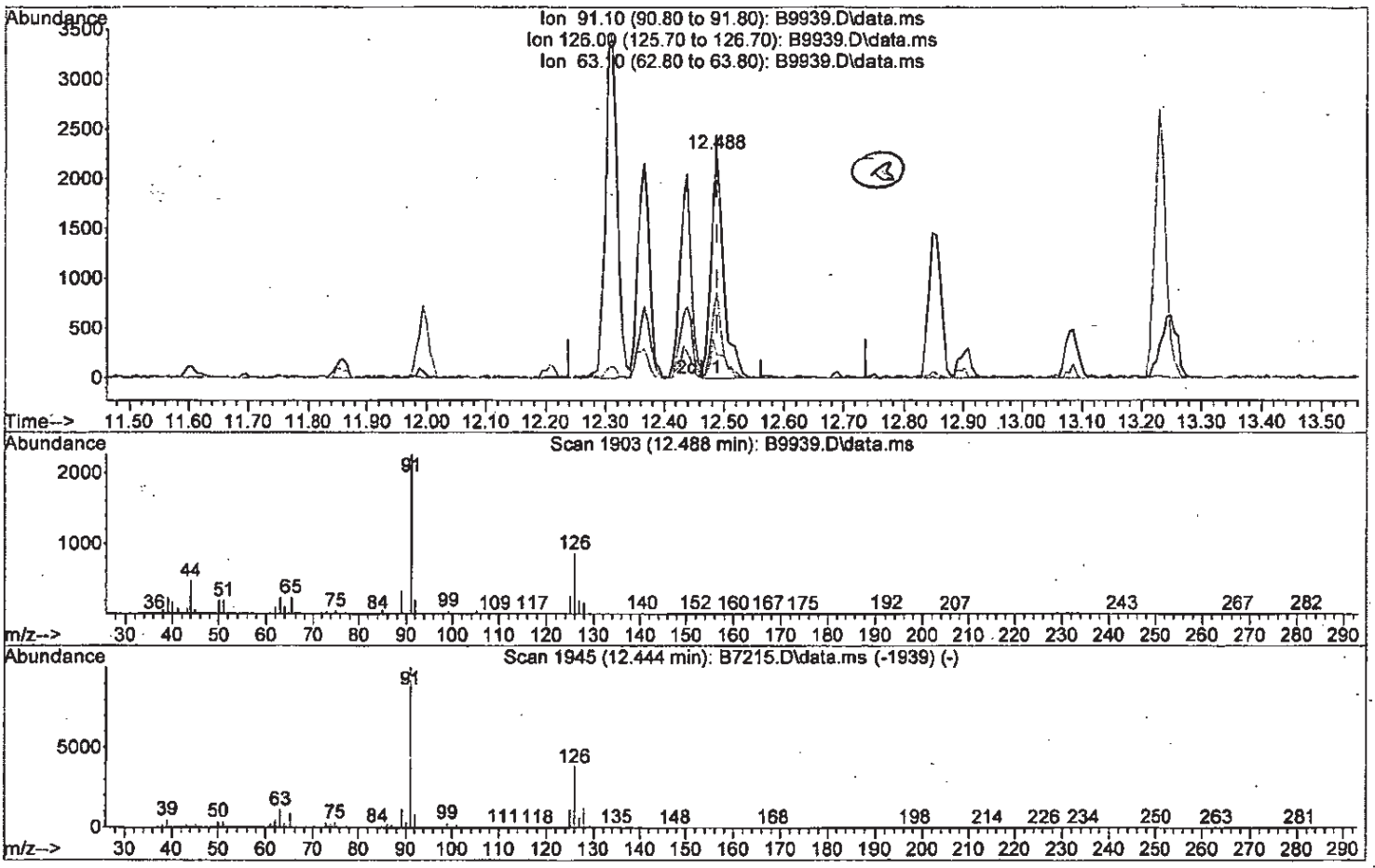
Ion	Exp%	Act%
91.10	100	100
120.10	22.70	23.68
65.10	8.70	11.23
0.00	0.00	0.00

00302

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(98) 3-Chlorotoluene

12.488min (+0.000) 5.09 ug/L

response 3257

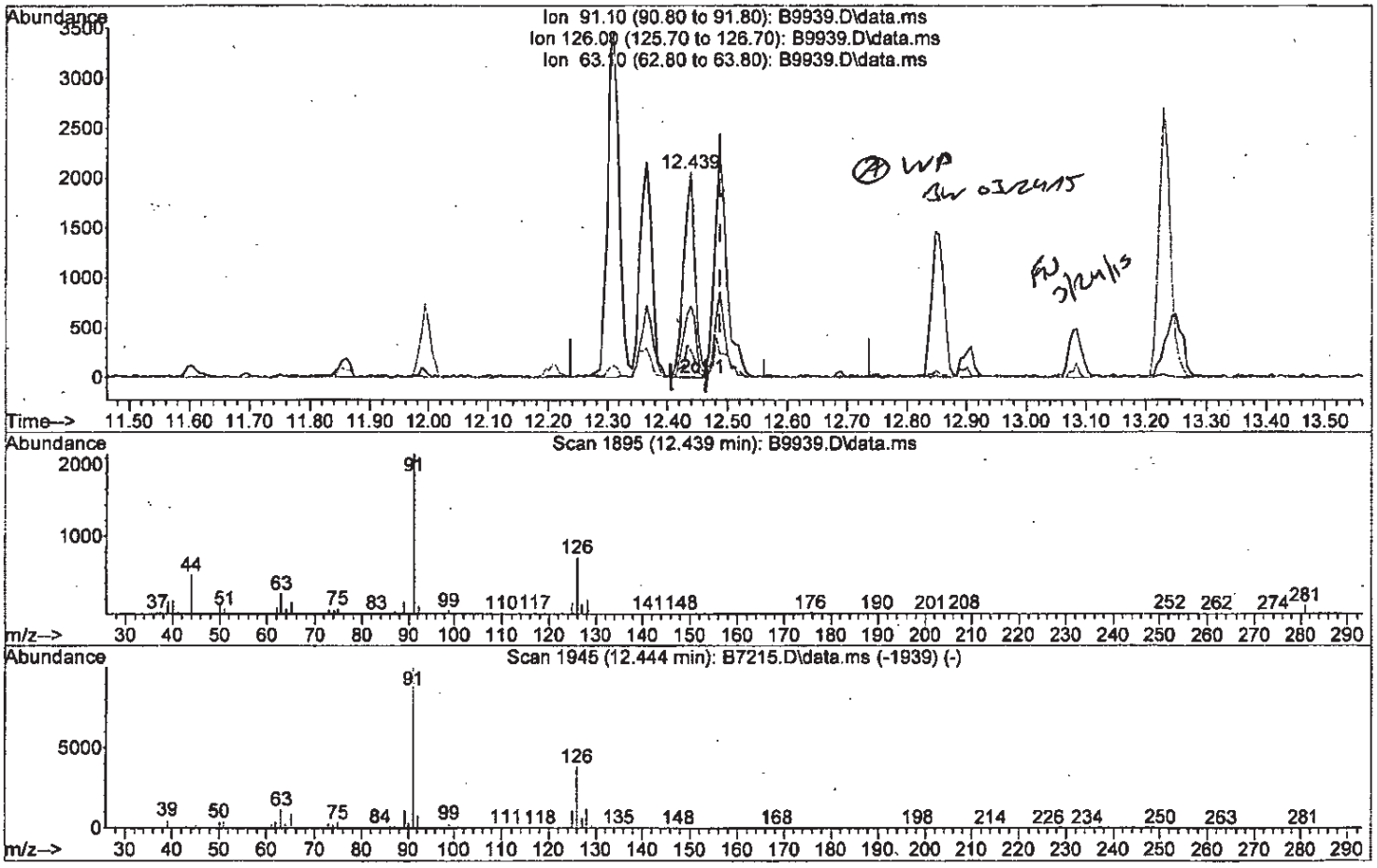
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	38.16
63.10	11.90	10.31
0.00	0.00	0.00

00303

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9939.D\data.ms

(98) 3-Chlorotoluene

12.439min (-0.049) 4.17 ug/L m

response 2668

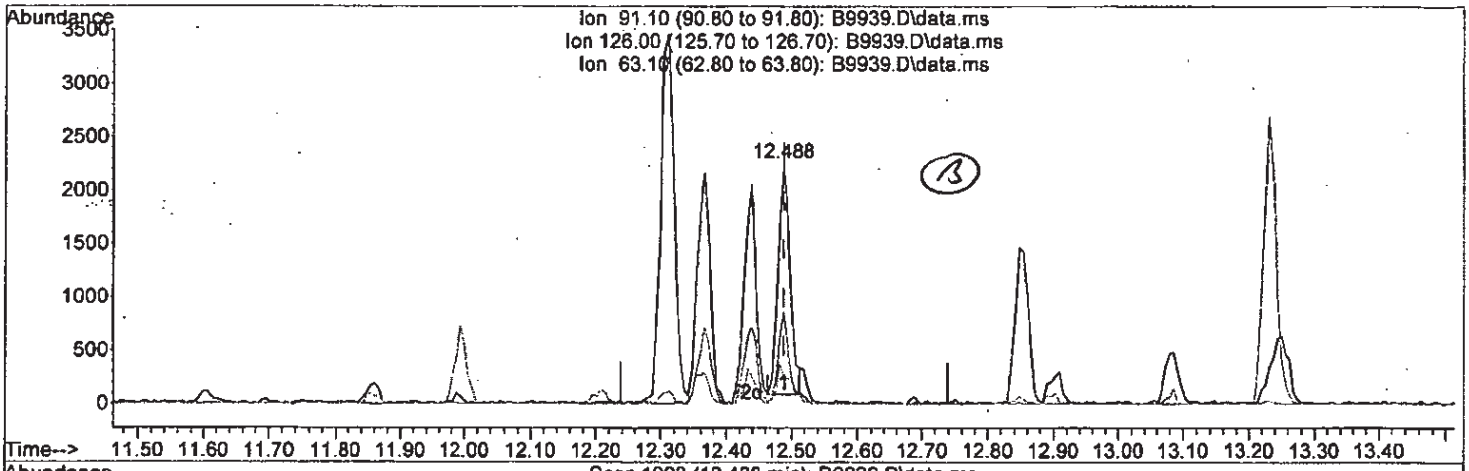
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	35.33
63.10	11.90	12.79
0.00	0.00	0.00

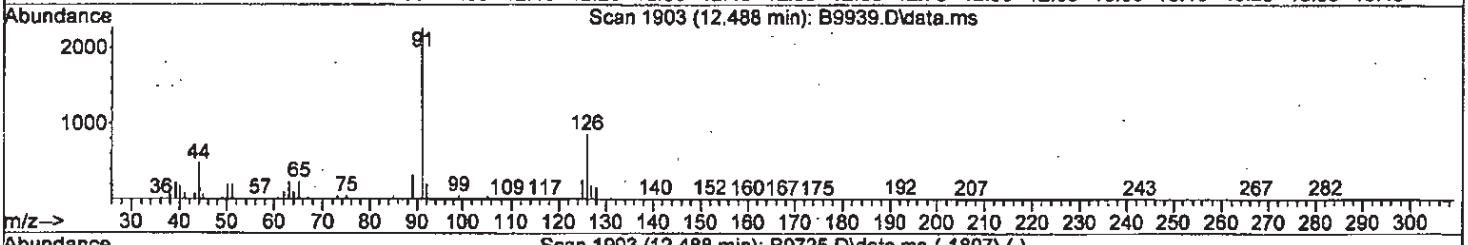
00304

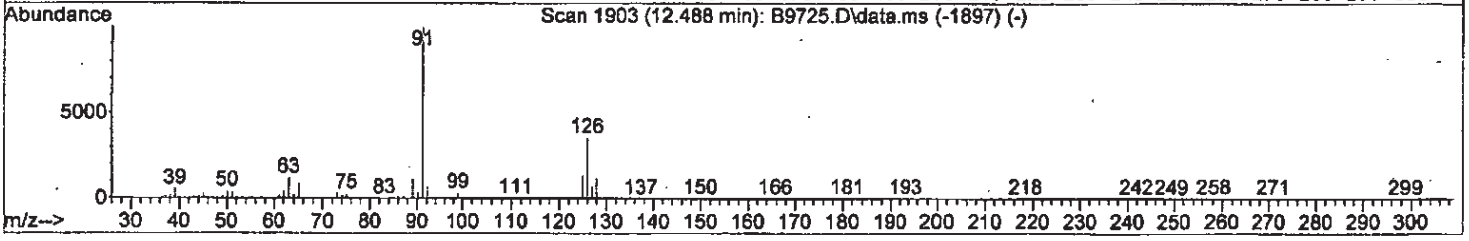
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(99) 4-Chlorotoluene

12.488min (+0.000) 0.50 ug/L

response 2782

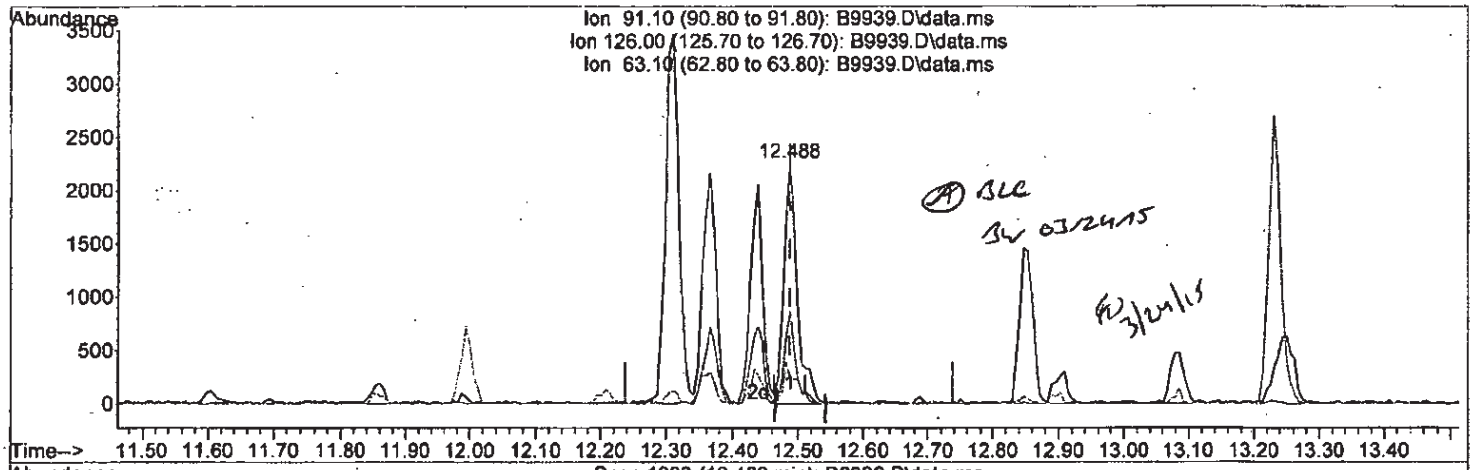
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	38.16
63.10	11.90	10.31
0.00	0.00	0.00

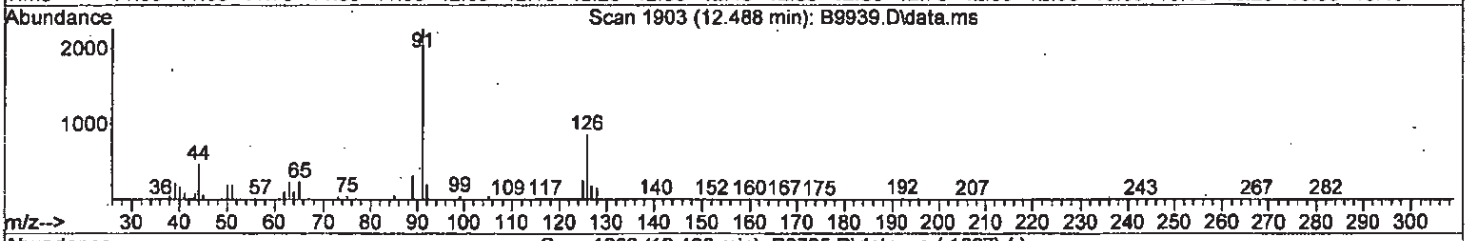
00305

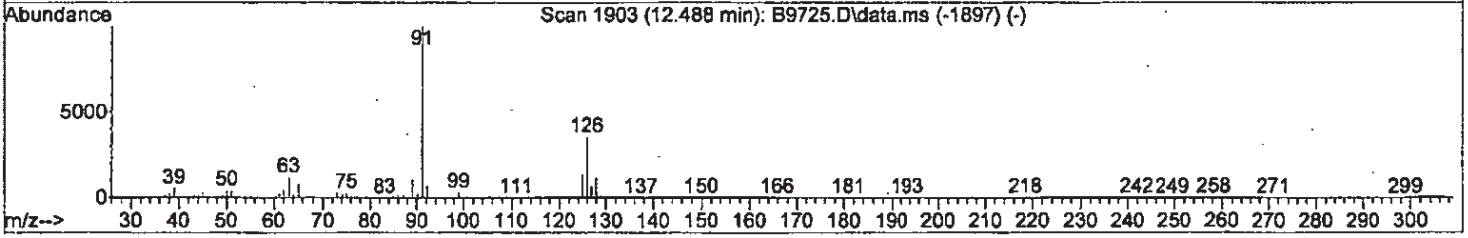
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(99) 4-Chlorotoluene

12.488min (+0.000) 0.58 ug/L m

response 3248

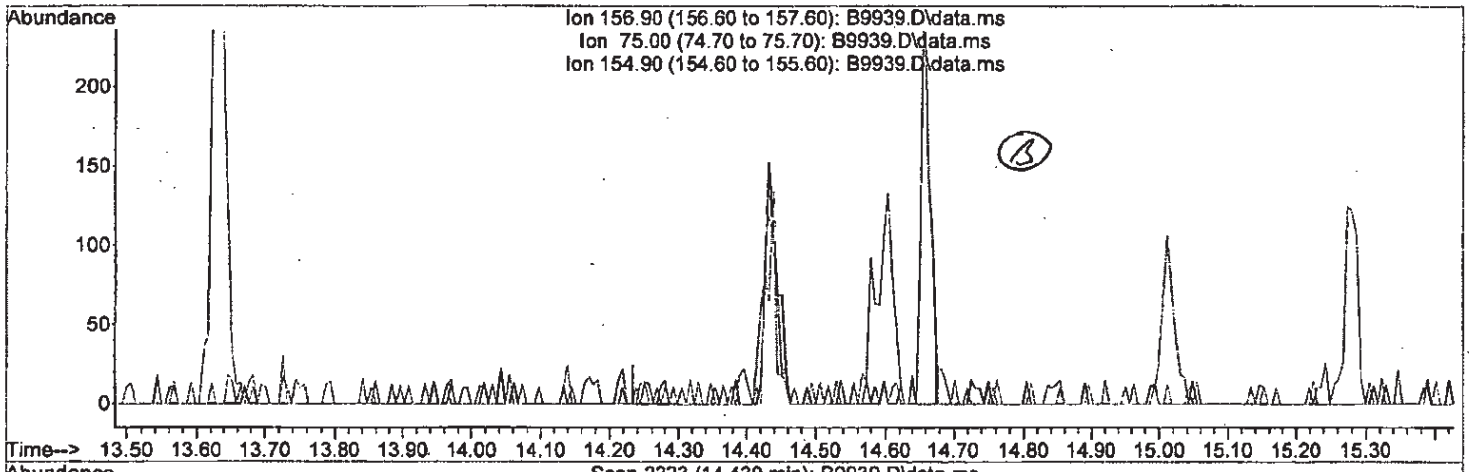
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	38.16
63.10	11.90	10.31
0.00	0.00	0.00

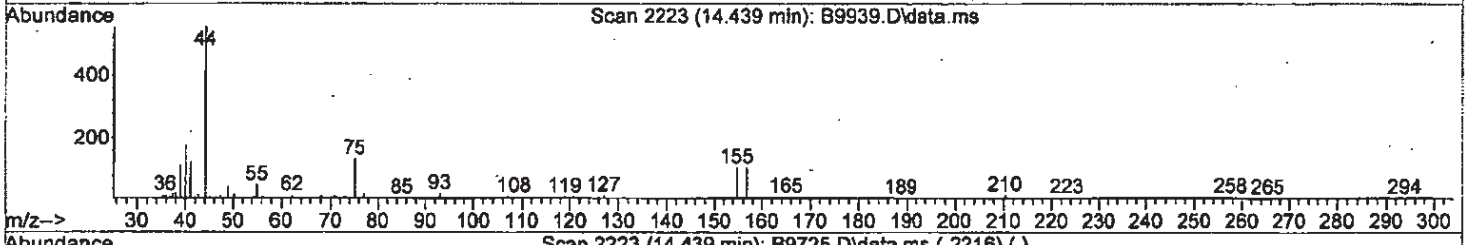
00306

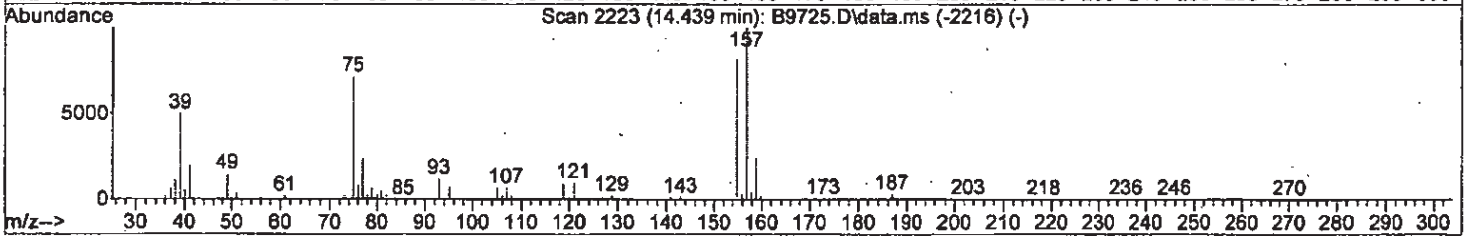
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(113) 1,2-Dibromo-3-chloropropane (P)

14.439min (-14.439) 0.00 ug/L

response 0

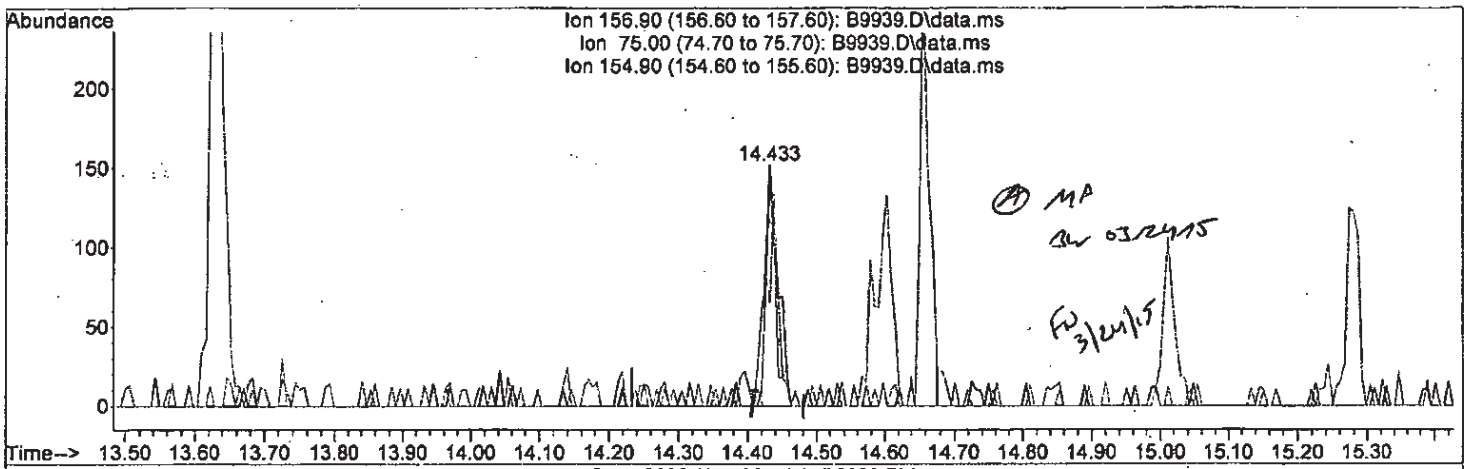
Ion	Exp%	Act%
156.90	100	0.0000
75.00	71.60	0.00#
154.90	81.50	0.00#
0.00	0.00	0.00

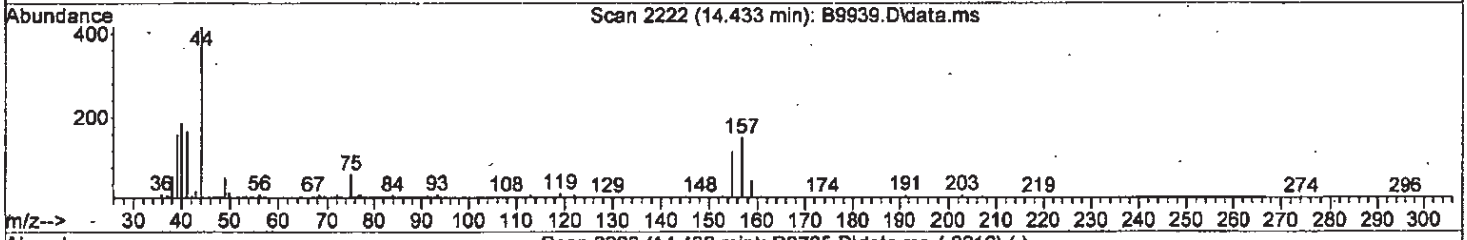
00307

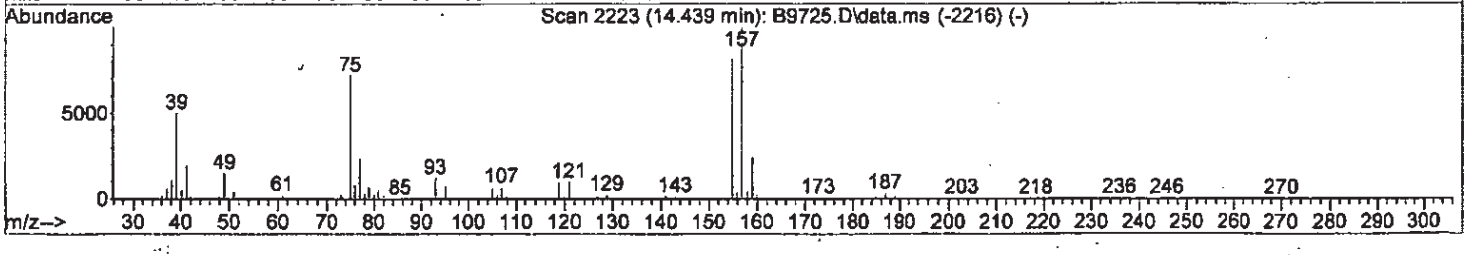
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:29:14 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9939.D\data.ms

(113) 1,2-Dibromo-3-chloropropane (P)

14.433min (-0.006) 0.48 ug/L m

response 187

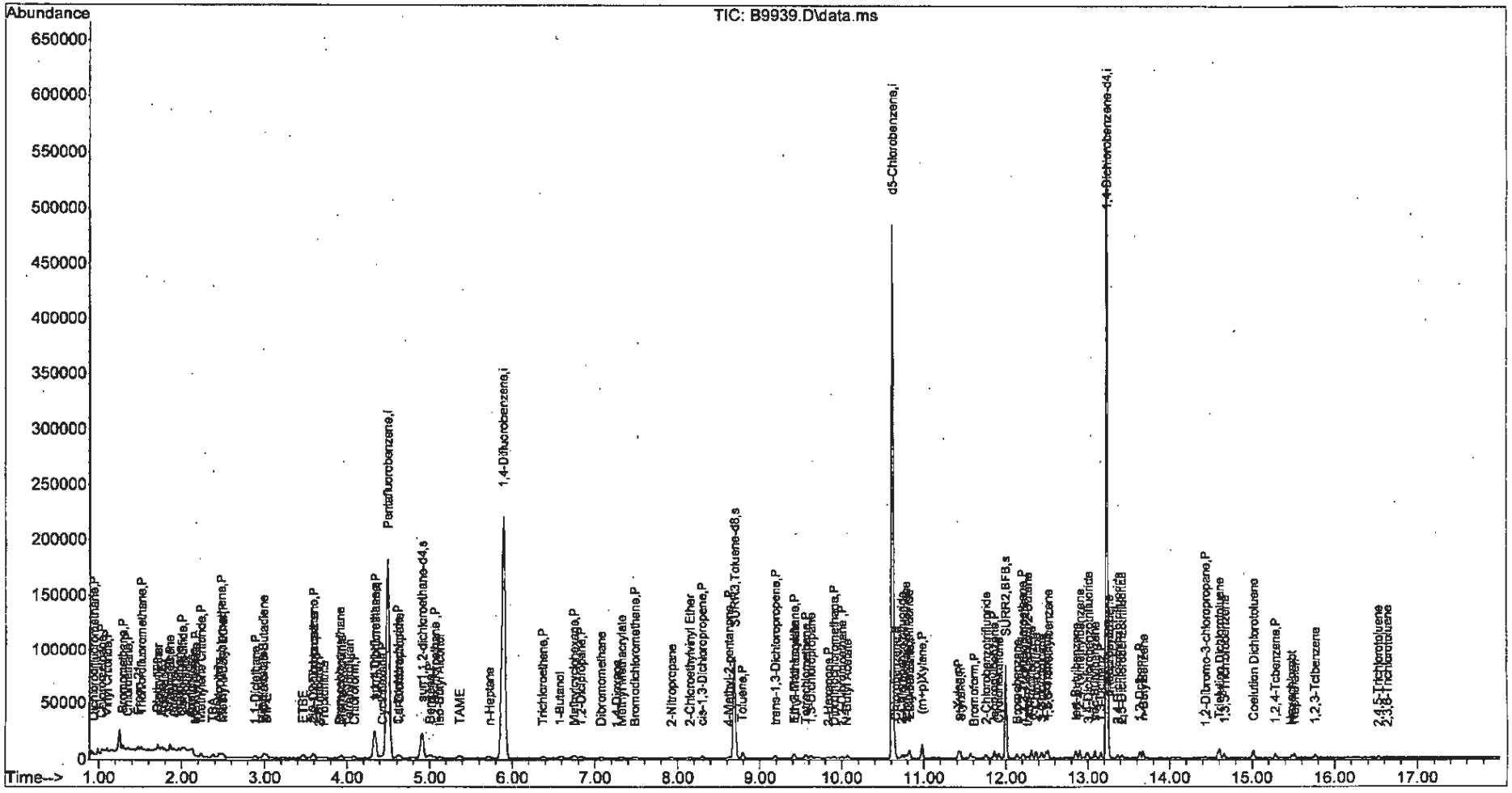
Ion	Exp%	Act%
156.90	100	100
75.00	71.60	42.76#
154.90	81.50	77.63
0.00	0.00	0.00

00308

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9939.D
Acq On : 20 Mar 2015 4:11 pm
Operator : B WOJTASIEWICZ
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 23 06:42:25 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:50:22 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

BW 03/24/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.496	168	164297	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.892	114	266951	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.617	117	229754	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	109708	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.337	113	16152	9.56	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 19.12%#			
48) surr1,1,2-dichloroetha...	4.904	65	21332	11.88	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 23.76%#			
65) SURR3,Toluene-d8	8.690	98	62477	9.98	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 19.96%#			
70) SURR2,BFB	11.995	95	23214	10.47	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 20.94%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.936	85	1793	0.98	ug/L	92
4) Chloromethane	1.033	50	2019	0.98	ug/L	96
5) Vinyl Chloride	1.100	62	1995	0.82	ug/L	84
6) Bromomethane	1.289	94	1403	0.78	ug/L	97
7) Chloroethane	1.350	64	1325	0.89	ug/L	88
8) Freon 21	1.478	67	3506	0.96	ug/L	93
9) Trichlorofluoromethane	1.515	101	2749	0.99	ug/L	97
10) Diethyl Ether	1.710	59	1693	0.99	ug/L	82
11) Freon 123a	1.710	67	2190m	0.95	ug/L	
12) Freon 123	1.759	83	2619	0.94	ug/L	86
13) Acrolein	1.789	56	2135	4.35	ug/L	99
14) 1,1-Diclethene	1.862	96	1818	0.97	ug/L #	85
15) Freon 113	1.868	101	1549	0.95	ug/L	85
16) Acetone	1.905	43	1382	1.50	ug/L	78
17) 2-Propanol	2.039	45	4334	28.72	ug/L	79
18) Iodomethane	1.966	142	1800	1.04	ug/L	89
19) Carbon Disulfide	2.009	76	4634	1.01	ug/L	95
20) Acetonitrile	2.118	40	791m	4.35	ug/L	
21) Allyl Chloride	2.137	76	834	0.83	ug/L #	78
22) Methyl Acetate	2.167	43	1804	1.05	ug/L	91
23) Methylene Chloride	2.234	84	2114	1.13	ug/L	92
24) TBA	2.387	59	6052	39.68	ug/L	83
25) Acrylonitrile	2.454	53	4199	5.05	ug/L	100
26) Methyl-t-Butyl Ether	2.502	73	5740	1.33	ug/L	97
27) trans-1,2-Dichloroethene	2.478	96	1949	1.16	ug/L	85
28) 1,1-Diclethane	2.899	63	3097	1.10	ug/L	95
29) Vinyl Acetate	2.978	86	397m	1.13	ug/L	
30) DIPE	3.027	45	5309	1.25	ug/L	96
31) 2-Chloro-1,3-Butadiene	2.996	53	2872	1.17	ug/L	99
32) ETBE	3.472	59	5491	1.48	ug/L	99
33) 2,2-Dichloropropane	3.588	77	2499	1.66	ug/L	99
34) cis-1,2-Dichloroethene	3.594	96	2017	1.02	ug/L	94
35) 2-Butanone	3.667	43	1479	1.63	ug/L	83
36) Propionitrile	3.716	54	1792	5.75	ug/L	99

00310

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:50:22 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	3.917	130	1190	0.97	ug/L		90
38) Methacrylonitrile	3.935	67	1095	1.19	ug/L	#	73
39) Tetrahydrofuran	4.033	42	780m	1.46	ug/L		
40) Chloroform	4.081	83	3325	1.12	ug/L		99
41) 1,1,1-Trichloroethane	4.337	97	2733	1.27	ug/L		90
42) TAME	5.368	73	5559m	1.63	ug/L		
44) Cyclohexane	4.417	41	1474m	1.10	ug/L		
46) Carbontetrachloride	4.618	121	605	1.20	ug/L		92
47) 1,1-Dichloropropene	4.636	75	2191	1.00	ug/L		96
49) Benzene	5.008	78	7287	1.00	ug/L		93
50) 1,2-Dichloroethane	5.051	62	2786	1.15	ug/L		95
51) Iso-Butyl Alcohol	5.130	43	2448	35.06	ug/L		88
52) n-Heptane	5.721	43	1994	1.37	ug/L		91
53) 1-Butanol	6.587	56	3236m	65.11	ug/L		
54) Trichloroethene	6.368	130	1853	0.95	ug/L		92
55) Methylcyclohexane	6.752	55	2207	1.12	ug/L	#	73
56) 1,2-Diclpropane	6.831	63	1892m	1.07	ug/L		
57) Dibromomethane	7.056	93	1217	0.97	ug/L	#	61
58) 1,4-Dioxane	7.258	88	690m	22.00	ug/L		
59) Methyl Methacrylate	7.319	69	1382	1.02	ug/L	#	70
60) Bromodichloromethane	7.477	83	2303	1.07	ug/L		92
61) 2-Nitropropane	7.928	41	1170	3.00	ug/L		95
62) 2-Chloroethylvinyl Ether	8.154	63	1271	1.20	ug/L		86
63) cis-1,3-Dichloropropene	8.300	75	2719	1.18	ug/L		93
64) 4-Methyl-2-pentanone	8.629	43	2235	1.33	ug/L		91
66) Toluene	8.794	91	7610	0.98	ug/L		99
67) trans-1,3-Dichloropropene	9.184	75	2459	1.30	ug/L		89
68) Ethyl Methacrylate	9.422	69	2679	1.20	ug/L		93
69) 1,1,2-Trichloroethane	9.416	97	1866	1.00	ug/L		84
72) Tetrachloroethene	9.556	164	1415	1.02	ug/L		89
73) 2-Hexanone	9.830	43	1697	1.44	ug/L		97
74) 1,3-Dichloropropane	9.623	76	2986	1.02	ug/L		87
75) Dibromochloromethane	9.903	129	1530m	0.93	ug/L		
76) N-Butyl Acetate	10.068	43	3115	1.38	ug/L		92
77) 1,2-Dibromoethane	10.001	107	1784	0.97	ug/L		85
78) 3-Chlorobenzotrifluoride	10.739	180	2092	2.58	ug/L	#	100
79) Chlorobenzene	10.653	112	4977	0.99	ug/L		99
80) 4-Chlorobenzotrifluoride	10.806	180	2035	2.74	ug/L	#	100
81) 1,1,1,2-Tetrachloroethane	10.775	131	1398	0.93	ug/L		88
82) Ethylbenzene	10.824	106	2735	1.06	ug/L	#	79
83) (m+p)Xylene	10.976	106	6207	2.06	ug/L		91
84) o-Xylene	11.415	106	3053	1.03	ug/L		93
85) Styrene	11.440	104	4754	0.93	ug/L		96
86) Bromoform	11.604	173	1035	0.85	ug/L		79
87) 2-Chlorobenzotrifluoride	11.757	180	2198	3.23	ug/L	#	100
88) Isopropylbenzene	11.860	105	7610	1.04	ug/L		94
89) Cyclohexanone	11.915	55	3469	11.09	ug/L		93
90) trans-1,4-Dichloro-2-B...	12.263	53	657m	1.16	ug/L		
92) 1,1,2,2-Tetrachloroethane	12.202	83	2515	1.00	ug/L		90
93) Bromobenzene	12.129	156	2029	1.08	ug/L	#	86
95) 1,2,3-Trichloropropane	12.220	110	777	1.05	ug/L		91

00311

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:50:22 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

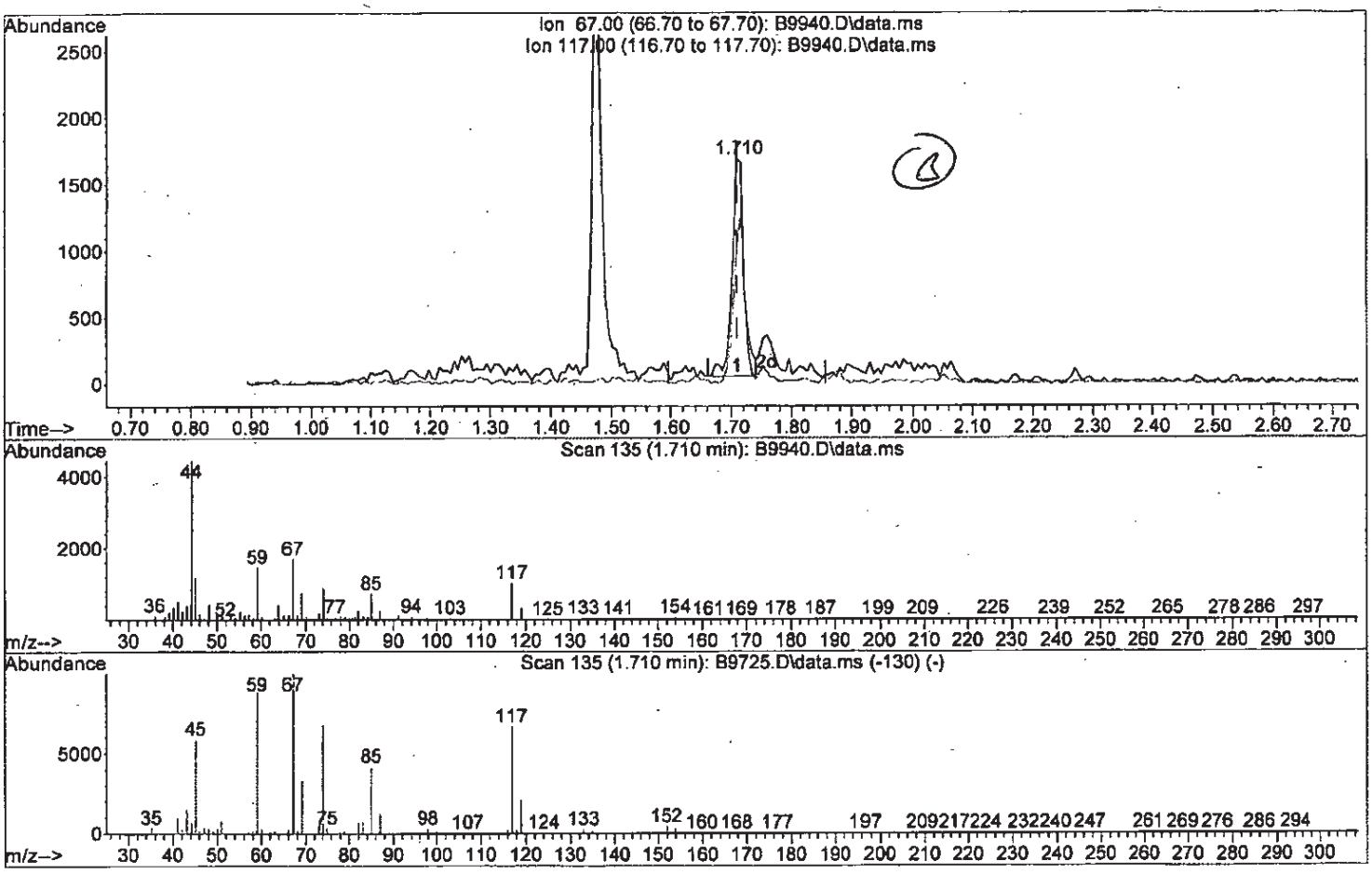
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
96)	n-Propylbenzene	12.312	91	8678	1.07	ug/L		91
97)	2-Chlorotoluene	12.360	91	5734	1.22	ug/L		92
98)	3-Chlorotoluene	12.440	91	5641m	9.11	ug/L		
99)	4-Chlorotoluene	12.488	91	6548	1.21	ug/L		96
100)	1,3,5-Trimethylbenzene	12.519	105	5987	1.12	ug/L		96
101)	tert-Butylbenzene	12.854	119	5318	1.15	ug/L		98
102)	1,2,4-Trimethylbenzene	12.903	105	6141	1.13	ug/L		86
103)	3,4-Dichlorobenzotrifl...	13.007	214	1542	2.49	ug/L	#	100
104)	sec-Butylbenzene	13.086	105	7893	1.13	ug/L		99
105)	p-Isopropyltoluene	13.250	119	6359	1.11	ug/L		95
106)	1,3-Dclbenz	13.159	146	3746	1.08	ug/L		93
107)	1,4-Dclbenz	13.256	146	3877	1.05	ug/L		89
108)	2,4-Dichlorobenzotrifl...	13.360	214	1376	2.22	ug/L	#	100
109)	2,5-Dichlorobenzotrifl...	13.421	214	1648	2.66	ug/L	#	100
111)	n-Butylbenzene	13.677	91	5817	1.08	ug/L		95
112)	1,2-Dclbenz	13.634	146	3511	1.01	ug/L		92
113)	1,2-Dibromo-3-chloropr...	14.439	157	425	1.12	ug/L	#	77
114)	Trielution Dichlorotol...	14.604	125	8814	14.23	ug/L	#	25
115)	1,3,5-Trichlorobenzene	14.665	180	2225	3.59	ug/L	#	100
116)	Coelution Dichlorotoluene	15.012	125	6206	10.02	ug/L	#	100
117)	1,2,4-Tcbenzene	15.280	180	2004	1.09	ug/L		91
118)	Hexachlorobt	15.482	225	765	1.05	ug/L		85
119)	Naphthalen	15.512	128	5134	1.20	ug/L		97
120)	1,2,3-Tclbenzene	15.762	180	1720	1.15	ug/L		93
121)	2,4,5-Trichlorotoluene	16.530	159	742	1.20	ug/L	#	100
122)	2,3,6-Trichlorotoluene	16.634	159	755	1.22	ug/L	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(11) Freon 123a

1.710min (+0.000) 0.98 ug/L

response 2262

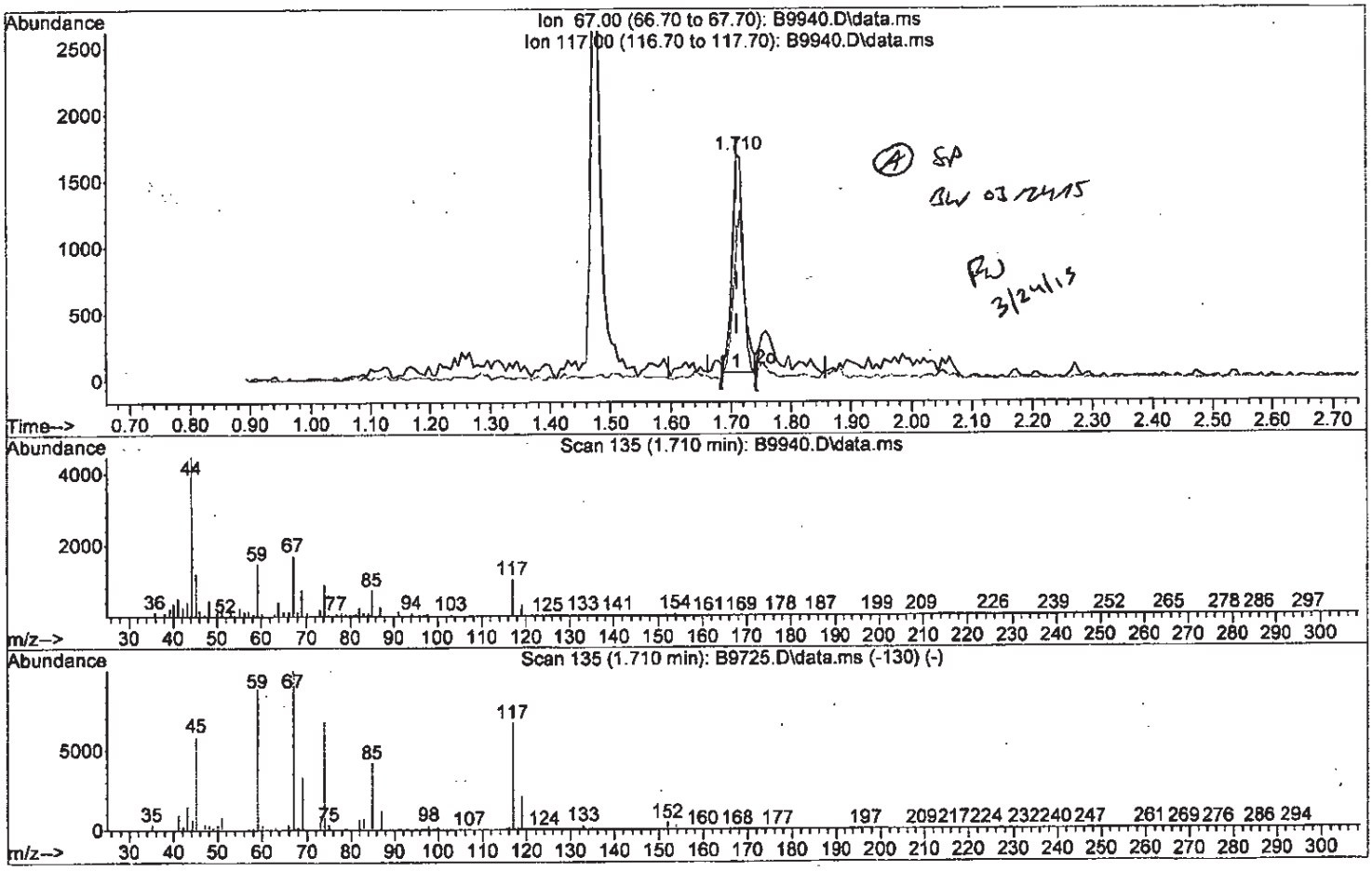
Ion	Exp%	Act%
67.00	100	100
117.00	67.10	60.65
0.00	0.00	0.00
0.00	0.00	0.00

00313

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(11) Freon 123a

1.710min (+0.000) 0.95 ug/L m

response 2190

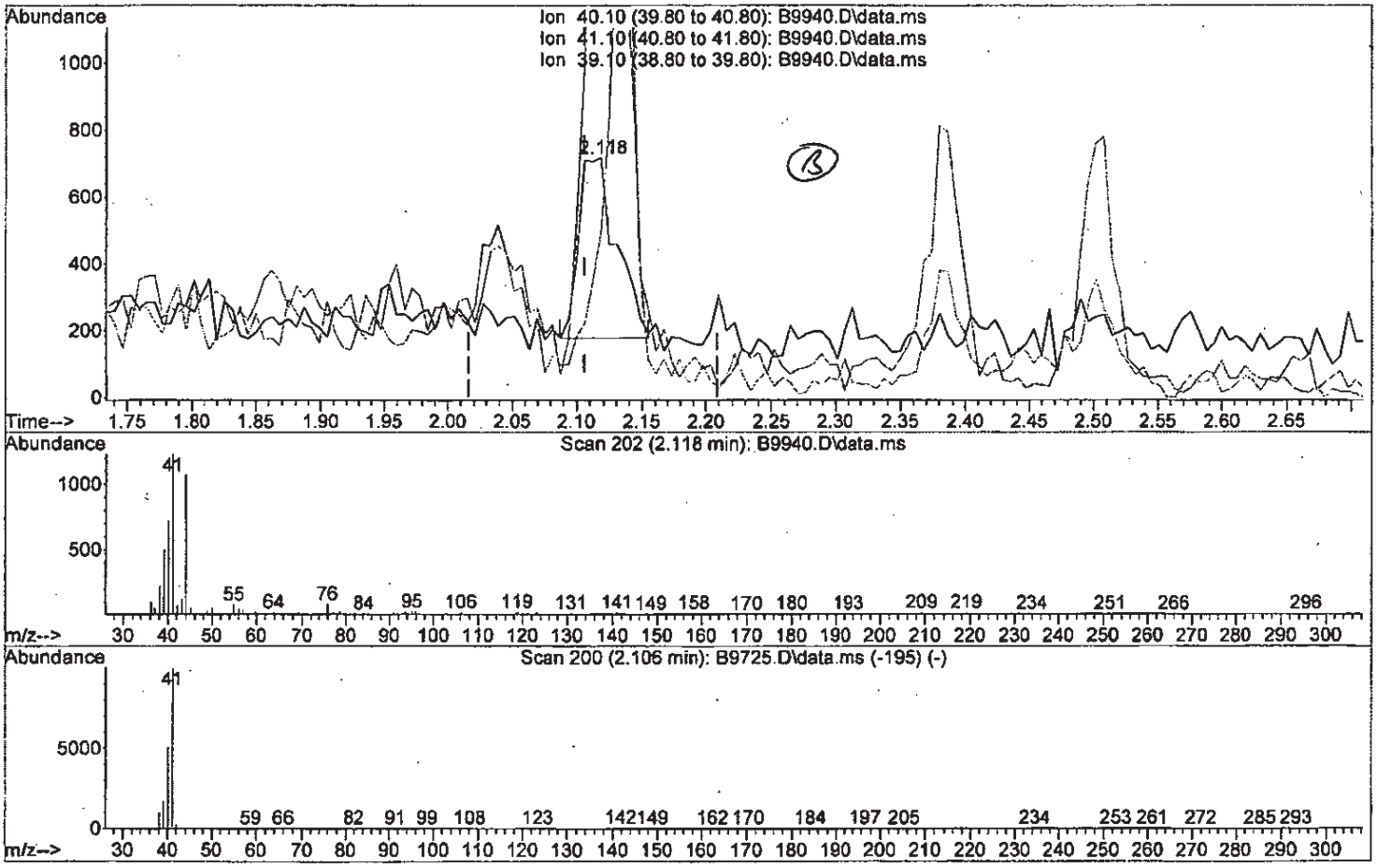
Ion	Exp%	Act%
67.00	100	100
117.00	67.10	60.65
0.00	0.00	0.00
0.00	0.00	0.00

00314

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(20) Acetonitrile

2.118min (+0.012) 5.86 ug/L

response 1066

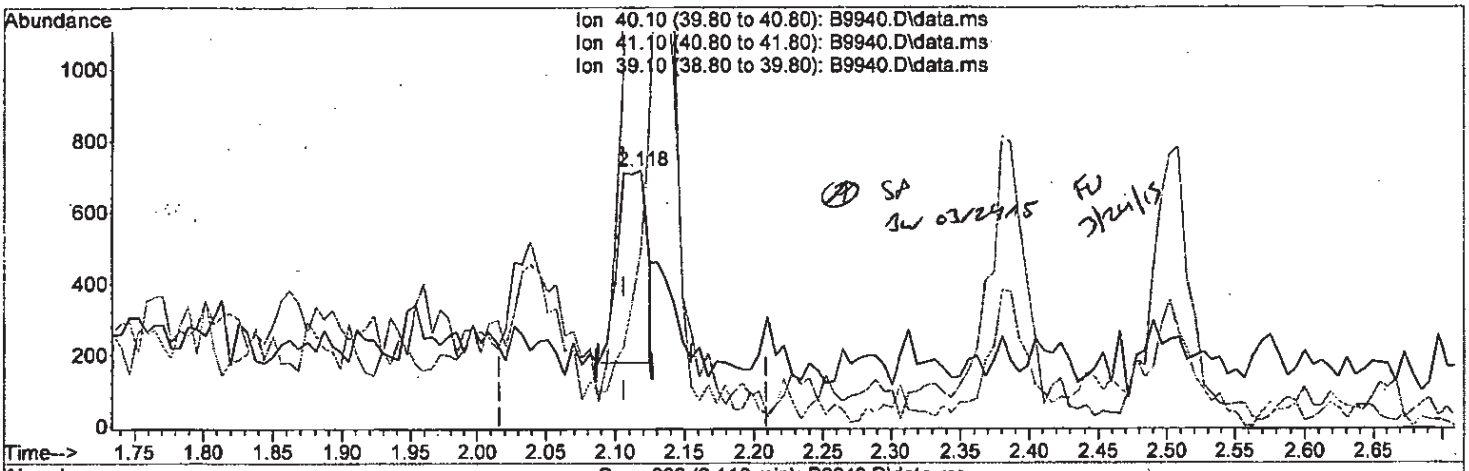
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	171.23#
39.10	34.40	69.41#
0.00	0.00	0.00

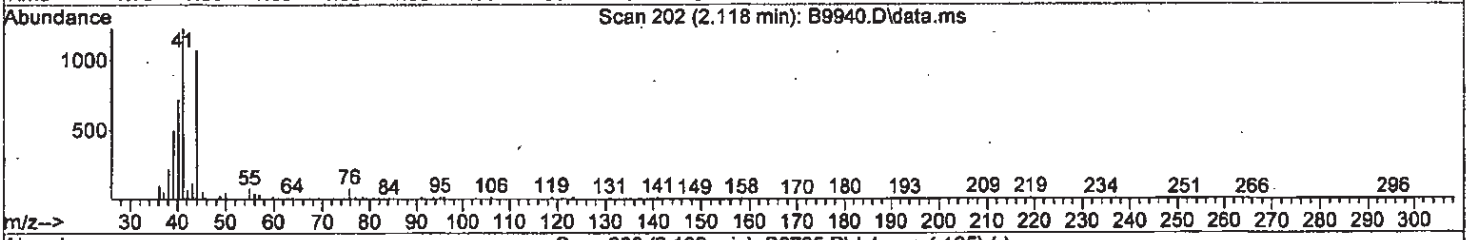
00315

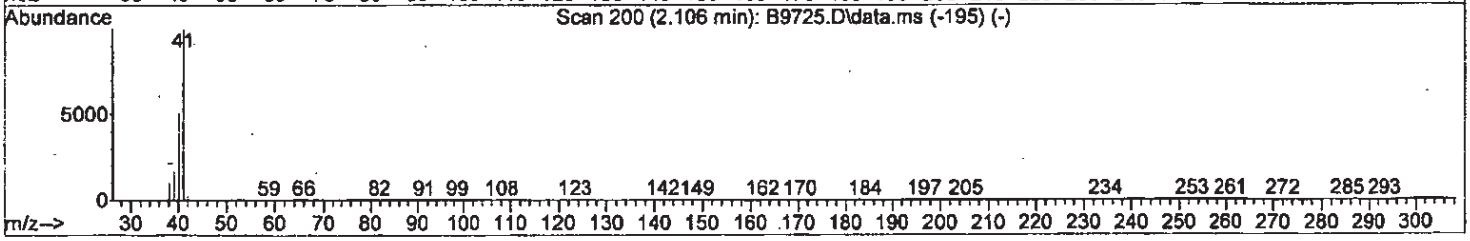
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9940.D\data.ms

(20) Acetonitrile

2.118min (+0.012) 4.35 ug/L m

response 791

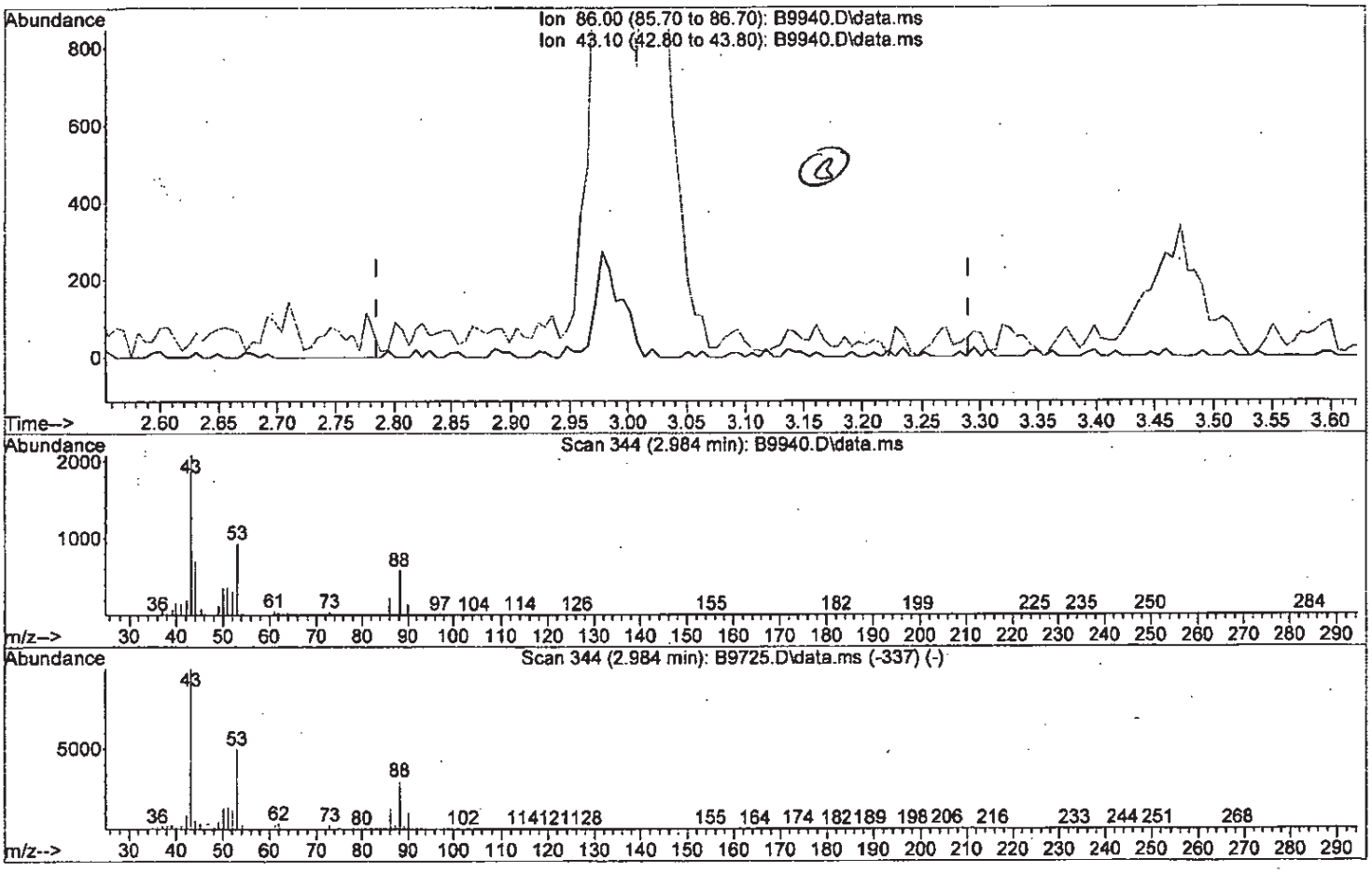
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	171.23#
39.10	34.40	69.41#
0.00	0.00	0.00

00316

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(29) Vinyl Acetate

2.984min (-2.984) 0.00 ug/L

response 0

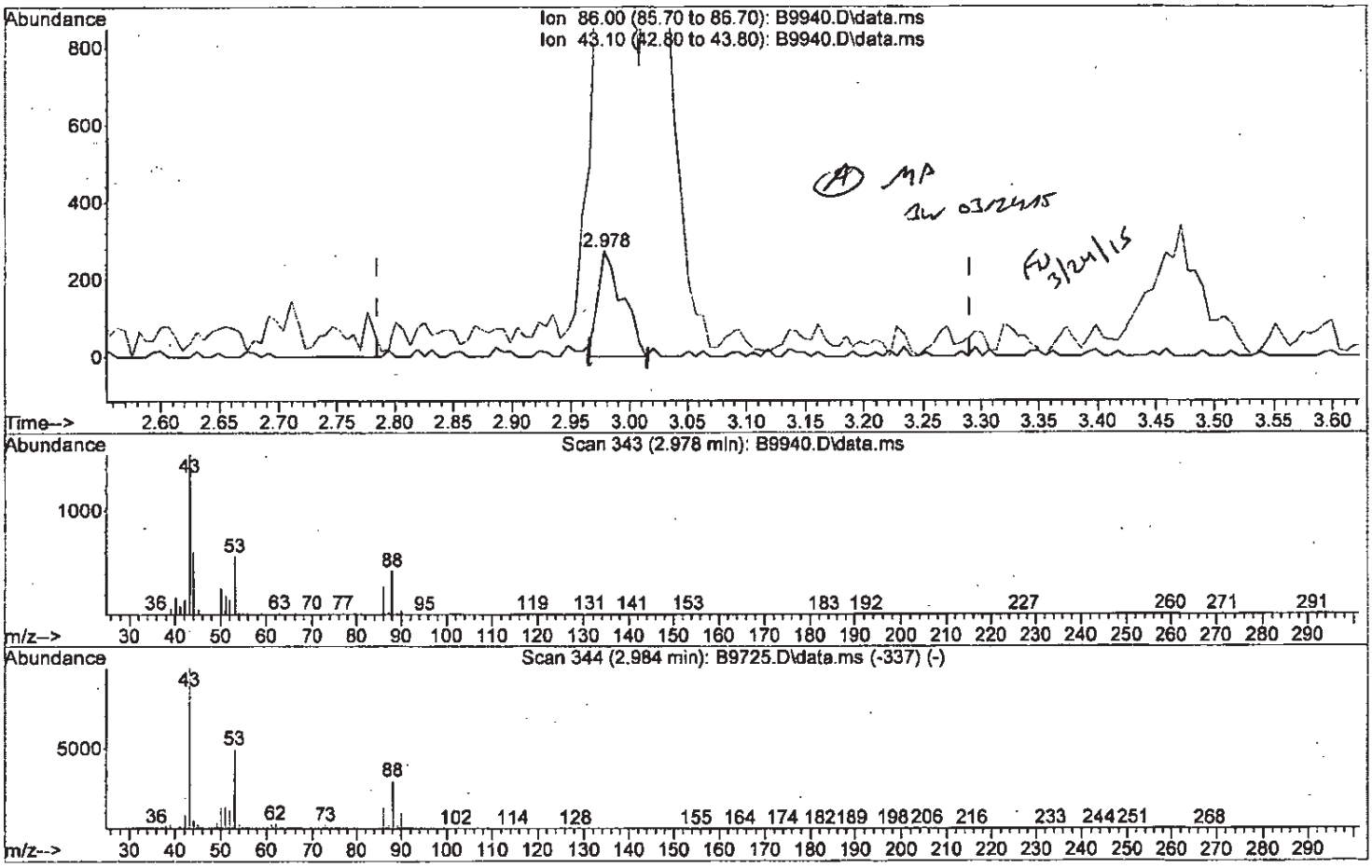
Ion	Exp%	Act%
86.00	100	0.0000
43.10	767.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

00317

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(29) Vinyl Acetate

2.978min (-0.006) 1.13 ug/L m

response 397

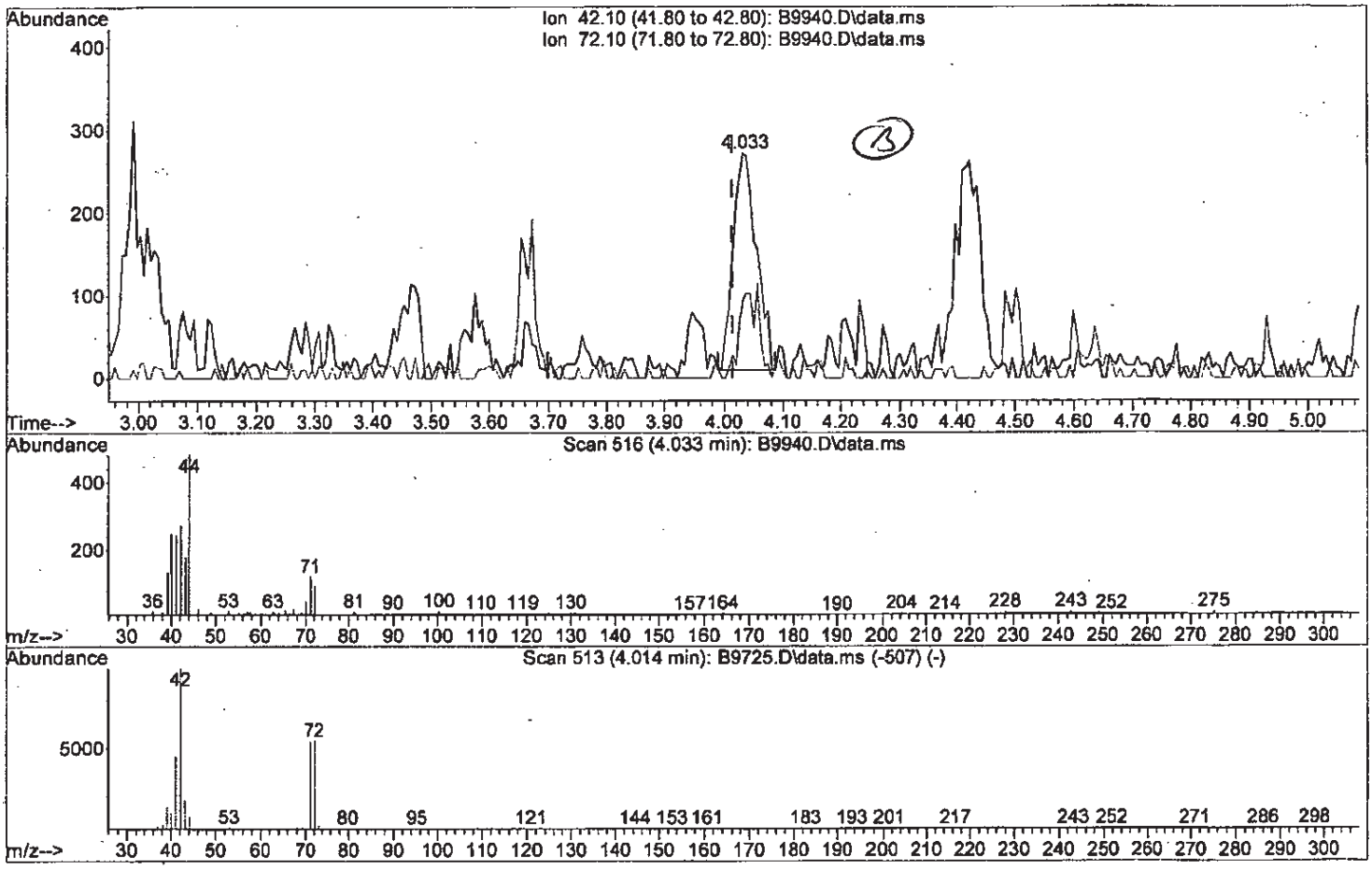
Ion	Exp%	Act%
86.00	100	100
43.10	767.80	562.13#
0.00	0.00	0.00
0.00	0.00	0.00

00318

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(39) Tetrahydrofuran

4.033min (+0.019) 1.35 ug/L

response 721

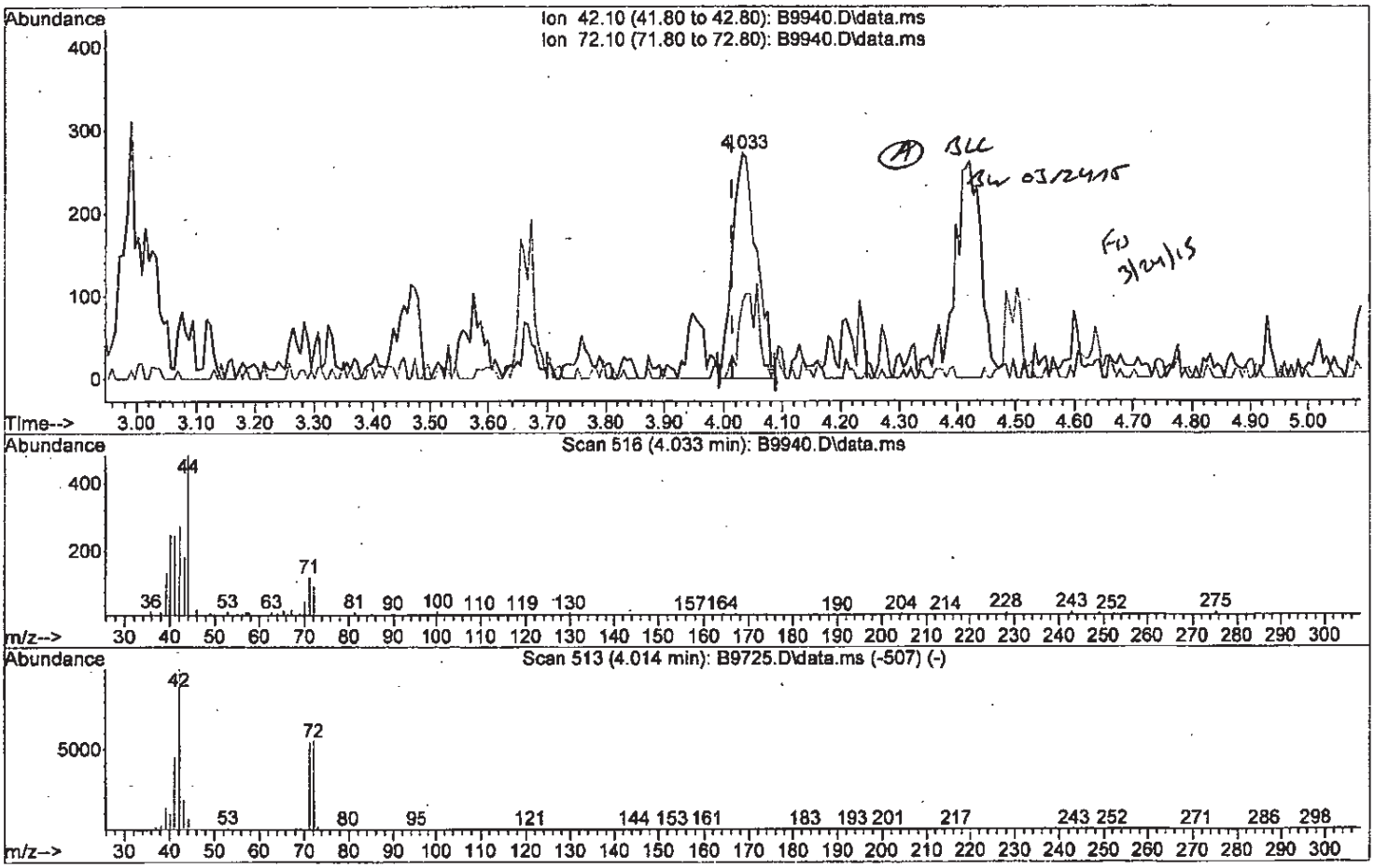
Ion	Exp%	Act%
42.10	100	100
72.10	54.50	34.56
0.00	0.00	0.00
0.00	0.00	0.00

00319

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(39) Tetrahydrofuran

4.033min (+0.019) 1.46 ug/L m

response 780

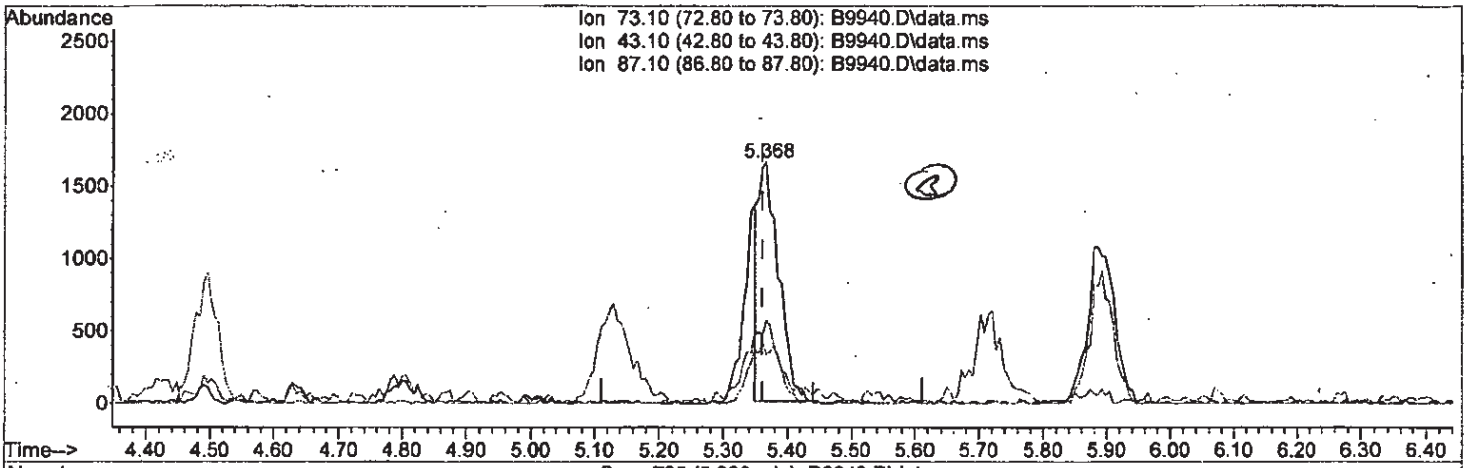
Ion	Exp%	Act%
42.10	100	100
72.10	54.50	34.56
0.00	0.00	0.00
0.00	0.00	0.00

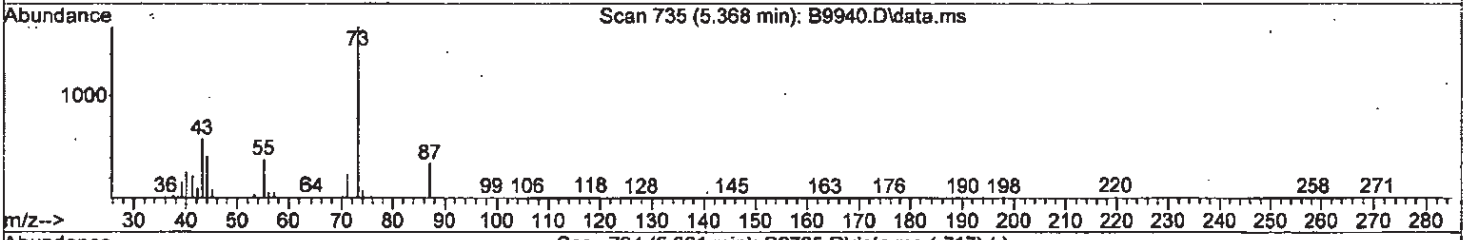
00320

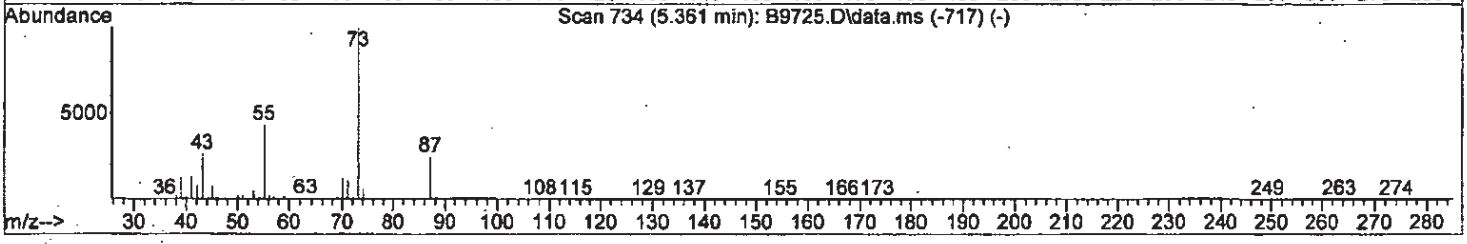
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9940.D\data.ms

(42) TAME

5.368min (+0.006) 1.08 ug/L

response 3667

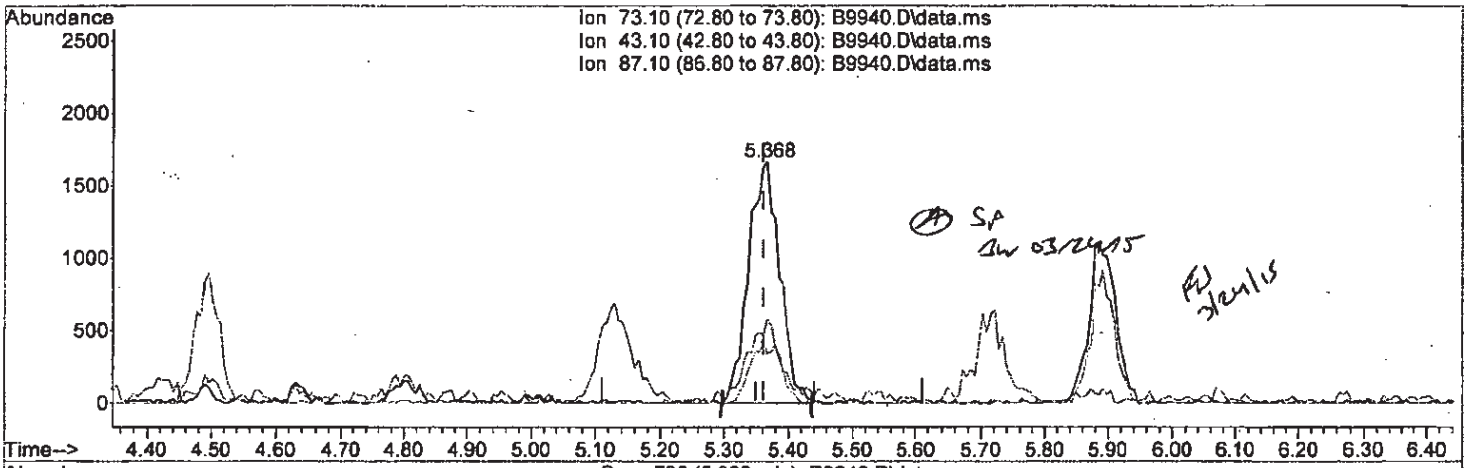
Ion	Exp%	Act%
73.10	100	100
43.10	27.10	34.80
87.10	24.80	20.49
0.00	0.00	0.00

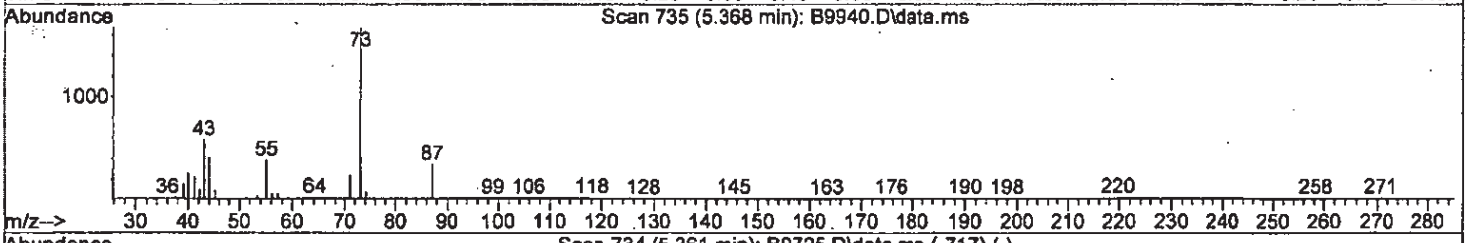
00321

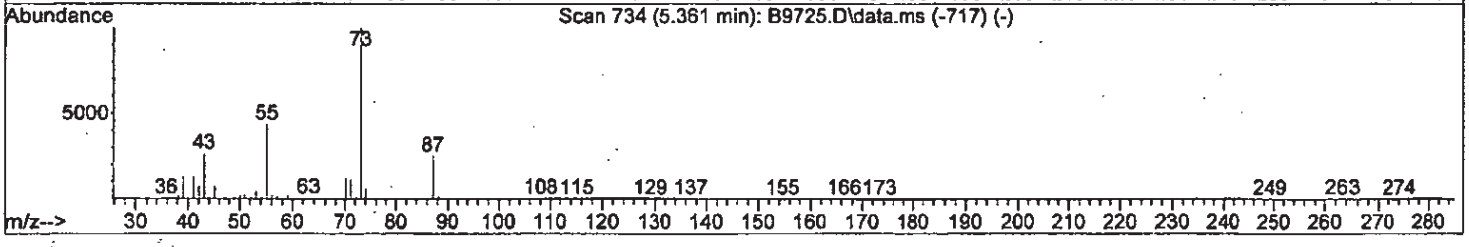
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9940.D\data.ms

(42) TAME

5.368min (+0.006) 1.63 ug/L m

response 5559

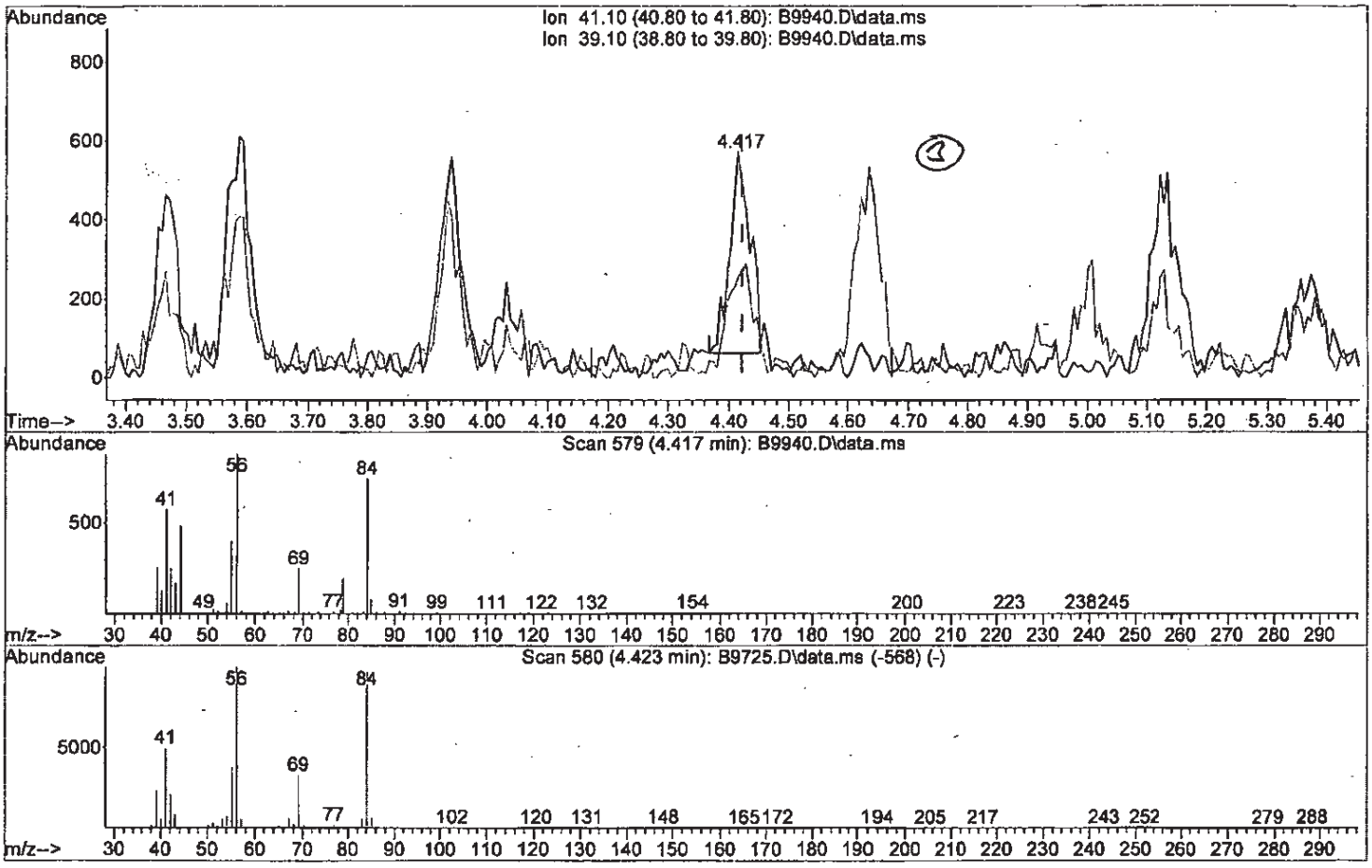
Ion	Exp%	Act%
73.10	100	100
43.10	27.10	34.80
87.10	24.80	20.49
0.00	0.00	0.00

00322

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(44) Cyclohexane (P)

4.417min (-0.006) 0.89 ug/L

response 1192

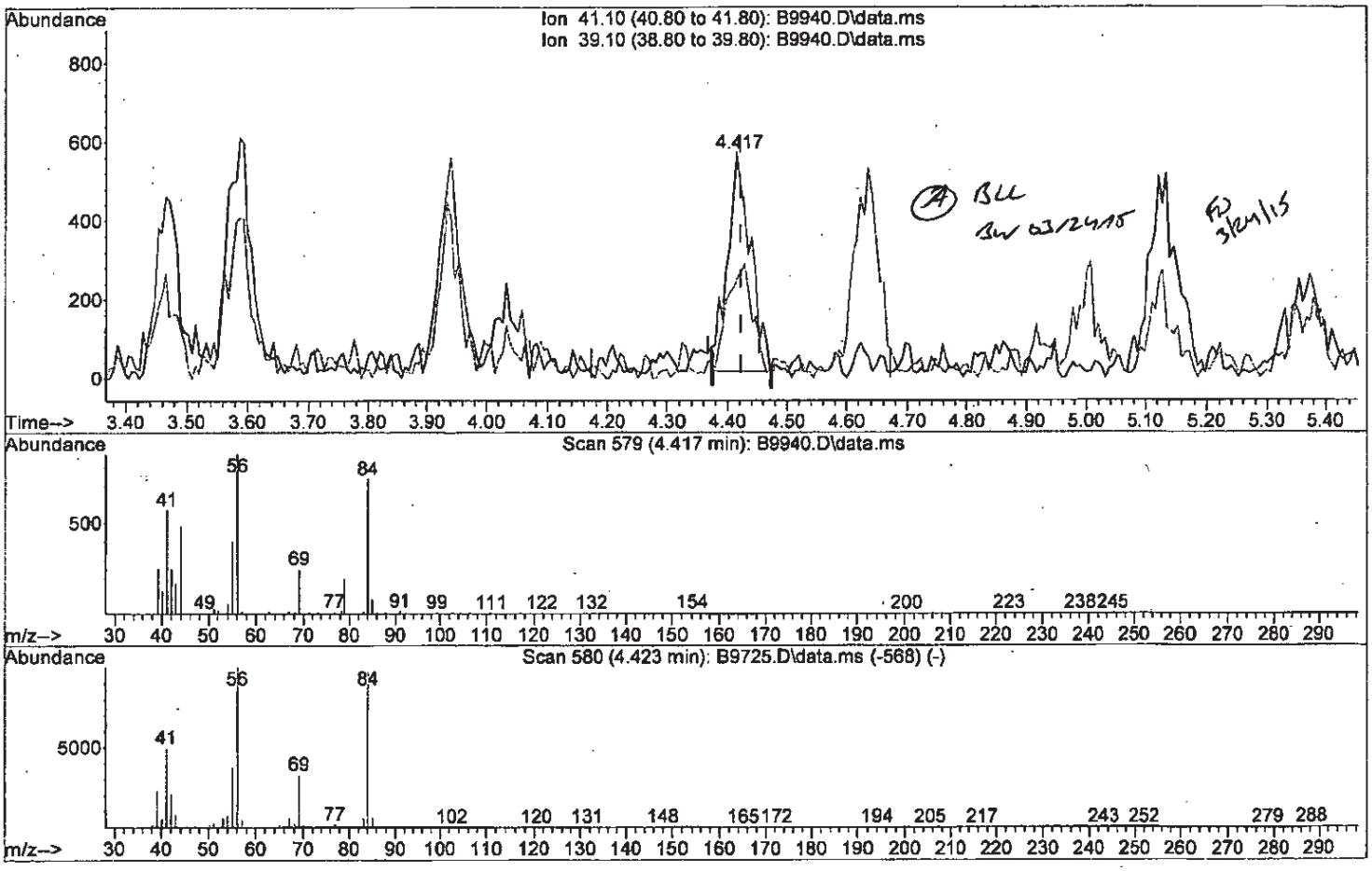
Ion	Exp%	Act%
41.10	100	100
39.10	47.10	44.48
0.00	0.00	0.00
0.00	0.00	0.00

00323

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(44) Cyclohexane (P)

4.417min (-0.006) 1.10 ug/L m

response 1474

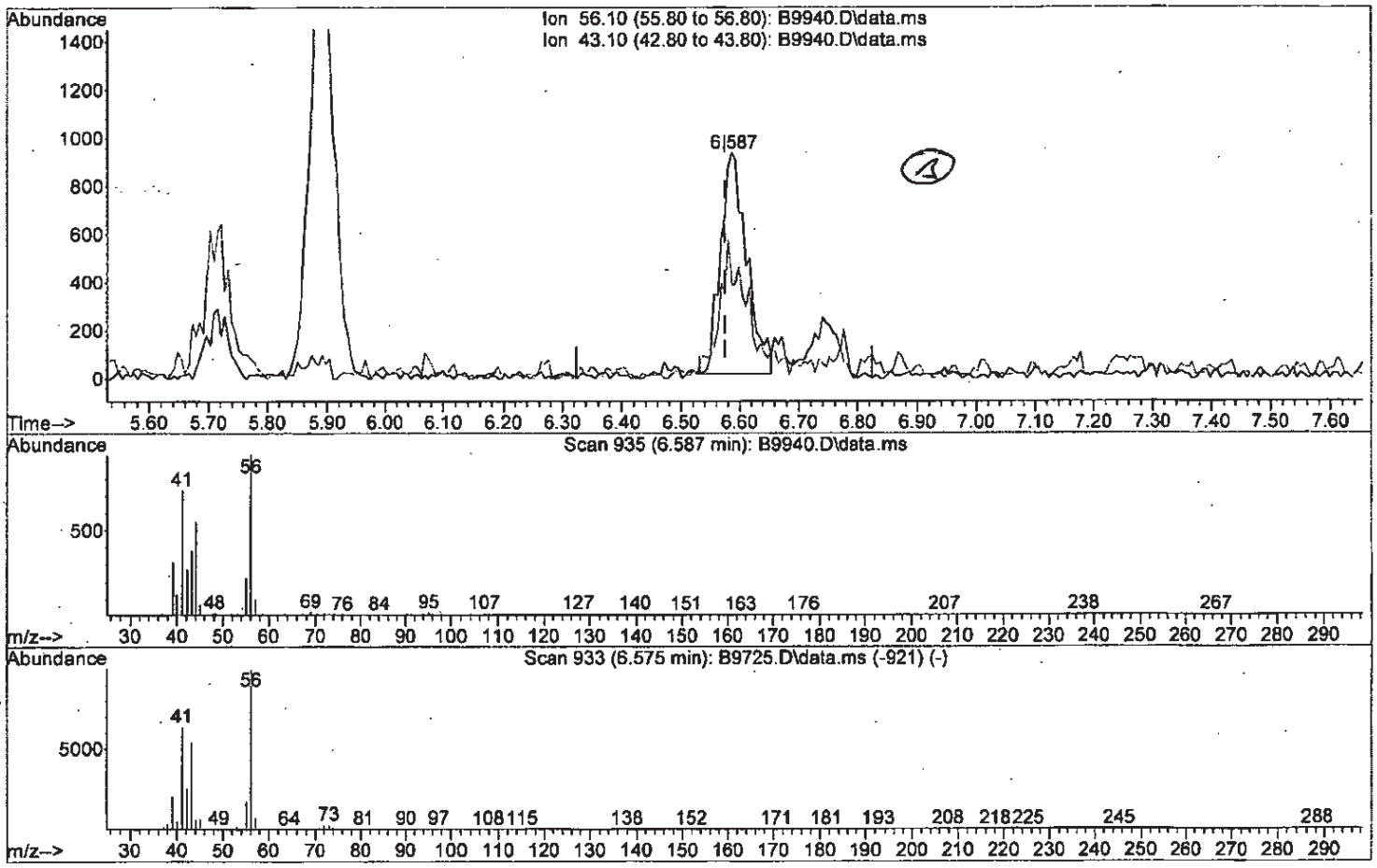
Ion	Exp%	Act%
41.10	100	100
39.10	47.10	44.48
0.00	0.00	0.00
0.00	0.00	0.00

00324

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(53) 1-Butanol

6.587min (+0.012) 57.83 ug/L

response 2874

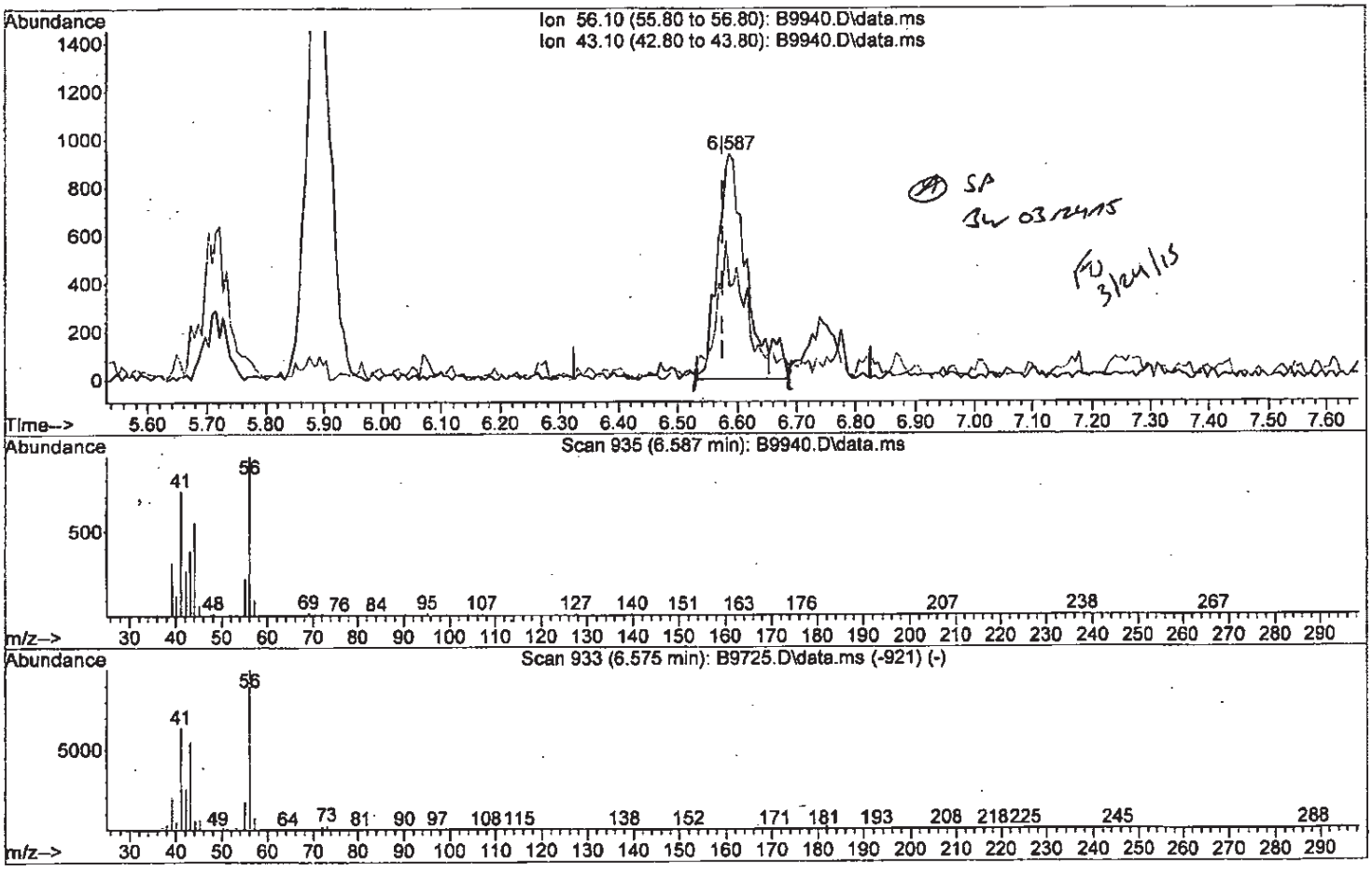
Ion	Exp%	Act%
56.10	100	100
43.10	54.50	41.03
0.00	0.00	0.00
0.00	0.00	0.00

00325

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(53) 1-Butanol

6.587min (+0.012) 65.11 ug/L m

response 3236

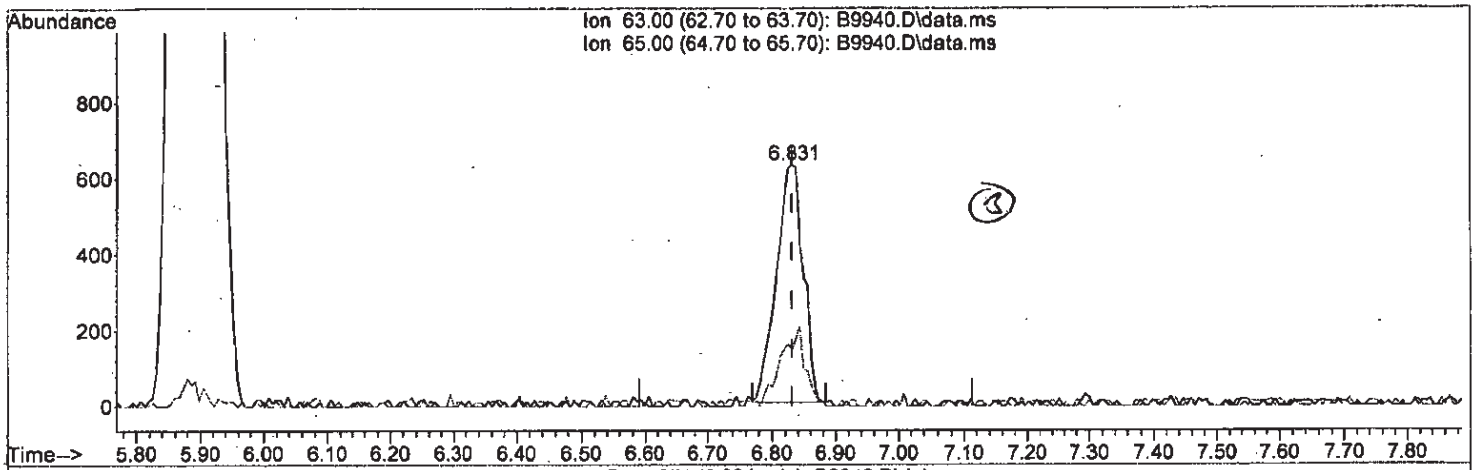
Ion	Exp%	Act%
56.10	100	100
43.10	54.50	41.03
0.00	0.00	0.00
0.00	0.00	0.00

00326

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(56) 1,2-Dicipropane (P)

6.831min (+0.000) 1.03 ug/L

response 1817

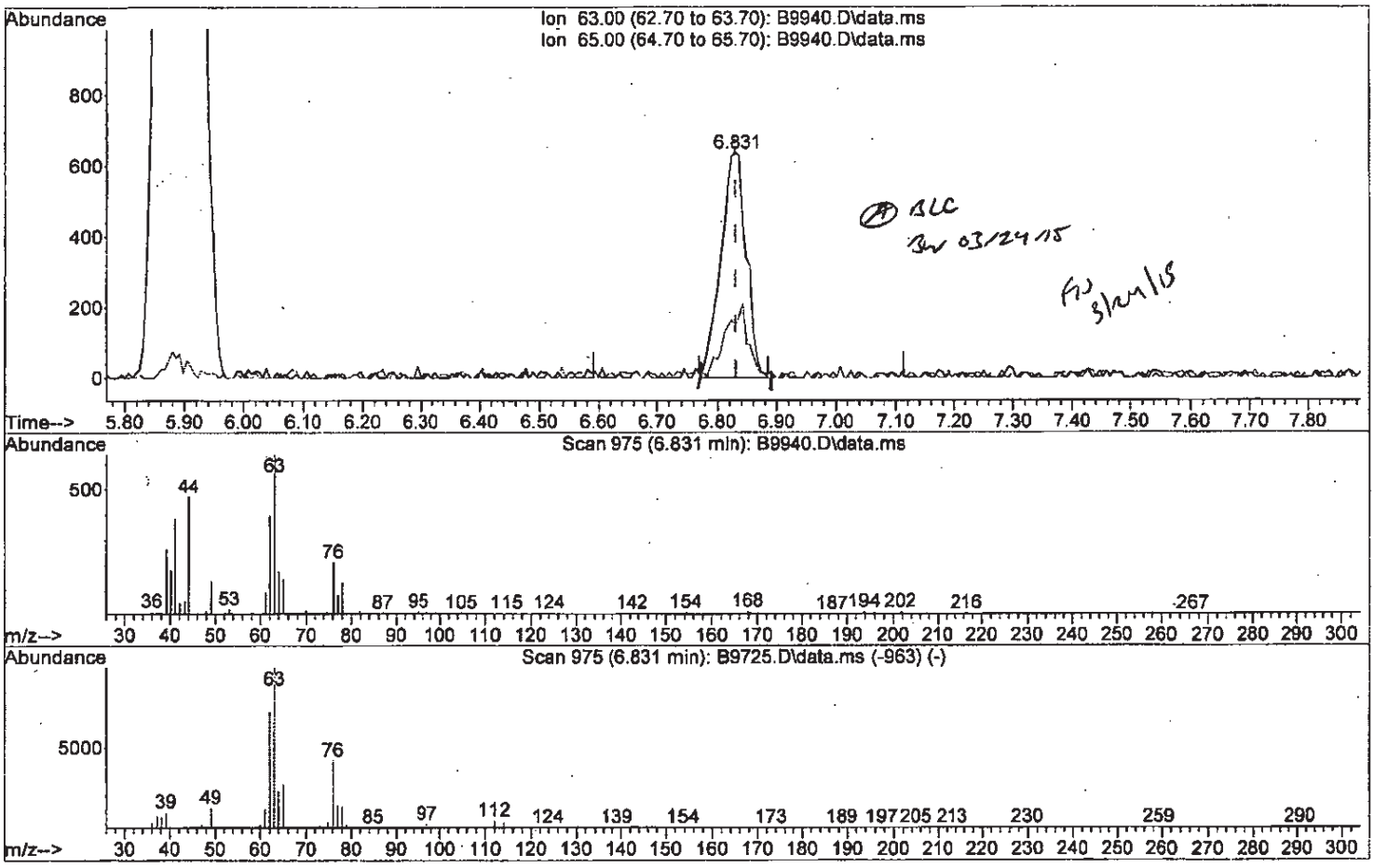
Ion	Exp%	Act%
63.00	100	100
65.00	29.70	23.11
0.00	0.00	0.00
0.00	0.00	0.00

00327

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(56) 1,2-Dichloropane (P)

6.831min (+0.000) 1.07 ug/L m

response 1892

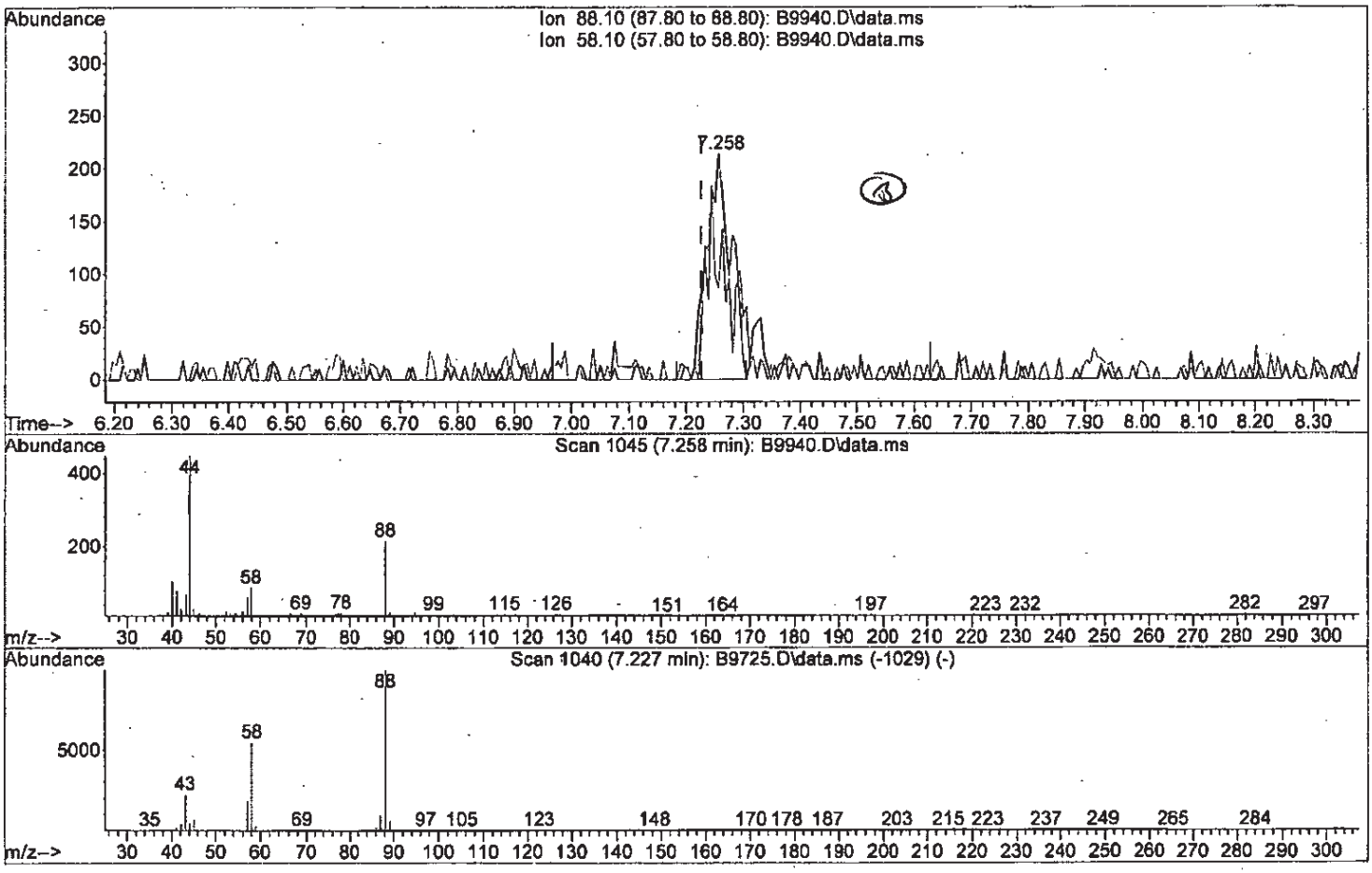
Ion	Exp%	Act%
63.00	100	100
65.00	29.70	23.11
0.00	0.00	0.00
0.00	0.00	0.00

00328

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(58) 1,4-Dioxane

7.258min (+0.031) 19.80 ug/L

response 621

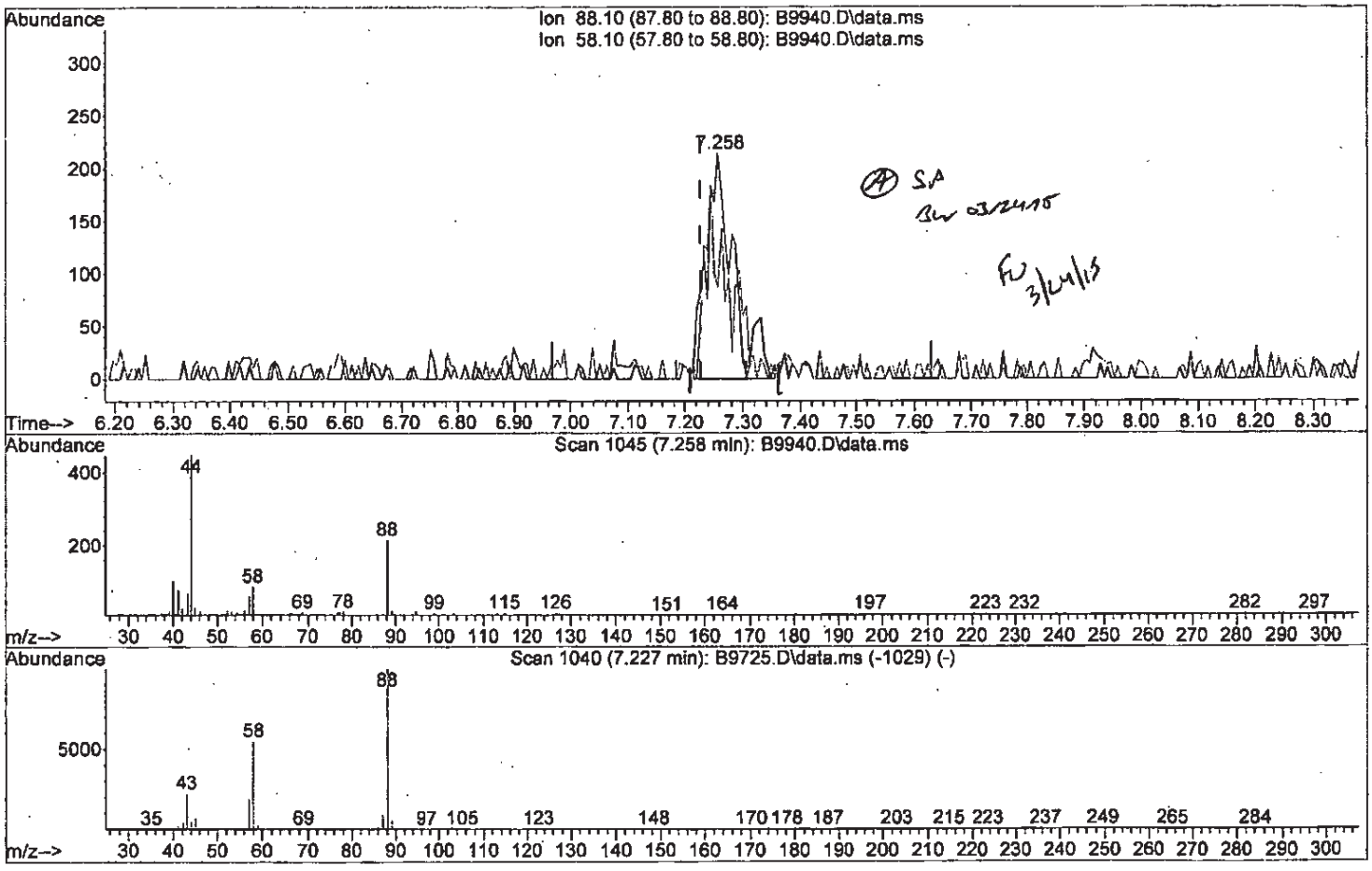
Ion	Exp%	Act%
88.10	100	100
58.10	54.90	40.65
0.00	0.00	0.00
0.00	0.00	0.00

00329

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(58) 1,4-Dioxane

7.258min (+0.031) 22.00 ug/L m

response 690

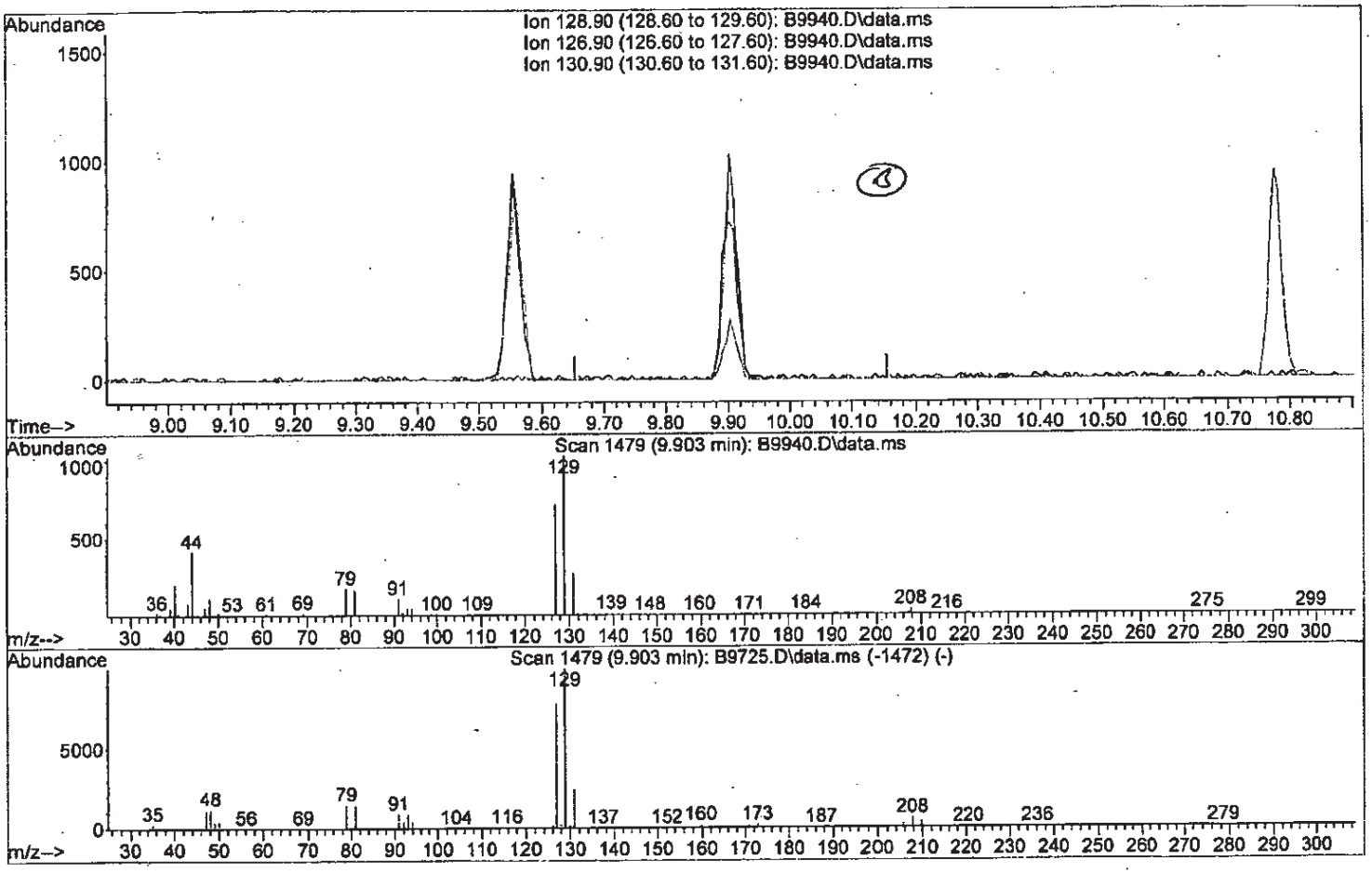
Ion	Exp%	Act%
88.10	100	100
58.10	54.90	40.65
0.00	0.00	0.00
0.00	0.00	0.00

00330

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(75) Dibromochloromethane (P)

9.903min (-9.903) 0.00 ug/L

response 0

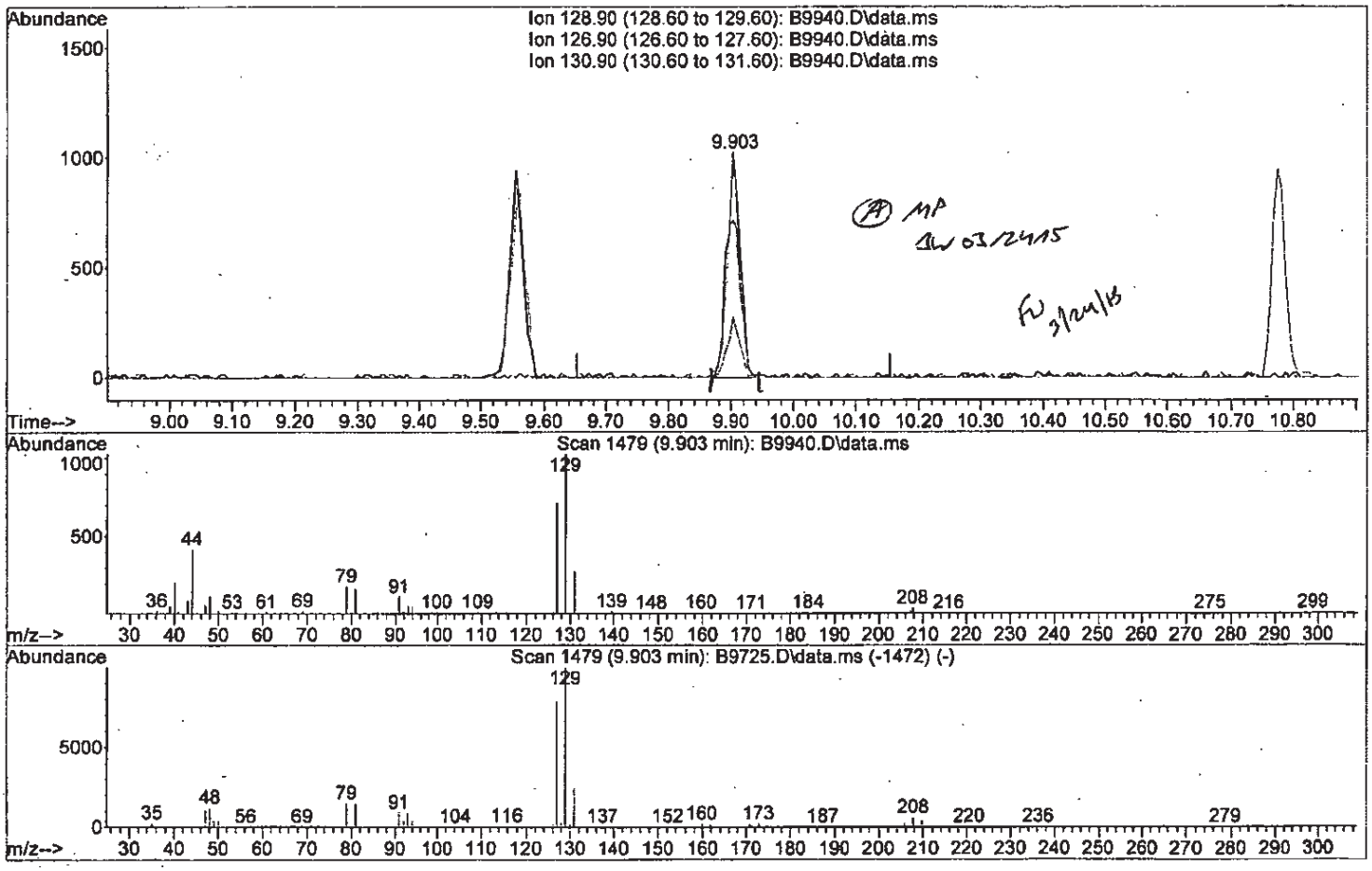
Ion	Exp%	Act%
128.90	100	0.0000
126.90	77.90	0.00#
130.90	24.10	0.00#
0.00	0.00	0.00

00331

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(75) Dibromochloromethane (P)

9.903min (+0.000) 0.93 ug/L m

response 1530

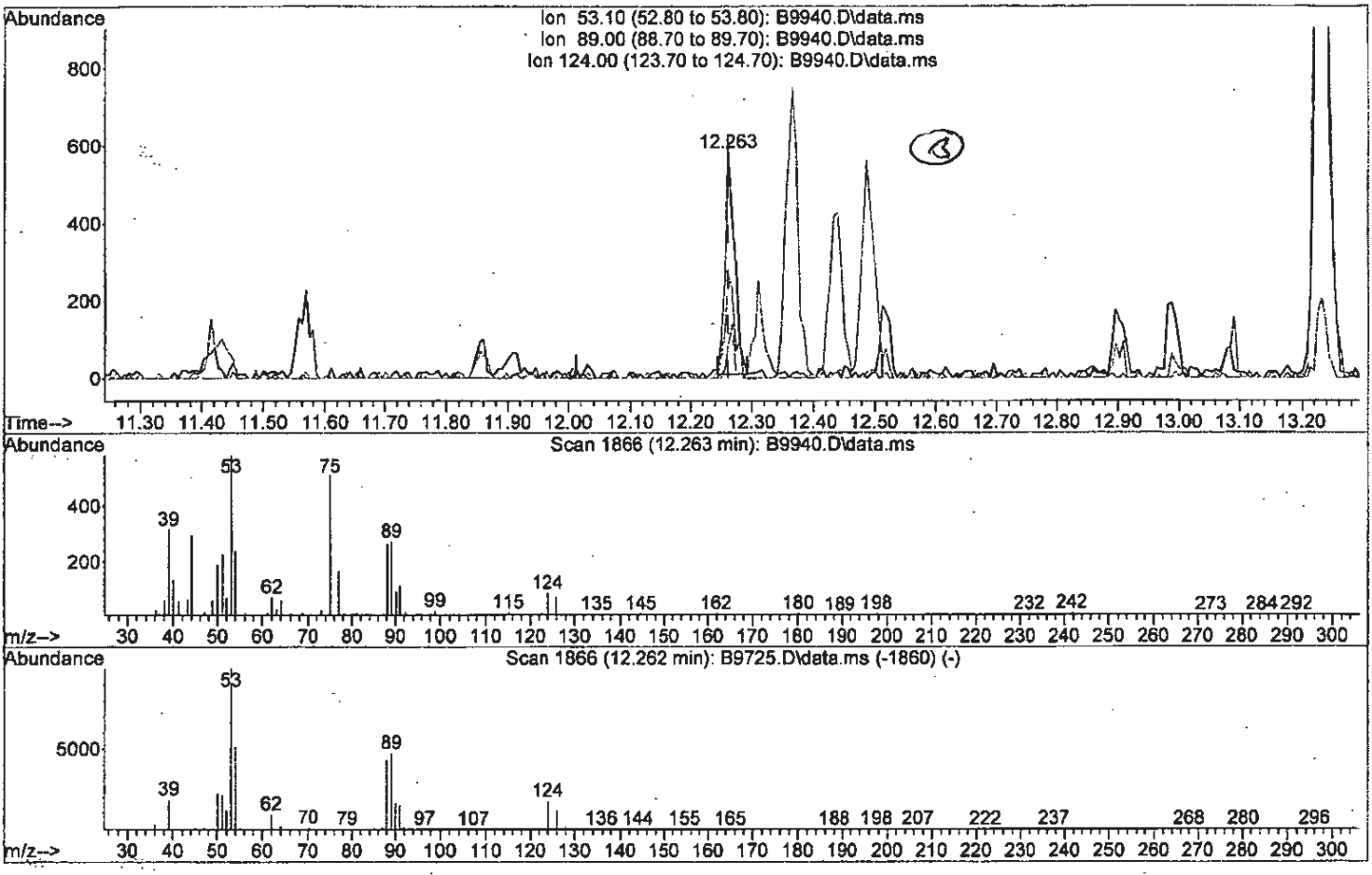
Ion	Exp%	Act%
128.90	100	100
126.90	77.90	69.70
130.90	24.10	26.78
0.00	0.00	0.00

00332

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(90) trans-1,4-Dichloro-2-Butene

12.263min (+0.000) 1.09 ug/L

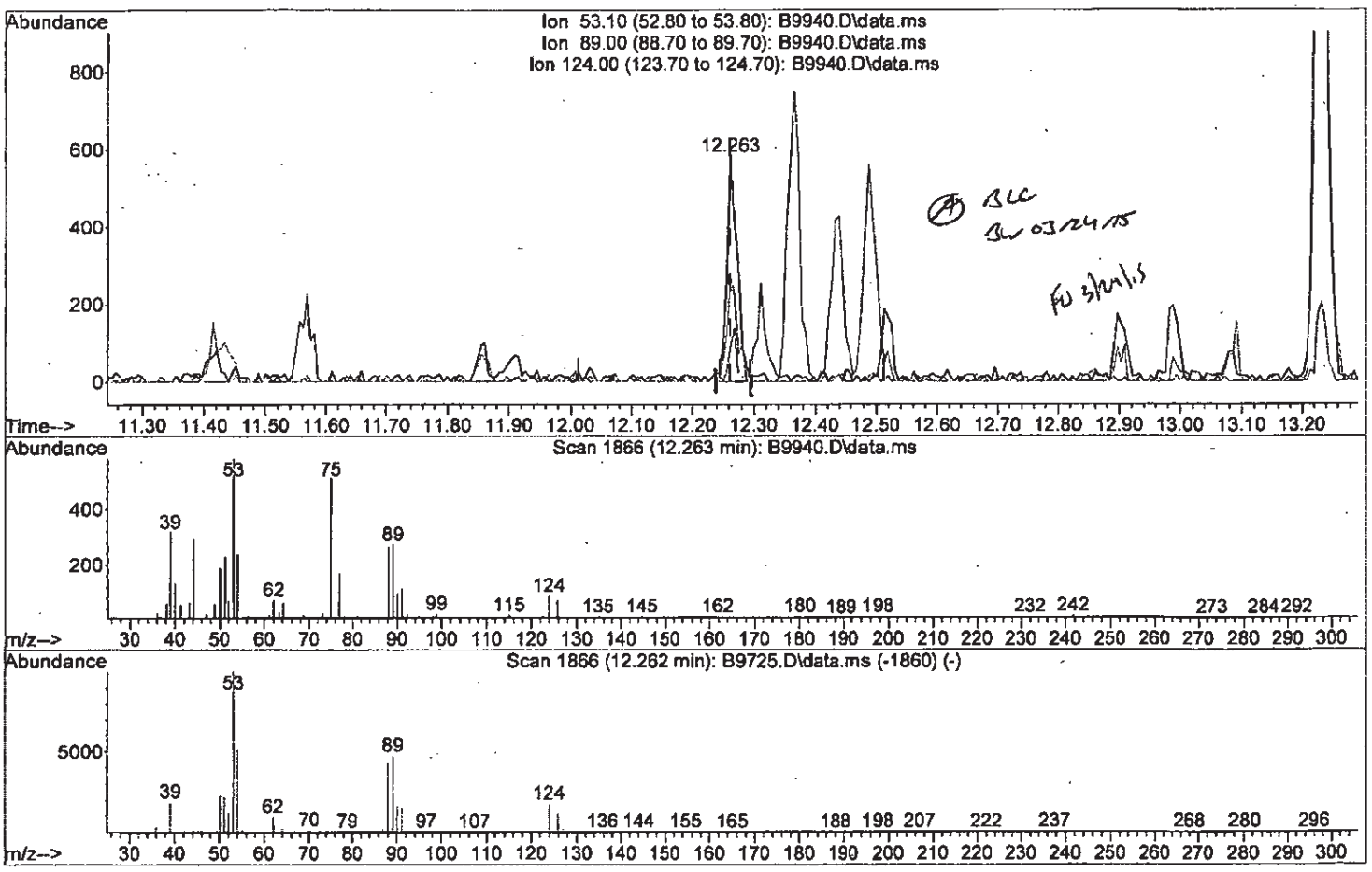
response 617

Ion	Exp%	Act%
53.10	100	100
89.00	47.30	46.74
124.00	17.50	14.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(90) trans-1,4-Dichloro-2-Butene

12.263min (+0.000) 1.16 ug/L m

response 657

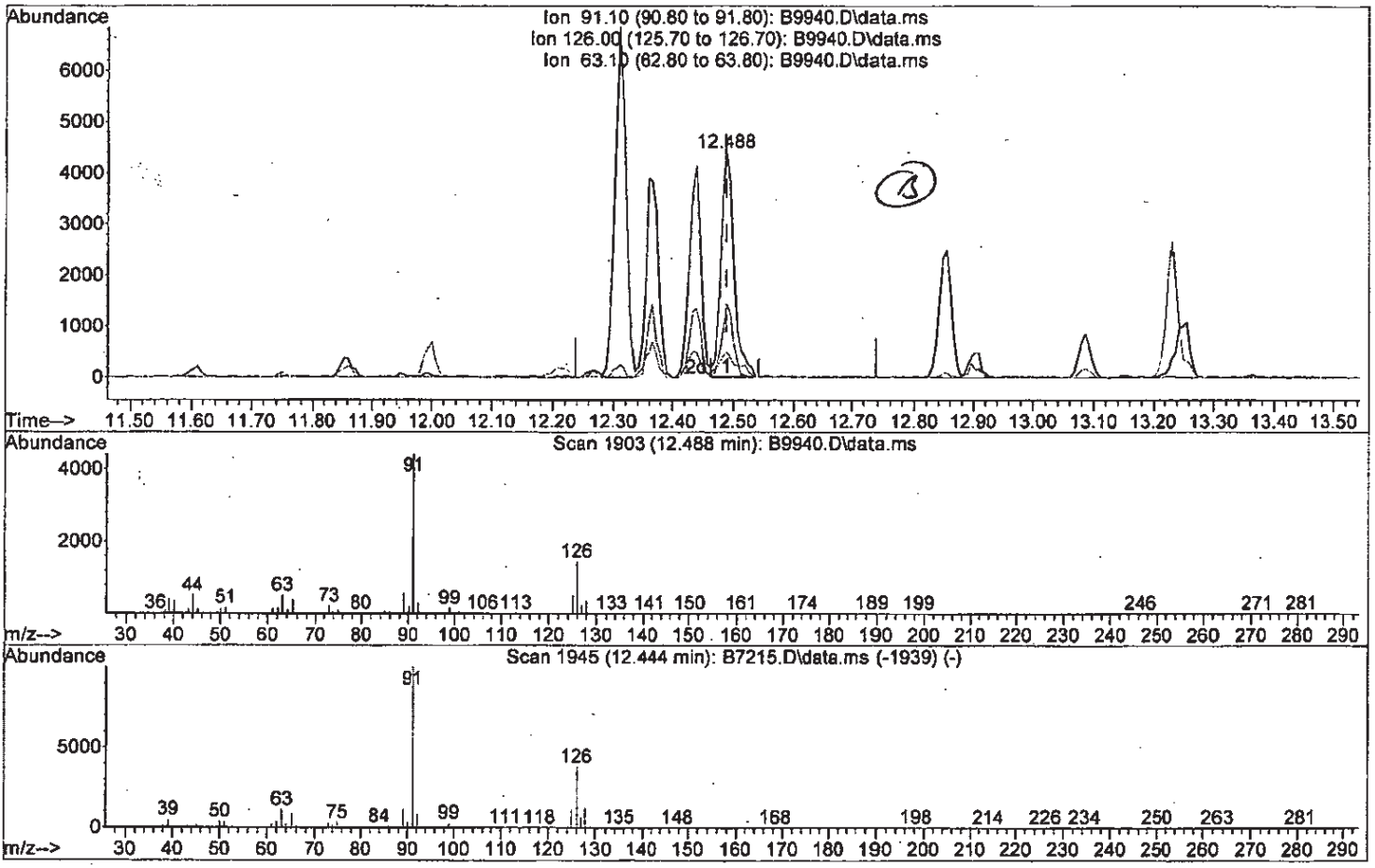
Ion	Exp%	Act%
53.10	100	100
89.00	47.30	46.74
124.00	17.60	14.95
0.00	0.00	0.00

00334

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(98) 3-Chlorotoluene

12.488min (+0.000) 10.54 ug/L

response 6526

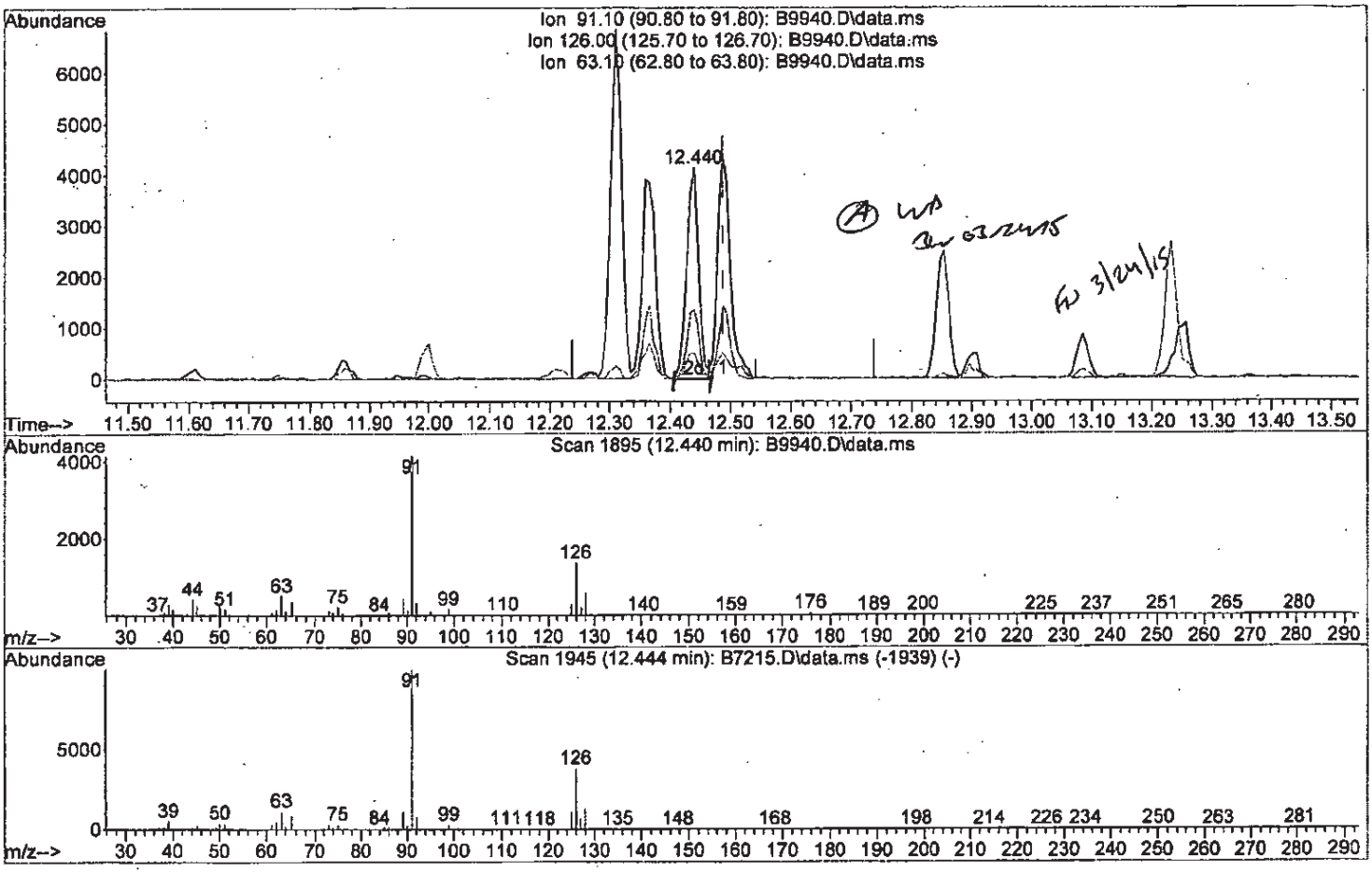
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	32.68
63.10	11.90	11.52
0.00	0.00	0.00

00335

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:29:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9940.D\data.ms

(98) 3-Chlorotoluene

12.440min (-0.049) 9.11 ug/L m

response 5641

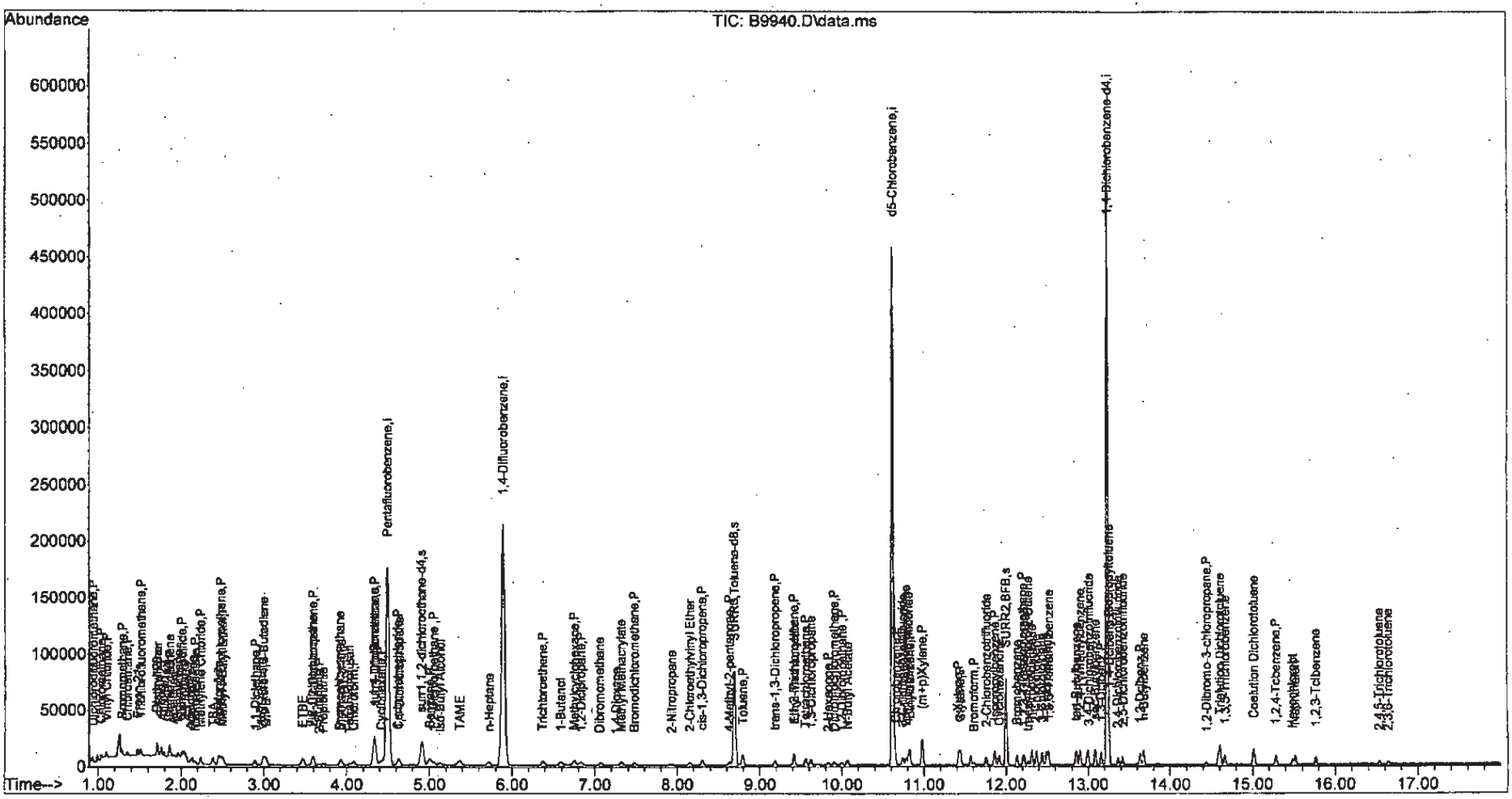
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	32.78
63.10	11.90	12.22
0.00	0.00	0.00

00336

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9940.D
Acq On : 20 Mar 2015 4:35 pm
Operator : B WOJTASIEWICZ
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 23 06:50:22 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:55:22 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

BW 03/24/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.496	168	175154	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.892	114	285729	50.00	ug/L		0.00
71) d5-Chlorobenzene	10.617	117	249426	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	119191	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.338	113	18427	10.19	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 20.38%#				
48) surr1,1,2-dichloroetha...	4.904	65	23268	12.11	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 24.22%#				
65) SURR3,Toluene-d8	8.690	98	69219	10.33	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 20.66%#				
70) SURR2,BFB	11.995	95	25330	10.67	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.34%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.936	85	3344	1.72	ug/L		96
4) Chloromethane	1.033	50	3693	1.68	ug/L		97
5) Vinyl Chloride	1.100	62	3834	1.47	ug/L		97
6) Bromomethane	1.283	94	2748	1.43	ug/L		93
7) Chloroethane	1.350	64	2406	1.52	ug/L		94
8) Freon 21	1.472	67	6418	1.64	ug/L		93
9) Trichlorofluoromethane	1.515	101	5076	1.71	ug/L		99
10) Diethyl Ether	1.710	59	3067	1.68	ug/L		99
11) Freon 123a	1.710	67	4250	1.72	ug/L		94
12) Freon 123	1.759	83	4713	1.59	ug/L		88
13) Acrolein	1.789	56	4132	7.90	ug/L		90
14) 1,1-Diclethene	1.856	96	3424	1.72	ug/L		92
15) Freon 113	1.868	101	3133	1.80	ug/L		98
16) Acetone	1.905	43	2242	2.28	ug/L		79
17) 2-Propanol	2.039	45	7640	47.48	ug/L		97
18) Iodomethane	1.966	142	3166	1.72	ug/L		98
19) Carbon Disulfide	2.009	76	8668	1.77	ug/L		96
20) Acetonitrile	2.112	40	1802m	9.29	ug/L		
21) Allyl Chloride	2.131	76	1903	1.78	ug/L	#	84
22) Methyl Acetate	2.167	43	3516	1.91	ug/L		95
23) Methylene Chloride	2.234	84	3841	1.92	ug/L		97
24) TBA	2.381	59	12094	74.39	ug/L		80
25) Acrylonitrile	2.448	53	9215	10.39	ug/L		94
26) Methyl-t-Butyl Ether	2.502	73	11229	2.44	ug/L		98
27) trans-1,2-Dichloroethene	2.478	96	3525	1.96	ug/L		94
28) 1,1-Diclethane	2.893	63	5485	1.83	ug/L		94
29) Vinyl Acetate	2.984	86	753	2.02	ug/L	#	89
30) DIPE	3.021	45	10605	2.33	ug/L		97
31) 2-Chloro-1,3-Butadiene	2.996	53	5798	2.21	ug/L		94
32) ETBE	3.466	59	11063	2.80	ug/L		97
33) 2,2-Dichloropropane	3.582	77	5032	3.13	ug/L		97
34) cis-1,2-Dichloroethene	3.594	96	3818	1.82	ug/L		83
35) 2-Butanone	3.661	43	2223	2.29	ug/L		88
36) Propionitrile	3.710	54	3771	11.35	ug/L		88

00338

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:55:22 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	3.923	130	2498	1.91	ug/L		93
38) Methacrylonitrile	3.929	67	2028	2.07	ug/L		99
39) Tetrahydrofuran	4.027	42	1503	2.65	ug/L		91
40) Chloroform	4.081	83	6379	2.02	ug/L		93
41) 1,1,1-Trichloroethane	4.331	97	5089	2.21	ug/L		94
42) TAME	5.356	73	10871	3.00	ug/L		98
44) Cyclohexane	4.417	41	2910	2.02	ug/L		80
46) Carbontetrachloride	4.612	121	1125	2.08	ug/L		90
47) 1,1-Dichloropropene	4.636	75	4368	1.86	ug/L		97
49) Benzene	5.002	78	14208	1.83	ug/L		94
50) 1,2-Dichloroethane	5.057	62	5350	2.07	ug/L		97
51) Iso-Butyl Alcohol	5.112	43	3928	52.55	ug/L		87
52) n-Heptane	5.715	43	3514	2.25	ug/L		82
53) 1-Butanol	6.581	56	6946m	130.58	ug/L		
54) Trichloroethene	6.380	130	3477	1.67	ug/L		94
55) Methylcyclohexane	6.752	55	4523	2.15	ug/L	#	79
56) 1,2-Diclpropane	6.825	63	3223	1.71	ug/L		68
57) Dibromomethane	7.075	93	2365	1.76	ug/L	#	80
58) 1,4-Dioxane	7.245	88	1249m	37.20	ug/L		
59) Methyl Methacrylate	7.325	69	3213	2.21	ug/L		100
60) Bromodichloromethane	7.477	83	4369	1.90	ug/L		96
61) 2-Nitropropane	7.922	41	2287m	5.48	ug/L		
62) 2-Chloroethylvinyl Ether	8.148	63	2702	2.38	ug/L		98
63) cis-1,3-Dichloropropene	8.300	75	5441	2.20	ug/L		92
64) 4-Methyl-2-pentanone	8.629	43	4236	2.35	ug/L		98
66) Toluene	8.794	91	15285	1.84	ug/L		98
67) trans-1,3-Dichloropropene	9.184	75	4721	2.33	ug/L		99
68) Ethyl Methacrylate	9.422	69	4983	2.08	ug/L		92
69) 1,1,2-Trichloroethane	9.416	97	3339	1.66	ug/L		94
72) Tetrachloroethene	9.556	164	2884	1.92	ug/L		93
73) 2-Hexanone	9.836	43	3265	2.56	ug/L		86
74) 1,3-Dichloropropane	9.623	76	6012	1.88	ug/L		83
75) Dibromochloromethane	9.903	129	3083	1.73	ug/L		94
76) N-Butyl Acetate	10.068	43	6180	2.52	ug/L		89
77) 1,2-Dibromoethane	10.001	107	3786	1.89	ug/L		88
78) 3-Chlorobenzotrifluoride	10.733	180	4714	5.36	ug/L	#	100
79) Chlorobenzene	10.647	112	9609	1.77	ug/L		95
80) 4-Chlorobenzotrifluoride	10.806	180	3835	4.76	ug/L	#	100
81) 1,1,1,2-Tetrachloroethane	10.775	131	2815	1.73	ug/L		89
82) Ethylbenzene	10.830	106	4953	1.76	ug/L		95
83) (m+p)Xylene	10.976	106	12145	3.71	ug/L		90
84) o-Xylene	11.421	106	6089	1.90	ug/L		97
85) Styrene	11.440	104	9773	1.76	ug/L		94
86) Bromoform	11.604	173	2041	1.55	ug/L		88
87) 2-Chlorobenzotrifluoride	11.757	180	4279	5.79	ug/L	#	100
88) Isopropylbenzene	11.854	105	15645	1.98	ug/L		93
89) Cyclohexanone	11.909	55	6382	18.79	ug/L		81
90) trans-1,4-Dichloro-2-B...	12.263	53	1428	2.31	ug/L		96
92) 1,1,2,2-Tetrachloroethane	12.202	83	5108	1.86	ug/L		98
93) Bromobenzene	12.129	156	3727	1.83	ug/L	#	80
95) 1,2,3-Trichloropropane	12.220	110	1643	2.04	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:55:22 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

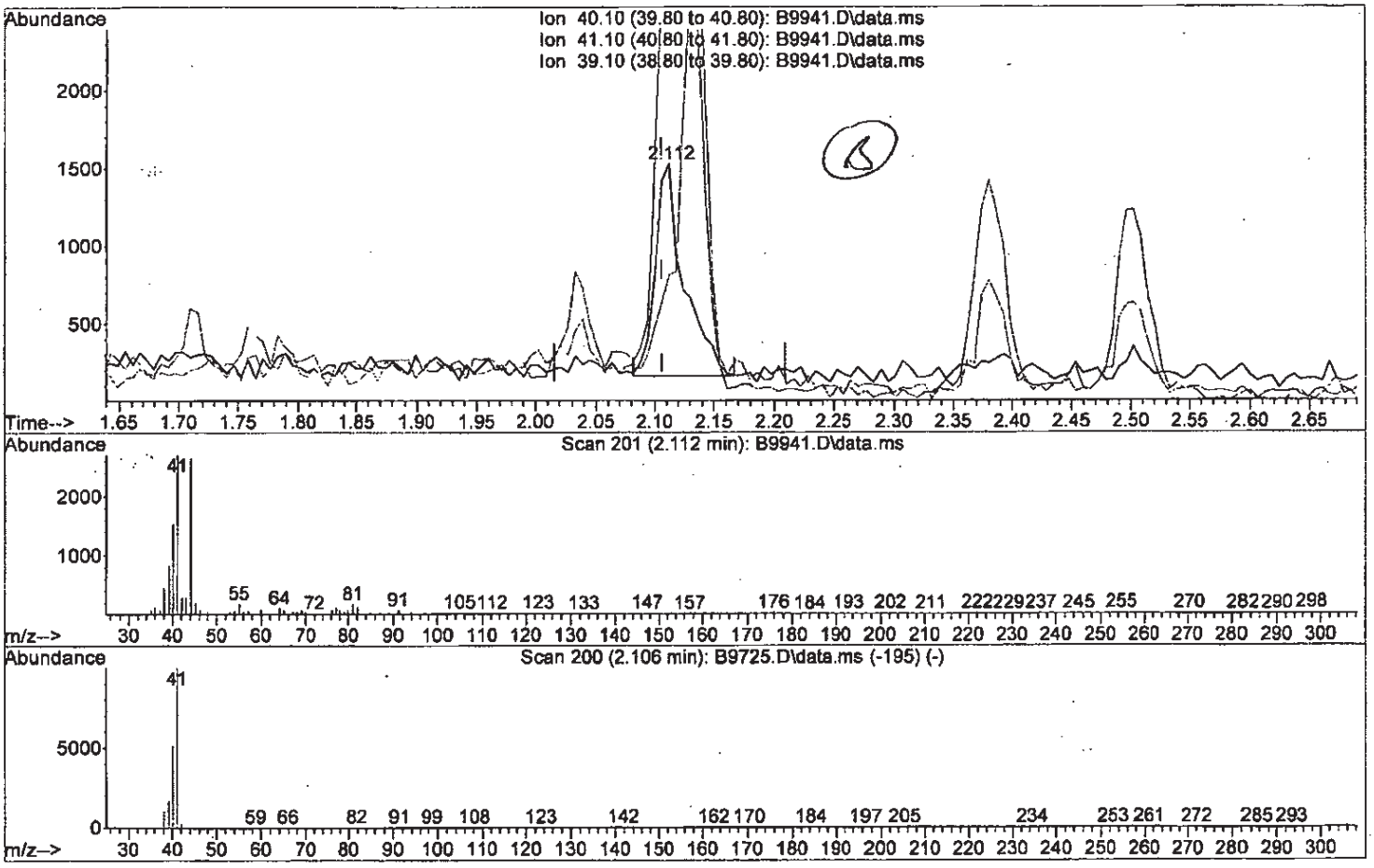
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
96)	n-Propylbenzene	12.312	91	18339m	2.09	ug/L		
97)	2-Chlorotoluene	12.366	91	11004	2.15	ug/L		97
98)	3-Chlorotoluene	12.433	91	10790m	16.04	ug/L		
99)	4-Chlorotoluene	12.488	91	12855	2.18	ug/L		95
100)	1,3,5-Trimethylbenzene	12.513	105	12196	2.10	ug/L		97
101)	tert-Butylbenzene	12.854	119	10778	2.14	ug/L		96
102)	1,2,4-Trimethylbenzene	12.903	105	12500	2.12	ug/L		94
103)	3,4-Dichlorobenzotrifl...	13.007	214	2988	4.44	ug/L	#	100
104)	sec-Butylbenzene	13.086	105	15698	2.07	ug/L		97
105)	p-Isopropyltoluene	13.257	119	12715	2.04	ug/L		98
106)	1,3-Dclbenz	13.159	146	7071	1.88	ug/L		94
107)	1,4-Dclbenz	13.257	146	7711	1.93	ug/L		94
108)	2,4-Dichlorobenzotrifl...	13.366	214	2585	3.84	ug/L	#	100
109)	2,5-Dichlorobenzotrifl...	13.421	214	3358	4.99	ug/L	#	100
111)	n-Butylbenzene	13.677	91	11850	2.03	ug/L		95
112)	1,2-Dclbenz	13.634	146	7262	1.93	ug/L		99
113)	1,2-Dibromo-3-chloropr...	14.433	157	856	2.08	ug/L	#	81
114)	Trielution Dichlorotol...	14.604	125	17651	26.24	ug/L	#	22
115)	1,3,5-Trichlorobenzene	14.665	180	4658	6.92	ug/L	#	100
116)	Coelution Dichlorotoluene	15.012	125	11882	17.66	ug/L	#	100
117)	1,2,4-Tcbenzene	15.281	180	3957	1.98	ug/L		86
118)	Hexachlorobt	15.482	225	1593	2.01	ug/L		92
119)	Naphthalen	15.512	128	10504	2.25	ug/L		95
120)	1,2,3-Tclbenzene	15.762	180	3449	2.12	ug/L		98
121)	2,4,5-Trichlorotoluene	16.530	159	1465	2.18	ug/L	#	100
122)	2,3,6-Trichlorotoluene	16.640	159	1476	2.19	ug/L	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:29:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9941.D\data.ms

(20) Acetonitrile

2.112min (+0.006) 11.84 ug/L

response 2296

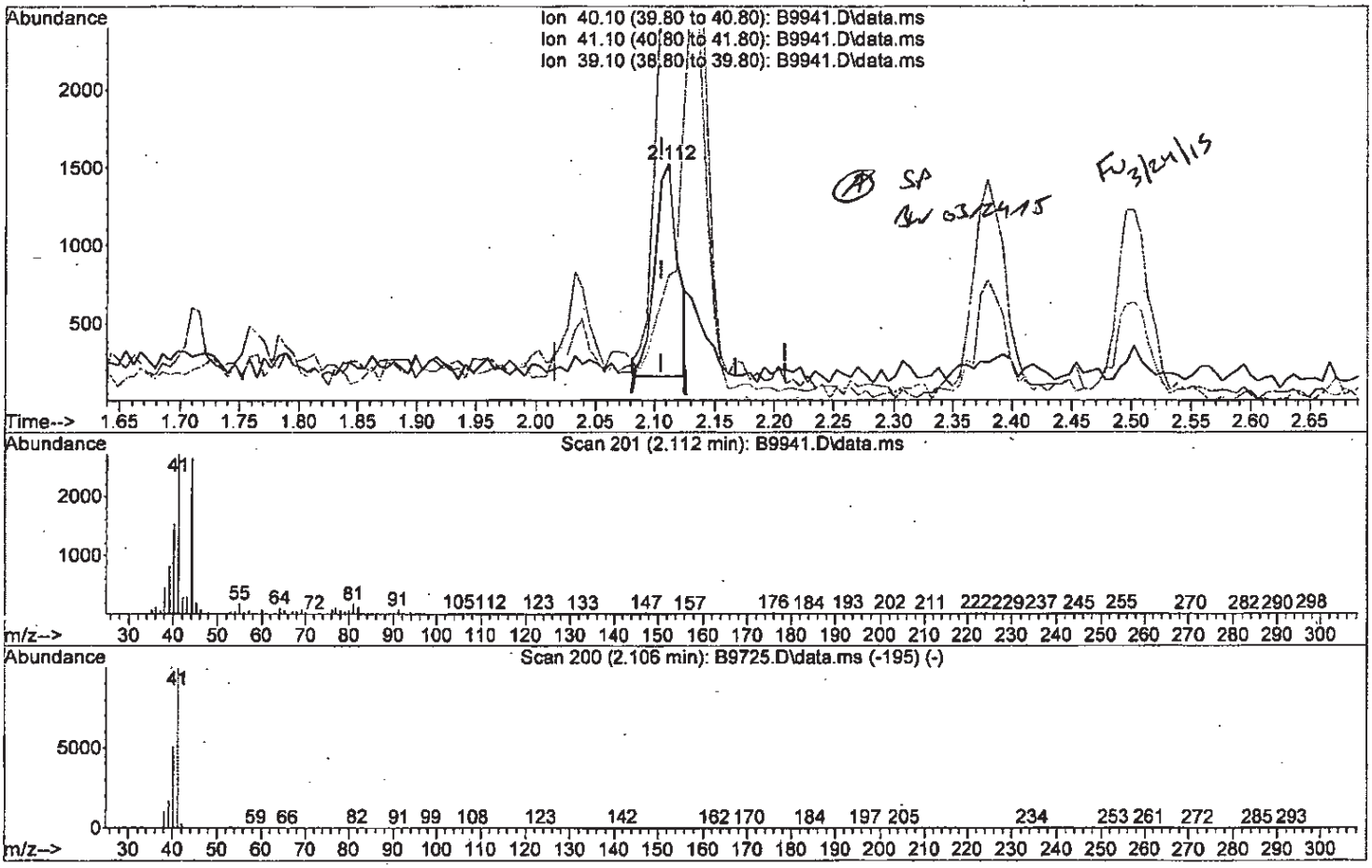
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	177.33
39.10	34.40	53.08
0.00	0.00	0.00

00341

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:29:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9941.D\data.ms

(20) Acetonitrile

2.112min (+0.006) 9.29 ug/L m

response 1802

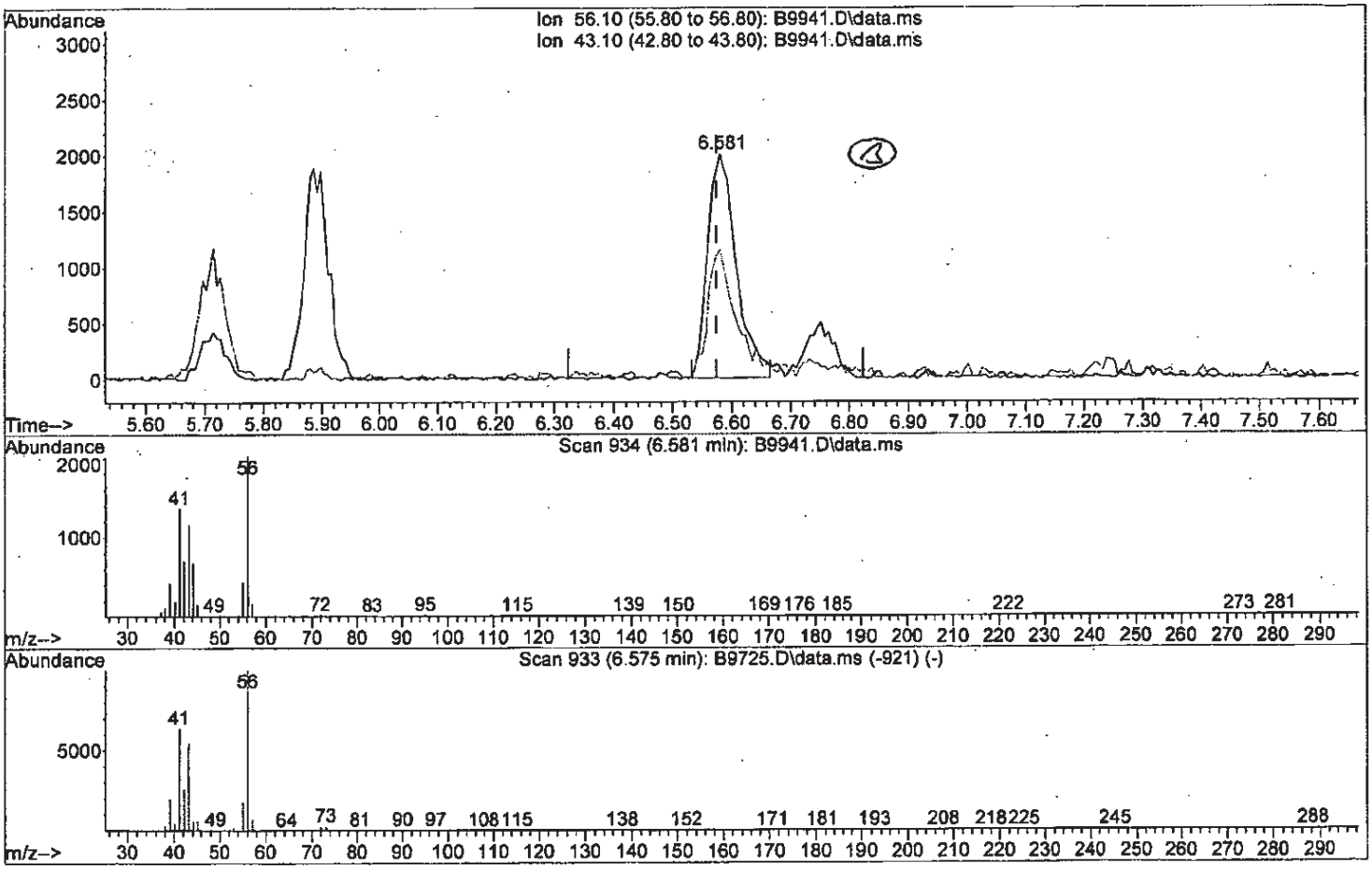
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	177.33
39.10	34.40	53.08
0.00	0.00	0.00

00342

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:29:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9941.D\data.ms

(53) 1-Butanol

6.581min (+0.006) 126.44 ug/L

response 6726

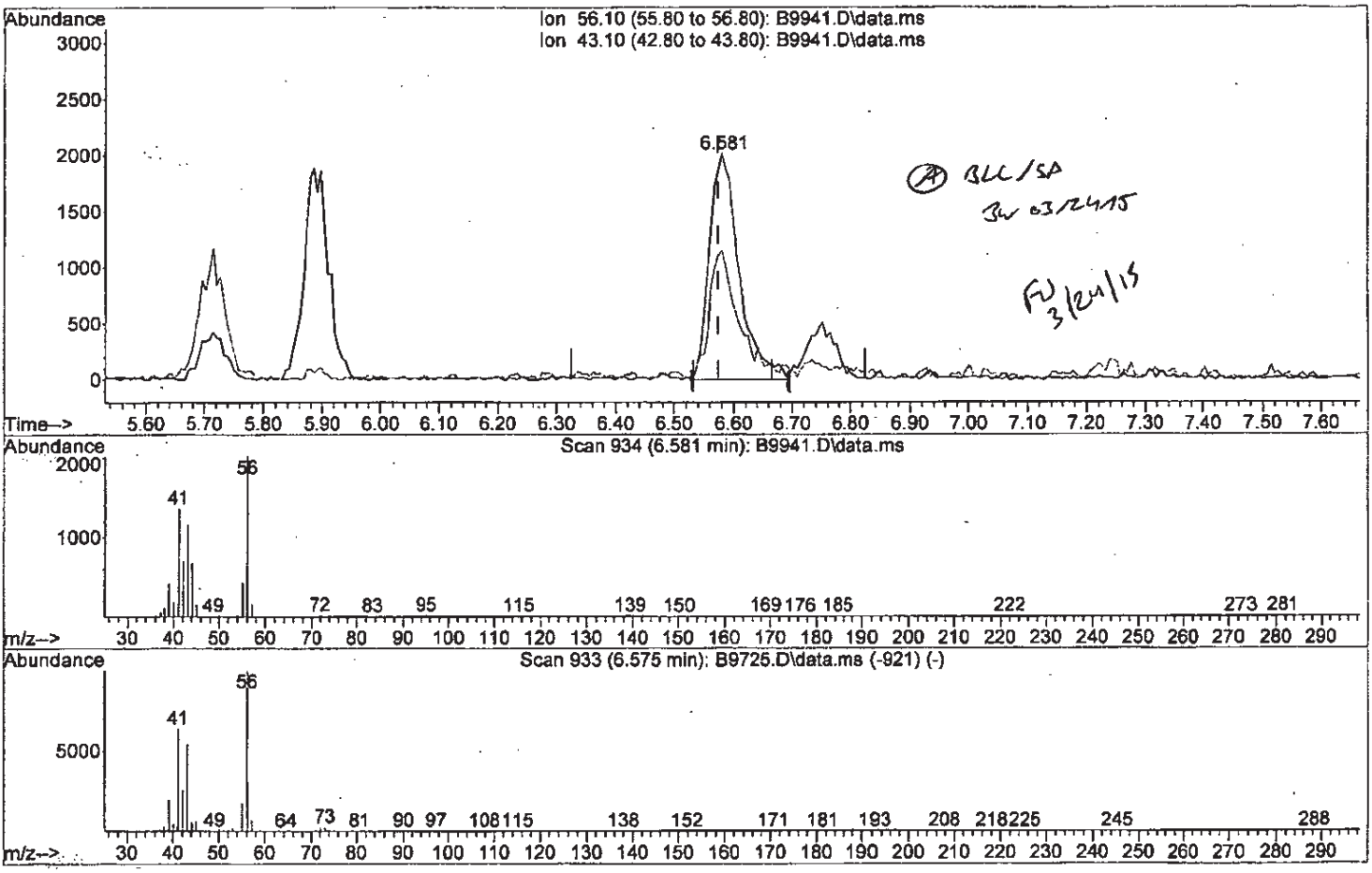
Ion	Exp%	Act%
56.10	100	100
43.10	54.50	57.28
0.00	0.00	0.00
0.00	0.00	0.00

00343

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:29:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9941.D\data.ms

(53) 1-Butanol

6.581min (+0.006) 130.58 ug/L m

response 6946

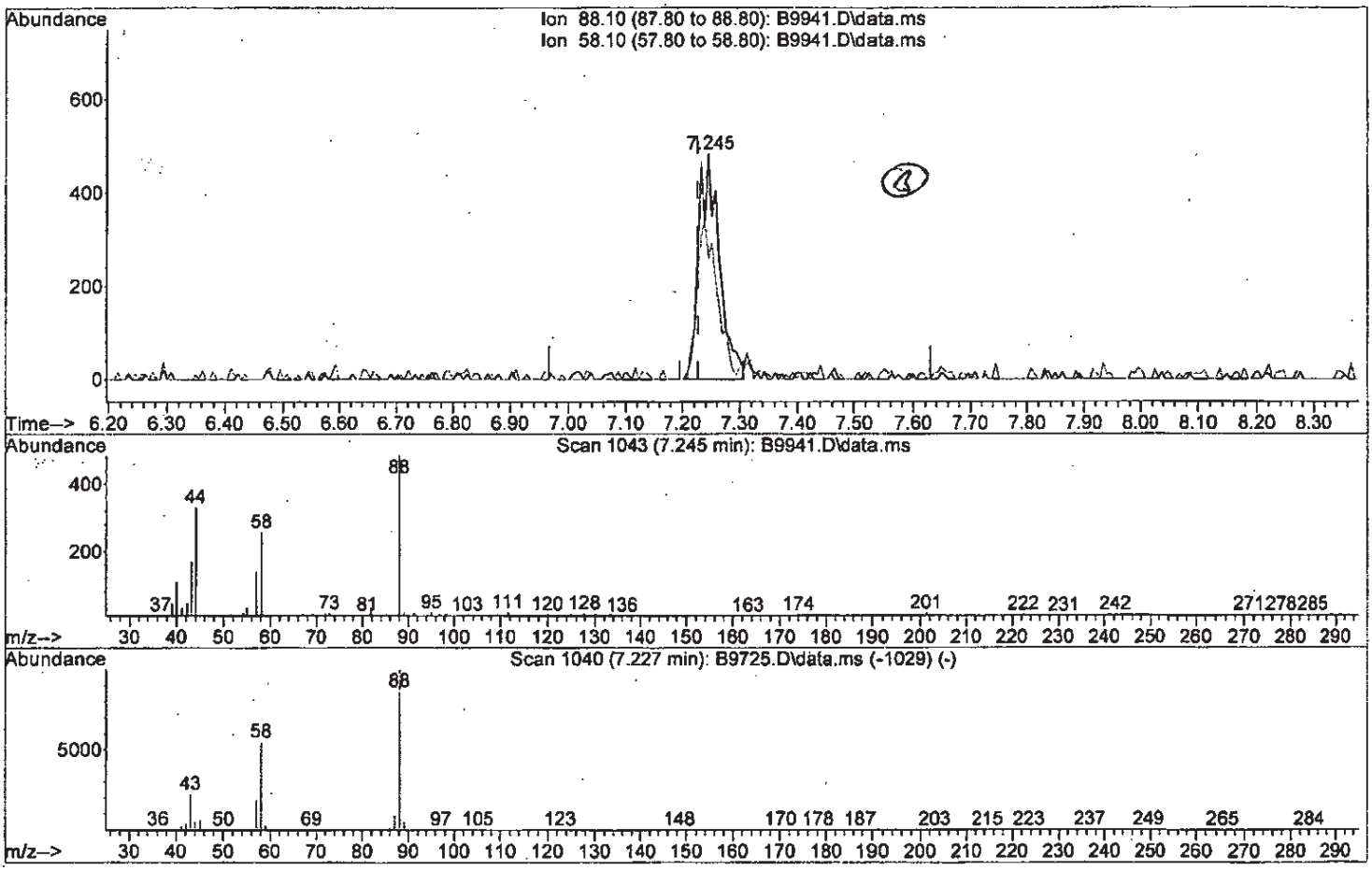
Ion	Exp%	Act%
56.10	100	100
43.10	54.50	57.28
0.00	0.00	0.00
0.00	0.00	0.00

00344

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:29:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9941.D\data.ms

(58) 1,4-Dioxane

7.245min (+0.019) 36.04 ug/L

response 1210

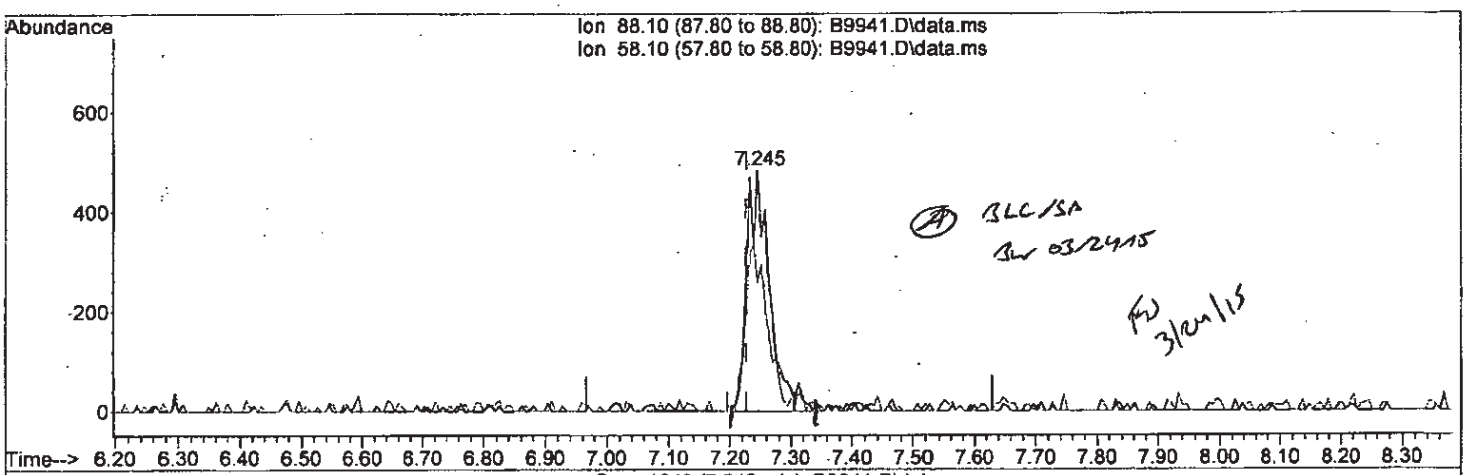
Ion	Exp%	Act%
88.10	100	100
58.10	54.90	53.21
0.00	0.00	0.00
0.00	0.00	0.00

00345

Quantitation Report (Qedit)

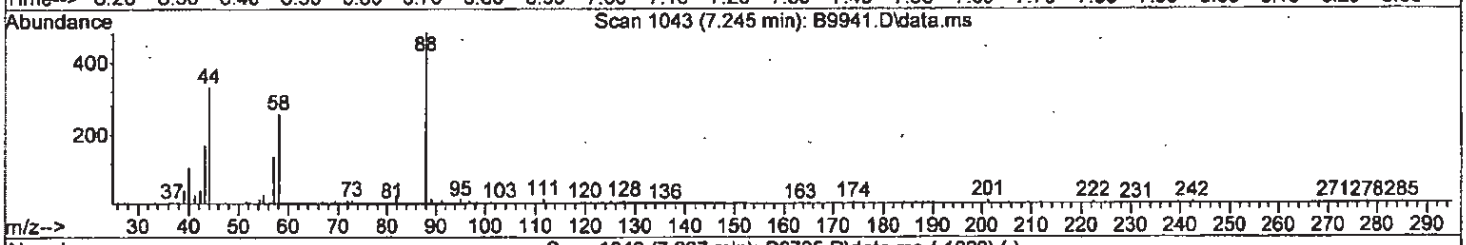
Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

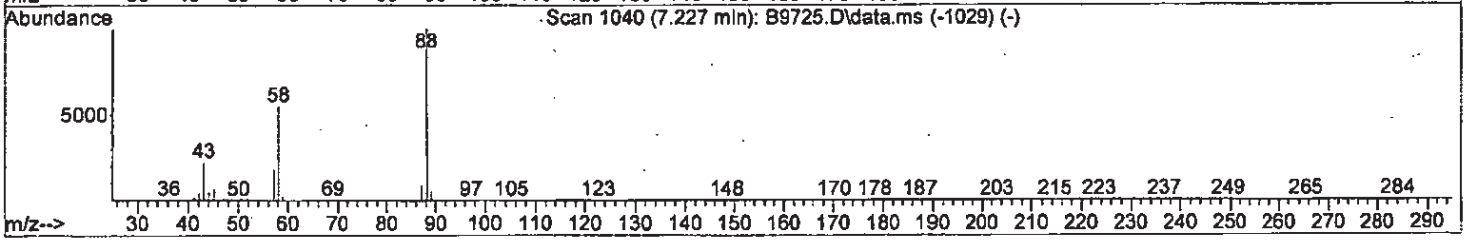
Quant Time: Mar 23 06:29:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



BLC/SA 03/24/15

FW 3/24/15





TIC: B9941.D\data.ms

(58) 1,4-Dioxane

7.245min (+0.019) 37.20 ug/L m

response 1249

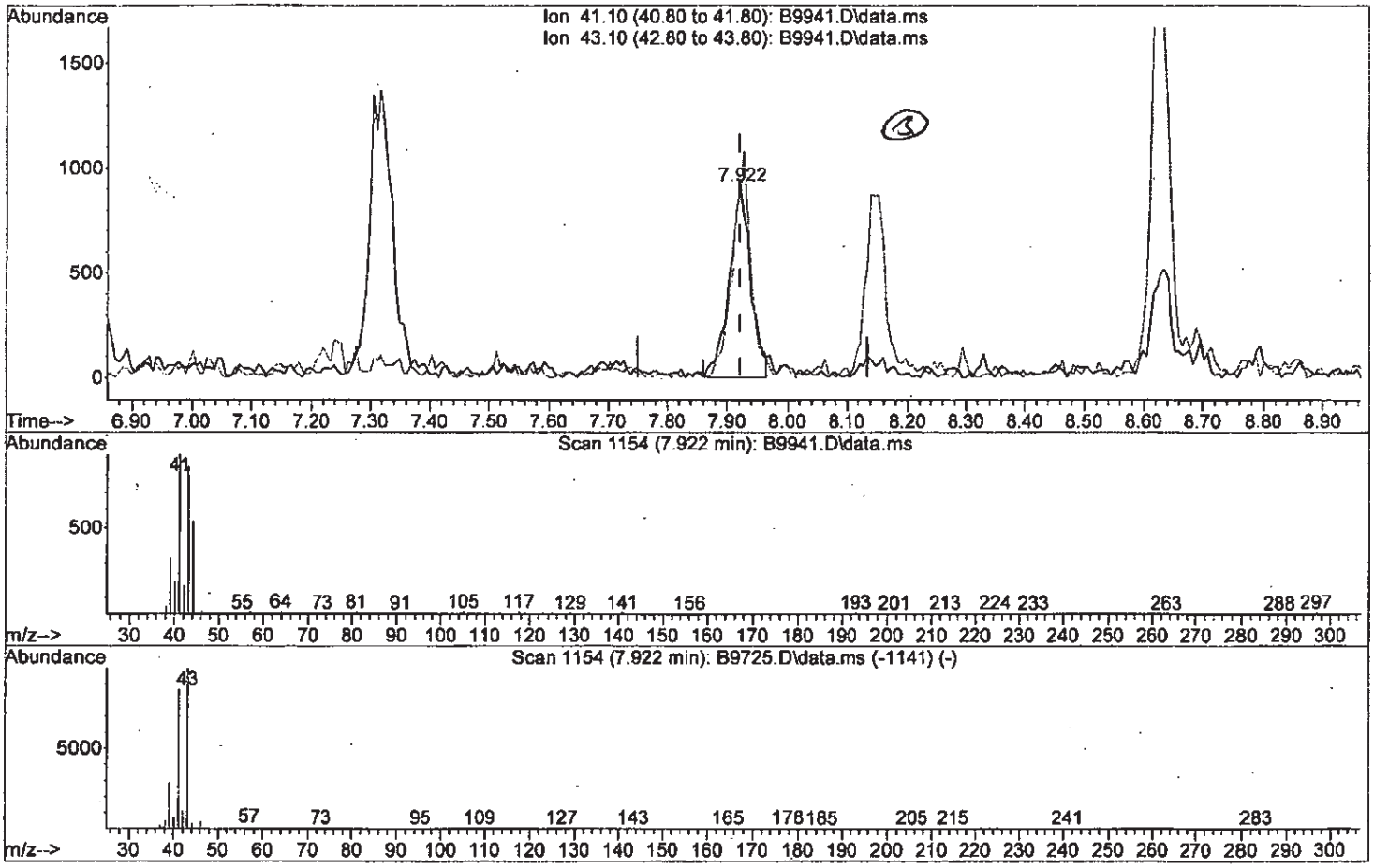
Ion	Exp%	Act%
88.10	100	100
58.10	54.90	53.21
0.00	0.00	0.00
0.00	0.00	0.00

00346

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:29:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9941.D\data.ms

(61) 2-Nitropropane

7.922min (+0.000) 5.34 ug/L

response 2228

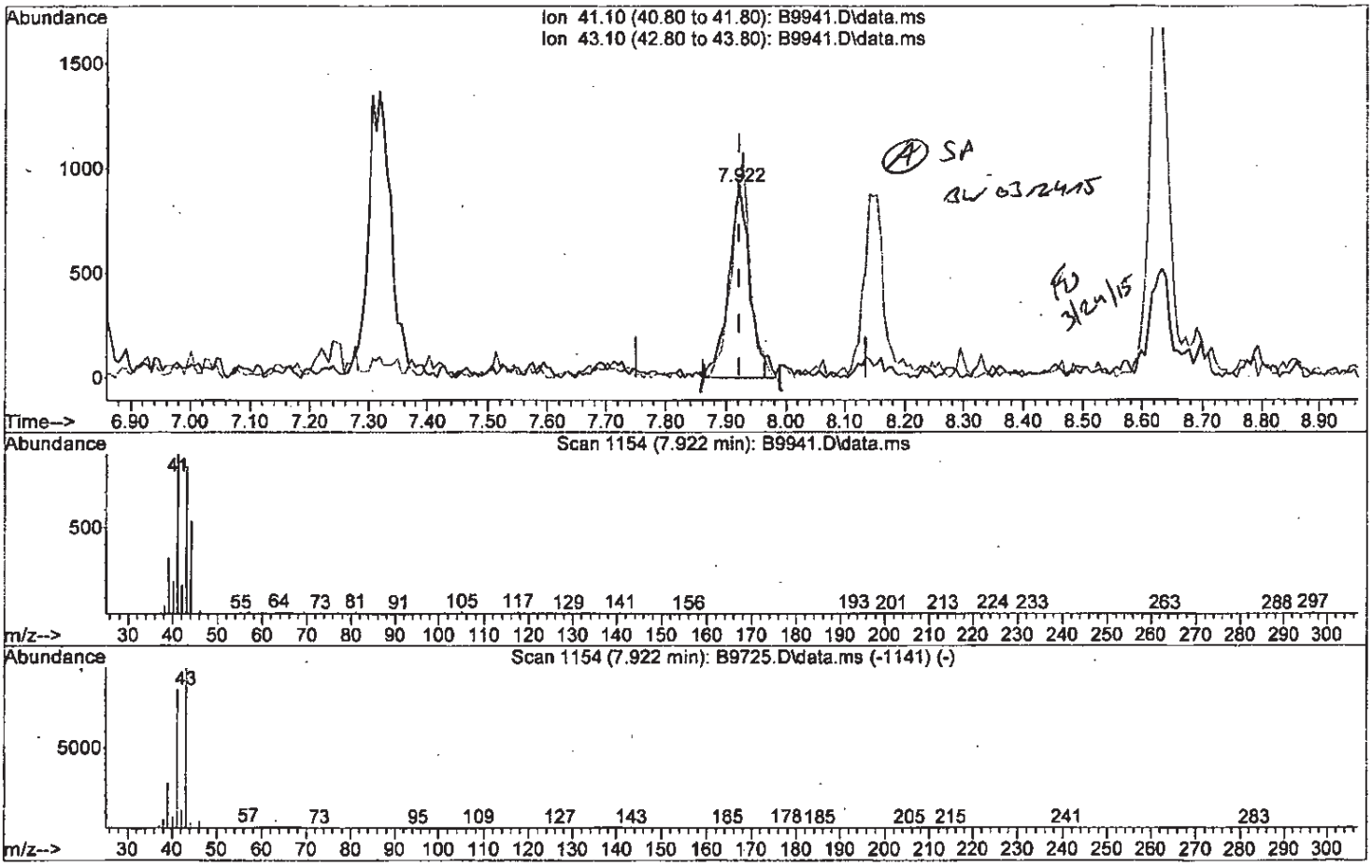
Ion	Exp%	Act%
41.10	100	100
43.10	115.50	92.12#
0.00	0.00	0.00
0.00	0.00	0.00

00347

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:29:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9941.D\data.ms

(61) 2-Nitropropane

7.922min (+0.000) 5.48 ug/L m

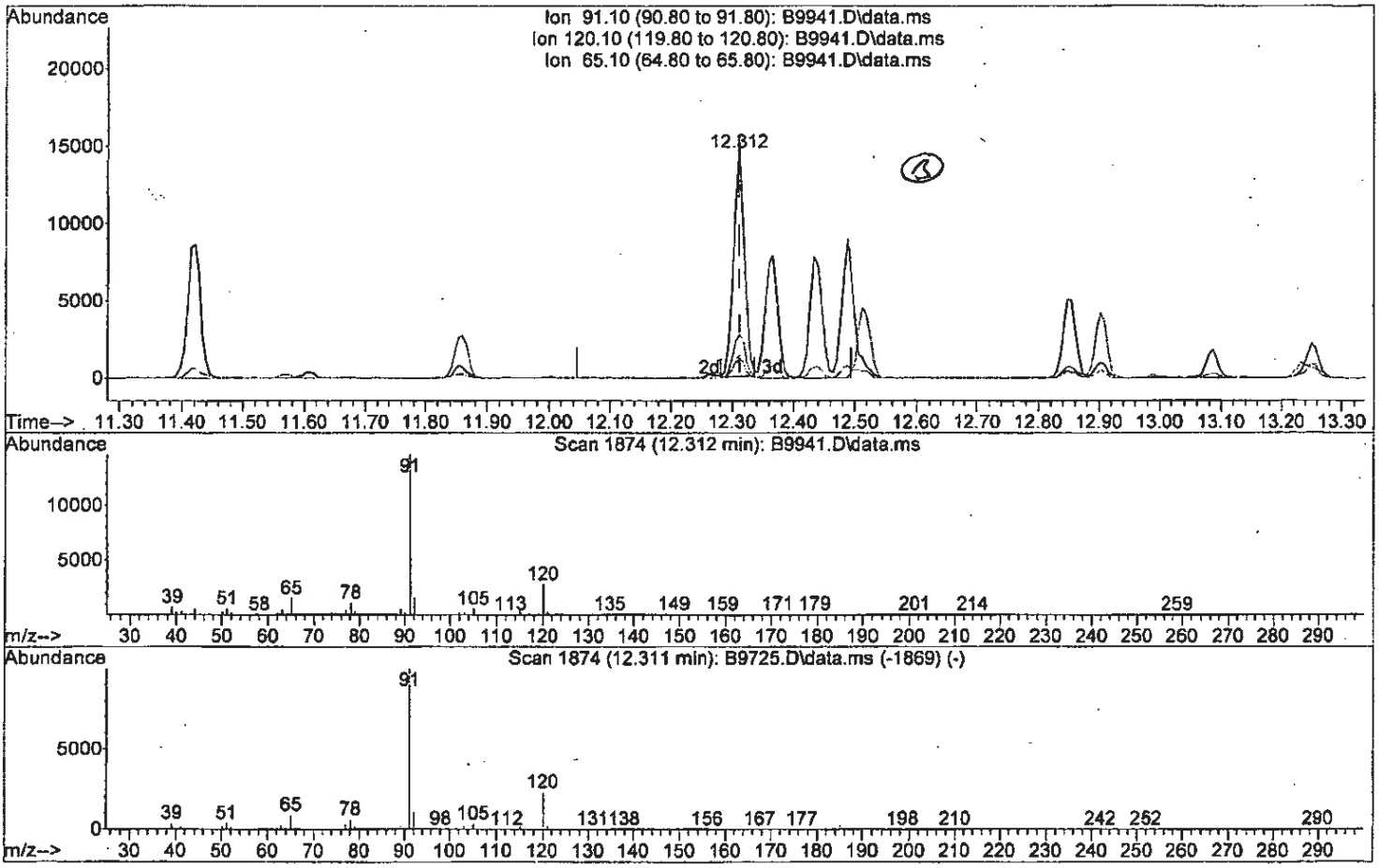
response 2287

Ion	Exp%	Act%
41.10	100	100
43.10	115.50	92.12#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:29:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9941.D\data.ms

(96) n-Propylbenzene

12.312min (+0.000) 2.03 ug/L

response 17836

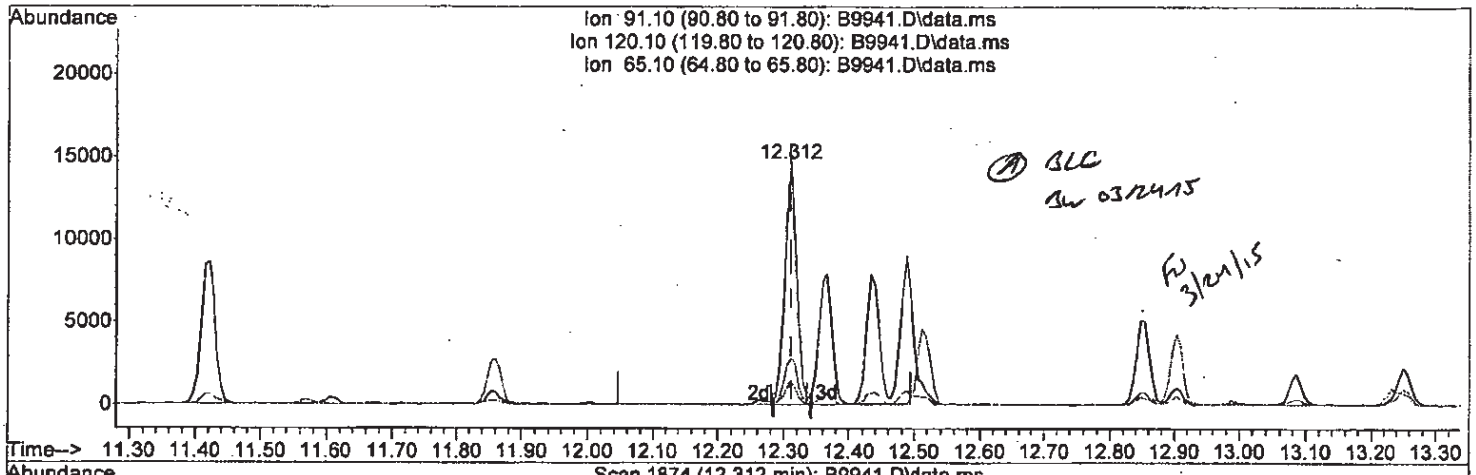
Ion	Exp%	Act%
91.10	100	100
120.10	22.70	19.00
65.10	8.70	10.24
0.00	0.00	0.00

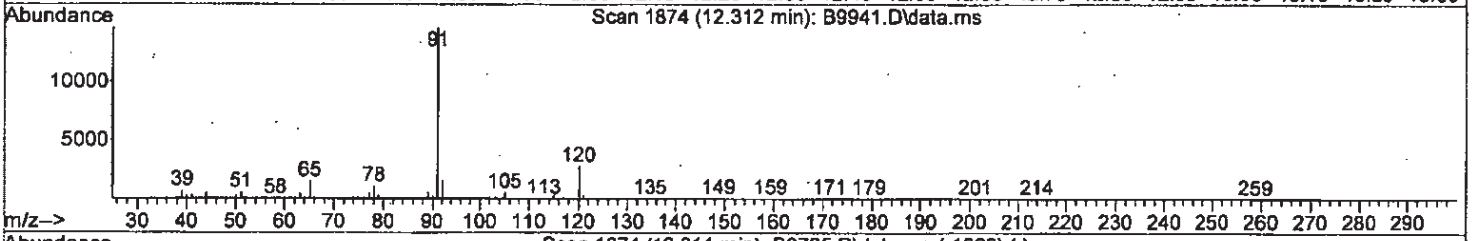
00349

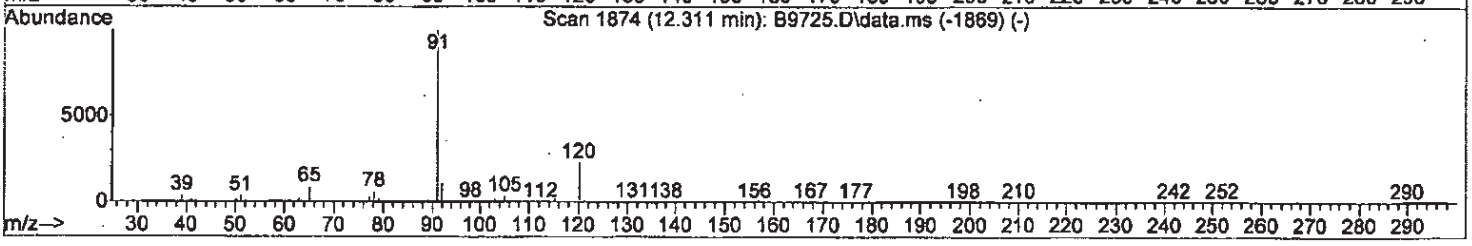
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:29:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9941.D\data.ms

(96) n-Propylbenzene

12.312min (+0.000) 2.09 ug/L m

response 18339

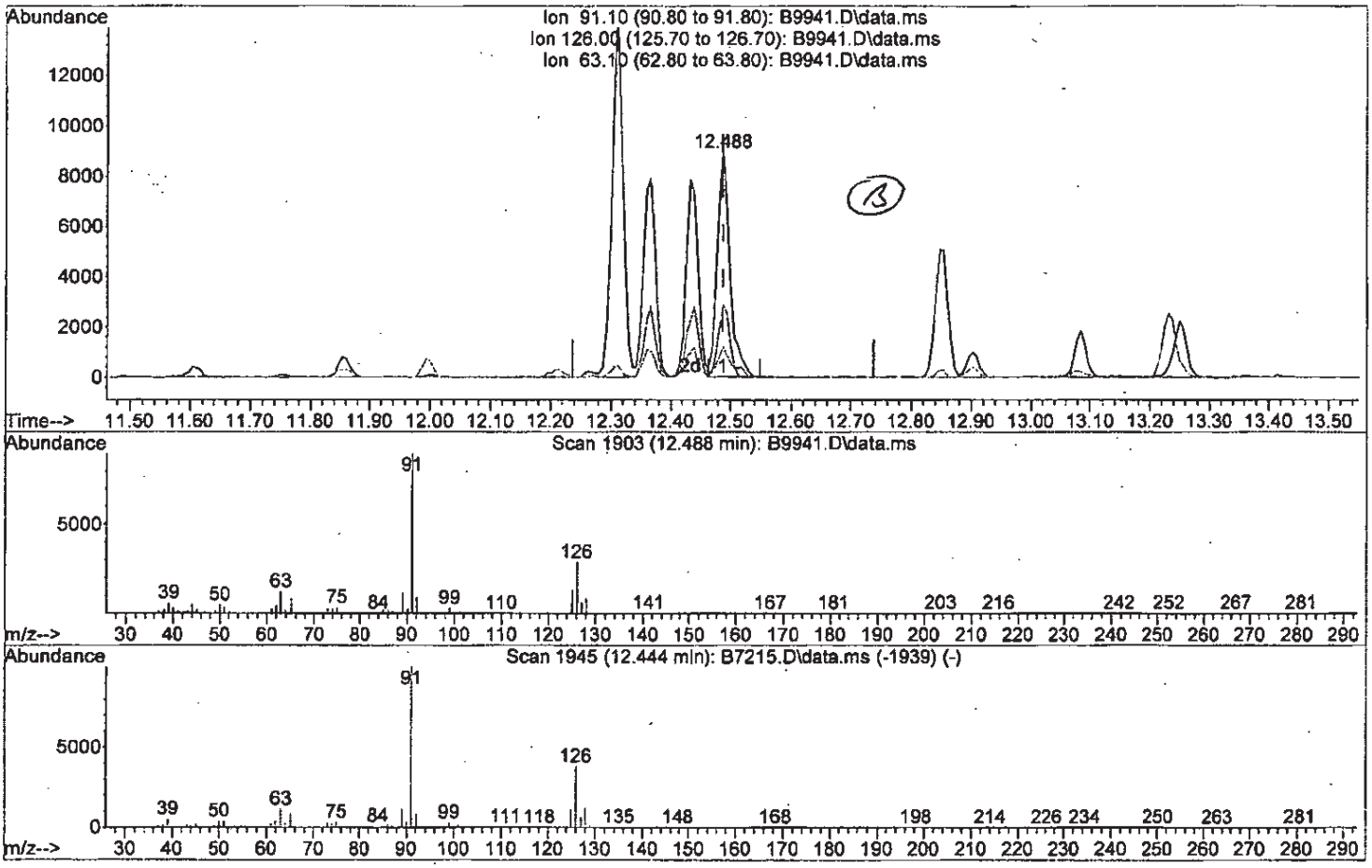
Ion	Exp%	Act%
91.10	100	100
120.10	22.70	19.00
65.10	8.70	10.24
0.00	0.00	0.00

00350

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:29:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9941.D\data.ms

(98) 3-Chlorotoluene

12.488min (+0.000) 19.08 ug/L

response 12839

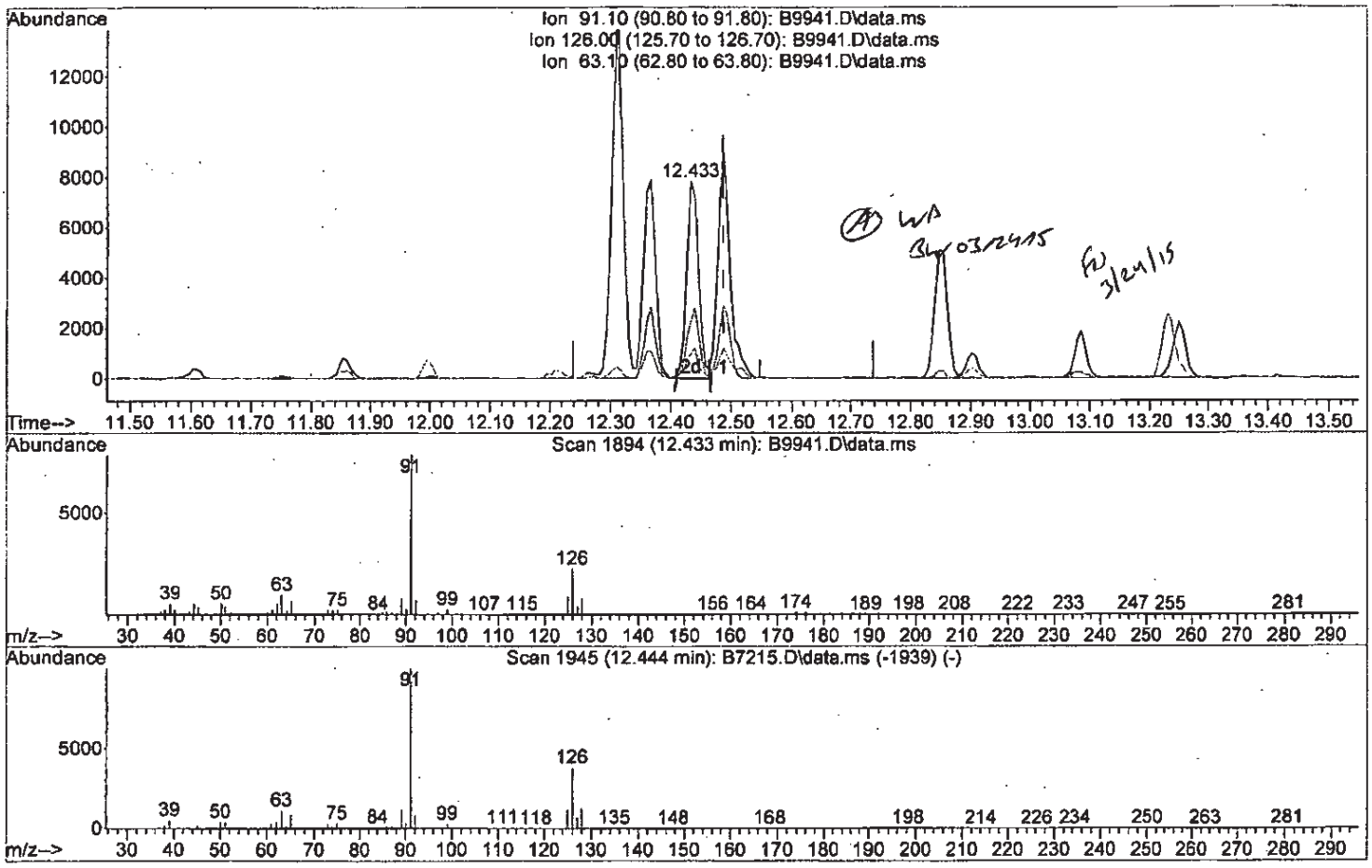
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	32.15
63.10	11.90	13.56
0.00	0.00	0.00

00351

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:29:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9941.D\data.ms

(98) 3-Chlorotoluene

12.433min (-0.055) 16.04 ug/L m

response 10790

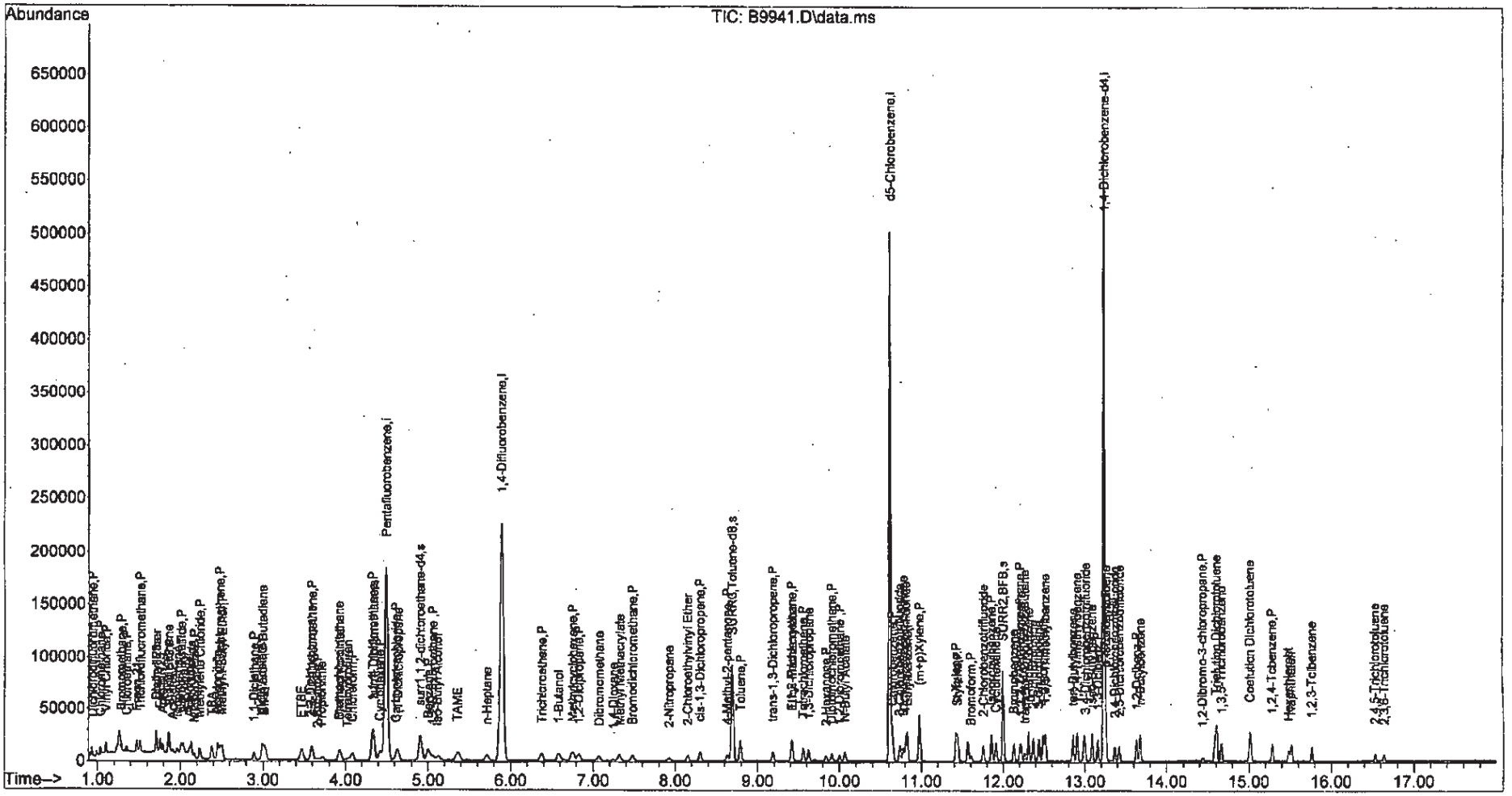
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	28.74
63.10	11.90	12.39
0.00	0.00	0.00

00352

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9941.D
Acq On : 20 Mar 2015 4:59 pm
Operator : B WOJTASIEWICZ
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 23 06:55:22 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 07:00:03 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

BW 03/24/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.496	168	166278	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.892	114	271541	50.00	ug/L		0.00
71) d5-Chlorobenzene	10.617	117	234877	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	114096	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.337	113	17097	9.95	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 19.90%#				
48) surr1,1,2-dichloroetha...	4.904	65	21551	11.80	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 23.60%#				
65) SURR3,Toluene-d8	8.696	98	64578	10.14	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 20.28%#				
70) SURR2,BFB	11.994	95	24163	10.71	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.42%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.936	85	8426	4.56	ug/L		96
4) Chloromethane	1.033	50	8836	4.24	ug/L		95
5) Vinyl Chloride	1.100	62	9399	3.81	ug/L		97
6) Bromomethane	1.283	94	5321	2.91	ug/L		99
7) Chloroethane	1.350	64	6676m	4.43	ug/L		
8) Freon 21	1.478	67	16781	4.52	ug/L		92
9) Trichlorofluoromethane	1.509	101	13230	4.70	ug/L		97
10) Diethyl Ether	1.710	59	7689	4.43	ug/L		96
11) Freon 123a	1.710	67	10480	4.47	ug/L		91
12) Freon 123	1.759	83	12517	4.46	ug/L		92
13) Acrolein	1.789	56	9916	19.98	ug/L		97
14) 1,1-Diclethene	1.856	96	7994	4.22	ug/L	#	84
15) Freon 113	1.862	101	7516	4.54	ug/L		92
16) Acetone	1.911	43	4592	4.93	ug/L		91
17) 2-Propanol	2.045	45	17096	111.93	ug/L		99
18) Iodomethane	1.966	142	7633	4.36	ug/L		98
19) Carbon Disulfide	2.008	76	22744	4.89	ug/L		97
20) Acetonitrile	2.112	40	4273m	23.21	ug/L		
21) Allyl Chloride	2.130	76	4421	4.36	ug/L	#	74
22) Methyl Acetate	2.167	43	7897	4.53	ug/L		97
23) Methylene Chloride	2.234	84	9210	4.86	ug/L		95
24) TBA	2.386	59	28229	182.90	ug/L		78
25) Acrylonitrile	2.454	53	21777	25.86	ug/L		96
26) Methyl-t-Butyl Ether	2.502	73	27788	6.35	ug/L		98
27) trans-1,2-Dichloroethene	2.478	96	8235	4.83	ug/L		89
28) 1,1-Diclethane	2.892	63	14494	5.11	ug/L		92
29) Vinyl Acetate	2.984	86	2212	6.24	ug/L	#	76
30) DIPE	3.027	45	25900	6.00	ug/L		93
31) 2-Chloro-1,3-Butadiene	2.990	53	14487	5.82	ug/L		84
32) ETBE	3.472	59	27766	7.39	ug/L		97
33) 2,2-Dichloropropane	3.587	77	12100	7.94	ug/L		99
34) cis-1,2-Dichloroethene	3.594	96	9461	4.75	ug/L		85
35) 2-Butanone	3.655	43	5383	5.85	ug/L		93
36) Propionitrile	3.715	54	8243	26.13	ug/L		95

00354

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 07:00:03 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	3.923	130	6033	4.86	ug/L	#	82
38) Methacrylonitrile	3.941	67	5018	5.39	ug/L		99
39) Tetrahydrofuran	4.032	42	3045	5.65	ug/L		84
40) Chloroform	4.081	83	15175	5.06	ug/L		90
41) 1,1,1-Trichloroethane	4.331	97	13257	6.08	ug/L		93
42) TAME	5.361	73	26592	7.72	ug/L		94
44) Cyclohexane	4.417	41	7254	5.30	ug/L		99
46) Carbontetrachloride	4.624	121	3127	6.08	ug/L		94
47) 1,1-Dichloropropene	4.630	75	11293	5.06	ug/L		90
49) Benzene	5.002	78	34103	4.62	ug/L		97
50) 1,2-Dichloroethane	5.057	62	13652	5.55	ug/L		98
51) Iso-Butyl Alcohol	5.118	43	9885	139.17	ug/L		96
52) n-Heptane	5.721	43	8236	5.55	ug/L		84
53) 1-Butanol	6.575	56	16588m	328.13	ug/L		
54) Trichloroethene	6.373	130	8674	4.39	ug/L		94
55) Methylcyclohexane	6.751	55	10164	5.07	ug/L	#	80
56) 1,2-Diclpropane	6.831	63	8622	4.81	ug/L		99
57) Dibromomethane	7.062	93	5847	4.58	ug/L		99
58) 1,4-Dioxane	7.239	88	3306	103.62	ug/L		96
59) Methyl Methacrylate	7.318	69	8025	5.81	ug/L		85
60) Bromodichloromethane	7.477	83	11241	5.14	ug/L		98
61) 2-Nitropropane	7.922	41	4987m	12.58	ug/L		
62) 2-Chloroethylvinyl Ether	8.148	63	6844	6.36	ug/L		87
63) cis-1,3-Dichloropropene	8.300	75	13045	5.55	ug/L		92
64) 4-Methyl-2-pentanone	8.629	43	9898	5.77	ug/L		95
66) Toluene	8.788	91	37259	4.73	ug/L		99
67) trans-1,3-Dichloropropene	9.184	75	11988	6.23	ug/L		98
68) Ethyl Methacrylate	9.422	69	13182	5.79	ug/L		93
69) 1,1,2-Trichloroethane	9.416	97	8687	4.56	ug/L		95
72) Tetrachloroethene	9.556	164	6754	4.78	ug/L		95
73) 2-Hexanone	9.836	43	7585	6.31	ug/L		95
74) 1,3-Dichloropropane	9.623	76	15030	5.00	ug/L		94
75) Dibromochloromethane	9.903	129	8177	4.87	ug/L		94
76) N-Butyl Acetate	10.062	43	15570	6.75	ug/L		97
77) 1,2-Dibromoethane	10.001	107	9149	4.85	ug/L		99
78) 3-Chlorobenzotrifluoride	10.738	180	11125	13.43	ug/L	#	100
79) Chlorobenzene	10.647	112	23337	4.56	ug/L		95
80) 4-Chlorobenzotrifluoride	10.806	180	10166	13.39	ug/L	#	100
81) 1,1,1,2-Tetrachloroethane	10.775	131	7564	4.95	ug/L		95
82) Ethylbenzene	10.824	106	12714	4.81	ug/L		92
83) (m+p)Xylene	10.976	106	30246	9.80	ug/L		98
84) o-Xylene	11.421	106	15116	5.01	ug/L		95
85) Styrene	11.440	104	25498	4.89	ug/L		96
86) Bromoform	11.610	173	5120	4.14	ug/L		94
87) 2-Chlorobenzotrifluoride	11.757	180	10862	15.62	ug/L	#	100
88) Isopropylbenzene	11.860	105	39256	5.27	ug/L		97
89) Cyclohexanone	11.909	55	15173	47.43	ug/L		93
90) trans-1,4-Dichloro-2-B...	12.263	53	3402	5.85	ug/L		94
92) 1,1,2,2-Tetrachloroethane	12.202	83	13005	4.95	ug/L		98
93) Bromobenzene	12.128	156	9521	4.87	ug/L		94
95) 1,2,3-Trichloropropane	12.220	110	3970	5.16	ug/L	#	88

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 07:00:03 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

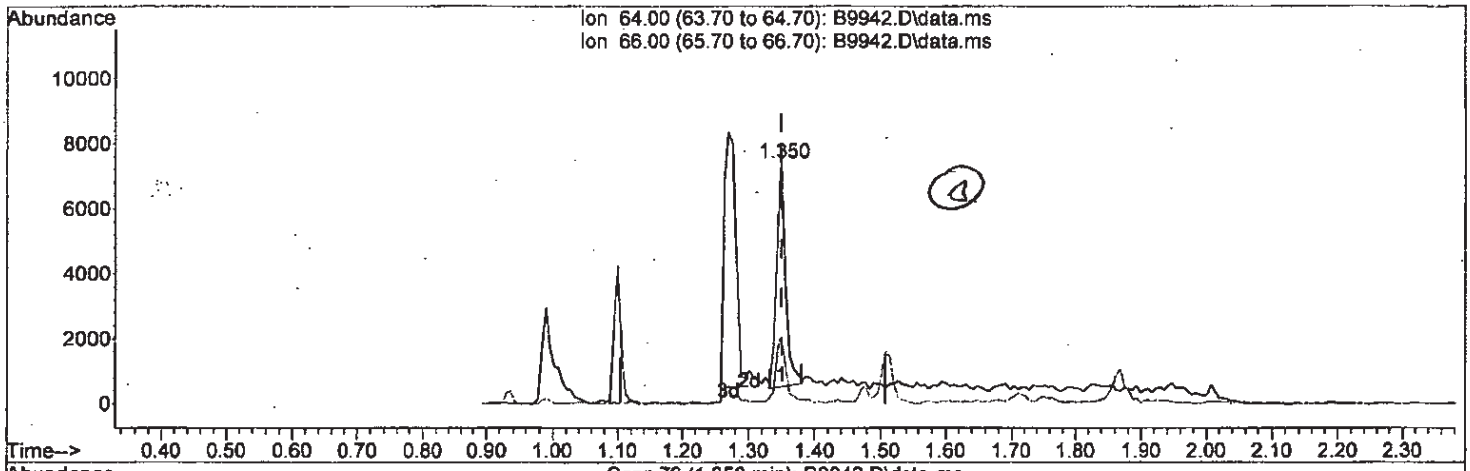
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
96)	n-Propylbenzene	12.311	91	44938m	5.35	ug/L		
97)	2-Chlorotoluene	12.366	91	27581	5.62	ug/L		98
98)	3-Chlorotoluene	12.439	91	27747m	43.09	ug/L		
99)	4-Chlorotoluene	12.488	91	31579	5.59	ug/L		95
100)	1,3,5-Trimethylbenzene	12.513	105	31750	5.72	ug/L		99
101)	tert-Butylbenzene	12.854	119	26720	5.53	ug/L		96
102)	1,2,4-Trimethylbenzene	12.903	105	31585	5.59	ug/L		95
103)	3,4-Dichlorobenzotrifl...	13.006	214	7519	11.68	ug/L	#	100
104)	sec-Butylbenzene	13.086	105	39881	5.49	ug/L		98
105)	p-Isopropyltoluene	13.250	119	32256	5.40	ug/L		96
106)	1,3-Dclbenz	13.159	146	17957	4.99	ug/L		97
107)	1,4-Dclbenz	13.256	146	18614	4.86	ug/L		95
108)	2,4-Dichlorobenzotrifl...	13.366	214	7140	11.09	ug/L	#	100
109)	2,5-Dichlorobenzotrifl...	13.421	214	7797	12.11	ug/L	#	100
111)	n-Butylbenzene	13.677	91	30454	5.45	ug/L		98
112)	1,2-Dclbenz	13.634	146	18255	5.07	ug/L		96
113)	1,2-Dibromo-3-chloropr...	14.439	157	2217	5.63	ug/L	#	85
114)	Trielution Dichlorotol...	14.604	125	43797	68.01	ug/L	#	28
115)	1,3,5-Trichlorobenzene	14.665	180	11761	18.26	ug/L	#	100
116)	Coelution Dichlorotoluene	15.012	125	31575	49.03	ug/L	#	100
117)	1,2,4-Tcbenzene	15.280	180	10220	5.34	ug/L		92
118)	Hexachlorobt	15.481	225	3906	5.15	ug/L		95
119)	Naphthalen	15.512	128	26443	5.92	ug/L		98
120)	1,2,3-Tclbenzene	15.762	180	7975	5.12	ug/L		99
121)	2,4,5-Trichlorotoluene	16.530	159	3636	5.65	ug/L	#	100
122)	2,3,6-Trichlorotoluene	16.634	159	3426	5.32	ug/L	#	100

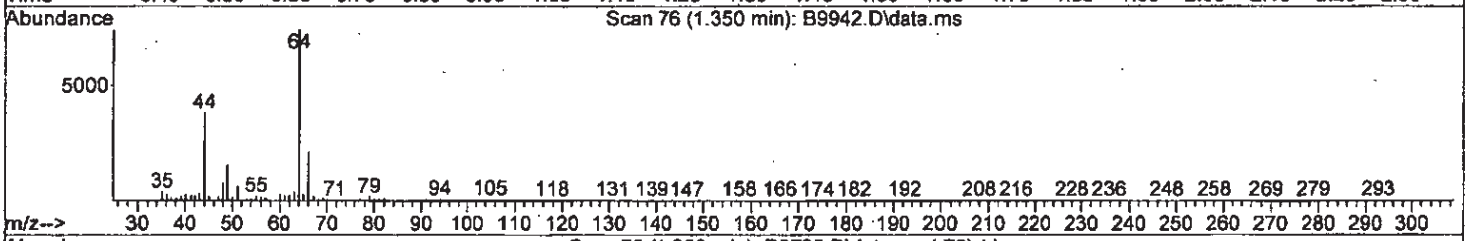
(#) = qualifier out of range (m) = manual integration (+) = signals summed

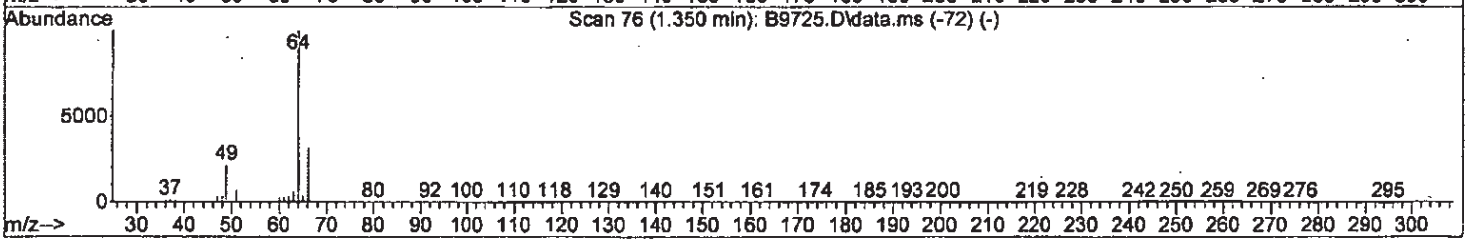
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 06:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9942.D\data.ms

(7) Chloroethane (P)

1.350min (+0.000) 4.37 ug/L

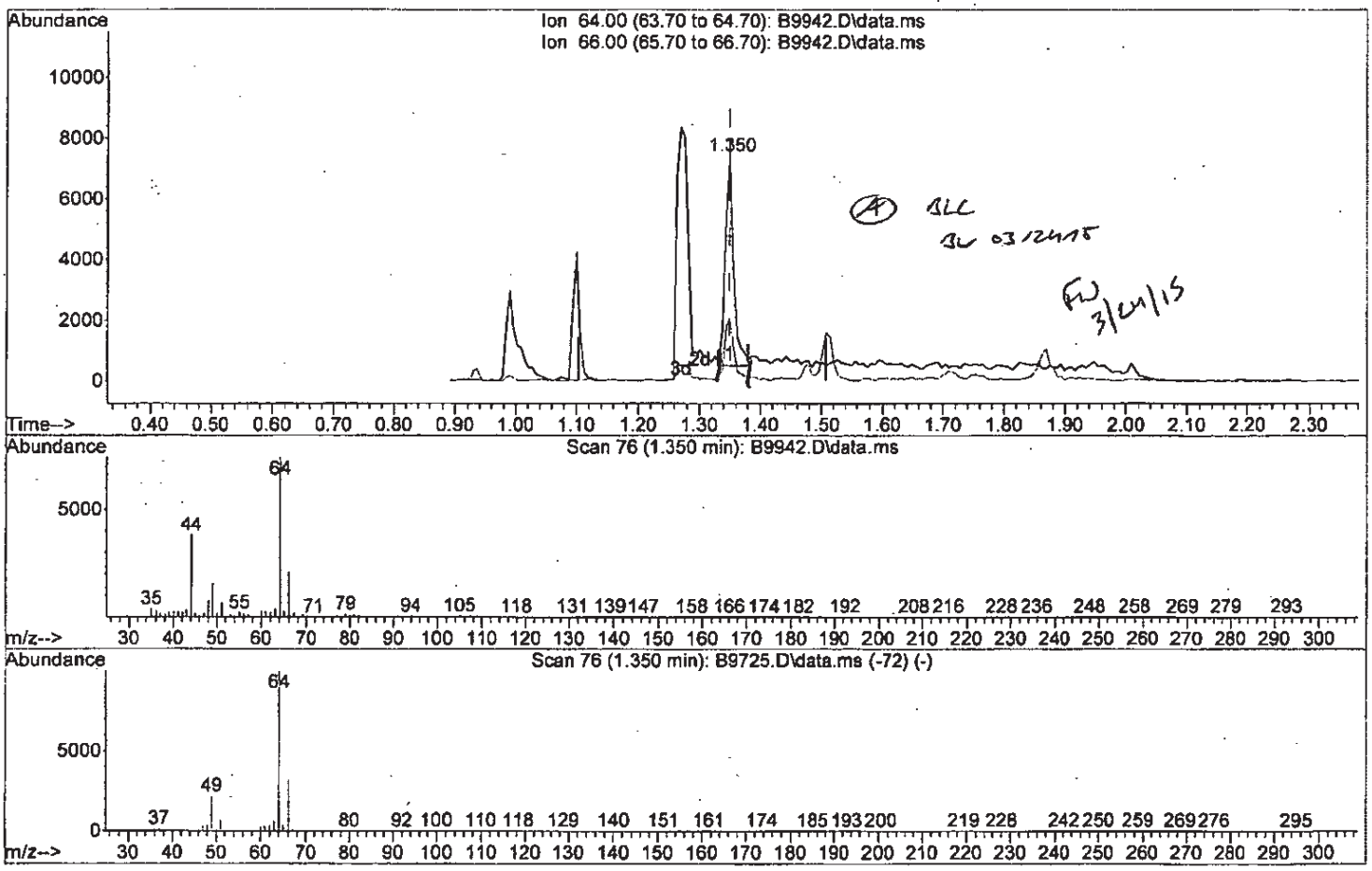
response 6584

Ion	Exp%	Act%
64.00	100	100
66.00	31.70	28.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 06:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9942.D\data.ms

(7) Chloroethane (P)

1.350min (+0.000) 4.43 ug/L m

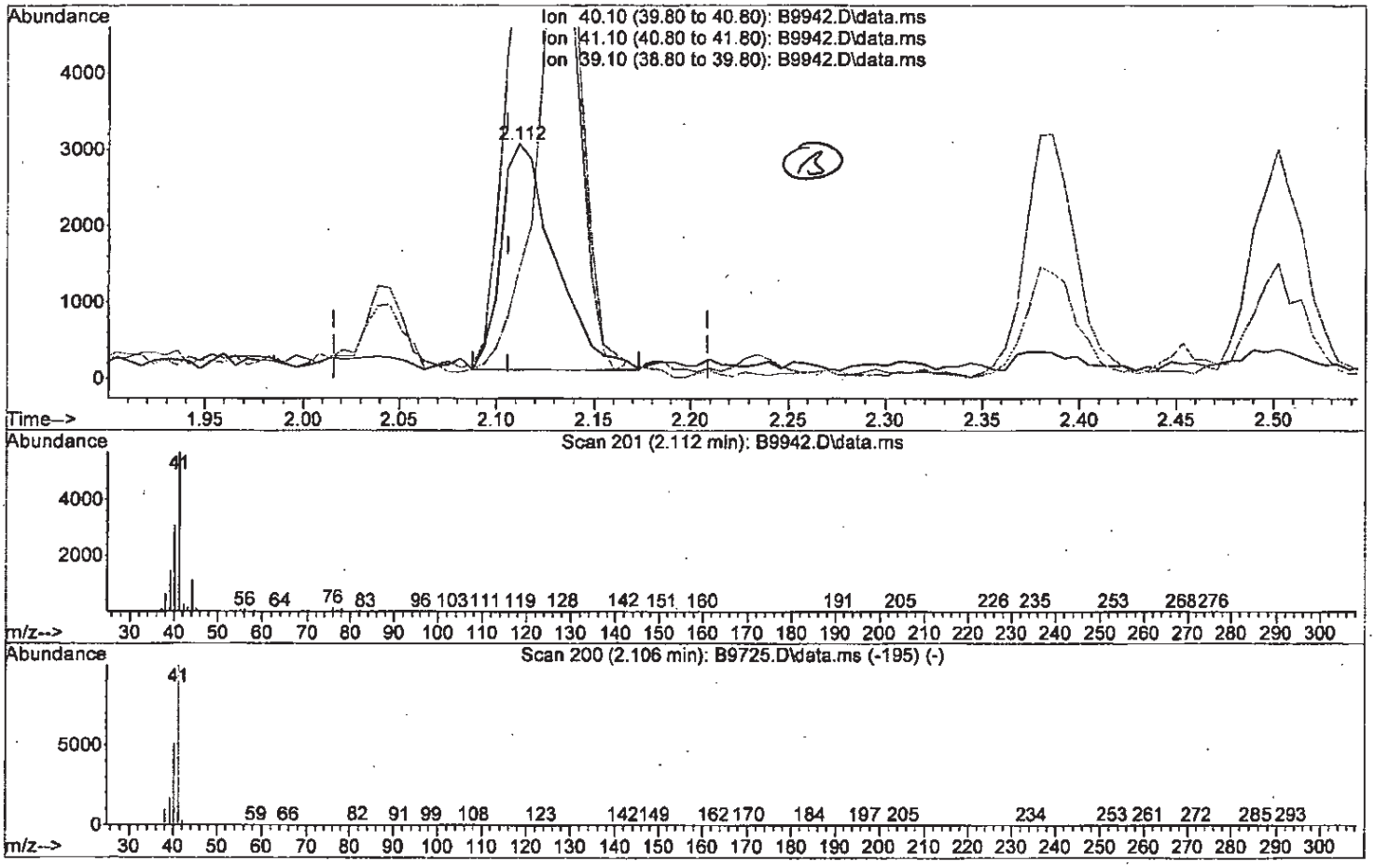
response 6676

Ion	Exp%	Act%
64.00	100	100
66.00	31.70	28.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 06:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9942.D\data.ms

(20) Acetonitrile

2.112min (+0.006) 30.64 ug/L

response 5642

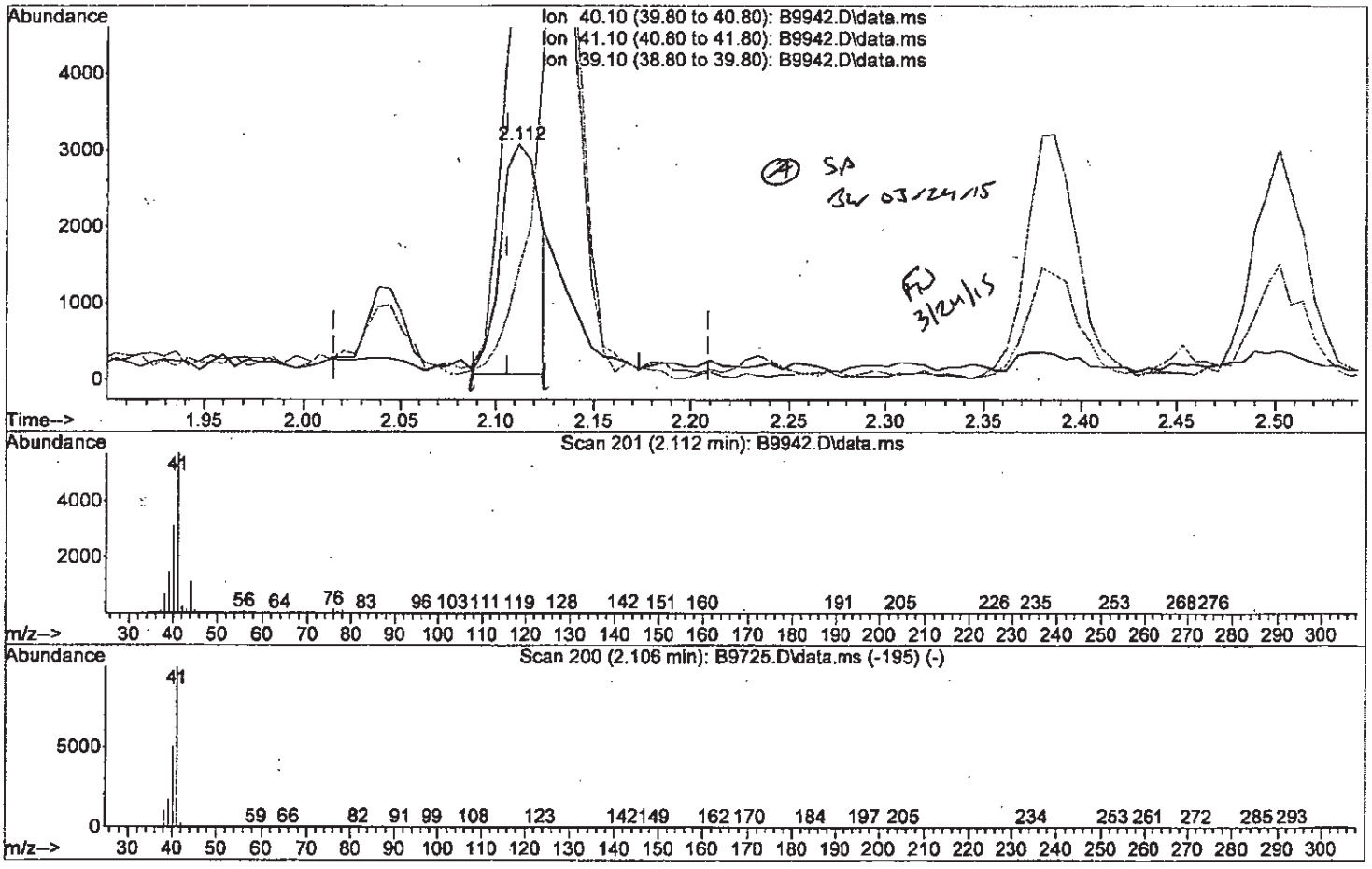
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	185.16
39.10	34.40	47.07
0.00	0.00	0.00

00359

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 06:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9942.D\data.ms

(20) Acetonitrile

2.112min (+0.006) 23.21 ug/L m

response 4273

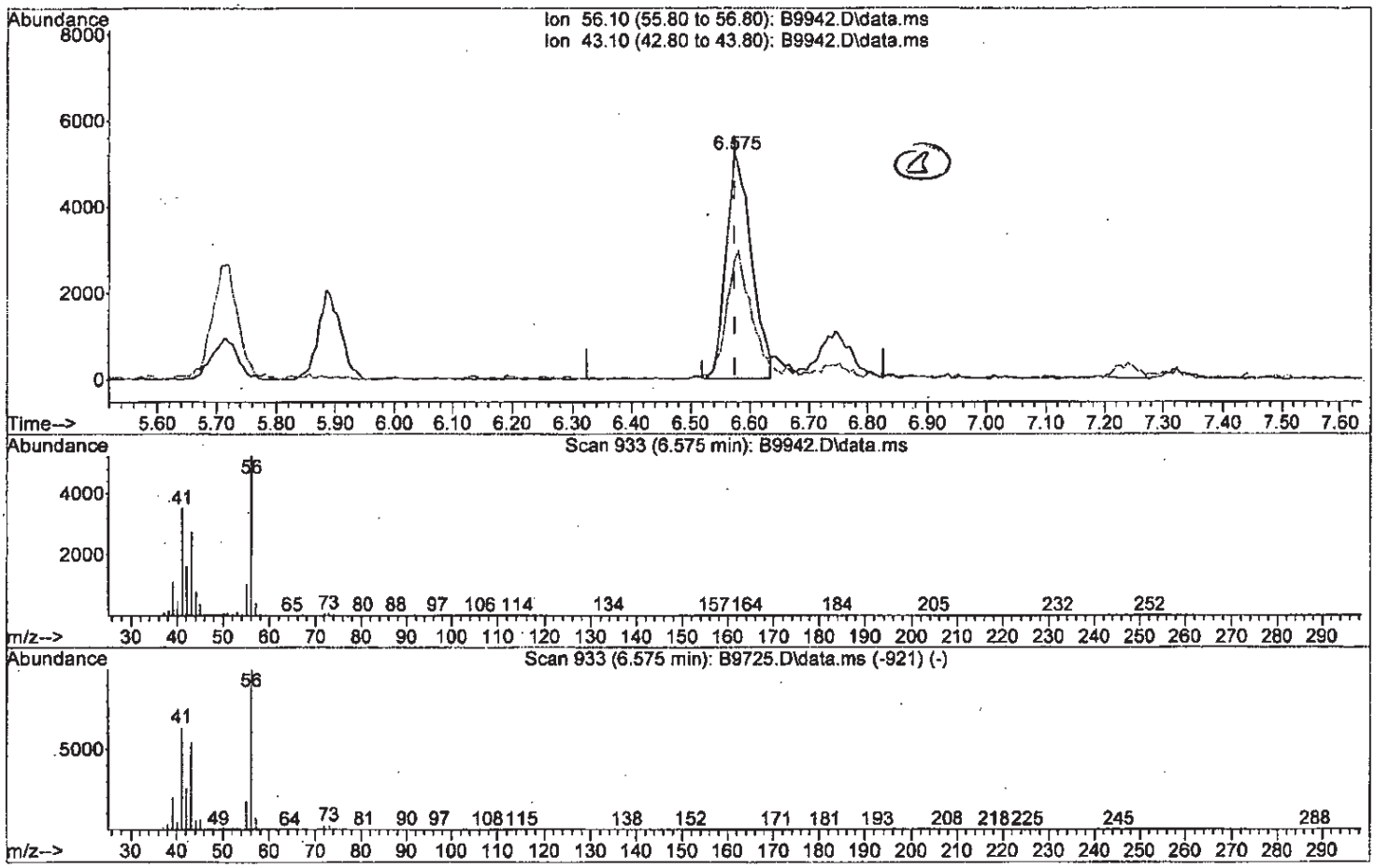
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	185.16
39.10	34.40	47.07
0.00	0.00	0.00

00360

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 06:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9942.D\data.ms

(53) 1-Butanol

6.575min (+0.000) 306.37 ug/L

response 15488

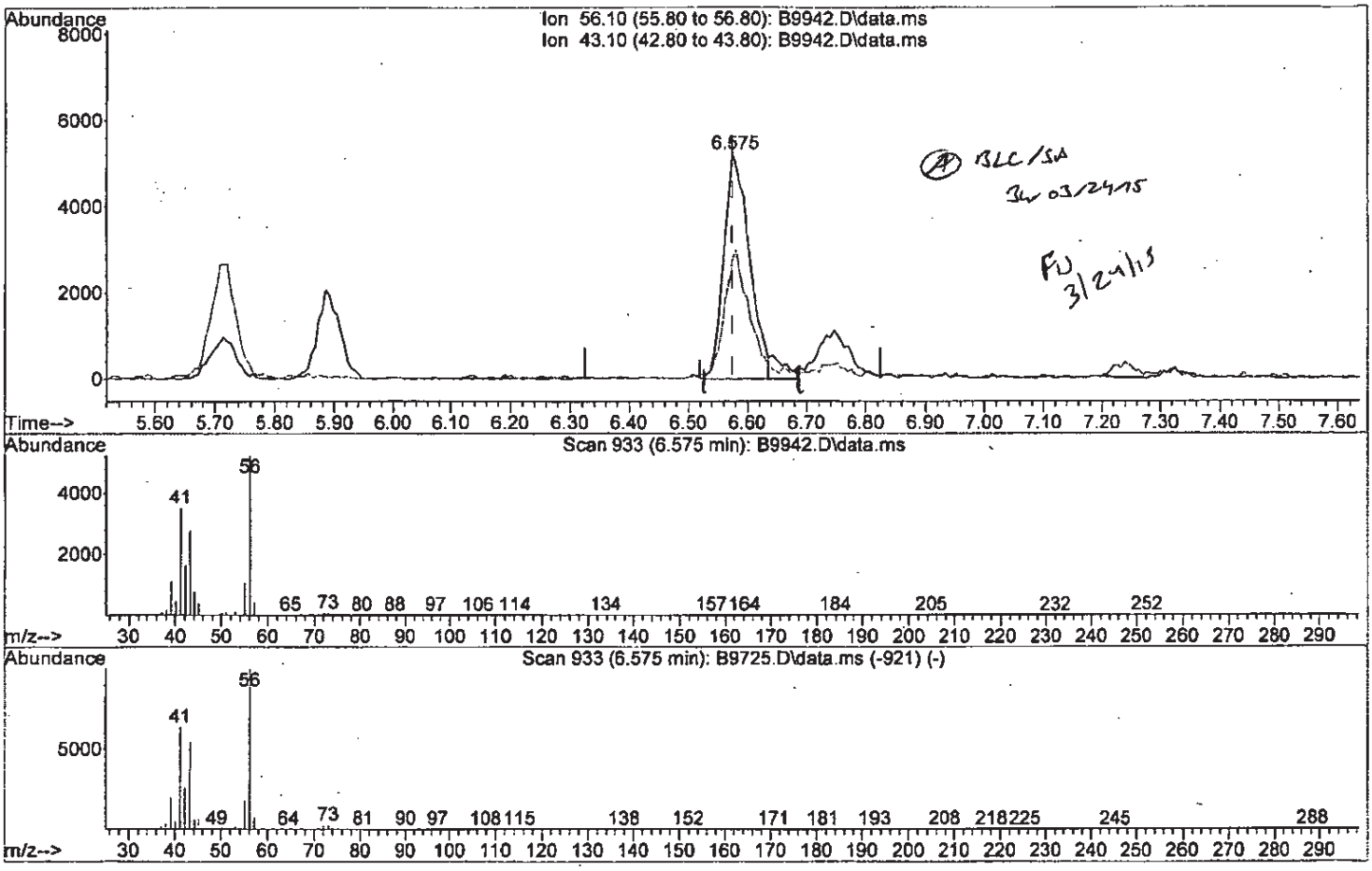
Ion	Exp%	Act%
56.10	100	100
43.10	54.50	52.84
0.00	0.00	0.00
0.00	0.00	0.00

00361

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 06:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



BLC/SA 3/24/15

FU 3/24/15

TIC: B9942.D\data.ms

(53) 1-Butanol

6.575min (+0.000) 328.13 ug/L m

response 16588

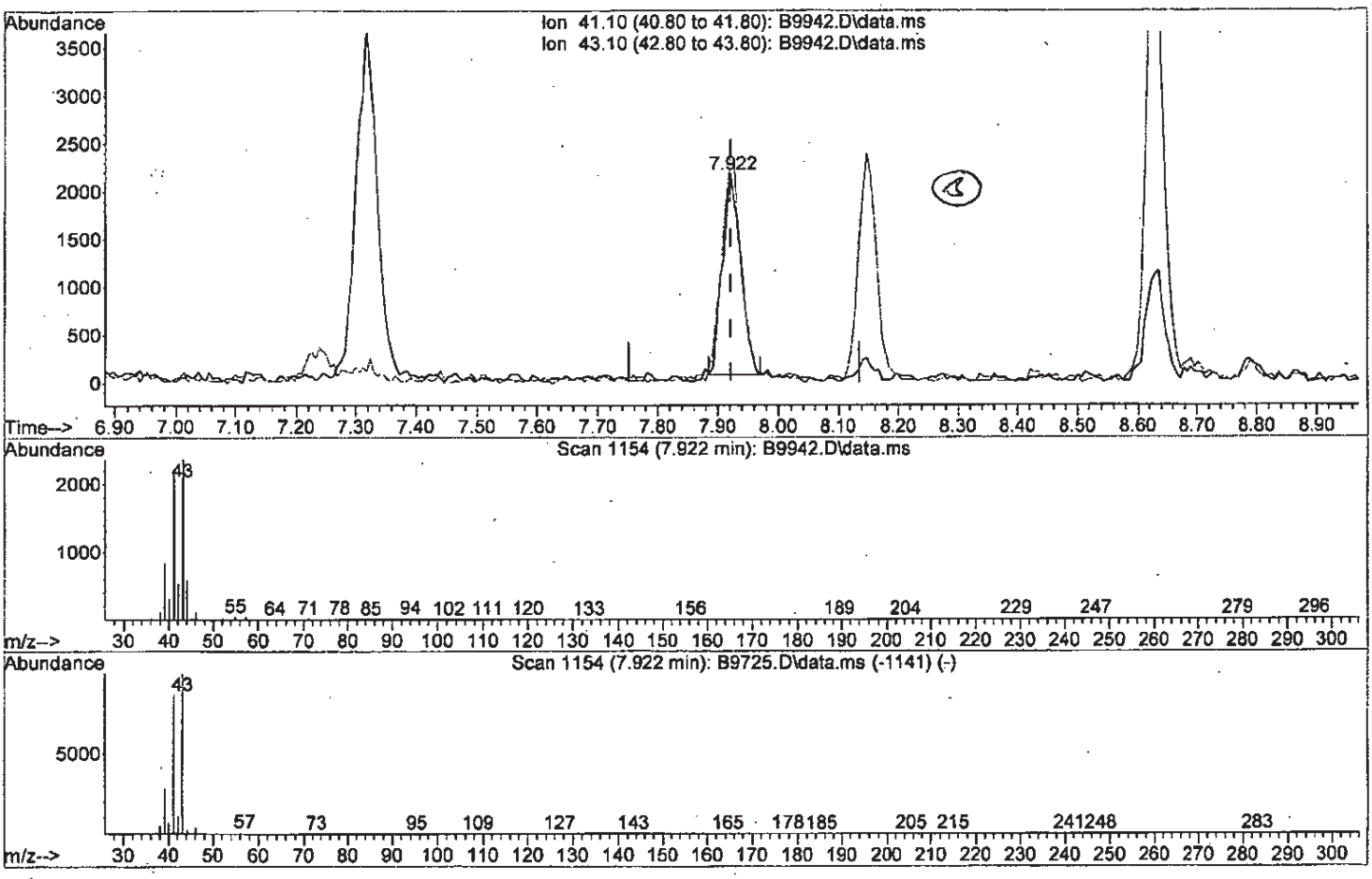
Ion	Exp%	Act%
56.10	100	100
43.10	54.50	52.84
0.00	0.00	0.00
0.00	0.00	0.00

00362

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 06:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9942.D\data.ms

(61) 2-Nitropropane

7.922min (+0.000) 11.22 ug/L

response 4448

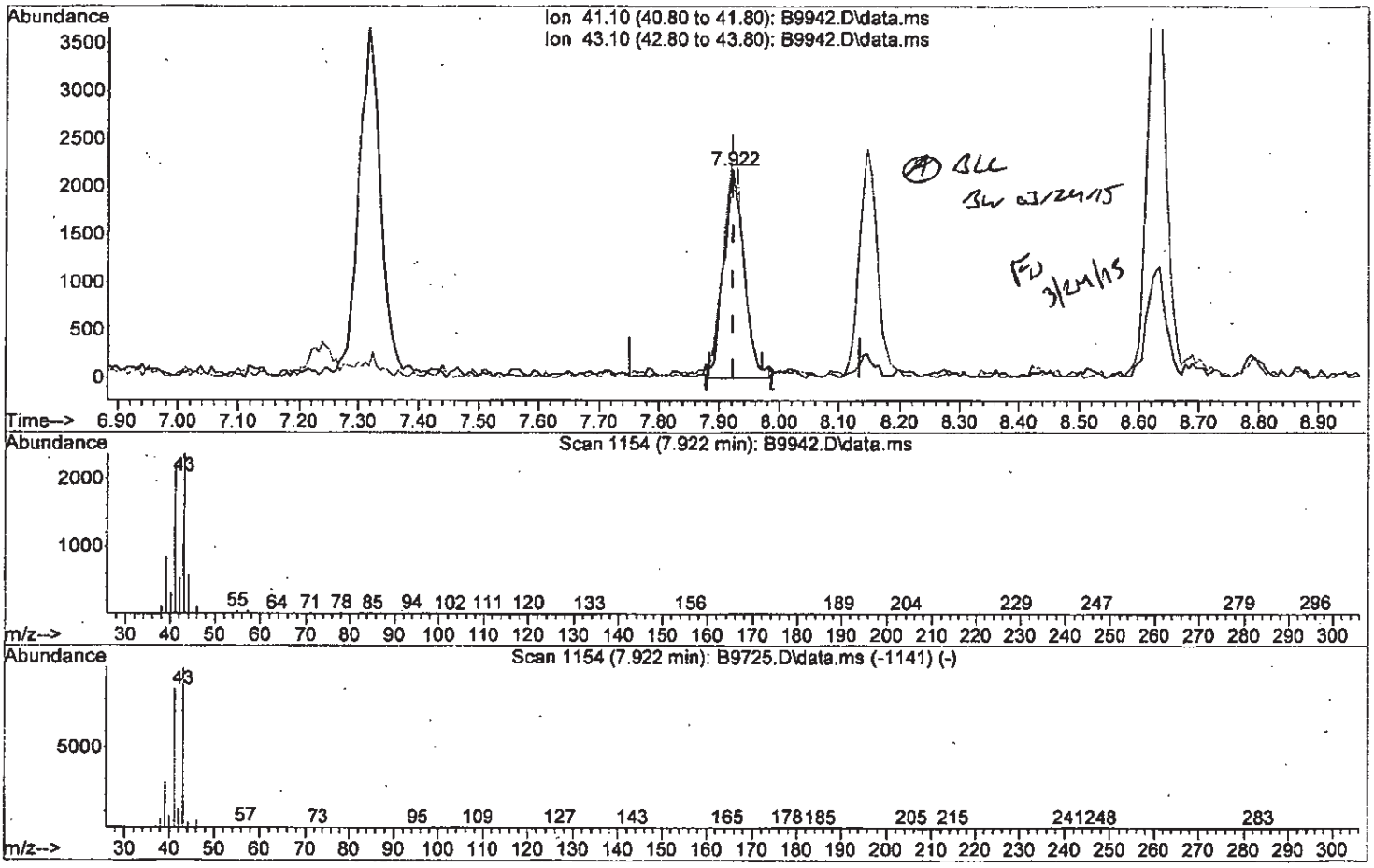
Ion	Exp%	Act%
41.10	100	100
43.10	115.50	108.41
0.00	0.00	0.00
0.00	0.00	0.00

00363

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 06:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9942.D\data.ms

(61) 2-Nitropropane

7.922min (+0.000) 12.58 ug/L m

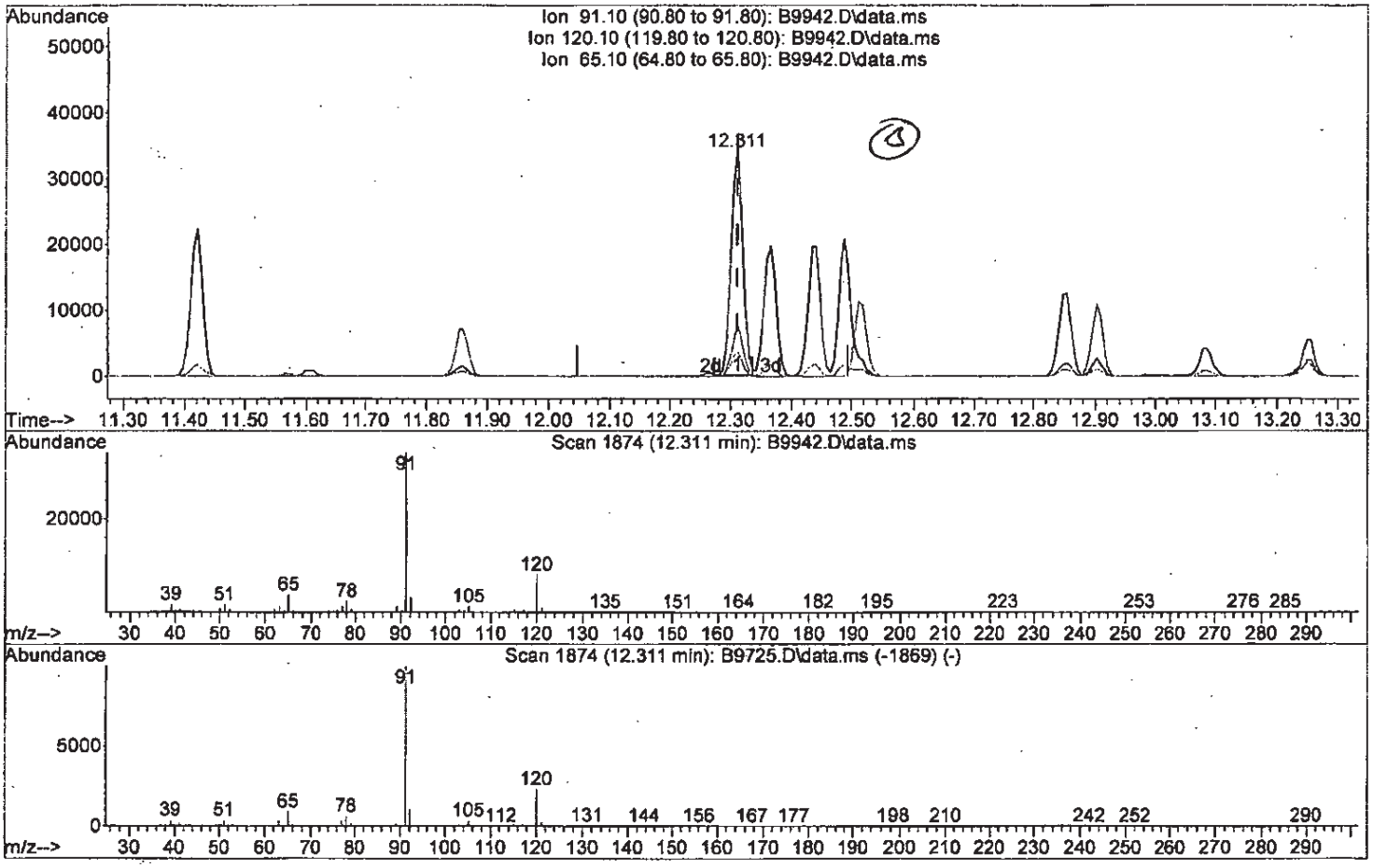
response 4987

Ion	Exp%	Act%
41.10	100	100
43.10	115.50	108.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 06:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9942.D\data.ms

(96) n-Propylbenzene

12.311min (+0.000) 5.28 ug/L

response 44376

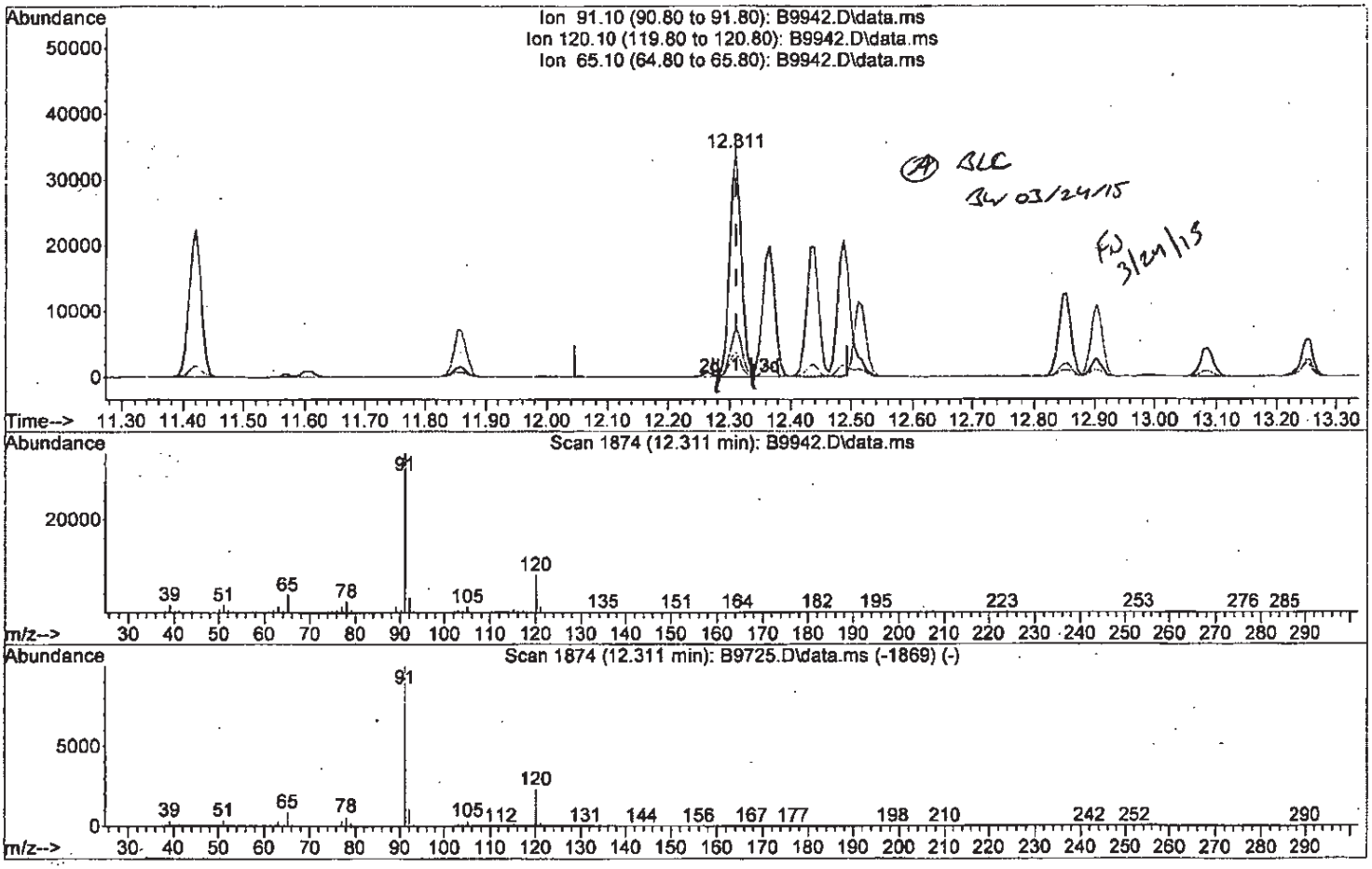
Ion	Exp%	Act%
91.10	100	100
120.10	22.70	23.37
65.10	8.70	10.92
0.00	0.00	0.00

00365

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 06:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9942.D\data.ms

(96) n-Propylbenzene

12.311min (+0.000) 5.35 ug/L m

response 44938

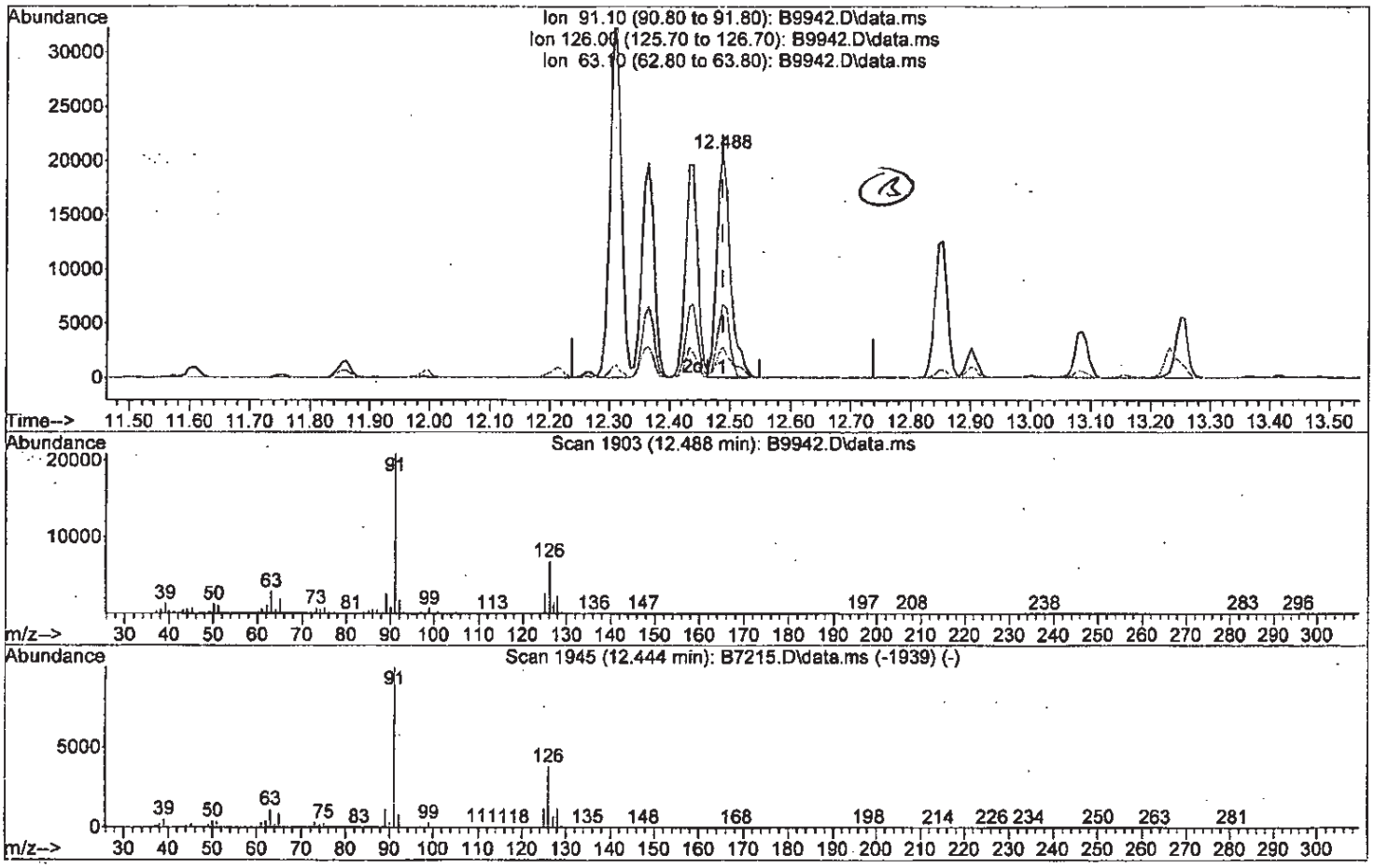
Ion	Exp%	Act%
91.10	100	100
120.10	22.70	23.37
65.10	8.70	10.92
0.00	0.00	0.00

00366

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 06:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9942.D\data.ms

(98) 3-Chlorotoluene

12.488min (+0.000) 49.04 ug/L

response 31579

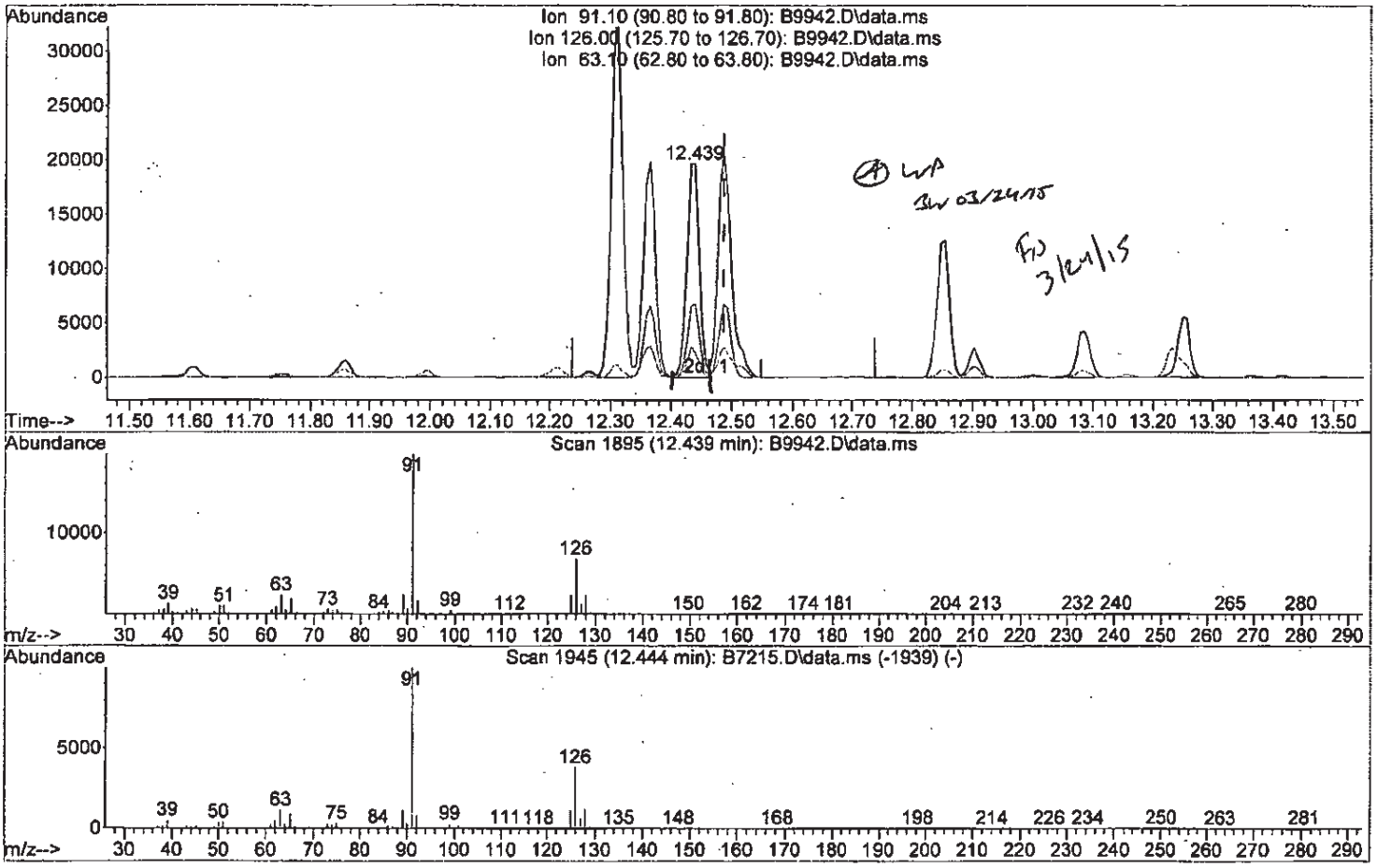
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	32.72
63.10	11.90	13.66
0.00	0.00	0.00

00367

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 06:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9942.D\data.ms

(98) 3-Chlorotoluene

12.439min (-0.049) 43.09 ug/L m

response 27747

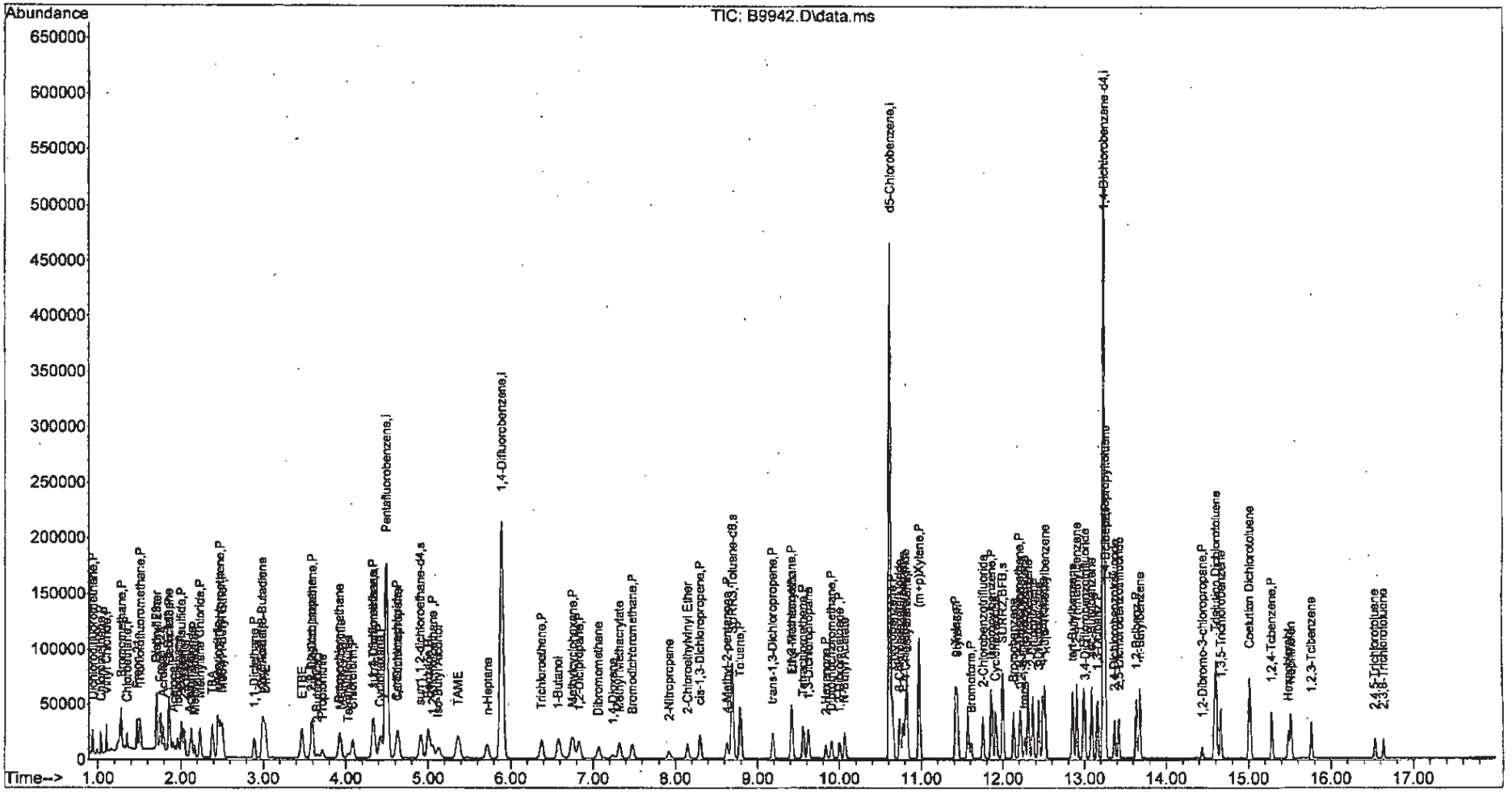
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	34.51
63.10	11.90	11.72
0.00	0.00	0.00

00368

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9942.D
Acq On : 20 Mar 2015 5:23 pm
Operator : B WOJTASIEWICZ
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 23 07:00:03 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



99500

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9943.D
Acq On : 20 Mar 2015 5:47 pm
Operator : B WOJTASIEWICZ
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 23 07:13:37 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

BL 03/24/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.496	168	159559	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.892	114	260444	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.616	117	227577	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	109874	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.337	113	29630	17.98	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 35.96%#			
48) surr1,1,2-dichloroetha...	4.910	65	37706	21.53	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 43.06%#			
65) SURR3,Toluene-d8	8.690	98	113150	18.52	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 37.04%#			
70) SURR2,BFB	11.994	95	44069	20.36	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 40.72%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.935	85	31774	17.92	ug/L	98
4) Chloromethane	1.039	50	33516	16.77	ug/L	99
5) Vinyl Chloride	1.100	62	35162	14.84	ug/L	99
6) Bromomethane	1.283	94	22099	12.60	ug/L	100
7) Chloroethane	1.350	64	22862	15.81	ug/L	95
8) Freon 21	1.478	67	68748	19.30	ug/L	100
9) Trichlorofluoromethane	1.515	101	42839	15.86	ug/L	96
10) Diethyl Ether	1.710	59	30868	18.53	ug/L	99
11) Freon 123a	1.710	67	42372	18.84	ug/L	98
12) Freon 123	1.758	83	51034	18.95	ug/L	97
13) Acrolein	1.789	56	42092	88.38	ug/L	93
14) 1,1-Diclethene	1.862	96	26598	14.63	ug/L	98
15) Freon 113	1.868	101	22568	14.21	ug/L	95
16) Acetone	1.905	43	15172	16.97	ug/L	94
17) 2-Propanol	2.039	45	74276	506.76	ug/L	95
18) Iodomethane	1.966	142	29775	17.73	ug/L	100
19) Carbon Disulfide	2.014	76	78487	17.57	ug/L	97
20) Acetonitrile	2.112	40	18944m	107.22	ug/L	
21) Allyl Chloride	2.136	76	16528	16.97	ug/L #	86
22) Methyl Acetate	2.167	43	33439	19.99	ug/L	93
23) Methylene Chloride	2.234	84	33646	18.49	ug/L	93
24) TBA	2.380	59	125159	845.06	ug/L	78
25) Acrylonitrile	2.453	53	91082	112.72	ug/L	99
26) Methyl-t-Butyl Ether	2.502	73	112236	26.73	ug/L	96
27) trans-1,2-Dichloroethene	2.478	96	29448	18.00	ug/L	96
28) 1,1-Diclethane	2.892	63	51829	19.03	ug/L	98
29) Vinyl Acetate	2.984	86	9270	27.27	ug/L #	51
30) DIPE	3.020	45	97293	23.50	ug/L	97
31) 2-Chloro-1,3-Butadiene	2.996	53	47641	19.94	ug/L	92
32) ETBE	3.465	59	105274	29.20	ug/L	98
33) 2,2-Dichloropropane	3.587	77	39984	27.33	ug/L	98
34) cis-1,2-Dichloroethene	3.593	96	35058	18.33	ug/L	94
35) 2-Butanone	3.654	43	21820	24.70	ug/L	99
36) Propionitrile	3.709	54	36646	121.04	ug/L	98

00370

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9943.D
Acq On : 20 Mar 2015 5:47 pm
Operator : B WOJTASIEWICZ
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 23 07:13:37 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	3.923	130	23343	19.59	ug/L	#	81
38) Methacrylonitrile	3.935	67	20103	22.49	ug/L		94
39) Tetrahydrofuran	4.020	42	13886	26.84	ug/L		95
40) Chloroform	4.081	83	56481	19.64	ug/L		96
41) 1,1,1-Trichloroethane	4.337	97	41787	19.96	ug/L		98
42) TAME	5.355	73	102533	31.02	ug/L		95
44) Cyclohexane	4.423	41	29104	22.17	ug/L		92
46) Carbontetrachloride	4.618	121	9442	19.13	ug/L		79
47) 1,1-Dichloropropene	4.636	75	34608	16.16	ug/L		96
49) Benzene	5.002	78	119065	16.83	ug/L		97
50) 1,2-Dichloroethane	5.057	62	51470	21.81	ug/L		98
51) Iso-Butyl Alcohol	5.117	43	45692	670.68	ug/L		97
52) n-Heptane	5.715	43	16208m	11.39	ug/L		
53) 1-Butanol	6.575	56	77568	1599.76	ug/L		97
54) Trichloroethene	6.373	130	29006	15.30	ug/L		95
55) Methylcyclohexane	6.751	55	42560	22.15	ug/L		89
56) 1,2-Diclpropane	6.831	63	31351	18.23	ug/L		93
57) Dibromomethane	7.062	93	24057	19.64	ug/L		94
58) 1,4-Dioxane	7.227	88	14515	474.34	ug/L		77
59) Methyl Methacrylate	7.318	69	32367	24.42	ug/L		86
60) Bromodichloromethane	7.477	83	43653	20.82	ug/L		97
61) 2-Nitropropane	7.922	41	22360	58.83	ug/L		99
62) 2-Chloroethylvinyl Ether	8.147	63	26780	25.93	ug/L		93
63) cis-1,3-Dichloropropene	8.300	75	52143	23.14	ug/L		97
64) 4-Methyl-2-pentanone	8.623	43	42647	25.94	ug/L		100
66) Toluene	8.794	91	124616	16.49	ug/L		99
67) trans-1,3-Dichloropropene	9.184	75	50587	27.43	ug/L		97
68) Ethyl Methacrylate	9.422	69	55337	25.33	ug/L		92
69) 1,1,2-Trichloroethane	9.415	97	35334	19.32	ug/L		93
72) Tetrachloroethene	9.556	164	19317	14.12	ug/L		92
73) 2-Hexanone	9.830	43	32032	27.52	ug/L		97
74) 1,3-Dichloropropane	9.623	76	59898	20.58	ug/L		93
75) Dibromochloromethane	9.903	129	33306	20.47	ug/L		99
76) N-Butyl Acetate	10.062	43	66994	29.98	ug/L		96
77) 1,2-Dibromoethane	10.001	107	37921	20.75	ug/L		97
78) 3-Chlorobenzotrifluoride	10.738	180	43628	54.35	ug/L	#	100
79) Chlorobenzene	10.647	112	85403	17.22	ug/L		97
80) 4-Chlorobenzotrifluoride	10.805	180	38260	52.03	ug/L	#	100
81) 1,1,1,2-Tetrachloroethane	10.775	131	29431	19.86	ug/L		98
82) Ethylbenzene	10.824	106	41092	16.04	ug/L		99
83) (m+p)Xylene	10.976	106	99386	33.23	ug/L		99
84) o-Xylene	11.421	106	50834	17.39	ug/L		89
85) Styrene	11.439	104	93153	18.43	ug/L		97
86) Bromoform	11.604	173	23223	19.36	ug/L		95
87) 2-Chlorobenzotrifluoride	11.756	180	42507	63.08	ug/L	#	100
88) Isopropylbenzene	11.854	105	113814	15.76	ug/L		96
89) Cyclohexanone	11.909	55	60123	193.96	ug/L		95
90) trans-1,4-Dichloro-2-B...	12.262	53	15155	26.91	ug/L		75
92) 1,1,2,2-Tetrachloroethane	12.201	83	54571	21.57	ug/L		99
93) Bromobenzene	12.128	156	35406	18.82	ug/L		90
95) 1,2,3-Trichloropropane	12.220	110	16459	22.20	ug/L	#	90

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9943.D
Acq On : 20 Mar 2015 5:47 pm
Operator : B WOJTASIEWICZ
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 23 07:13:37 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

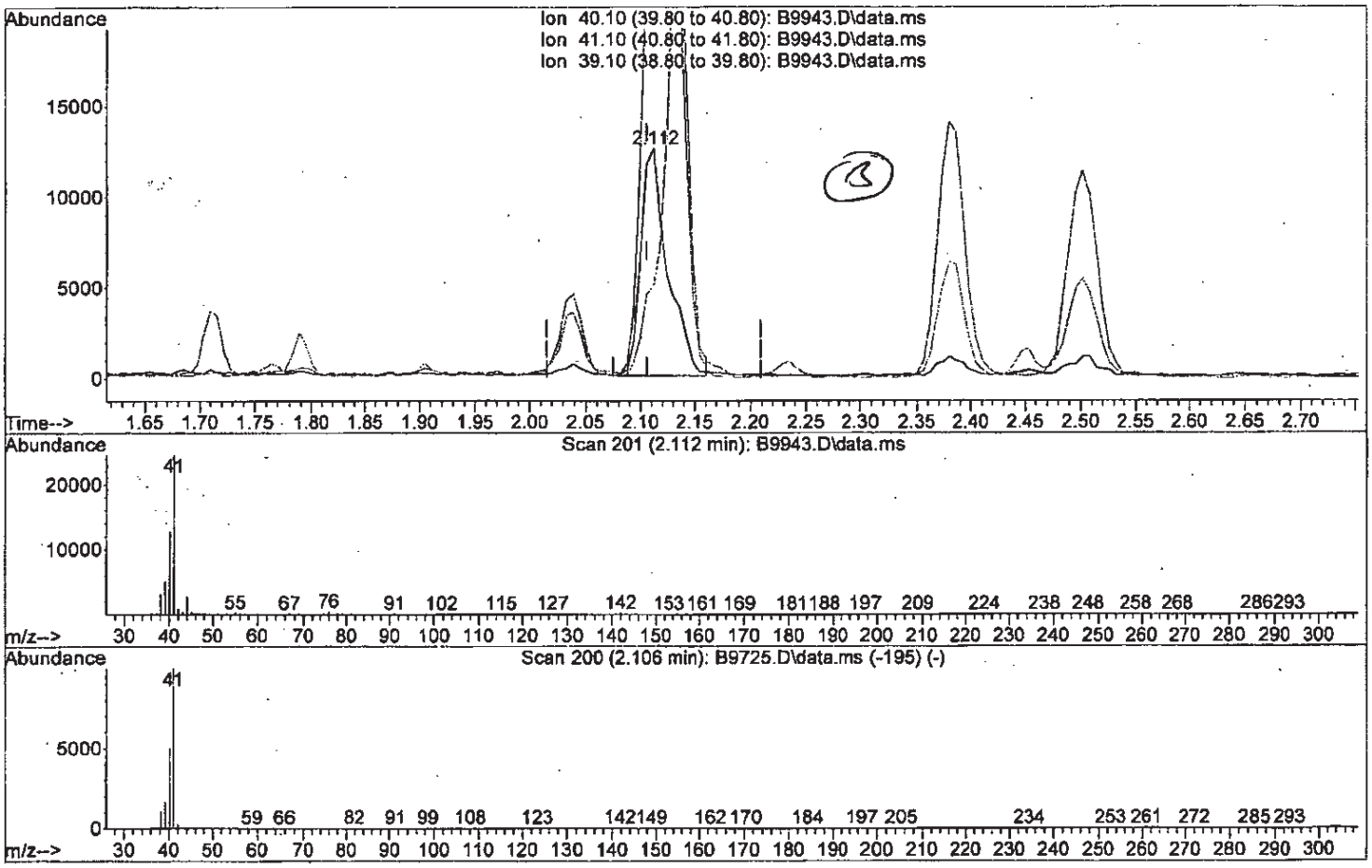
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
96)	n-Propylbenzene	12.311	91	130584m	16.14	ug/L		
97)	2-Chlorotoluene	12.366	91	91073	19.28	ug/L		97
98)	3-Chlorotoluene	12.433	91	109829m	177.10	ug/L		
99)	4-Chlorotoluene	12.488	91	106090	19.50	ug/L		95
100)	1,3,5-Trimethylbenzene	12.512	105	94860	17.73	ug/L		96
101)	tert-Butylbenzene	12.848	119	71321	15.34	ug/L		96
102)	1,2,4-Trimethylbenzene	12.903	105	99028	18.20	ug/L		97
103)	3,4-Dichlorobenzotrifl...	13.006	214	29971	48.33	ug/L	#	100
104)	sec-Butylbenzene	13.085	105	98761	14.13	ug/L		99
105)	p-Isopropyltoluene	13.250	119	82100	14.28	ug/L		94
106)	1,3-Dclbenz	13.159	146	62389	18.00	ug/L		98
107)	1,4-Dclbenz	13.256	146	65265	17.70	ug/L		97
108)	2,4-Dichlorobenzotrifl...	13.366	214	27035	43.59	ug/L	#	100
109)	2,5-Dichlorobenzotrifl...	13.421	214	31245	50.38	ug/L	#	100
111)	n-Butylbenzene	13.677	91	73104	13.59	ug/L		99
112)	1,2-Dclbenz	13.634	146	64708	18.66	ug/L		97
113)	1,2-Dibromo-3-chloropr...	14.433	157	9542	25.17	ug/L	#	81
114)	Trielution Dichlorotol...	14.603	125	172414	278.01	ug/L	#	24
115)	1,3,5-Trichlorobenzene	14.664	180	44134	71.16	ug/L	#	100
116)	Coelution Dichlorotoluene	15.012	125	124553	200.84	ug/L	#	100
117)	1,2,4-Tcbenzene	15.280	180	32706	17.74	ug/L		99
118)	Hexachlorobt	15.481	225	7706	10.54	ug/L		95
119)	Naphthalen	15.512	128	110466	25.69	ug/L		97
120)	1,2,3-Tclbenzene	15.762	180	28534	19.01	ug/L		94
121)	2,4,5-Trichlorotoluene	16.530	159	14878	23.99	ug/L	#	100
122)	2,3,6-Trichlorotoluene	16.634	159	12968	20.91	ug/L	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9943.D
Acq On : 20 Mar 2015 5:47 pm
Operator : B WOJTASIEWICZ
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 23 06:30:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9943.D\data.ms

(20) Acetonitrile

2.112min (+0.006) 120.85 ug/L

response 21353

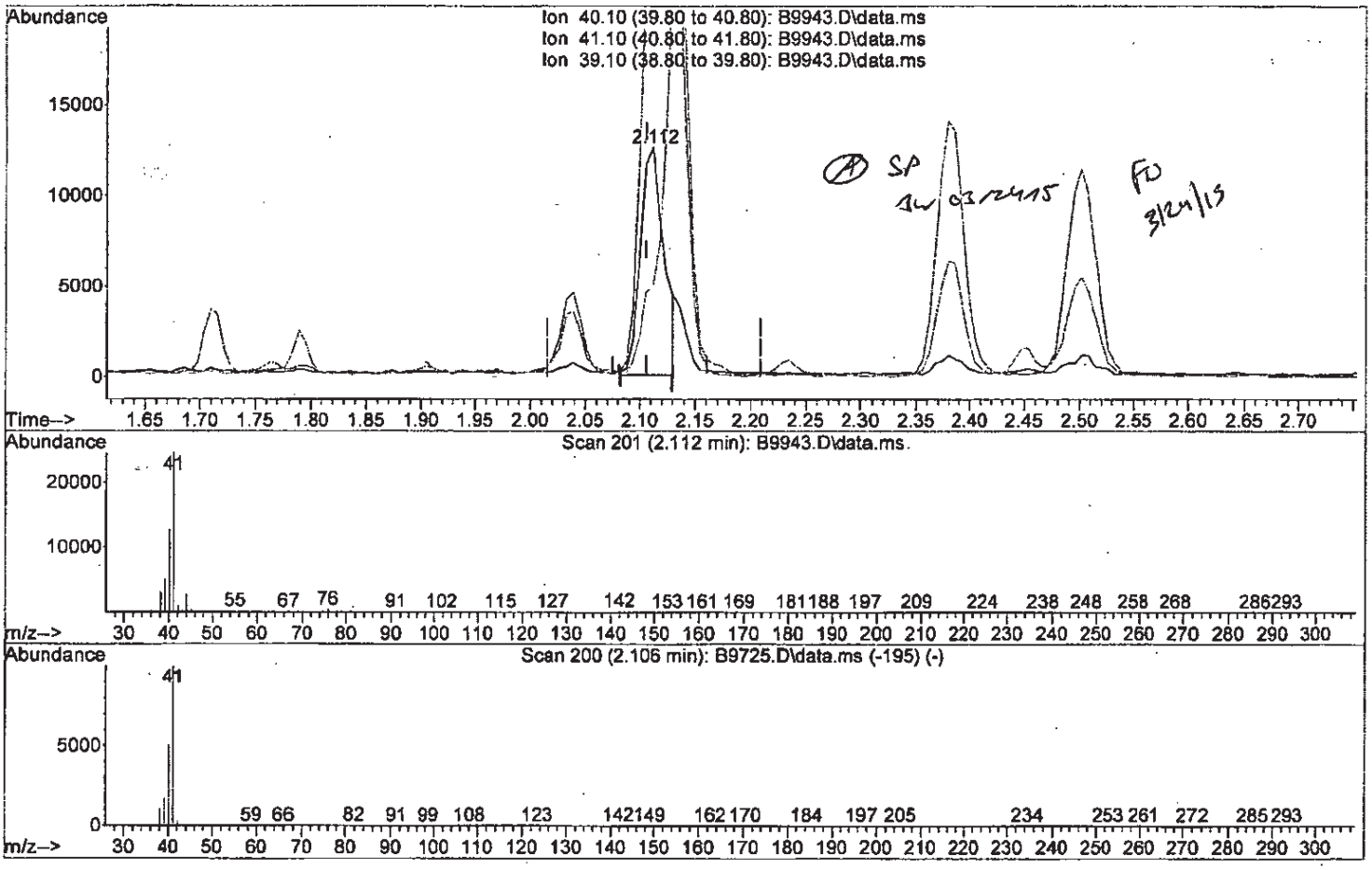
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	193.77
39.10	34.40	40.05
0.00	0.00	0.00

00373

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9943.D
Acq On : 20 Mar 2015 5:47 pm
Operator : B WOJTASIEWICZ
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 23 06:30:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9943.D\data.ms

(20) Acetonitrile

2.112min (+0.006) 107.22 ug/L m

response 18944

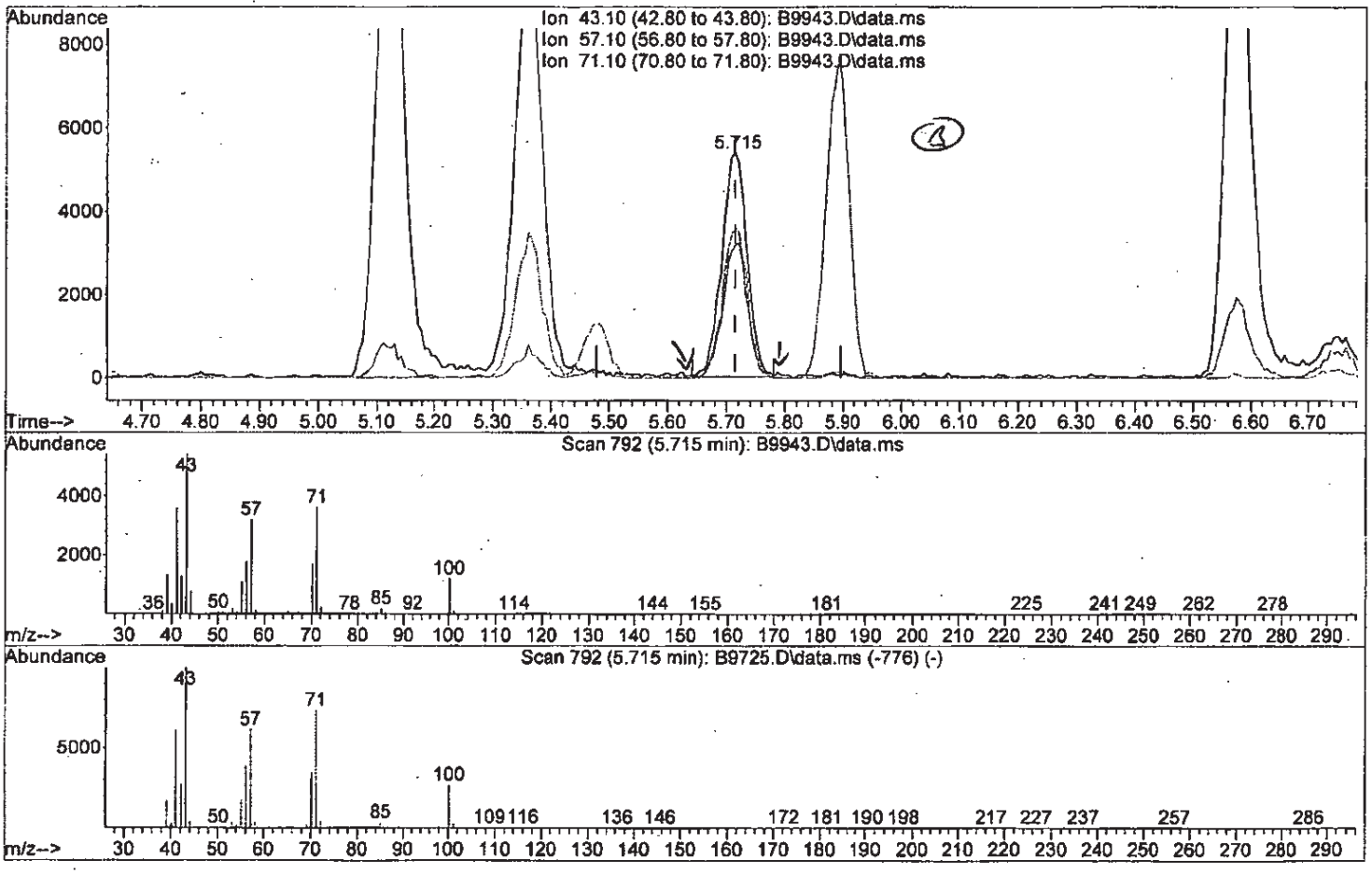
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	193.77
39.10	34.40	40.05
0.00	0.00	0.00

00374

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9943.D
Acq On : 20 Mar 2015 5:47 pm
Operator : B WOJTASIEWICZ
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 23 06:30:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9943.D\data.ms

(52) n-Heptane

5.715min (-0.000) 11.21 ug/L

response 15957

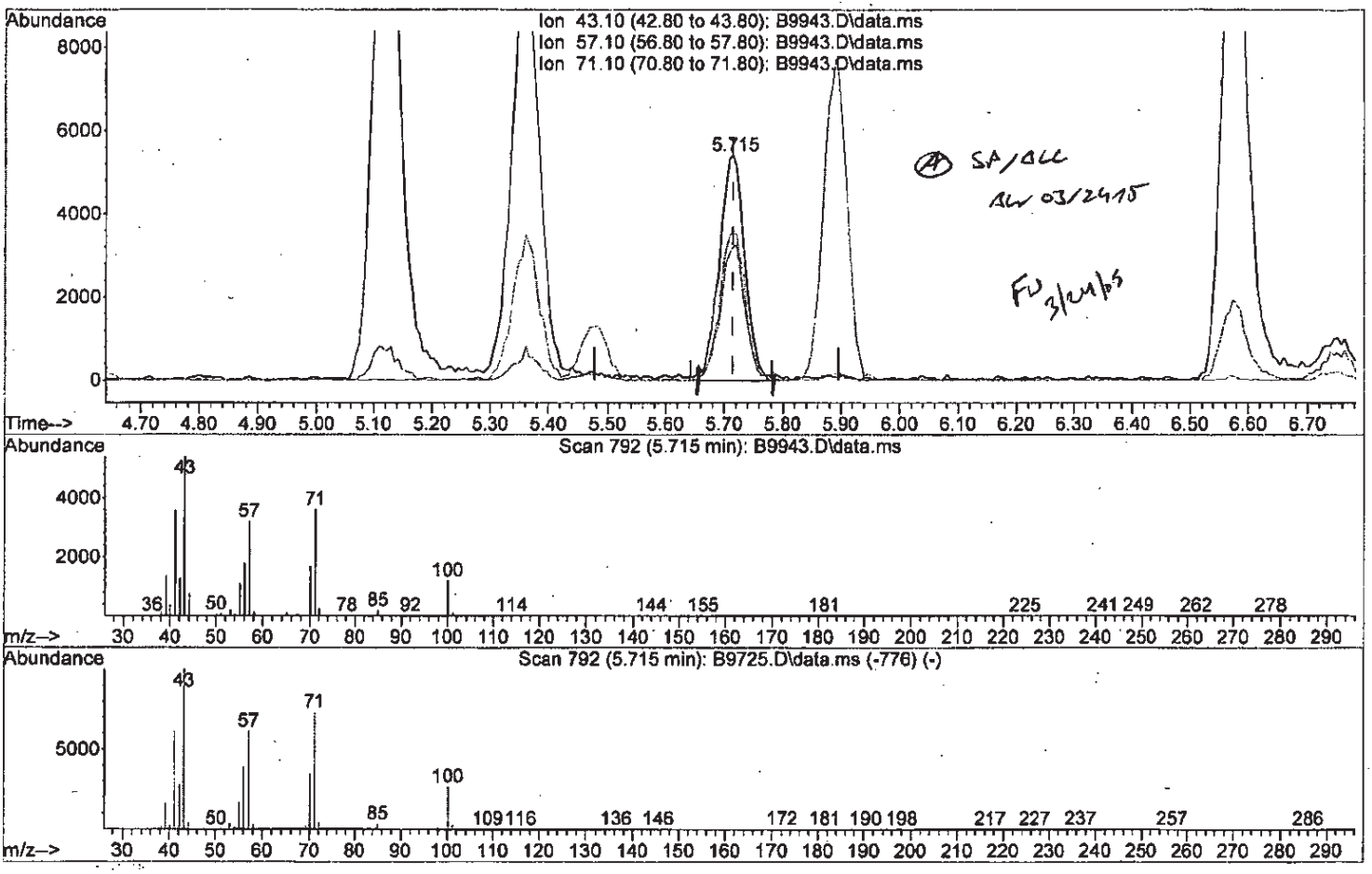
Ion	Exp%	Act%
43.10	100	100
57.10	61.10	59.26
71.10	72.90	66.89
0.00	0.00	0.00

00375

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9943.D
Acq On : 20 Mar 2015 5:47 pm
Operator : B WOJTASIEWICZ
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 23 06:30:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



SA/ALL
ALW 03/24/15

FV 3/24/15

TIC: B9943.D\data.ms

(52) n-Heptane

5.715min (-0.000) 11.39 ug/L m

response 16208

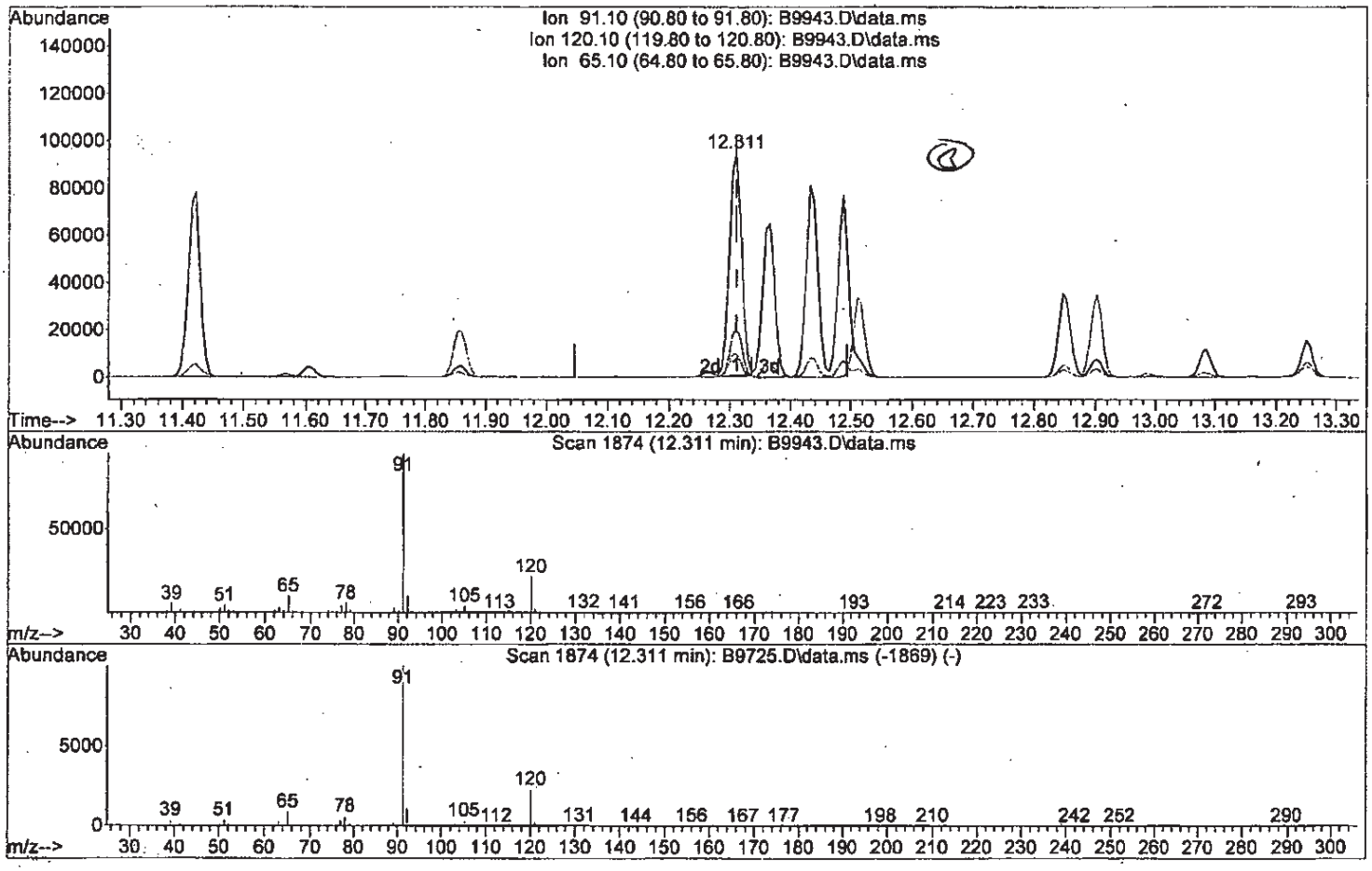
Ion	Exp%	Act%
43.10	100	100
57.10	61.10	59.26
71.10	72.90	66.89
0.00	0.00	0.00

00376

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9943.D
Acq On : 20 Mar 2015 5:47 pm
Operator : B WOJTASIEWICZ
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 23 06:30:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9943.D\data.ms

(96) n-Propylbenzene

12.311min (-0.000) 15.87 ug/L

response 128380

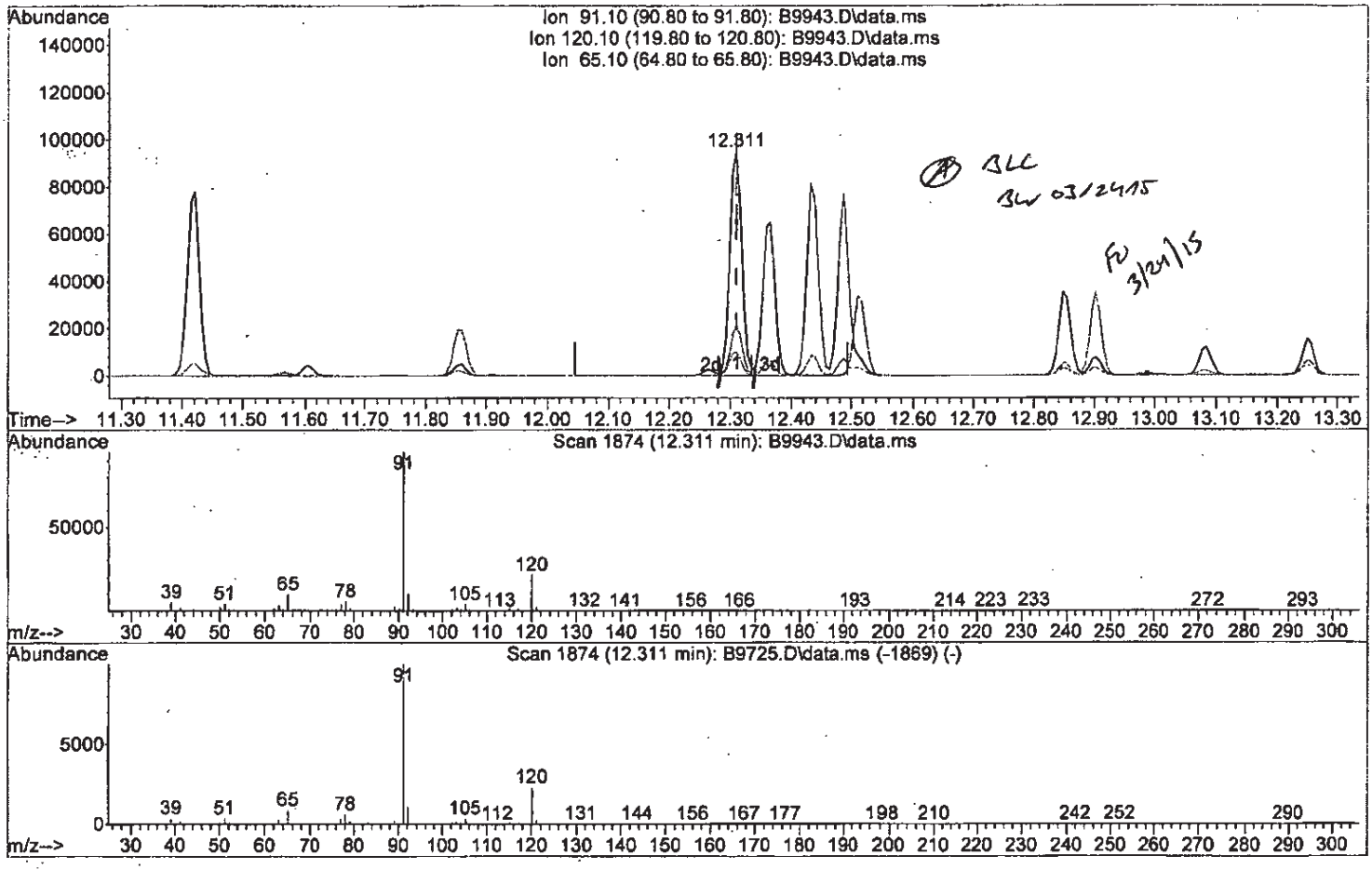
Ion	Exp%	Act%
91.10	100	100
120.10	22.70	22.56
65.10	8.70	10.29
0.00	0.00	0.00

00377

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9943.D
Acq On : 20 Mar 2015 5:47 pm
Operator : B WOJTASIEWICZ
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 23 06:30:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9943.D\data.ms

(96) n-Propylbenzene

12.311min (-0.000) 16.14 ug/L m

response 130584

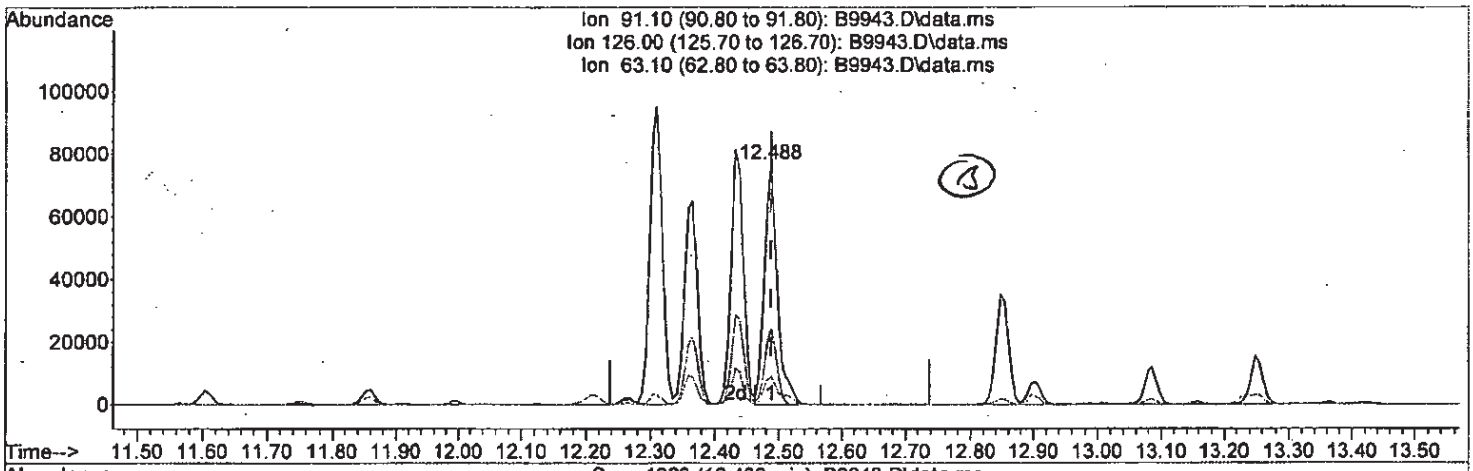
Ion	Exp%	Act%
91.10	100	100
120.10	22.70	22.56
65.10	8.70	10.29
0.00	0.00	0.00

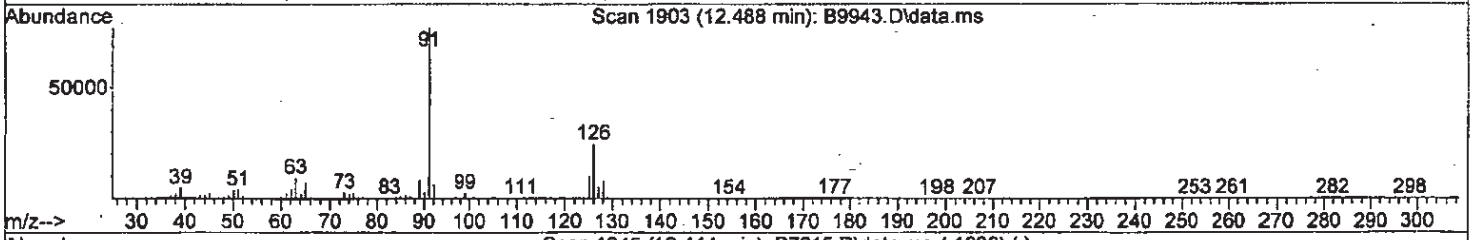
00378

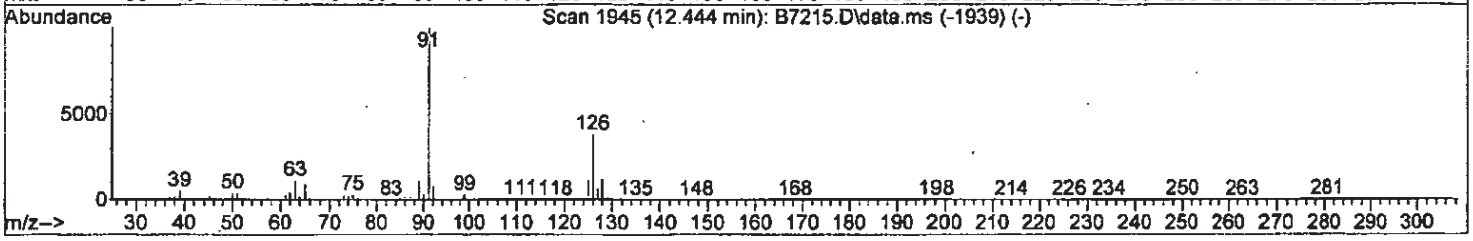
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9943.D
Acq On : 20 Mar 2015 5:47 pm
Operator : B WOJTASIEWICZ
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 23 06:30:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9943.D\data.ms

(98) 3-Chlorotoluene

12.488min (-0.000) 171.07 ug/L

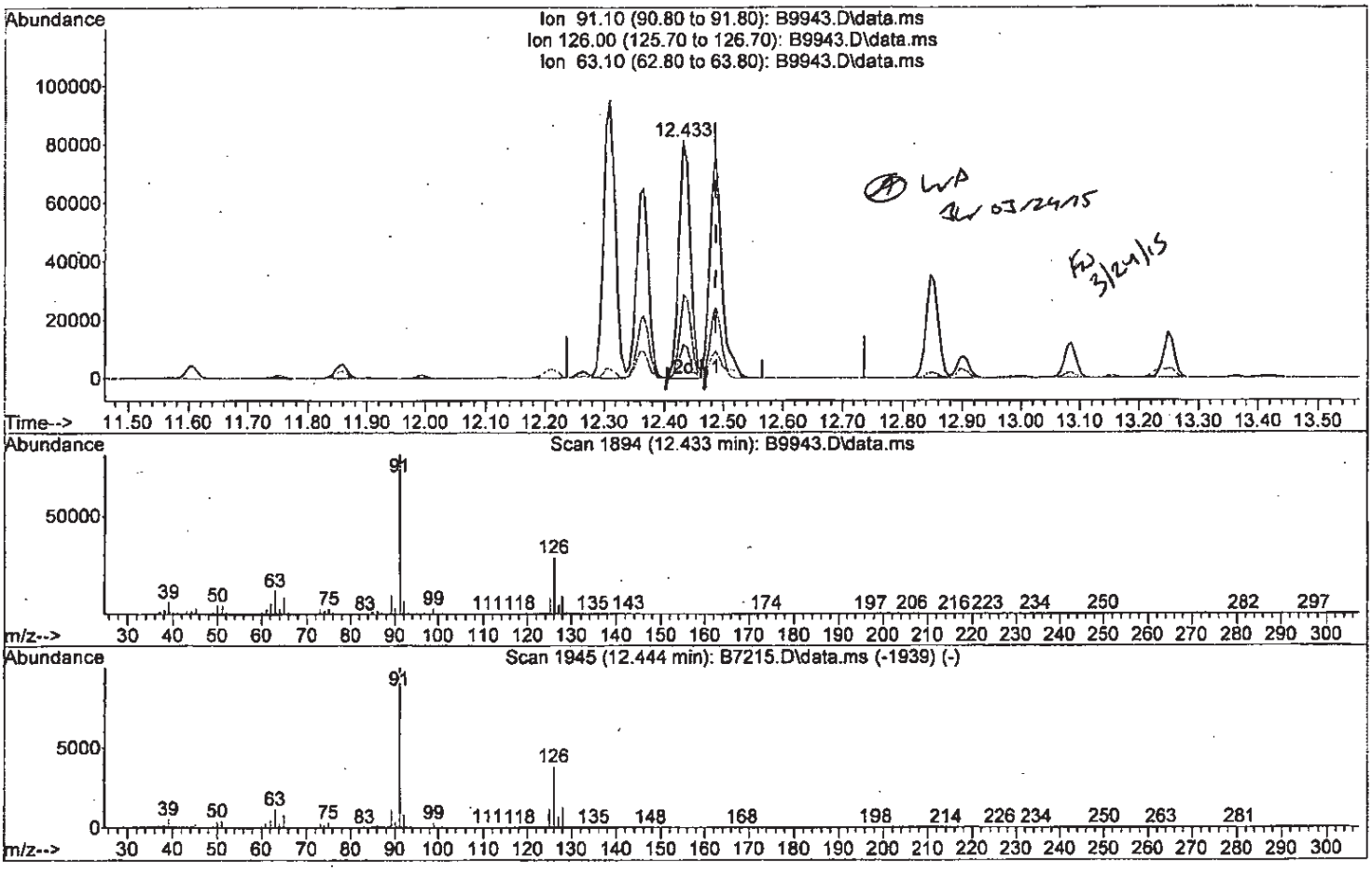
response 106090

Ion	Exp%	Act%
91.10	100	100
126.00	35.40	31.75
63.10	11.90	11.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9943.D
Acq On : 20 Mar 2015 5:47 pm
Operator : B WOJTASIEWICZ
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 23 06:30:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9943.D\data.ms

(98) 3-Chlorotoluene

12.433min (-0.055) 177.10 ug/L m

response 109829

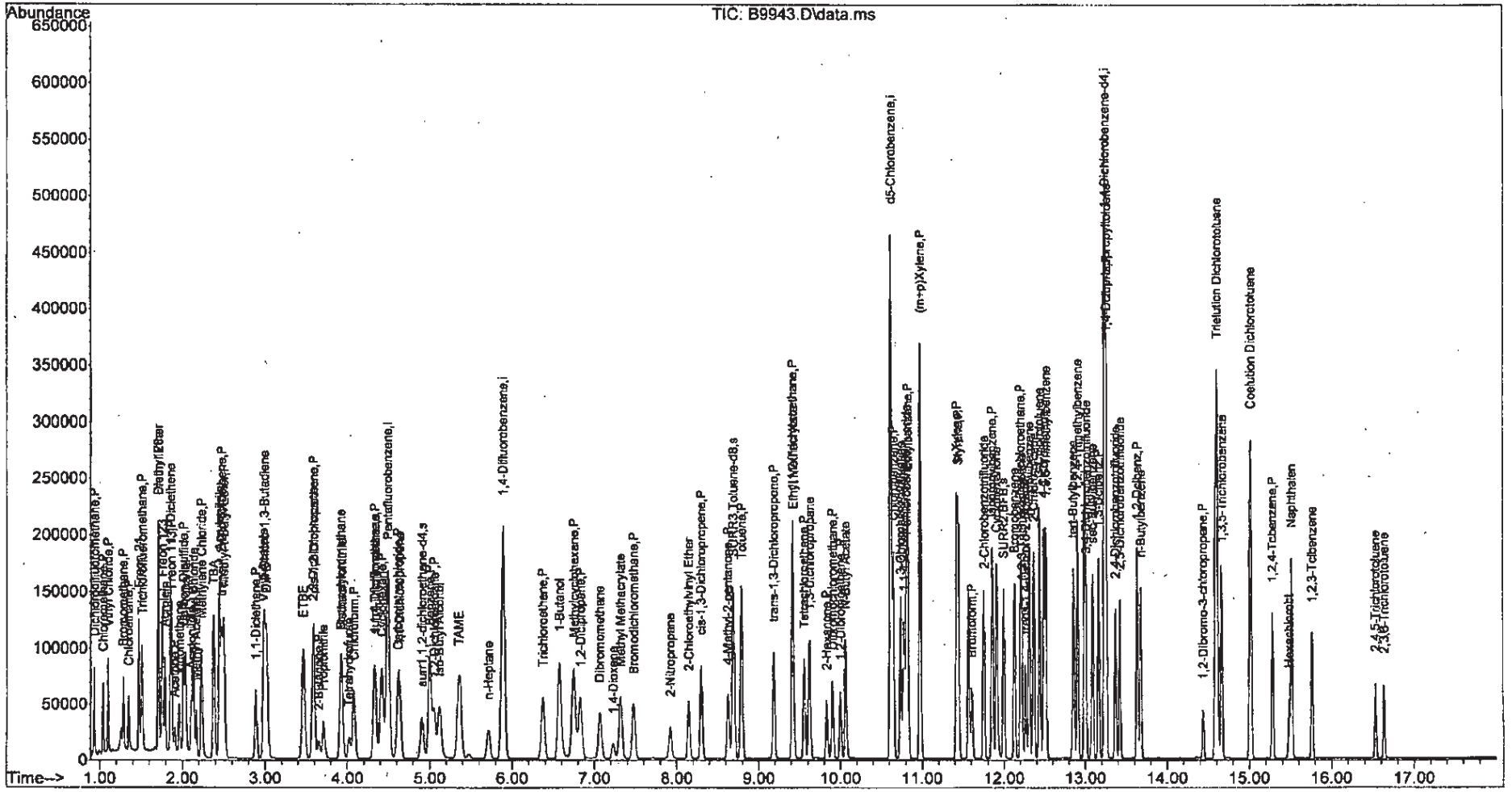
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	35.16
63.10	11.90	14.33
0.00	0.00	0.00

00380

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9943.D
Acq On : 20 Mar 2015 5:47 pm
Operator : B WOJTASIEWICZ
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 23 07:13:37 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



T8609

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9944.D
Acq On : 20 Mar 2015 6:11 pm
Operator : B WOJTASIEWICZ
Sample : 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 23 07:17:23 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

BW 03/24/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.496	168	161692	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.892	114	270124	50.00	ug/L		0.00
71) d5-Chlorobenzene	10.617	117	240425	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	117925	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.337	113	83651	48.94	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 97.88%				
48) surr1,1,2-dichloroetha...	4.904	65	105413	58.04	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 116.08%				
65) SURR3,Toluene-d8	8.696	98	315416	49.78	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.56%				
70) SURR2,BFB	11.994	95	125555	55.94	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 111.88%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.936	85	95965	53.40	ug/L		99
4) Chloromethane	1.033	50	92772	45.82	ug/L		98
5) Vinyl Chloride	1.100	62	102021	42.48	ug/L		98
6) Bromomethane	1.283	94	49391	27.78	ug/L		98
7) Chloroethane	1.350	64	63992	43.67	ug/L		97
8) Freon 21	1.472	67	172237	47.73	ug/L		98
9) Trichlorofluoromethane	1.509	101	132909	48.56	ug/L		99
10) Diethyl Ether	1.710	59	78985	46.79	ug/L		98
11) Freon 123a	1.710	67	105114	46.11	ug/L		97
12) Freon 123	1.759	83	126221	46.26	ug/L		97
13) Acrolein	1.789	56	103636	214.73	ug/L		98
14) 1,1-Diclethene	1.856	96	80313	43.59	ug/L		91
15) Freon 113	1.868	101	74476	46.28	ug/L		99
16) Acetone	1.911	43	35346	39.01	ug/L		92
17) 2-Propanol	2.045	45	173149	1165.76	ug/L		94
18) Iodomethane	1.966	142	88159	51.79	ug/L		100
19) Carbon Disulfide	2.008	76	238398	52.66	ug/L		98
20) Acetonitrile	2.112	40	38561m	215.37	ug/L		
21) Allyl Chloride	2.136	76	45244	45.84	ug/L	#	83
22) Methyl Acetate	2.167	43	79479	46.88	ug/L		94
23) Methylene Chloride	2.234	84	90825	49.26	ug/L		95
24) TBA	2.386	59	285900	1904.89	ug/L		79
25) Acrylonitrile	2.454	53	217749	265.92	ug/L		100
26) Methyl-t-Butyl Ether	2.502	73	279880	65.78	ug/L		98
27) trans-1,2-Dichloroethene	2.478	96	82678	49.86	ug/L		94
28) 1,1-Diclethane	2.892	63	147276	53.36	ug/L		98
29) Vinyl Acetate	2.984	86	22937	66.58	ug/L	#	78
30) DIPE	3.027	45	235772	56.20	ug/L		97
31) 2-Chloro-1,3-Butadiene	2.996	53	141744	58.54	ug/L		93
32) ETBE	3.472	59	258471	70.75	ug/L		97
33) 2,2-Dichloropropane	3.587	77	119900	80.86	ug/L		97
34) cis-1,2-Dichloroethene	3.594	96	95798	49.44	ug/L		84
35) 2-Butanone	3.654	43	50583	56.51	ug/L		98
36) Propionitrile	3.709	54	88157	287.34	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9944.D
Acq On : 20 Mar 2015 6:11 pm
Operator : B WOJTASIEWICZ
Sample : 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 23 07:17:23 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	3.923	130	59743	49.48	ug/L		89
38) Methacrylonitrile	3.935	67	47913	52.90	ug/L		88
39) Tetrahydrofuran	4.020	42	31945	60.94	ug/L		96
40) Chloroform	4.081	83	156651	53.76	ug/L		97
41) 1,1,1-Trichloroethane	4.337	97	130152	61.34	ug/L		99
42) TAME	5.361	73	253365	75.64	ug/L		94
44) Cyclohexane	4.423	41	71351	52.40	ug/L		95
46) Carbontetrachloride	4.618	121	30822	60.20	ug/L		83
47) 1,1-Dichloropropene	4.636	75	106436	47.93	ug/L		96
49) Benzene	5.002	78	340583	46.42	ug/L		97
50) 1,2-Dichloroethane	5.057	62	134390	54.90	ug/L		99
51) Iso-Butyl Alcohol	5.124	43	107867	1526.56	ug/L		98
52) n-Heptane	5.709	43	70779	47.96	ug/L		93
53) 1-Butanol	6.581	56	187661	3731.61	ug/L		96
54) Trichloroethene	6.373	130	85560	43.51	ug/L		95
55) Methylcyclohexane	6.751	55	102717	51.54	ug/L		92
56) 1,2-Diclpropane	6.825	63	86937	48.73	ug/L		99
57) Dibromomethane	7.068	93	62163	48.93	ug/L		94
58) 1,4-Dioxane	7.227	88	35402	1115.46	ug/L		92
59) Methyl Methacrylate	7.318	69	80470	58.53	ug/L		95
60) Bromodichloromethane	7.477	83	119238	54.82	ug/L		98
61) 2-Nitropropane	7.922	41	57535	145.95	ug/L		97
62) 2-Chloroethylvinyl Ether	8.148	63	69368	64.75	ug/L		92
63) cis-1,3-Dichloropropene	8.300	75	143543	61.42	ug/L		99
64) 4-Methyl-2-pentanone	8.629	43	105116	61.64	ug/L		98
66) Toluene	8.794	91	367678	46.92	ug/L		98
67) trans-1,3-Dichloropropene	9.184	75	135455	70.82	ug/L		97
68) Ethyl Methacrylate	9.422	69	141962	62.65	ug/L		94
69) 1,1,2-Trichloroethane	9.416	97	91586	48.28	ug/L		96
72) Tetrachloroethene	9.556	164	62887	43.50	ug/L		93
73) 2-Hexanone	9.830	43	75712	61.58	ug/L		97
74) 1,3-Dichloropropane	9.623	76	150974	49.10	ug/L		92
75) Dibromochloromethane	9.903	129	90864	52.86	ug/L		98
76) N-Butyl Acetate	10.062	43	162742	68.94	ug/L		96
77) 1,2-Dibromoethane	10.001	107	97187	50.35	ug/L		98
78) 3-Chlorobenzotrifluoride	10.738	180	108860	128.36	ug/L	#	100
79) Chlorobenzene	10.647	112	233492	44.55	ug/L		95
80) 4-Chlorobenzotrifluoride	10.806	180	96682	124.45	ug/L	#	100
81) 1,1,1,2-Tetrachloroethane	10.775	131	81382	51.98	ug/L		96
82) Ethylbenzene	10.824	106	124902	46.14	ug/L	#	88
83) (m+p)Xylene	10.976	106	302104	95.61	ug/L		97
84) o-Xylene	11.421	106	150750	48.81	ug/L		93
85) Styrene	11.440	104	268539	50.29	ug/L		96
86) Bromoform	11.610	173	61471	48.51	ug/L		97
87) 2-Chlorobenzotrifluoride	11.757	180	108634	152.59	ug/L	#	100
88) Isopropylbenzene	11.860	105	378173	49.56	ug/L		97
89) Cyclohexanone	11.909	55	151095	461.40	ug/L		95
90) trans-1,4-Dichloro-2-B...	12.263	53	38189	64.19	ug/L		78
92) 1,1,2,2-Tetrachloroethane	12.202	83	133697	49.24	ug/L		98
93) Bromobenzene	12.128	156	96657	47.87	ug/L		92
95) 1,2,3-Trichloropropane	12.220	110	40287	50.63	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9944.D
Acq On : 20 Mar 2015 6:11 pm
Operator : B WOJTASIEWICZ
Sample : 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 23 07:17:23 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

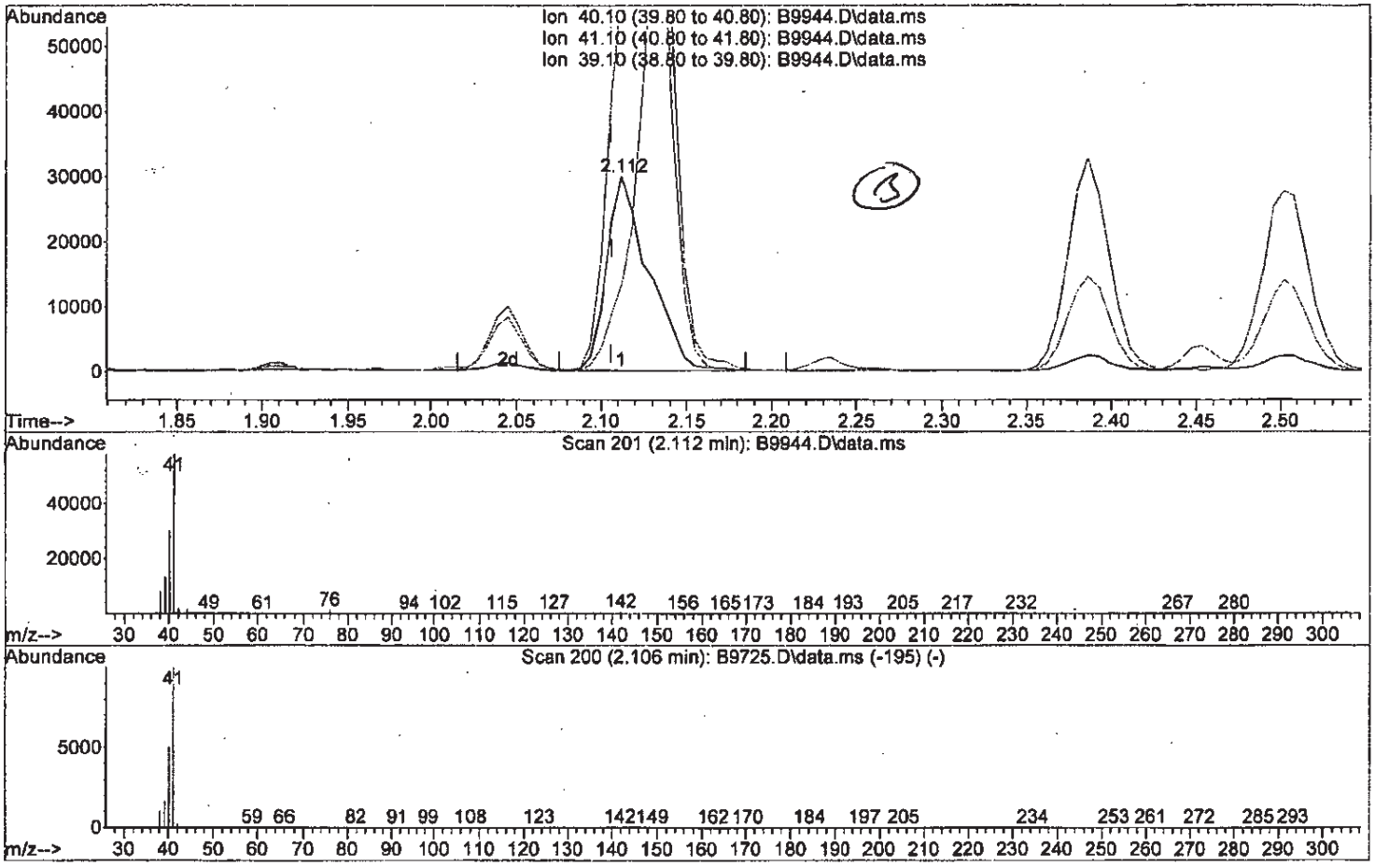
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
96)	n-Propylbenzene	12.311	91	444914	51.24	ug/L		98
97)	2-Chlorotoluene	12.366	91	271774	53.60	ug/L		96
98)	3-Chlorotoluene	12.439	91	279007m	419.18	ug/L		
99)	4-Chlorotoluene	12.488	91	317744	54.42	ug/L		96
100)	1,3,5-Trimethylbenzene	12.519	105	313347	54.58	ug/L		99
101)	tert-Butylbenzene	12.854	119	260343	52.16	ug/L		98
102)	1,2,4-Trimethylbenzene	12.903	105	324665	55.58	ug/L		96
103)	3,4-Dichlorobenzotrifl...	13.006	214	79399	119.29	ug/L	#	100
104)	sec-Butylbenzene	13.086	105	385135	51.33	ug/L		99
105)	p-Isopropyltoluene	13.250	119	315209	51.08	ug/L		96
106)	1,3-Dclbenz	13.159	146	180746	48.58	ug/L		97
107)	1,4-Dclbenz	13.256	146	184777	46.70	ug/L		97
108)	2,4-Dichlorobenzotrifl...	13.366	214	72022	108.20	ug/L	#	100
109)	2,5-Dichlorobenzotrifl...	13.421	214	81538	122.50	ug/L	#	100
111)	n-Butylbenzene	13.677	91	298318	51.68	ug/L		99
112)	1,2-Dclbenz	13.634	146	180589	48.53	ug/L		97
113)	1,2-Dibromo-3-chloropr...	14.439	157	23840	58.58	ug/L		88
114)	Trielution Dichlorotol...	14.604	125	462199	694.40	ug/L	#	25
115)	1,3,5-Trichlorobenzene	14.665	180	117501	176.53	ug/L	#	100
116)	Coelution Dichlorotoluene	15.012	125	326440	490.44	ug/L	#	100
117)	1,2,4-Tcbenzene	15.280	180	99964	50.52	ug/L		96
118)	Hexachlorobt	15.481	225	33774	43.06	ug/L		99
119)	Naphthalen	15.512	128	281867	61.06	ug/L		97
120)	1,2,3-Tclbenzene	15.762	180	81256	50.43	ug/L		97
121)	2,4,5-Trichlorotoluene	16.530	159	40493	60.84	ug/L	#	100
122)	2,3,6-Trichlorotoluene	16.634	159	36115	54.26	ug/L	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9944.D
Acq On : 20 Mar 2015 6:11 pm
Operator : B WOJTASIEWICZ
Sample : 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 23 06:30:29 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9944.D\data.ms

(20) Acetonitrile

2.112min (+0.006) 284.22 ug/L

response 50890

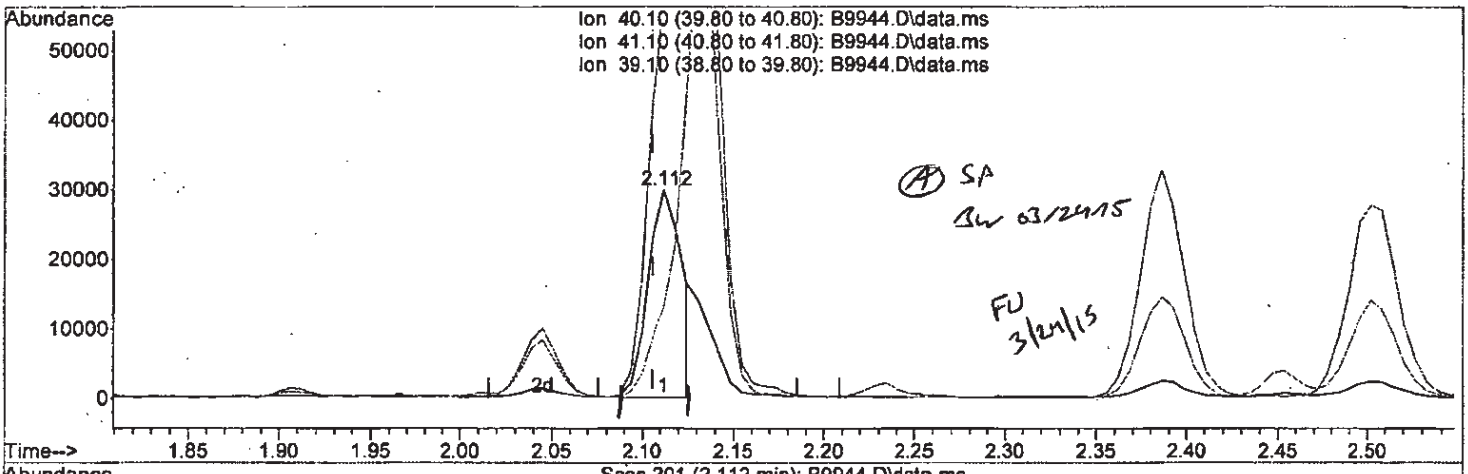
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	193.61
39.10	34.40	44.51
0.00	0.00	0.00

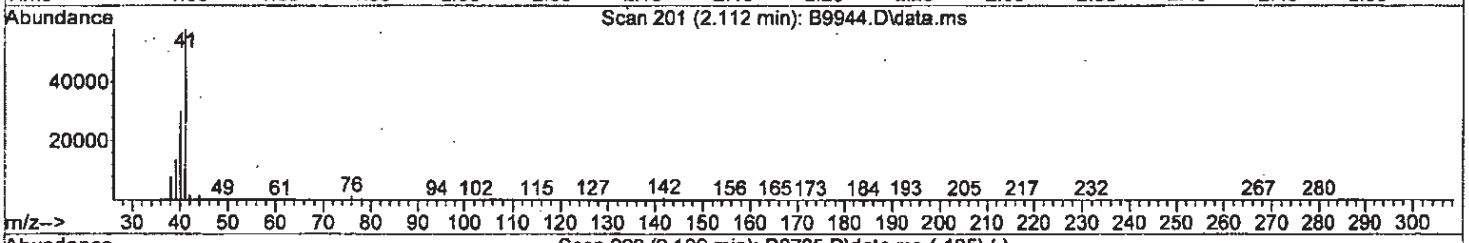
00385

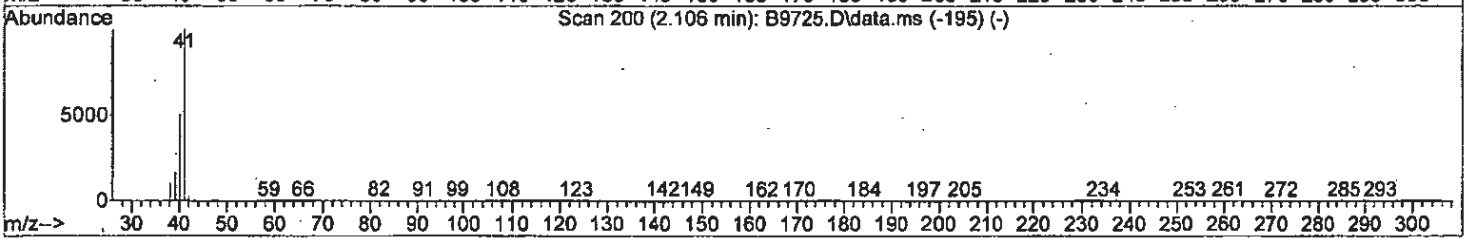
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9944.D
Acq On : 20 Mar 2015 6:11 pm
Operator : B WOJTASIEWICZ
Sample : 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 23 06:30:29 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9944.D\data.ms

(20) Acetonitrile

2.112min (+0.006) 215.37 ug/L m

response 38561

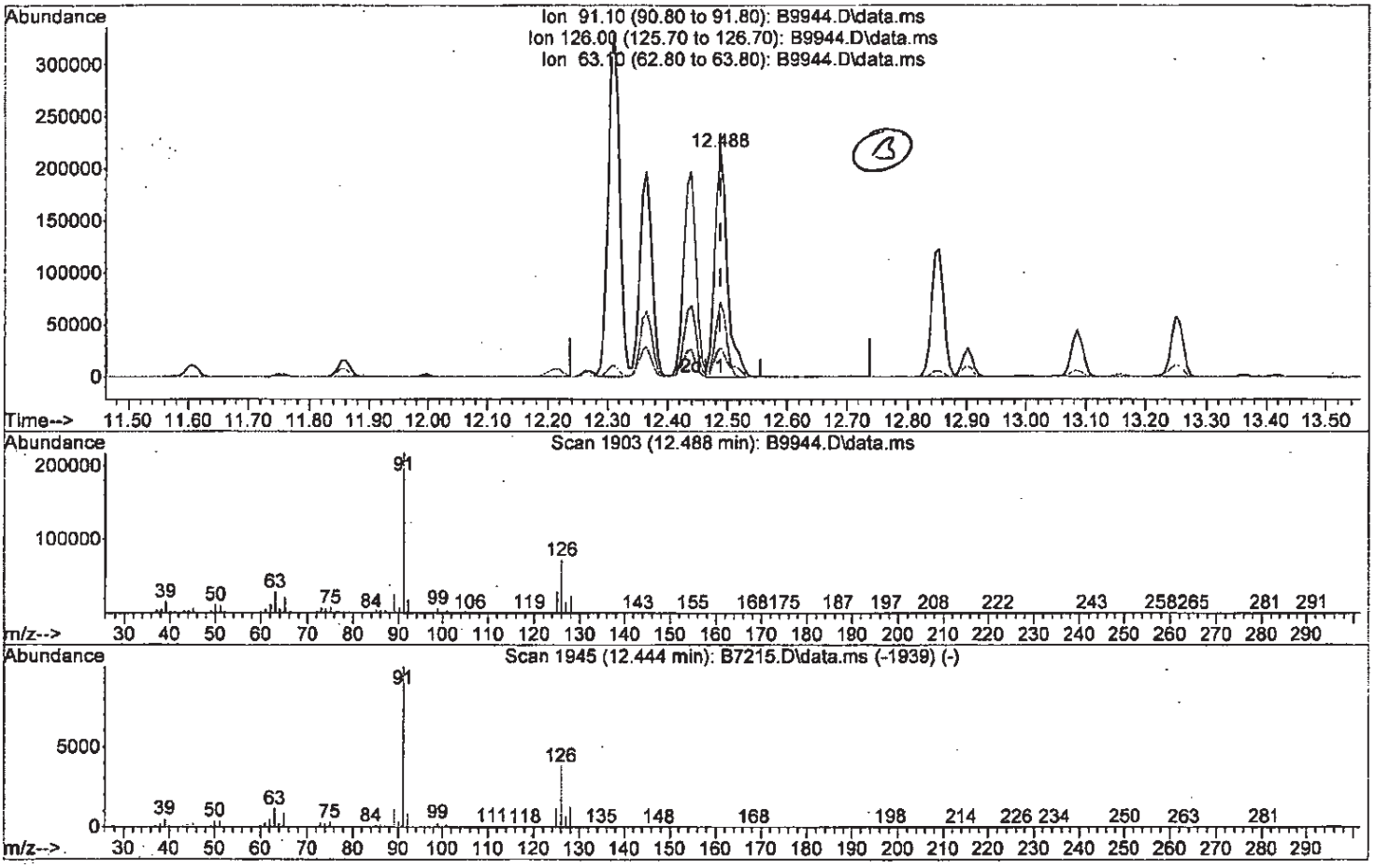
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	193.61
39.10	34.40	44.51
0.00	0.00	0.00

00386

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9944.D
Acq On : 20 Mar 2015 6:11 pm
Operator : B WOJTASIEWICZ
Sample : 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 23 06:30:29 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9944.D\data.ms

(98) 3-Chlorotoluene

12.488min (+0.000) 477.37 ug/L

response 317744

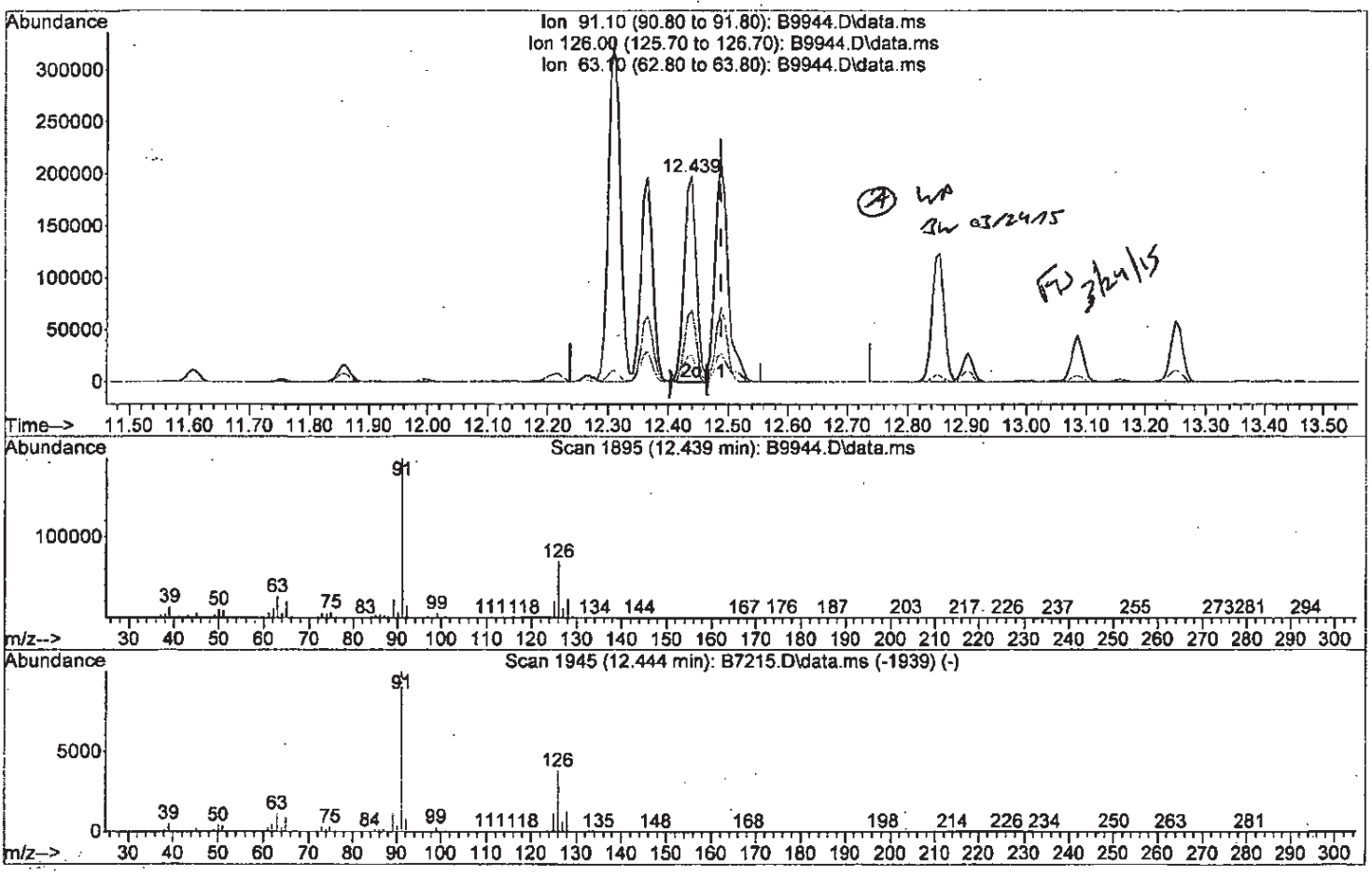
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	32.98
63.10	11.90	12.99
0.00	0.00	0.00

00387

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9944.D
Acq On : 20 Mar 2015 6:11 pm
Operator : B WOJTASIEWICZ
Sample : 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 23 06:30:29 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9944.D\data.ms

(98) 3-Chlorotoluene

12.439min (-0.049) 419.18 ug/L m

response 279007

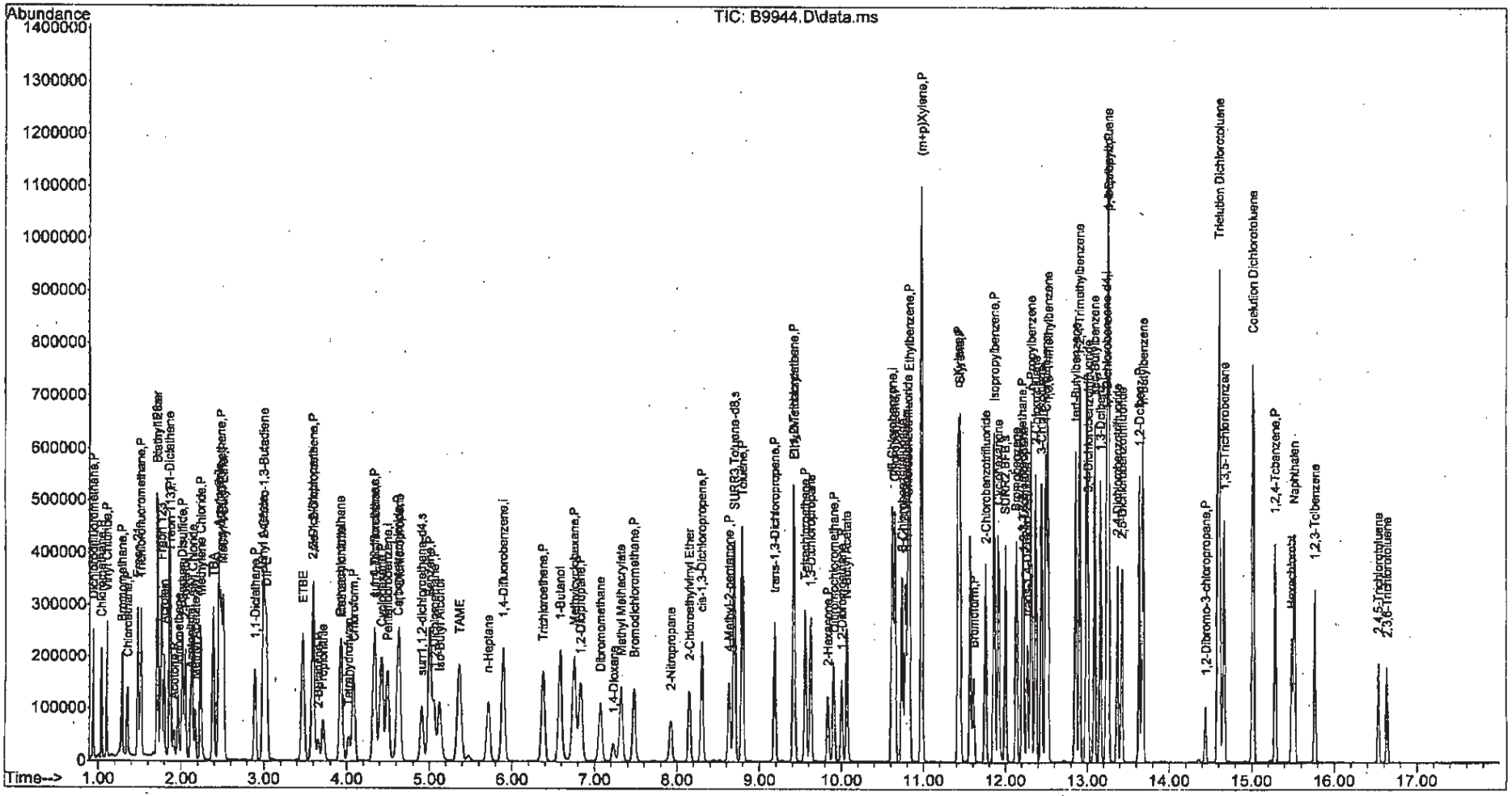
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	34.98
63.10	11.90	13.12
0.00	0.00	0.00

00388

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9944.D
Acq On : 20 Mar 2015 6:11 pm
Operator : B WOJTASIEWICZ
Sample : 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 23 07:17:23 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



69529

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9945.D
Acq On : 20 Mar 2015 6:35 pm
Operator : B WOJTASIEWICZ
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 23 08:10:37 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

03/24/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.496	168	168236	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.892	114	279738	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.617	117	250032	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	125386	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.337	113	175102	98.93	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 197.86%#			
48) surr1,1,2-dichloroetha...	4.911	65	217474	115.62	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 231.24%#			
65) SURR3,Toluene-d8	8.696	98	656592	100.07	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 200.14%#			
70) SURR2,BFB	11.995	95	262116	112.77	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 225.54%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.936	85	200845	107.41	ug/L	98
4) Chloromethane	1.033	50	191549	90.92	ug/L	100
5) Vinyl Chloride	1.100	62	206555	82.65	ug/L	100
6) Bromomethane	1.283	94	92535	50.03	ug/L	98
7) Chloroethane	1.344	64	131428	86.19	ug/L	99
8) Freon 21	1.472	67	337871	89.98	ug/L	98
9) Trichlorofluoromethane	1.509	101	275458	96.73	ug/L	98
10) Diethyl Ether	1.710	59	161238	91.79	ug/L	99
11) Freon 123a	1.710	67	205432	86.62	ug/L	97
12) Freon 123	1.759	83	250022	88.06	ug/L	97
13) Acrolein	1.789	56	210501	419.18	ug/L	98
14) 1,1-Diclethene	1.856	96	166194	86.70	ug/L	94
15) Freon 113	1.862	101	155009	92.57	ug/L	96
16) Acetone	1.911	43	74000	78.50	ug/L	94
17) 2-Propanol	2.051	45	374273	2421.85	ug/L	93
18) Iodomethane	1.966	142	181998	102.76	ug/L	99
19) Carbon Disulfide	2.009	76	500173	106.19	ug/L	100
20) Acetonitrile	2.112	40	85078m	456.68	ug/L	
21) Allyl Chloride	2.131	76	99929	97.31	ug/L #	75
22) Methyl Acetate	2.167	43	164886	93.46	ug/L	93
23) Methylene Chloride	2.234	84	185693	96.79	ug/L	96
24) TBA	2.393	59	635066	4066.72	ug/L	77
25) Acrylonitrile	2.454	53	460350	540.32	ug/L	100
26) Methyl-t-Butyl Ether	2.502	73	578577	130.70	ug/L	97
27) trans-1,2-Dichloroethene	2.478	96	173357	100.48	ug/L	94
28) 1,1-Diclethane	2.893	63	303074	105.53	ug/L	98
29) Vinyl Acetate	2.984	86	46061	128.50	ug/L #	81
30) DIPE	3.021	45	509323	116.69	ug/L	99
31) 2-Chloro-1,3-Butadiene	2.996	53	295776	117.40	ug/L	92
32) ETBE	3.472	59	546426	143.76	ug/L	97
33) 2,2-Dichloropropane	3.588	77	250367	162.28	ug/L	99
34) cis-1,2-Dichloroethene	3.594	96	198351	98.38	ug/L	89
35) 2-Butanone	3.655	43	106980	114.86	ug/L	99
36) Propionitrile	3.716	54	186669	584.77	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9945.D
Acq On : 20 Mar 2015 6:35 pm
Operator : B WOJTASIEWICZ
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 23 08:10:37 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	3.923	130	115323	91.80	ug/L		85
38) Methacrylonitrile	3.935	67	100998	107.18	ug/L		87
39) Tetrahydrofuran	4.020	42	67913	124.52	ug/L		93
40) Chloroform	4.081	83	323730	106.79	ug/L		98
41) 1,1,1-Trichloroethane	4.337	97	275897	124.98	ug/L		97
42) TAME	5.362	73	534537	153.38	ug/L		94
44) Cyclohexane	4.417	41	142578	101.12	ug/L		97
46) Carbontetrachloride	4.618	121	65708	123.93	ug/L		89
47) 1,1-Dichloropropene	4.630	75	226453	98.47	ug/L		95
49) Benzene	5.002	78	706570	92.99	ug/L		98
50) 1,2-Dichloroethane	5.057	62	271815	107.23	ug/L		99
51) Iso-Butyl Alcohol	5.130	43	245939	3360.97	ug/L		96
52) n-Heptane	5.715	43	153010	100.12	ug/L		99
53) 1-Butanol	6.593	56	429325	8243.66	ug/L		95
54) Trichloroethene	6.374	130	179253	88.03	ug/L		97
55) Methylcyclohexane	6.752	55	203019	98.37	ug/L		93
56) 1,2-Diclpropane	6.831	63	178732	96.75	ug/L		99
57) Dibromomethane	7.069	93	128380	97.58	ug/L		95
58) 1,4-Dioxane	7.227	88	75590	2299.86	ug/L		84
59) Methyl Methacrylate	7.319	69	168857	118.61	ug/L		89
60) Bromodichloromethane	7.477	83	249309	110.68	ug/L		98
61) 2-Nitropropane	7.928	41	127426	312.14	ug/L		99
62) 2-Chloroethylvinyl Ether	8.148	63	145352	131.01	ug/L		94
63) cis-1,3-Dichloropropene	8.300	75	303808	125.52	ug/L		97
64) 4-Methyl-2-pentanone	8.629	43	221961	125.68	ug/L		98
66) Toluene	8.794	91	766851	94.49	ug/L		98
67) trans-1,3-Dichloropropene	9.184	75	287109	144.95	ug/L		98
68) Ethyl Methacrylate	9.422	69	301049	128.29	ug/L		95
69) 1,1,2-Trichloroethane	9.416	97	186748	95.06	ug/L		96
72) Tetrachloroethene	9.556	164	132245	87.96	ug/L		93
73) 2-Hexanone	9.830	43	165892	129.74	ug/L		99
74) 1,3-Dichloropropane	9.623	76	313869	98.16	ug/L		91
75) Dibromochloromethane	9.903	129	193741	108.38	ug/L		98
76) N-Butyl Acetate	10.062	43	340155	138.55	ug/L		97
77) 1,2-Dibromoethane	10.001	107	201235	100.25	ug/L		99
78) 3-Chlorobenzotrifluoride	10.739	180	223392	253.29	ug/L	#	100
79) Chlorobenzene	10.647	112	488804	89.68	ug/L		96
80) 4-Chlorobenzotrifluoride	10.806	180	199736	247.22	ug/L	#	100
81) 1,1,1,2-Tetrachloroethane	10.775	131	172364	105.85	ug/L		97
82) Ethylbenzene	10.830	106	262369	93.21	ug/L		99
83) (m+p)Xylene	10.976	106	638177	194.22	ug/L		96
84) o-Xylene	11.421	106	315163	98.12	ug/L		91
85) Styrene	11.440	104	561380	101.08	ug/L		96
86) Bromoform	11.610	173	138185	104.86	ug/L		92
87) 2-Chlorobenzotrifluoride	11.757	180	222914	301.08	ug/L	#	100
88) Isopropylbenzene	11.860	105	815262	102.73	ug/L		97
89) Cyclohexanone	11.909	55	334821	983.17	ug/L		93
90) trans-1,4-Dichloro-2-B...	12.269	53	83243	134.54	ug/L	#	70
92) 1,1,2,2-Tetrachloroethane	12.202	83	281322	97.44	ug/L		99
93) Bromobenzene	12.129	156	200902	93.58	ug/L		91
95) 1,2,3-Trichloropropane	12.220	110	85070	100.55	ug/L		95

00391

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9945.D
Acq On : 20 Mar 2015 6:35 pm
Operator : B WOJTASIEWICZ
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 23 08:10:37 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

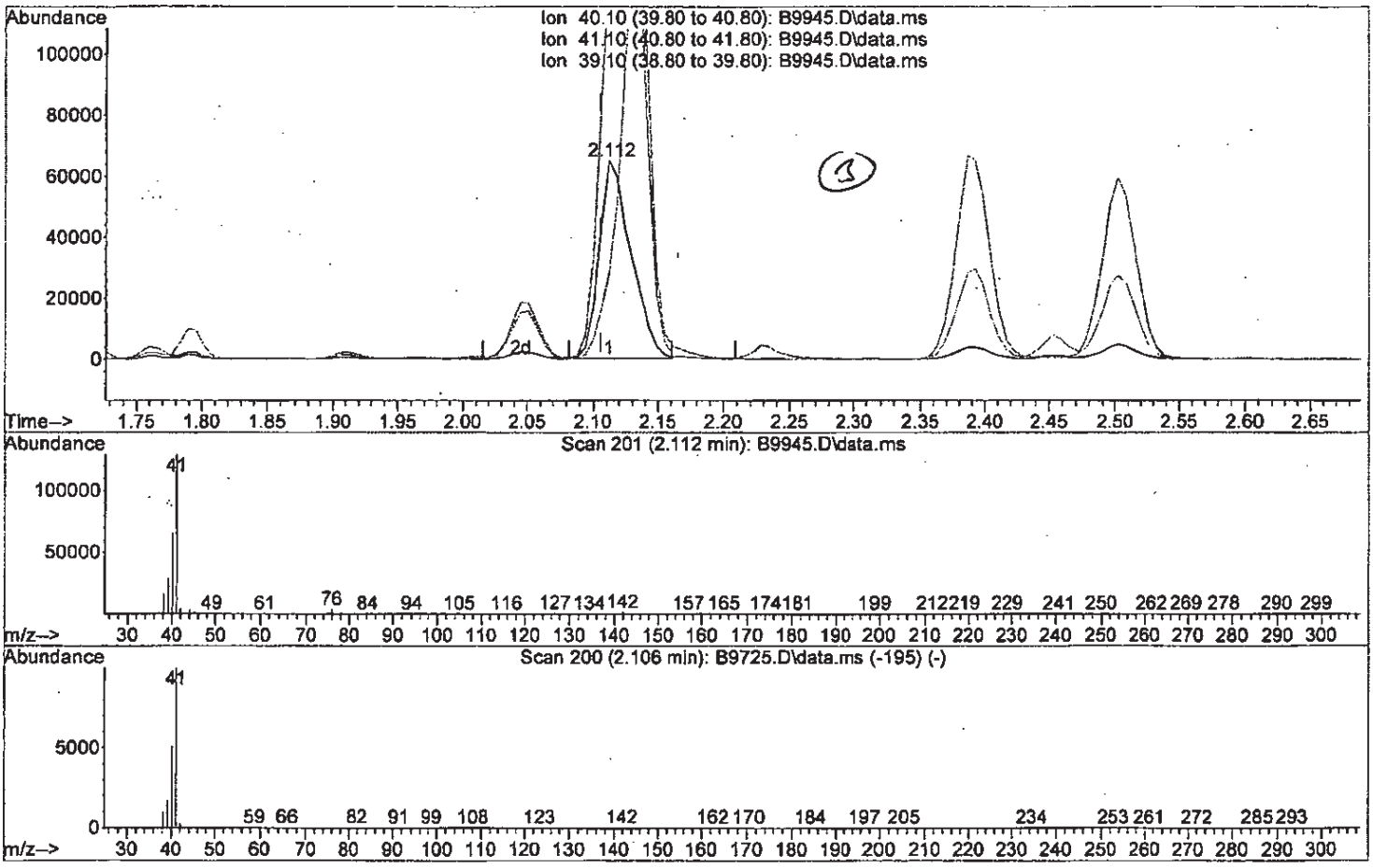
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
96)	n-Propylbenzene	12.312	91	963487	104.37	ug/L		98
97)	2-Chlorotoluene	12.366	91	569054	105.56	ug/L		98
98)	3-Chlorotoluene	12.440	91	572753m	809.29	ug/L		
99)	4-Chlorotoluene	12.488	91	676129	108.91	ug/L		95
100)	1,3,5-Trimethylbenzene	12.519	105	674995	110.58	ug/L		99
101)	tert-Butylbenzene	12.854	119	564119	106.30	ug/L		97
102)	1,2,4-Trimethylbenzene	12.903	105	683814	110.10	ug/L		97
103)	3,4-Dichlorobenzotrifl...	13.007	214	163269	230.70	ug/L	#	100
104)	sec-Butylbenzene	13.086	105	844307	105.83	ug/L		99
105)	p-Isopropyltoluene	13.250	119	687349	104.76	ug/L		95
106)	1,3-Dclbenz	13.159	146	383615	96.98	ug/L		97
107)	1,4-Dclbenz	13.256	146	390225	92.76	ug/L		96
108)	2,4-Dichlorobenzotrifl...	13.366	214	148704	210.12	ug/L	#	100
109)	2,5-Dichlorobenzotrifl...	13.421	214	169046	238.86	ug/L	#	100
111)	n-Butylbenzene	13.677	91	656831	107.02	ug/L		99
112)	1,2-Dclbenz	13.634	146	379628	95.95	ug/L		97
113)	1,2-Dibromo-3-chloropr...	14.439	157	53674	124.04	ug/L		89
114)	Trielution Dichlorotol...	14.604	125	983039	1389.02	ug/L	#	24
115)	1,3,5-Trichlorobenzene	14.665	180	247694	349.99	ug/L	#	100
116)	Coelution Dichlorotoluene	15.012	125	703405	993.90	ug/L	#	100
117)	1,2,4-Tcbenzene	15.280	180	217892	103.56	ug/L		96
118)	Hexachlorobt	15.482	225	78333	93.92	ug/L		99
119)	Naphthalen	15.512	128	613129	124.93	ug/L		97
120)	1,2,3-Tclbenzene	15.762	180	177379	103.53	ug/L		96
121)	2,4,5-Trichlorotoluene	16.530	159	89265	126.13	ug/L	#	100
122)	2,3,6-Trichlorotoluene	16.634	159	78196	110.49	ug/L	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9945.D
Acq On : 20 Mar 2015 6:35 pm
Operator : B WOJTASIEWICZ
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 23 06:30:39 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9945.D\data.ms

(20) Acetonitrile

2.112min (+0.006) 589.25 ug/L

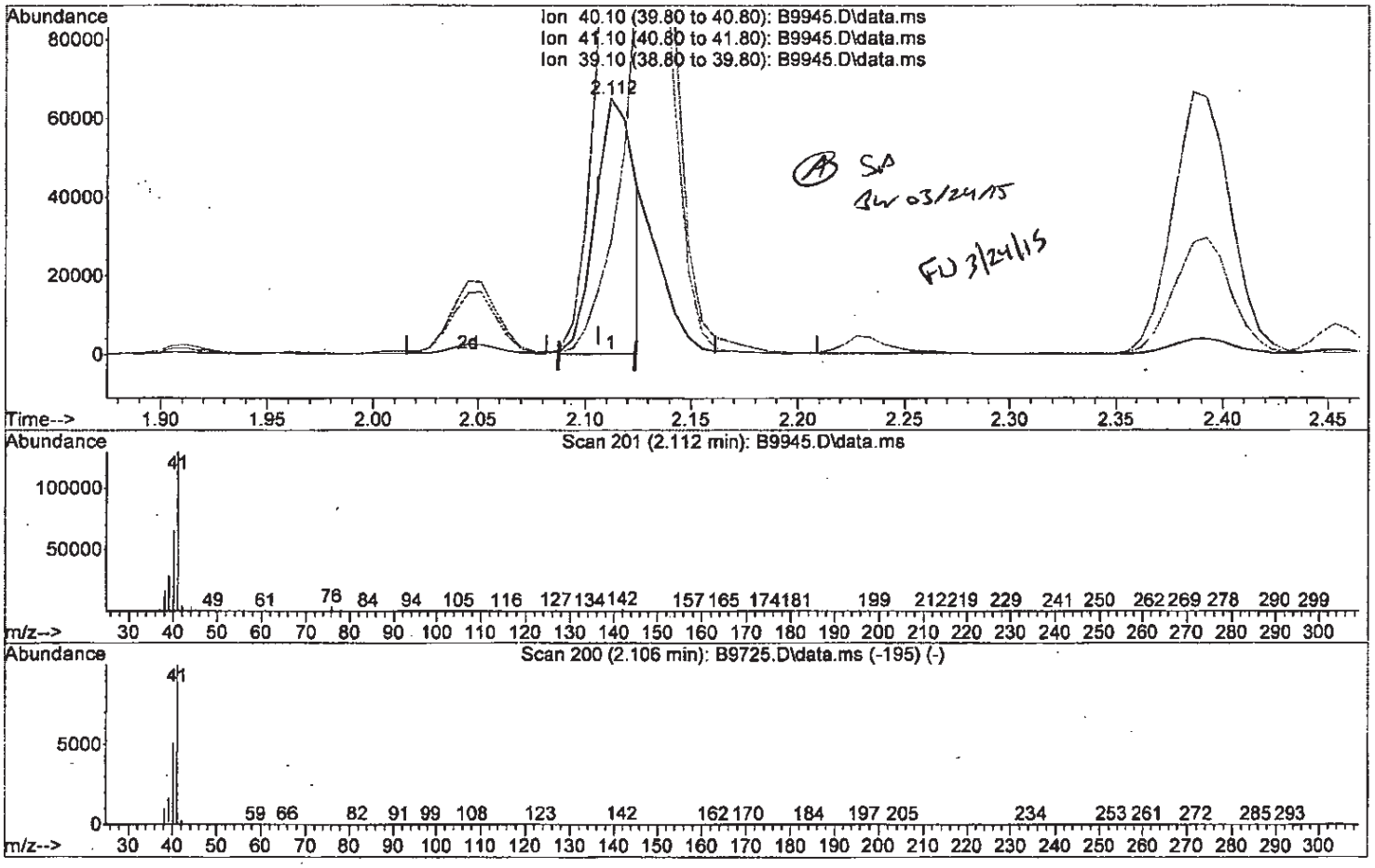
response 109775

Ion	Exp%	Act%
40.10	100	100
41.10	196.80	198.55
39.10	34.40	44.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9945.D
Acq On : 20 Mar 2015 6:35 pm
Operator : B WOJTASIEWICZ
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 23 06:30:39 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9945.D\data.ms

(20) Acetonitrile

2.112min (+0.006) 456.68 ug/L m

response 85078

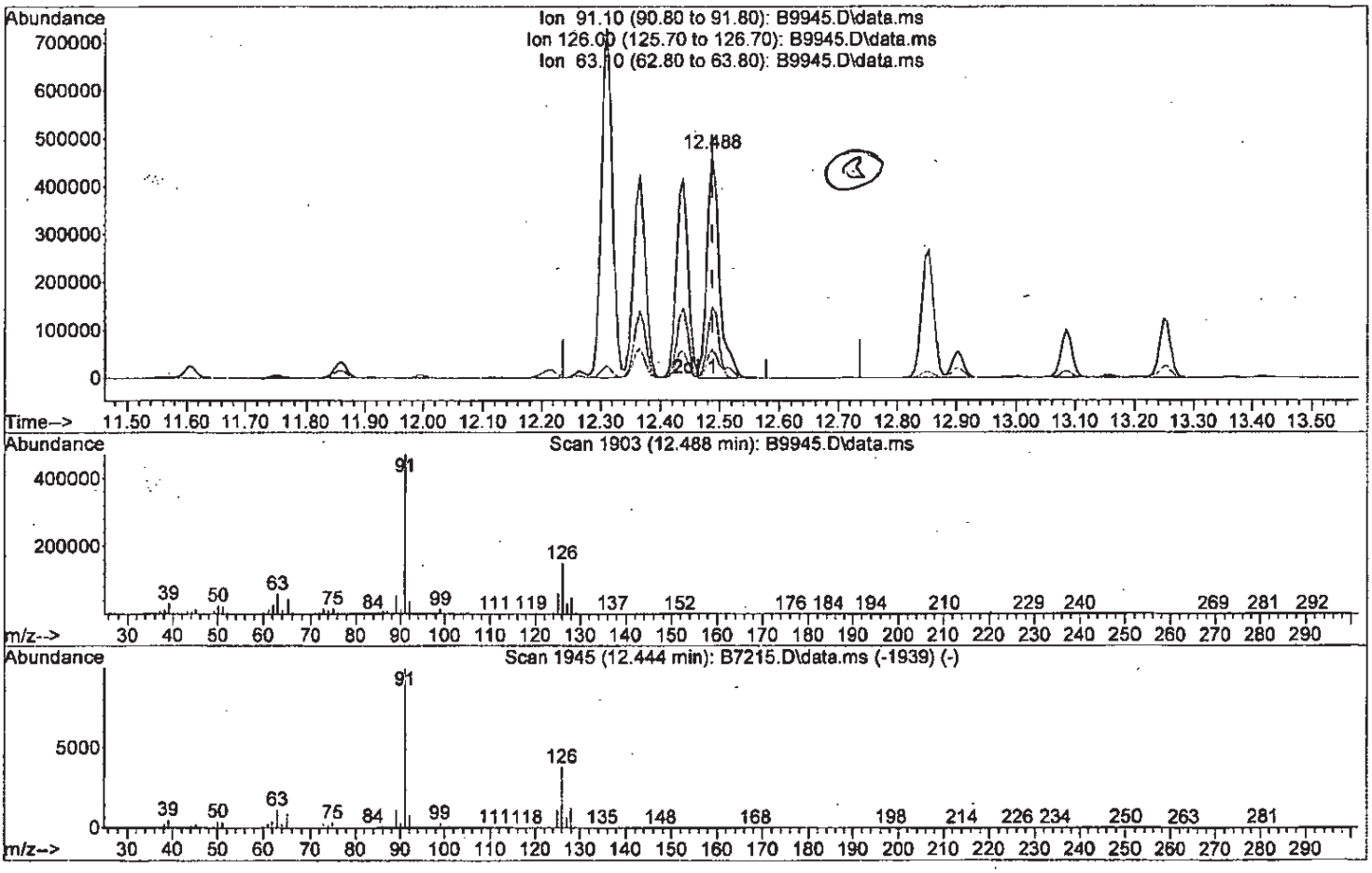
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	198.55
39.10	34.40	44.03
0.00	0.00	0.00

00394

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9945.D
Acq On : 20 Mar 2015 6:35 pm
Operator : B WOJTASIEWICZ
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 23 06:30:39 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9945.D\data.ms

(98) 3-Chlorotoluene

12.488min (+0.000) 956.50 ug/L

response 676931

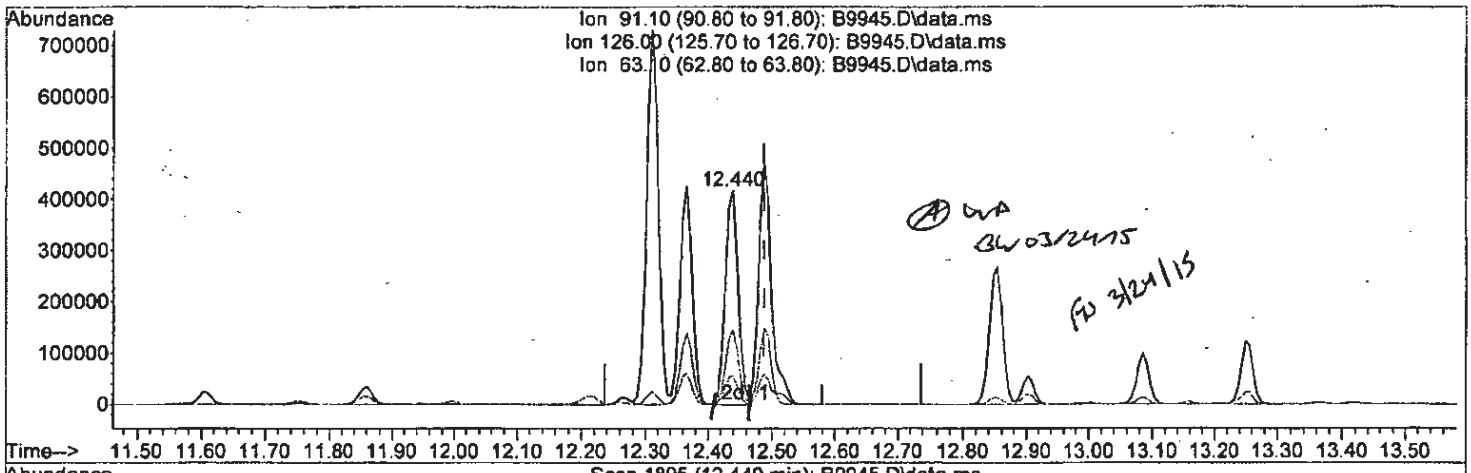
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	31.59
63.10	11.90	12.44
0.00	0.00	0.00

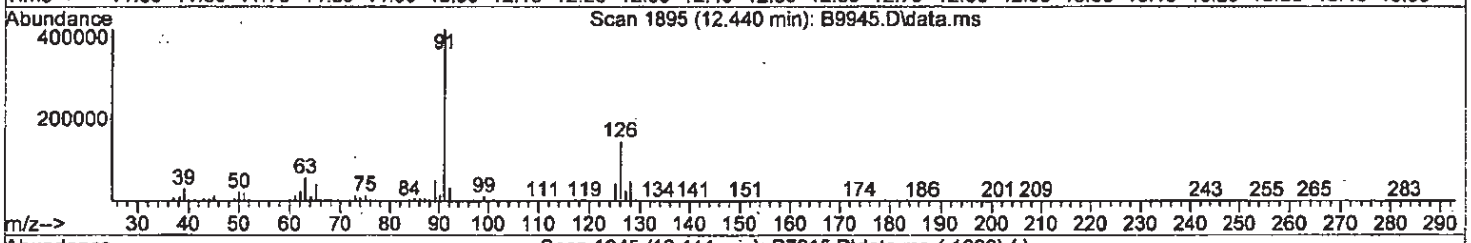
00395

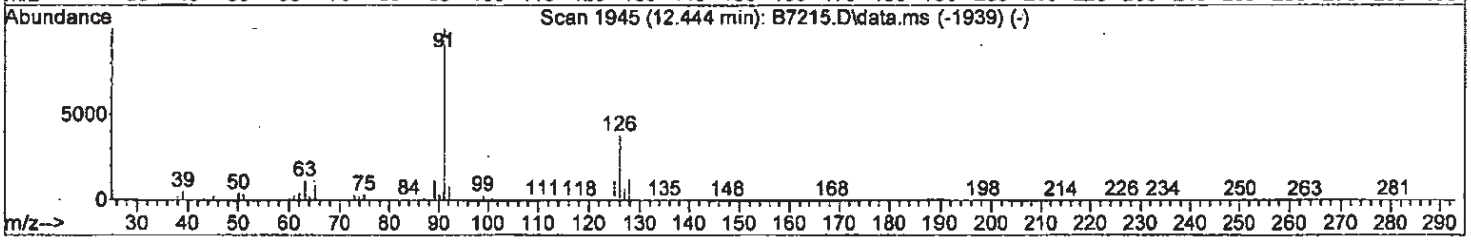
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9945.D
Acq On : 20 Mar 2015 6:35 pm
Operator : B WOJTASIEWICZ
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 23 06:30:39 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration







TIC: B9945.D\data.ms

(98) 3-Chlorotoluene

12.440min (-0.049) 809.29 ug/L m

response 572753

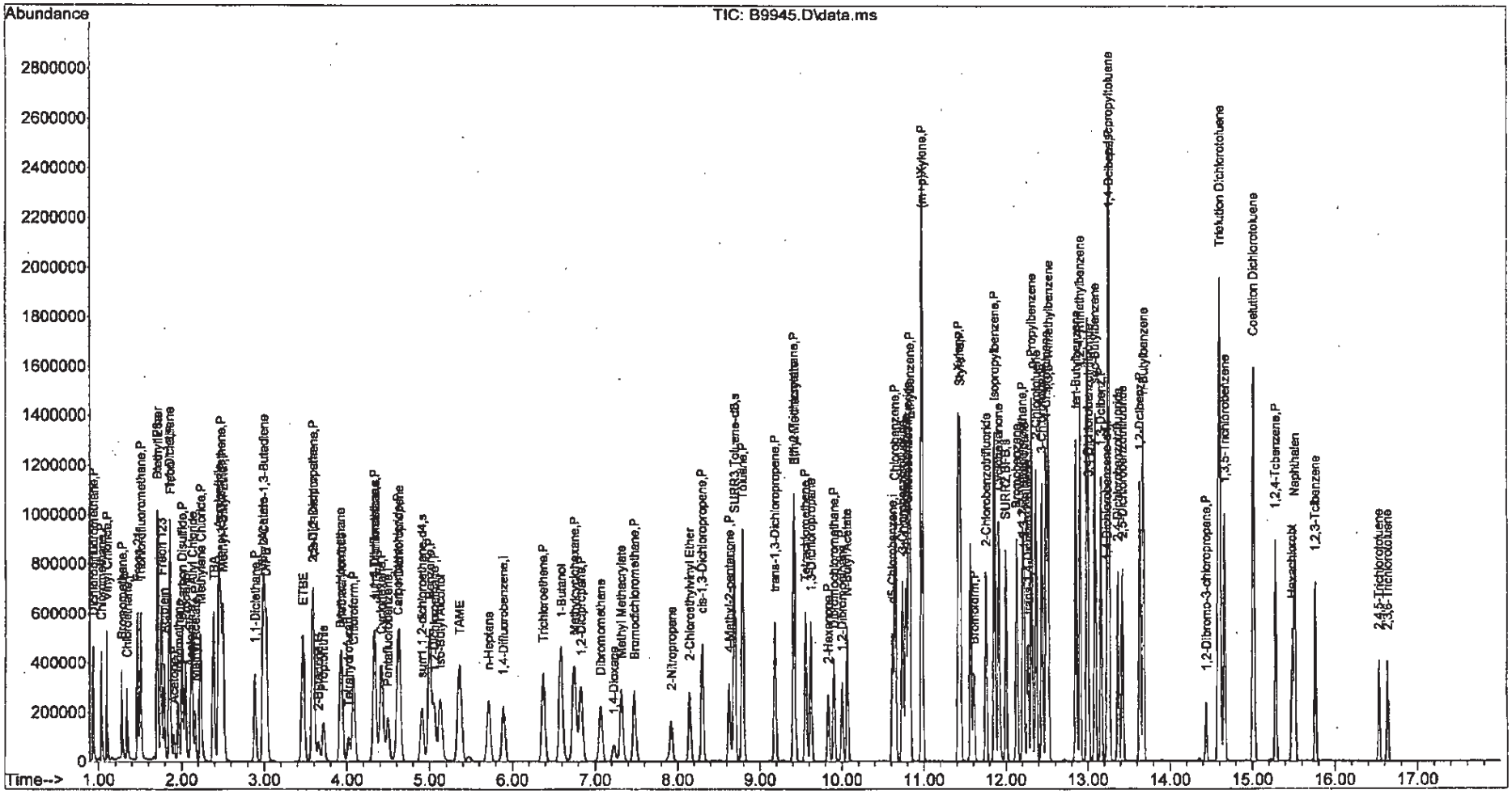
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	34.90
63.10	11.90	13.48
0.00	0.00	0.00

00396

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9945.D
Acq On : 20 Mar 2015 6:35 pm
Operator : B WOJTASIEWICZ
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 23 08:10:37 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9946.D
Acq On : 20 Mar 2015 6:59 pm
Operator : B WOJTASIEWICZ
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 23 08:13:08 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

AW 03/24/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.496	168	151508	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.892	114	247914	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.617	117	226305	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	120543	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.337	113	299070	190.66	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 381.32%#			
48) surr1,1,2-dichloroetha...	4.910	65	370024	221.98	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 443.96%#			
65) SURR3,Toluene-d8	8.696	98	1115697	191.88	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 383.76%#			
70) SURR2,BFB	12.000	95	454850	220.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 441.64%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.936	85	297468	176.64	ug/L	97
4) Chloromethane	1.033	50	290866	153.31	ug/L	100
5) Vinyl Chloride	1.100	62	304686	135.38	ug/L	100
6) Bromomethane	1.283	94	122675	73.64	ug/L	98
7) Chloroethane	1.338	64	206390	150.30	ug/L	99
8) Freon 21	1.472	67	515877	152.55	ug/L	98
9) Trichlorofluoromethane	1.503	101	404273	157.65	ug/L	98
10) Diethyl Ether	1.716	59	238494	150.77	ug/L	98
11) Freon 123a	1.710	67	307614	144.02	ug/L	96
12) Freon 123	1.759	83	376612	147.30	ug/L	99
13) Acrolein	1.795	56	318205	703.61	ug/L	100
14) 1,1-Diclethene	1.856	96	247384	143.30	ug/L	92
15) Freon 113	1.862	101	231840	153.74	ug/L	97
16) Acetone	1.917	43	113256	133.40	ug/L	94
17) 2-Propanol	2.063	45	558498	4012.95	ug/L	93
18) Iodomethane	1.960	142	283076	177.47	ug/L	98
19) Carbon Disulfide	2.009	76	775834	182.90	ug/L	100
20) Acetonitrile	2.124	40	128968m	768.71	ug/L	
21) Allyl Chloride	2.130	76	133224	144.05	ug/L #	50
22) Methyl Acetate	2.173	43	238544	150.15	ug/L	96
23) Methylene Chloride	2.234	84	273829	158.49	ug/L	97
24) TBA	2.405	59	937714	6667.75	ug/L	77
25) Acrylonitrile	2.460	53	674321	878.85	ug/L	99
26) Methyl-t-Butyl Ether	2.508	73	837585	210.09	ug/L	98
27) trans-1,2-Dichloroethene	2.478	96	255310	164.32	ug/L	95
28) 1,1-Diclethane	2.893	63	443350	171.42	ug/L	98
29) Vinyl Acetate	2.984	86	69268	214.59	ug/L #	78
30) DIPE	3.027	45	747777	190.23	ug/L	99
31) 2-Chloro-1,3-Butadiene	2.996	53	438936	193.46	ug/L	95
32) ETBE	3.472	59	818680	239.17	ug/L	98
33) 2,2-Dichloropropane	3.587	77	367361	264.40	ug/L	98
34) cis-1,2-Dichloroethene	3.594	96	292478	161.08	ug/L	88
35) 2-Butanone	3.655	43	154617	184.34	ug/L	98
36) Propionitrile	3.722	54	277365	964.82	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9946.D
Acq On : 20 Mar 2015 6:59 pm
Operator : B WOJTASIEWICZ
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 23 08:13:08 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	3.923	130	167117	147.71	ug/L	#	86
38) Methacrylonitrile	3.941	67	146839	173.03	ug/L		92
39) Tetrahydrofuran	4.020	42	96100	195.65	ug/L		95
40) Chloroform	4.081	83	473352	173.38	ug/L		97
41) 1,1,1-Trichloroethane	4.337	97	409707	206.09	ug/L		99
42) TAME	5.362	73	795574	253.48	ug/L		95
44) Cyclohexane	4.417	41	210533	168.48	ug/L		99
46) Carbontetrachloride	4.618	121	99551	211.86	ug/L		88
47) 1,1-Dichloropropene	4.636	75	338487	166.08	ug/L		95
49) Benzene	5.002	78	1040835	154.57	ug/L		98
50) 1,2-Dichloroethane	5.057	62	394987	175.82	ug/L		98
51) Iso-Butyl Alcohol	5.142	43	371892	5734.62	ug/L		100
52) n-Heptane	5.715	43	234555	173.18	ug/L		98
53) 1-Butanol	6.605	56	673866	14600.17	ug/L		95
54) Trichloroethene	6.374	130	265022	146.86	ug/L		95
55) Methylcyclohexane	6.752	55	302491	165.38	ug/L		89
56) 1,2-Diclpropane	6.831	63	265582	162.22	ug/L		100
57) Dibromomethane	7.069	93	189032	162.13	ug/L		97
58) 1,4-Dioxane	7.227	88	116678	4005.68	ug/L		91
59) Methyl Methacrylate	7.318	69	245803	194.82	ug/L		91
60) Bromodichloromethane	7.477	83	368200	184.45	ug/L		98
61) 2-Nitropropane	7.928	41	186706	516.05	ug/L		99
62) 2-Chloroethylvinyl Ether	8.148	63	214063	217.71	ug/L		97
63) cis-1,3-Dichloropropene	8.300	75	441907	206.02	ug/L		99
64) 4-Methyl-2-pentanone	8.629	43	328446	209.85	ug/L		98
66) Toluene	8.794	91	1149443	159.81	ug/L		98
67) trans-1,3-Dichloropropene	9.184	75	425305	242.28	ug/L		98
68) Ethyl Methacrylate	9.422	69	440057	211.61	ug/L		92
69) 1,1,2-Trichloroethane	9.416	97	272639	156.60	ug/L		96
72) Tetrachloroethene	9.562	164	200860	147.60	ug/L		95
73) 2-Hexanone	9.836	43	246627	213.10	ug/L		99
74) 1,3-Dichloropropane	9.623	76	459398	158.73	ug/L		91
75) Dibromochloromethane	9.903	129	291936	180.44	ug/L		100
76) N-Butyl Acetate	10.062	43	504513	227.04	ug/L		97
77) 1,2-Dibromoethane	10.001	107	295609	162.70	ug/L		99
78) 3-Chlorobenzotrifluoride	10.739	180	340531	426.59	ug/L	#	100
79) Chlorobenzene	10.647	112	726401	147.25	ug/L		95
80) 4-Chlorobenzotrifluoride	10.812	180	303274	414.73	ug/L	#	100
81) 1,1,1,2-Tetrachloroethane	10.775	131	259723	176.23	ug/L		97
82) Ethylbenzene	10.830	106	400430	157.17	ug/L		96
83) (m+p)Xylene	10.976	106	967519	325.32	ug/L		96
84) o-Xylene	11.421	106	480001	165.10	ug/L		92
85) Styrene	11.446	104	854309	169.96	ug/L		96
86) Bromoform	11.610	173	210960	176.88	ug/L		97
87) 2-Chlorobenzotrifluoride	11.757	180	344743	514.44	ug/L	#	100
88) Isopropylbenzene	11.860	105	1245684	173.43	ug/L		98
89) Cyclohexanone	11.915	55	518990	1683.74	ug/L		95
90) trans-1,4-Dichloro-2-B...	12.269	53	128200	228.92	ug/L	#	67
92) 1,1,2,2-Tetrachloroethane	12.208	83	427157	153.90	ug/L		100
93) Bromobenzene	12.129	156	305913	148.22	ug/L	#	89
95) 1,2,3-Trichloropropane	12.220	110	128796	158.35	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9946.D
Acq On : 20 Mar 2015 6:59 pm
Operator : B WOJTASIEWICZ
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 23 08:13:08 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

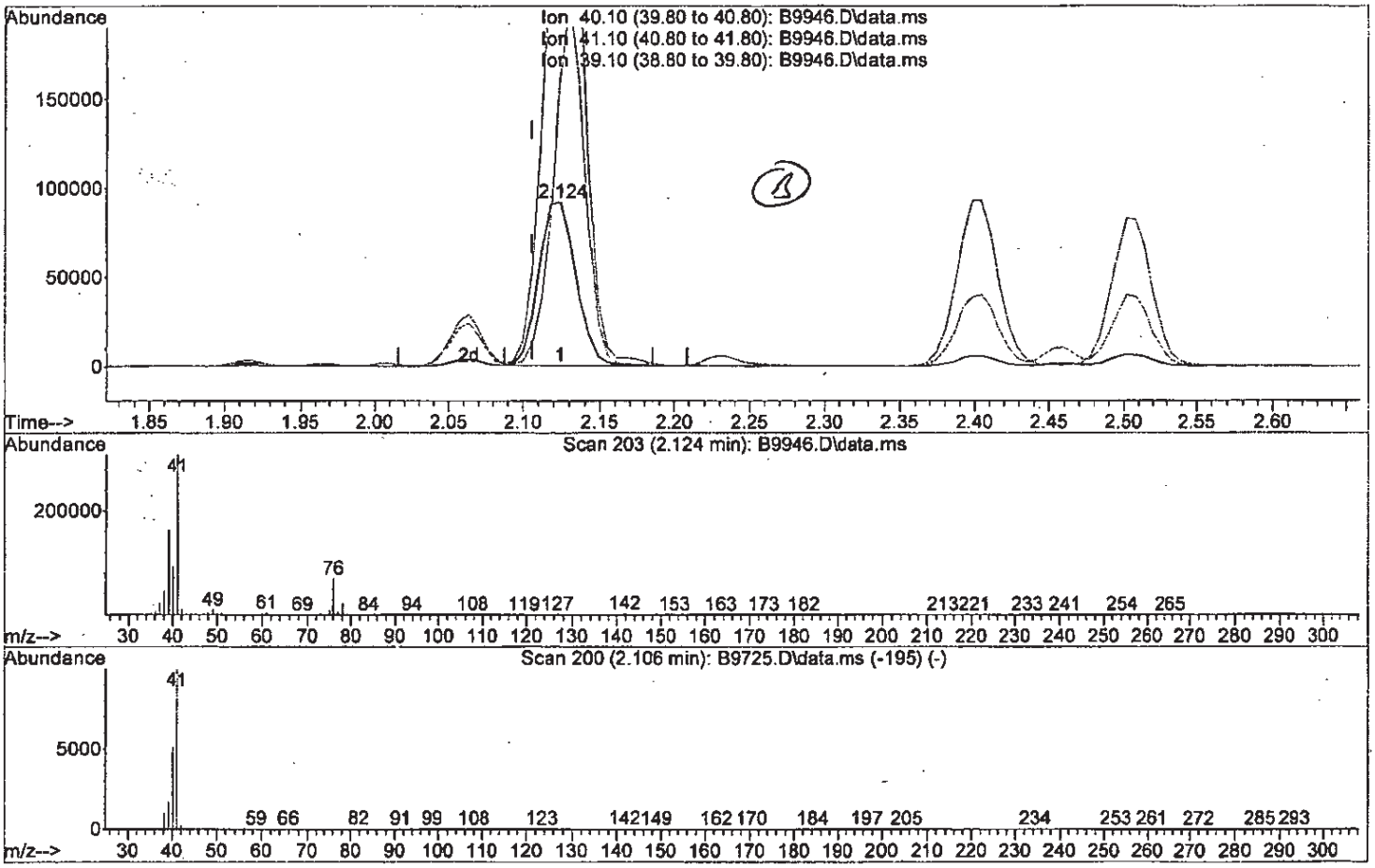
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
96)	n-Propylbenzene	12.311	91	1475650	166.27	ug/L		98
97)	2-Chlorotoluene	12.366	91	878279	169.46	ug/L		96
98)	3-Chlorotoluene	12.439	91	893176m	1312.75	ug/L		
99)	4-Chlorotoluene	12.488	91	1050196	175.96	ug/L		94
100)	1,3,5-Trimethylbenzene	12.519	105	1046680	178.36	ug/L		99
101)	tert-Butylbenzene	12.854	119	881832	172.84	ug/L		97
102)	1,2,4-Trimethylbenzene	12.903	105	1069733	179.16	ug/L		95
103)	3,4-Dichlorobenzotrifl...	13.006	214	256009	376.27	ug/L	#	100
104)	sec-Butylbenzene	13.086	105	1342849	175.07	ug/L		99
105)	p-Isopropyltoluene	13.256	119	1103979	175.02	ug/L		98
106)	1,3-Dclbenz	13.159	146	597243	157.05	ug/L		97
107)	1,4-Dclbenz	13.256	146	624203	154.34	ug/L		97
108)	2,4-Dichlorobenzotrifl...	13.366	214	235488	346.11	ug/L	#	100
109)	2,5-Dichlorobenzotrifl...	13.421	214	265841	390.72	ug/L	#	100
111)	n-Butylbenzene	13.677	91	1073178	181.88	ug/L		98
112)	1,2-Dclbenz	13.634	146	603100	158.55	ug/L		97
113)	1,2-Dibromo-3-chloropr...	14.439	157	85259	204.95	ug/L		87
114)	Trielution Dichlorotol...	14.604	125	1580170	2322.47	ug/L	#	25
115)	1,3,5-Trichlorobenzene	14.665	180	399839	587.67	ug/L	#	100
116)	Coelution Dichlorotoluene	15.012	125	1137520	1671.88	ug/L	#	100
117)	1,2,4-Tcbenzene	15.280	180	353597	174.81	ug/L		96
118)	Hexachlorobt	15.482	225	131078	163.48	ug/L		98
119)	Naphthalen	15.512	128	974965	206.63	ug/L		98
120)	1,2,3-Tclbenzene	15.762	180	289170	175.56	ug/L		96
121)	2,4,5-Trichlorotoluene	16.530	159	143546	210.98	ug/L	#	100
122)	2,3,6-Trichlorotoluene	16.634	159	127389	187.23	ug/L	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9946.D
Acq On : 20 Mar 2015 6:59 pm
Operator : B WOJTASIEWICZ
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 23 06:30:50 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9946.D\data.ms

(20) Acetonitrile

2.124min (+0.018) 911.52 ug/L

response 152927

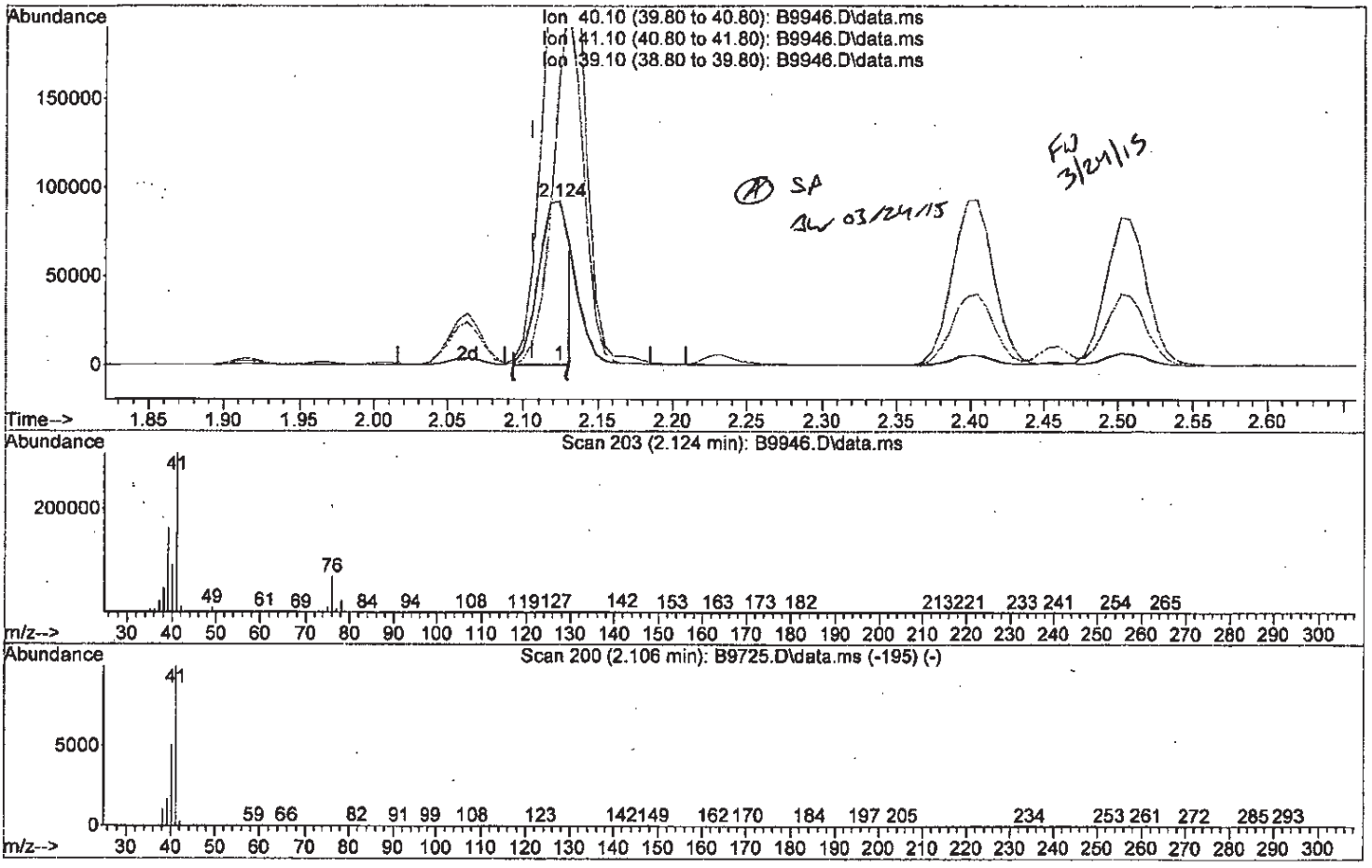
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	333.85#
39.10	34.40	175.65#
0.00	0.00	0.00

00401

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9946.D
Acq On : 20 Mar 2015 6:59 pm
Operator : B WOJTASIEWICZ
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 23 06:30:50 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9946.D\data.ms

(20) Acetonitrile

2.124min (+0.018) 768.71 ug/L m

response 128968

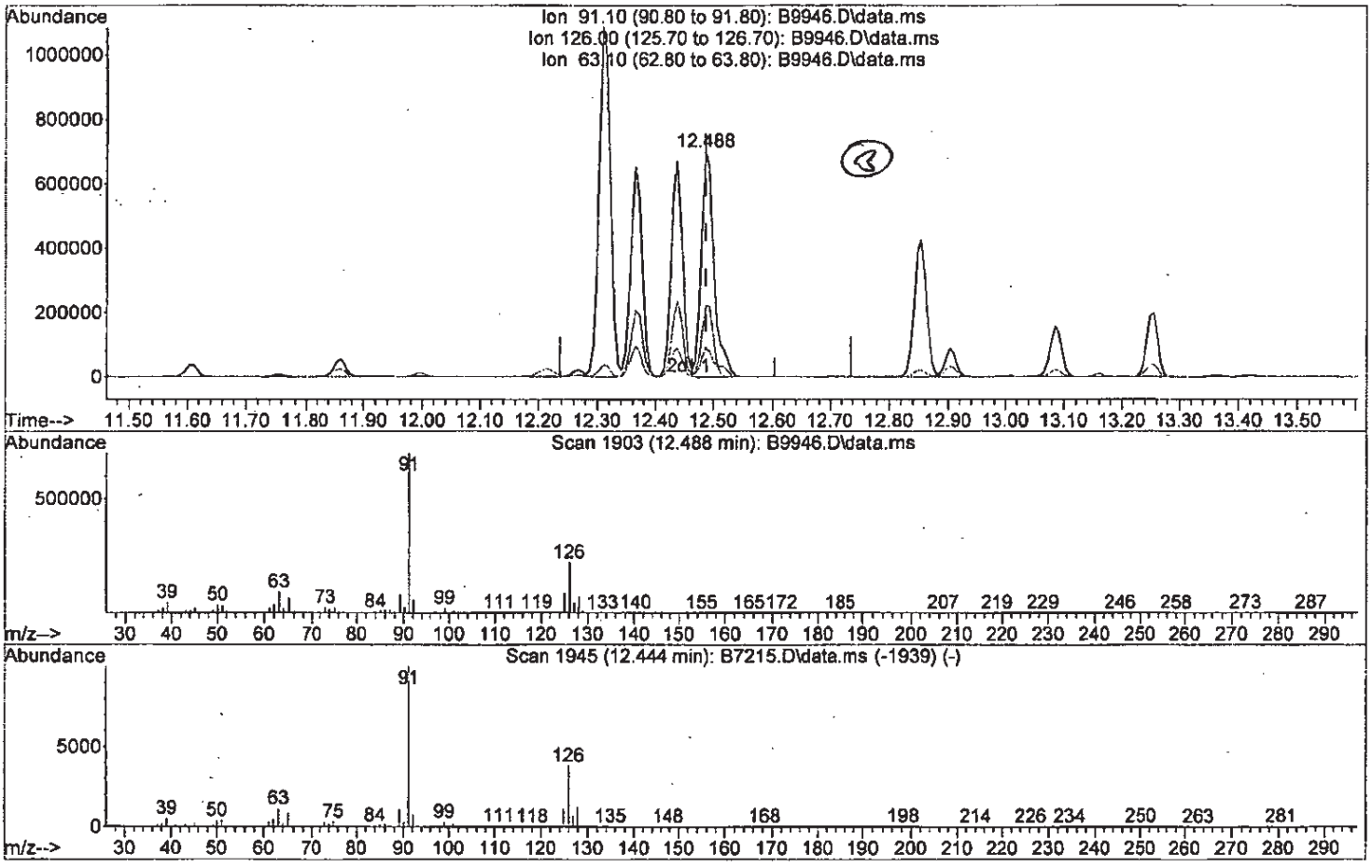
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	333.85#
39.10	34.40	175.65#
0.00	0.00	0.00

00402

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9946.D
Acq On : 20 Mar 2015 6:59 pm
Operator : B WOJTASIEWICZ
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 23 06:30:50 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9946.D\data.ms

(98) 3-Chlorotoluene

12.488min (+0.000) 1545.67 ug/L

response 1051647

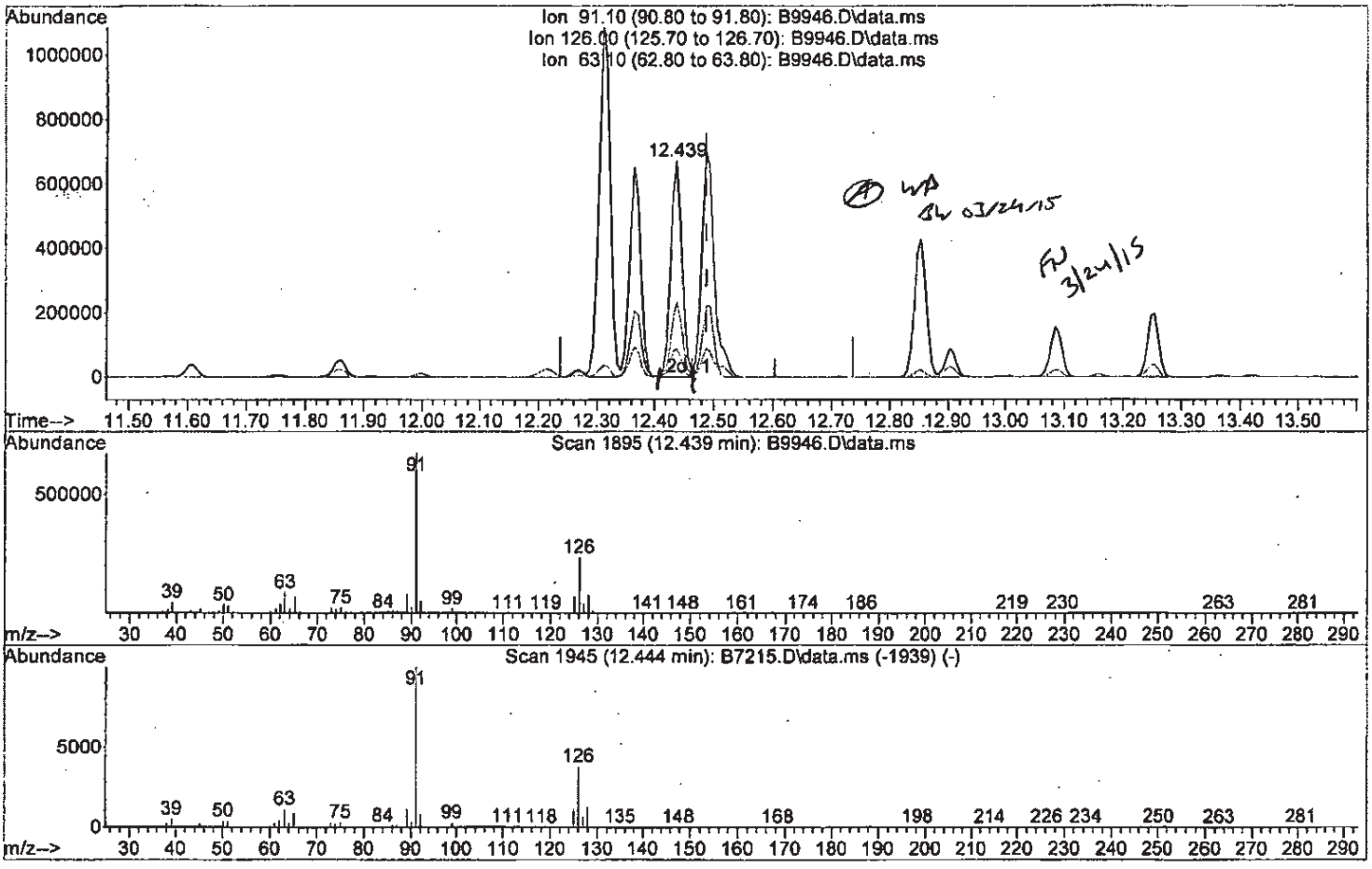
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	31.44
63.10	11.90	13.00
0.00	0.00	0.00

00403

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9946.D
Acq On : 20 Mar 2015 6:59 pm
Operator : B WOJTASIEWICZ
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 23 06:30:50 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9946.D\data.ms

(98) 3-Chlorotoluene

12.439min (-0.049) 1312.75 ug/L m

response 893176

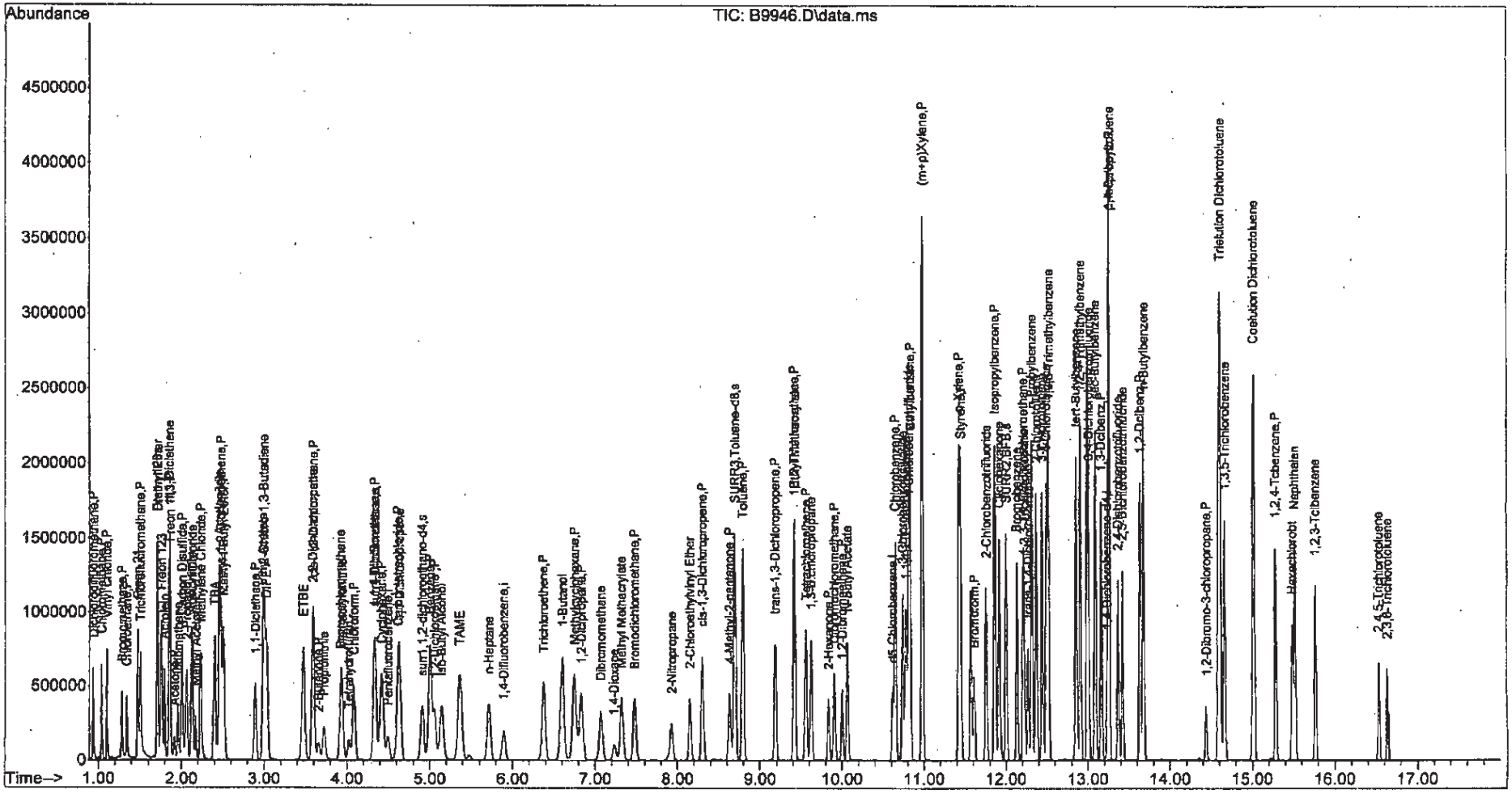
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	34.86
63.10	11.90	13.00
0.00	0.00	0.00

00404

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9946.D
Acq On : 20 Mar 2015 6:59 pm
Operator : B WOJTASIEWICZ
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 23 08:13:08 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9947.D
Acq On : 20 Mar 2015 7:23 pm
Operator : B WOJTASIEWICZ
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 23 08:15:38 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

BW 03/24/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.496	168	177846	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.892	114	291340	50.00	ug/L		0.00
71) d5-Chlorobenzene	10.617	117	261553	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	133168	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.337	113	93223	50.57	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.14%				
48) surr1,1,2-dichloroetha...	4.910	65	114194	58.29	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 116.58%				
65) SURR3,Toluene-d8	8.696	98	341519	49.98	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.96%				
70) SURR2,BFB	11.994	95	135046	55.79	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 111.58%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.936	85	427751	216.39	ug/L		98
4) Chloromethane	1.033	50	421481	189.26	ug/L		99
5) Vinyl Chloride	1.100	62	447775	169.49	ug/L		99
6) Bromomethane	1.283	94	205650	105.17	ug/L		100
7) Chloroethane	1.344	64	287305	178.24	ug/L		99
8) Freon 21	1.472	67	724729	182.57	ug/L		97
9) Trichlorofluoromethane	1.509	101	582139	193.39	ug/L		98
10) Diethyl Ether	1.716	59	347823	187.32	ug/L		98
11) Freon 123a	1.710	67	441883	176.24	ug/L		95
12) Freon 123	1.759	83	535430	178.40	ug/L		99
13) Acrolein	1.795	56	488835	920.83	ug/L		99
14) 1,1-Diclethene	1.856	96	367083	181.14	ug/L		95
15) Freon 113	1.862	101	343790	194.21	ug/L		97
16) Acetone	1.911	43	164865	165.43	ug/L		94
17) 2-Propanol	2.057	45	826376	5058.37	ug/L		92
18) Iodomethane	1.960	142	390766	208.70	ug/L		99
19) Carbon Disulfide	2.008	76	1118725	224.68	ug/L		100
20) Acetonitrile	2.118	40	185027m	939.53	ug/L		
21) Allyl Chloride	2.130	76	166982	153.82	ug/L	#	60
22) Methyl Acetate	2.173	43	356345	191.08	ug/L		96
23) Methylene Chloride	2.234	84	393639	194.10	ug/L		96
24) TBA	2.399	59	1408021	8529.22	ug/L		77
25) Acrylonitrile	2.460	53	983271	1091.73	ug/L		100
26) Methyl-t-Butyl Ether	2.502	73	1223622	261.47	ug/L		97
27) trans-1,2-Dichloroethene	2.478	96	372282	204.12	ug/L		95
28) 1,1-Diclethane	2.892	63	645103	212.49	ug/L		99
29) Vinyl Acetate	2.984	86	110563	291.79	ug/L	#	70
30) DIPE	3.027	45	1090187	236.27	ug/L		99
31) 2-Chloro-1,3-Butadiene	2.996	53	629831	236.49	ug/L		94
32) ETBE	3.472	59	1176266	292.75	ug/L		98
33) 2,2-Dichloropropane	3.587	77	528696	324.16	ug/L		98
34) cis-1,2-Dichloroethene	3.594	96	423315	198.61	ug/L		88
35) 2-Butanone	3.655	43	235687	239.38	ug/L		99
36) Propionitrile	3.722	54	399654	1184.32	ug/L		99

00406

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9947.D
Acq On : 20 Mar 2015 7:23 pm
Operator : B WOJTASIEWICZ
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 23 08:15:38 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	3.923	130	239328	180.21	ug/L		88
38) Methacrylonitrile	3.941	67	215743	216.58	ug/L		87
39) Tetrahydrofuran	4.020	42	144817	251.17	ug/L		93
40) Chloroform	4.081	83	689342	215.10	ug/L		96
41) 1,1,1-Trichloroethane	4.337	97	591714	253.56	ug/L		98
42) TAME	5.368	73	1151055	312.43	ug/L		95
44) Cyclohexane	4.417	41	298139	203.02	ug/L		97
46) Carbontetrachloride	4.618	121	143972	260.72	ug/L		88
47) 1,1-Dichloropropene	4.636	75	488920	204.13	ug/L		95
49) Benzene	5.008	78	1503293	189.97	ug/L		98
50) 1,2-Dichloroethane	5.057	62	569973	215.90	ug/L		98
51) Iso-Butyl Alcohol	5.142	43	542212	7114.72	ug/L		98
52) n-Heptane	5.715	43	337548	212.07	ug/L		95
53) 1-Butanol	6.605	56	989996	18252.35	ug/L		97
54) Trichloroethene	6.373	130	380217	179.29	ug/L		95
55) Methylcyclohexane	6.751	55	430709	200.38	ug/L		89
56) 1,2-Diclpropane	6.831	63	379232	197.11	ug/L		98
57) Dibromomethane	7.068	93	274454	200.30	ug/L		94
58) 1,4-Dioxane	7.227	88	166056	4851.12	ug/L		90
59) Methyl Methacrylate	7.318	69	362243	244.31	ug/L		93
60) Bromodichloromethane	7.477	83	540604	230.45	ug/L		98
61) 2-Nitropropane	7.928	41	285376	671.20	ug/L		100
62) 2-Chloroethylvinyl Ether	8.154	63	309783	268.11	ug/L		93
63) cis-1,3-Dichloropropene	8.300	75	649529	257.68	ug/L		98
64) 4-Methyl-2-pentanone	8.629	43	483058	262.64	ug/L		97
66) Toluene	8.794	91	1658421	196.21	ug/L		98
67) trans-1,3-Dichloropropene	9.184	75	618345	299.75	ug/L		98
68) Ethyl Methacrylate	9.422	69	640383	262.04	ug/L		91
69) 1,1,2-Trichloroethane	9.416	97	395471	193.29	ug/L		97
72) Tetrachloroethene	9.556	164	291662	185.44	ug/L		95
73) 2-Hexanone	9.836	43	364177	272.26	ug/L		99
74) 1,3-Dichloropropane	9.623	76	659216	197.07	ug/L		91
75) Dibromochloromethane	9.903	129	422845	226.13	ug/L		100
76) N-Butyl Acetate	10.062	43	743943	289.67	ug/L		96
77) 1,2-Dibromoethane	10.001	107	425639	202.69	ug/L		98
78) 3-Chlorobenzotrifluoride	10.739	180	487720	528.63	ug/L	#	100
79) Chlorobenzene	10.647	112	1047760	183.77	ug/L		95
80) 4-Chlorobenzotrifluoride	10.812	180	438945	519.37	ug/L	#	100
81) 1,1,1,2-Tetrachloroethane	10.775	131	372929	218.94	ug/L		96
82) Ethylbenzene	10.830	106	572135	194.30	ug/L		94
83) (m+p)Xylene	10.976	106	1398696	406.92	ug/L		95
84) o-Xylene	11.421	106	681175	202.73	ug/L	#	87
85) Styrene	11.446	104	1217411	209.55	ug/L		97
86) Bromoform	11.610	173	302525	219.46	ug/L		95
87) 2-Chlorobenzotrifluoride	11.757	180	490436	633.22	ug/L	#	100
88) Isopropylbenzene	11.860	105	1778592	214.25	ug/L		97
89) Cyclohexanone	11.915	55	741437	2081.25	ug/L		96
90) trans-1,4-Dichloro-2-B...	12.269	53	177797	274.69	ug/L	#	65
92) 1,1,2,2-Tetrachloroethane	12.208	83	619171	201.94	ug/L		98
93) Bromobenzene	12.135	156	428746	188.04	ug/L		97
95) 1,2,3-Trichloropropane	12.220	110	183535	204.26	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9947.D
Acq On : 20 Mar 2015 7:23 pm
Operator : B WOJTASIEWICZ
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 23 08:15:38 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration

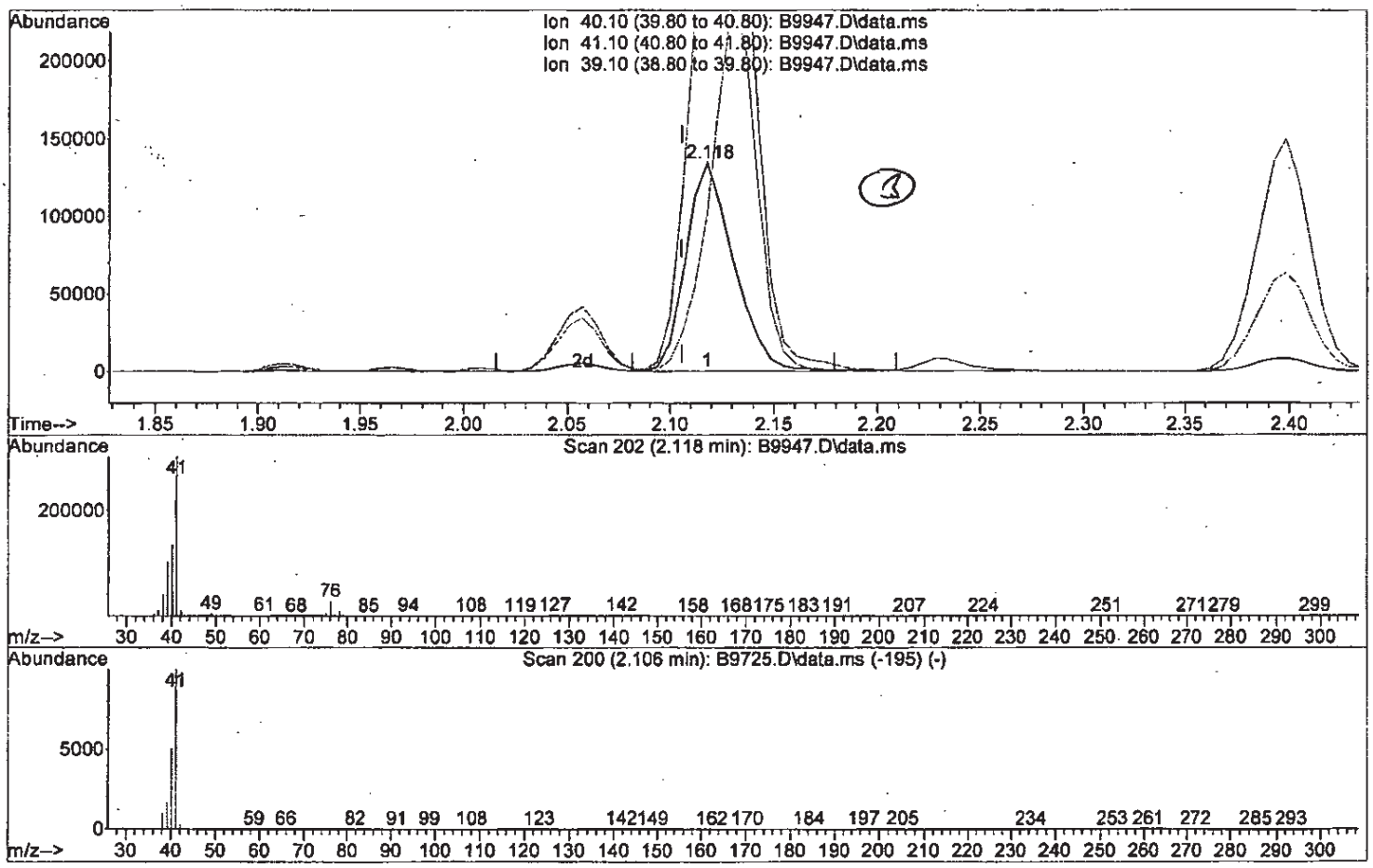
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
96)	n-Propylbenzene	12.311	91	2096616	213.84	ug/L		97
97)	2-Chlorotoluene	12.366	91	1234427	215.60	ug/L		97
98)	3-Chlorotoluene	12.439	91	1255288m	1670.06	ug/L		
99)	4-Chlorotoluene	12.488	91	1483646	225.01	ug/L		93
100)	1,3,5-Trimethylbenzene	12.519	105	1484624	229.01	ug/L		99
101)	tert-Butylbenzene	12.854	119	1249091	221.61	ug/L		96
102)	1,2,4-Trimethylbenzene	12.903	105	1508288	228.66	ug/L		96
103)	3,4-Dichlorobenzotrifl...	13.006	214	355851	473.43	ug/L	#	100
104)	sec-Butylbenzene	13.086	105	1900516	224.29	ug/L		98
105)	p-Isopropyltoluene	13.256	119	1567248	224.90	ug/L		97
106)	1,3-Dclbenz	13.159	146	832280	198.11	ug/L		95
107)	1,4-Dclbenz	13.256	146	858306	192.10	ug/L		97
108)	2,4-Dichlorobenzotrifl...	13.366	214	328332	436.82	ug/L	#	100
109)	2,5-Dichlorobenzotrifl...	13.421	214	369699	491.85	ug/L	#	100
111)	n-Butylbenzene	13.677	91	1507546	231.27	ug/L		100
112)	1,2-Dclbenz	13.634	146	825616	196.47	ug/L		97
113)	1,2-Dibromo-3-chloropr...	14.439	157	120991	263.28	ug/L		88
114)	Trielution Dichlorotol...	14.604	125	2165713	2881.30	ug/L	#	25
115)	1,3,5-Trichlorobenzene	14.665	180	549968	731.69	ug/L	#	100
116)	Coelution Dichlorotoluene	15.018	125	1559481	2074.76	ug/L	#	100
117)	1,2,4-Tcbenzene	15.280	180	491561	219.98	ug/L		95
118)	Hexachlorobt	15.481	225	184399	208.17	ug/L		98
119)	Naphthalen	15.512	128	1377863	264.33	ug/L		97
120)	1,2,3-Tclbenzene	15.762	180	407458	223.93	ug/L		95
121)	2,4,5-Trichlorotoluene	16.530	159	209953	279.33	ug/L	#	100
122)	2,3,6-Trichlorotoluene	16.634	159	185500	246.79	ug/L	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9947.D
Acq On : 20 Mar 2015 7:23 pm
Operator : B WOJTASIEWICZ
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 23 06:31:04 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9947.D\data.ms

(20) Acetonitrile

2.118min (+0.012) 1084.00 ug/L

response 213479

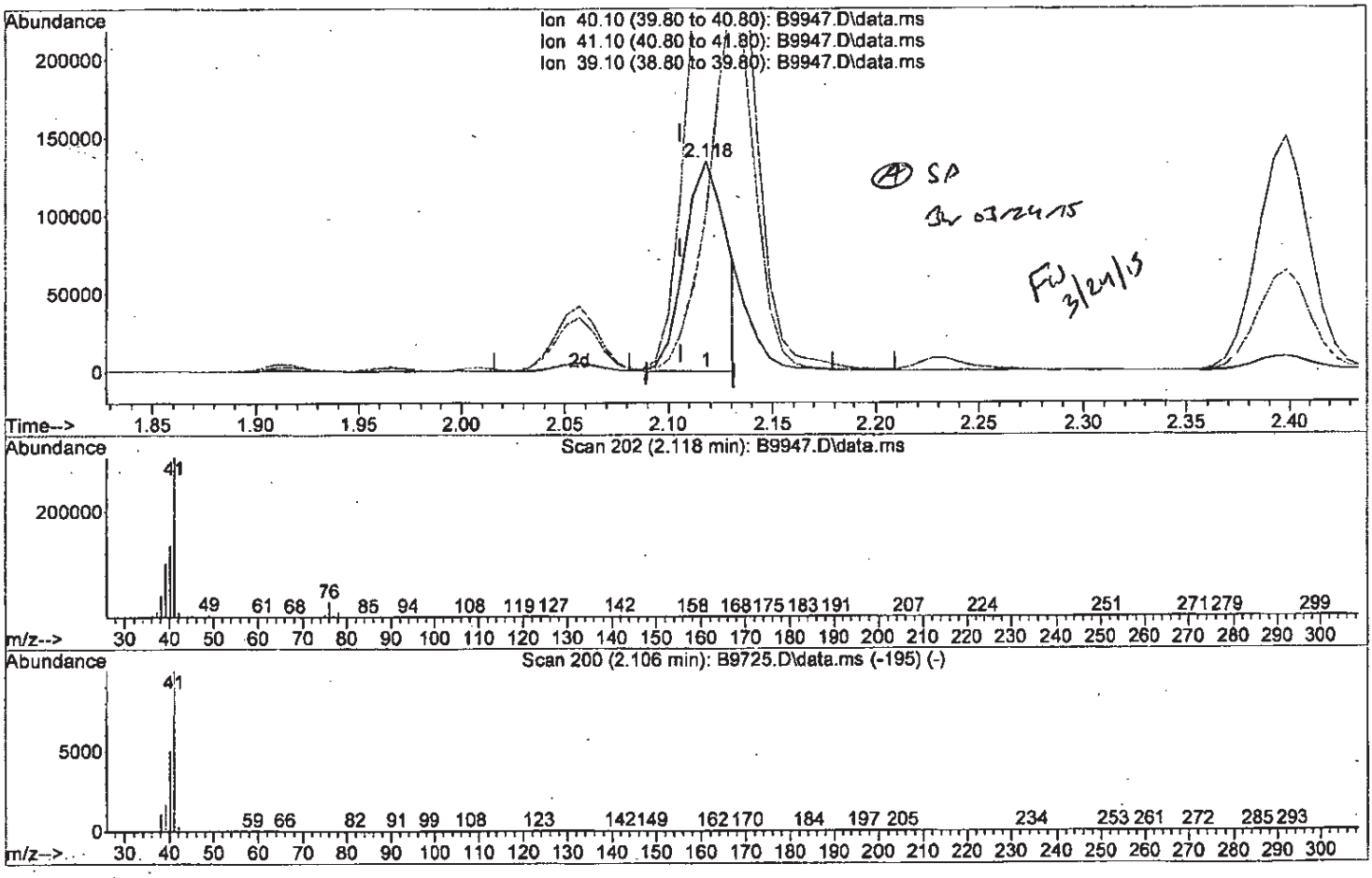
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	225.07#
39.10	34.40	75.78#
0.00	0.00	0.00

00409

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9947.D
Acq On : 20 Mar 2015 7:23 pm
Operator : B WOJTASIEWICZ
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 23 06:31:04 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9947.D\data.ms

(20) Acetonitrile

2.118min (+0.012) 939.53 ug/L m

response 185027

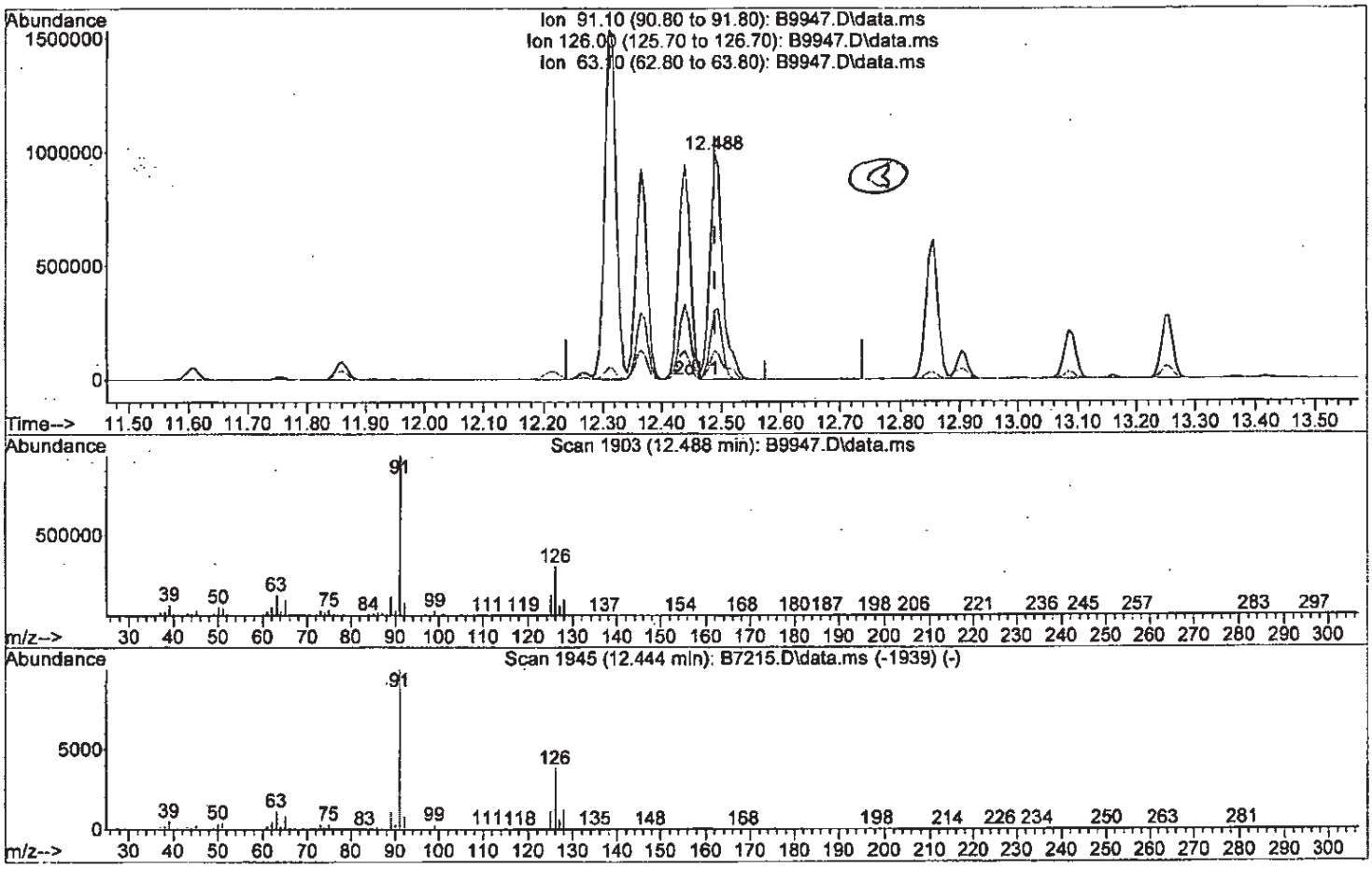
Ion	Exp%	Act%
40.10	100	100
41.10	196.80	225.07#
39.10	34.40	75.78#
0.00	0.00	0.00

00410

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9947.D
Acq On : 20 Mar 2015 7:23 pm
Operator : B WOJTASIEWICZ
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 23 06:31:04 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9947.D\data.ms

(98) 3-Chlorotoluene

12.488min (+0.000) 1973.87 ug/L

response 1483646

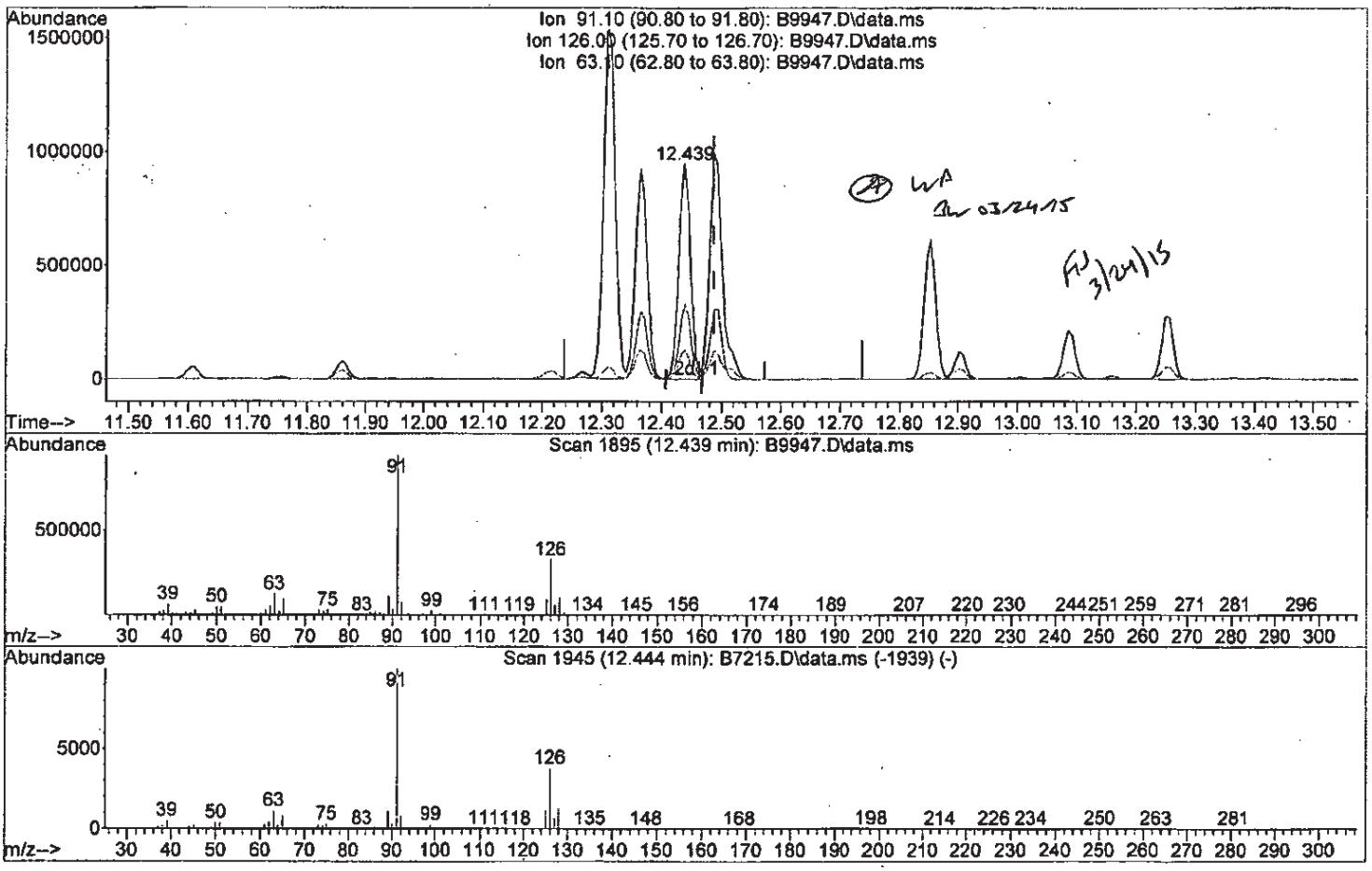
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	30.50
63.10	11.90	12.76
0.00	0.00	0.00

00411

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9947.D
Acq On : 20 Mar 2015 7:23 pm
Operator : B WOJTASIEWICZ
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 23 06:31:04 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



TIC: B9947.D\data.ms

(98) 3-Chlorotoluene

12.439min (-0.049) 1670.06 ug/L m

response 1255288

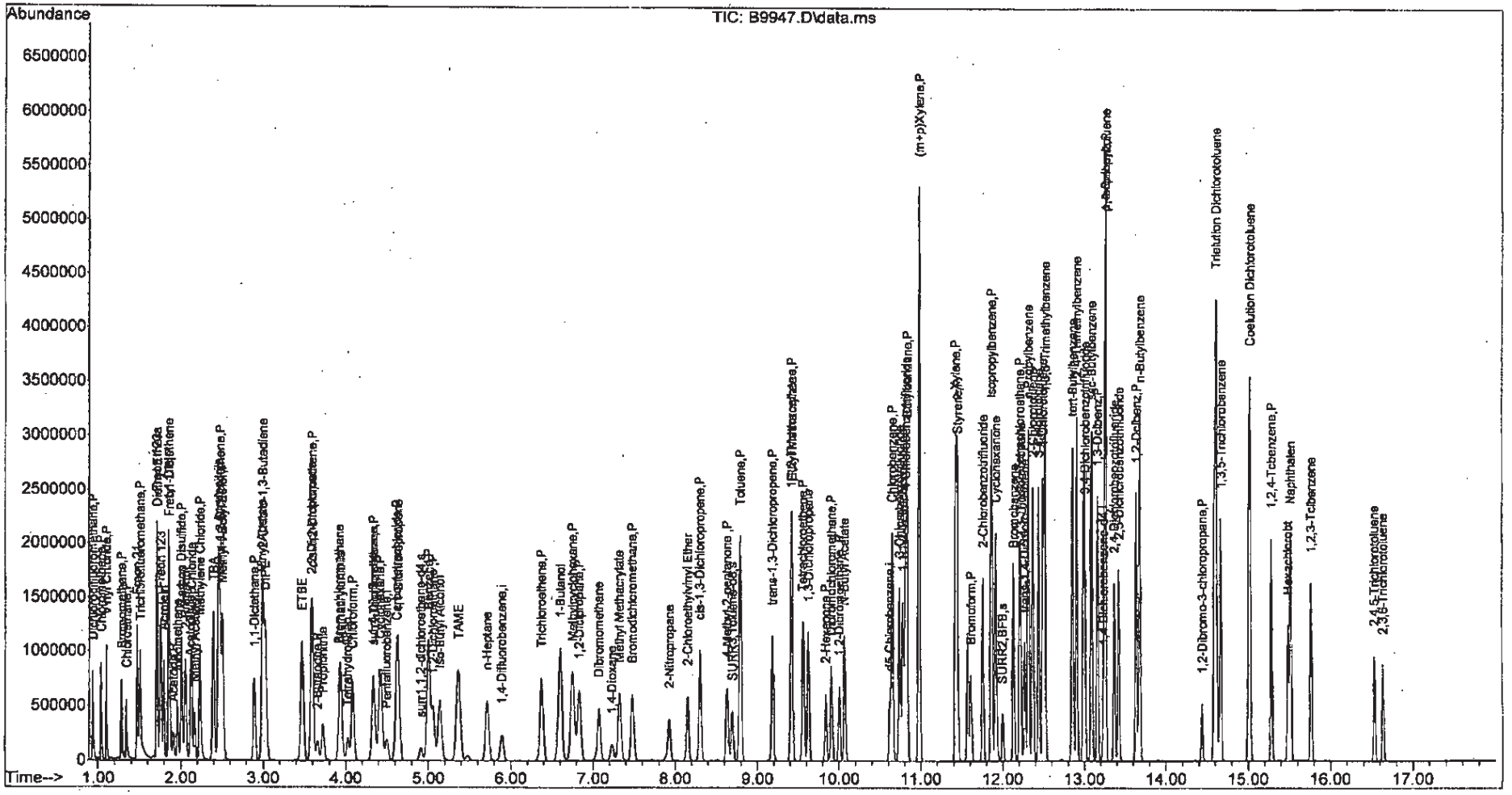
Ion	Exp%	Act%
91.10	100	100
126.00	35.40	34.62
63.10	11.90	13.25
0.00	0.00	0.00

00412

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9947.D
Acq On : 20 Mar 2015 7:23 pm
Operator : B WOJTASIEWICZ
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 23 08:15:38 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Mar 05 09:46:24 2015
Response via : Initial Calibration



Initial Calibration Verification Summary Report

3w 03/24/15

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
1,1,1,2-Tetrachloroethane	RC1500028-10	T	Average RF	50	48.87	ppm	-2.3	<=30
1,1,1-Trichloroethane (TCA)	RC1500028-10	T	Average RF	50	46.76	ppm	-6.5	<=30
1,1,2,2-Tetrachloroethane	RC1500028-10	T	Average RF	50	47.97	ppm	-4.1	<=30
1,1,2-Trichloroethane	RC1500028-10	T	Average RF	50	48.06	ppm	-3.9	<=30
1,1,2-Trichlorotrifluoroethane	RC1500028-10	T	Average RF	50	47.18	ppm	-5.6	<=30
1,1-Dichloroethane (1,1-DCA)	RC1500028-10	T	Average RF	50	46.66	ppm	-6.7	<=30
1,1-Dichloroethene (1,1-DCE)	RC1500028-10	T	Average RF	50	43.44	ppm	-13.1	<=30
1,1-Dichloropropene	RC1500028-10	T	Average RF	50	46.73	ppm	-6.5	<=30
1,2,3-Trichlorobenzene	RC1500028-10	T	Average RF	50	49.23	ppm	-1.5	<=30
1,2,3-Trichloropropane	RC1500028-10	T	Average RF	50	50.25	ppm	0.5	<=30
1,2,4-Trichlorobenzene	RC1500028-10	T	Average RF	50	50.03	ppm	0.1	<=30
1,2,4-Trimethylbenzene	RC1500028-10	T	Average RF	50	49.39	ppm	-1.2	<=30
1,2-Dibromo-3-chloropropane (DBCP)	RC1500028-10	T	Average RF	50	51.58	ppm	3.2	<=30
1,2-Dibromoethane	RC1500028-10	T	Average RF	50	49.68	ppm	-0.6	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1500028-10	T	Average RF	50	50.49	ppm	1.0	<=30
1,2-Dichlorobenzene	RC1500028-10	T	Average RF	50	47.30	ppm	-5.4	<=30
1,2-Dichloroethane	RC1500028-10	T	Average RF	50	47.15	ppm	-5.7	<=30
1,2-Dichloropropane	RC1500028-10	T	Average RF	50	48.70	ppm	-2.6	<=30
1,3,5-Trichlorobenzene	RC1500028-10	T	Average RF	50	49.66	ppm	-0.7	<=30
1,3,5-Trimethylbenzene	RC1500028-10	T	Average RF	50	49.51	ppm	-1.0	<=30
1,3-Dichlorobenzene	RC1500028-10	T	Average RF	50	48.02	ppm	-4.0	<=30
1,3-Dichloropropane	RC1500028-10	T	Average RF	50	47.25	ppm	-5.5	<=30
1,4-Dichlorobenzene	RC1500028-10	T	Average RF	50	46.80	ppm	-6.4	<=30
1,4-Dioxane	RC1500028-10	T	Average RF	1000	1091	ppm	9.1	<=30
1-Butanol	RC1500028-10	T	Average RF	2500	2478	ppm	-0.9	<=30
1-Chloro-4-(trifluoromethyl)benzene	RC1500028-10	T	Average RF	50	49.40	ppm	-1.2	<=30
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1500028-10	T	Average RF	50	46.90	ppm	-6.2	<=30
2,2-Dichloropropane	RC1500028-10	T	Average RF	50	43.04	ppm	-13.9	<=30
2,3,6-Trichlorotoluene	RC1500028-10	T	Average RF	50	54.55	ppm	9.1	<=30
2,4,5-Trichlorotoluene	RC1500028-10	T	Average RF	50	52.36	ppm	4.7	<=30
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	RC1500028-10	T	Average RF	150	150.1	ppm	0.1	<=30
2,4-Dichlorobenzotrifluoride	RC1500028-10	T	Average RF	50	47.88	ppm	-4.2	<=30
2,5-Dichlorobenzotrifluoride	RC1500028-10	T	Average RF	50	47.88	ppm	-4.2	<=30
2-Butanone (MEK)	RC1500028-10	T	Average RF	50	44.62	ppm	-10.8	<=30
2-Chloro-1,3-butadiene	RC1500028-10	T	Average RF	50	40.25	ppm	-19.5	<=30
2-Chlorobenzotrifluoride	RC1500028-10	T	Average RF	50	48.85	ppm	-2.3	<=30
2-Chloroethyl Vinyl Ether	RC1500028-10	T	Average RF	50	46.30	ppm	-7.4	<=30
2-Chlorotoluene	RC1500028-10	T	Average RF	50	47.54	ppm	-4.9	<=30
2-Hexanone	RC1500028-10	T	Average RF	50	48.62	ppm	-2.8	<=30
2-Methyl-1-propanol	RC1500028-10	T	Average RF	1000	1010	ppm	1.0	<=30
2-Methyl-2-propanol	RC1500028-10	T	Average RF	1000	996.3	ppm	-0.4	<=30
2-Nitropropane	RC1500028-10	T	Average RF	100	102.0	ppm	2.0	<=30
2-Propanol	RC1500028-10	T	Average RF	1000	968.6	ppm	-3.1	<=30
3,4- and 2,3-Dichlorotoluene Coelution	RC1500028-10	T	Average RF	100	101.6	ppm	1.6	<=30
3,4-Dichlorobenzotrifluoride	RC1500028-10	T	Average RF	50	49.66	ppm	-0.7	<=30
3-Chloro-1-propene	RC1500028-10	T	Average RF	50	42.48	ppm	-15.0	<=30
3-Chlorobenzotrifluoride	RC1500028-10	T	Average RF	50	49.26	ppm	-1.5	<=30
3-Chlorotoluene	RC1500028-10	T	Average RF	50	49.51	ppm	-1.0	<=30
4-Chlorotoluene	RC1500028-10	T	Average RF	50	48.72	ppm	-2.6	<=30
4-Isopropyltoluene	RC1500028-10	T	Average RF	50	50.49	ppm	1.0	<=30
4-Methyl-2-pentanone	RC1500028-10	T	Average RF	50	48.98	ppm	-2.0	<=30

00414

Initial Calibration Verification Summary Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Acetone	RC1500028-10	T	Average RF	50	45.89	ppm	-8.2	<=30
Acetonitrile	RC1500028-10	T	Average RF	250	212.3	ppm	-15.1	<=30
Acrolein	RC1500028-10	T	Average RF	100	90.06	ppm	-9.9	<=30
Acrylonitrile	RC1500028-10	T	Average RF	250	234.7	ppm	-6.1	<=30
Benzene	RC1500028-10	T	Average RF	50	46.48	ppm	-7.0	<=30
Bromobenzene	RC1500028-10	T	Average RF	50	48.17	ppm	-3.7	<=30
Bromochloromethane	RC1500028-10	T	Average RF	50	47.71	ppm	-4.6	<=30
Bromodichloromethane	RC1500028-10	T	Average RF	50	49.91	ppm	-0.2	<=30
Bromoform	RC1500028-10	T	Average RF	50	52.13	ppm	4.3	<=30
Bromomethane	RC1500028-11	T	Average RF	20	20.43	ppm	2.2	<=30
Carbon Disulfide	RC1500028-10	T	Average RF	50	47.11	ppm	-5.8	<=30
Carbon Tetrachloride	RC1500028-10	T	Average RF	50	50.35	ppm	0.7	<=30
Chlorobenzene	RC1500028-10	T	Average RF	50	46.67	ppm	-6.7	<=30
Chloroethane	RC1500028-10	T	Average RF	50	46.40	ppm	-7.2	<=30
Chloroform	RC1500028-10	T	Average RF	50	47.19	ppm	-5.6	<=30
Chloromethane	RC1500028-10	T	Average RF	50	46.89	ppm	-6.2	<=30
Cyclohexane	RC1500028-10	T	Average RF	50	46.06	ppm	-7.9	<=30
Cyclohexanone	RC1500028-10	T	Average RF	1000	1011	ppm	1.1	<=30
Dibromochloromethane	RC1500028-10	T	Average RF	50	50.21	ppm	0.4	<=30
Dibromomethane	RC1500028-10	T	Average RF	50	49.38	ppm	-1.2	<=30
Dichlorodifluoromethane (CFC 12)	RC1500028-10	T	Average RF	50	48.60	ppm	-2.8	<=30
Dichlorofluoromethane (CFC 21)	RC1500028-10	T	Average RF	50	52.34	ppm	4.7	<=30
Dichloromethane	RC1500028-10	T	Average RF	50	44.37	ppm	-11.3	<=30
Diethyl Ether	RC1500028-10	T	Average RF	50	50.21	ppm	0.4	<=30
Diisopropyl Ether	RC1500028-10	T	Average RF	50	41.02	ppm	-18.0	<=30
Ethyl Methacrylate	RC1500028-10	T	Average RF	50	49.87	ppm	-0.3	<=30
Ethyl tert-Butyl Ether	RC1500028-10	T	Average RF	50	40.72	ppm	-18.6	<=30
Ethylbenzene	RC1500028-10	T	Average RF	50	43.67	ppm	-12.7	<=30
Hexachlorobutadiene	RC1500028-10	T	Average RF	50	51.47	ppm	2.9	<=30
Iodomethane	RC1500028-10	T	Average RF	50	45.46	ppm	-9.1	<=30
Isopropylbenzene (Cumene)	RC1500028-10	T	Average RF	50	48.99	ppm	-2.0	<=30
Methacrylonitrile	RC1500028-10	T	Average RF	50	46.68	ppm	-6.6	<=30
Methyl Acetate	RC1500028-10	T	Average RF	50	46.95	ppm	-6.1	<=30
Methyl Methacrylate	RC1500028-10	T	Average RF	50	49.61	ppm	-0.8	<=30
Methyl tert-Butyl Ether	RC1500028-10	T	Average RF	50	48.30	ppm	-3.4	<=30
Methylcyclohexane	RC1500028-10	T	Average RF	50	46.52	ppm	-7.0	<=30
Naphthalene	RC1500028-10	T	Average RF	50	51.43	ppm	2.9	<=30
Propionitrile	RC1500028-10	T	Average RF	250	243.6	ppm	-2.6	<=30
Styrene	RC1500028-10	T	Average RF	50	49.81	ppm	-0.4	<=30
Tetrachloroethene (PCE)	RC1500028-10	T	Average RF	50	47.57	ppm	-4.9	<=30
Tetrahydrofuran (THF)	RC1500028-10	T	Average RF	50	46.80	ppm	-6.4	<=30
Toluene	RC1500028-10	T	Average RF	50	47.88	ppm	-4.2	<=30
Trichloroethene (TCE)	RC1500028-10	T	Average RF	50	49.20	ppm	-1.6	<=30
Trichlorofluoromethane (CFC 11)	RC1500028-10	T	Average RF	50	47.09	ppm	-5.8	<=30
Vinyl Acetate	RC1500028-10	T	Average RF	50	45.07	ppm	-9.9	<=30
Vinyl Chloride	RC1500028-10	T	Average RF	50	44.57	ppm	-10.9	<=30
cis-1,2-Dichloroethene	RC1500028-10	T	Average RF	50	46.49	ppm	-7.0	<=30
cis-1,3-Dichloropropene	RC1500028-10	T	Average RF	50	48.23	ppm	-3.5	<=30
m,p-Xylenes	RC1500028-10	T	Average RF	100	96.26	ppm	-3.7	<=30
n-Butyl Acetate	RC1500028-10	T	Average RF	50	51.43	ppm	2.9	<=30
n-Butylbenzene	RC1500028-10	T	Average RF	50	50.95	ppm	1.9	<=30

00415

Initial Calibration Verification Summary Report

Calibration ID: RC1500028 **Instrument ID:** R-MS-14
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
n-Heptane	RC1500028-10	T	Quadratic	50	50.86	ppm	1.7	<=30
n-Propylbenzene	RC1500028-10	T	Average RF	50	49.30	ppm	-1.4	<=30
o-Xylene	RC1500028-10	T	Average RF	50	48.04	ppm	-3.9	<=30
sec-Butylbenzene	RC1500028-10	T	Average RF	50	50.18	ppm	0.4	<=30
tert-Amyl Methyl Ether	RC1500028-10	T	Average RF	50	43.48	ppm	-13.0	<=30
tert-Butylbenzene	RC1500028-10	T	Average RF	50	49.38	ppm	-1.2	<=30
trans-1,2-Dichloroethene	RC1500028-10	T	Average RF	50	44.82	ppm	-10.4	<=30
trans-1,3-Dichloropropene	RC1500028-10	T	Average RF	50	49.25	ppm	-1.5	<=30
trans-1,4-Dichloro-2-butene	RC1500028-10	T	Average RF	50	42.56	ppm	-14.9	<=30
1,2-Dichloroethane-d4	RC1500028-10	S	Average RF	50	51.01	ppm	2.0	<=30
4-Bromofluorobenzene	RC1500028-10	S	Average RF	50	51.14	ppm	2.3	<=30
Dibromofluoromethane	RC1500028-10	S	Average RF	50	51.34	ppm	2.7	<=30
Toluene-d8	RC1500028-10	S	Average RF	50	51.00	ppm	2.0	<=30

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9949.D
Acq On : 20 Mar 2015 8:11 pm
Operator : B WOJTASIEWICZ
Sample : ICV 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 23 08:54:09 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

BL 03/24/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.496	168	172096	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.892	114	277588	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.617	117	249334	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	122676	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.337	113	86850	51.34	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.68%			
48) surr1,1,2-dichloroetha...	4.910	65	108222	51.01	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.02%			
65) SURR3,Toluene-d8	8.696	98	325115	51.00	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.00%			
70) SURR2,BFB	11.994	95	128315	51.14	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.936	85	92517	48.60	ug/L	98
4) Chloromethane	1.033	50	93933	46.89	ug/L	99
5) Vinyl Chloride	1.100	62	92894	44.57	ug/L	97
6) Bromomethane	1.283	94	40519	34.56	ug/L	100
7) Chloroethane	1.344	64	63369	46.40	ug/L	95
8) Freon 21	1.472	67	190895	52.34	ug/L	100
9) Trichlorofluoromethane	1.509	101	129053	47.09	ug/L	99
10) Diethyl Ether	1.716	59	82956	50.21	ug/L	97
11) Freon 123a	1.710	67	112789	50.49	ug/L	99
12) Freon 123	1.759	83	126240	46.90	ug/L	99
13) Acrolein	1.795	56	39201	90.06	ug/L	99
14) 1,1-Diclethene	1.856	96	76958	43.44	ug/L	96
15) Freon 113	1.862	101	74378	47.18	ug/L	95
16) Acetone	1.911	43	39563	45.89	ug/L	95
17) 2-Propanol	2.045	45	191061	968.65	ug/L	98
18) Iodomethane	1.966	142	84497	45.46	ug/L	98
19) Carbon Disulfide	2.008	76	232049	47.11	ug/L	98
20) Acetonitrile	2.112	40	38793m	212.32	ug/L	
21) Allyl Chloride	2.130	76	40069	42.48	ug/L #	79
22) Methyl Acetate	2.167	43	84112	46.95	ug/L	98
23) Methylene Chloride	2.234	84	89211	44.37	ug/L	98
24) TBA	2.393	59	315142	996.34	ug/L	100
25) Acrylonitrile	2.454	53	219417	234.73	ug/L	98
26) Methyl-t-Butyl Ether	2.502	73	286587	48.30	ug/L	100
27) trans-1,2-Dichloroethene	2.478	96	82005	44.82	ug/L	99
28) 1,1-Diclethane	2.892	63	144763	46.66	ug/L	97
29) Vinyl Acetate	2.984	86	20436	45.07	ug/L #	87
30) DIPE	3.027	45	218876	41.02	ug/L	98
31) 2-Chloro-1,3-Butadiene	2.996	53	120941	40.25	ug/L	98
32) ETBE	3.472	59	234041	40.72	ug/L	98
33) 2,2-Dichloropropane	3.587	77	110520	43.04	ug/L	96
34) cis-1,2-Dichloroethene	3.600	96	94711	46.49	ug/L	92
35) 2-Butanone	3.655	43	54424	44.62	ug/L	98
36) Propionitrile	3.715	54	93218	243.56	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9949.D
Acq On : 20 Mar 2015 8:11 pm
Operator : B WOJTASIEWICZ
Sample : ICV 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 23 08:54:09 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	3.923	130	58428	47.71	ug/L		96
38) Methacrylonitrile	3.935	67	49249	46.68	ug/L		92
39) Tetrahydrofuran	4.020	42	34544	46.80	ug/L		98
40) Chloroform	4.081	83	155815	47.19	ug/L		98
41) 1,1,1-Trichloroethane	4.337	97	129941	46.76	ug/L		99
42) TAME	5.362	73	242934	43.48	ug/L		99
44) Cyclohexane	4.423	41	70562	46.06	ug/L		98
46) Carbontetrachloride	4.618	121	30718	50.35	ug/L		99
47) 1,1-Dichloropropene	4.630	75	104544	46.73	ug/L		99
49) Benzene	5.002	78	335783	46.48	ug/L		99
50) 1,2-Dichloroethane	5.057	62	130915	47.15	ug/L		99
51) Iso-Butyl Alcohol	5.124	43	118731	1010.26	ug/L		99
52) n-Heptane	5.709	43	72112	50.86	ug/L		96
53) 1-Butanol	6.581	56	193061	2478.07	ug/L		100
54) Trichloroethene	6.373	130	89091	49.20	ug/L		98
55) Methylcyclohexane	6.751	55	101675	46.52	ug/L		97
56) 1,2-Diclpropane	6.837	63	87728	48.70	ug/L		97
57) Dibromomethane	7.068	93	62159	49.38	ug/L		100
58) 1,4-Dioxane	7.221	88	38548	1091.00	ug/L		98
59) Methyl Methacrylate	7.318	69	81765	49.61	ug/L		94
60) Bromodichloromethane	7.483	83	120857	49.91	ug/L		100
61) 2-Nitropropane	7.922	41	62962	102.00	ug/L		99
62) 2-Chloroethylvinyl Ether	8.148	63	65389	46.30	ug/L		94
63) cis-1,3-Dichloropropene	8.300	75	138317	48.23	ug/L		97
64) 4-Methyl-2-pentanone	8.629	43	110317	48.98	ug/L		100
66) Toluene	8.788	91	369575	47.88	ug/L		99
67) trans-1,3-Dichloropropene	9.184	75	132701	49.25	ug/L		98
68) Ethyl Methacrylate	9.422	69	142773	49.87	ug/L		100
69) 1,1,2-Trichloroethane	9.416	97	88634	48.06	ug/L		98
72) Tetrachloroethene	9.556	164	65695	47.57	ug/L		99
73) 2-Hexanone	9.830	43	82377	48.62	ug/L		99
74) 1,3-Dichloropropane	9.623	76	150563	47.25	ug/L		99
75) Dibromochloromethane	9.903	129	91159	50.21	ug/L		97
76) N-Butyl Acetate	10.062	43	174363	51.43	ug/L		99
77) 1,2-Dibromoethane	10.001	107	98421	49.68	ug/L		97
78) 3-Chlorobenzotrifluoride	10.739	180	115725	49.26	ug/L		98
79) Chlorobenzene	10.647	112	236300	46.67	ug/L		99
80) 4-Chlorobenzotrifluoride	10.812	180	101998	49.40	ug/L		96
81) 1,1,1,2-Tetrachloroethane	10.775	131	81851	48.87	ug/L		98
82) Ethylbenzene	10.830	106	118192	43.67	ug/L	#	90
83) (m+p)Xylene	10.976	106	312206	96.26	ug/L		99
84) o-Xylene	11.421	106	154502	48.04	ug/L		97
85) Styrene	11.440	104	271142	49.81	ug/L		99
86) Bromoform	11.610	173	64334	52.13	ug/L		100
87) 2-Chlorobenzotrifluoride	11.757	180	112611	48.85	ug/L		97
88) Isopropylbenzene	11.860	105	396876	48.99	ug/L		100
89) Cyclohexanone	11.909	55	169488	1011.42	ug/L		100
90) trans-1,4-Dichloro-2-B...	12.269	53	33280	42.56	ug/L		95
92) 1,1,2,2-Tetrachloroethane	12.202	83	135580	47.97	ug/L		100
93) Bromobenzene	12.128	156	97338	48.17	ug/L		95
95) 1,2,3-Trichloropropane	12.220	110	43249	50.25	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9949.D
Acq On : 20 Mar 2015 8:11 pm
Operator : B WOJTASIEWICZ
Sample : ICV 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 23 08:54:09 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

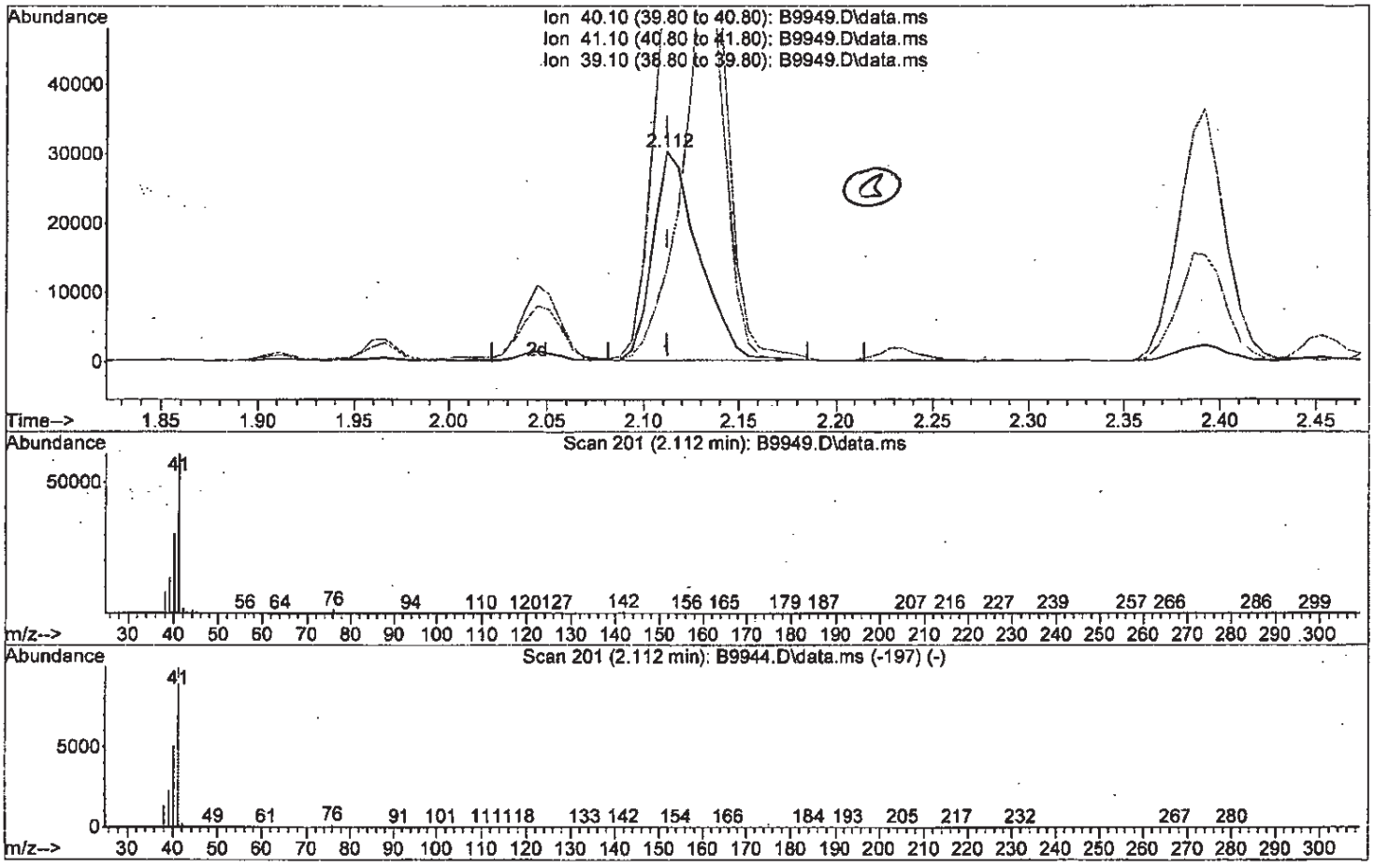
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96)	n-Propylbenzene	12.311	91	465500	49.30	ug/L	99
97)	2-Chlorotoluene	12.366	91	276659	47.54	ug/L	98
98)	3-Chlorotoluene	12.439	91	291443	49.51	ug/L	100
99)	4-Chlorotoluene	12.488	91	329485	48.72	ug/L	97
100)	1,3,5-Trimethylbenzene	12.519	105	323940	49.51	ug/L	99
101)	tert-Butylbenzene	12.854	119	273852	49.38	ug/L	99
102)	1,2,4-Trimethylbenzene	12.903	105	330979	49.39	ug/L	99
103)	3,4-Dichlorobenzotrifl...	13.006	214	81951	49.66	ug/L	99
104)	sec-Butylbenzene	13.086	105	409853	50.18	ug/L	99
105)	p-Isopropyltoluene	13.250	119	339607	50.49	ug/L	98
106)	1,3-Dclbenz	13.159	146	183836	48.02	ug/L	97
107)	1,4-Dclbenz	13.256	146	189141	46.80	ug/L	99
108)	2,4-Dichlorobenzotrifl...	13.366	214	73155	47.88	ug/L	99
109)	2,5-Dichlorobenzotrifl...	13.421	214	82957	47.88	ug/L	95
111)	n-Butylbenzene	13.677	91	322726	50.95	ug/L	98
112)	1,2-Dclbenz	13.634	146	181589	47.30	ug/L	97
113)	1,2-Dibromo-3-chloropr...	14.439	157	25713	51.58	ug/L	97
114)	Trielution Dichlorotol...	14.604	125	482516	150.09	ug/L	97
115)	1,3,5-Trichlorobenzene	14.665	180	122722	49.66	ug/L	98
116)	Coelution Dichlorotoluene	15.012	125	346444	101.61	ug/L	99
117)	1,2,4-Tcbenzene	15.280	180	107649	50.03	ug/L	99
118)	Hexachlorobt	15.481	225	39588	51.47	ug/L	100
119)	Naphthalen	15.512	128	304450	51.43	ug/L	100
120)	1,2,3-Tclbenzene	15.762	180	88104	49.23	ug/L	100
121)	2,4,5-Trichlorotoluene	16.530	159	44227	52.36	ug/L	99
122)	2,3,6-Trichlorotoluene	16.634	159	41294	54.55	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9949.D
Acq On : 20 Mar 2015 8:11 pm
Operator : B WOJTASIEWICZ
Sample : ICV 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 23 08:53:51 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration



TIC: B9949.D\data.ms

(20) Acetonitrile

2.112min (+0.000) 275.42 ug/L

response 50322

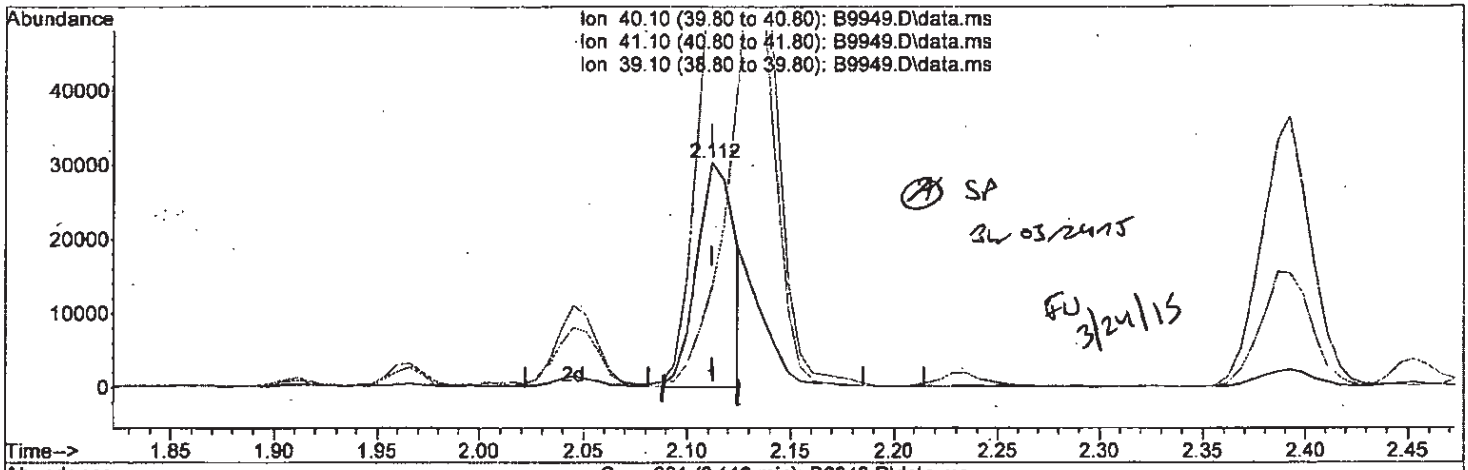
Ion	Exp%	Act%
40.10	100	100
41.10	193.60	200.58
39.10	44.50	44.87
0.00	0.00	0.00

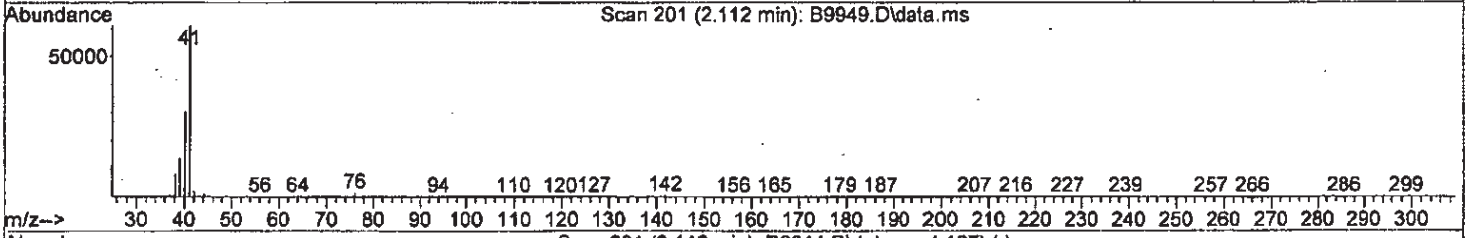
00420

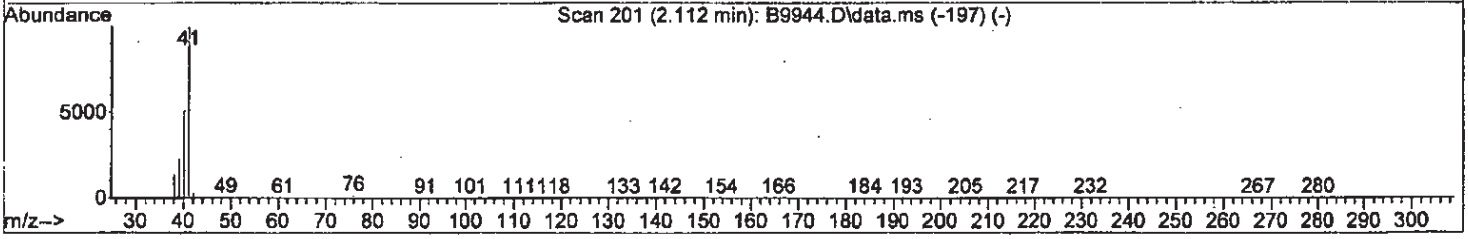
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9949.D
Acq On : 20 Mar 2015 8:11 pm
Operator : B WOJTASIEWICZ
Sample : ICV 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 23 08:53:51 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration







TIC: B9949.D\data.ms

(20) Acetonitrile

2.112min (+0.000) 212.32 ug/L m

response 38793

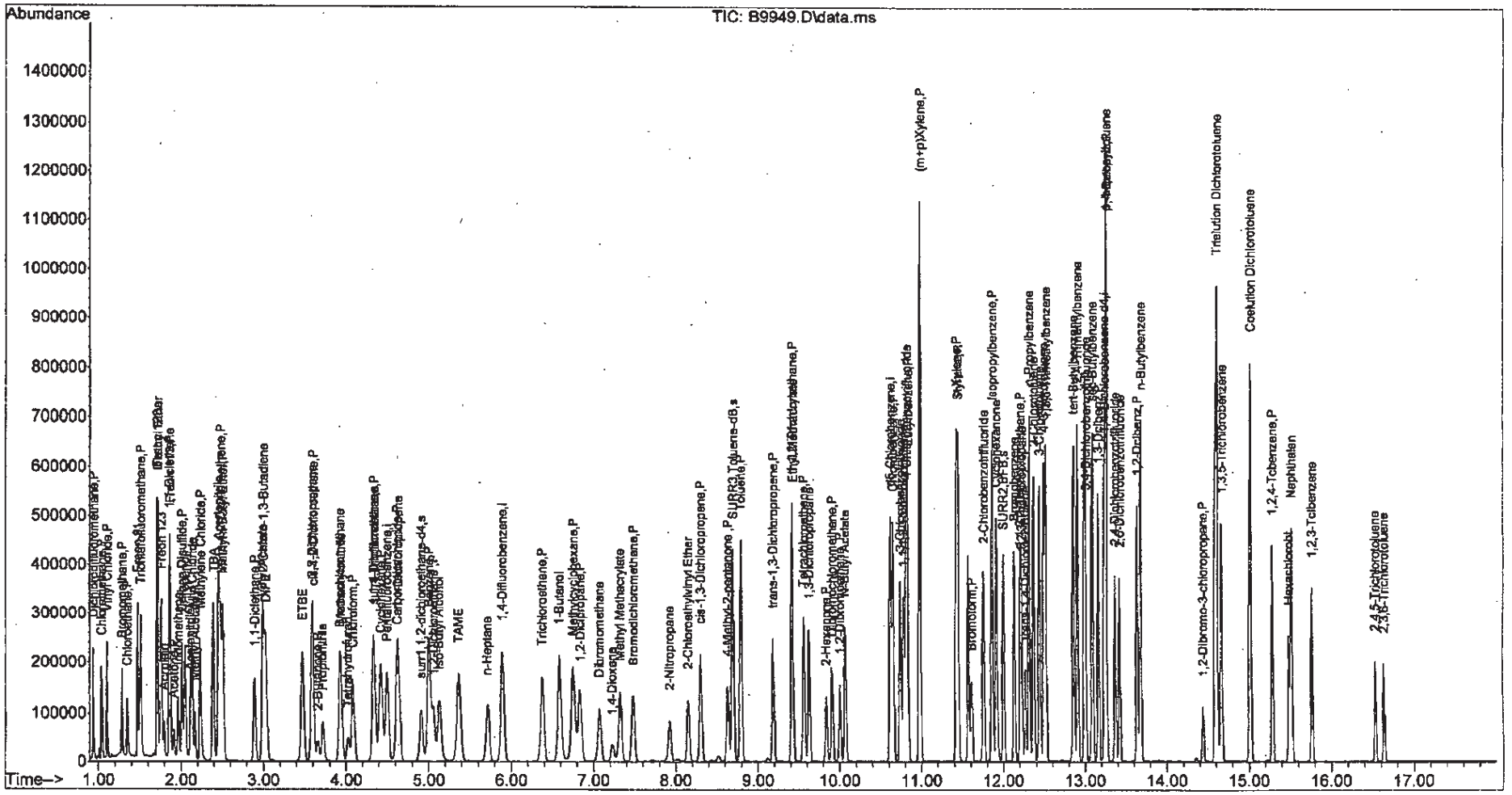
Ion	Exp%	Act%
40.10	100	100
41.10	193.60	200.58
39.10	44.50	44.87
0.00	0.00	0.00

00421

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9949.D
Acq On : 20 Mar 2015 8:11 pm
Operator : B WOJTASIEWICZ
Sample : ICV 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 23 08:54:09 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9957.D
Acq On : 23 Mar 2015 9:35 am
Operator : B WOJTASIEWICZ
Sample : LCS/ICV 20ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

BL 03/24/15

Quant Time: Mar 24 06:48:47 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	179370	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.886	114	299110	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.617	117	265294	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	126254	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.331	113	94561	51.88	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.76%			
48) surr1,1,2-dichloroetha...	4.904	65	117731	51.50	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.00%			
65) SURR3,Toluene-d8	8.690	98	353049	51.39	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.78%			
70) SURR2,BFB	11.994	95	139242	51.50	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.936	85	41243	20.79	ug/L	99
4) Chloromethane	1.033	50	39410	18.87	ug/L	96
5) Vinyl Chloride	1.100	62	40879	18.82	ug/L	96
6) Bromomethane	1.283	94	24965	20.43	ug/L	97
7) Chloroethane	1.350	64	26357	18.52	ug/L	97
8) Freon 21	1.478	67	78926	20.76	ug/L	100
9) Trichlorofluoromethane	1.515	101	55812	19.54	ug/L	100
10) Diethyl Ether	1.710	59	34229	19.88	ug/L	96
11) Freon 123a	1.710	67	48184	20.69	ug/L	100
12) Freon 123	1.759	83	53860	19.20	ug/L	96
13) Acrolein	1.789	56	15004	33.07	ug/L	95
14) 1,1-Diclethene	1.862	96	32708	17.71	ug/L	91
15) Freon 113	1.868	101	33234	20.23	ug/L	91
16) Acetone	1.905	43	12848	14.30	ug/L	95
17) 2-Propanol	2.027	45	55734	271.10	ug/L	99
18) Iodomethane	1.966	142	31813	16.42	ug/L	97
19) Carbon Disulfide	2.015	76	93183	18.15	ug/L	99
20) Acetonitrile	2.106	40	15594m	81.89	ug/L	
21) Allyl Chloride	2.130	76	19380	19.71	ug/L	94
22) Methyl Acetate	2.167	43	29932	16.03	ug/L	97
23) Methylene Chloride	2.234	84	38353	18.30	ug/L	99
24) TBA	2.374	59	92140	279.49	ug/L	98
25) Acrylonitrile	2.447	53	78527	80.60	ug/L	97
26) Methyl-t-Butyl Ether	2.496	73	119724	19.36	ug/L	100
27) trans-1,2-Dichloroethene	2.478	96	36203	18.98	ug/L	98
28) 1,1-Diclethane	2.886	63	62600	19.36	ug/L	98
29) Vinyl Acetate	2.984	86	9143	19.35	ug/L	98
30) DIPE	3.020	45	92764	16.68	ug/L	97
31) 2-Chloro-1,3-Butadiene	2.996	53	51881	16.57	ug/L	99
32) ETBE	3.465	59	98806	16.49	ug/L	98
33) 2,2-Dichloropropane	3.581	77	55472	20.73	ug/L	100
34) cis-1,2-Dichloroethene	3.587	96	41662	19.62	ug/L	98
35) 2-Butanone	3.654	43	18299	14.39	ug/L	98
36) Propionitrile	3.709	54	31377	78.66	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9957.D
Acq On : 23 Mar 2015 9:35 am
Operator : B WOJTASIEWICZ
Sample : LCS/ICV 20ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 06:48:47 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	3.917	130	26347	20.64	ug/L	98
38) Methacrylonitrile	3.929	67	18328	16.67	ug/L	98
39) Tetrahydrofuran	4.020	42	11899	15.47	ug/L	83
40) Chloroform	4.081	83	67688	19.67	ug/L	95
41) 1,1,1-Trichloroethane	4.331	97	55619	19.20	ug/L	95
42) TAME	5.355	73	100268	17.22	ug/L	99
44) Cyclohexane	4.417	41	31782	19.25	ug/L	97
46) Carbontetrachloride	4.618	121	12704	19.32	ug/L	96
47) 1,1-Dichloropropene	4.630	75	45889	19.04	ug/L	97
49) Benzene	4.996	78	146876	18.87	ug/L	99
50) 1,2-Dichloroethane	5.051	62	56111	18.75	ug/L	99
51) Iso-Butyl Alcohol	5.112	43	35461	280.02	ug/L	97
52) n-Heptane	5.715	43	39699	26.65	ug/L	94
53) 1-Butanol	6.562	56	53119	632.76	ug/L	100
54) Trichloroethene	6.373	130	37185	19.06	ug/L	94
55) Methylcyclohexane	6.745	55	48148	20.44	ug/L	97
56) 1,2-Diclpropane	6.825	63	37044	19.09	ug/L	92
57) Dibromomethane	7.062	93	26534	19.56	ug/L	97
58) 1,4-Dioxane	7.221	88	12103	317.90	ug/L	98
59) Methyl Methacrylate	7.318	69	30383	17.11	ug/L	98
60) Bromodichloromethane	7.477	83	52550	20.14	ug/L	99
61) 2-Nitropropane	7.916	41	21487	32.30	ug/L	95
62) 2-Chloroethylvinyl Ether	8.148	63	26311	17.29	ug/L	95
63) cis-1,3-Dichloropropene	8.294	75	61874	20.02	ug/L	98
64) 4-Methyl-2-pentanone	8.623	43	37579	15.48	ug/L	94
66) Toluene	8.788	91	160535	19.30	ug/L	98
67) trans-1,3-Dichloropropene	9.184	75	57627	19.85	ug/L	99
68) Ethyl Methacrylate	9.416	69	53035	17.19	ug/L	94
69) 1,1,2-Trichloroethane	9.409	97	37237	18.74	ug/L	96
72) Tetrachloroethene	9.556	164	28535	19.42	ug/L	95
73) 2-Hexanone	9.830	43	26495	14.70	ug/L	96
74) 1,3-Dichloropropane	9.617	76	63902	18.85	ug/L	98
75) Dibromochloromethane	9.903	129	38027	19.69	ug/L	96
76) N-Butyl Acetate	10.062	43	60624	16.81	ug/L	97
77) 1,2-Dibromoethane	9.995	107	40426	19.18	ug/L	96
78) 3-Chlorobenzotrifluoride	10.732	180	48370	19.35	ug/L	100
79) Chlorobenzene	10.647	112	103638	19.24	ug/L	97
80) 4-Chlorobenzotrifluoride	10.806	180	43599	19.85	ug/L	97
81) 1,1,1,2-Tetrachloroethane	10.775	131	35345	19.83	ug/L	98
82) Ethylbenzene	10.824	106	50739	17.62	ug/L	92
83) (m+p)Xylene	10.970	106	136749	39.62	ug/L	97
84) o-Xylene	11.421	106	65759	19.22	ug/L	98
85) Styrene	11.440	104	113518	19.60	ug/L	99
86) Bromoform	11.604	173	24734	18.84	ug/L	99
87) 2-Chlorobenzotrifluoride	11.750	180	46605	19.00	ug/L	98
88) Isopropylbenzene	11.860	105	166321	19.29	ug/L	98
89) Cyclohexanone	11.909	55	52629	295.17	ug/L	99
90) trans-1,4-Dichloro-2-B...	12.263	53	12202	14.67	ug/L	97
92) 1,1,2,2-Tetrachloroethane	12.202	83	52561	18.07	ug/L	96
93) Bromobenzene	12.128	156	42406	20.39	ug/L	98
95) 1,2,3-Trichloropropane	12.220	110	15826	17.87	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9957.D
Acq On : 23 Mar 2015 9:35 am
Operator : B WOJTASIEWICZ
Sample : LCS/ICV 20ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 06:48:47 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

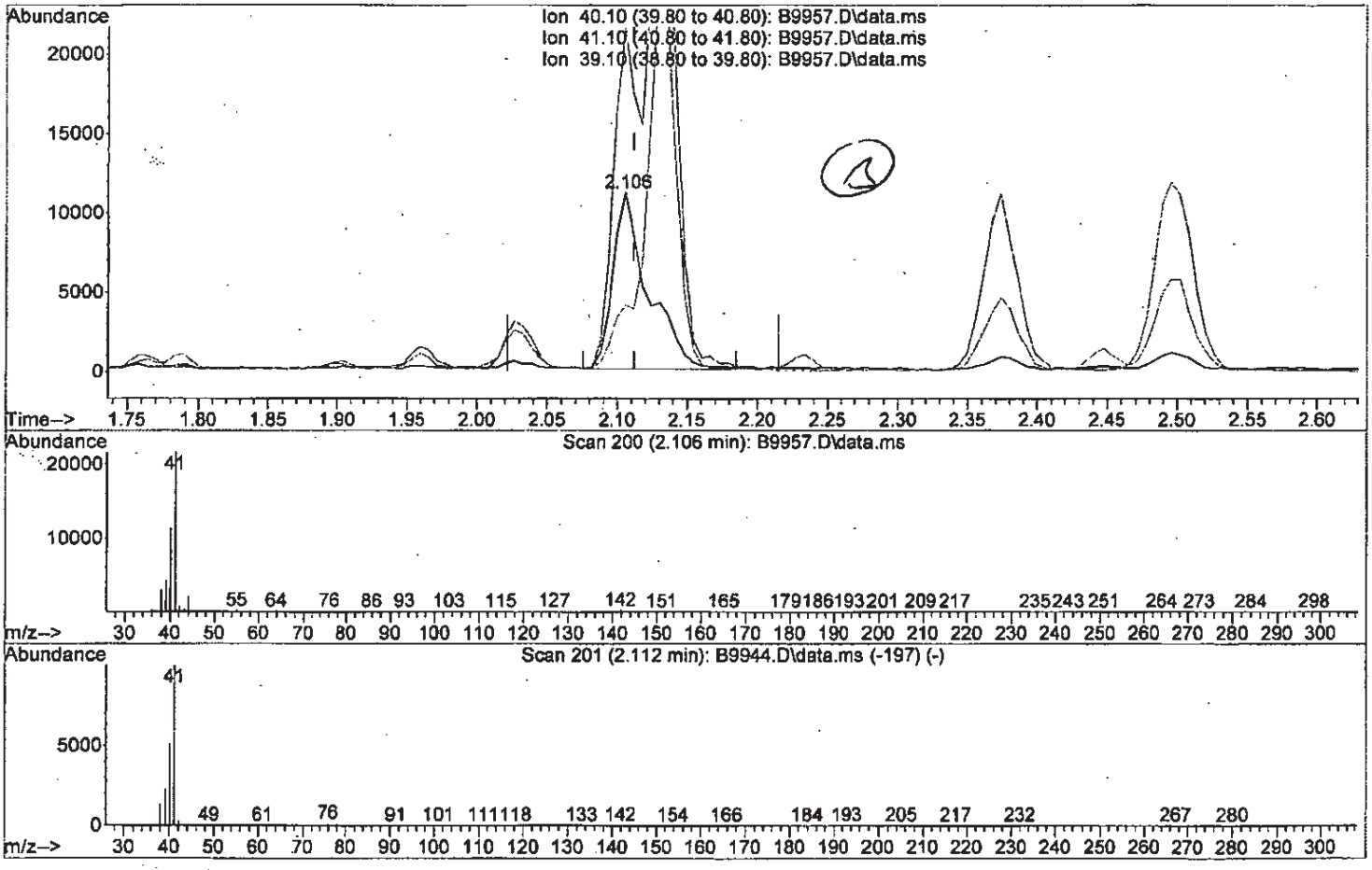
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96)	n-Propylbenzene	12.311	91	197246	20.30	ug/L	98
97)	2-Chlorotoluene	12.366	91	120729	20.16	ug/L	97
98)	3-Chlorotoluene	12.433	91	118828	19.61	ug/L	98
99)	4-Chlorotoluene	12.488	91	142504	20.47	ug/L	99
100)	1,3,5-Trimethylbenzene	12.512	105	138686	20.60	ug/L	98
101)	tert-Butylbenzene	12.854	119	112850	19.77	ug/L	100
102)	1,2,4-Trimethylbenzene	12.903	105	139972	20.29	ug/L	99
103)	3,4-Dichlorobenzotrifl...	13.006	214	34250	20.17	ug/L	99
104)	sec-Butylbenzene	13.086	105	174733	20.79	ug/L	99
105)	p-Isopropyltoluene	13.250	119	144265	20.84	ug/L	99
106)	1,3-Dclbenz	13.159	146	80200	20.35	ug/L	96
107)	1,4-Dclbenz	13.256	146	82954	19.94	ug/L	99
108)	2,4-Dichlorobenzotrifl...	13.366	214	31738	20.18	ug/L	100
109)	2,5-Dichlorobenzotrifl...	13.421	214	35499	19.91	ug/L	98
111)	n-Butylbenzene	13.677	91	141146	21.65	ug/L	98
112)	1,2-Dclbenz	13.634	146	77048	19.50	ug/L	99
113)	1,2-Dibromo-3-chloropr...	14.439	157	8170	15.92	ug/L	99
114)	Trielution Dichlorotol...	14.604	125	189287	57.21	ug/L	98
115)	1,3,5-Trichlorobenzene	14.665	180	48206	18.95	ug/L	98
116)	Coelution Dichlorotoluene	15.012	125	127996	36.48	ug/L	98
117)	1,2,4-Tcbenzene	15.280	180	40421	18.25	ug/L	99
118)	Hexachlorobt	15.481	225	17735	22.40	ug/L	99
119)	Naphthalen	15.512	128	94635	15.53	ug/L	99
120)	1,2,3-Tclbenzene	15.762	180	29989	16.28	ug/L	98
121)	2,4,5-Trichlorotoluene	16.530	159	16120	18.54	ug/L	97
122)	2,3,6-Trichlorotoluene	16.634	159	14927	19.16	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9957.D
Acq On : 23 Mar 2015 9:35 am
Operator : B WOJTASIEWICZ
Sample : LCS/ICV 20ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 06:47:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration



TIC: B9957.D\data.ms

(20) Acetonitrile

2.106min (-0.006) 102.47 ug/L

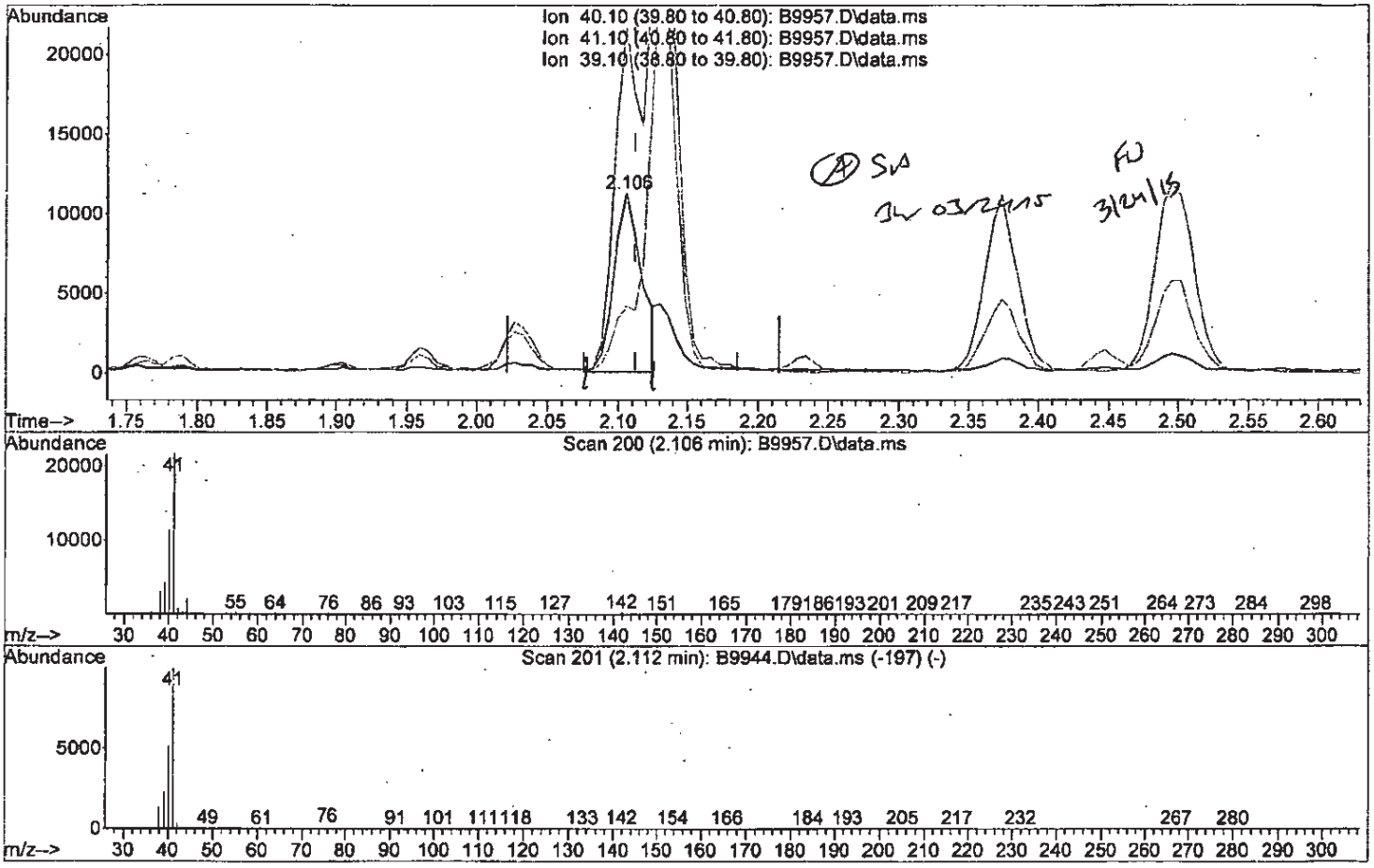
response 19513

Ion	Exp%	Act%
40.10	100	100
41.10	193.60	191.74
39.10	44.50	37.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9957.D
Acq On : 23 Mar 2015 9:35 am
Operator : B WOJTASIEWICZ
Sample : LCS/ICV 20ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 06:47:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration



TIC: B9957.D\data.ms

(20) Acetonitrile

2.106min (-0.006) 81.89 ug/L m

response 15594

Ion	Exp%	Act%
40.10	100	100
41.10	193.60	191.74
39.10	44.50	37.18
0.00	0.00	0.00

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980
Date Analyzed: 3/23/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\MSVOA14\Data\032315\B9956.D\

Calibration Date: 3/20/15
Calibration ID: RC1500028
Analysis Lot: 437305
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	46.9	0.8073	0.7566	-6.3	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	47.6	0.9014	0.8581	-4.8	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	45.1	0.5147	0.4638	-9.9	NA	± 20 %	Average RF
Tetrachloroethene (PCE)	50.0	45.3	0.2769	0.2509	-9.4	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	46.7	0.3262	0.3049	-6.5	NA	± 20 %	Average RF
Vinyl Chloride	50.0	48.5	0.6056	0.5875	-3.0	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	47.4	0.5919	0.5613	-5.2	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	47.0	0.5316	0.4998	-6.0	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	50.7	0.4520	0.4581	1.4	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	50.9	0.3047	0.3102	1.8	NA	± 20 %	Average RF
Toluene-d8	50.0	50.7	1.148	1.165	1.4	NA	± 20 %	Average RF

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9956.D
Acq On : 23 Mar 2015 8:51 am
Operator : B WOJTASIEWICZ
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 09:09:34 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

BLW 03/25/15

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	i	Pentafluorobenzene	1.000	1.000	0.0	115	0.00	
2	P	Dichlorodifluoromethane	0.553	0.569	-2.9	111	0.00	
3		Freon 114	0.000	0.000	0.0	0#	-1.16#	
4	P	Chloromethane	0.582	0.529	9.1	106	0.00	
5	P	Vinyl Chloride	0.606	0.587	3.1	107	0.00	
6	P	Bromomethane	0.341	0.367	-7.6	139	0.00	
7	P	Chloroethane	0.397	0.361	9.1	105	0.00	
8		Freon 21	1.060	0.970	8.5	105	0.00	
9	P	Trichlorofluoromethane	0.796	0.778	2.3	109	0.00	
10		Diethyl Ether	0.480	0.434	9.6	103	0.00	
11		Freon 123a	0.649	0.587	9.6	104	0.00	
12		Freon 123	0.782	0.716	8.4	106	0.00	
13		Acrolein	0.126	0.104	17.5	94	0.00	
14		1,1-Diclethene	0.515	0.464	9.9	108	0.00	
15	P	Freon 113	0.458	0.446	2.6	112	0.00	
16	P	Acetone	0.250	0.162	35.2#	86	0.00	X 1828, 1857
17		2-Propanol	0.057	0.038	33.3#	81	-0.01	X 1957
18		Iodomethane	0.540	0.496	8.1	105	0.00	
19	P	Carbon Disulfide	1.431	1.403	2.0	110	0.00	
20		Acetonitrile	0.053	0.040	24.5#	97	0.00	X 1828, 1857
21		Allyl Chloride	0.274	0.290	-5.8	120	0.00	
22	P	Methyl Acetate	0.521	0.409	21.5#	96	0.00	-NT
23	P	Methylene Chloride	0.584	0.519	11.1	107	0.00	
24		TBA	0.092	0.062	32.6#	81	-0.01	-NT
25		Acrylonitrile	0.272	0.215	21.0#	92	0.00	X 1828, 1857
26	P	Methyl-t-Butyl Ether	1.724	1.537	10.8	102	0.00	
27	P	trans-1,2-Dichloroethene	0.532	0.500	6.0	113	0.00	
28	P	1,1-Diclethane	0.901	0.858	4.8	109	0.00	
29		Vinyl Acetate	0.132	0.131	0.8	107	0.00	
30		DIPE	1.550	1.424	8.1	113	0.00	
31		2-Chloro-1,3-Butadiene	0.873	0.835	4.4	110	0.00	
32		ETBE	1.670	1.533	8.2	111	0.00	
33		2,2-Dichloropropane	0.746	0.774	-3.8	120	0.00	
34	P	cis-1,2-Dichloroethene	0.592	0.561	5.2	109	0.00	
35	P	2-Butanone	0.354	0.243	31.4#	90	0.00	X 1828, 1857
36		Propionitrile	0.111	0.084	24.3#	89	0.00	X 1828, 1857
37		Bromochloromethane	0.356	0.346	2.8	108	0.00	
38		Methacrylonitrile	0.307	0.245	20.2#	95	0.00	X 1828, 1857
39		Tetrahydrofuran	0.214	0.151	29.4#	88	0.00	X 1957
40	P	Chloroform	0.959	0.913	4.8	109	0.00	
41	P	1,1,1-Trichloroethane	0.807	0.757	6.2	109	0.00	
42		TAME	1.623	1.474	9.2	109	0.00	
43	i	1,4-Difluorobenzene	1.000	1.000	0.0	114	0.00	
44	P	Cyclohexane	0.276	0.256	7.2	111	0.00	
45	s	surr4,Dibrflmethane	0.305	0.310	-1.6	115	0.00	
46	P	Carbontetrachloride	0.110	0.108	1.8	108	0.00	

00429

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9956.D
Acq On : 23 Mar 2015 8:51 am
Operator : B WOJTASIEWICZ
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 09:09:34 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
47		1,1-Dichloropropene	0.403	0.394	2.2	114	0.00	
48	s	surr1,1,2-dichloroethane-d4	0.382	0.384	-0.5	113	0.00	
49	P	Benzene	1.301	1.205	7.4	109	0.00	
50	P	1,2-Dichloroethane	0.500	0.456	8.8	105	0.00	
51		Iso-Butyl Alcohol	0.021	0.014	33.3#	83	-0.01	X 1828, 1857
52		n-Heptane	0.301	0.276	8.3	121	0.00	
53		1-Butanol	0.014	0.010	28.6#	81	-0.02	-NT
54	P	Trichloroethene	0.326	0.305	6.4	110	0.00	
55	P	Methylcyclohexane	0.394	0.385	2.3	116	0.00	
56	P	1,2-Diclpropane	0.324	0.304	6.2	108	0.00	
57		Dibromomethane	0.227	0.214	5.7	106	0.00	
58		1,4-Dioxane	0.006	0.005	16.7	86	0.00	
59		Methyl Methacrylate	0.297	0.249	16.2	96	0.00	
60	P	Bromodichloromethane	0.436	0.423	3.0	109	0.00	
61		2-Nitropropane	0.111	0.086	22.5#	93	0.00	-NT
62		2-Chloroethylvinyl Ether	0.254	0.225	11.4	100	0.00	
63	P	cis-1,3-Dichloropropene	0.517	0.515	0.4	111	0.00	
64	P	4-Methyl-2-pentanone	0.406	0.303	25.4#	89	0.00	X 1828, 1857
65	s	SURR3,Toluene-d8	1.148	1.165	-1.5	114	0.00	
66	P	Toluene	1.390	1.303	6.3	109	0.00	
67	P	trans-1,3-Dichloropropene	0.485	0.484	0.2	110	0.00	
68		Ethyl Methacrylate	0.516	0.462	10.5	100	0.00	
69	P	1,1,2-Trichloroethane	0.332	0.303	8.7	102	0.00	
70	s	SURR2,BFB	0.452	0.458	-1.3	113	0.00	
71	i	d5-Chlorobenzene	1.000	1.000	0.0	116	0.00	
72	P	Tetrachloroethene	0.277	0.251	9.4	111	0.00	
73	P	2-Hexanone	0.340	0.240	29.4#	88	0.00	X 1828, 1857
74		1,3-Dichloropropane	0.639	0.572	10.5	106	0.00	
75	P	Dibromochloromethane	0.364	0.351	3.6	108	0.00	
76		N-Butyl Acetate	0.680	0.545	19.9	93	0.00	
77	P	1,2-Dibromoethane	0.397	0.360	9.3	103	0.00	
78		3-Chlorobenzotrifluoride	0.471	0.460	2.3	118	0.00	
79	P	Chlorobenzene	1.015	0.913	10.0	109	0.00	
80		4-Chlorobenzotrifluoride	0.414	0.405	2.2	117	0.00	
81		1,1,1,2-Tetrachloroethane	0.336	0.315	6.3	108	0.00	
82	P	Ethylbenzene	0.543	0.487	10.3	109	0.00	
83	P	(m+p)Xylene	0.650	0.588	9.5	108	0.00	
84	P	o-Xylene	0.645	0.571	11.5	106	0.00	
85	P	Styrene	1.092	1.029	5.8	107	0.00	
86	P	Bromoform	0.247	0.232	6.1	105	0.00	
87		2-Chlorobenzotrifluoride	0.462	0.440	4.8	113	0.00	
88	P	Isopropylbenzene	1.625	1.441	11.3	106	0.00	
89		Cyclohexanone	0.034	0.025	26.5#	92	0.00	-NT
90		trans-1,4-Dichloro-2-Butene	0.157	0.130	17.2	95	0.00	
91	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00	

00430

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9956.D
Acq On : 23 Mar 2015 8:51 am
Operator : B WOJTASIEWICZ
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 09:09:34 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
92	P	1,1,2,2-Tetrachloroethane	1.152	0.970	15.8	96	0.00	
93		Bromobenzene	0.824	0.768	6.8	105	0.00	
94		4-Ethyltoulene	0.000	0.000	0.0	0#	0.00	
95		1,2,3-Trichloropropane	0.351	0.291	17.1	96	0.00	
96		n-Propylbenzene	3.849	3.591	6.7	107	0.00	
97		2-Chlorotoluene	2.372	2.182	8.0	106	0.00	
98		3-Chlorotoluene	2.399	2.321	3.3	110	0.00	
99		4-Chlorotoluene	2.756	2.570	6.7	107	0.00	
100		1,3,5-Trimethylbenzene	2.667	2.504	6.1	106	0.00	
101		tert-Butylbenzene	2.261	2.022	10.6	103	0.00	
102		1,2,4-Trimethylbenzene	2.732	2.544	6.9	104	0.00	
103		3,4-Dichlorobenzotrifluorid	0.673	0.665	1.2	111	0.00	
104		sec-Butylbenzene	3.329	3.044	8.6	105	0.00	
105		p-Isopropyltoluene	2.742	2.473	9.8	104	0.00	
106	P	1,3-Dclbenz	1.560	1.434	8.1	105	0.00	
107	P	1,4-Dclbenz	1.647	1.468	10.9	105	0.00	
108		2,4-Dichlorobenzotrifluorid	0.623	0.599	3.9	110	0.00	
109		2,5-Dichlorobenzotrifluorid	0.706	0.667	5.5	108	0.00	
110		Benzyl Chloride	0.000	0.000	0.0	0#	0.00	
111		n-Butylbenzene	2.582	2.380	7.8	106	0.00	
112	P	1,2-Dclbenz	1.565	1.388	11.3	102	0.00	
113	P	1,2-Dibromo-3-chloropropane	0.203	0.146	28.1#	82	0.00	X 1828, 1857
114		Trielution Dichlorotoluene	1.310	1.200	8.4	103	0.00	
115		1,3,5-Trichlorobenzene	1.007	0.893	11.3	101	0.00	
116		Coelution Dichlorotoluene	1.390	1.219	12.3	99	0.00	
117	P	1,2,4-Tcbenzene	0.877	0.665	24.2#	88	0.00	-NT
118		Hexachlorobt	0.313	0.262	16.3	103	0.00	
119		Naphthalen	2.413	1.649	31.7#	78	0.00	NT
120		1,2,3-Tclbenzene	0.729	0.490	32.8#	80	0.00	
121		2,4,5-Trichlorotoluene	0.344	0.249	27.6#	81	0.00	
122		2,3,6-Trichlorotoluene	0.309	0.221	28.5#	81	0.00	

(#) = Out of Range SPCC's out = 0 CCC's out = 0

00431

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9956.D
Acq On : 23 Mar 2015 8:51 am
Operator : B WOJTASIEWICZ
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 09:09:34 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

BW 03/25/15

RQ1502855-02

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	186654	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.886	114	308976	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.617	117	278732	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	132645	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.331	113	95852	50.91	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.82%			
48) surr1,1,2-dichloroetha...	4.898	65	118616	50.23	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.46%			
65) SURR3,Toluene-d8	8.690	98	359832	50.71	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.42%			
70) SURR2,BFB	11.994	95	141545	50.68	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.36%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.935	85	106162	51.42	ug/L	100
4) Chloromethane	1.033	50	98696	45.42	ug/L	95
5) Vinyl Chloride	1.100	62	109651	48.50	ug/L	98
6) Bromomethane	1.283	94	68427	53.82	ug/L	100
7) Chloroethane	1.350	64	67348	45.47	ug/L	97
8) Freon 21	1.478	67	181134	45.79	ug/L	100
9) Trichlorofluoromethane	1.515	101	145198	48.85	ug/L	99
10) Diethyl Ether	1.710	59	81041	45.22	ug/L	98
11) Freon 123a	1.710	67	109592	45.23	ug/L	99
12) Freon 123	1.758	83	133635	45.77	ug/L	99
13) Acrolein	1.789	56	97030	205.52	ug/L	97
14) 1,1-Diclethene	1.856	96	86573	45.06	ug/L	97
15) Freon 113	1.868	101	83274	48.70	ug/L	99
16) Acetone	1.905	43	30292	32.40	ug/L	95
17) 2-Propanol	2.033	45	140171	655.22	ug/L	100
18) Iodomethane	1.966	142	92664	45.96	ug/L	99
19) Carbon Disulfide	2.015	76	261814	49.00	ug/L	98
20) Acetonitrile	2.106	40	37533	189.40	ug/L	95
21) Allyl Chloride	2.136	76	54089	52.88	ug/L #	90
22) Methyl Acetate	2.161	43	76356	39.29	ug/L	98
23) Methylene Chloride	2.234	84	96939	44.45	ug/L	98
24) TBA	2.374	59	231182	673.89	ug/L	99
25) Acrylonitrile	2.447	53	200840	198.10	ug/L	99
26) Methyl-t-Butyl Ether	2.496	73	286869	44.57	ug/L	99
27) trans-1,2-Dichloroethene	2.478	96	93281	47.01	ug/L	97
28) 1,1-Diclethane	2.886	63	160167	47.60	ug/L	99
29) Vinyl Acetate	2.978	86	24446	49.71	ug/L #	94
30) DIPE	3.020	45	265766	45.93	ug/L	98
31) 2-Chloro-1,3-Butadiene	2.996	53	155792	47.81	ug/L	100
32) ETBE	3.465	59	286207	45.91	ug/L	98
33) 2,2-Dichloropropane	3.581	77	144434	51.86	ug/L	99
34) cis-1,2-Dichloroethene	3.593	96	104768	47.41	ug/L	99
35) 2-Butanone	3.648	43	45432	34.34	ug/L	95
36) Propionitrile	3.703	54	78412	188.89	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9956.D
Acq On : 23 Mar 2015 8:51 am
Operator : B WOJTASIEWICZ
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 09:09:34 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	3.917	130	64575	48.62	ug/L	97
38) Methacrylonitrile	3.929	67	45720	39.95	ug/L	96
39) Tetrahydrofuran	4.014	42	28124	35.13	ug/L	98
40) Chloroform	4.081	83	170438	47.60	ug/L	99
41) 1,1,1-Trichloroethane	4.337	97	141227	46.86	ug/L	97
42) TAME	5.355	73	275046	45.39	ug/L	98
44) Cyclohexane	4.416	41	79079	46.38	ug/L	98
46) Carbontetrachloride	4.618	121	33251	48.96	ug/L	93
47) 1,1-Dichloropropene	4.630	75	121739	48.89	ug/L	97
49) Benzene	5.002	78	372462	46.32	ug/L	99
50) 1,2-Dichloroethane	5.051	62	140986	45.62	ug/L	98
51) Iso-Butyl Alcohol	5.111	43	89315	682.76	ug/L	98
52) n-Heptane	5.709	43	85300	53.86	ug/L	95
53) 1-Butanol	6.562	56	152092	1753.89	ug/L	99
54) Trichloroethene	6.367	130	94196	46.73	ug/L	98
55) Methylcyclohexane	6.745	55	119093	48.95	ug/L	95
56) 1,2-Diclpropane	6.825	63	93879	46.82	ug/L	97
57) Dibromomethane	7.062	93	65995	47.10	ug/L	99
58) 1,4-Dioxane	7.221	88	30291	770.22	ug/L	97
59) Methyl Methacrylate	7.312	69	77085	42.02	ug/L	94
60) Bromodichloromethane	7.477	83	130549	48.43	ug/L	99
61) 2-Nitropropane	7.916	41	53400	77.72	ug/L	96
62) 2-Chloroethylvinyl Ether	8.141	63	69669	44.32	ug/L	96
63) cis-1,3-Dichloropropene	8.294	75	159042	49.82	ug/L	100
64) 4-Methyl-2-pentanone	8.623	43	93639	37.35	ug/L	96
66) Toluene	8.788	91	402542	46.85	ug/L	100
67) trans-1,3-Dichloropropene	9.184	75	149532	49.86	ug/L	99
68) Ethyl Methacrylate	9.416	69	142617	44.76	ug/L	96
69) 1,1,2-Trichloroethane	9.409	97	93750	45.67	ug/L	99
72) Tetrachloroethene	9.556	164	69932	45.30	ug/L	98
73) 2-Hexanone	9.830	43	66851	35.29	ug/L	99
74) 1,3-Dichloropropane	9.617	76	159307	44.72	ug/L	99
75) Dibromochloromethane	9.903	129	97799	48.19	ug/L	97
76) N-Butyl Acetate	10.062	43	151984	40.10	ug/L	98
77) 1,2-Dibromoethane	9.995	107	100223	45.26	ug/L	100
78) 3-Chlorobenzotrifluoride	10.732	180	128094	48.77	ug/L	100
79) Chlorobenzene	10.647	112	254520	44.97	ug/L	99
80) 4-Chlorobenzotrifluoride	10.805	180	112954	48.94	ug/L	99
81) 1,1,1,2-Tetrachloroethane	10.775	131	87717	46.85	ug/L	99
82) Ethylbenzene	10.824	106	135807	44.88	ug/L	93
83) (m+p)Xylene	10.976	106	327635	90.36	ug/L	99
84) o-Xylene	11.421	106	159103	44.26	ug/L	96
85) Styrene	11.440	104	286795	47.13	ug/L	100
86) Bromoform	11.604	173	64802	46.97	ug/L	98
87) 2-Chlorobenzotrifluoride	11.750	180	122732	47.63	ug/L	97
88) Isopropylbenzene	11.860	105	401711	44.35	ug/L	99
89) Cyclohexanone	11.909	55	138366	738.61	ug/L	100
90) trans-1,4-Dichloro-2-B...	12.263	53	36206	41.42	ug/L	97
92) 1,1,2,2-Tetrachloroethane	12.202	83	128689	42.11	ug/L	97
93) Bromobenzene	12.128	156	101830	46.60	ug/L	97
95) 1,2,3-Trichloropropane	12.220	110	38612	41.49	ug/L	92

00433

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9956.D
Acq On : 23 Mar 2015 8:51 am
Operator : B WOJTASIEWICZ
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 09:09:34 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96)	n-Propylbenzene	12.311	91	476374	46.66	ug/L	99
97)	2-Chlorotoluene	12.366	91	289399	45.99	ug/L	98
98)	3-Chlorotoluene	12.439	91	307887	48.37	ug/L	99
99)	4-Chlorotoluene	12.488	91	340928	46.62	ug/L	100
100)	1,3,5-Trimethylbenzene	12.512	105	332154	46.95	ug/L	98
101)	tert-Butylbenzene	12.854	119	268258	44.73	ug/L	99
102)	1,2,4-Trimethylbenzene	12.903	105	337412	46.56	ug/L	99
103)	3,4-Dichlorobenzotrifl...	13.006	214	88171	49.41	ug/L	98
104)	sec-Butylbenzene	13.086	105	403775	45.72	ug/L	99
105)	p-Isopropyltoluene	13.250	119	328048	45.10	ug/L	98
106)	1,3-Dclbenz	13.159	146	190209	45.95	ug/L	98
107)	1,4-Dclbenz	13.256	146	194744	44.56	ug/L	99
108)	2,4-Dichlorobenzotrifl...	13.366	214	79505	48.12	ug/L	96
109)	2,5-Dichlorobenzotrifl...	13.421	214	88458	47.22	ug/L	99
111)	n-Butylbenzene	13.677	91	315748	46.10	ug/L	98
112)	1,2-Dclbenz	13.634	146	184108	44.35	ug/L	98
113)	1,2-Dibromo-3-chloropr...	14.439	157	19432	36.05	ug/L	100
114)	Trielution Dichlorotol...	14.604	125	477520	137.37	ug/L	99
115)	1,3,5-Trichlorobenzene	14.664	180	118425	44.32	ug/L	98
116)	Coelution Dichlorotoluene	15.012	125	323424	87.73	ug/L	99
117)	1,2,4-Tcbenzene	15.280	180	88148	37.89	ug/L	96
118)	Hexachlorobt	15.488	225	34697	41.72	ug/L	98
119)	Naphthalen	15.512	128	218689	34.17	ug/L	99
120)	1,2,3-Tclbenzene	15.762	180	64935	33.56	ug/L	98
121)	2,4,5-Trichlorotoluene	16.530	159	32989	36.12	ug/L	98
122)	2,3,6-Trichlorotoluene	16.634	159	29333	35.84	ug/L	99

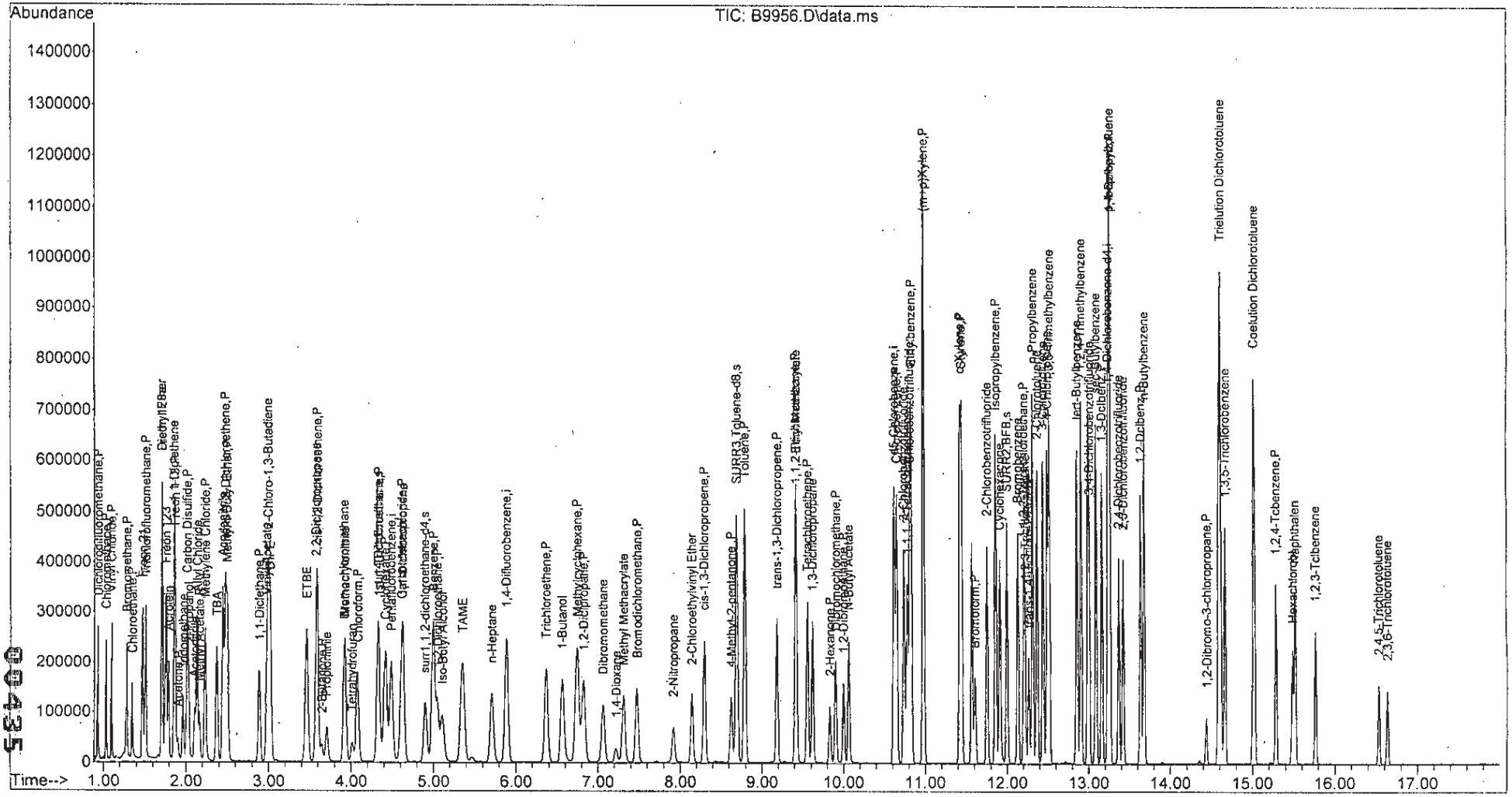
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00434

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9956.D
Acq On : 23 Mar 2015 8:51 am
Operator : B WOJTASIEWICZ
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 09:09:34 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration



Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1501980
Date Analyzed: 3/25/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\032515\A7186.D\

Calibration Date: 3/16/15
Calibration ID: RC1500024
Analysis Lot: 437635
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	46.4	0.7020	0.6514	-7.2	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	53.9	0.8103	0.8736	7.8	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	46.1	0.3826	0.3527	-7.8	NA	± 20 %	Average RF
Tetrachloroethene (PCE)	50.0	48.6	0.2774	0.2694	-2.9	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	46.7	0.3294	0.3074	-6.7	NA	± 20 %	Average RF
Vinyl Chloride	50.0	52.9	0.5537	0.5860	5.8	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	46.2	0.4845	0.4478	-7.6	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	45.7	0.4350	0.3979	-8.5	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	50.6	0.5034	0.5093	1.2	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	50.1	0.2988	0.2992	0.1	NA	± 20 %	Average RF
Toluene-d8	50.0	52.0	1.148	1.194	4.0	NA	± 20 %	Average RF

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7186.D
Acq On : 25 Mar 2015 10:21 am
Operator : F. NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 25 11:10:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

FW 3/25/15

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	i	Pentafluorobenzene	1.0000	1.0000	0.0	97	0.00	
2	P	Dichlorodifluoromethane	0.4747	0.5605	-18.1	104	0.00	
3	P	Chloromethane	0.5945	0.7449	-25.3#	117	0.00	(1)
4	P	Vinyl Chloride	0.5537	0.5860	-5.8	93	0.00	
5	P	Bromomethane	0.1911	0.1795	6.6 ~~6.1~~	81	0.00	
6	P	Chloroethane	0.3167	0.3064	3.3	90	0.00	
7		Freon 21	0.8634	0.7838	9.2	85	0.00	
8	P	Trichlorofluoromethane	0.6846	0.6480	5.3	86	0.00	
9		Diethyl Ether	0.3586	0.3723	-3.8	98	0.00	
10		Freon 123a	0.5390	0.5023	6.8	92	0.00	
11		Freon 123	0.5960	0.5260	11.7	85	0.00	
12		Acrolein	0.0522	0.0549	-5.2	99	0.00	
13		1,1-Diclethene	0.3826	0.3527	7.8	84	0.00	
14	P	Freon 113	0.4206	0.3977	5.4	87	0.00	
15	P	Acetone	0.1179	0.1140	3.3	90	0.00	
16		2-Propanol	0.0216	0.0209	3.2	90	0.00	
17		Iodomethane	0.2570	0.3756	-26.2 ~~-46.1#~~	118	0.00	(2)
18	P	Carbon Disulfide	1.4025	1.4733	-5.0	98	0.00	
19		Acetonitrile	0.0164	0.0196	-19.5	115	0.00	
20		Allyl Chloride	0.2266	0.2389	-5.4	90	0.00	
21	P	Methyl Acetate	0.2637	0.2737	-3.8	103	0.00	
22	P	Methylene Chloride	0.4250	0.4007	5.7	85	0.00	
23		TBA	0.0326	0.0286	12.3	80	0.00	
24		Acrylonitrile	0.1211	0.1276	-5.4	96	0.00	
25	P	Methyl-t-Butyl Ether	1.1269	1.0128	10.1	82	0.00	
26	P	trans-1,2-Dichloroethene	0.4350	0.3979	8.5	83	0.00	
27	P	1,1-Diclethane	0.8103	0.8736	-7.8	98	0.00	
28		Vinyl Acetate	0.0769	0.0710	7.7	88	0.00	
29		DIPE	1.7580	2.1939	-24.8#	114	0.00	NT
30		2-Chloro-1,3-Butadiene	0.9402	1.2067	-28.3#	118	0.00	(3)
31		ETBE	1.4868	1.5946	-7.3	98	0.00	
32		2,2-Dichloropropane	0.6342	0.6721	-6.0	95	0.00	
33	P	cis-1,2-Dichloroethene	0.4845	0.4478	7.6	87	0.00	
34	P	2-Butanone	0.1617	0.1751	-8.3	104	0.00	
35		Propionitrile	0.0439	0.0444	-1.1	94	-0.01	
36		Bromochloromethane	0.2716	0.2596	4.4	86	0.00	
37		Methacrylonitrile	0.1292	0.1104	14.6	82	0.00	
38		Tetrahydrofuran	0.1063	0.1073	-0.9	99	0.00	
39	P	Chloroform	0.7651	0.7362	3.8	88	0.00	
40	P	1,1,1-Trichloroethane	0.7020	0.6514	7.2	86	0.00	
41	i	1,4-Difluorobenzene	1.0000	1.0000	0.0	94	0.00	
42	P	Cyclohexane	0.3824	0.4414	-15.4	108	0.00	
43	s	surr4,Dibrflmethane	0.2988	0.2992	-0.1	93	0.00	
44	P	Carbontetrachloride	0.1361	0.1284	5.7	86	-0.01	
45		1,1-Dichloropropene	0.4032	0.3993	1.0	89	0.00	
46	s	surr1,1,2-dichloroethane-d4	0.3111	0.3521	-13.2	105	0.00	

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7186.D
Acq On : 25 Mar 2015 10:21 am
Operator : F. NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 25 11:10:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	P	Benzene	1.2175	1.1845	2.7	86	0.00
48	P	1,2-Dichloroethane	0.4066	0.4204	-3.4	93	0.00
49		Iso-Butyl Alcohol	0.0110	0.0106	3.6	88	-0.01
50		TAME	0.7828	0.7499	4.2	85	0.00
51		n-Heptane	0.4204	0.5571	-32.5#	121	0.00
52		1-Butanol	0.0063	0.0058	7.9	85	-0.01
53	P	Trichloroethene	0.3294	0.3074	6.7	82	0.00
54	P	Methylcyclohexane	0.4551	0.5084	-11.7	106	0.00
55	P	1,2-Diclpropane	0.3248	0.3646	-12.3	97	0.00
56		Dibromomethane	0.1635	0.1467	10.3	80	0.00
57		1,4-Dioxane	0.0021	0.0018	14.3	83	0.00
58		Methyl Methacrylate	0.1581	0.1372	13.2	79	0.00
59	P	Bromodichloromethane	0.4067	0.3864	5.0	86	0.00
60		2-Nitropropane	0.0679	0.0666	1.9	88	0.00
61		2-Chloroethylvinyl Ether	0.1548	0.1711	-10.5	97	0.00
62	P	cis-1,3-Dichloropropene	0.4855	0.4828	0.6	88	0.00
63	P	4-Methyl-2-pentanone	0.2486	0.2760	-11.0	103	0.00
64	s	SURR3,Toluene-d8	1.1477	1.1938	-4.0	94	0.00
65	P	Toluene	1.2942	1.2860	0.6	86	0.00
66	P	trans-1,3-Dichloropropene	0.4214	0.4061	3.6	85	0.00
67		Ethyl Methacrylate	0.3302	0.2924	11.4	80	0.00
68	P	1,1,2-Trichloroethane	0.2410	0.2066	14.3	79	0.00
69	s	SURR2,BFB	0.5034	0.5093	-1.2	91	0.00
70	i	d5-Chlorobenzene	1.0000	1.0000	0.0	91	0.00
71	P	Tetrachloroethene	0.2774	0.2694	2.9	86	0.00
72	P	2-Hexanone	0.1794	0.1987	-10.8	102	0.00
73		1,3-Dichloropropane	0.3932	0.3976	-1.1	87	0.00
74	P	Dibromochloromethane	0.3121	0.2864	8.2	80	0.00
75		N-Butyl Acetate	0.4486	0.4864	-8.4	97	0.00
76	P	1,2-Dibromoethane	0.2376	0.2201	7.4	83	0.00
77		3-Chlorobenzotrifluoride	0.5347	0.5164	3.4	86	0.00
78	P	Chlorobenzene	0.9159	0.8996	1.8	83	0.00
79		4-Chlorobenzotrifluoride	0.4863	0.4694	3.5	86	0.00
80		1,1,1,2-Tetrachloroethane	0.3435	0.3305	3.8	83	0.00
81	P	Ethylbenzene	0.4876	0.4850	0.5	85	0.00
82	P	(m+p)Xylene	0.5892	0.5998	-1.8	85	0.00
83	P	o-Xylene	0.5898	0.5871	0.5	86	0.00
84	P	Styrene	1.0146	1.0200	-0.5	83	0.00
85	P	Bromoform	0.1927	0.1699	11.8	75	0.00
86		2-Chlorobenzotrifluoride	0.5249	0.5091	3.0	86	0.00
87	P	Isopropylbenzene	1.4443	1.5212	-5.3	85	0.00
88		Cyclohexanone	0.0192	0.0180	6.2	84	0.00
89		trans-1,4-Dichloro-2-Butene	0.0984	0.0877	10.9	79	0.00
90	i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	91	0.00
91	P	1,1,2,2-Tetrachloroethane	0.4865	0.4378	10.0	78	0.00

(4)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7186.D
Acq On : 25 Mar 2015 10:21 am
Operator : F. NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 25 11:10:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92		Bromobenzene	0.6826	0.6564	3.8	82	0.00
93		1,2,3-Trichloropropane	0.1352	0.1223	9.5	77	0.00
94		n-Propylbenzene	2.7772	3.0400	-9.5	86	0.00
95		2-Chlorotoluene	1.7594	1.8466	-5.0	87	0.00
96		3-Chlorotoluene	1.8790	1.9073	-1.5	87	0.00
97		4-Chlorotoluene	2.0899	2.2361	-7.0	87	0.00
98		1,3,5-Trimethylbenzene	2.0852	2.2444	-7.6	86	0.00
99		tert-Butylbenzene	1.8026	1.8665	-3.5	85	0.00
100		1,2,4-Trimethylbenzene	2.1562	2.2916	-6.3	86	0.00
101		3,4-Dichlorobenzotrifluorid	0.6734	0.6803	-1.0	89	0.00
102		sec-Butylbenzene	2.4670	2.6421	-7.1	85	0.00
103		p-Isopropyltoluene	2.1705	2.3219	-7.0	85	0.00
104	P	1,3-Dclbenz	1.3448	1.3510	-0.5	84	0.00
105	P	1,4-Dclbenz	1.3889	1.3741	1.1	85	0.00
106		2,4-Dichlorobenzotrifluorid	0.6226	0.6279	-0.9	90	0.00
107		2,5-Dichlorobenzotrifluorid	0.6897	0.7032	-2.0	89	0.00
108		n-Butylbenzene	1.9228	2.1249	-10.5	89	0.00
109	P	1,2-Dclbenz	1.2525	1.2499	0.2	84	0.00
110	P	1,2-Dibromo-3-chloropropane	0.0969	0.0776	19.9	68	0.00
111		Trielution Dichlorotoluene	1.1079	1.1179	-0.9	84	0.00
112		1,3,5-Trichlorobenzene	0.9358	0.9632	-2.9	89	0.00
113		Coelution Dichlorotoluene	1.1508	1.1425	0.7	81	0.00
114	P	1,2,4-Tcbenzene	0.7876	0.8045	-2.1	86	0.00
115		Hexachlorobt	0.3502	0.3799	-8.5	97	0.00
116		Naphthalen	1.3860	1.2215	11.9	72	0.00
117		1,2,3-Tclbenzene	0.5872	0.5682	3.2	80	0.00
118		2,4,5-Trichlorotoluene	0.3821	0.3425	10.4	74	0.00
119		2,3,6-Trichlorotoluene	0.3260	0.2902	11.0	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

00439

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7186.D
Acq On : 25 Mar 2015 10:21 am
Operator : F. NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 25 11:10:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

FJ 3/25/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.963	168	827510	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.146	114	1193182	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.578	117	1149711	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	687456	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	4.829	113	356945	50.05	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.10%				
46) surr1,1,2-dichloroetha...	5.408	65	420069	56.58	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 113.16%				
64) SURR3,Toluene-d8	8.042	98	1424434	52.01	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.02%				
69) SURR2,BFB	10.675	95	607715	50.59	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.18%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.159	85	463800	59.04	ug/L		96
3) Chloromethane	1.281	50	616402	62.65	ug/L		99
4) Vinyl Chloride	1.348	62	484932	52.91	ug/L		97
5) Bromomethane	1.567	94	148552	46.68	ug/L		93
6) Chloroethane	1.634	64	253587	48.38	ug/L		97
7) Freon 21	1.762	67	648582	45.39	ug/L		98
8) Trichlorofluoromethane	1.811	101	536261	47.33	ug/L		100
9) Diethyl Ether	2.012	59	308095	51.92	ug/L		86
10) Freon 123a	2.012	67	415695	46.60	ug/L		91
11) Freon 123	2.061	83	435236m	44.12	ug/L		
12) Acrolein	2.104	56	227347	263.01	ug/L		92
13) 1,1-Diclethene	2.195	96	291863	46.09	ug/L	#	84
14) Freon 113	2.195	101	329062	47.27	ug/L		95
15) Acetone	2.226	43	94338	48.34	ug/L		100
16) 2-Propanol	2.329	45	345958	967.74	ug/L		96
17) Iodomethane	2.317	142	310772	63.12	ug/L		96
18) Carbon Disulfide	2.378	76	1219194	52.53	ug/L		100
19) Acetonitrile	2.451	40	81001	298.63	ug/L		93
20) Allyl Chloride	2.488	76	197705	52.71	ug/L	#	27
21) Methyl Acetate	2.500	43	226520	51.91	ug/L		90
22) Methylene Chloride	2.591	84	331597	47.15	ug/L	#	65
23) TBA	2.689	59	473508	876.36	ug/L		81
24) Acrylonitrile	2.817	53	527957	263.51	ug/L		100
25) Methyl-t-Butyl Ether	2.860	73	838090	44.94	ug/L		91
26) trans-1,2-Dichloroethene	2.860	96	329262	45.73	ug/L	#	82
27) 1,1-Diclethane	3.305	63	722879	53.90	ug/L		97
28) Vinyl Acetate	3.372	86	58781	46.16	ug/L		98
29) DIPE	3.402	45	1815454	62.40	ug/L	#	76
30) 2-Chloro-1,3-Butadiene	3.414	53	998569	64.18	ug/L		87
31) ETBE	3.872	59	1319521	53.62	ug/L		93
32) 2,2-Dichloropropane	4.055	77	556209	52.99	ug/L		97
33) cis-1,2-Dichloroethene	4.055	96	370594	46.21	ug/L	#	78
34) 2-Butanone	4.085	43	144915	54.16	ug/L		83
35) Propionitrile	4.158	54	183624	252.84	ug/L		100

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7186.D
Acq On : 25 Mar 2015 10:21 am
Operator : F. NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 25 11:10:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	4.408	130	214793	47.78	ug/L	#	70
37) Methacrylonitrile	4.402	67	91333	42.72	ug/L	#	47
38) Tetrahydrofuran	4.487	42	88818	50.50	ug/L		86
39) Chloroform	4.561	83	609203	48.11	ug/L		94
40) 1,1,1-Trichloroethane	4.853	97	539007	46.40	ug/L		93
42) Cyclohexane	4.945	41	526712	57.72	ug/L		96
44) Carbontetrachloride	5.146	121	153177	47.18	ug/L		89
45) 1,1-Dichloropropene	5.158	75	476471	49.52	ug/L		98
47) Benzene	5.499	78	1413365	48.64	ug/L		84
48) 1,2-Dichloroethane	5.536	62	501667	51.70	ug/L		91
49) Iso-Butyl Alcohol	5.481	43	253712	966.63	ug/L		93
50) TAME	5.743	73	894754	47.90	ug/L		85
51) n-Heptane	6.005	43	664734	66.26	ug/L		86
52) 1-Butanol	6.511	56	345821	2308.31	ug/L		85
53) Trichloroethene	6.493	130	366798	46.66	ug/L		99
54) Methylcyclohexane	6.743	55	606632	55.86	ug/L	#	77
55) 1,2-Diclpropane	6.792	63	435092	56.13	ug/L		100
56) Dibromomethane	6.938	93	175055	44.88	ug/L		97
57) 1,4-Dioxane	6.999	88	43123m	858.05	ug/L		
58) Methyl Methacrylate	7.023	69	163700	43.39	ug/L	#	57
59) Bromodichloromethane	7.170	83	461021	47.50	ug/L		97
60) 2-Nitropropane	7.462	41	158922	98.08	ug/L		95
61) 2-Chloroethylvinyl Ether	7.590	63	204187	55.26	ug/L		89
62) cis-1,3-Dichloropropene	7.737	75	576116	49.72	ug/L		98
63) 4-Methyl-2-pentanone	7.950	43	329372	55.52	ug/L		90
65) Toluene	8.121	91	1534425	49.68	ug/L		97
66) trans-1,3-Dichloropropene	8.395	75	484524	48.18	ug/L		100
67) Ethyl Methacrylate	8.541	69	348940	44.28	ug/L	#	66
68) 1,1,2-Trichloroethane	8.590	97	246478	42.87	ug/L		96
71) Tetrachloroethene	8.730	164	309714	48.56	ug/L		95
72) 2-Hexanone	8.889	43	228475	55.39	ug/L		92
73) 1,3-Dichloropropane	8.767	76	457163	50.57	ug/L	#	77
74) Dibromochloromethane	8.999	129	329268	45.88	ug/L		96
75) N-Butyl Acetate	9.054	43	559246	54.21	ug/L		95
76) 1,2-Dibromoethane	9.096	107	253055	46.32	ug/L		95
77) 3-Chlorobenzotrifluoride	9.627	180	593679	48.29	ug/L		94
78) Chlorobenzene	9.602	112	1034322	49.11	ug/L		96
79) 4-Chlorobenzotrifluoride	9.681	180	539646	48.26	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.694	131	379943	48.10	ug/L		96
81) Ethylbenzene	9.730	106	557633	49.73	ug/L		97
82) (m+p)Xylene	9.846	106	1379148	101.80	ug/L	#	86
83) o-Xylene	10.206	106	674981	49.77	ug/L		100
84) Styrene	10.224	104	1172748	50.27	ug/L		99
85) Bromoform	10.376	173	195331	44.09	ug/L		95
86) 2-Chlorobenzotrifluoride	10.456	180	585312	48.50	ug/L		94
87) Isopropylbenzene	10.547	105	1748895	52.66	ug/L		98
88) Cyclohexanone	10.614	55	413681	937.38	ug/L		95
89) trans-1,4-Dichloro-2-B...	10.864	53	100781	44.54	ug/L		90
91) 1,1,2,2-Tetrachloroethane	10.815	83	300997	45.00	ug/L		99
92) Bromobenzene	10.797	156	451274	48.08	ug/L		99
93) 1,2,3-Trichloropropane	10.840	110	84073	45.21	ug/L	#	75

00441

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7186.D
Acq On : 25 Mar 2015 10:21 am
Operator : F. NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 25 11:10:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

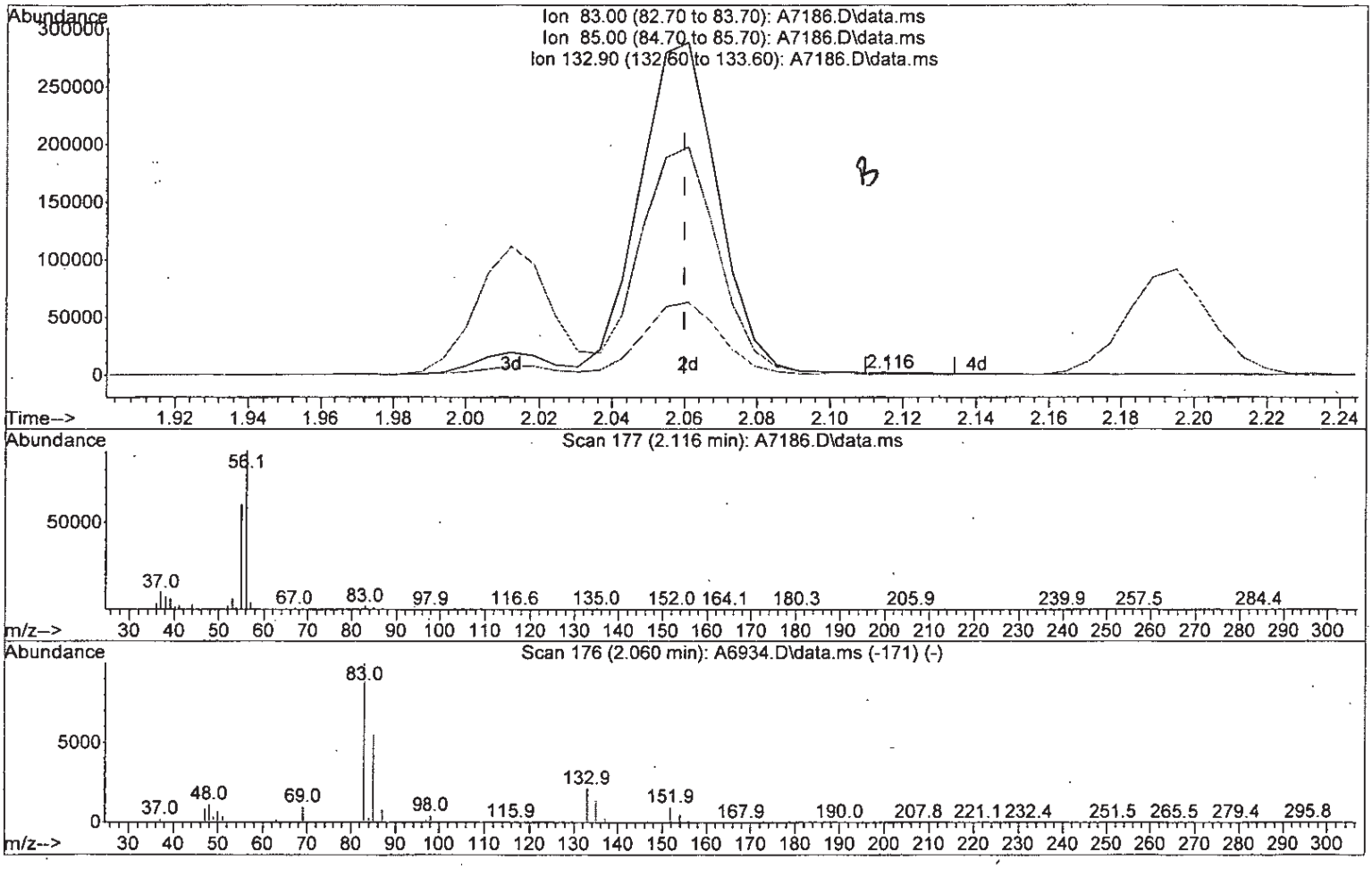
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	10.907	91	2089884	54.73	ug/L	98
95)	2-Chlorotoluene	10.974	91	1269485	52.48	ug/L	99
96)	3-Chlorotoluene	11.029	91	1311164	50.75	ug/L	99
97)	4-Chlorotoluene	11.065	91	1537210	53.50	ug/L	98
98)	1,3,5-Trimethylbenzene	11.065	105	1542931	53.82	ug/L	98
99)	tert-Butylbenzene	11.340	119	1283140	51.77	ug/L	98
100)	1,2,4-Trimethylbenzene	11.376	105	1575356	53.14	ug/L	99
101)	3,4-Dichlorobenzotrifl...	11.443	214	467704	50.51	ug/L	98
102)	sec-Butylbenzene	11.523	105	1816319	53.55	ug/L	99
103)	p-Isopropyltoluene	11.651	119	1596202	53.49	ug/L	98
104)	1,3-Dclbenz	11.608	146	928763	50.23	ug/L	96
105)	1,4-Dclbenz	11.681	146	944667	49.47	ug/L	98
106)	2,4-Dichlorobenzotrifl...	11.736	214	431661	50.42	ug/L	96
107)	2,5-Dichlorobenzotrifl...	11.779	214	483432	50.98	ug/L	95
108)	n-Butylbenzene	11.980	91	1460768	55.25	ug/L	98
109)	1,2-Dclbenz	11.986	146	859255	49.90	ug/L	99
110)	1,2-Dibromo-3-chloropr...	12.614	157	53370	40.04	ug/L	95
111)	Trielution Dichlorotol...	12.736	125	2305469	151.35	ug/L	97
112)	1,3,5-Trichlorobenzene	12.785	180	662170	51.47	ug/L	96
113)	Coelution Dichlorotoluene	13.059	125	1570852	99.28	ug/L	96
114)	1,2,4-Tcbenzene	13.272	180	553070	51.08	ug/L	97
115)	Hexachlorobt	13.406	225	261135	54.23	ug/L	98
116)	Naphthalen	13.461	128	839743	44.07	ug/L	99
117)	1,2,3-Tclbenzene	13.650	180	390588	48.38	ug/L	99
118)	2,4,5-Trichlorotoluene	14.235	159	235464	44.82	ug/L	99
119)	2,3,6-Trichlorotoluene	14.321	159	199529	44.51	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

00442

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7186.D
Acq On : 25 Mar 2015 10:21 am
Operator : F. NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 25 10:36:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



TIC: A7186.D\data.ms

(11) Freon 123

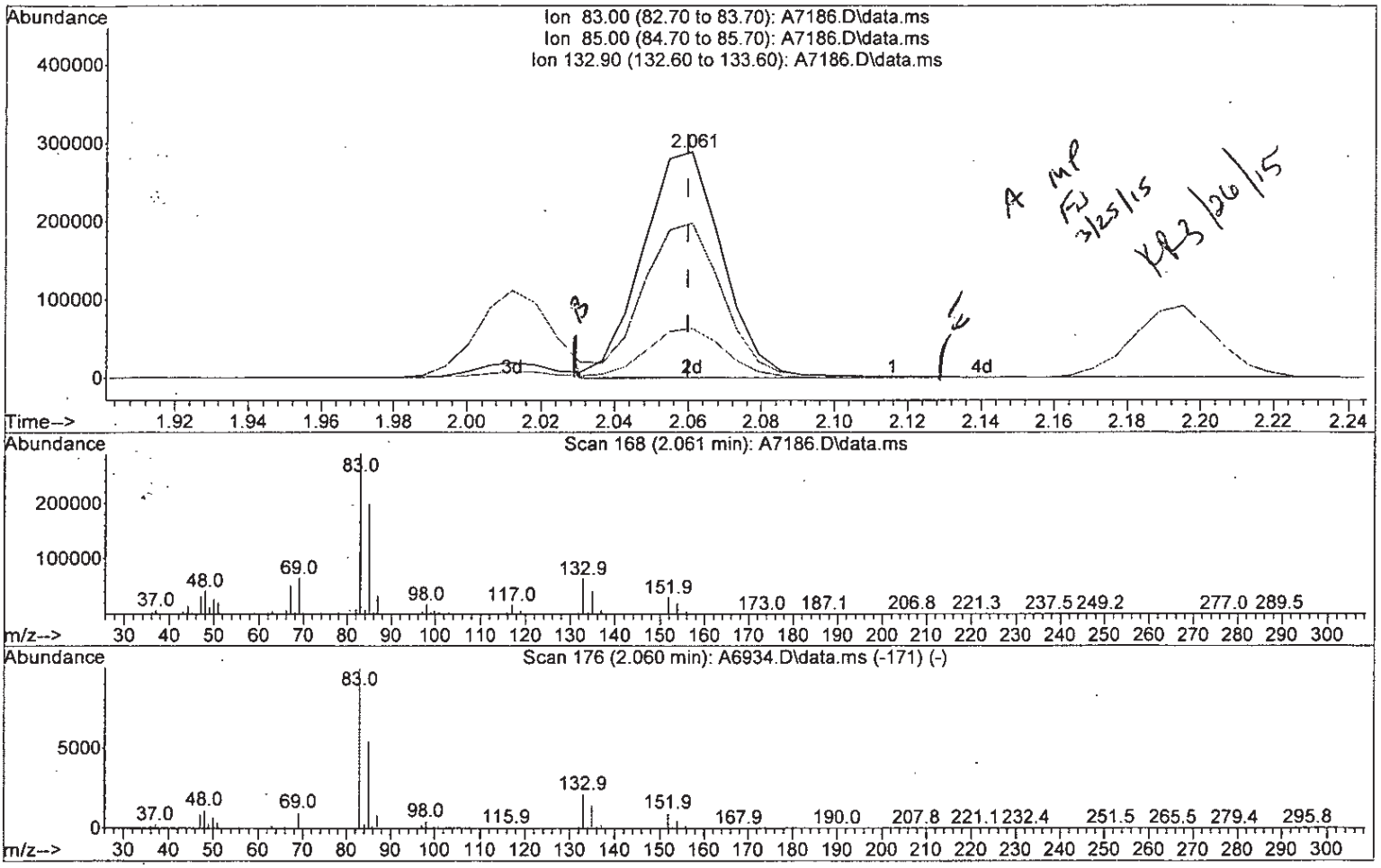
2.116min (+0.056) 0.17 ug/L

response 1717

Ion	Exp%	Act%
83.00	100	100
85.00	47.30	63.22
132.90	19.90	17.45
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7186.D
Acq On : 25 Mar 2015 10:21 am
Operator : F. NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 25 10:36:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



TIC: A7186.D\data.ms

(11) Freon 123

2.061min (+0.001) 44.12 ug/L m

response 435236

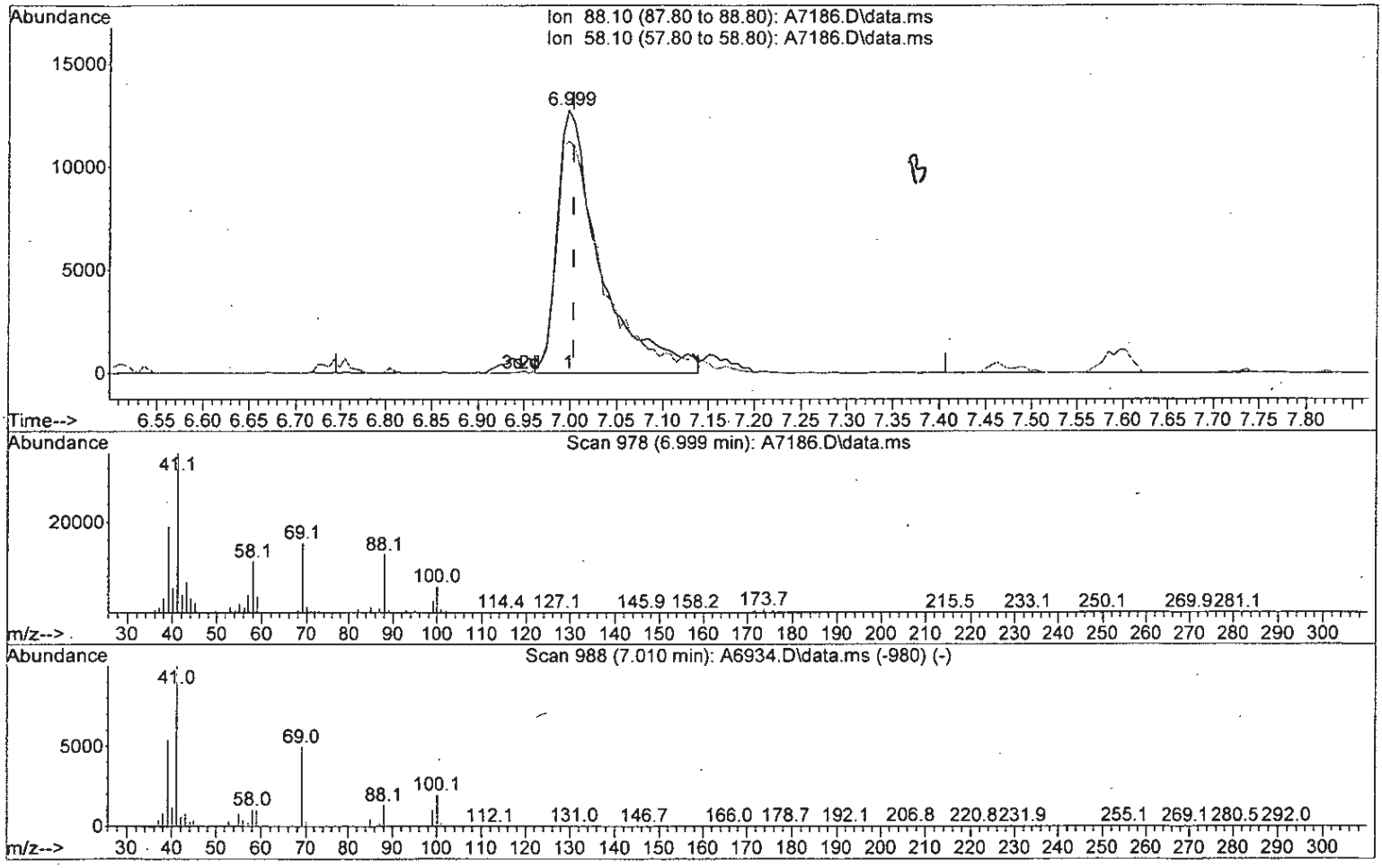
Ion	Exp%	Act%
83.00	100	100
85.00	47.30	68.50#
132.90	19.90	21.79
0.00	0.00	0.00

00444

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7186.D
Acq On : 25 Mar 2015 10:21 am
Operator : F. NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 25 10:36:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



TIC: A7186.D\data.ms

(57) 1,4-Dioxane

6.999min (-0.005) 819.97 ug/L

response 41209

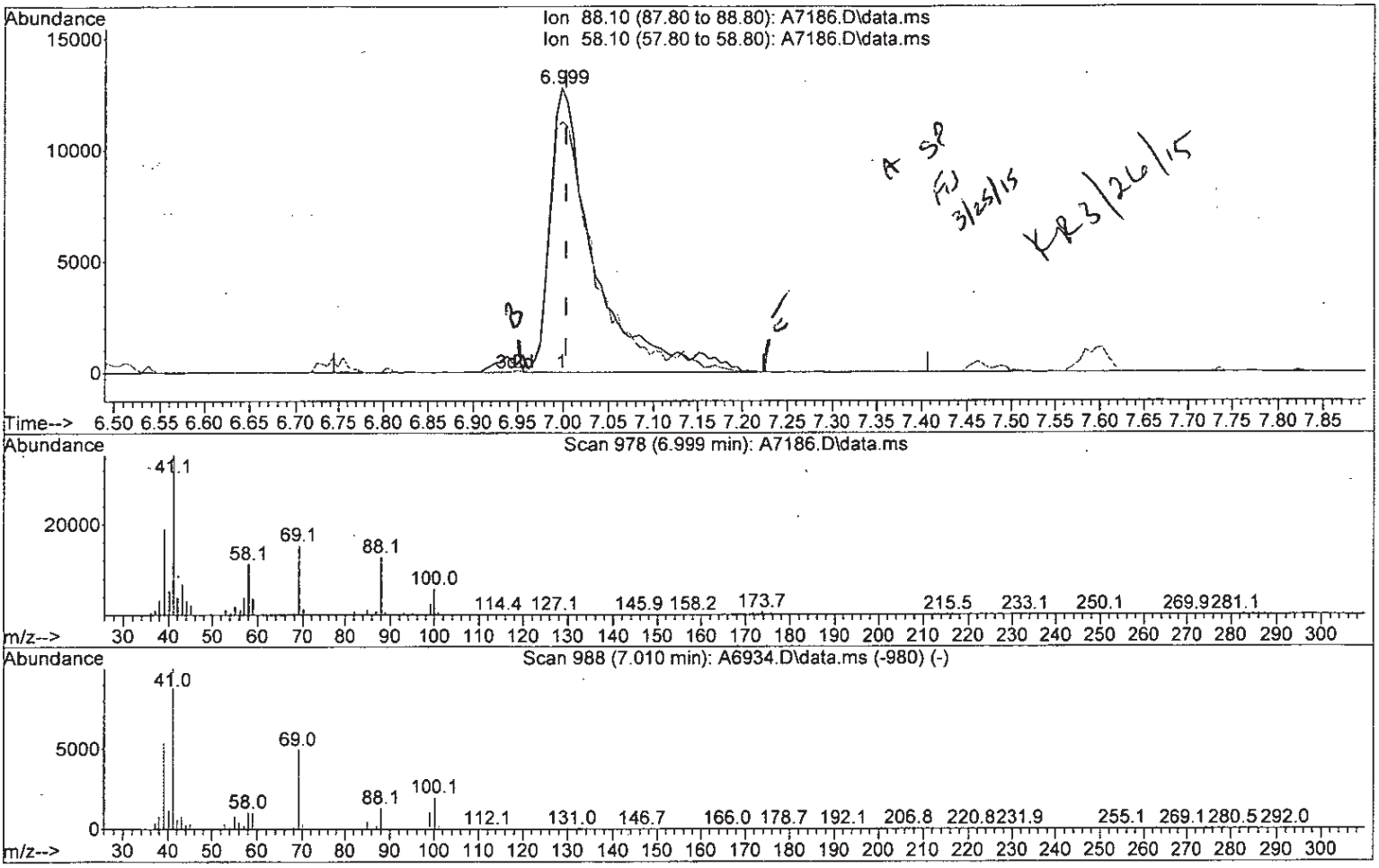
Ion	Exp%	Act%
88.10	100	100
58.10	61.10	88.11#
0.00	0.00	0.00
0.00	0.00	0.00

00445

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7186.D
Acq On : 25 Mar 2015 10:21 am
Operator : F. NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 25 10:36:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



TIC: A7186.D\data.ms

(57) 1,4-Dioxane

6.999min (-0.005) 858.05 ug/L m

response 43123

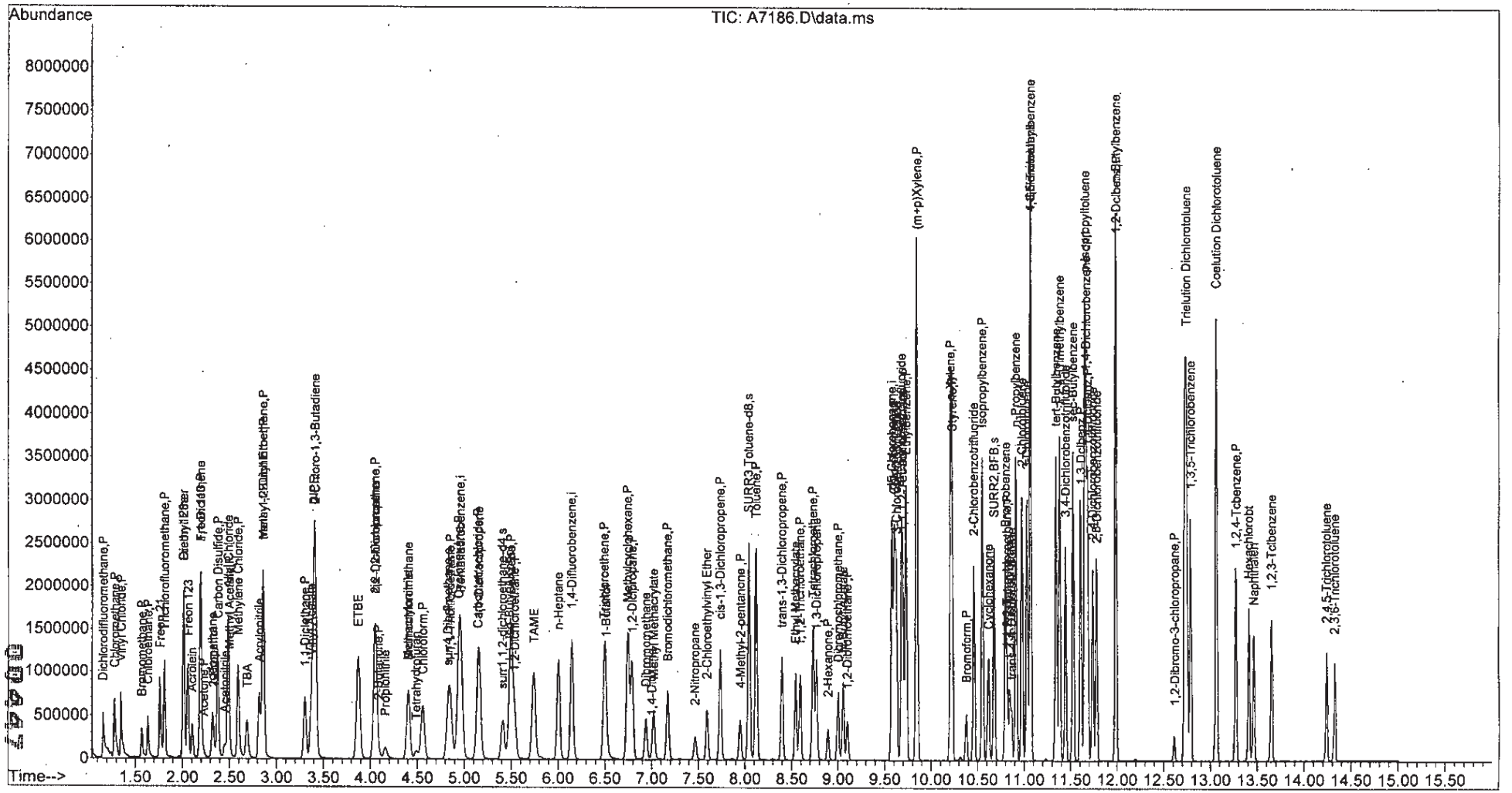
Ion	Exp%	Act%
88.10	100	100
58.10	61.10	88.11#
0.00	0.00	0.00
0.00	0.00	0.00

00446

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7186.D
Acq On : 25 Mar 2015 10:21 am
Operator : F. NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 25 11:10:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



ALS Environmental

VOLATILE ORGANICS
RAW QC DATA

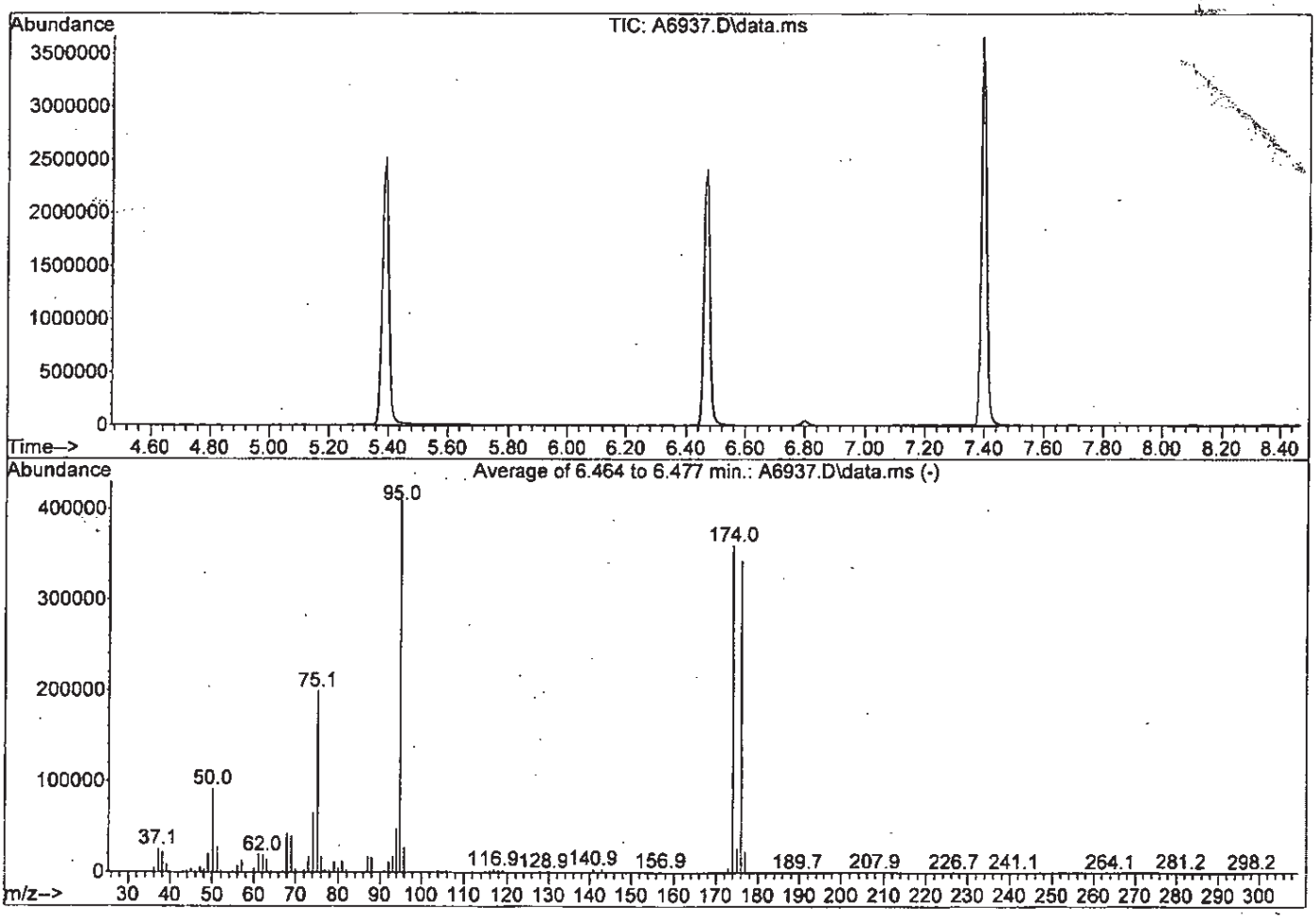
ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Data Path : I:\ACQUDATA\msvoa10\data\031615\
Data File : A6937.D
Acq On : 16 Mar 2015 4:51 pm
Operator : F. NAEGLER
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

FJ 3/17/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T031615.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 390, 391, 392; Background Corrected with Scan 383

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	91421	PASS
75	95	30	60	48.6	198741	PASS
95	95	100	100	100.0	409184	PASS
96	95	5	9	6.6	26998	PASS
173	174	0.00	2	1.1	4090	PASS
174	95	50	120	87.9	359729	PASS
175	174	5	9	7.2	26027	PASS
176	174	95	101	95.2	342571	PASS
177	176	5	9	6.5	22435	PASS

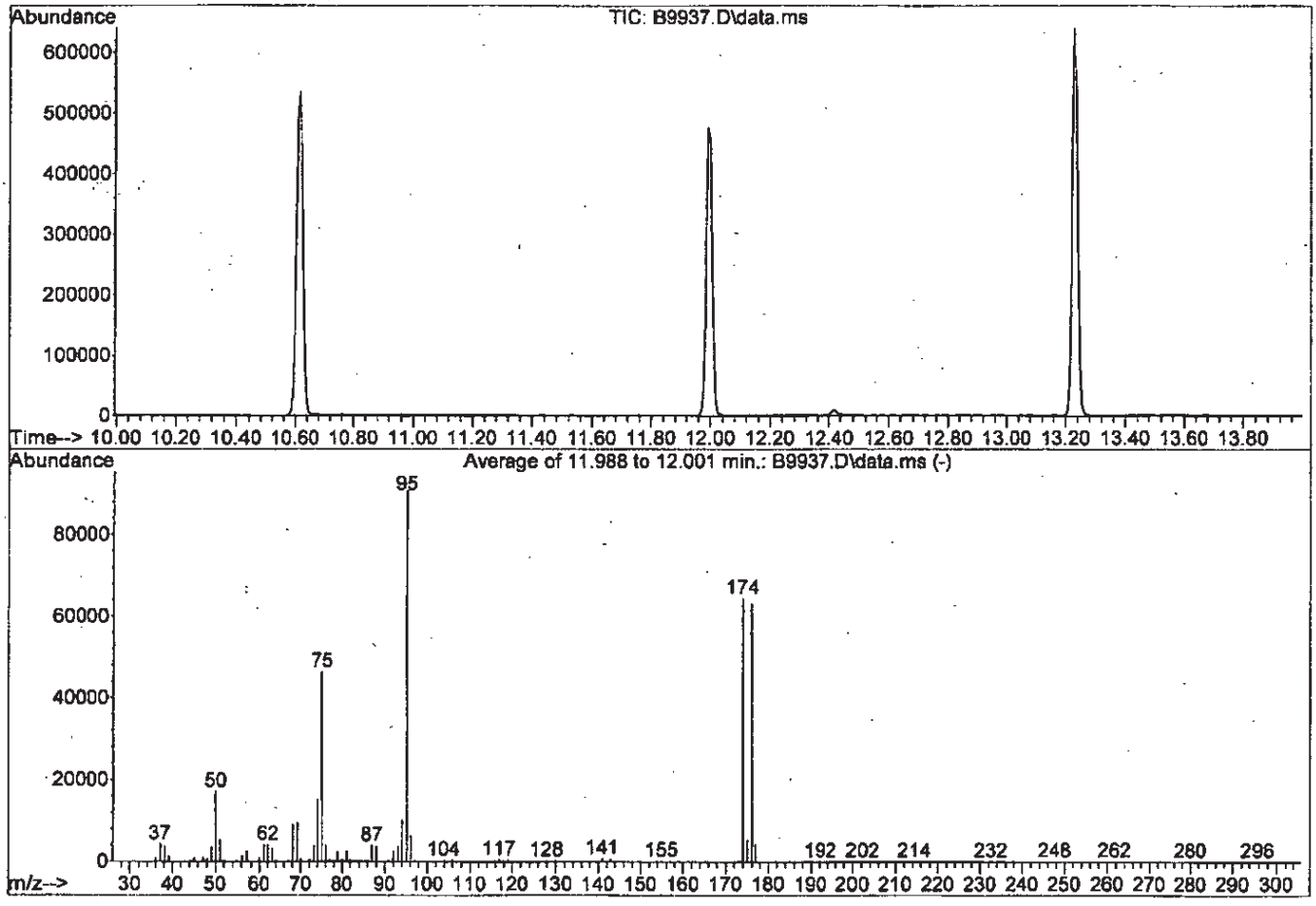
BFB

Data Path : I:\ACQUDATA\MSVOA14\Data\032015\
Data File : B9937.D
Acq On : 20 Mar 2015 3:23 pm
Operator : B WOJTASIEWICZ
Sample : TUNE Inst : MSVOA14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: CPD4.P

BW 03/24/15

Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Mon Mar 23 08:17:51 2015



AutoFind: Scans 1821, 1822, 1823; Background Corrected with Scan 1815

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	17012	PASS
75	95	30	60	51.1	46381	PASS
95	95	100	100	100.0	90792	PASS
96	95	5	9	6.8	6155	PASS
173	174	0.00	2	0.3	174	PASS
174	95	50	120	71.0	64424	PASS
175	174	5	9	8.0	5168	PASS
176	174	95	101	97.8	62998	PASS
177	176	5	9	6.6	4173	PASS

BrB

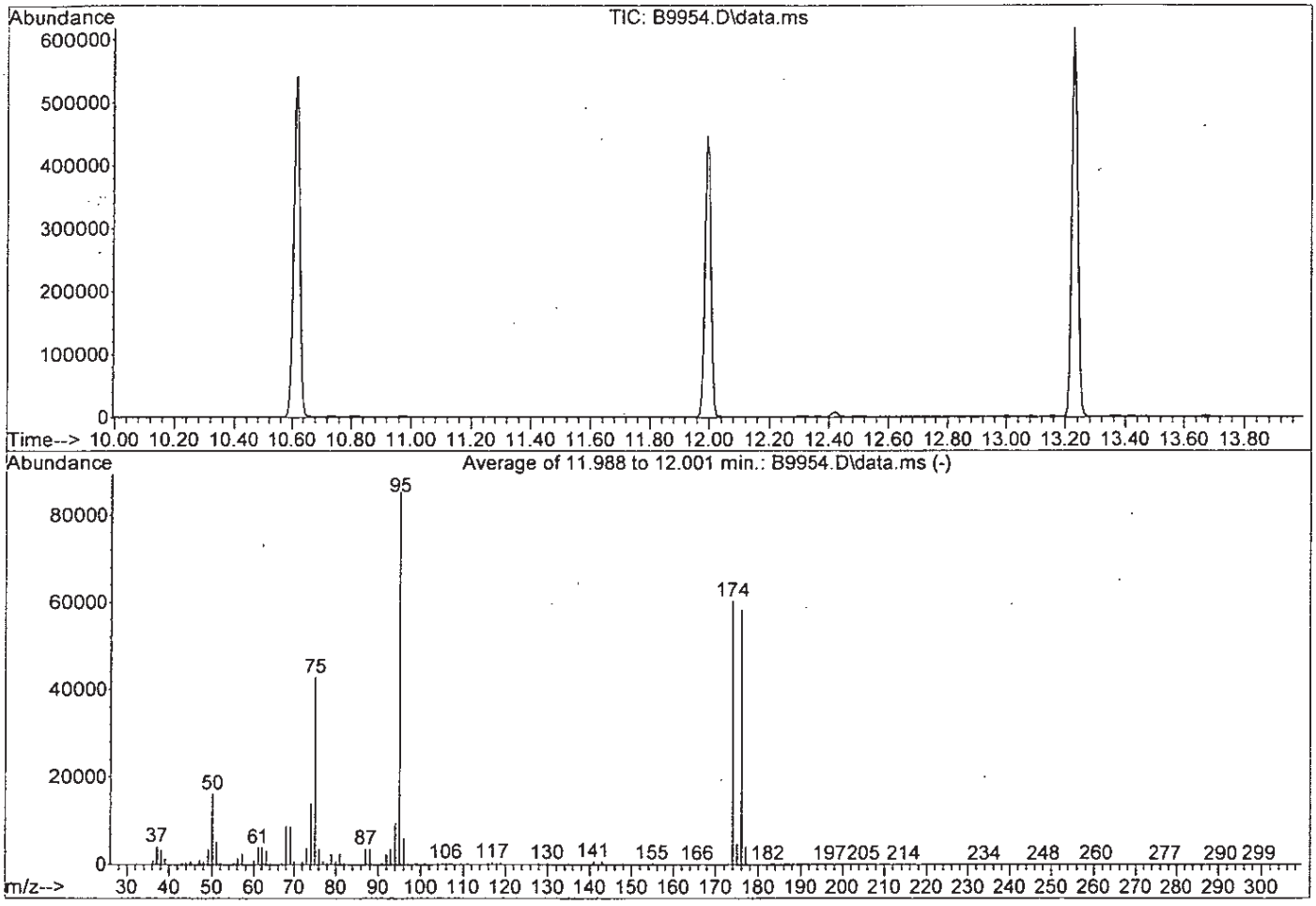
Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9954.D
Acq On : 23 Mar 2015 7:21 am
Operator : B WOJTASIEWICZ
Sample : TUNE Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

RQ1502855-01

RLW 03/25/15

Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Mon Mar 23 08:17:51 2015



AutoFind: Scans 1821, 1822, 1823; Background Corrected with Scan 1815

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	16135	PASS
75	95	30	60	50.2	42741	PASS
95	95	100	100	100.0	85163	PASS
96	95	5	9	6.8	5821	PASS
173	174	0.00	2	0.3	159	PASS
174	95	50	120	70.7	60219	PASS
175	174	5	9	7.7	4616	PASS
176	174	95	101	96.5	58131	PASS
177	176	5	9	6.9	3983	PASS

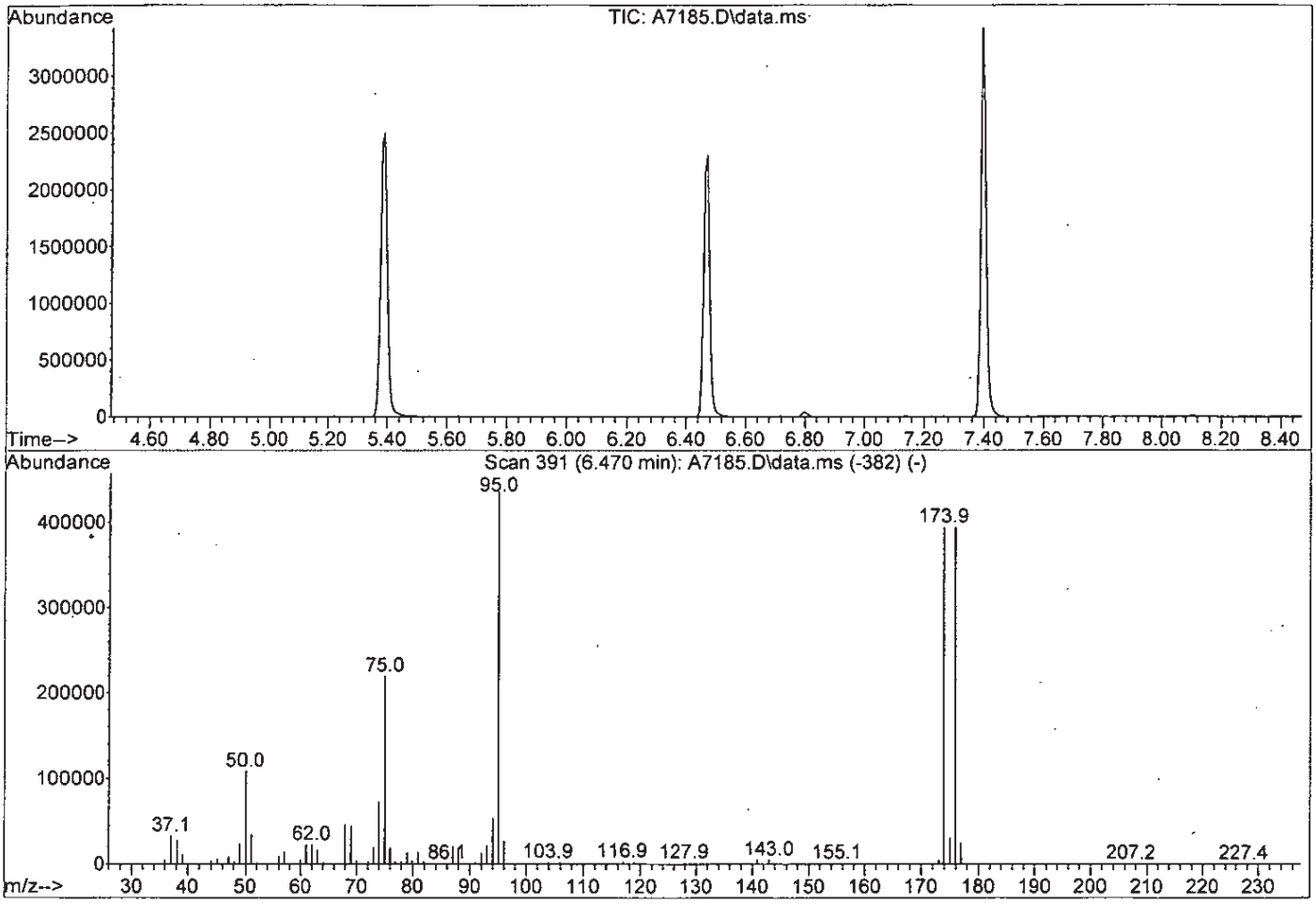
00451

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7185.D
Acq On : 25 Mar 2015 9:48 am
Operator : F. NAEGLER
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

FJ 3/25/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T031615.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



Spectrum Information: Scan 391

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.8	108112	PASS
75	95	30	60	50.4	219456	PASS
95	95	100	100	100.0	435840	PASS
96	95	5	9	6.1	26640	PASS
173	174	0.00	2	1.1	4321	PASS
174	95	50	120	90.5	394368	PASS
175	174	5	9	7.7	30328	PASS
176	174	95	101	99.9	394048	PASS
177	176	5	9	6.2	24584	PASS

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	3/23/15 10:31
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1502855-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9959.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	3/23/15 10:31	
Dibromofluoromethane	103	89-119	3/23/15 10:31	
Toluene-d8	103	87-121	3/23/15 10:31	

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9959.D
Acq On : 23 Mar 2015 10:31 am
Operator : B WOJTASIEWICZ
Sample : MBLANK Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 25 08:43:08 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.496	168	169349	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.892	114	279680	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.617	117	246749	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	118540	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.337	113	87487	51.33	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.66%			
48) surr1,1,2-dichloroetha...	4.904	65	110059	51.48	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.96%			
65) SURR3,Toluene-d8	8.690	98	329686	51.33	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.66%			
70) SURR2,BFB	11.994	95	127478	50.42	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.84%			
Target Compounds						Qvalue
18) Iodomethane	1.972	142	485	0.27	ug/L	95
19) Carbon Disulfide	2.008	76	974	0.20	ug/L	76

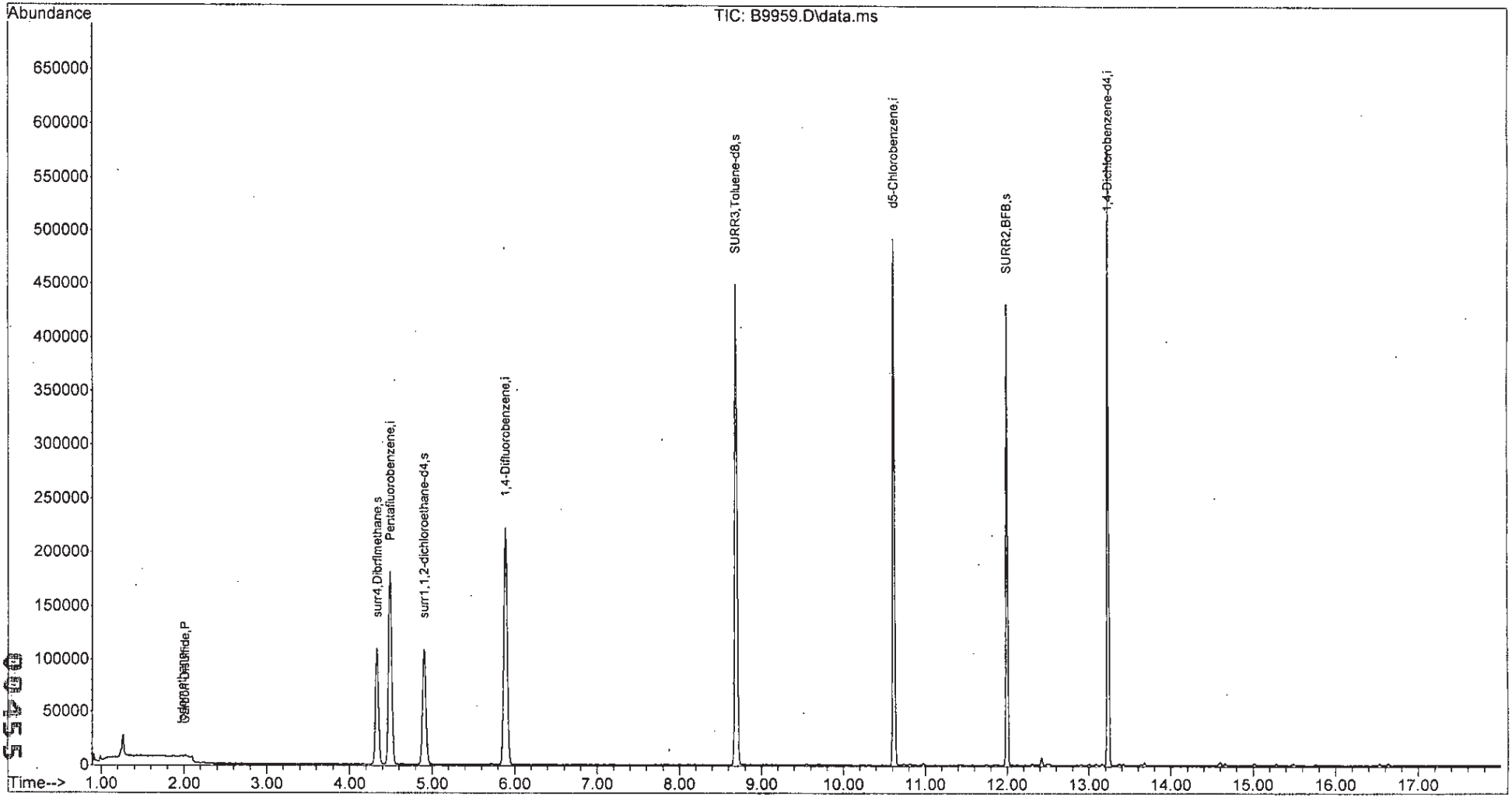
(#) = qualifier out of range (m) = manual integration (+) = signals summed

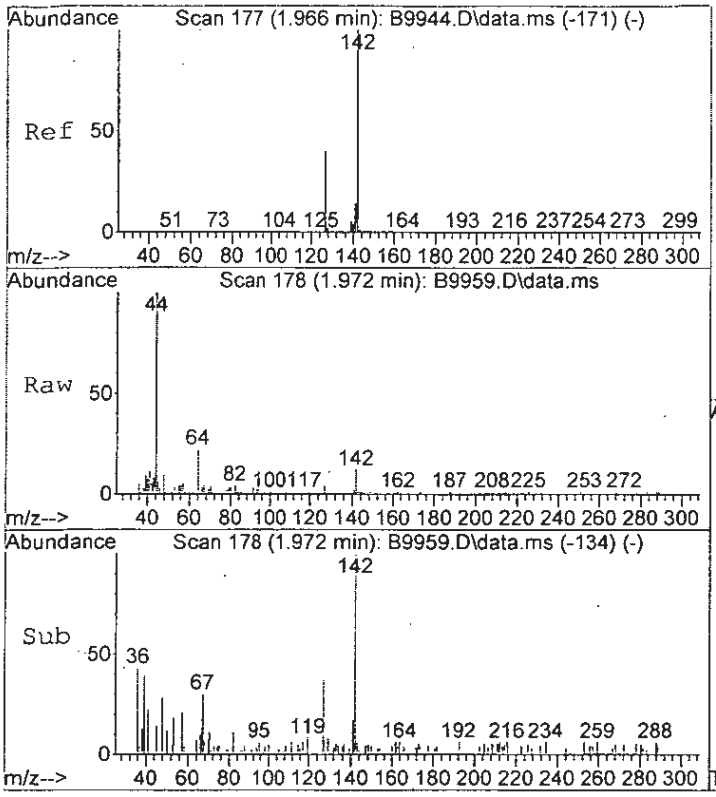
00454

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9959.D
Acq On : 23 Mar 2015 10:31 am
Operator : B WOJTASIEWICZ
Sample : MBLANK Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 25 08:43:08 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

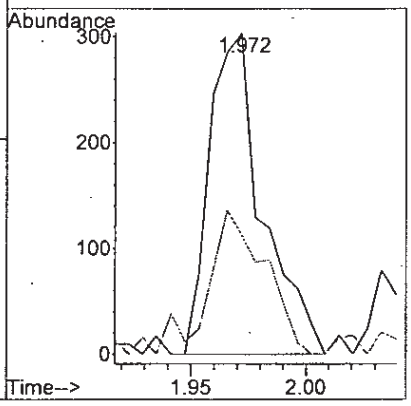


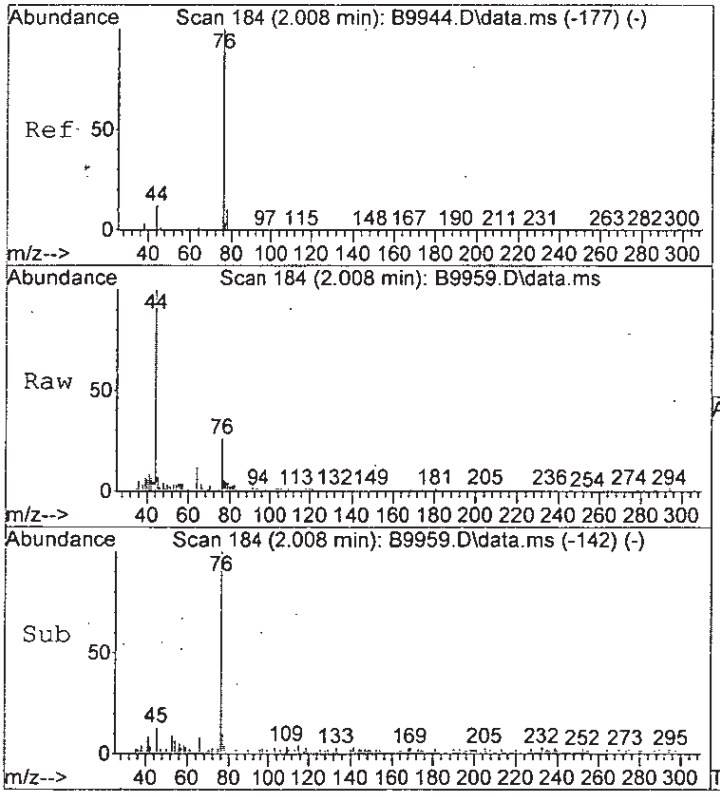


#18
Iodomethane
Concen: 0.27 ug/L
RT: 1.972 min Scan# 178
Delta R.T. 0.006 min
Lab File: B9959.D
Acq: 23 Mar 2015 10:31 am

Tgt Ion:142 Resp: 485

Ion	Ratio	Lower	Upper
142	100		
127	37.3	20.3	60.3

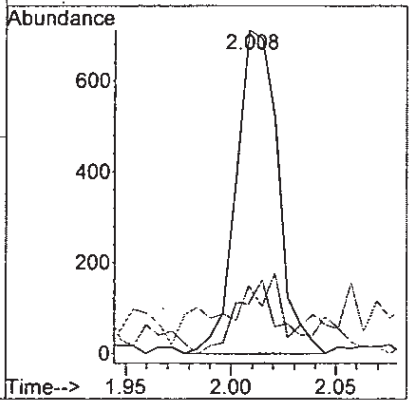




#19
Carbon Disulfide
Concen: 0.20 ug/L
RT: 2.008 min Scan# 184
Delta R.T. -0.000 min
Lab File: B9959.D
Acq: 23 Mar 2015 10:31 am

Tgt Ion: 76 Resp: 974

Ion	Ratio	Lower	Upper
76	100		
78	15.5	0.0	29.7
77	21.0	0.0	22.7



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	3/25/15 11:53
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1502930-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437635
Data File Name:	I:\ACQUDATA\msvoa10\data\032515\A7189.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	3/25/15 11:53	
Dibromofluoromethane	101	89-119	3/25/15 11:53	
Toluene-d8	104	87-121	3/25/15 11:53	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7189.D
Acq On : 25 Mar 2015 11:53 am
Operator : F. NAEGLER
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 26 12:09:45 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	803669	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1165447	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1115030	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	652773	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.835	113	353406	50.73	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.46%			
46) surr1,1,2-dichloroetha...	5.414	65	416834	57.48	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 114.96%			
64) SURR3,Toluene-d8	8.041	98	1397459	52.24	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.48%			
69) SURR2,BFB	10.675	95	581640	49.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.14%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

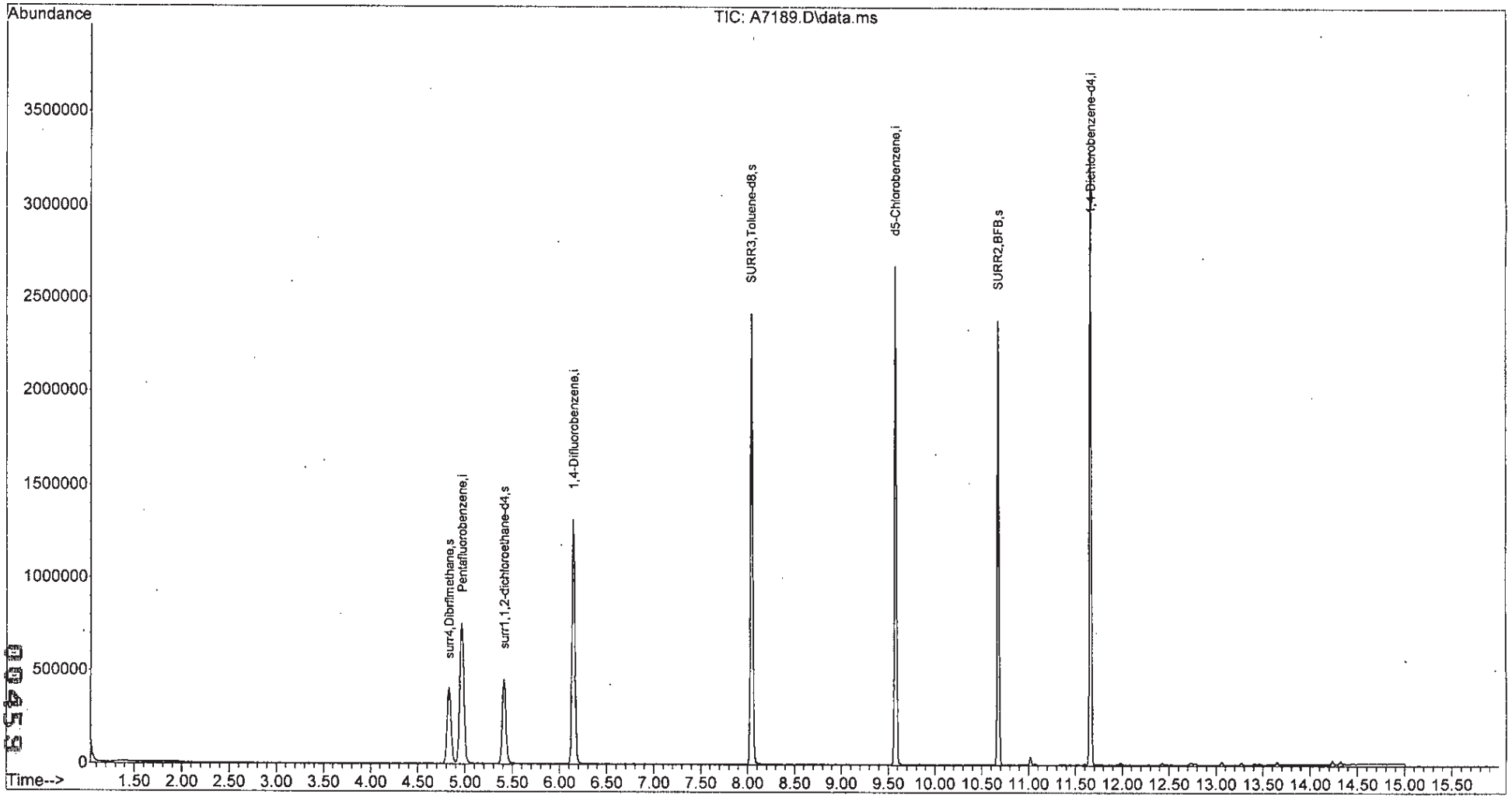
FJ 3/26/15

00458

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7189.D
Acq On : 25 Mar 2015 11:53 am
Operator : F. NAEGLER
Sample : MBLK .Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 26 12:09:45 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	3/23/15 09:35
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1502855-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	437305
Data File Name:	I:\ACQUDATA\MSVOA14\Data\032315\B9957.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**19.2**		5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**19.4**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**17.7**		5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	**19.4**		5.0	0.30	
79-01-6	Trichloroethene (TCE)	**19.1**		5.0	0.22	
75-01-4	Vinyl Chloride	**18.8**		5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**19.6**		5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	**19.0**		5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85-122	3/23/15 09:35	
Dibromofluoromethane	104	89-119	3/23/15 09:35	
Toluene-d8	103	87-121	3/23/15 09:35	

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9957.D
Acq On : 23 Mar 2015 9:35 am
Operator : B WOJTASIEWICZ
Sample : LCS/ICV 20ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

BL 03/24/15

Quant Time: Mar 24 06:48:47 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

RQ1502855-03

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	179370	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.886	114	299110	50.00	ug/L	0.00
71) d5-Chlorobenzene	10.617	117	265294	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	13.232	152	126254	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.331	113	94561	51.88	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.76%			
48) surr1,1,2-dichloroetha...	4.904	65	117731	51.50	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.00%			
65) SURR3,Toluene-d8	8.690	98	353049	51.39	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.78%			
70) SURR2,BFB	11.994	95	139242	51.50	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.936	85	41243	20.79	ug/L	99
4) Chloromethane	1.033	50	39410	18.87	ug/L	96
5) Vinyl Chloride	1.100	62	40879	18.82	ug/L	96
6) Bromomethane	1.283	94	24965	20.43	ug/L	97
7) Chloroethane	1.350	64	26357	18.52	ug/L	97
8) Freon 21	1.478	67	78926	20.76	ug/L	100
9) Trichlorofluoromethane	1.515	101	55812	19.54	ug/L	100
10) Diethyl Ether	1.710	59	34229	19.88	ug/L	96
11) Freon 123a	1.710	67	48184	20.69	ug/L	100
12) Freon 123	1.759	83	53860	19.20	ug/L	96
13) Acrolein	1.789	56	15004	33.07	ug/L	95
14) 1,1-Diclethene	1.862	96	32708	17.71	ug/L	91
15) Freon 113	1.868	101	33234	20.23	ug/L	91
16) Acetone	1.905	43	12848	14.30	ug/L	95
17) 2-Propanol	2.027	45	55734	271.10	ug/L	99
18) Iodomethane	1.966	142	31813	16.42	ug/L	97
19) Carbon Disulfide	2.015	76	93183	18.15	ug/L	99
20) Acetonitrile	2.106	40	15594m	81.89	ug/L	
21) Allyl Chloride	2.130	76	19380	19.71	ug/L	94
22) Methyl Acetate	2.167	43	29932	16.03	ug/L	97
23) Methylene Chloride	2.234	84	38353	18.30	ug/L	99
24) TBA	2.374	59	92140	279.49	ug/L	98
25) Acrylonitrile	2.447	53	78527	80.60	ug/L	97
26) Methyl-t-Butyl Ether	2.496	73	119724	19.36	ug/L	100
27) trans-1,2-Dichloroethene	2.478	96	36203	18.98	ug/L	98
28) 1,1-Diclethane	2.886	63	62600	19.36	ug/L	98
29) Vinyl Acetate	2.984	86	9143	19.35	ug/L	98
30) DIPE	3.020	45	92764	16.68	ug/L	97
31) 2-Chloro-1,3-Butadiene	2.996	53	51881	16.57	ug/L	99
32) ETBE	3.465	59	98806	16.49	ug/L	98
33) 2,2-Dichloropropane	3.581	77	55472	20.73	ug/L	100
34) cis-1,2-Dichloroethene	3.587	96	41662	19.62	ug/L	98
35) 2-Butanone	3.654	43	18299	14.39	ug/L	98
36) Propionitrile	3.709	54	31377	78.66	ug/L	97

00461

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9957.D
Acq On : 23 Mar 2015 9:35 am
Operator : B WOJTASIEWICZ
Sample : LCS/ICV 20ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 06:48:47 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	3.917	130	26347	20.64	ug/L	98
38) Methacrylonitrile	3.929	67	18328	16.67	ug/L	98
39) Tetrahydrofuran	4.020	42	11899	15.47	ug/L	83
40) Chloroform	4.081	83	67688	19.67	ug/L	95
41) 1,1,1-Trichloroethane	4.331	97	55619	19.20	ug/L	95
42) TAME	5.355	73	100268	17.22	ug/L	99
44) Cyclohexane	4.417	41	31782	19.25	ug/L	97
46) Carbontetrachloride	4.618	121	12704	19.32	ug/L	96
47) 1,1-Dichloropropene	4.630	75	45889	19.04	ug/L	97
49) Benzene	4.996	78	146876	18.87	ug/L	99
50) 1,2-Dichloroethane	5.051	62	56111	18.75	ug/L	99
51) Iso-Butyl Alcohol	5.112	43	35461	280.02	ug/L	97
52) n-Heptane	5.715	43	39699	26.65	ug/L	94
53) 1-Butanol	6.562	56	53119	632.76	ug/L	100
54) Trichloroethene	6.373	130	37185	19.06	ug/L	94
55) Methylcyclohexane	6.745	55	48148	20.44	ug/L	97
56) 1,2-Diclpropane	6.825	63	37044	19.09	ug/L	92
57) Dibromomethane	7.062	93	26534	19.56	ug/L	97
58) 1,4-Dioxane	7.221	88	12103	317.90	ug/L	98
59) Methyl Methacrylate	7.318	69	30383	17.11	ug/L	98
60) Bromodichloromethane	7.477	83	52550	20.14	ug/L	99
61) 2-Nitropropane	7.916	41	21487	32.30	ug/L	95
62) 2-Chloroethylvinyl Ether	8.148	63	26311	17.29	ug/L	95
63) cis-1,3-Dichloropropene	8.294	75	61874	20.02	ug/L	98
64) 4-Methyl-2-pentanone	8.623	43	37579	15.48	ug/L	94
66) Toluene	8.788	91	160535	19.30	ug/L	98
67) trans-1,3-Dichloropropene	9.184	75	57627	19.85	ug/L	99
68) Ethyl Methacrylate	9.416	69	53035	17.19	ug/L	94
69) 1,1,2-Trichloroethane	9.409	97	37237	18.74	ug/L	96
72) Tetrachloroethene	9.556	164	28535	19.42	ug/L	95
73) 2-Hexanone	9.830	43	26495	14.70	ug/L	96
74) 1,3-Dichloropropane	9.617	76	63902	18.85	ug/L	98
75) Dibromochloromethane	9.903	129	38027	19.69	ug/L	96
76) N-Butyl Acetate	10.062	43	60624	16.81	ug/L	97
77) 1,2-Dibromoethane	9.995	107	40426	19.18	ug/L	96
78) 3-Chlorobenzotrifluoride	10.732	180	48370	19.35	ug/L	100
79) Chlorobenzene	10.647	112	103638	19.24	ug/L	97
80) 4-Chlorobenzotrifluoride	10.806	180	43599	19.85	ug/L	97
81) 1,1,1,2-Tetrachloroethane	10.775	131	35345	19.83	ug/L	98
82) Ethylbenzene	10.824	106	50739	17.62	ug/L	92
83) (m+p)Xylene	10.970	106	136749	39.62	ug/L	97
84) o-Xylene	11.421	106	65759	19.22	ug/L	98
85) Styrene	11.440	104	113518	19.60	ug/L	99
86) Bromoform	11.604	173	24734	18.84	ug/L	99
87) 2-Chlorobenzotrifluoride	11.750	180	46605	19.00	ug/L	98
88) Isopropylbenzene	11.860	105	166321	19.29	ug/L	98
89) Cyclohexanone	11.909	55	52629	295.17	ug/L	99
90) trans-1,4-Dichloro-2-B...	12.263	53	12202	14.67	ug/L	97
92) 1,1,2,2-Tetrachloroethane	12.202	83	52561	18.07	ug/L	96
93) Bromobenzene	12.128	156	42406	20.39	ug/L	98
95) 1,2,3-Trichloropropane	12.220	110	15826	17.87	ug/L	93

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9957.D
Acq On : 23 Mar 2015 9:35 am
Operator : B WOJTASIEWICZ
Sample : LCS/ICV 20ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

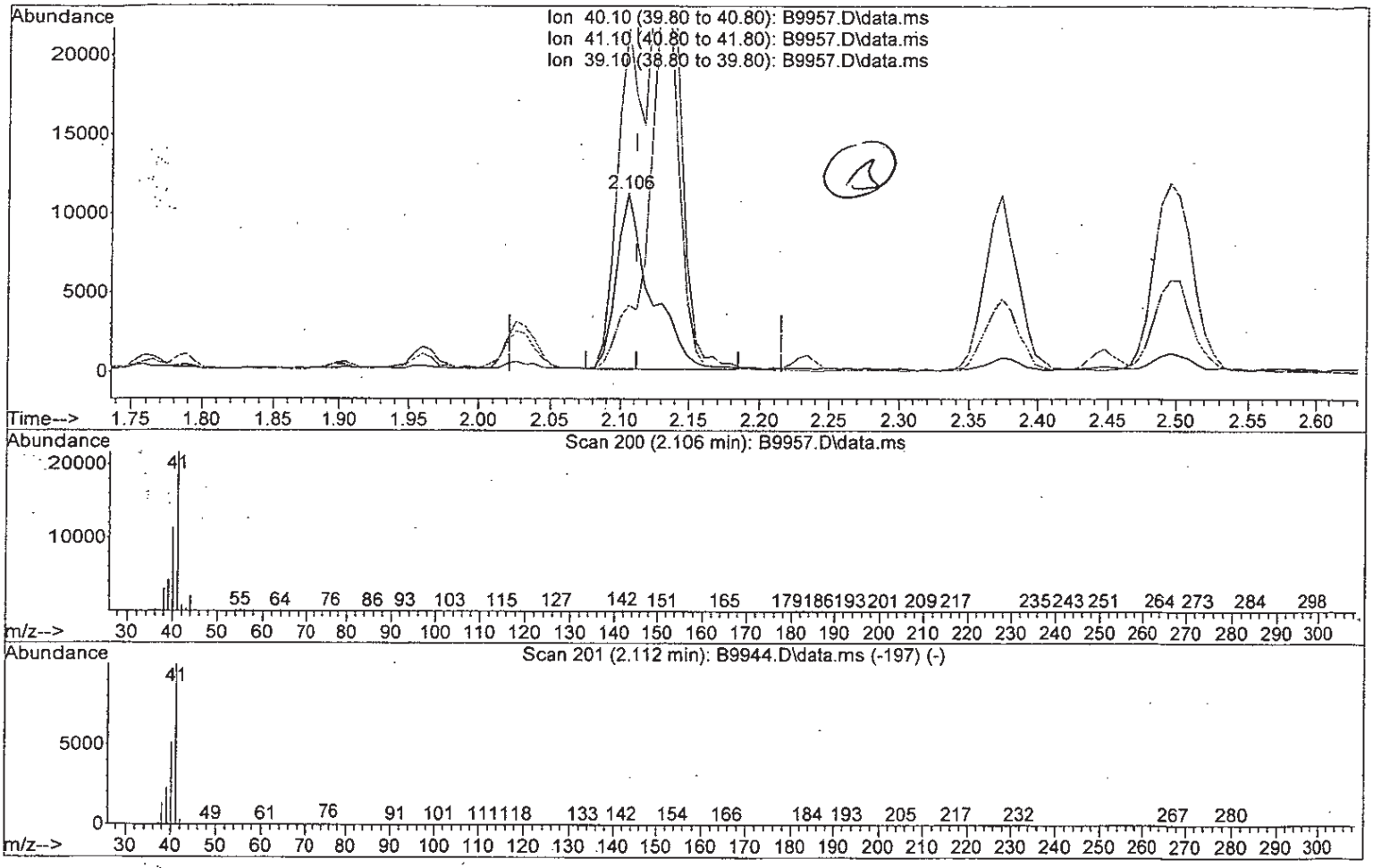
Quant Time: Mar 24 06:48:47 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) n-Propylbenzene	12.311	91	197246	20.30	ug/L	98
97) 2-Chlorotoluene	12.366	91	120729	20.16	ug/L	97
98) 3-Chlorotoluene	12.433	91	118828	19.61	ug/L	98
99) 4-Chlorotoluene	12.488	91	142504	20.47	ug/L	99
100) 1,3,5-Trimethylbenzene	12.512	105	138686	20.60	ug/L	98
101) tert-Butylbenzene	12.854	119	112850	19.77	ug/L	100
102) 1,2,4-Trimethylbenzene	12.903	105	139972	20.29	ug/L	99
103) 3,4-Dichlorobenzotrifl...	13.006	214	34250	20.17	ug/L	99
104) sec-Butylbenzene	13.086	105	174733	20.79	ug/L	99
105) p-Isopropyltoluene	13.250	119	144265	20.84	ug/L	99
106) 1,3-Dclbenz	13.159	146	80200	20.35	ug/L	96
107) 1,4-Dclbenz	13.256	146	82954	19.94	ug/L	99
108) 2,4-Dichlorobenzotrifl...	13.366	214	31738	20.18	ug/L	100
109) 2,5-Dichlorobenzotrifl...	13.421	214	35499	19.91	ug/L	98
111) n-Butylbenzene	13.677	91	141146	21.65	ug/L	98
112) 1,2-Dclbenz	13.634	146	77048	19.50	ug/L	99
113) 1,2-Dibromo-3-chloropr...	14.439	157	8170	15.92	ug/L	99
114) Trielution Dichlorotol...	14.604	125	189287	57.21	ug/L	98
115) 1,3,5-Trichlorobenzene	14.665	180	48206	18.95	ug/L	98
116) Coelution Dichlorotoluene	15.012	125	127996	36.48	ug/L	98
117) 1,2,4-Tcbenzene	15.280	180	40421	18.25	ug/L	99
118) Hexachlorobt	15.481	225	17735	22.40	ug/L	99
119) Naphthalen	15.512	128	94635	15.53	ug/L	99
120) 1,2,3-Tclbenzene	15.762	180	29989	16.28	ug/L	98
121) 2,4,5-Trichlorotoluene	16.530	159	16120	18.54	ug/L	97
122) 2,3,6-Trichlorotoluene	16.634	159	14927	19.16	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9957.D
Acq On : 23 Mar 2015 9:35 am
Operator : B WOJTASIEWICZ
Sample : LCS/ICV 20ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 06:47:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration



TIC: B9957.D\data.ms

(20) Acetonitrile

2.106min (-0.006) 102.47 ug/L

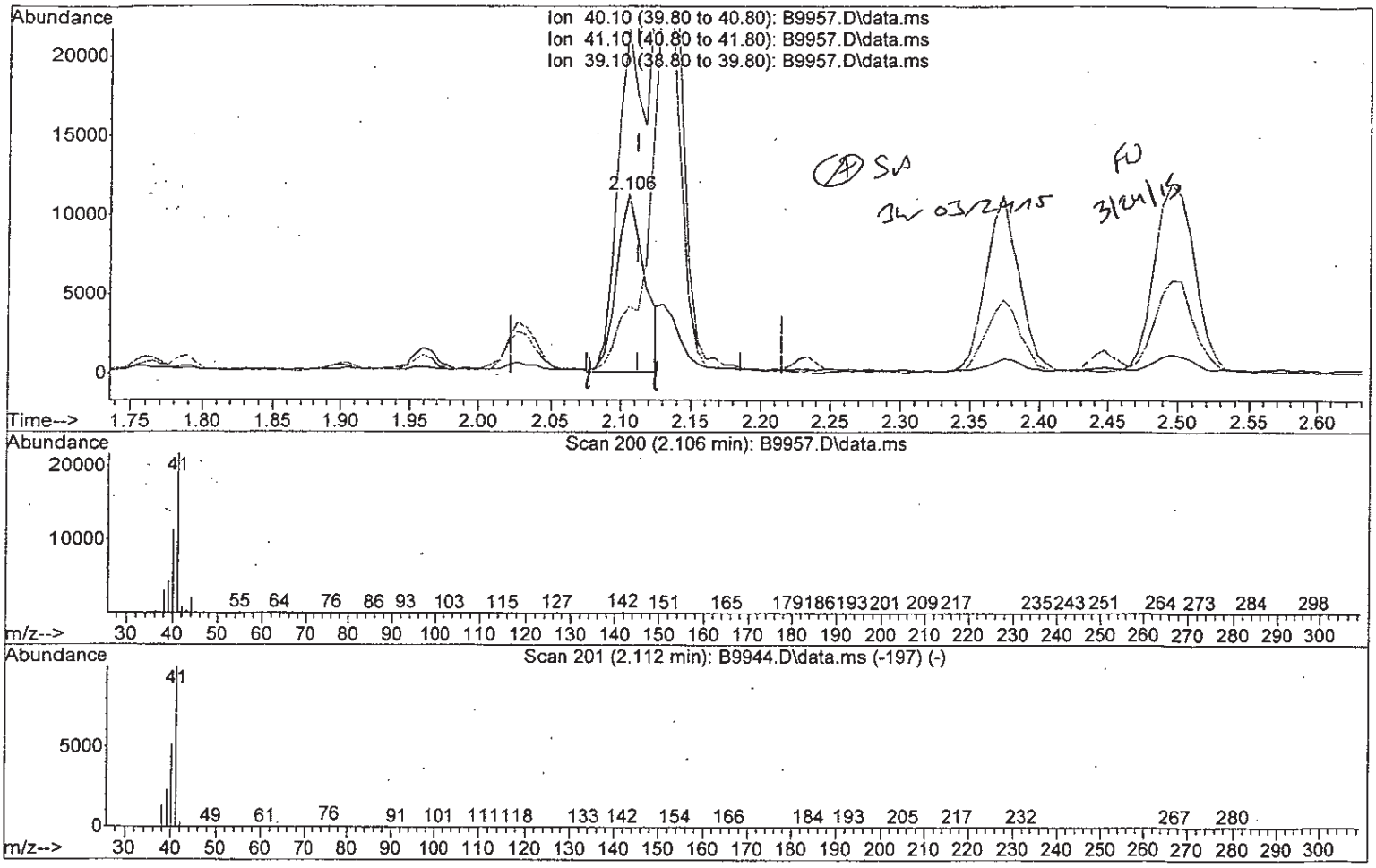
response 19513

Ion	Exp%	Act%
40.10	100	100
41.10	193.60	191.74
39.10	44.50	37.18
0.00	0.00	0.00

00464

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9957.D
Acq On : 23 Mar 2015 9:35 am
Operator : B WOJTASIEWICZ
Sample : LCS/ICV 20ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 06:47:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration



TIC: B9957.D\data.ms

(20) Acetonitrile

2.106min (-0.006) 81.89 ug/L m

response 15594

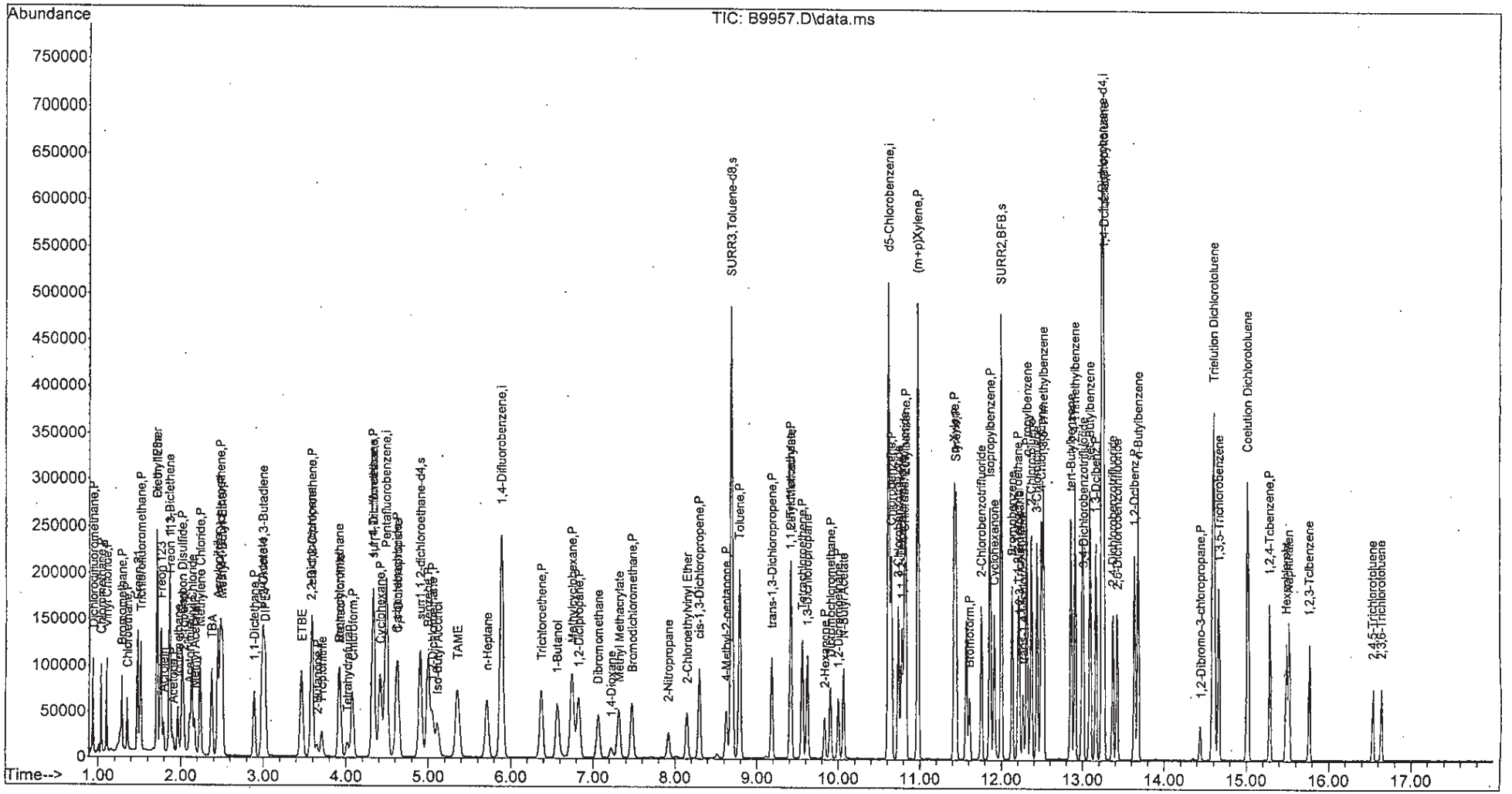
Ion	Exp%	Act%
40.10	100	100
41.10	193.60	191.74
39.10	44.50	37.18
0.00	0.00	0.00

00465

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\032315\
Data File : B9957.D
Acq On : 23 Mar 2015 9:35 am
Operator : B WOJTASIEWICZ
Sample : LCS/ICV 20ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 06:48:47 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Mar 23 08:17:51 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	3/25/15 10:50
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1502930-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437635
Data File Name:	I:\ACQUDATA\msvoa10\data\032515\A7187.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**19.0**		5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**22.5**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**18.4**		5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	**19.6**		5.0	0.30	
79-01-6	Trichloroethene (TCE)	**19.1**		5.0	0.22	
75-01-4	Vinyl Chloride	**21.0**		5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**18.9**		5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	**18.5**		5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	3/25/15 10:50	
Dibromofluoromethane	101	89-119	3/25/15 10:50	
Toluene-d8	104	87-121	3/25/15 10:50	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7187.D
Acq On : 25 Mar 2015 10:50 am
Operator : F. NAEGLER
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 11:06:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

FJ 3/25/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	812564	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.146	114	1198095	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1147144	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	668627	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.829	113	362863	50.67	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.34%			
46) surr1,1,2-dichloroetha...	5.408	65	413572	55.47	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 110.94%			
64) SURR3,Toluene-d8	8.042	98	1425622	51.84	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.68%			
69) SURR2,BFB	10.675	95	606216	50.25	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.165	85	189267	24.53	ug/L	97
3) Chloromethane	1.281	50	249013	25.78	ug/L	99
4) Vinyl Chloride	1.348	62	188673	20.97	ug/L	100
5) Bromomethane	1.567	94	63637	22.08	ug/L	93
6) Chloroethane	1.634	64	101285	19.68	ug/L	93
7) Freon 21	1.762	67	299869	21.37	ug/L	99
8) Trichlorofluoromethane	1.811	101	209757	18.85	ug/L	99
9) Diethyl Ether	2.012	59	125307	21.50	ug/L	84
10) Freon 123a	2.012	67	178395	20.37	ug/L	92
11) Freon 123	2.061	83	180192	18.60	ug/L #	74
12) Acrolein	2.110	56	34178	40.27	ug/L	84
13) 1,1-Diclethene	2.195	96	114405	18.40	ug/L #	78
14) Freon 113	2.195	101	128545	18.81	ug/L	92
15) Acetone	2.226	43	44305	23.12	ug/L	98
16) 2-Propanol	2.329	45	152791	435.26	ug/L	91
17) Iodomethane	2.323	142	102791	30.37	ug/L	96
18) Carbon Disulfide	2.378	76	461292	20.24	ug/L	99
19) Acetonitrile	2.451	40	33155	124.48	ug/L	98
20) Allyl Chloride	2.488	76	71618	19.45	ug/L #	23
21) Methyl Acetate	2.500	43	94961	22.16	ug/L	89
22) Methylene Chloride	2.598	84	138427	20.04	ug/L #	77
23) TBA	2.689	59	210656	397.05	ug/L	80
24) Acrylonitrile	2.817	53	223647	113.68	ug/L	100
25) Methyl-t-Butyl Ether	2.860	73	361029	19.71	ug/L	93
26) trans-1,2-Dichloroethene	2.860	96	130908	18.52	ug/L #	78
27) 1,1-Diclethane	3.305	63	295730	22.46	ug/L	98
28) Vinyl Acetate	3.378	86	22959	18.36	ug/L #	80
29) DIPE	3.402	45	633808	22.18	ug/L	80
30) 2-Chloro-1,3-Butadiene	3.421	53	344489	22.55	ug/L	85
31) ETBE	3.872	59	475523	19.68	ug/L	92
32) 2,2-Dichloropropane	4.055	77	219734	21.32	ug/L	97
33) cis-1,2-Dichloroethene	4.055	96	148446	18.85	ug/L #	68
34) 2-Butanone	4.085	43	62588	23.82	ug/L	91
35) Propionitrile	4.158	54	81897	114.84	ug/L	94

00468

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7187.D
Acq On : 25 Mar 2015 10:50 am
Operator : F. NAEGLER
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 11:06:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	4.414	130	86434	19.58	ug/L	#	69
37) Methacrylonitrile	4.402	67	40260	19.18	ug/L	#	64
38) Tetrahydrofuran	4.487	42	39384	22.81	ug/L		71
39) Chloroform	4.561	83	245508	19.74	ug/L		90
40) 1,1,1-Trichloroethane	4.853	97	216933	19.02	ug/L		95
42) Cyclohexane	4.951	41	216195	23.60	ug/L		93
44) Carbontetrachloride	5.158	121	61537	18.87	ug/L		91
45) 1,1-Dichloropropene	5.164	75	185190	19.17	ug/L		99
47) Benzene	5.499	78	570484	19.55	ug/L		82
48) 1,2-Dichloroethane	5.536	62	213463	21.91	ug/L		93
49) Iso-Butyl Alcohol	5.481	43	118653	450.21	ug/L		87
50) TAME	5.737	73	339928	18.12	ug/L		87
51) n-Heptane	6.005	43	255408	25.35	ug/L		83
52) 1-Butanol	6.511	56	153291	1019.00	ug/L		81
53) Trichloroethene	6.493	130	150560	19.08	ug/L		97
54) Methylcyclohexane	6.743	55	252184	23.13	ug/L	#	78
55) 1,2-Diclpropane	6.792	63	178943	22.99	ug/L		98
56) Dibromomethane	6.938	93	76275	19.47	ug/L		97
57) 1,4-Dioxane	7.005	88	21111	418.34	ug/L	#	67
58) Methyl Methacrylate	7.024	69	70490	18.61	ug/L	#	70
59) Bromodichloromethane	7.170	83	191214	19.62	ug/L		96
60) 2-Nitropropane	7.462	41	68742	42.25	ug/L		99
61) 2-Chloroethylvinyl Ether	7.597	63	80217	21.62	ug/L		90
62) cis-1,3-Dichloropropene	7.737	75	230121	19.78	ug/L		98
63) 4-Methyl-2-pentanone	7.950	43	136404	22.90	ug/L		92
65) Toluene	8.121	91	621505	20.04	ug/L		98
66) trans-1,3-Dichloropropene	8.395	75	204782	20.28	ug/L		97
67) Ethyl Methacrylate	8.541	69	140379	17.74	ug/L	#	54
68) 1,1,2-Trichloroethane	8.590	97	103983	18.01	ug/L		96
71) Tetrachloroethene	8.730	164	124958	19.64	ug/L		95
72) 2-Hexanone	8.889	43	95127	23.11	ug/L		95
73) 1,3-Dichloropropane	8.767	76	199106	22.07	ug/L	#	78
74) Dibromochloromethane	8.999	129	135734	18.95	ug/L		99
75) N-Butyl Acetate	9.054	43	235430	22.87	ug/L		95
76) 1,2-Dibromoethane	9.096	107	104940	19.25	ug/L		99
77) 3-Chlorobenzotrifluoride	9.627	180	226663	18.48	ug/L		93
78) Chlorobenzene	9.602	112	425749	20.26	ug/L		98
79) 4-Chlorobenzotrifluoride	9.682	180	200971	18.01	ug/L		98
80) 1,1,1,2-Tetrachloroethane	9.694	131	155976	19.79	ug/L		98
81) Ethylbenzene	9.730	106	208759	18.66	ug/L		99
82) (m+p)Xylene	9.840	106	558771	41.34	ug/L	#	84
83) o-Xylene	10.206	106	271050	20.03	ug/L		94
84) Styrene	10.218	104	474399	20.38	ug/L		97
85) Bromoform	10.377	173	82056	18.56	ug/L		98
86) 2-Chlorobenzotrifluoride	10.456	180	221261	18.37	ug/L		93
87) Isopropylbenzene	10.547	105	703450	21.23	ug/L		100
88) Cyclohexanone	10.614	55	204074	463.46	ug/L		95
89) trans-1,4-Dichloro-2-B...	10.864	53	37004	16.39	ug/L		86
91) 1,1,2,2-Tetrachloroethane	10.815	83	131658	20.24	ug/L		96
92) Bromobenzene	10.797	156	185666	20.34	ug/L		97
93) 1,2,3-Trichloropropane	10.840	110	36360	20.10	ug/L	#	70

00469

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7187.D
Acq On : 25 Mar 2015 10:50 am
Operator : F. NAEGLER
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 11:06:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	10.907	91	836742	22.53	ug/L	98
95)	2-Chlorotoluene	10.974	91	516048	21.93	ug/L	99
96)	3-Chlorotoluene	11.029	91	509265	20.27	ug/L	99
97)	4-Chlorotoluene	11.065	91	610672	21.85	ug/L	99
98)	1,3,5-Trimethylbenzene	11.065	105	614499	22.04	ug/L	99
99)	tert-Butylbenzene	11.340	119	507791	21.07	ug/L	98
100)	1,2,4-Trimethylbenzene	11.376	105	632546	21.94	ug/L	99
101)	3,4-Dichlorobenzotrifl...	11.443	214	178428	19.81	ug/L	97
102)	sec-Butylbenzene	11.523	105	732848	22.21	ug/L	98
103)	p-Isopropyltoluene	11.645	119	652601	22.48	ug/L	99
104)	1,3-Dclbenz	11.602	146	386397	21.49	ug/L	99
105)	1,4-Dclbenz	11.681	146	391212	21.06	ug/L	97
106)	2,4-Dichlorobenzotrifl...	11.736	214	164062	19.70	ug/L	96
107)	2,5-Dichlorobenzotrifl...	11.773	214	187011	20.28	ug/L	96
108)	n-Butylbenzene	11.980	91	591916	23.02	ug/L	97
109)	1,2-Dclbenz	11.986	146	353311	21.09	ug/L	100
110)	1,2-Dibromo-3-chloropr...	12.614	157	24123	18.61	ug/L	93
111)	Trielution Dichlorotol...	12.730	125	938563	63.35	ug/L	99
112)	1,3,5-Trichlorobenzene	12.785	180	273698	21.87	ug/L	97
113)	Coelution Dichlorotoluene	13.059	125	671123	43.61	ug/L	98
114)	1,2,4-Tcbenzene	13.266	180	243562	23.13	ug/L	96
115)	Hexachlorobt	13.406	225	109639	23.41	ug/L	95
116)	Naphthalen	13.461	128	383151	20.67	ug/L	99
117)	1,2,3-Tclbenzene	13.650	180	183418	23.36	ug/L	99
118)	2,4,5-Trichlorotoluene	14.236	159	117185	22.93	ug/L	98
119)	2,3,6-Trichlorotoluene	14.321	159	105927	24.30	ug/L	95

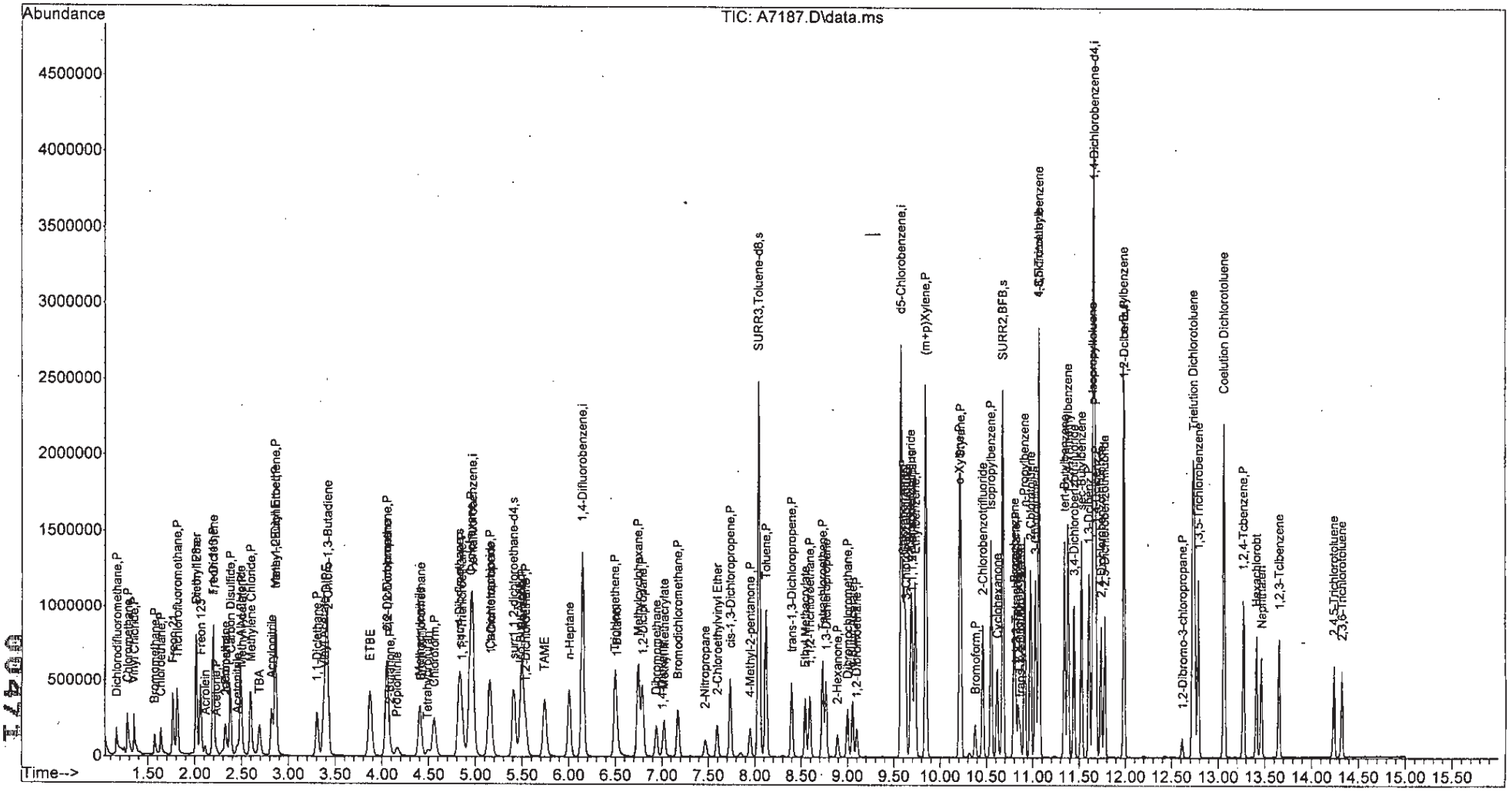
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00478

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7187.D
Acq On : 25 Mar 2015 10:50 am
Operator : F. NAEGLER
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 11:06:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15 1355
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/25/15 19:46
Sample Name:	MW-8	**Units:**	µg/L
Lab Code:	RQ1502930-05	**Basis:**	NA
Run Type:	Matrix Spike		

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437635
Data File Name:	I:\ACQUDATA\msvoa10\data\032515\A7205.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**51.9**		5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**59.9**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**44.3**		5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	**47.6**		5.0	0.30	
79-01-6	Trichloroethene (TCE)	**54.3**		5.0	0.22	
75-01-4	Vinyl Chloride	**50.4**		5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**46.1**		5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	**45.8**		5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	3/25/15 19:46	
Dibromofluoromethane	102	89-119	3/25/15 19:46	
Toluene-d8	104	87-121	3/25/15 19:46	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7205.D
Acq On : 25 Mar 2015 7:46 pm
Operator : F. NAEGLER
Sample : R1501980-003MS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 26 13:00:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

FV 3/26/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.969	168	823905	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.152	114	1218605	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.578	117	1170163	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	684013	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	4.829	113	370112	50.82	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.64%				
46) surr1,1,2-dichloroetha...	5.414	65	433023	57.11	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 114.22%				
64) SURR3,Toluene-d8	8.042	98	1458284	52.14	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.28%				
69) SURR2,BFB	10.675	95	613295	49.99	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.98%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.159	85	453140	57.93	ug/L		96
3) Chloromethane	1.281	50	562751	57.45	ug/L		98
4) Vinyl Chloride	1.348	62	459646	50.37	ug/L		98
5) Bromomethane	1.567	94	22192m	8.04	ug/L		
6) Chloroethane	1.634	64	242463	46.46	ug/L		96
7) Freon 21	1.762	67	661032	46.46	ug/L		98
8) Trichlorofluoromethane	1.811	101	511867	45.38	ug/L		98
9) Diethyl Ether	2.012	59	290142	49.11	ug/L		85
10) Freon 123a	2.012	67	434374	48.91	ug/L		90
11) Freon 123	2.061	83	407851m	41.53	ug/L		
12) Acrolein	2.104	56	37839	43.97	ug/L		90
13) 1,1-Diclethene	2.195	96	279381	44.31	ug/L	#	83
14) Freon 113	2.195	101	378829	54.66	ug/L		98
15) Acetone	2.219	43	151822	78.14	ug/L		98
16) 2-Propanol	2.329	45	307564	864.10	ug/L		98
17) Iodomethane	2.317	142	14032	6.67	ug/L		93
18) Carbon Disulfide	2.378	76	1032944	44.70	ug/L		100
19) Acetonitrile	2.451	40	75891	281.02	ug/L	#	86
20) Allyl Chloride	2.488	76	123822	33.16	ug/L	#	37
21) Methyl Acetate	2.500	43	206978	47.64	ug/L		89
22) Methylene Chloride	2.591	84	321255	45.88	ug/L	#	67
23) TBA	2.689	59	472844	878.96	ug/L		78
24) Acrylonitrile	2.817	53	486930	244.10	ug/L		98
25) Methyl-t-Butyl Ether	2.860	73	830906	44.75	ug/L		88
26) trans-1,2-Dichloroethene	2.860	96	328476	45.82	ug/L	#	86
27) 1,1-Diclethane	3.305	63	799886	59.90	ug/L		97
28) Vinyl Acetate	3.372	86	49662	39.17	ug/L		99
29) DIPE	3.402	45	1519038	52.44	ug/L	#	77
30) 2-Chloro-1,3-Butadiene	3.414	53	562568	36.31	ug/L		86
31) ETBE	3.872	59	1093579	44.64	ug/L		93
32) 2,2-Dichloropropane	4.054	77	452786	43.33	ug/L		99
33) cis-1,2-Dichloroethene	4.054	96	367684	46.05	ug/L	#	83
34) 2-Butanone	4.085	43	139591	52.40	ug/L		92
35) Propionitrile	4.164	54	177195	245.06	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7205.D
Acq On : 25 Mar 2015 7:46 pm
Operator : F. NAEGLER
Sample : R1501980-003MS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 26 13:00:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	4.408	130	208528	46.59	ug/L	#	67
37) Methacrylonitrile	4.402	67	87519	41.12	ug/L	#	53
38) Tetrahydrofuran	4.487	42	94175	53.78	ug/L		70
39) Chloroform	4.560	83	601063	47.67	ug/L		94
40) 1,1,1-Trichloroethane	4.853	97	600520	51.92	ug/L		91
42) Cyclohexane	4.951	41	494570	53.07	ug/L		96
44) Carbontetrachloride	5.152	121	154778	46.67	ug/L		95
45) 1,1-Dichloropropene	5.158	75	463256	47.15	ug/L		99
47) Benzene	5.499	78	1393776	46.97	ug/L		86
48) 1,2-Dichloroethane	5.536	62	497607	50.21	ug/L		92
49) Iso-Butyl Alcohol	5.481	43	262294	978.48	ug/L		92
50) TAME	5.743	73	797379	41.80	ug/L		87
51) n-Heptane	6.005	43	521634	50.91	ug/L		84
52) 1-Butanol	6.511	56	301776	1972.29	ug/L		84
53) Trichloroethene	6.493	130	436037	54.32	ug/L		96
54) Methylcyclohexane	6.743	55	558401	50.35	ug/L	#	76
55) 1,2-Diclpropane	6.792	63	420196	53.08	ug/L		94
56) Dibromomethane	6.938	93	171977	43.17	ug/L		94
57) 1,4-Dioxane	7.005	88	37621	732.96	ug/L	#	66
58) Methyl Methacrylate	7.023	69	162889	42.27	ug/L	#	70
59) Bromodichloromethane	7.170	83	455810	45.98	ug/L		99
60) 2-Nitropropane	7.462	41	163337	98.70	ug/L		96
61) 2-Chloroethylvinyl Ether	7.596	63	171689	45.49	ug/L		91
62) cis-1,3-Dichloropropene	7.737	75	135145	11.42	ug/L		99
63) 4-Methyl-2-pentanone	7.950	43	308275	50.88	ug/L		90
65) Toluene	8.121	91	1526764	48.40	ug/L		97
66) trans-1,3-Dichloropropene	8.395	75	290227	28.26	ug/L		98
67) Ethyl Methacrylate	8.541	69	342661	42.57	ug/L	#	63
68) 1,1,2-Trichloroethane	8.590	97	240645	40.98	ug/L		97
71) Tetrachloroethene	8.730	164	308867	47.58	ug/L		97
72) 2-Hexanone	8.889	43	218055	51.94	ug/L		91
73) 1,3-Dichloropropane	8.767	76	453029	49.23	ug/L	#	82
74) Dibromochloromethane	8.999	129	316678	43.35	ug/L		99
75) N-Butyl Acetate	9.054	43	558662	53.21	ug/L		94
76) 1,2-Dibromoethane	9.096	107	243886	43.86	ug/L		99
77) 3-Chlorobenzotrifluoride	9.627	180	585740	46.81	ug/L		98
78) Chlorobenzene	9.608	112	1015385	47.37	ug/L		98
79) 4-Chlorobenzotrifluoride	9.681	180	524595	46.09	ug/L		97
80) 1,1,1,2-Tetrachloroethane	9.694	131	370570	46.09	ug/L		96
81) Ethylbenzene	9.730	106	509071	44.61	ug/L		100
82) (m+p)Xylene	9.846	106	1377840	99.93	ug/L		89
83) o-Xylene	10.206	106	654332	47.41	ug/L		100
84) Styrene	10.224	104	1121662	47.24	ug/L		98
85) Bromoform	10.376	173	184129	40.83	ug/L		93
86) 2-Chlorobenzotrifluoride	10.456	180	574446	46.76	ug/L		94
87) Isopropylbenzene	10.547	105	1712326	50.66	ug/L		99
88) Cyclohexanone	10.614	55	572076	1273.64	ug/L		97
89) trans-1,4-Dichloro-2-B...	10.864	53	33089	14.37	ug/L		84
91) 1,1,2,2-Tetrachloroethane	10.815	83	296564	44.56	ug/L		96
92) Bromobenzene	10.797	156	435470	46.63	ug/L		95
93) 1,2,3-Trichloropropane	10.840	110	82530	44.60	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7205.D
Acq On : 25 Mar 2015 7:46 pm
Operator : F. NAEGLER
Sample : R1501980-003MS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 26 13:00:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

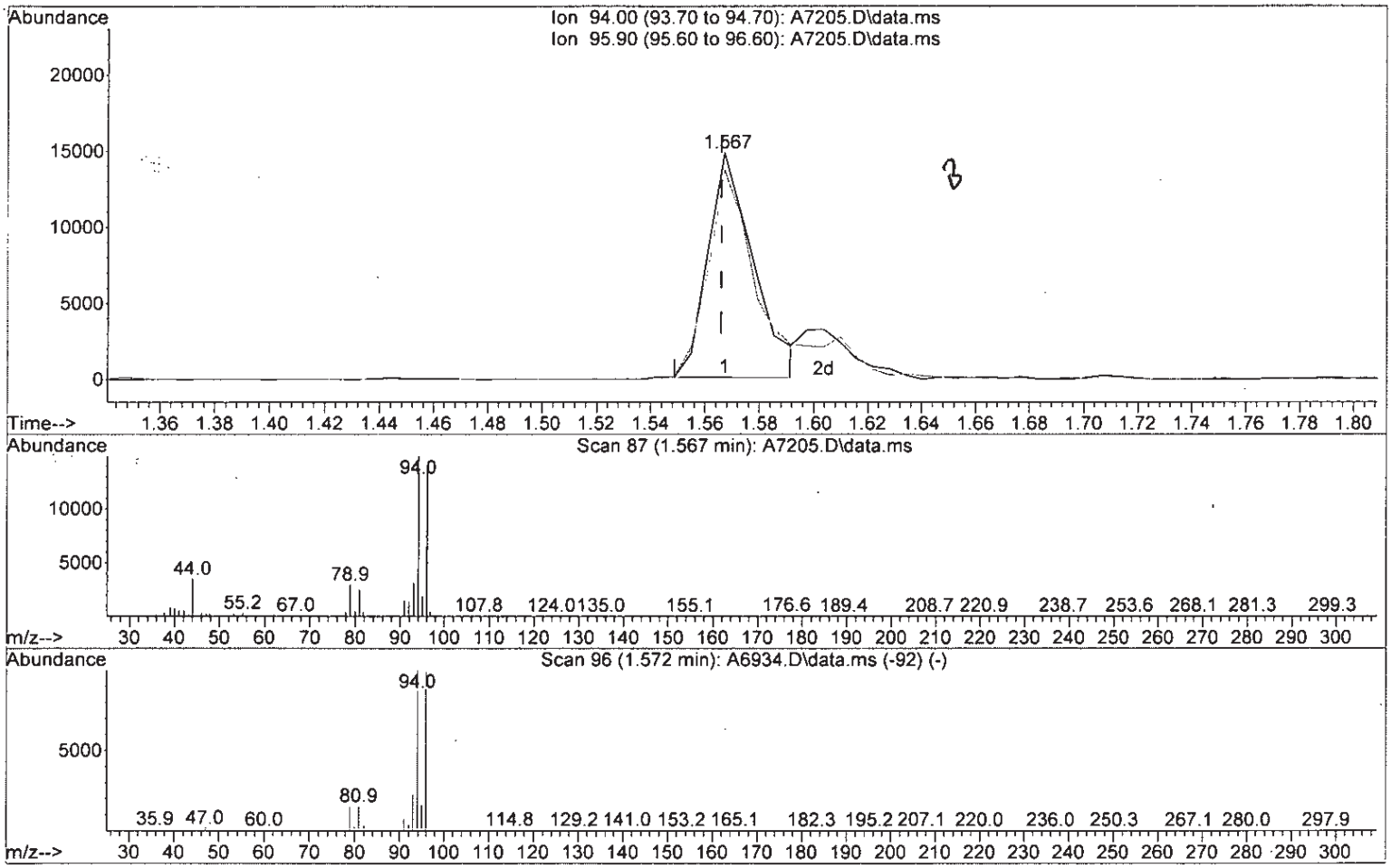
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	10.907	91	2044361	53.81	ug/L	98
95)	2-Chlorotoluene	10.974	91	1216624	50.55	ug/L	100
96)	3-Chlorotoluene	11.029	91	1240261	48.25	ug/L	98
97)	4-Chlorotoluene	11.065	91	1459582	51.05	ug/L	97
98)	1,3,5-Trimethylbenzene	11.065	105	1485463	52.07	ug/L	98
99)	tert-Butylbenzene	11.340	119	1229949	49.88	ug/L	98
100)	1,2,4-Trimethylbenzene	11.376	105	1491060	50.55	ug/L	97
101)	3,4-Dichlorobenzotrifl...	11.443	214	418552	45.43	ug/L	98
102)	sec-Butylbenzene	11.523	105	1744487	51.69	ug/L	99
103)	p-Isopropyltoluene	11.644	119	1556424	52.42	ug/L	99
104)	1,3-Dclbenz	11.602	146	879092	47.78	ug/L	99
105)	1,4-Dclbenz	11.681	146	898962	47.31	ug/L	98
106)	2,4-Dichlorobenzotrifl...	11.736	214	390047	45.79	ug/L	97
107)	2,5-Dichlorobenzotrifl...	11.773	214	439050	46.54	ug/L	99
108)	n-Butylbenzene	11.980	91	1372517	52.18	ug/L	98
109)	1,2-Dclbenz	11.986	146	811227	47.34	ug/L	99
110)	1,2-Dibromo-3-chloropr...	12.614	157	54664	41.22	ug/L	93
111)	Trielution Dichlorotol...	12.730	125	2196226	144.90	ug/L	99
112)	1,3,5-Trichlorobenzene	12.784	180	618739	48.33	ug/L	98
113)	Coelution Dichlorotoluene	13.059	125	1519237	96.50	ug/L	97
114)	1,2,4-Tcbenzene	13.266	180	536843	49.83	ug/L	97
115)	Hexachlorobt	13.406	225	232583	48.55	ug/L	96
116)	Naphthalen	13.461	128	848086	44.73	ug/L	99
117)	1,2,3-Tclbenzene	13.650	180	397425	49.47	ug/L	99
118)	2,4,5-Trichlorotoluene	14.235	159	232816	44.54	ug/L	98
119)	2,3,6-Trichlorotoluene	14.321	159	197251	44.23	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7205.D
Acq On : 25 Mar 2015 7:46 pm
Operator : F. NAEGLER
Sample : R1501980-003MS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 25 20:01:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



TIC: A7205.D\data.ms

(5) Bromomethane (P)

1.567min (+0.001) 6.26 ug/L

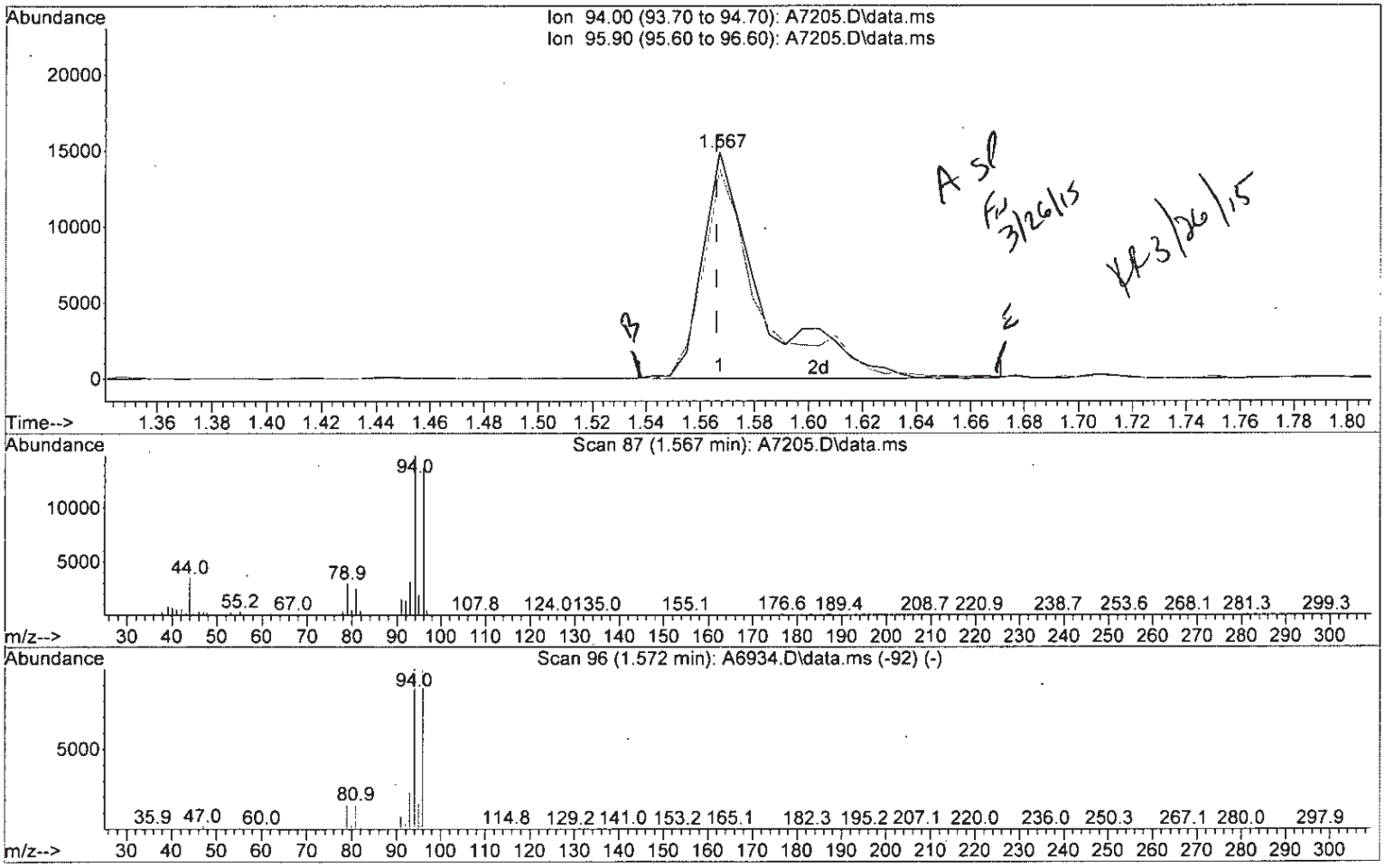
response 17091

Ion	Exp%	Act%
94.00	100	100
95.90	91.60	92.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7205.D
Acq On : 25 Mar 2015 7:46 pm
Operator : F. NAEGLER
Sample : R1501980-003MS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 25 20:01:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



TIC: A7205.D\data.ms

(5) Bromomethane (P)

1.567min (+0.001) 8.04 ug/L m

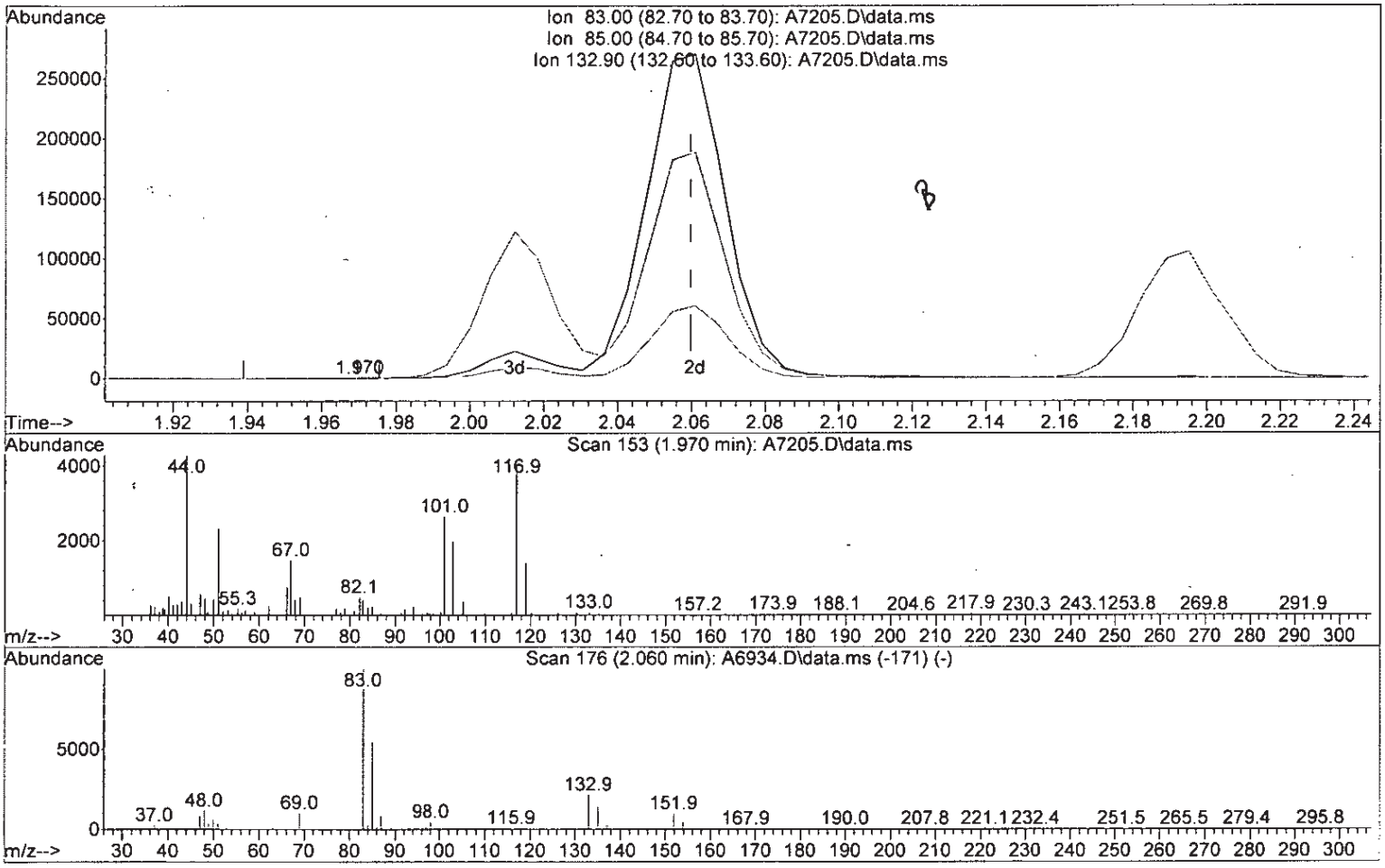
response 22192

Ion	Exp%	Act%
94.00	100	100
95.90	91.60	92.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7205.D
Acq On : 25 Mar 2015 7:46 pm
Operator : F. NAEGLER
Sample : R1501980-003MS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 25 20:01:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



TIC: A7205.D\data.ms

(11) Freon 123

1.970min (-0.090) 0.05 ug/L

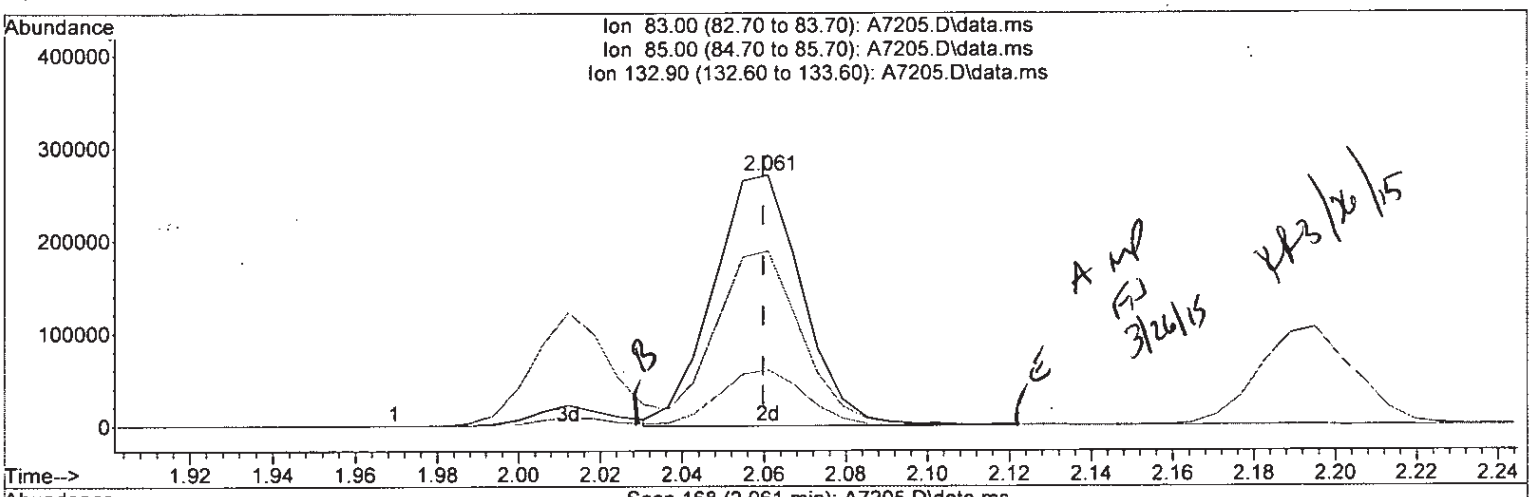
response 534

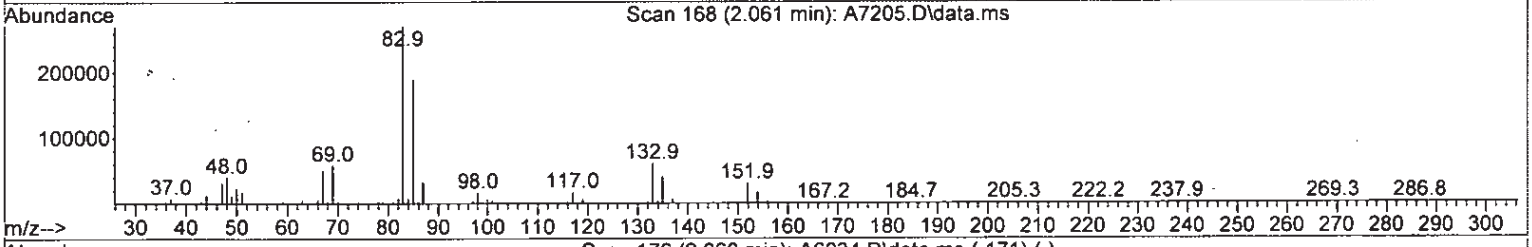
Ion	Exp%	Act%
83.00	100	100
85.00	47.30	55.47
132.90	19.90	18.41
0.00	0.00	0.00

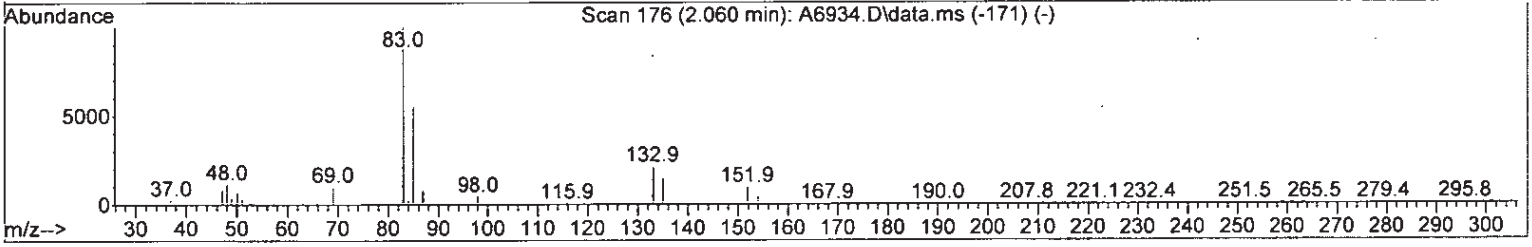
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7205.D
Acq On : 25 Mar 2015 7:46 pm
Operator : F. NAEGLER
Sample : R1501980-003MS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 25 20:01:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration







TIC: A7205.D\data.ms

(11) Freon 123

2.061min (+0.001) 41.53 ug/L m

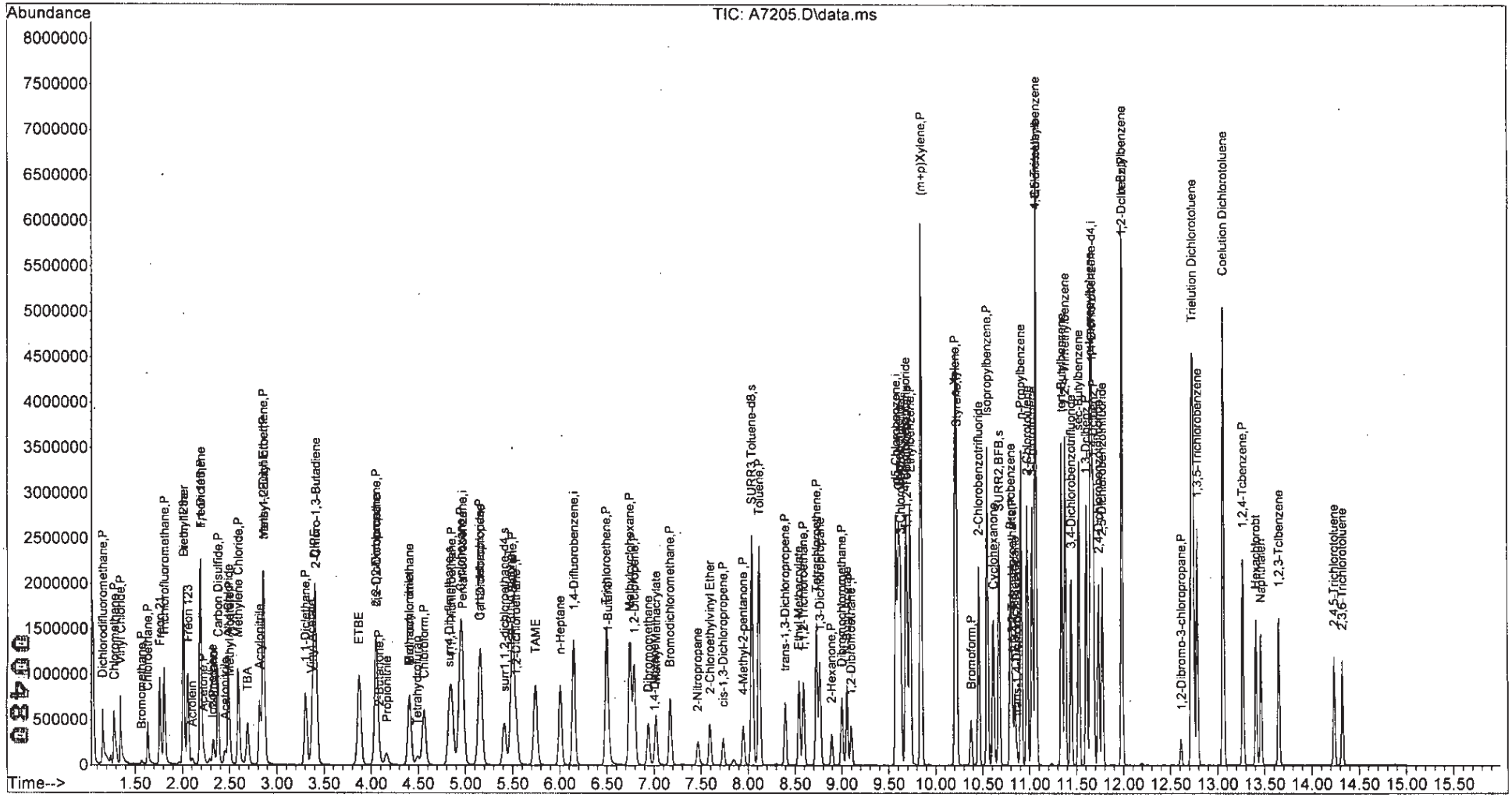
response 407851

Ion	Exp%	Act%
83.00	100	100
85.00	47.30	69.75#
132.90	19.90	22.39
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7205.D
Acq On : 25 Mar 2015 7:46 pm
Operator : F. NAEGLER
Sample : R1501980-003MS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 26 13:00:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1501980
Project:	Binghamton/5101.0003	**Date Collected:**	3/18/15 1355
Sample Matrix:	Water	**Date Received:**	3/20/15
		Date Analyzed:	3/25/15 20:15
Sample Name:	MW-8	**Units:**	µg/L
Lab Code:	RQ1502930-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	437635
Data File Name:	I:\ACQUDATA\msvoa10\data\032515\A7206.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**53.3**		5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**62.4**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**45.7**		5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	**50.3**		5.0	0.30	
79-01-6	Trichloroethene (TCE)	**55.5**		5.0	0.22	
75-01-4	Vinyl Chloride	**52.9**		5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**46.8**		5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	**46.4**		5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	3/25/15 20:15	
Dibromofluoromethane	103	89-119	3/25/15 20:15	
Toluene-d8	104	87-121	3/25/15 20:15	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7206.D
Acq On : 25 Mar 2015 8:15 pm
Operator : F. NAEGLER
Sample : R1501980-003DMS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 26 13:03:53 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

FJ 3/26/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.969	168	850113	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.146	114	1227438	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.578	117	1173922	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	689190	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	4.835	113	377263	51.42	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.84%				
46) surr1,1,2-dichloroetha...	5.408	65	439102	57.49	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 114.98%				
64) SURR3,Toluene-d8	8.041	98	1468055	52.11	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.22%				
69) SURR2,BFB	10.675	95	623686	50.47	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.94%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.159	85	482052	59.73	ug/L		99
3) Chloromethane	1.281	50	600852	59.45	ug/L		99
4) Vinyl Chloride	1.348	62	497960	52.89	ug/L		94
5) Bromomethane	1.567	94	16069	5.73	ug/L		94
6) Chloroethane	1.634	64	267754	49.73	ug/L		96
7) Freon 21	1.762	67	800215	54.51	ug/L		99
8) Trichlorofluoromethane	1.811	101	560180	48.13	ug/L		98
9) Diethyl Ether	2.012	59	301942	49.53	ug/L	#	83
10) Freon 123a	2.012	67	493493	53.85	ug/L		92
11) Freon 123	2.055	83	476209	46.99	ug/L		80
12) Acrolein	2.104	56	35160	39.59	ug/L		94
13) 1,1-Diclethene	2.195	96	297138	45.68	ug/L	#	80
14) Freon 113	2.195	101	404341	56.54	ug/L		88
15) Acetone	2.219	43	164534	82.07	ug/L		99
16) 2-Propanol	2.329	45	381400	1038.51	ug/L		95
17) Iodomethane	2.317	142	9983	5.06	ug/L		85
18) Carbon Disulfide	2.378	76	1060474	44.47	ug/L		100
19) Acetonitrile	2.451	40	86008	308.66	ug/L		91
20) Allyl Chloride	2.488	76	117456	30.48	ug/L	#	27
21) Methyl Acetate	2.500	43	250512	55.88	ug/L		90
22) Methylene Chloride	2.591	84	338903	46.90	ug/L	#	67
23) TBA	2.689	59	514713	927.29	ug/L		82
24) Acrylonitrile	2.817	53	537405	261.10	ug/L		99
25) Methyl-t-Butyl Ether	2.860	73	902922	47.13	ug/L		88
26) trans-1,2-Dichloroethene	2.860	96	343007	46.37	ug/L	#	81
27) 1,1-Diclethane	3.305	63	859338	62.37	ug/L		97
28) Vinyl Acetate	3.372	86	48011	36.70	ug/L	#	94
29) DIPE	3.402	45	1399928	46.84	ug/L	#	77
30) 2-Chloro-1,3-Butadiene	3.414	53	576398	36.06	ug/L		86
31) ETBE	3.872	59	1020384	40.36	ug/L		95
32) 2,2-Dichloropropane	4.048	77	473248	43.89	ug/L		99
33) cis-1,2-Dichloroethene	4.048	96	385232	46.76	ug/L	#	85
34) 2-Butanone	4.085	43	151627	55.16	ug/L		88
35) Propionitrile	4.158	54	191364	256.49	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7206.D
Acq On : 25 Mar 2015 8:15 pm
Operator : F. NAEGLER
Sample : R1501980-003DMS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 26 13:03:53 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	4.408	130	221231	47.91	ug/L	#	68
37) Methacrylonitrile	4.408	67	95238	43.37	ug/L	#	57
38) Tetrahydrofuran	4.487	42	97781	54.12	ug/L		74
39) Chloroform	4.560	83	633350	48.69	ug/L		93
40) 1,1,1-Trichloroethane	4.853	97	635576	53.25	ug/L		94
42) Cyclohexane	4.951	41	583502	62.16	ug/L		94
44) Carbontetrachloride	5.152	121	164930	49.38	ug/L		87
45) 1,1-Dichloropropene	5.158	75	487922	49.30	ug/L		99
47) Benzene	5.499	78	1486364	49.73	ug/L		86
48) 1,2-Dichloroethane	5.536	62	525922	52.69	ug/L		94
49) Iso-Butyl Alcohol	5.481	43	279348	1034.60	ug/L		98
50) TAME	5.743	73	739660	38.49	ug/L		87
51) n-Heptane	6.005	43	562418	54.50	ug/L		83
52) 1-Butanol	6.511	56	302420	1962.28	ug/L		89
53) Trichloroethene	6.493	130	449077	55.54	ug/L		98
54) Methylcyclohexane	6.749	55	666268	59.64	ug/L	#	80
55) 1,2-Diclpropane	6.792	63	450025	56.44	ug/L		98
56) Dibromomethane	6.938	93	182594	45.51	ug/L		96
57) 1,4-Dioxane	7.005	88	42587	823.74	ug/L	#	58
58) Methyl Methacrylate	7.023	69	173670m	44.74	ug/L		
59) Bromodichloromethane	7.170	83	477967	47.87	ug/L		99
60) 2-Nitropropane	7.462	41	170270	102.15	ug/L		94
61) 2-Chloroethylvinyl Ether	7.590	63	177085	46.59	ug/L		90
62) cis-1,3-Dichloropropene	7.737	75	93867	7.88	ug/L		97
63) 4-Methyl-2-pentanone	7.950	43	315863	51.76	ug/L		91
65) Toluene	8.121	91	1604953	50.52	ug/L		98
66) trans-1,3-Dichloropropene	8.395	75	270935	26.19	ug/L		98
67) Ethyl Methacrylate	8.541	69	360997	44.53	ug/L	#	59
68) 1,1,2-Trichloroethane	8.590	97	255078	43.12	ug/L		94
71) Tetrachloroethene	8.730	164	327519	50.30	ug/L		98
72) 2-Hexanone	8.889	43	223302	53.02	ug/L		92
73) 1,3-Dichloropropane	8.767	76	479117	51.90	ug/L	#	79
74) Dibromochloromethane	8.999	129	333041	45.45	ug/L		98
75) N-Butyl Acetate	9.053	43	652594	61.96	ug/L		95
76) 1,2-Dibromoethane	9.096	107	262440	47.04	ug/L		99
77) 3-Chlorobenzotrifluoride	9.627	180	586979	46.76	ug/L		96
78) Chlorobenzene	9.608	112	1059968	49.29	ug/L		99
79) 4-Chlorobenzotrifluoride	9.681	180	524524	45.94	ug/L		98
80) 1,1,1,2-Tetrachloroethane	9.694	131	394557	48.92	ug/L		98
81) Ethylbenzene	9.730	106	529972	46.29	ug/L		100
82) (m+p)Xylene	9.846	106	1435459	103.77	ug/L		88
83) o-Xylene	10.206	106	703798	50.83	ug/L		99
84) Styrene	10.224	104	1189216	49.92	ug/L		97
85) Bromoform	10.376	173	203387	44.96	ug/L		99
86) 2-Chlorobenzotrifluoride	10.456	180	573727	46.56	ug/L		94
87) Isopropylbenzene	10.547	105	1826295	53.86	ug/L		99
88) Cyclohexanone	10.608	55	666128	1478.29	ug/L		94
89) trans-1,4-Dichloro-2-B...	10.864	53	26851	11.62	ug/L		88
91) 1,1,2,2-Tetrachloroethane	10.809	83	321510	47.94	ug/L		99
92) Bromobenzene	10.797	156	467488	49.68	ug/L		99
93) 1,2,3-Trichloropropane	10.840	110	91563	49.12	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7206.D
Acq On : 25 Mar 2015 8:15 pm
Operator : F. NAEGLER
Sample : R1501980-003DMS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 26 13:03:53 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration

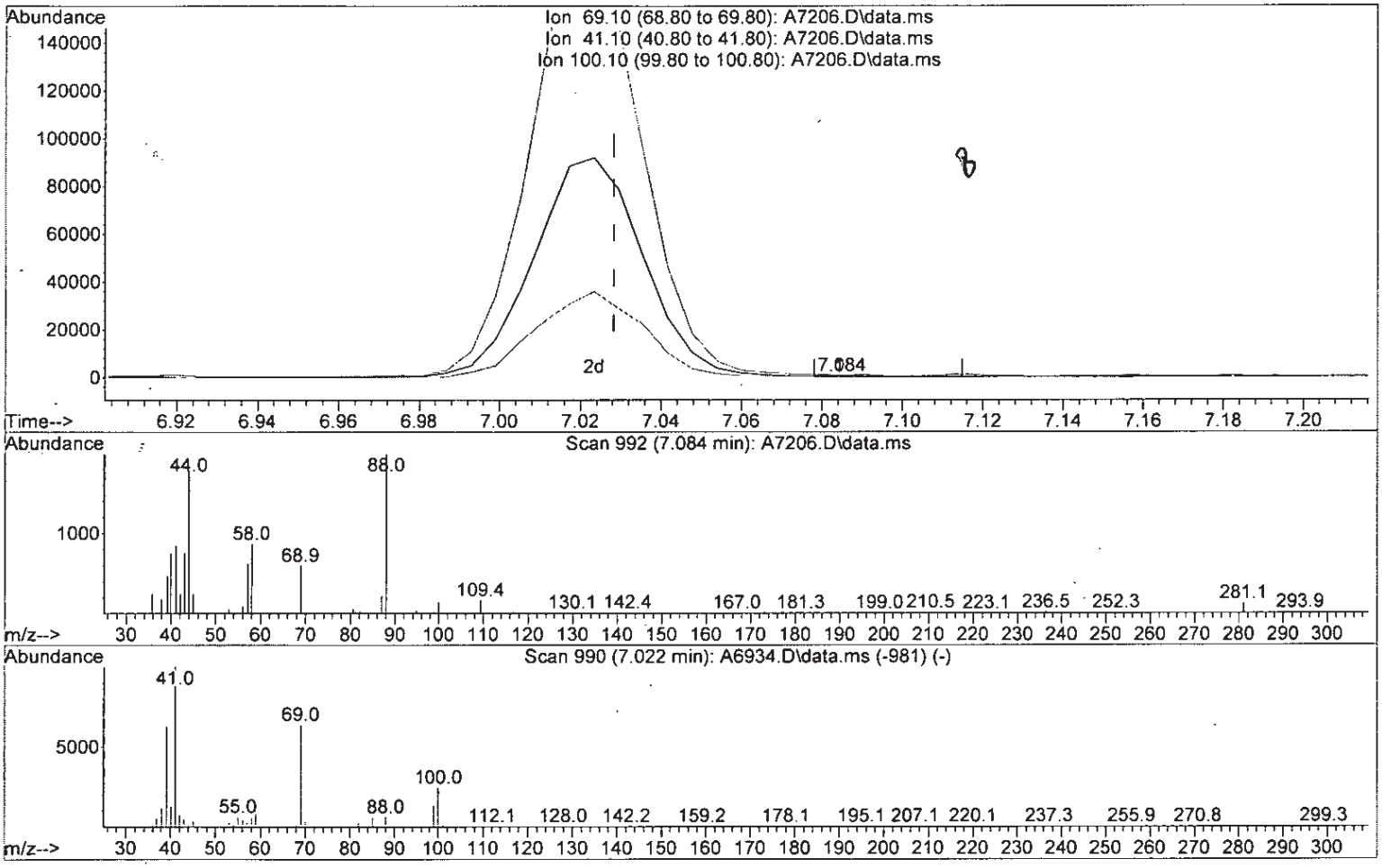
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	10.907	91	2147894	56.11	ug/L	98
95)	2-Chlorotoluene	10.974	91	1297681	53.51	ug/L	100
96)	3-Chlorotoluene	11.029	91	1253282	48.39	ug/L	99
97)	4-Chlorotoluene	11.065	91	1555331	53.99	ug/L	98
98)	1,3,5-Trimethylbenzene	11.065	105	1570866	54.65	ug/L	99
99)	tert-Butylbenzene	11.340	119	1323470	53.27	ug/L	98
100)	1,2,4-Trimethylbenzene	11.376	105	1589308	53.48	ug/L	98
101)	3,4-Dichlorobenzotrifl...	11.443	214	434181	46.78	ug/L	99
102)	sec-Butylbenzene	11.523	105	1859186	54.68	ug/L	99
103)	p-Isopropyltoluene	11.644	119	1644628	54.97	ug/L	99
104)	1,3-Dclbenz	11.602	146	944694	50.96	ug/L	99
105)	1,4-Dclbenz	11.681	146	951532	49.70	ug/L	97
106)	2,4-Dichlorobenzotrifl...	11.736	214	391413	45.61	ug/L	98
107)	2,5-Dichlorobenzotrifl...	11.772	214	442950	46.60	ug/L	99
108)	n-Butylbenzene	11.980	91	1476910	55.72	ug/L	98
109)	1,2-Dclbenz	11.986	146	872558	50.54	ug/L	98
110)	1,2-Dibromo-3-chloropr...	12.614	157	60488	45.27	ug/L	97
111)	Trielution Dichlorotol...	12.730	125	2192558	143.58	ug/L	97
112)	1,3,5-Trichlorobenzene	12.784	180	619015	47.99	ug/L	99
113)	Coelution Dichlorotoluene	13.059	125	1521213	95.90	ug/L	97
114)	1,2,4-Tcbenzene	13.266	180	583174	53.72	ug/L	97
115)	Hexachlorobt	13.406	225	246505	51.07	ug/L	93
116)	Naphthalen	13.461	128	928436	48.60	ug/L	99
117)	1,2,3-Tclbenzene	13.650	180	422957	52.26	ug/L	95
118)	2,4,5-Trichlorotoluene	14.235	159	243564	46.24	ug/L	99
119)	2,3,6-Trichlorotoluene	14.321	159	207702	46.22	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7206.D
Acq On : 25 Mar 2015 8:15 pm
Operator : F. NAEGLER
Sample : R1501980-003DMS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 25 20:31:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



TIC: A7206.D\data.ms

(58) Methyl Methacrylate

7.084min (+0.056) 0.11 ug/L

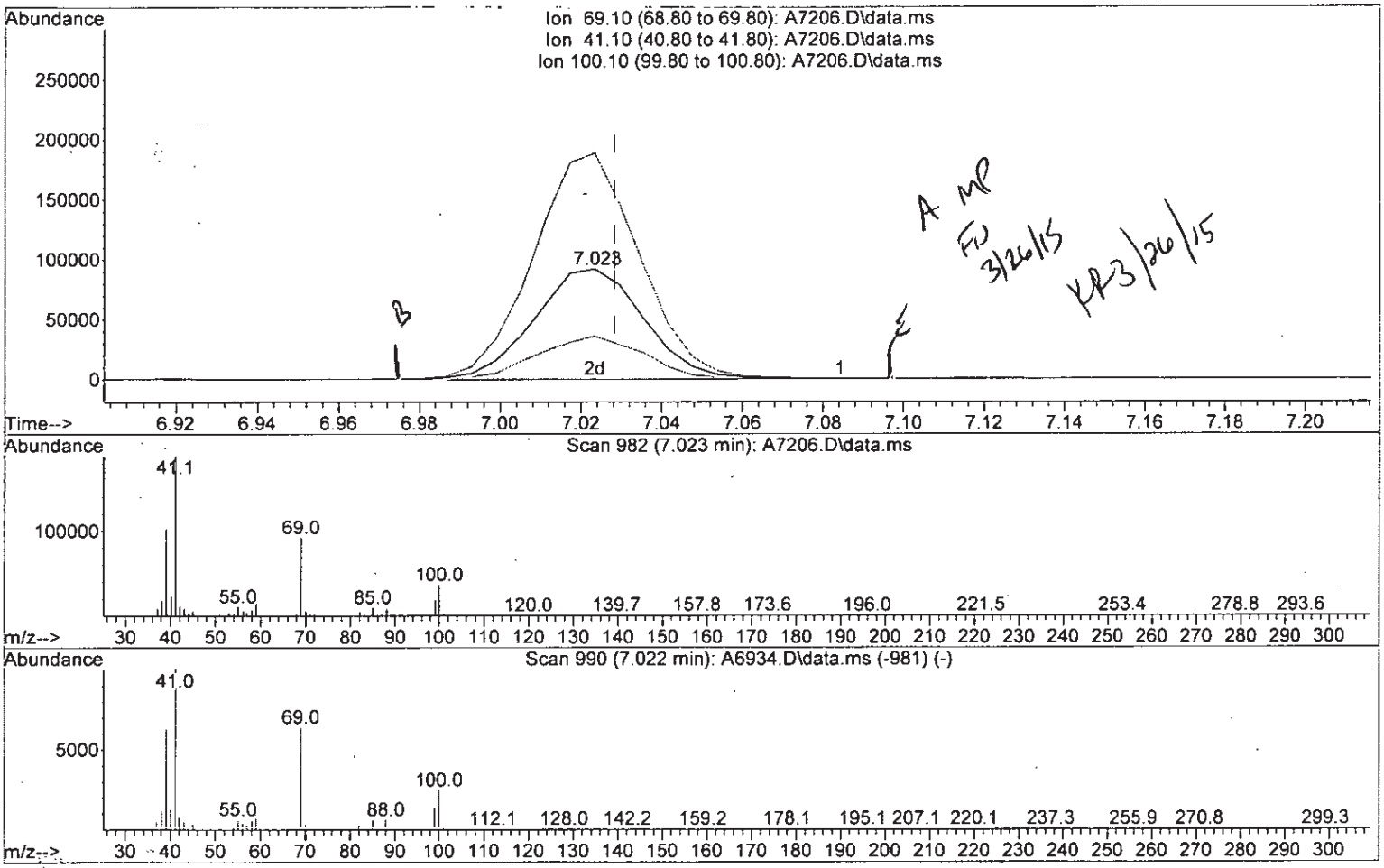
response 409

Ion	Exp%	Act%
69.10	100	100
41.10	141.70	141.78
100.10	37.10	24.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7206.D
Acq On : 25 Mar 2015 8:15 pm
Operator : F. NAEGLER
Sample : R1501980-003DMS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 25 20:31:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



TIC: A7206.D\data.ms

(58) Methyl Methacrylate

7.023min (-0.005) 44.74 ug/L m

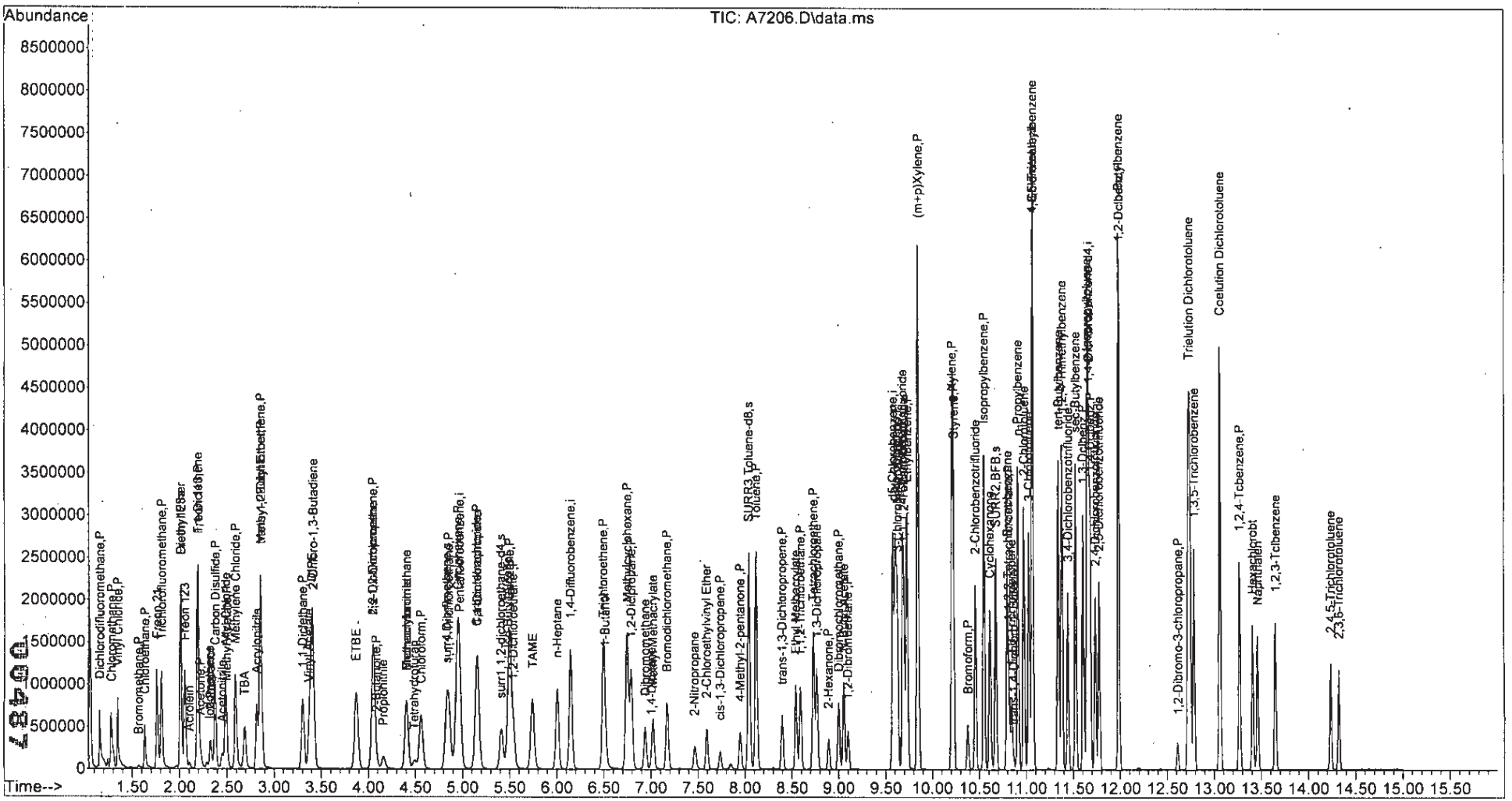
response 173670

Ion	Exp%	Act%
69.10	100	100
41.10	141.70	205.21#
100.10	37.10	39.03
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\032515\
Data File : A7206.D
Acq On : 25 Mar 2015 8:15 pm
Operator : F. NAEGLER
Sample : R1501980-003DMS|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 26 13:03:53 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W031615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Mar 17 12:56:34 2015
Response via : Initial Calibration



Analysis: 8260C | Analyst: F. Wagler | Tune Method: T031615.m

Date: 3/16/15 | Data Path: j:\acqudata\msvoa w\031615 | Run Method: W031615.m

Instr. MS #10 | LIMS Run#: —

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	TUNE								A0937	Y	
2	ICAL BLK								38	Y	
3	0.5 ppb Std								39	Y	
4	1.0								40	Y	
5	2.0								41	Y	
6	5.0								42	Y	
7	20								43	Y	
8	50								44	Y	
9	100								45	Y	
10	150								46	Y	
11	200								47	Y	
12	BLK								48	Y	
13	BLK								49	Y	
14	50 ppb ICV								50	Y	
15	BLK								51	Y	
16	BLK								52	Y	

WATER ICAL TABLE

CONC (PPB)	0.5	1.0	2.0	5.0	20	50	100	150	200
1°T/G = 79544	10mL/1mL 5mL/5mL	10mL/5mL	20mL/5mL	50mL/5mL	2mL/5mL	5mL/5mL	10mL/5mL	15mL/5mL	20mL/5mL
1° HSL = 79382	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° Fr = 79550	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° HBO = 78855	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° OCC = 79559	↓	↓	↓	↓	↓	↓	↓	↓	↓
SURR = 79580	—	—	—	1mL/5mL	2mL/5mL	—	5mL/5mL	7.5mL/5mL	10mL/5mL

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

Primary: See WATER ICAL TABLE

Primary: ↓

Primary: ↓

Primary: ↓

Primary: ↓

Fr Secondary 200 : 79552 - 12.5mL

TIC Secondary 50 : 78856 - 5mL

HSL Secondary : 79060 - ↓

HBO Secondary : 79551 - ↓

OCC Secondary : 79571 - ↓

5mL (ICV)

Combined IS/Surr 500 : 79286

Surrogate : —

Internal Std : —

Analysis: 8260C | Analyst: F. Naegler | Tune Method: T031615.M
Date: 3/17/15 | Data Path: j:\acqudata\msvoa 10\ 031715 | Run Method: W031615.M
Instr. MS#10 | LIMS Run# :

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								A6953	Y	
2	BLK								54	Y	
1	TUNE								55	Y	
2	CCV								56	Y	
3	LCS								57	Y	
4	50 PPB ICV		HSL # 79620						58	Y	acrolein only!
5	MBLK								59	(N)	
6	MBLK								60	Y	

FD 3/17/15

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

T/B Primary 500 : 79544 - 5mL/50mL
HSL Primary : 79382 -
Fr Primary : 79550 -
HBo Primary : 78855 -
OCC Primary : 79589 - (CCV)

Fr Secondary 200 : 79552 - 5mL
T/B Secondary 500 : 78856 - 2mL
HSL Secondary : 79060 - 1
HBo Secondary : 79551 -
OCC Secondary : 79571 - (LCS)
50mL

-12.5mL
-5mL
50mL (SPK)

Combined IS/Surr 500 : 79286
Surrogate : —
Internal Std : —

Analysis: 8260 soil
Analyst: Ben w/o reviewer
Tune Method: –
Date: 03/19/15
Data Path: j:\acqudata\msvoa14\DATA\03/9/15
Run Method: S03/9/15.m
Instr. MS #14
LIMS Run# : –

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	Blank	–				–	1	–	79905	–	
2	↓	–				–	2	–	06	–	
1	Tune Check	–				–	1	–	07	YT	
2	Tune Check	–				–	2	–	08	YT	
3	ICAL Blank	–	5mL Extion			–	1	–	09	YT	
4	1ppb		10mL 10 5ppm / 50mL Extion				1		10	Y	
5	2ppb		20mL ↓ / ↓				1		11 #2	Y	Ben 03/19/15 (BB)
6	5ppb		50mL ↓ / ↓				1		12	Y	
7	20ppb		2mL 10(TG/MBO/MSL/ENV) / 50mL DI				1		13	Y	
8	50ppb		5mL ↓ / /				1		14	Y	
9	100ppb		10mL / /				1		15	Y	
10	150ppb		15mL / /				1		16	Y	
11	200ppb		20mL ↓ / ↓				1		17	Y	
12	CBlank	–					1		18	–	
13	ICV 50ppb		5mL 2°(TG/MBO/MSL) + 12	5mL 2°ENV /	50mL DI		1		19	Y	
14	Blank	–					1		20	–	
15	↓	–					2		21	–	

BW 03/19/15

All samples = 5 mL + 5 uL combined IS/Surr. 10 mL purged

Primary TG : 79544 10mL
Primary MBO : 79747
Primary MSL : 79392
Primary ENV : 79550
Primary :

1.0mL MeOH = 105ppm

Secondary TG : 79852
Secondary MBO : 79551
Secondary MSL : 79620
Secondary ENV : 79552
Secondary :

Combined IS/Surr : –
Surrogate 50 : 79363
Internal Std 50 : 79362

Analysis: 8260-MSD Analyst: Ben Wojtasiewicz Tune Method: ~

Date: 03/23/15 Data Path: j:\acqudata\msvoa14\DATA\032315 Run Method: W032015.M

Instr. MS#14 LIMS Run#: * 430 457305

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	Blank	~				~	~	~	B9952	~	
2	↓	~				~	~	~	53	~	
3	Tune	~				~	1	~	54	YT	
4	CCV	~				~	1	~	55	(Y)	compds ↓, opt
5	CCV	~				~	2	~	56	YC	
6	LCS/ICV 20ppb	~				~	2	~	57	YL	-report SM only for ICV
7	MSblank	~				~	1	~	58	(Y)	opt for cb
8	MSblank	~				~	2	~	59	YB	
9	R1501857-001	1		[redacted]	6656	3	1	<2	60	Y	
10	-002	1					1	<2	61	Y	
11	-003	1					1	<2	62	Y	
12	-004	1					1	<2	63	Y	
13	R1501828-003	1		[redacted]	6673	2	1	<2	64	Y	
14	-001	1					1	<2	65	Y	
15	-002	1					1	<2	66	Y	
16	R1501863-001	1		[redacted]	9866	1	1	<2	67	Y	
17	R1501980-001	1		[redacted]	6646/7474	4	1	<2	68	Y	
18	-005	1					1	<2	69	Y	
19	-009	1					1	<2	70	Y	
20	-002	1					1	8	71	Y	
21	-003	1					1	8	72	Y	
22	-004	1					1	<2	73	Y	
23	-006	1					1	~~5.8~~ **	74	Y	
24	-007	1					1	8	75	Y	
25	-008	1					1	7	76	Y	
26	R1501961-001	2	25mL/50mL	[redacted]	9866	1	1	<2	77	Y	
27	R1501860-001	2.5	20mL/50mL				1	<2	78	Y	
28	-002	1					1	<2	79	Y	
29	R1501980-003 MS	1		[redacted]	6646/7474	4	2	~~8~~ **	80	(Y)	not reported, opt with DMS
30	-003 DMS	1					3	~~8~~ **	81	(N)	out of Tune, opt
31	Blank	~				~	1	~	82	~	
32	↓	~				~	2	~	83	~	

BW 03/25/15 EO

All samples = 5 mL + 5 uL ~~combined~~ IS/Surr. 5 mL purged ** BW 03/25/15 EO

BW 03/25/15

S20 Primary TG : 79785 5mL
Primary MSO : 79747
Primary MSL : 79582
Primary OCC : 79539
Primary Frz : 79550
50mL = CCV

S20 Secondary TG : 79784 2mL
Secondary MSO : 79581
Secondary MSL : 79620
Secondary OCC : 79571
200 Secondary Frz : 79582 6mL
50mL = LCS/ICV

425 10.6

Combined IS/Surr : ~
425mL Surrogate 50 : 79363
= MS, Internal Std 50 : 79362
DMS

Analysis: 8260C | Analyst: F.Nuegler | Tune Method: T031615.M

Date: 3/25/15 | Data Path: j:\acqudata\msvoa\0325\15 | Run Method: W031615.M

Instr. MS#10 | LIMS Run#: L1-437634/437635

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								A7184	Y	
1	TUNE								85	Y	
2	CCV								86	Y	
3	LCS								87	Y	
4	MBLK								88	(N)	LL
5	MBLK								89	Y	RQ1502923-01 / 930-01
6	R1502043-001	1.0		[redacted]	6691	1	1	<2	90	Y	
7	-002	1.0					1	<2	91	Y	
8	-003	1.0					1	<2	92	Y	
9	-004	1.0					1	<2	93	Y	
10	R1501944-001	1.0		[redacted]	6656	3	1	<2	94	Y	
11	-002	1.0					1	<2	95	Y	
12	-003	1.0					1	<2	96	Y	
13	-004	1.0					1	<2	97	Y	
14	-005	1.0					1	<2	98	Y	
15	-006	1.0					1	<2	99	Y	
16	-007	1.0					1	<2	A7200	Y	
17	-008	1.0					1	<2	01	Y	
18	-009	1.0					1	<2	02	Y	
19	R1501945-001	2.5	20/50mL	[redacted]	6656	3	2	<2	03	Y	DL
20	R1501890-001	20.0	2.5/50mL	[redacted]	6694	2	3	<2	04	Y	
21	R1501980-003MS	1.0		[redacted]	7979	4	4	(7)	05	Y	RQ1502930-05
22	-003MSD	1.0					5	(7)	06	Y	-06
23	R1501944-005MS	1.0		[redacted]	6656	3	2	<2	07	Y	RQ1502923-05
24	-005MSD	1.0					3	<2	08	Y	-06
25	BLK								09	Y	
26	BLK								10	Y	
			FW 3/25/15								

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

T/G Primary 500 : 79098 - 5mL | 50mL

HSL Primary : 79382 -

Fr Primary : 79550 -

HBO Primary : 79747 -

OCC Primary : 79559 - (CCV)

Fr Secondary 200 : 79552 - 5mL

T/G Secondary 500 : 79784 - 2mL

HSL Secondary : 79620 -

HBO Secondary : 79551 -

OCC Secondary : 79571 - (LCS)

-12.5mL -5mL 50mL (SPK)

Combined IS/Surr 500 : 79764

Surrogate : —

Internal Std : —

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Rd, Building 300, Suite 360
Rochester, NY 14623
T: 585-288-5380
F: 585-288-8475
www.alsglobal.com

October 24, 2015

Analytical Report for Service Request No: R1508047

Ms. Tammy Yuan
Verina Consulting Group, LLC
1011 US Highway 22, Suite 302
Bridgewater, NJ 08807

RECEIVED
OCT 29 2015

Laboratory Results for: Binghamton/5101.0003

Dear Ms. Yuan:

Enclosed are the results of the sample(s) submitted to our laboratory on September 25, 2015. For your reference, these analyses have been assigned our service request number **R1508047**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ALS Environmental

Client:	Verina
Service Request No.:	R1508047
Project:	Dover Binghamton
Date Received:	09/25/15
Sample Matrix:	Water
Project/Case No.:	

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

Water samples were received for analysis at ALS Environmental on 09/25/15. The samples were received in good condition and consistent with the accompanying chain of custody form. All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Volatile Organics

Water samples were analyzed by method 5030C/8260C from SW-846.

All initial and continuing calibration criteria were met for all analytes.

All Tuning criteria were within QC limits.

All Laboratory Control Sample (LCS) recoveries were within limits.

Site specific QC was not requested on these samples.

All Internal Standard Areas were within limits.

All surrogate standard recoveries were within limits.

The Method blanks associated with these samples were free of contamination.

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 5101.0003	Batch Complete: Yes	Date Revised:
Submission: R1508047	Diskette Requested: No	Date Due: 10/16/15
Client: Verina Consulting Group, LLC	Date: 9/28/15	Protocol: SW846
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: Binghamton	Chain of Custody: Present/Absent:	SDG #: MW-17

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1508047-001	TRIP BLANK	Water	8260C	9/23/15	9/25/15			
R1508047-002	MW-17	Water	8260C	9/23/15	9/25/15			
R1508047-003	MW-10	Water	8260C	9/23/15	9/25/15			
R1508047-004	MW-11	Water	8260C	9/23/15	9/25/15			
R1508047-005	MW-16	Water	8260C	9/23/15	9/25/15			
R1508047-006	MW-8	Water	8260C	9/23/15	9/25/15			
R1508047-007	DMW-3	Water	8260C	9/23/15	9/25/15			
R1508047-008	MW-13	Water	8260C	9/23/15	9/25/15			
R1508047-009	TMP-4	Water	8260C	9/23/15	9/25/15			
R1508047-010	MW-9	Water	8260C	9/23/15	9/25/15			
R1508047-011	FB-092315	Water	8260C	9/23/15	9/25/15			
R1508047-012	DUP092315	Water	8260C	9/23/15	9/25/15			

E009

Folder Comments:

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

28964

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name: Dover-Binghamton	Project Number: 510.0003
Project Manager: Tammy Yuan	Report CC: Sarah Tufaro
Company/Address: Verina Consulting Group, LLC 1011 US Highway 22, Suite 302 Bridgewater, NJ 08807	
Phone #: 908-864-4400	Email: tyuan@vcg-llc.com
Sampler's Signature: [signature]	Sampler's Printed Name: ~~[signature]~~ Sarah Tufaro

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP	GC/MS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SSPL VOCs							
Trip Blank		9/01/15	13:15	TB	3								X							
MW-17	X	9/03/15	10:19	GW									X							
MW-10	X		10:32										X							
MW-11	X		11:48										X							
MW-16	X		12:09										X							
MW-8	X		13:31										X							
DMW-3			13:35										X							
MW-13			14:52										X							
TMP-4			14:55										X							
MW-9	X		15:58	GW									X							
FB-090315		9/03/15	15:05	FB	3								X							

Preservative Key: 0. NONE; 1. HCL; 2. HNO_3; 3. H_2SO_4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. $NaHSO_4$; 8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS

Metals SSPL VOCs = PCE, TCE, 1,1-DCA, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA and VC

DUP 09235 X

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED: NewYork

TURNAROUND REQUIREMENTS

_____ RUSH (SURCHARGES APPLY)

_____ 1 day _____ 2 day _____ 3 day

_____ 4 day _____ 5 day

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS

_____ I. Results Only

X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

_____ III. Results + QC and Calibration Summaries

_____ IV. Data Validation Report with Raw Data

Edata X Yes _____ No

INVOICE INFORMATION

PO # 510.0003

BILL TO: Verina

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: [signature]	Signature: [signature]	Signature:	Signature:	Signature:	
Printed Name: Sarah Tufaro	Printed Name: Matt Stone	Printed Name:	Printed Name:	Printed Name:	
Firm: Verina	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 9/04/15 0800	Date/Time: 9/25/15 0640	Date/Time:	Date/Time:	Date/Time:	

R1508047 5
Verina Consulting Group, LLC
Binghamton

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

30857

ALS Environmental

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Project Name: Dover-Binghamton	Project Number: 5101.0003
Project Manager: Tammy Ivan	Report CC: Sarah Tufaro
Company/Address: Verina Consulting Group, LLC 1011 US Highway 22, Suite 302 Bridgewater, NJ 08807	
Phone #: 908-864-4400	Email: Tivan@VCGllc.com
Sampler's Signature:	Sampler's Printed Name: Sarah Tufaro

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1,7

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP	GC/MS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SSPL VOCs							REMARKS/ ALTERNATE DESCRIPTION
DUP-090315	X	9/03/15	—	GW	3								X							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals SSPL 10 CS= PCE, TCE, 1,1-DCA, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA and VC

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED NY

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day ____ 2 day ____ 3 day
_____ 4 day ____ 5 day
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata X Yes ____ No

INVOICE INFORMATION
PO # 5101.0003
BILL TO: Verina

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Sarah Tufaro	Printed Name: Matt Store	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: Verina	Firm: ALS	Firm:	Firm:	Firm:	Firm:
Date/Time: 9/04/15 0500	Date/Time: 9/25/15 0A9	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Lab Copy; Yellow - Return to Originator

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Cooler Receipt and Preservation Check Form

Project/Client Versar Folder Number 15-8047

Cooler received on 9/25/15 by: MDS COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y N	5a	**Perchlorate** samples have required headspace?	Y N NA
2	**Custody papers** properly completed (ink, signed)?	Y N	5b	Did VOA vials, Alk, or Sulfide have sig* **bubbles**?	Y N NA
3	Did all bottles arrive in good **condition** (unbroken)?	Y N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: Wet Ice Dry Ice Gel packs present?	Y N	7	Soil VOA received as: Bulk Encore 5035set	NA

8. Temperature Readings Date: 9/25/15 Time: 0958 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	3.2						
Correction Factor (°C)	-0.2						
Corrected Temp (°C)	3.0						
Within 0-6°C?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Room by MDS on 9/25/15 at 0959
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: JMV 9/28/15

Cooler Breakdown: Date: 9/25/15 Time: 1700 by: MDS

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	4114070	8/16				

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 5-120-002

Other Comments:

~~Acetate~~ ~~Zn Acetate~~ from COC.

PC Secondary Review: JMV 9/28/15 *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1315
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 15:28
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1508047-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3328.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	9/26/15 15:28	
Dibromofluoromethane	93	89-119	9/26/15 15:28	
Toluene-d8	97	87-121	9/26/15 15:28	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1019
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 16:16
Sample Name:	MW-17	**Units:**	µg/L
Lab Code:	R1508047-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3330.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**2.7**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**21**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	9/26/15 16:16	
Dibromofluoromethane	96	89-119	9/26/15 16:16	
Toluene-d8	102	87-121	9/26/15 16:16	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1032
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 16:40
Sample Name:	MW-10	**Units:**	µg/L
Lab Code:	R1508047-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3331.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**3.8**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**0.81**	J	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	**1.5**	J	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**18**		5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**3.2**	J	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	9/26/15 16:40	
Dibromofluoromethane	92	89-119	9/26/15 16:40	
Toluene-d8	98	87-121	9/26/15 16:40	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1145
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 19:54
Sample Name:	MW-11	**Units:**	µg/L
Lab Code:	R1508047-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3339.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**0.92**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	9/26/15 19:54	
Dibromofluoromethane	93	89-119	9/26/15 19:54	
Toluene-d8	97	87-121	9/26/15 19:54	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1209
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 17:04
Sample Name:	MW-16	**Units:**	µg/L
Lab Code:	R1508047-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3332.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**7.3**		5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**53**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	9/26/15 17:04	
Dibromofluoromethane	95	89-119	9/26/15 17:04	
Toluene-d8	99	87-121	9/26/15 17:04	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1331
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/30/15 16:18
Sample Name:	MW-8	**Units:**	µg/L
Lab Code:	R1508047-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464754
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\093015\F2604.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**2.3**	**J**	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**2.4**	**J**	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85-122	9/30/15 16:18	
Dibromofluoromethane	93	89-119	9/30/15 16:18	
Toluene-d8	98	87-121	9/30/15 16:18	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1335
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 17:29
Sample Name:	DMW-3	**Units:**	µg/L
Lab Code:	R1508047-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3333.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	9/26/15 17:29	
Dibromofluoromethane	92	89-119	9/26/15 17:29	
Toluene-d8	99	87-121	9/26/15 17:29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1452
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 17:53
Sample Name:	MW-13	**Units:**	µg/L
Lab Code:	R1508047-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3334.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	9/26/15 17:53	
Dibromofluoromethane	94	89-119	9/26/15 17:53	
Toluene-d8	98	87-121	9/26/15 17:53	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1455
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 18:17
Sample Name:	TMP-4	**Units:**	µg/L
Lab Code:	R1508047-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3335.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**0.31**	J	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85-122	9/26/15 18:17	
Dibromofluoromethane	93	89-119	9/26/15 18:17	
Toluene-d8	97	87-121	9/26/15 18:17	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1558
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 18:41
Sample Name:	MW-9	**Units:**	µg/L
Lab Code:	R1508047-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3336.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**0.44**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**4.0**	J	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	9/26/15 18:41	
Dibromofluoromethane	94	89-119	9/26/15 18:41	
Toluene-d8	99	87-121	9/26/15 18:41	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1505
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 15:52
Sample Name:	FB-092315	**Units:**	µg/L
Lab Code:	R1508047-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3329.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85-122	9/26/15 15:52	
Dibromofluoromethane	93	89-119	9/26/15 15:52	
Toluene-d8	95	87-121	9/26/15 15:52	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 19:05
Sample Name:	DUP092315	**Units:**	µg/L
Lab Code:	R1508047-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3337.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**3.6**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**0.78**	J	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	**1.3**	J	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**17**		5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**3.1**	J	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	9/26/15 19:05	
Dibromofluoromethane	93	89-119	9/26/15 19:05	
Toluene-d8	97	87-121	9/26/15 19:05	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	9/26/15 11:55
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1511392-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3320.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	9/26/15 11:55	
Dibromofluoromethane	94	89-119	9/26/15 11:55	
Toluene-d8	98	87-121	9/26/15 11:55	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	9/26/15 11:55
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1511392-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3320.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	9/26/15 11:55	
Dibromofluoromethane	94	89-119	9/26/15 11:55	
Toluene-d8	98	87-121	9/26/15 11:55	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	9/30/15 13:35
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1511664-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464754
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\093015\F2598.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	9/30/15 13:35	
Dibromofluoromethane	91	89-119	9/30/15 13:35	
Toluene-d8	98	87-121	9/30/15 13:35	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1508047
Date Analyzed: 9/26/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 464094

Lab Control Sample
RQ1511392-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	17.1	20.0	85	74 - 120
1,1-Dichloroethane (1,1-DCA)	18.3	20.0	92	78 - 117
1,1-Dichloroethene (1,1-DCE)	19.2	20.0	96	74 - 135
Tetrachloroethene (PCE)	16.9	20.0	84	78 - 124
Trichloroethene (TCE)	17.4	20.0	87	78 - 123
Vinyl Chloride	23.2	20.0	116	69 - 133
cis-1,2-Dichloroethene	19.2	20.0	96	80 - 121
trans-1,2-Dichloroethene	19.6	20.0	98	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1508047
Date Analyzed: 9/30/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 464754

Lab Control Sample
RQ1511664-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	16.2	20.0	81	74 - 120
1,1-Dichloroethane (1,1-DCA)	19.5	20.0	98	78 - 117
1,1-Dichloroethene (1,1-DCE)	18.7	20.0	93	74 - 135
Tetrachloroethene (PCE)	16.2	20.0	81	78 - 124
Trichloroethene (TCE)	17.1	20.0	86	78 - 123
Vinyl Chloride	25.6	20.0	128	69 - 133
cis-1,2-Dichloroethene	19.8	20.0	99	80 - 121
trans-1,2-Dichloroethene	19.4	20.0	97	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Rd, Building 300, Suite 360
Rochester, NY 14623
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October 24, 2015

Analytical Report for Service Request No: R1508047

Ms. Tammy Yuan
Verina Consulting Group, LLC
1011 US Highway 22, Suite 302
Bridgewater, NJ 08807

Laboratory Results for: Binghamton/5101.0003

Dear Ms. Yuan:

Enclosed are the results of the sample(s) submitted to our laboratory on September 25, 2015. For your reference, these analyses have been assigned our service request number **R1508047**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ALS Environmental

SDG NARRATIVE

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

Client:	Verina
Service Request No.:	R1508047
Project:	Dover Binghamton
Date Received:	09/25/15
Sample Matrix:	Water
Project/Case No.:	

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

Water samples were received for analysis at ALS Environmental on 09/25/15. The samples were received in good condition and consistent with the accompanying chain of custody form. All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Volatile Organics

Water samples were analyzed by method 5030C/8260C from SW-846.

All initial and continuing calibration criteria were met for all analytes.

All Tuning criteria were within QC limits.

All Laboratory Control Sample (LCS) recoveries were within limits.

Site specific QC was not requested on these samples.

All Internal Standard Areas were within limits.

All surrogate standard recoveries were within limits.

The Method blanks associated with these samples were free of contamination.

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #:	5101.0003	Batch Complete:	Yes	Date Revised:	
Submission:	R1508047	Diskette Requested:	No	Date Due:	10/16/15
Client:	Verina Consulting Group, LLC	Date:	9/28/15	Protocol:	SW846
Client Rep:	JJAEGER	Custody Seal: Present/Absent:		Shipping No.:	
Project:	Binghamton	Chain of Custody: Present/Absent:		SDG #:	MW-17

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1508047-001	TRIP BLANK	Water	8260C	9/23/15	9/25/15			
R1508047-002	MW-17	Water	8260C	9/23/15	9/25/15			
R1508047-003	MW-10	Water	8260C	9/23/15	9/25/15			
R1508047-004	MW-11	Water	8260C	9/23/15	9/25/15			
R1508047-005	MW-16	Water	8260C	9/23/15	9/25/15			
R1508047-006	MW-8	Water	8260C	9/23/15	9/25/15			
R1508047-007	DMW-3	Water	8260C	9/23/15	9/25/15			
R1508047-008	MW-13	Water	8260C	9/23/15	9/25/15			
R1508047-009	TMP-4	Water	8260C	9/23/15	9/25/15			
R1508047-010	MW-9	Water	8260C	9/23/15	9/25/15			
R1508047-011	FB-092315	Water	8260C	9/23/15	9/25/15			
R1508047-012	DUP092315	Water	8260C	9/23/15	9/25/15			

Folder Comments:

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ALS Environmental

CHAINS OF CUSTODY

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

28964

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name: Dover-Binghamton	Project Number: 510.0003
Project Manager: Tammy Yuan	Report CC: Sarah Tufaro
Company/Address: Verina Consulting Group, LLC 1011 US Highway 22, Suite 302 Bridgewater, NJ 08807	
Phone #: 908-864-4400	Email: tyuan@vcg-llc.com
Sampler's Signature: Stufaro	Sampler's Printed Name: ~~Stufaro~~ Sarah Tufaro

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1/

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	SSPL VOCs
Trip Blank		9/01/15	13:15	TB	3	X
MW-17	X	9/03/15	10:19	GW		X
MW-10	X		10:32			X
MW-11	X		11:48			X
MW-16	X		12:09			X
MW-8	X		13:31			X
DMW-3			13:35			X
MW-13			14:52			X
TMP-4			14:55			X
MW-9	X		15:58	GW		X
FB-090315		9/03/15	15:05	FB	3	X

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals SSPL VOCs= PCE, TCE, 1,1-DCA, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA and VC

DUP 092315 X

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED: NEW YORK

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata X Yes ____ No

INVOICE INFORMATION
PO # 510.0003
BILL TO: Verina

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Stufaro	Signature:	Signature:	Signature:	Signature:	
Printed Name: Sarah Tufaro	Printed Name: Matt Stone	Printed Name:	Printed Name:	Printed Name:	
Firm: Verina	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 9/04/15 0800	Date/Time: 9/25/15 0940	Date/Time:	Date/Time:	Date/Time:	

R1508047 5
Verina Consulting Group, LLC
Binghamton

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ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

30857

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name: Dover-Binghamton	Project Number: 5101.0003
Project Manager: Tammy Ivan	Report CC: Sarah Tufaro
Company/Address: Verina Consulting Group, LLC 1011 US Highway 22, Suite 302 Bridgewater, NJ 08807	
Phone #: 908-864-4400	Email: tivan@vcgllc.com
Sampler's Signature:	Sampler's Printed Name: Sarah Tufaro

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1,7

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 624 • CLP	GC/MS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SSPL VOCs
DUP-090315	X	9/03/15	—	GW	3								X

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals SSPL VOCs = PCE, TCE, 1,1DCA, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA and VC

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED NY

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata X Yes ____ No

INVOICE INFORMATION
PO # 5101.0003
BILL TO: Verina

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Sarah Tufaro	Printed Name: Matt Steve	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: Verina	Firm: ALS	Firm:	Firm:	Firm:	Firm:
Date/Time: 9/04/15 0800	Date/Time: 9/25/15 0940	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Lab Copy; Yellow - Return to Originator

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Cooler Receipt and Preservation Check Form

Project/Client Versar Folder Number 15-8047

Cooler received on 9/25/15 by: MDS COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 9/25/15 Time: 0958 ID: IR#3 (IR#5) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	3.2						
Correction Factor (°C)	-0.2						
Corrected Temp (°C)	3.0						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Room by MDS on 9/25/15 at 0959
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: JMS 9/28/15

Cooler Breakdown: Date: 9/25/15 Time: 1200 by: MDS

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	4114076	8/16				

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 5-120-002

Other Comments:

~~Acetate~~ ~~ZnAcetate~~ from COC.

PC Secondary Review: JMS 9/28/15 *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1508047-001.01					
	8260C				
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
		9/26/15	1151	In Lab / BWOJTASIEWICZ	
		9/26/15	1446	R-001-S09 / BWOJTASIEWICZ	
R1508047-001.02					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-001.03					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-002.01					
	8260C				
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
		9/26/15	1151	In Lab / BWOJTASIEWICZ	
		9/26/15	1446	R-001-S09 / BWOJTASIEWICZ	
		9/30/15	1552	In Lab / FNAEGLER	
		9/30/15	1554	R-001-S10 / FNAEGLER	
R1508047-002.02					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-002.03					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-003.01					
	8260C				
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
		9/26/15	1151	In Lab / BWOJTASIEWICZ	
		9/26/15	1446	R-001-S09 / BWOJTASIEWICZ	
R1508047-003.02					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-003.03					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-004.01					
	8260C				
		9/25/15	1201	SMO / MSTONE	

00010

ALS ENVIRONMENTAL

Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		9/25/15	1201	R-001 / MSTONE	
		9/26/15	1151	In Lab / BWOJTASIEWICZ	
		9/26/15	1446	R-001-S09 / BWOJTASIEWICZ	
R1508047-004.02					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-004.03					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-005.01					
	8260C				
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
		9/26/15	1151	In Lab / BWOJTASIEWICZ	
		9/26/15	1446	R-001-S09 / BWOJTASIEWICZ	
R1508047-005.02					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-005.03					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-006.01					
	8260C				
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
		9/26/15	1151	In Lab / BWOJTASIEWICZ	
		9/26/15	1446	R-001-S09 / BWOJTASIEWICZ	
		9/30/15	1552	In Lab / FNAEGLER	
		9/30/15	1554	R-001-S10 / FNAEGLER	
R1508047-006.02					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-006.03					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-007.01					
	8260C				
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
		9/26/15	1151	In Lab / BWOJTASIEWICZ	
		9/26/15	1447	R-001-S09 / BWOJTASIEWICZ	

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1508047-007.02					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-007.03					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-008.01					
	8260C				
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
		9/26/15	1150	In Lab / BWOJTASIEWICZ	
		9/26/15	1447	R-001-S09 / BWOJTASIEWICZ	
R1508047-008.02					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-008.03					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-009.01					
	8260C				
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
		9/26/15	1150	In Lab / BWOJTASIEWICZ	
		9/26/15	1447	R-001-S09 / BWOJTASIEWICZ	
R1508047-009.02					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-009.03					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-010.01					
	8260C				
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
		9/26/15	1150	In Lab / BWOJTASIEWICZ	
		9/26/15	1447	R-001-S09 / BWOJTASIEWICZ	
R1508047-010.02					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-010.03					
		9/25/15	1201	SMO / MSTONE	

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ALS ENVIRONMENTAL
Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		9/25/15	1201	R-001 / MSTONE	
R1508047-011.01					
	8260C				
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
		9/26/15	1150	In Lab / BWOJTASIEWICZ	
		9/26/15	1447	R-001-S09 / BWOJTASIEWICZ	
R1508047-011.02					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-011.03					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-012.01					
	8260C				
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
		9/26/15	1150	In Lab / BWOJTASIEWICZ	
		9/26/15	1447	R-001-S09 / BWOJTASIEWICZ	
R1508047-012.02					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	
R1508047-012.03					
		9/25/15	1201	SMO / MSTONE	
		9/25/15	1201	R-001 / MSTONE	

00013

ALS Environmental

VOLATILE ORGANICS
QC SUMMARY

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1508047
Date Analyzed: 9/26/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 464094

Analyte Name	Lab Control Sample RQ1511392-03 Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	17.1	20.0	85	74 - 120
1,1-Dichloroethane (1,1-DCA)	18.3	20.0	92	78 - 117
1,1-Dichloroethene (1,1-DCE)	19.2	20.0	96	74 - 135
Tetrachloroethene (PCE)	16.9	20.0	84	78 - 124
Trichloroethene (TCE)	17.4	20.0	87	78 - 123
Vinyl Chloride	23.2	20.0	116	69 - 133
cis-1,2-Dichloroethene	19.2	20.0	96	80 - 121
trans-1,2-Dichloroethene	19.6	20.0	98	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1508047
Date Analyzed: 9/30/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 464754

Analyte Name	Lab Control Sample RQ1511664-02 Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	16.2	20.0	81	74 - 120
1,1-Dichloroethane (1,1-DCA)	19.5	20.0	98	78 - 117
1,1-Dichloroethene (1,1-DCE)	18.7	20.0	93	74 - 135
Tetrachloroethene (PCE)	16.2	20.0	81	78 - 124
Trichloroethene (TCE)	17.1	20.0	86	78 - 123
Vinyl Chloride	25.6	20.0	128	69 - 133
cis-1,2-Dichloroethene	19.8	20.0	99	80 - 121
trans-1,2-Dichloroethene	19.4	20.0	97	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Analyzed:**	9/26/15 11:55
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-14
Lab Code:	RQ1511392-04	**File ID:**	I:\ACQUDATA\MSVOA14\Data\092615\B3320.D\
Analytical Method:	8260C		
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1511392-03	I:\ACQUDATA\MSVOA14\Data\092615\B3318.D\	9/26/15 11:00
TRIP BLANK	R1508047-001	I:\ACQUDATA\MSVOA14\Data\092615\B3328.D\	9/26/15 15:28
FB-092315	R1508047-011	I:\ACQUDATA\MSVOA14\Data\092615\B3329.D\	9/26/15 15:52
DMW-3	R1508047-007	I:\ACQUDATA\MSVOA14\Data\092615\B3333.D\	9/26/15 17:29
MW-13	R1508047-008	I:\ACQUDATA\MSVOA14\Data\092615\B3334.D\	9/26/15 17:53
TMP-4	R1508047-009	I:\ACQUDATA\MSVOA14\Data\092615\B3335.D\	9/26/15 18:17

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Analyzed:**	9/26/15 11:55
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name:	Method Blank	**Instrument ID:**	R-MS-14
Lab Code:	RQ1511392-04	**File ID:**	I:\ACQUDATA\MSVOA14\Data\092615\B3320.D\
Analytical Method:	8260C		
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1511392-03	I:\ACQUDATA\MSVOA14\Data\092615\B3318.D\	9/26/15 11:00
MW-17	R1508047-002	I:\ACQUDATA\MSVOA14\Data\092615\B3330.D\	9/26/15 16:16
MW-10	R1508047-003	I:\ACQUDATA\MSVOA14\Data\092615\B3331.D\	9/26/15 16:40
MW-16	R1508047-005	I:\ACQUDATA\MSVOA14\Data\092615\B3332.D\	9/26/15 17:04
MW-9	R1508047-010	I:\ACQUDATA\MSVOA14\Data\092615\B3336.D\	9/26/15 18:41
DUP092315	R1508047-012	I:\ACQUDATA\MSVOA14\Data\092615\B3337.D\	9/26/15 19:05
MW-11	R1508047-004	I:\ACQUDATA\MSVOA14\Data\092615\B3339.D\	9/26/15 19:54

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Analyzed:**	9/30/15 13:35
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name:	Method Blank	**Instrument ID:**	R-MS-10
Lab Code:	RQ1511664-01	**File ID:**	I:\ACQUDATA\msvoa10\data\093015\F2598.D\
Analytical Method:	8260C		
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1511664-02	I:\ACQUDATA\msvoa10\data\093015\F2596.D\	9/30/15 12:42
MW-8	R1508047-006	I:\ACQUDATA\msvoa10\data\093015\F2604.D\	9/30/15 16:18

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047
Date Analyzed: 09/10/15 8:07

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa14\data\091015\B3053.D\
Instrument ID: R-MS-14

Analytical Method: 8260C
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.4	14056	Pass
75	95	30	60	45.5	39872	Pass
95	95	100	100	100.0	85800	Pass
96	95	5	9	6.7	5755	Pass
173	174	0	2	0.9	624	Pass
174	95	50	120	79.6	68301	Pass
175	174	5	9	7.5	5092	Pass
176	174	95	101	97.1	66341	Pass
177	176	5	9	6.2	4114	Pass

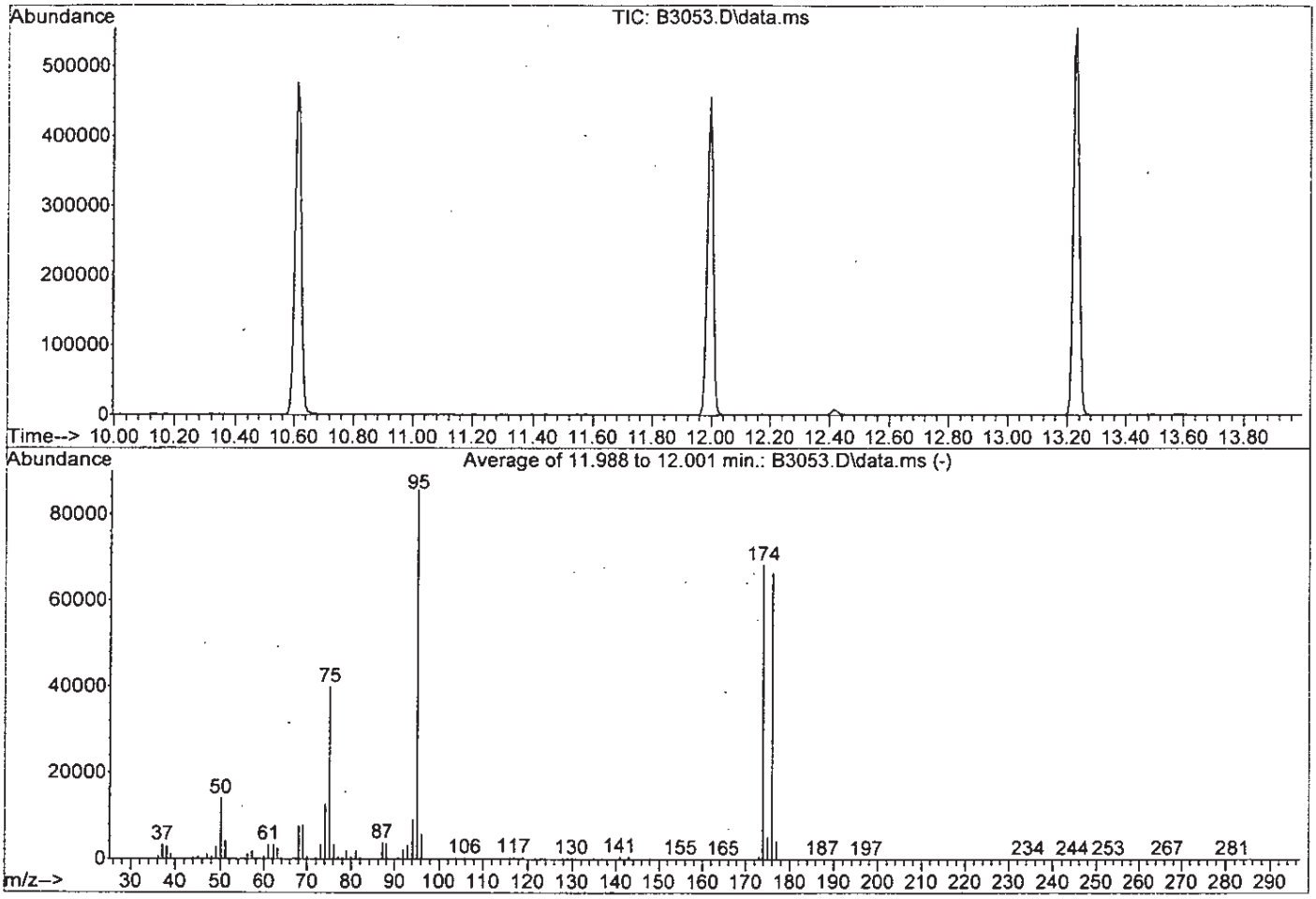
Sample Name	Lab Code	File ID	Date Analyzed	Q
Initial CalibrationICAL	0.5 ppb	I:\ACQUDATA\msvoa14\data\091015\B3055.D\	09/10/15 09:09	
Initial CalibrationICAL	1.0 ppb	I:\ACQUDATA\msvoa14\data\091015\B3056.D\	09/10/15 09:34	
Initial CalibrationICAL	2.0 ppb	I:\ACQUDATA\msvoa14\data\091015\B3057.D\	09/10/15 09:58	
Initial CalibrationICAL	5.0 ppb	I:\ACQUDATA\msvoa14\data\091015\B3058.D\	09/10/15 10:22	
Initial CalibrationICAL	20 ppb	I:\ACQUDATA\msvoa14\data\091015\B3059.D\	09/10/15 10:46	
Initial CalibrationICAL	50 ppb	I:\ACQUDATA\msvoa14\data\091015\B3060.D\	09/10/15 11:11	
Initial CalibrationICAL	100 ppb	I:\ACQUDATA\msvoa14\data\091015\B3061.D\	09/10/15 11:35	
Initial CalibrationICAL	150 ppb	I:\ACQUDATA\msvoa14\data\091015\B3062.D\	09/10/15 11:59	
Initial CalibrationICAL	200 ppb	I:\ACQUDATA\msvoa14\data\091015\B3063.D\	09/10/15 12:23	

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3053.D
Acq On : 10 Sep 2015 8:07 am
Operator : B Wojtasiewicz
Sample : TUNE Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

BV 09.10.15

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Thu Sep 10 14:17:13 2015



AutoFind: Scans 1821, 1822, 1823; Background Corrected with Scan 1814

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	14056	PASS
75	95	30	60	46.5	39872	PASS
95	95	100	100	100.0	85800	PASS
96	95	5	9	6.7	5755	PASS
173	174	0.00	2	0.9	624	PASS
174	95	50	120	79.6	68301	PASS
175	174	5	9	7.5	5092	PASS
176	174	95	101	97.1	66341	PASS
177	176	5	9	6.2	4114	PASS

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047
Date Analyzed: 09/10/15 16:35

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\091015\F1989.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	26.1	90187	Pass
75	95	30	60	53.2	183984	Pass
95	95	100	100	100.0	345664	Pass
96	95	5	9	6.5	22627	Pass
173	174	0	2	1.6	4127	Pass
174	95	50	120	75.9	262392	Pass
175	174	5	9	8.0	20933	Pass
176	174	95	101	97.1	254869	Pass
177	176	5	9	6.5	16443	Pass

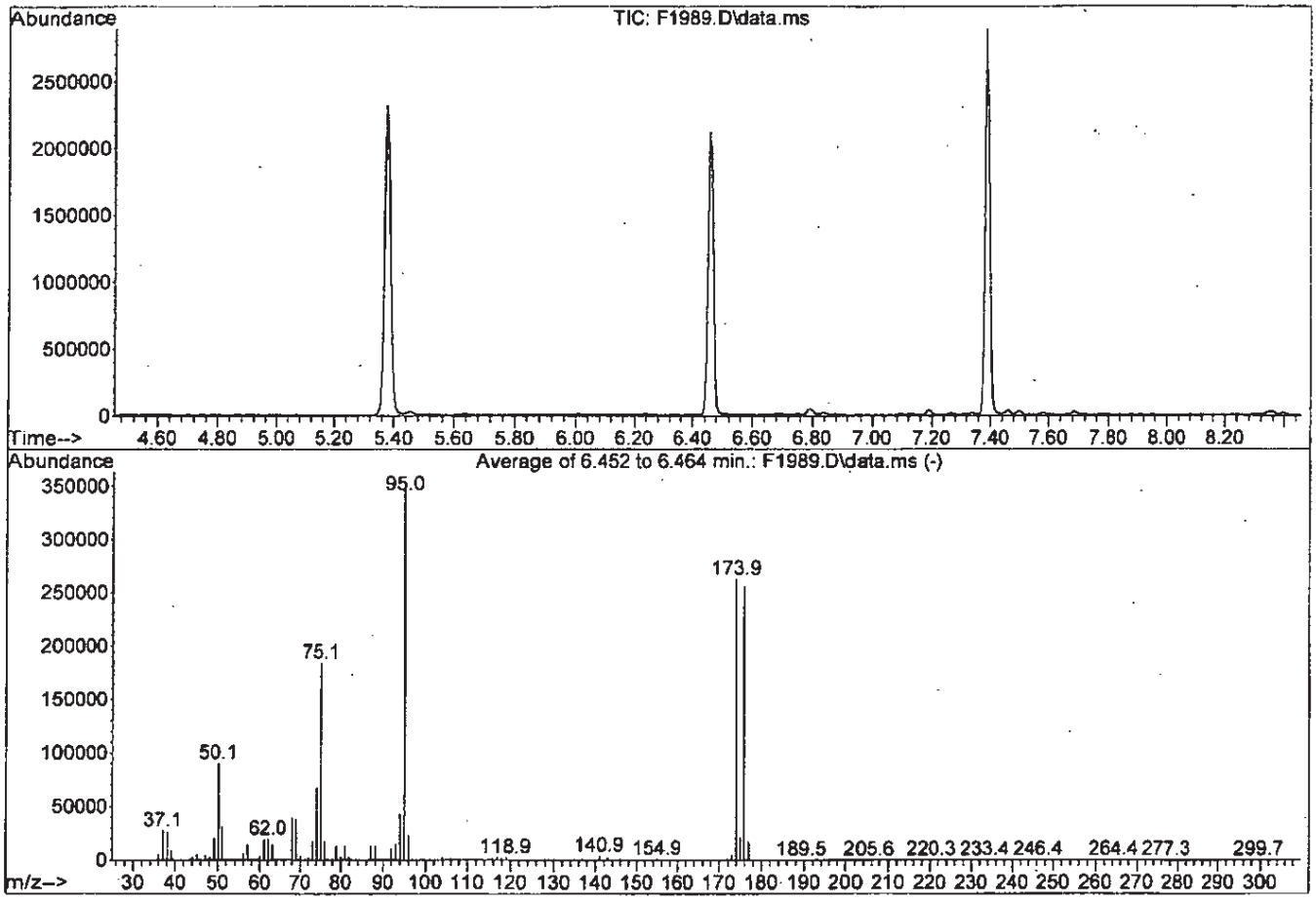
Sample Name	Lab Code	File ID	Date Analyzed	Q
Initial CalibrationICAL	0.5 ppb	I:\ACQUDATA\msvoa10\data\091015\F1991.D\	09/10/15 17:41	
Initial CalibrationICAL	1.0 ppb	I:\ACQUDATA\msvoa10\data\091015\F1992.D\	09/10/15 18:05	
Initial CalibrationICAL	2.0 ppb	I:\ACQUDATA\msvoa10\data\091015\F1993.D\	09/10/15 18:29	
Initial CalibrationICAL	5.0 ppb	I:\ACQUDATA\msvoa10\data\091015\F1994.D\	09/10/15 18:54	
Initial CalibrationICAL	20 ppb	I:\ACQUDATA\msvoa10\data\091015\F1995.D\	09/10/15 19:18	
Initial CalibrationICAL	50 ppb	I:\ACQUDATA\msvoa10\data\091015\F1996.D\	09/10/15 19:42	
Initial CalibrationICAL	100 ppb	I:\ACQUDATA\msvoa10\data\091015\F1997.D\	09/10/15 20:06	
Initial CalibrationICAL	150 ppb	I:\ACQUDATA\msvoa10\data\091015\F1998.D\	09/10/15 20:31	
Initial CalibrationICAL	200 ppb	I:\ACQUDATA\msvoa10\data\091015\F1999.D\	09/10/15 20:55	

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1989.D
Acq On : 10 Sep 2015 4:35 pm
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

FW 9/11/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T091015.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.1	90187	PASS
75	95	30	60	53.2	183984	PASS
95	95	100	100	100.0	345664	PASS
96	95	5	9	6.5	22627	PASS
173	174	0.00	2	1.6	4127	PASS
174	95	50	120	75.9	262392	PASS
175	174	5	9	8.0	20933	PASS
176	174	95	101	97.1	254869	PASS
177	176	5	9	6.5	16443	PASS

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047
Date Analyzed: 9/26/15 09:50

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\Data\092615\B3316.D\
Instrument ID: R-MS-14

Analytical Method: 8260C
Analysis Lot: 464094

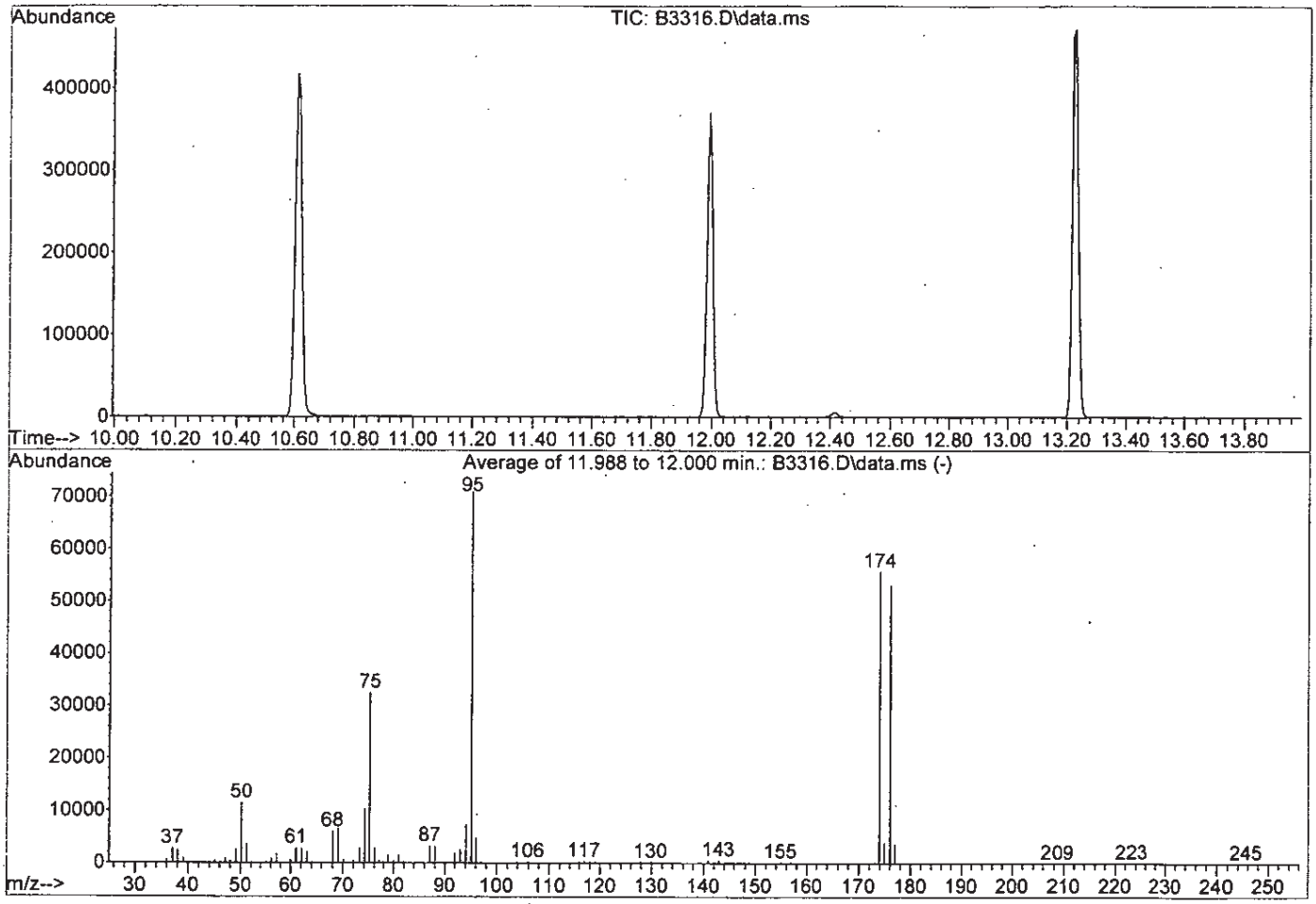
Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.12	11435	Pass
75	95	30	60	45.76	32453	Pass
95	95	100	100	100.00	70925	Pass
96	95	5	9	6.65	4717	Pass
173	174	0	2	0.27	148	Pass
174	95	50	120	78.58	55733	Pass
175	174	5	9	6.97	3886	Pass
176	174	95	101	95.27	53099	Pass
177	176	5	9	6.83	3627	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1511392-02	I:\ACQUDATA\MSVOA14\Data\092615\B3317.D\	9/26/15 10:22	
Lab Control Sample	RQ1511392-03	I:\ACQUDATA\MSVOA14\Data\092615\B3318.D\	9/26/15 11:00	
Method Blank	RQ1511392-04	I:\ACQUDATA\MSVOA14\Data\092615\B3320.D\	9/26/15 11:55	
MW-17	R1508047-002	I:\ACQUDATA\MSVOA14\Data\092615\B3330.D\	9/26/15 16:16	
MW-10	R1508047-003	I:\ACQUDATA\MSVOA14\Data\092615\B3331.D\	9/26/15 16:40	
MW-16	R1508047-005	I:\ACQUDATA\MSVOA14\Data\092615\B3332.D\	9/26/15 17:04	
MW-9	R1508047-010	I:\ACQUDATA\MSVOA14\Data\092615\B3336.D\	9/26/15 18:41	
DUP092315	R1508047-012	I:\ACQUDATA\MSVOA14\Data\092615\B3337.D\	9/26/15 19:05	
MW-11	R1508047-004	I:\ACQUDATA\MSVOA14\Data\092615\B3339.D\	9/26/15 19:54	

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3316.D
Acq On : 26 Sep 2015 9:50 am
Operator : B Wojtasiewicz
Sample : TUNE Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Thu Sep 10 14:17:13 2015



AutoFind: Scans 1821, 1822, 1823; Background Corrected with Scan 1815

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	11435	PASS
75	95	30	60	45.8	32453	PASS
95	95	100	100	100.0	70925	PASS
96	95	5	9	6.7	4717	PASS
173	174	0.00	2	0.3	148	PASS
174	95	50	120	78.6	55733	PASS
175	174	5	9	7.0	3886	PASS
176	174	95	101	95.3	53099	PASS
177	176	5	9	6.8	3627	PASS

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047
Date Analyzed: 9/30/15 10:47

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\msvoa10\data\093015\F2593.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 464754

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	25.53	86269	Pass
75	95	30	60	47.23	159565	Pass
95	95	100	100	100.00	337856	Pass
96	95	5	9	6.35	21450	Pass
173	174	0	2	0.85	2242	Pass
174	95	50	120	78.37	264768	Pass
175	174	5	9	7.80	20664	Pass
176	174	95	101	95.30	252333	Pass
177	176	5	9	6.95	17529	Pass

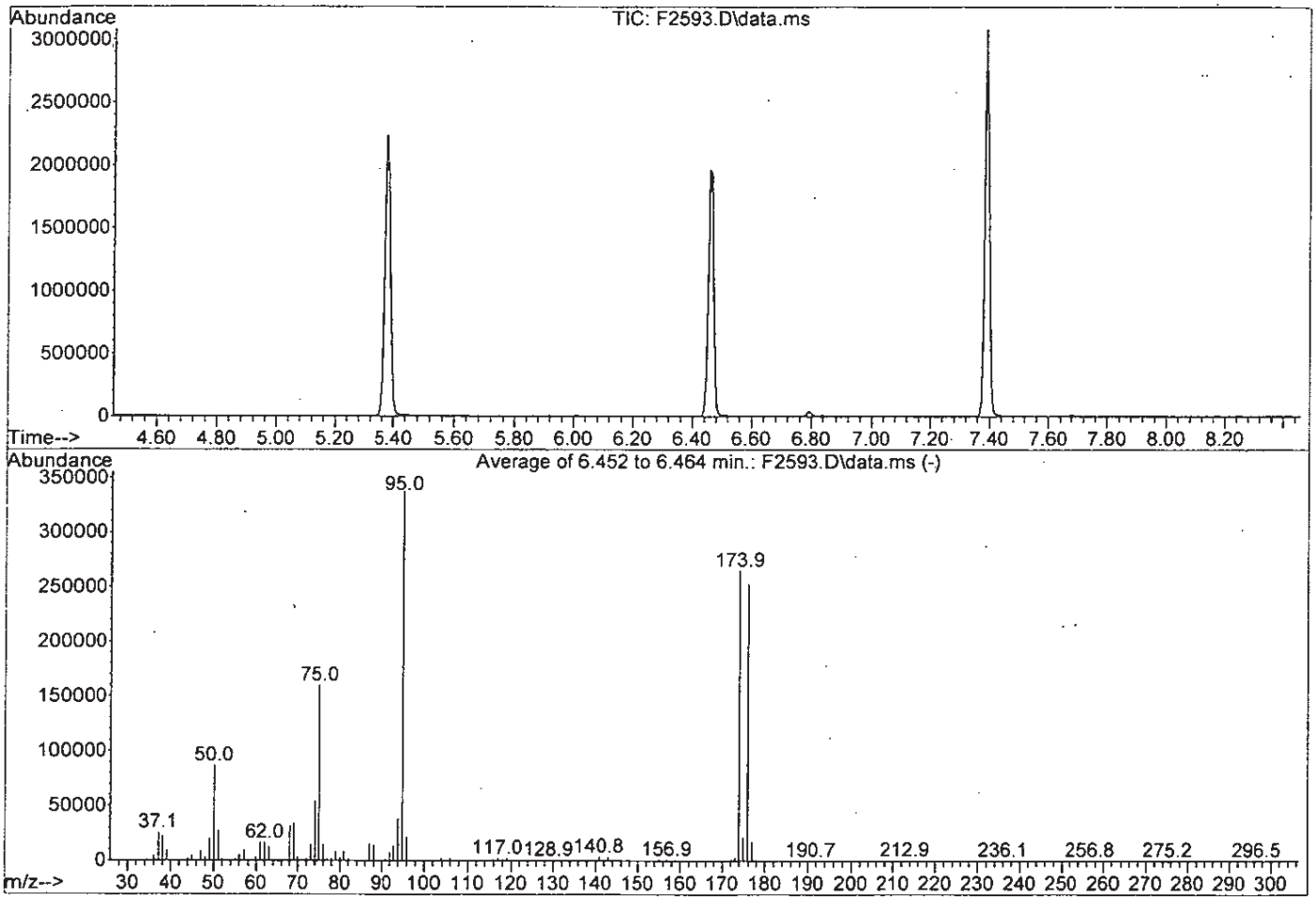
Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1511664-04	I:\ACQUDATA\msvoa10\data\093015\F2594.D\	9/30/15 11:36	
Lab Control Sample	RQ1511664-02	I:\ACQUDATA\msvoa10\data\093015\F2596.D\	9/30/15 12:42	
Method Blank	RQ1511664-01	I:\ACQUDATA\msvoa10\data\093015\F2598.D\	9/30/15 13:35	
MW-8	R1508047-006	I:\ACQUDATA\msvoa10\data\093015\F2604.D\	9/30/15 16:18	

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2593.D
Acq On : 30 Sep 2015 10:47 am
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: CPD4.P

FD 10/1/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T091015.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.5	86269	PASS
75	95	30	60	47.2	159565	PASS
95	95	100	100	100.0	337856	PASS
96	95	5	9	6.3	21450	PASS
173	174	0.00	2	0.8	2242	PASS
174	95	50	120	78.4	264768	PASS
175	174	5	9	7.8	20664	PASS
176	174	95	101	95.3	252333	PASS
177	176	5	9	6.9	17529	PASS

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047
Date Analyzed: 9/26/15 10:22

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\092615\B3317.D\
Instrument ID: R-MS-14
Analytical Method: 8260C

Lab Code: RQ1511392-02
Analysis Lot: 464094
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	118,231	13.23	264,829	5.88	236,969	10.61
	Upper Limit ==>	236,462	13.73	529,658	6.38	473,938	11.11
	Lower Limit ==>	59,116	12.73	132,415	5.38	118,485	10.11
	ICAL Result ==>	115,433	13.23	256,563	5.89	227,082	10.62
Associated Analyses							
Lab Control Sample	RQ1511392-03	117,734	13.23	266,916	5.88	236,794	10.61
Method Blank	RQ1511392-04	103,637	13.23	232,578	5.89	207,493	10.61
TRIP BLANK	R1508047-001	103,708	13.23	235,340	5.89	208,589	10.62
FB-092315	R1508047-011	100,577	13.23	227,623	5.89	201,542	10.61
DMW-3	R1508047-007	103,025	13.23	232,442	5.88	204,668	10.61
MW-13	R1508047-008	100,536	13.23	229,375	5.89	204,180	10.61
TMP-4	R1508047-009	97,385	13.23	224,190	5.89	197,683	10.61

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047
Date Analyzed: 9/26/15 10:22

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\092615\B3317.D\
Instrument ID: R-MS-14
Analytical Method: 8260C

Lab Code: RQ1511392-02
Analysis Lot: 464094
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	170,980	4.48
	Upper Limit ==>	341,960	4.98
	Lower Limit ==>	85,490	3.98
	ICAL Result ==>	169,665	4.49
Associated Analyses			
Lab Control Sample	RQ1511392-03	170,337	4.48
Method Blank	RQ1511392-04	149,759	4.49
TRIP BLANK	R1508047-001	150,652	4.49
FB-092315	R1508047-011	146,944	4.49
DMW-3	R1508047-007	150,190	4.48
MW-13	R1508047-008	148,514	4.49
TMP-4	R1508047-009	143,605	4.49

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047
Date Analyzed: 9/26/15 10:22

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\Data\092615\B3317.D\
Instrument ID: R-MS-14
Analytical Method: 8260C

Lab Code: RQ1511392-02
Analysis Lot: 464094
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	RT	Area	RT	Area	RT
	Results ==>	118,231	13.23	264,829	5.88	236,969	10.61
	Upper Limit ==>	236,462	13.73	529,658	6.38	473,938	11.11
	Lower Limit ==>	59,116	12.73	132,415	5.38	118,485	10.11
	ICAL Result ==>	115,433	13.23	256,563	5.89	227,082	10.62
Associated Analyses							
Lab Control Sample	RQ1511392-03	117,734	13.23	266,916	5.88	236,794	10.61
Method Blank	RQ1511392-04	103,637	13.23	232,578	5.89	207,493	10.61
MW-17	R1508047-002	102,937	13.23	221,244	5.88	207,246	10.62
MW-10	R1508047-003	100,553	13.23	226,561	5.89	201,724	10.62
MW-16	R1508047-005	102,888	13.23	232,419	5.89	206,285	10.62
MW-9	R1508047-010	105,067	13.23	237,034	5.89	210,332	10.61
DUP092315	R1508047-012	103,881	13.23	238,240	5.89	210,269	10.61
MW-11	R1508047-004	102,889	13.23	243,955	5.89	216,780	10.62

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047
Date Analyzed: 9/26/15 10:22

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\Data\092615\B3317.D\
Instrument ID: R-MS-14
Analytical Method: 8260C

Lab Code: RQ1511392-02
Analysis Lot: 464094
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	170,980	4.48
	Upper Limit ==>	341,960	4.98
	Lower Limit ==>	85,490	3.98
	ICAL Result ==>	169,665	4.49
Associated Analyses			
Lab Control Sample	RQ1511392-03	170,337	4.48
Method Blank	RQ1511392-04	149,759	4.49
MW-17	R1508047-002	142,526	4.48
MW-10	R1508047-003	145,918	4.48
MW-16	R1508047-005	150,678	4.49
MW-9	R1508047-010	151,086	4.49
DUP092315	R1508047-012	152,670	4.49
MW-11	R1508047-004	156,763	4.49

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047
Date Analyzed: 9/30/15 11:36

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\msvoa10\data\093015\F2594.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1511664-04
Analysis Lot: 464754
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	547,525	11.99	1,155,002	6.72	1,028,494	9.96
	Upper Limit ==>	1,095,050	12.49	2,310,004	7.22	2,056,988	10.46
	Lower Limit ==>	273,763	11.49	577,501	6.22	514,247	9.46
	ICAL Result ==>	558,318	11.99	1,119,978	6.72	995,526	9.96
Associated Analyses							
Lab Control Sample	RQ1511664-02	554,499	11.99	1,155,461	6.71	1,048,727	9.96
Method Blank	RQ1511664-01	498,846	11.99	1,080,185	6.71	956,000	9.96
MW-8	R1508047-006	492,745	11.99	1,117,685	6.71	970,721	9.96

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047
Date Analyzed: 9/30/15 11:36

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\msvoa10\data\093015\F2594.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1511664-04
Analysis Lot: 464754
Signal ID:

		Pentafluorobenzene	
		Area	RT
	Results ==>	796,551	5.67
	Upper Limit ==>	1,593,102	6.17
	Lower Limit ==>	398,276	5.17
	ICAL Result ==>	783,952	5.67
Associated Analyses			
Lab Control Sample	RQ1511664-02	788,697	5.67
Method Blank	RQ1511664-01	714,594	5.67
MW-8	R1508047-006	733,499	5.67

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Environmental

VOLATILE ORGANICS SAMPLE DATA

ALS Environmental - Rochester, NY
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1315
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 15:28
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1508047-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3328.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	9/26/15 15:28	
Dibromofluoromethane	93	89-119	9/26/15 15:28	
Toluene-d8	97	87-121	9/26/15 15:28	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3328.D
Acq On : 26 Sep 2015 3:28 pm
Operator : B Wojtasiewicz
Sample : R1508047-001|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 01 13:04:04 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	150652	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	235340	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.617	117	208589	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	103708	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.331	113	69641	46.68	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 93.36%			
47) surr1,1,2-dichloroetha...	4.898	65	84068	49.52	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.04%			
64) SURR3,Toluene-d8	8.690	98	282765	48.59	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.18%			
69) SURR2,BFB	11.994	95	105837	47.80	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.60%			
Target Compounds						Qvalue
15) Acetone	1.905	43	367	0.52	ug/L #	67

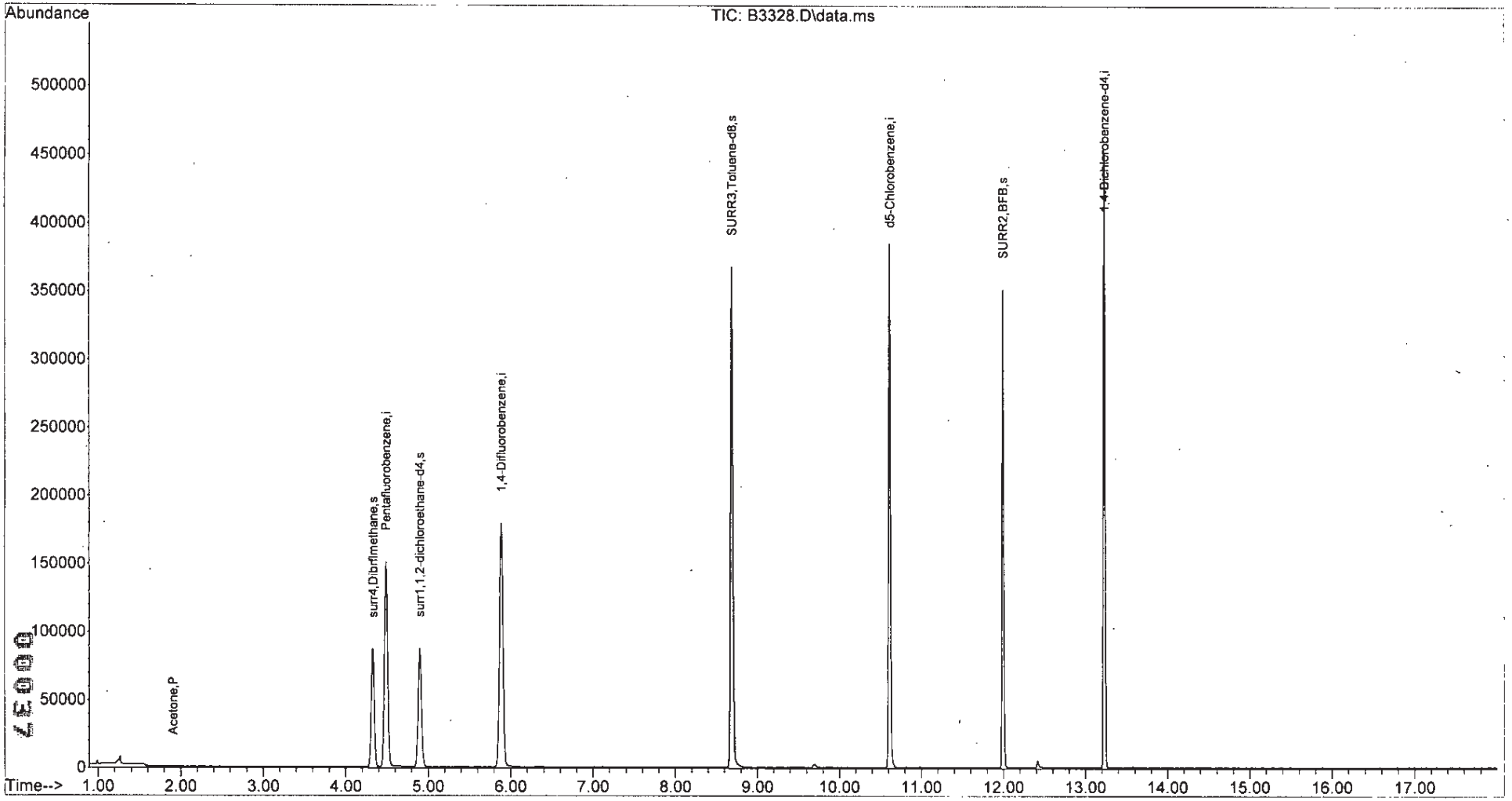
(#) = qualifier out of range (m) = manual integration (+) = signals summed

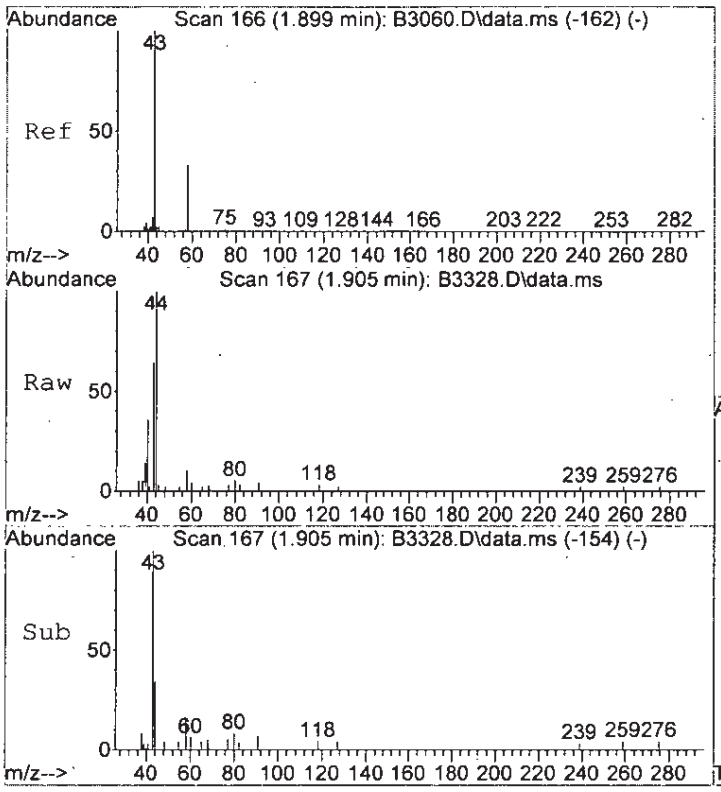
BA 10/1

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3328.D
Acq On : 26 Sep 2015 3:28 pm
Operator : B Wojtasiewicz
Sample : R1508047-001|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 01 13:04:04 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

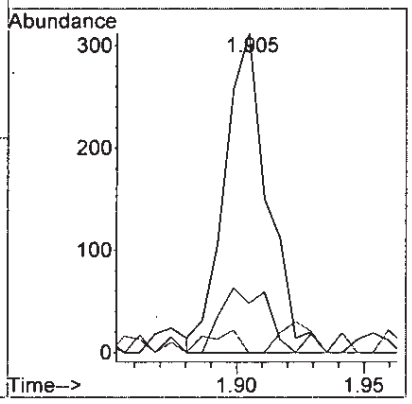




#15
Acetone
Concen: 0.52 ug/L
RT: 1.905 min Scan# 167
Delta R.T. 0.007 min
Lab File: B3328.D
Acq: 26 Sep 2015 3:28 pm

Tgt Ion: 43 Resp: 367

Ion	Ratio	Lower	Upper
43	100		
58	15.4	15.5	55.5#
42	0.0	0.0	29.2



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1019
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 16:16
Sample Name:	MW-17	**Units:**	µg/L
Lab Code:	R1508047-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3330.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**2.7**	**J**	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**21**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	9/26/15 16:16	
Dibromofluoromethane	96	89-119	9/26/15 16:16	
Toluene-d8	102	87-121	9/26/15 16:16	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3330.D
Acq On : 26 Sep 2015 4:16 pm
Operator : B Wojtasiewicz
Sample : R1508047-002|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 01 13:09:02 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.484	168	142526	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	5.880	114	221244	50.00	ug/L		0.00
70) d5-Chlorobenzene	10.617	117	207246	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	102937	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.325	113	67587	48.19	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 96.38%				
47) surr1,1,2-dichloroetha...	4.898	65	83554	52.36	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.72%				
64) SURR3,Toluene-d8	8.690	98	280430	51.25	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.50%				
69) SURR2,BFB	11.994	95	104894	50.40	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.80%				
Target Compounds							Qvalue
6) Chloroethane	1.350	64	142133	148.35	ug/L		99
10) Freon 123a	1.710	67	4540	2.86	ug/L		90
14) Freon 113	1.862	101	365	0.29	ug/L	#	67
15) Acetone	1.929	43	296862m	443.69	ug/L		
18) Carbon Disulfide	2.008	76	7293	2.15	ug/L		99
27) 1,1-Diclethane	2.886	63	49106	20.60	ug/L		99
34) 2-Butanone	3.654	43	25514m	27.27	ug/L		
40) 1,1,1-Trichloroethane	4.325	97	5426	2.71	ug/L		93
48) Benzene	4.990	78	3448	0.58	ug/L	#	68
63) 4-Methyl-2-pentanone	8.623	43	3396	2.05	ug/L		90
72) 2-Hexanone	9.830	43	7019	5.38	ug/L		93

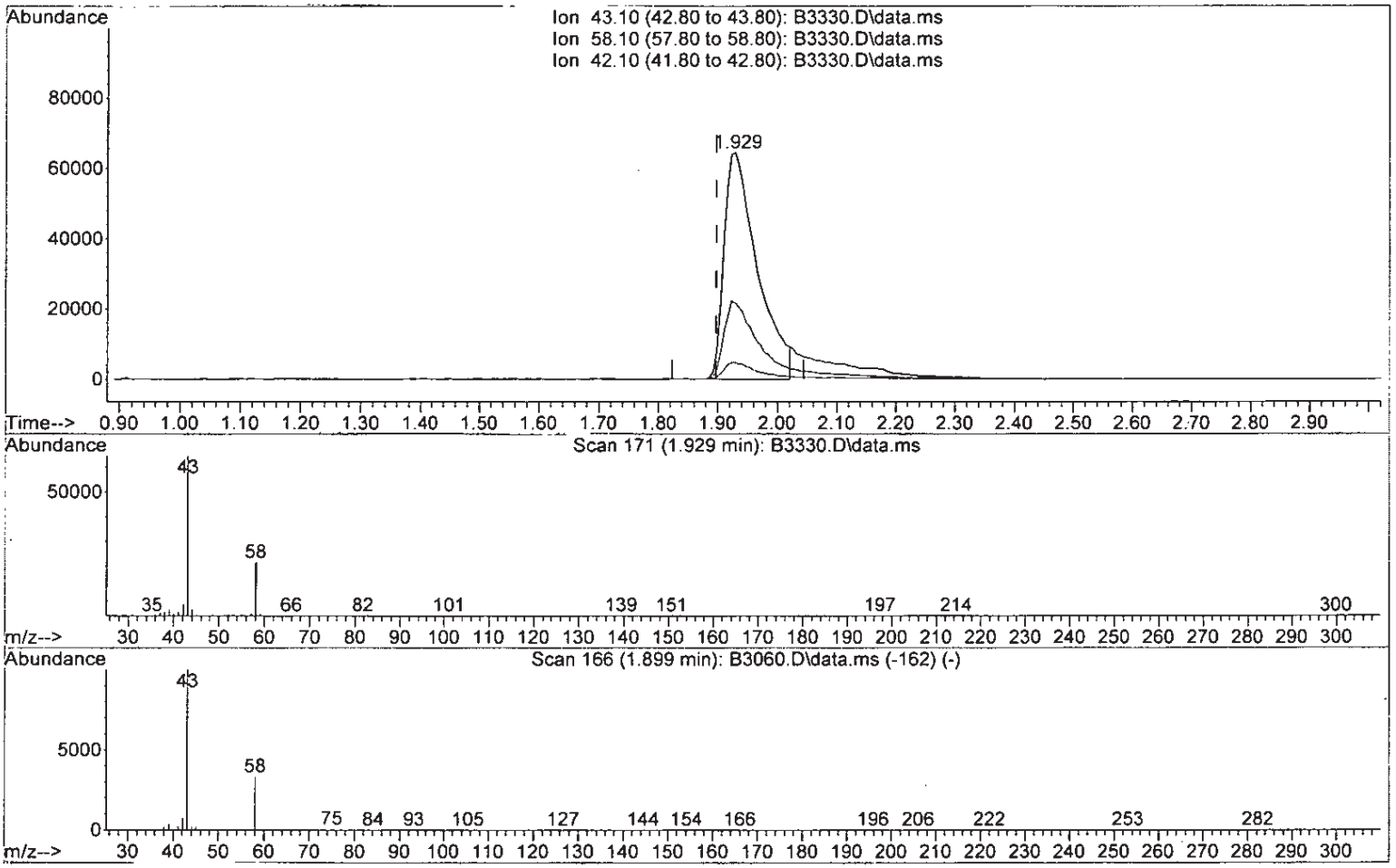
(#) = qualifier out of range (m) = manual integration (+) = signals summed

BAD 10/1

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3330.D
Acq On : 26 Sep 2015 4:16 pm
Operator : B Wojtasiewicz
Sample : R1508047-002|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 28 06:36:10 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3330.D\data.ms

(15) Acetone (P)

1.929min (+0.031) 370.93 ug/L

response 248181

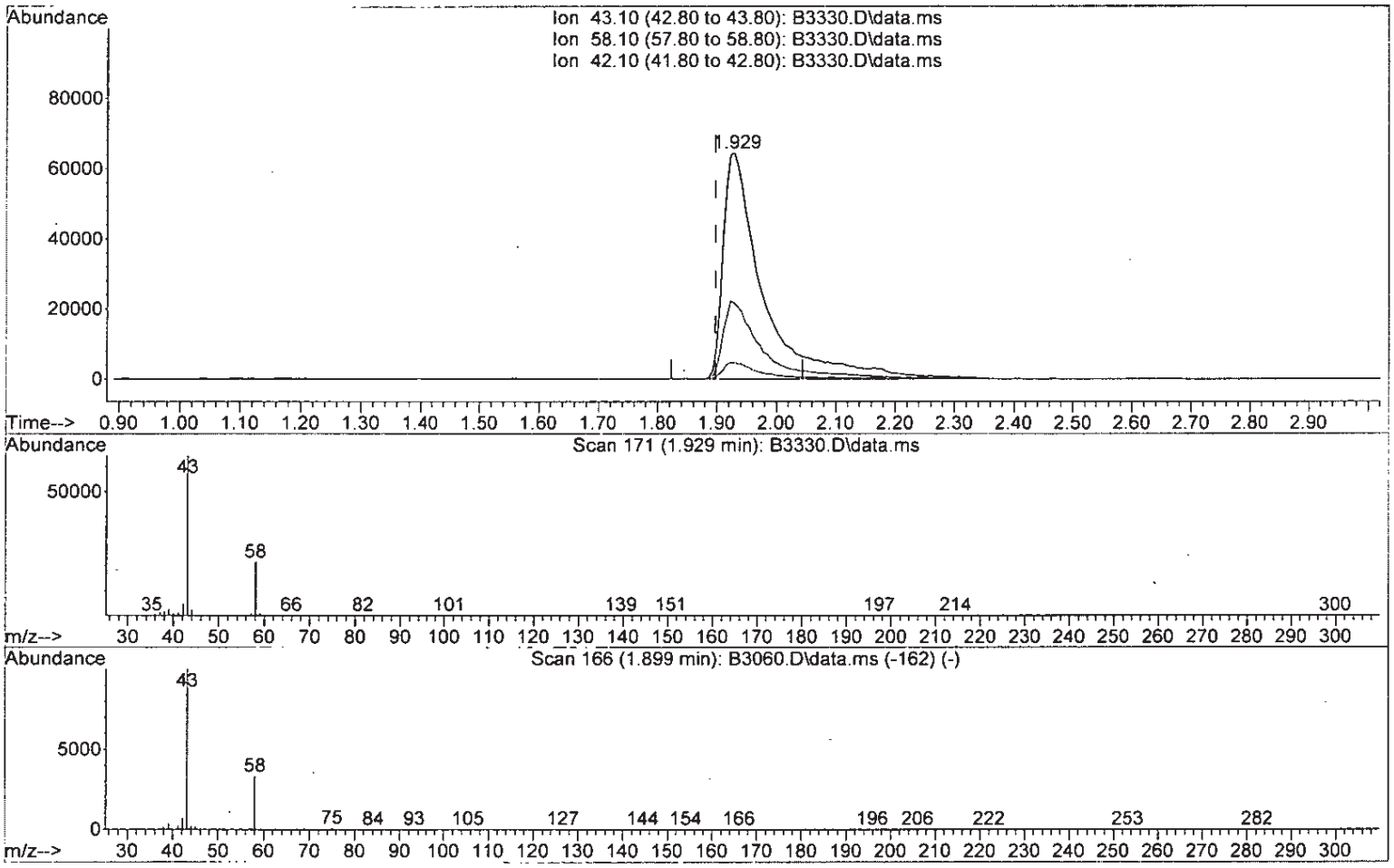
Ion	Exp%	Act%
43.10	100	100
58.10	35.50	33.52
42.10	9.20	7.27
0.00	0.00	0.00

B

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3330.D
Acq On : 26 Sep 2015 4:16 pm
Operator : B Wojtasiewicz
Sample : R1508047-002|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 28 06:36:10 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3330.D\data.ms

(15) Acetone (P)

1.929min (+0.031) 443.69 ug/L m

response 296862

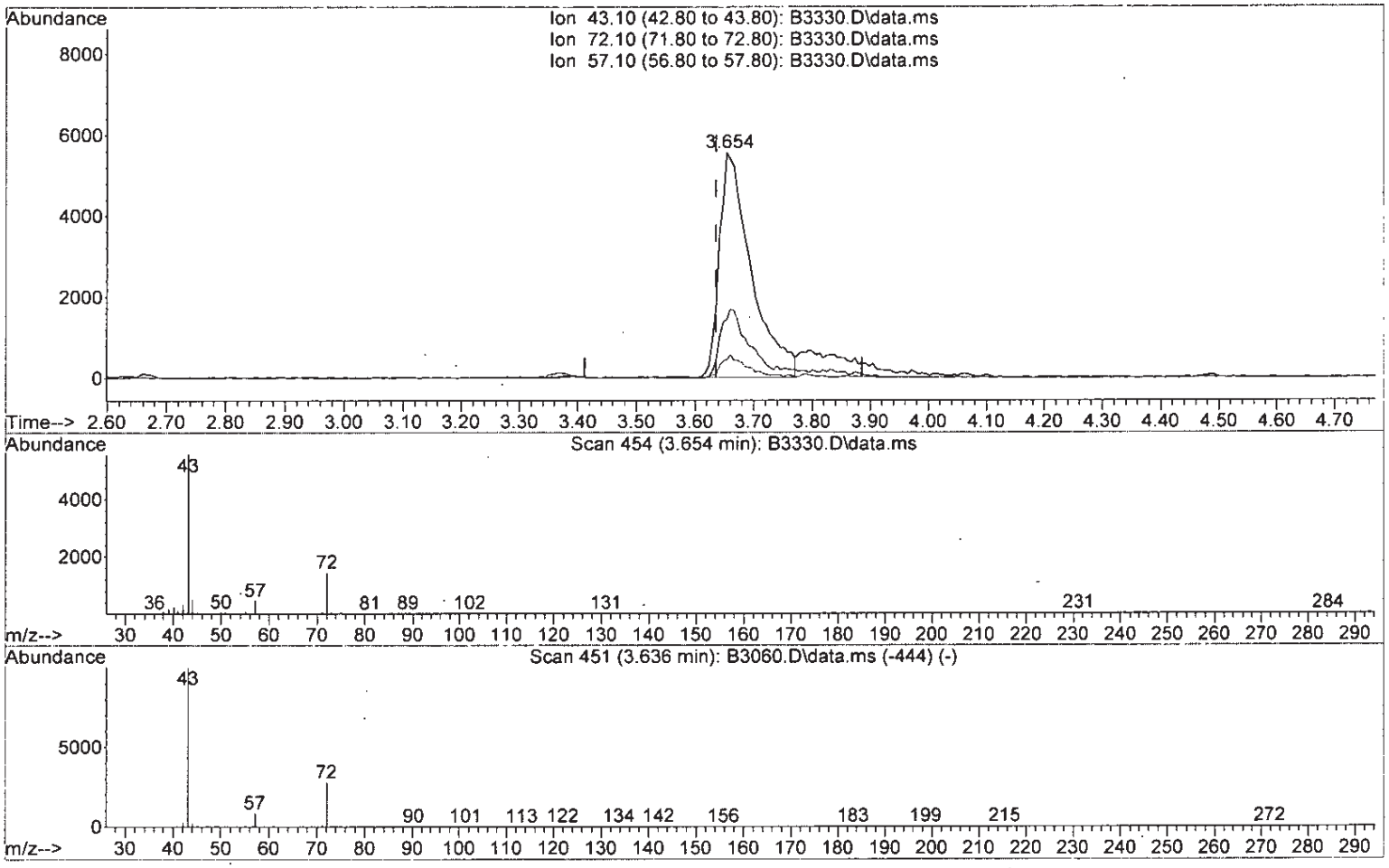
Ion	Exp%	Act%
43.10	100	100
58.10	35.50	33.52
42.10	9.20	7.27
0.00	0.00	0.00

A
BA 10/1
(BC)
FW 10/2/15

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3330.D
Acq On : 26 Sep 2015 4:16 pm
Operator : B Wojtasiewicz
Sample : R1508047-002|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 28 06:36:10 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3330.D\data.ms

(34) 2-Butanone (P)

3.654min (+0.018) 22.31 ug/L

response 20880

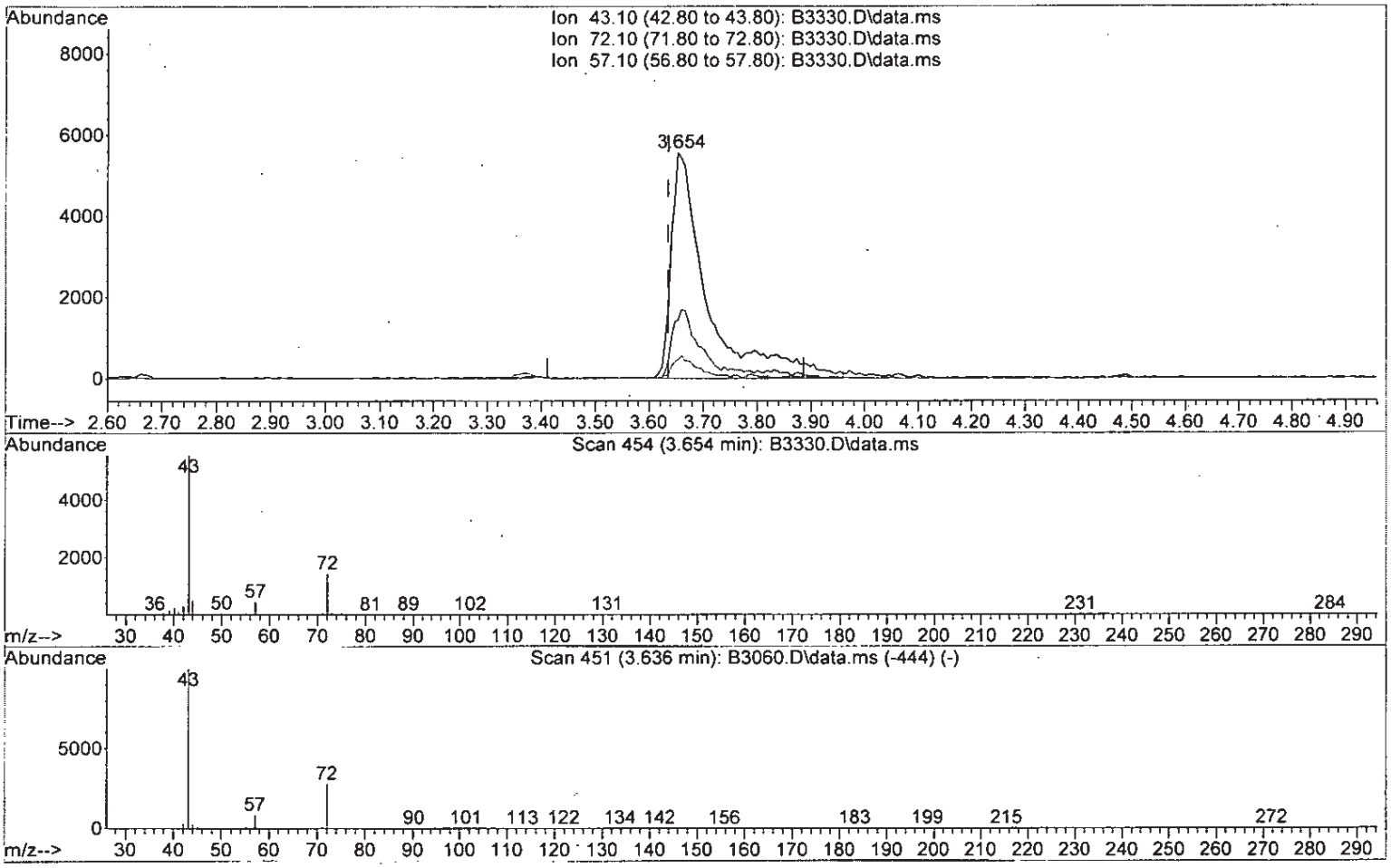
Ion	Exp%	Act%
43.10	100	100
72.10	32.80	25.83
57.10	8.20	8.18
0.00	0.00	0.00

B

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3330.D
Acq On : 26 Sep 2015 4:16 pm
Operator : B Wojtasiewicz
Sample : R1508047-002|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 01 13:09:02 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3330.D\data.ms

(34) 2-Butanone (P)

3.654min (+0.018) 27.27 ug/L m

response 25514

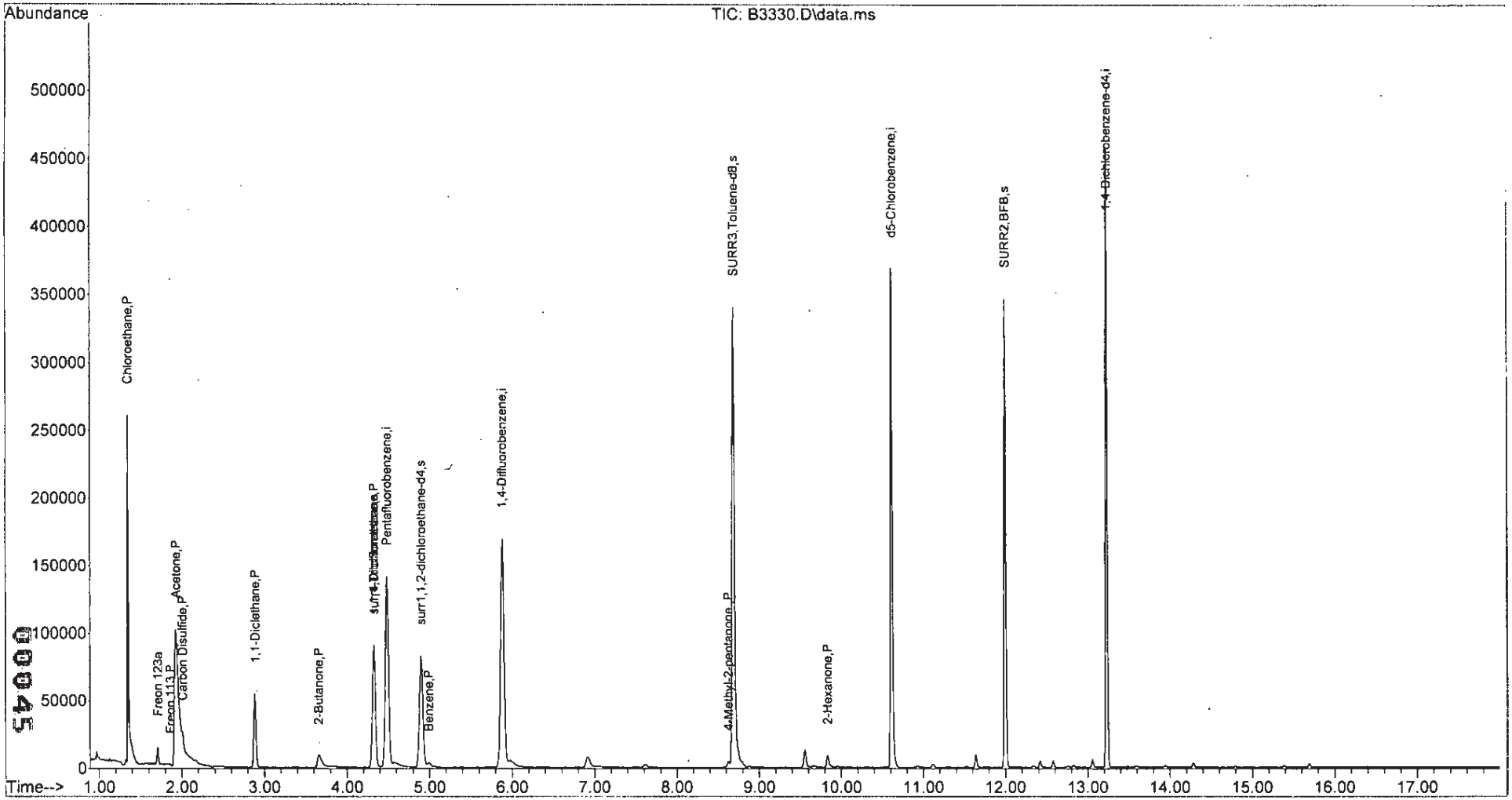
Ion	Exp%	Act%
43.10	100	100
72.10	32.80	25.83
57.10	8.20	8.18
0.00	0.00	0.00

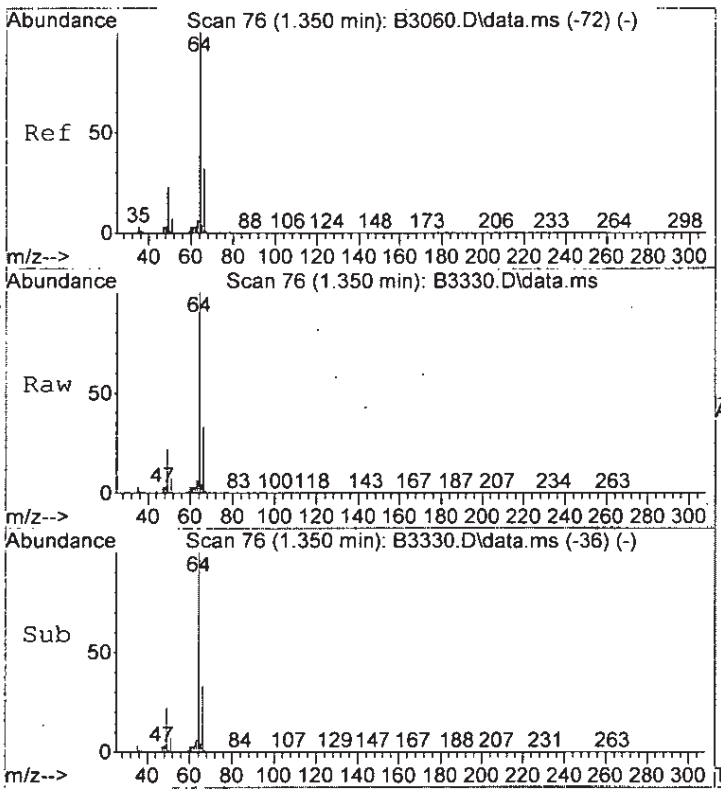
A
BA 10/1
(BC)
FV 10/2/15

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3330.D
Acq On : 26 Sep 2015 4:16 pm
Operator : B Wojtasiewicz
Sample : R1508047-002|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 01 13:09:02 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

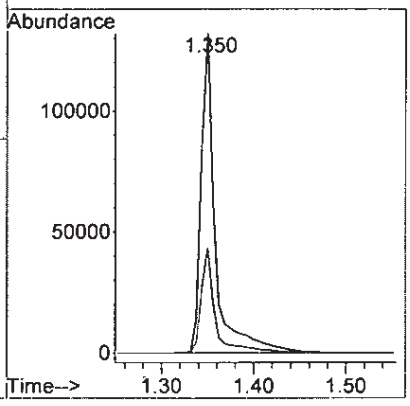


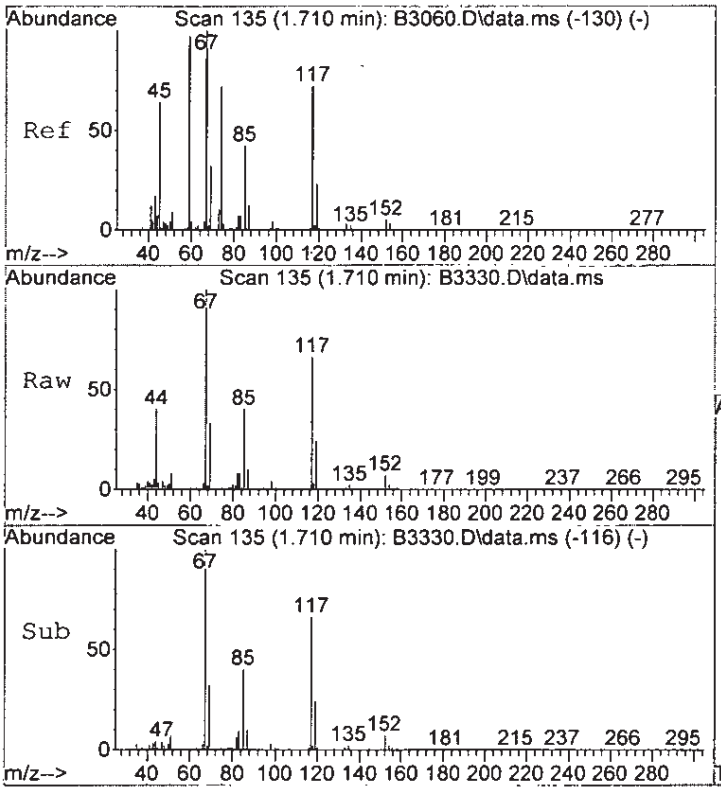


#6
Chloroethane
Concen: 148.35 ug/L
RT: 1.350 min Scan# 76
Delta R.T. -0.000 min
Lab File: B3330.D
Acq: 26 Sep 2015 4:16 pm

Tgt Ion: 64 Resp: 142133

Ion	Ratio	Lower	Upper
64	100		
66	32.9	13.4	53.4

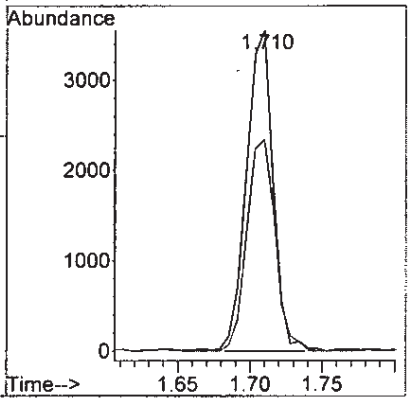


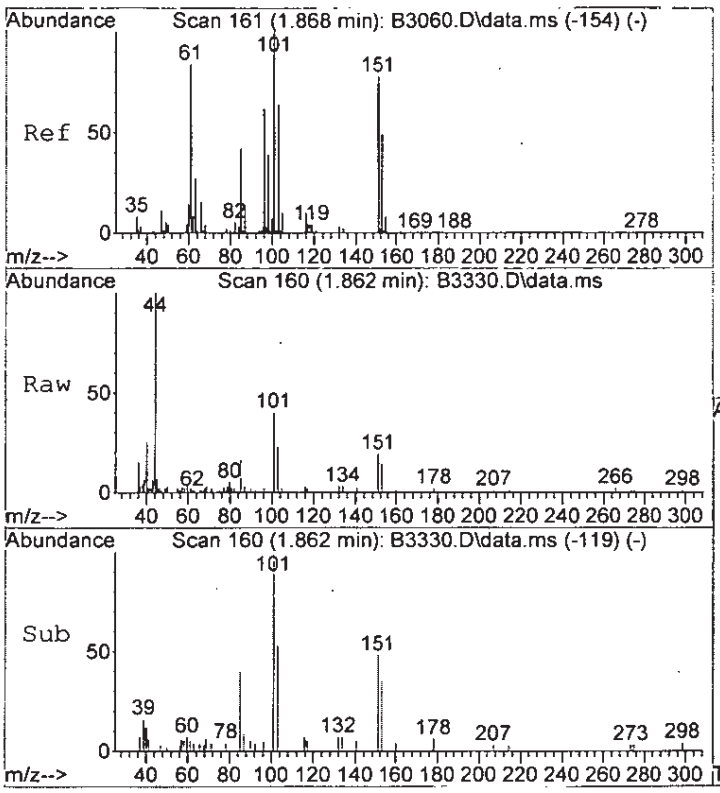


#10
Freon 123a
Concen: 2.86 ug/L
RT: 1.710 min Scan# 135
Delta R.T. -0.000 min
Lab File: B3330.D
Acq: 26 Sep 2015 4:16 pm

Tgt Ion: 67 Resp: 4540

Ion	Ratio	Lower	Upper
67	100		
117	65.9	54.5	94.5

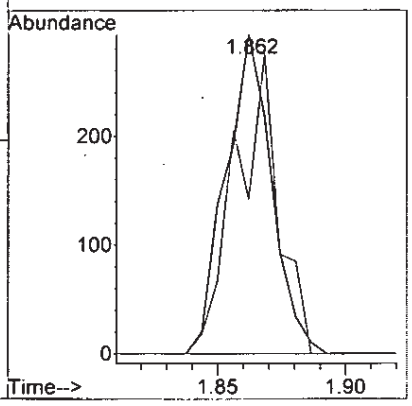


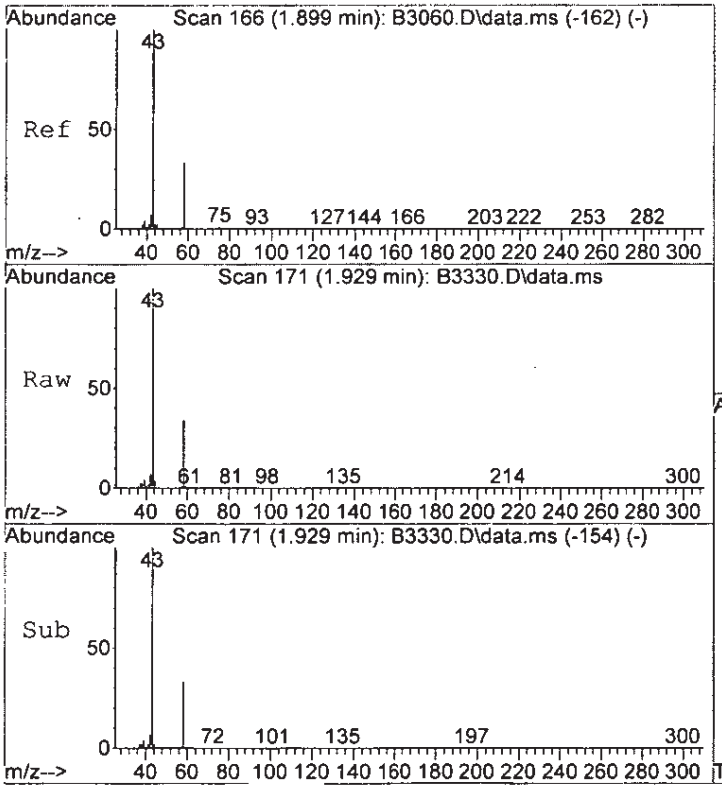


#14
Freon 113
Concen: 0.29 ug/L
RT: 1.862 min Scan# 160
Delta R.T. -0.006 min
Lab File: B3330.D
Acq: 26 Sep 2015 4:16 pm

Tgt Ion:101 Resp: 365

Ion	Ratio	Lower	Upper
101	100		
151	48.5	56.9	96.9#

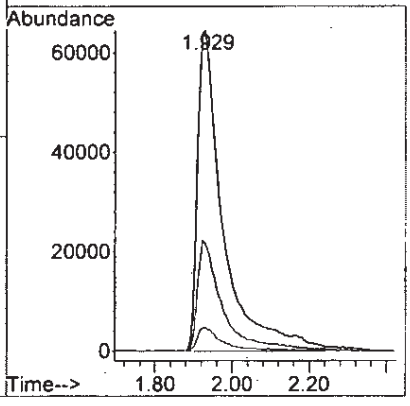


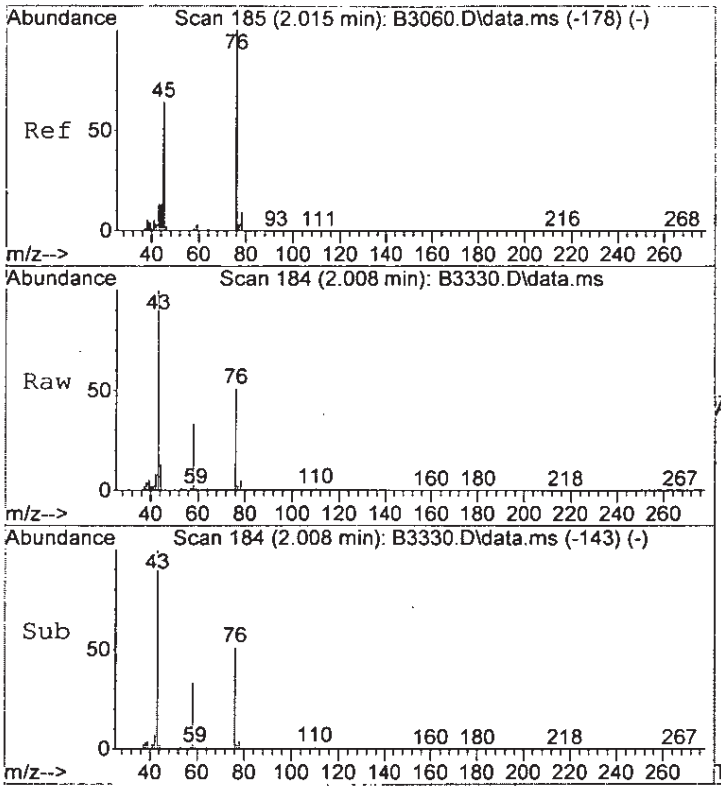


#15
Acetone
Concen: 443.69 ug/L m
RT: 1.929 min Scan# 171
Delta R.T. 0.031 min
Lab File: B3330.D
Acq: 26 Sep 2015 4:16 pm

Tgt Ion: 43 Resp: 296862

Ion	Ratio	Lower	Upper
43	100		
58	33.5	15.5	55.5
42	7.3	0.0	29.2

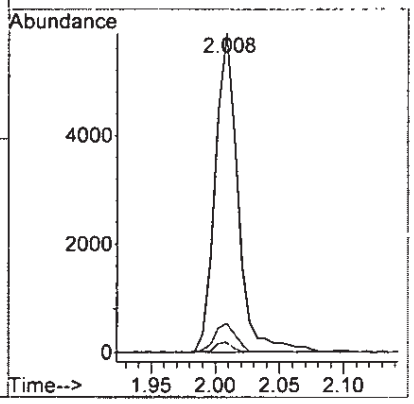


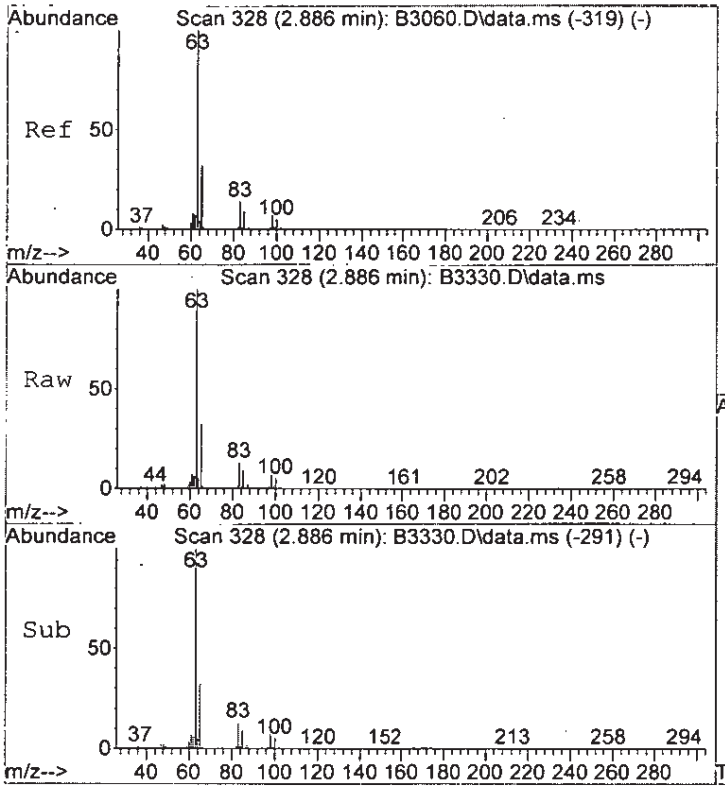


#18
Carbon Disulfide
Concen: 2.15 ug/L
RT: 2.008 min Scan# 184
Delta R.T. -0.006 min
Lab File: B3330.D
Acq: 26 Sep 2015 4:16 pm

Tgt Ion: 76 Resp: 7293

Ion	Ratio	Lower	Upper
76	100		
78	9.0	0.0	29.3
77	3.1	0.0	22.7

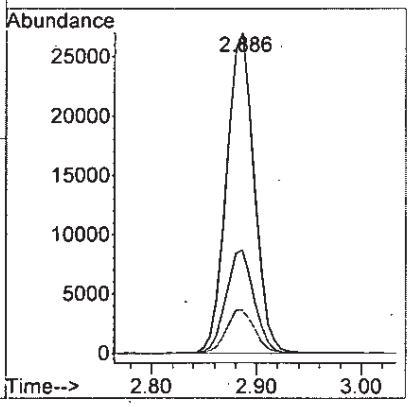


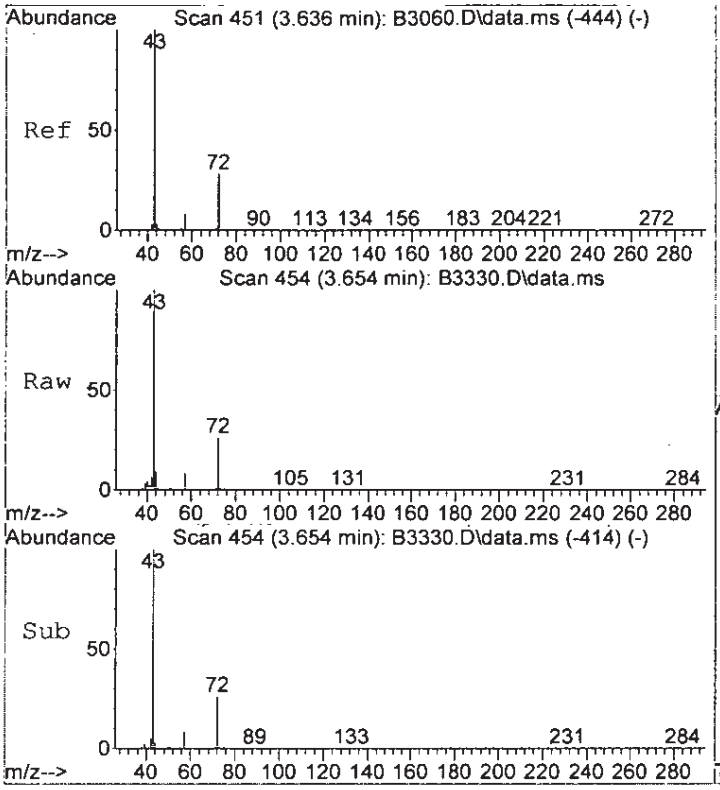


#27
1,1-Diclethane
Concen: 20.60 ug/L
RT: 2.886 min Scan# 328
Delta R.T. -0.000 min
Lab File: B3330.D
Acq: 26 Sep 2015 4:16 pm

Tgt Ion: 63 Resp: 49106

Ion	Ratio	Lower	Upper
63	100		
65	32.1	11.9	51.9
83	13.5	0.0	35.0

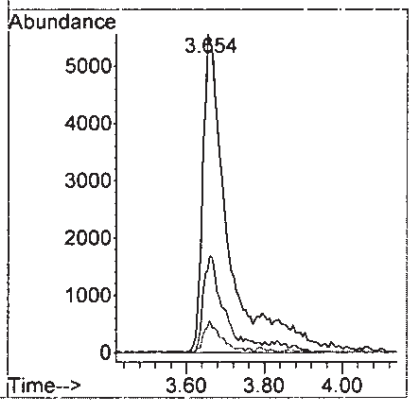


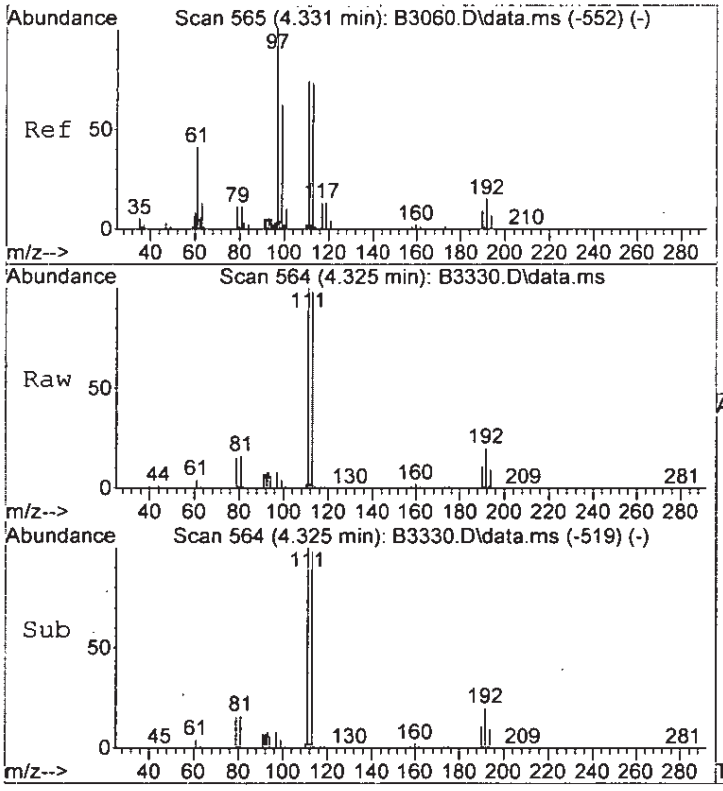


#34
2-Butanone
Concen: 27.27 ug/L m
RT: 3.654 min Scan# 454
Delta R.T. 0.018 min
Lab File: B3330.D
Acq: 26 Sep 2015 4:16 pm

Tgt Ion: 43 Resp: 25514

Ion	Ratio	Lower	Upper
43	100		
72	25.8	12.8	52.8
57	8.2	0.0	28.2

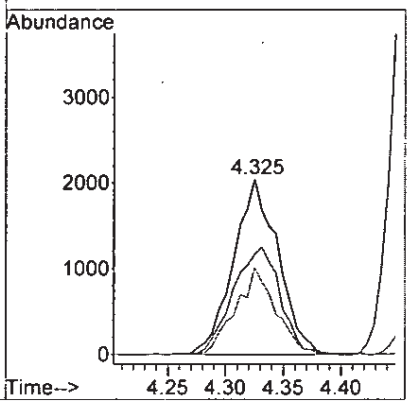


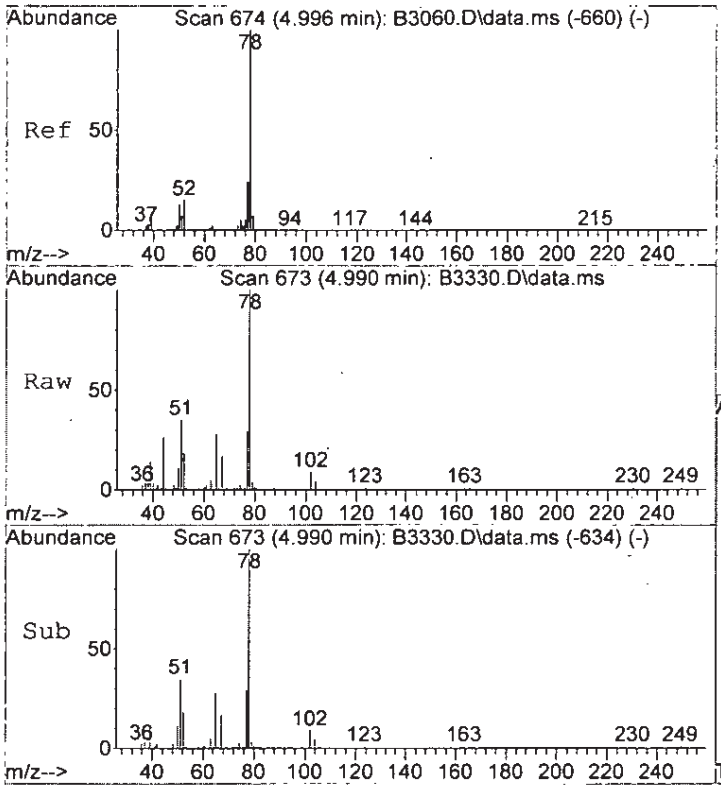


#40
1,1,1-Trichloroethane
Concen: 2.71 ug/L
RT: 4.325 min Scan# 564
Delta R.T. -0.006 min
Lab File: B3330.D
Acq: 26 Sep 2015 4:16 pm

Tgt Ion: 97 Resp: 5426

Ion	Ratio	Lower	Upper
97	100		
99	56.8	42.7	82.7
61	49.5	24.9	64.9

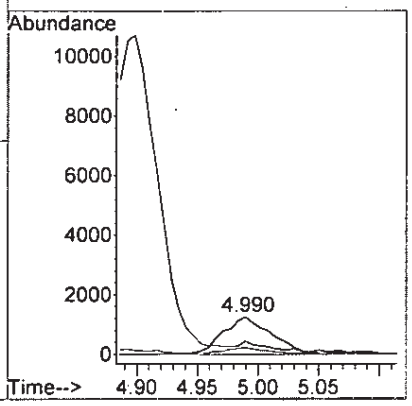


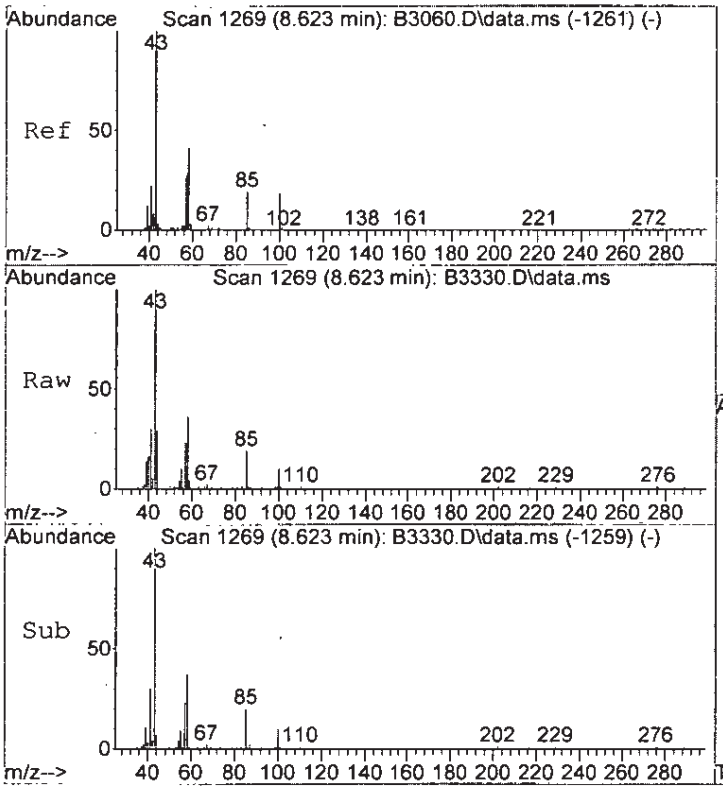


#48
Benzene
Concen: 0.58 ug/L
RT: 4.990 min Scan# 673
Delta R.T. -0.006 min
Lab File: B3330.D
Acq: 26 Sep 2015 4:16 pm

Tgt Ion: 78 Resp: 3448

Ion	Ratio	Lower	Upper
78	100		
51	34.6	0.0	34.2#
52	17.7	0.0	32.8

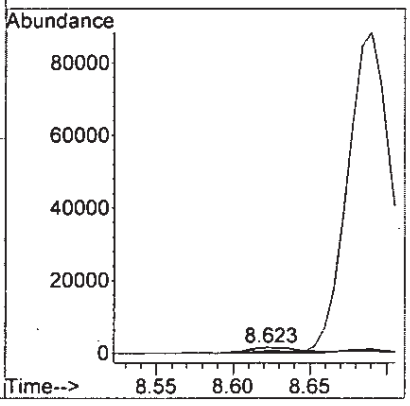


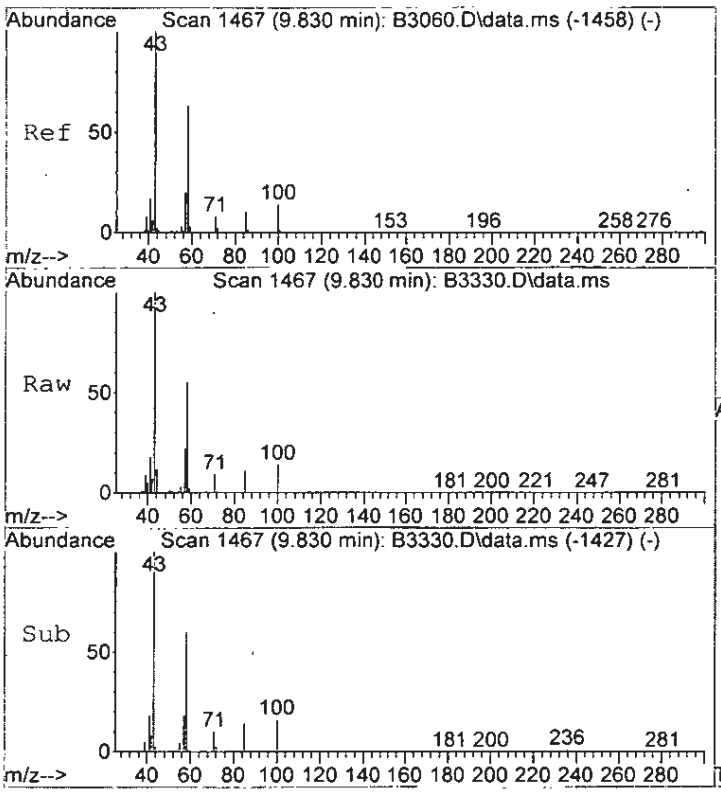


#63
4-Methyl-2-pentanone
Concen: 2.05 ug/L
RT: 8.623 min Scan# 1269
Delta R.T. -0.000 min
Lab File: B3330.D
Acq: 26 Sep 2015 4:16 pm

Tgt Ion: 43 Resp: 3396

Ion	Ratio	Lower	Upper
43	100		
58	36.3	20.1	60.1
100	10.2	0.0	38.1

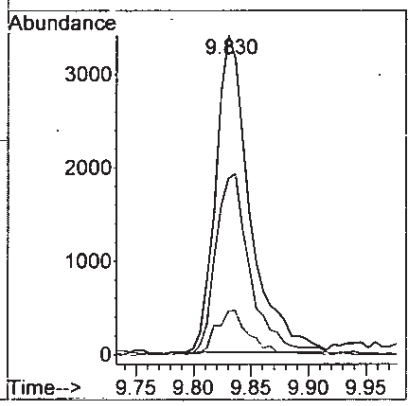




#72
2-Hexanone
Concen: 5.38 ug/L
RT: 9.830 min Scan# 1467
Delta R.T. -0.000 min
Lab File: B3330.D
Acq: 26 Sep 2015 4:16 pm

Tgt Ion: 43 Resp: 7019

Ion	Ratio	Lower	Upper
43	100		
58	55.2	41.3	81.3
100	13.5	0.0	35.4



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1032
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 16:40
Sample Name:	MW-10	**Units:**	µg/L
Lab Code:	R1508047-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3331.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**3.8**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**0.81**	J	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	**1.5**	J	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**18**		5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**3.2**	J	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	9/26/15 16:40	
Dibromofluoromethane	92	89-119	9/26/15 16:40	
Toluene-d8	98	87-121	9/26/15 16:40	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3331.D
Acq On : 26 Sep 2015 4:40 pm
Operator : B Wojtasiewicz
Sample : R1508047-003|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 01 13:11:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	145918	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	226561	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.617	117	201724	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	100553	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.331	113	66355	46.20	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 92.40%			
47) surr1,1,2-dichloroetha...	4.898	65	82803	50.67	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.34%			
64) SURR3,Toluene-d8	8.690	98	275098	49.10	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.20%			
69) SURR2,BFB	11.994	95	103824	48.71	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 97.42%			
Target Compounds						Qvalue
10) Freon 123a	1.710	67	5536	3.41	ug/L	98
14) Freon 113	1.868	101	10434	8.12	ug/L	95
15) Acetone	1.905	43	2425	3.54	ug/L	96
27) 1,1-Diclethane	2.892	63	1989	0.81	ug/L	92
33) cis-1,2-Dichloroethene	3.587	96	5034	3.16	ug/L	85
34) 2-Butanone	3.642	43	368	0.38	ug/L #	65
40) 1,1,1-Trichloroethane	4.331	97	7763	3.79	ug/L	94
53) Trichloroethene	6.367	130	27181	17.65	ug/L	95
71) Tetrachloroethene	9.556	164	1746	1.46	ug/L	92

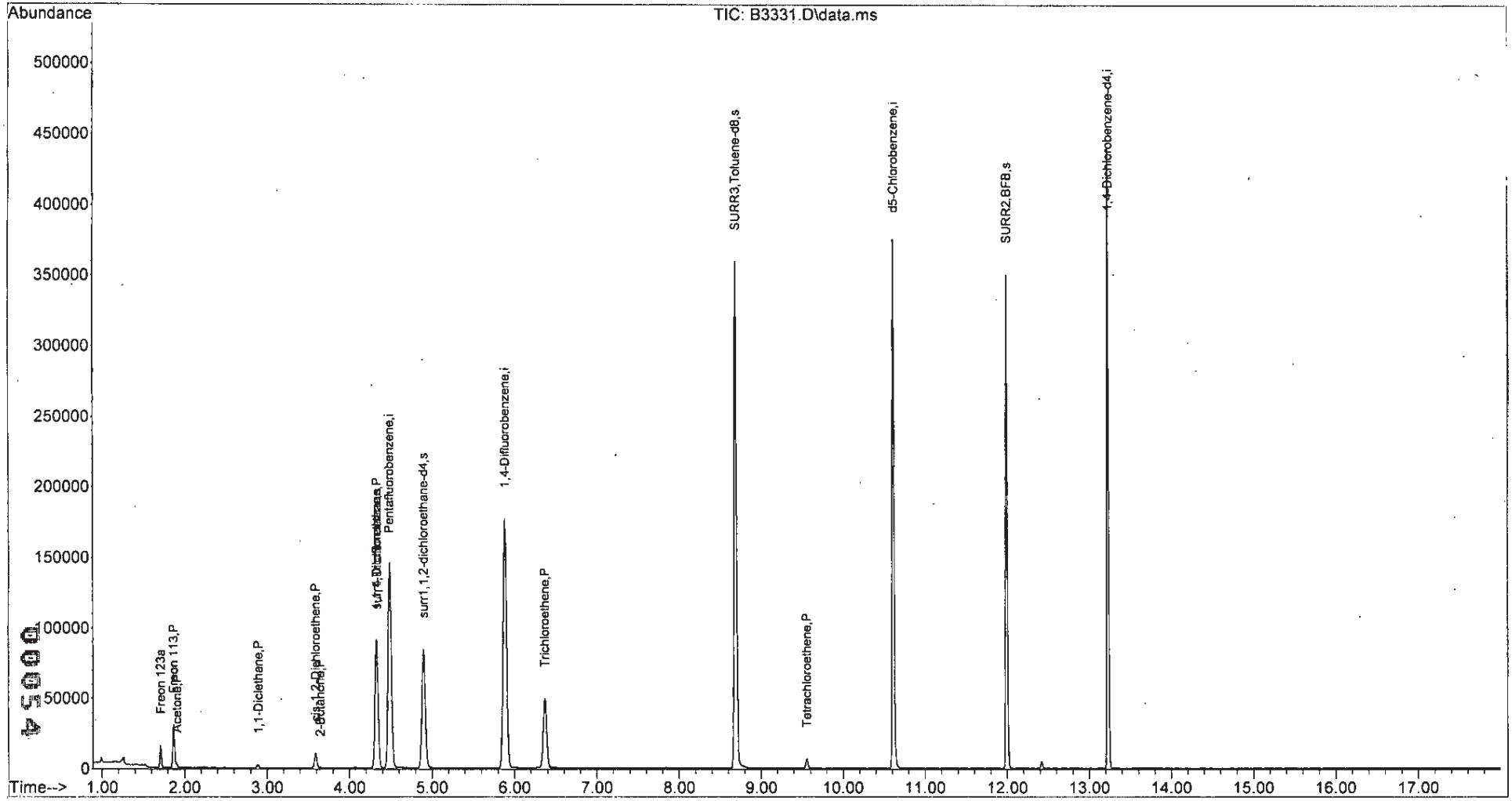
(#) = qualifier out of range (m) = manual integration (+) = signals summed

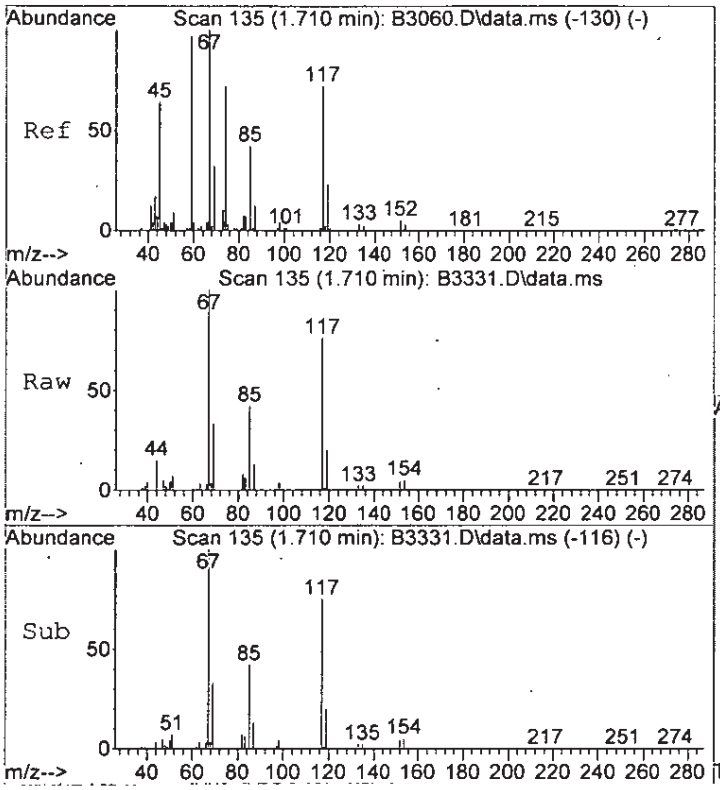
BA 10/2

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3331.D
Acq On : 26 Sep 2015 4:40 pm
Operator : B Wojtasiewicz
Sample : R1508047-003|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 01 13:11:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

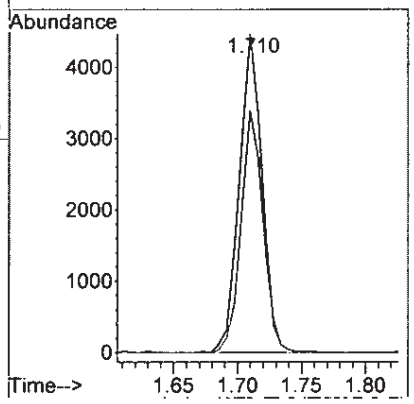


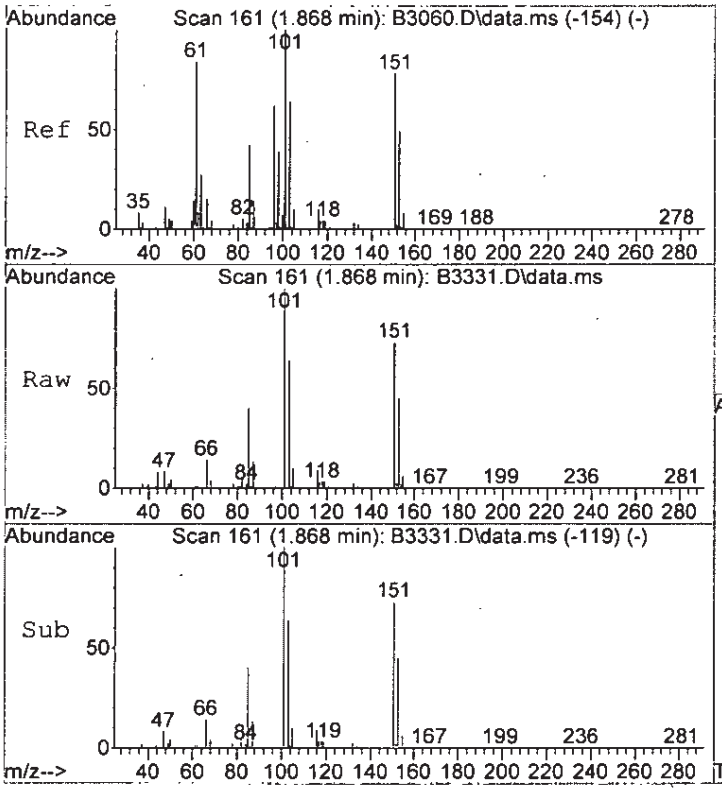


#10
Freon 123a
Concen: 3.41 ug/L
RT: 1.710 min Scan# 135
Delta R.T. -0.000 min
Lab File: B3331.D
Acq: 26 Sep 2015 4:40 pm

Tgt Ion: 67 Resp: 5536

Ion	Ratio	Lower	Upper
67	100		
117	75.9	54.5	94.5

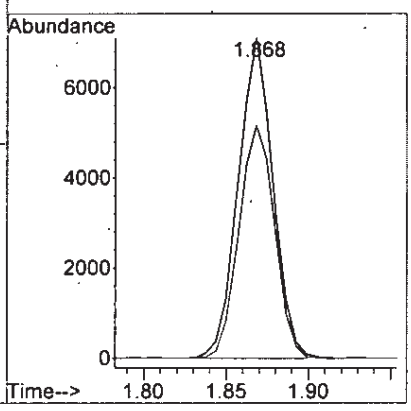


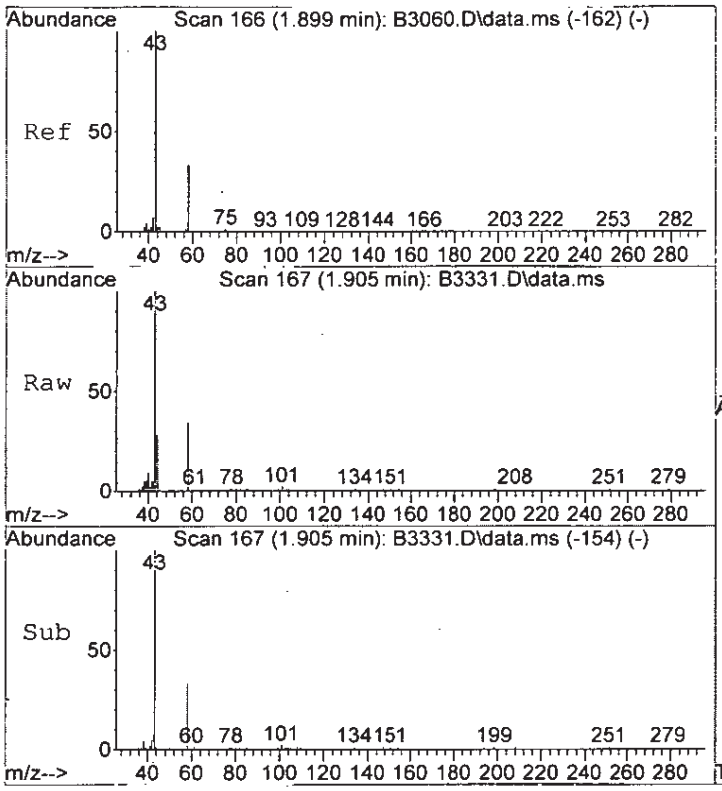


#14
Freon 113
Concen: 8.12 ug/L
RT: 1.868 min Scan# 161
Delta R.T. -0.000 min
Lab File: B3331.D
Acq: 26 Sep 2015 4:40 pm

Tgt Ion:101 Resp: 10434

Ion	Ratio	Lower	Upper
101	100		
151	72.6	56.9	96.9

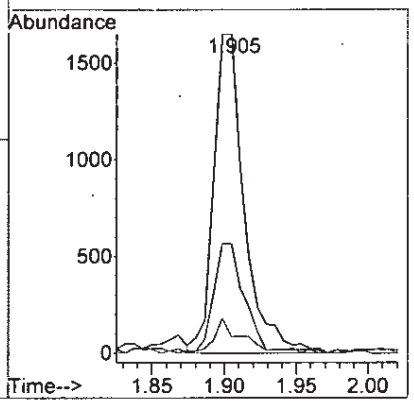


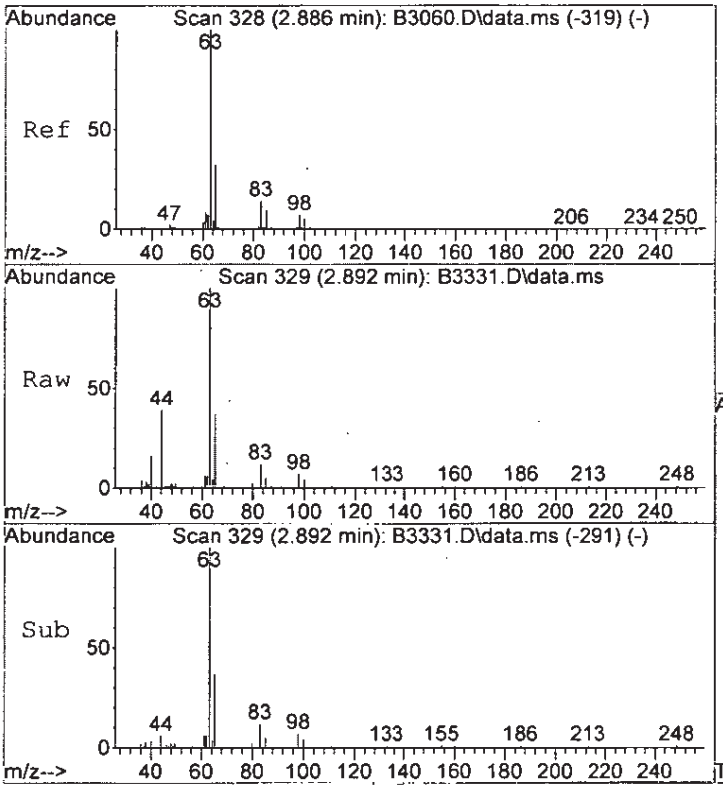


#15
Acetone
Concen: 3.54 ug/L
RT: 1.905 min Scan# 167
Delta R.T. 0.007 min
Lab File: B3331.D
Acq: 26 Sep 2015 4:40 pm

Tgt Ion: 43 Resp: 2425

Ion	Ratio	Lower	Upper
43	100		
58	34.3	15.5	55.5
42	5.2	0.0	29.2

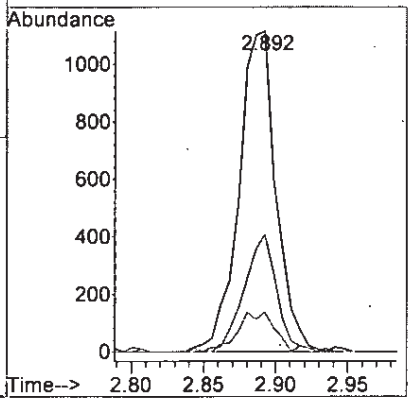


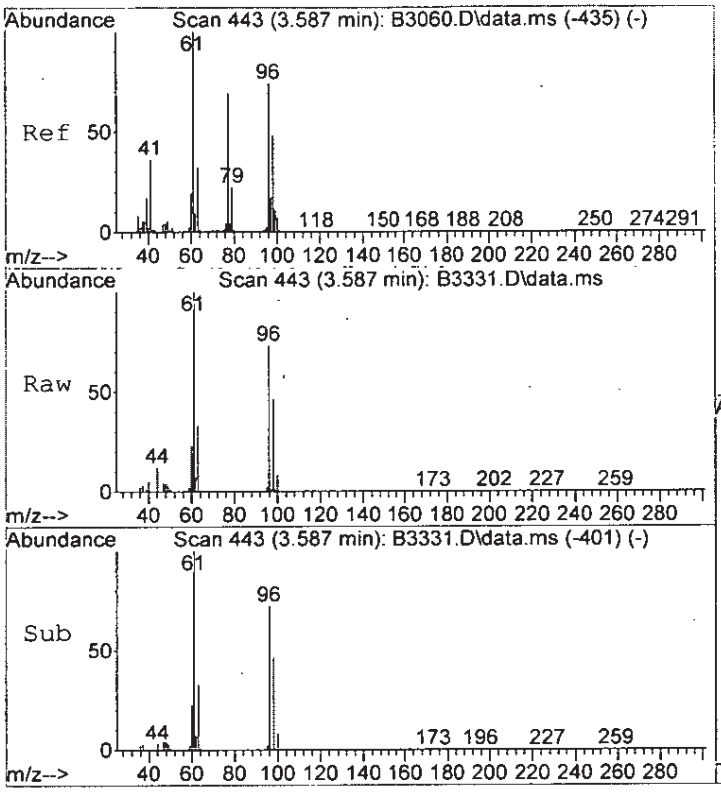


#27
1,1-Diclethane
Concen: 0.81 ug/L
RT: 2.892 min Scan# 329
Delta R.T. 0.006 min
Lab File: B3331.D
Acq: 26 Sep 2015 4:40 pm

Tgt Ion: 63 Resp: 1989

Ion	Ratio	Lower	Upper
63	100		
65	36.6	11.9	51.9
83	12.2	0.0	35.0

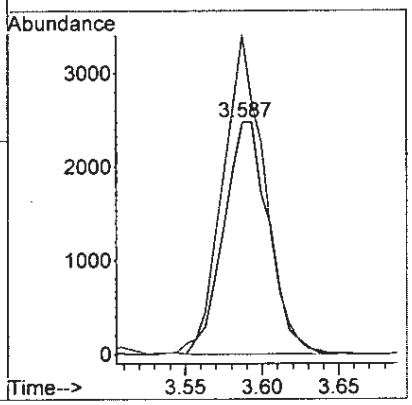


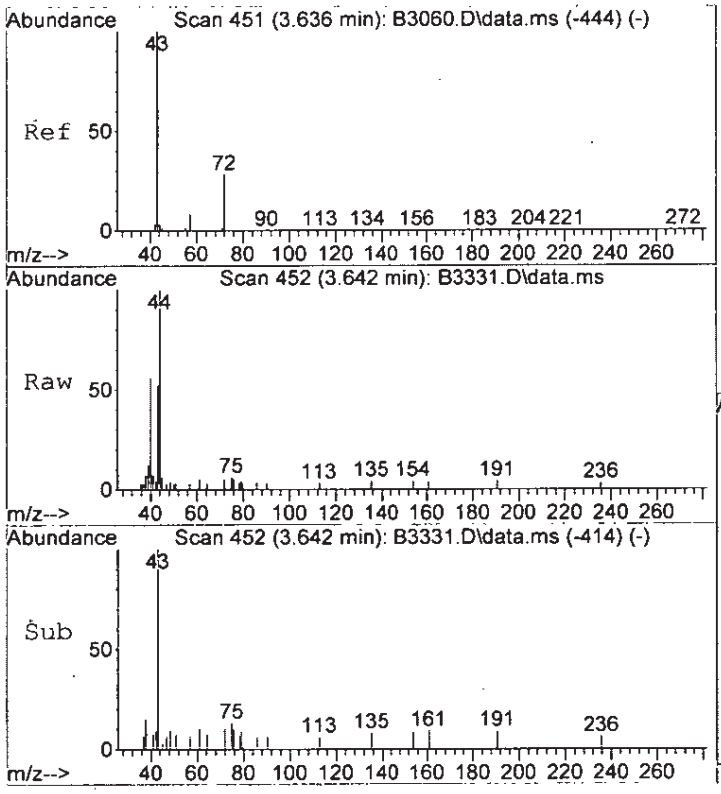


#33
cis-1,2-Dichloroethene
Concen: 3.16 ug/L
RT: 3.587 min Scan# 443
Delta R.T. -0.000 min
Lab File: B3331.D
Acq: 26 Sep 2015 4:40 pm

Tgt Ion: 96 Resp: 5034

Ion	Ratio	Lower	Upper
96	100		
61	137.4	101.0	141.0

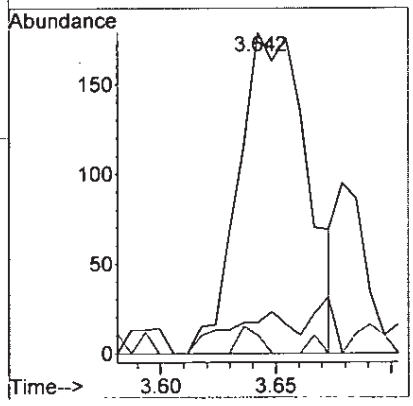


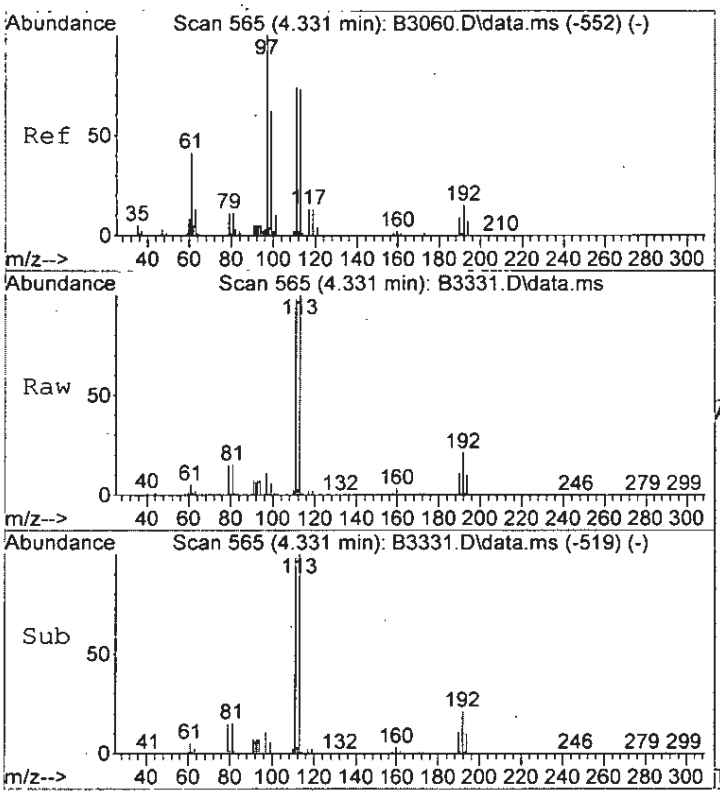


#34
2-Butanone
Concen: 0.38 ug/L
RT: 3.642 min Scan# 452
Delta R.T. 0.006 min
Lab File: B3331.D
Acq: 26 Sep 2015 4:40 pm

Tgt Ion: 43 Resp: 368

Ion	Ratio	Lower	Upper
43	100		
72	9.5	12.8	52.8#
57	5.6	0.0	28.2

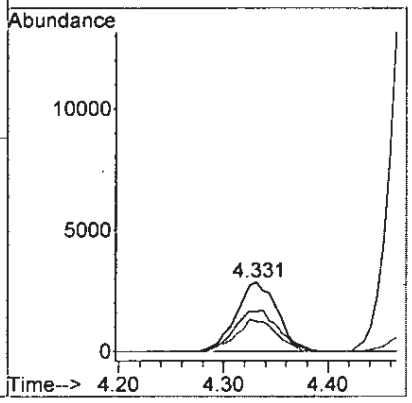


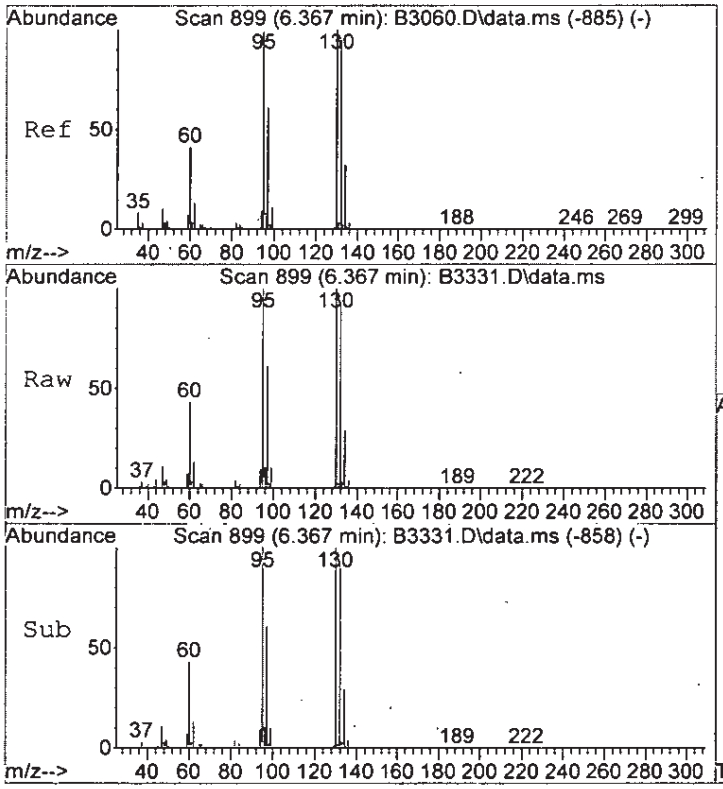


#40
1,1,1-Trichloroethane
Concen: 3.79 ug/L
RT: 4.331 min Scan# 565
Delta R.T. -0.000 min
Lab File: B3331.D
Acq: 26 Sep 2015 4:40 pm

Tgt Ion: 97 Resp: 7763

Ion	Ratio	Lower	Upper
97	100		
99	56.7	42.7	82.7
61	43.0	24.9	64.9

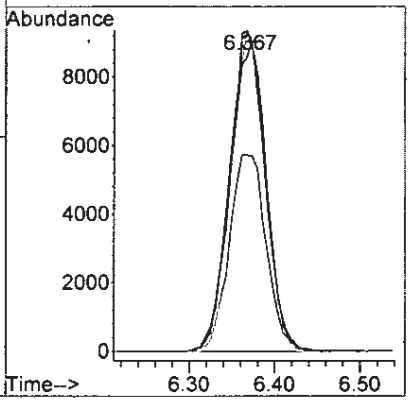


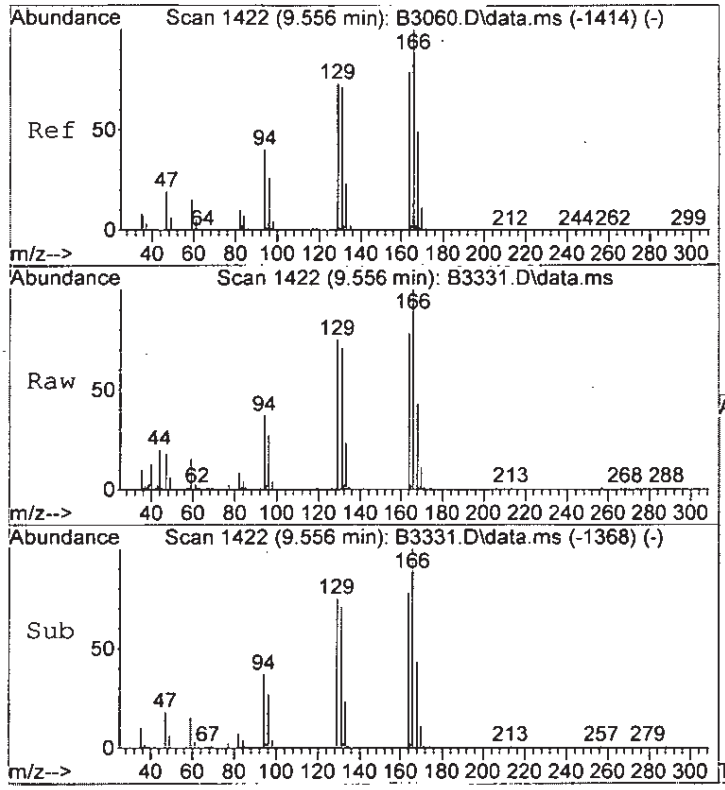


#53
Trichloroethene
Concen: 17.65 ug/L
RT: 6.367 min Scan# 899
Delta R.T. -0.000 min
Lab File: B3331.D
Acq: 26 Sep 2015 4:40 pm

Tgt Ion:130 Resp: 27181

Ion	Ratio	Lower	Upper
130	100		
132	91.8	76.3	116.3
95	99.9	71.7	111.7
97	61.1	41.2	81.2

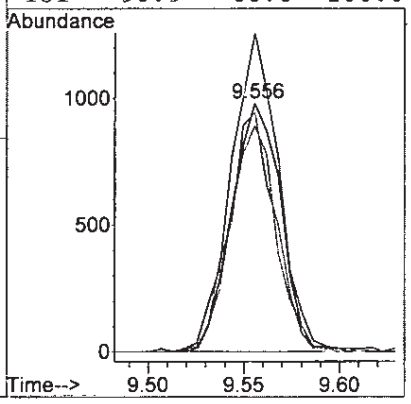




#71
Tetrachloroethene
Concen: 1.46 ug/L
RT: 9.556 min Scan# 1422
Delta R.T. -0.000 min
Lab File: B3331.D
Acq: 26 Sep 2015 4:40 pm

Tgt Ion:164 Resp: 1746

Ion	Ratio	Lower	Upper
164	100		
166	128.2	104.3	144.3
129	96.1	65.1	105.1
131	90.9	60.8	100.8



Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1145
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 19:54
Sample Name:	MW-11	**Units:**	µg/L
Lab Code:	R1508047-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3339.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**0.92**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	9/26/15 19:54	
Dibromofluoromethane	93	89-119	9/26/15 19:54	
Toluene-d8	97	87-121	9/26/15 19:54	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3339.D
Acq On : 26 Sep 2015 7:54 pm
Operator : B Wojtasiewicz
Sample : R1508047-004|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 01 13:37:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	156763	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	243955	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.617	117	216780	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	102889	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.331	113	71994	46.56	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 93.12%			
47) surr1,1,2-dichloroetha...	4.898	65	88140	50.09	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.18%			
64) SURR3,Toluene-d8	8.690	98	293499	48.65	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.30%			
69) SURR2,BFB	11.994	95	109726	47.81	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.62%			
Target Compounds						Qvalue
14) Freon 113	1.868	101	436	0.32	ug/L	93
15) Acetone	1.941	43	194746m	264.63	ug/L	
34) 2-Butanone	3.667	43	24298	23.61	ug/L	90
40) 1,1,1-Trichloroethane	4.325	97	2021	0.92	ug/L	92
72) 2-Hexanone	9.836	43	799	0.59	ug/L	84

NT

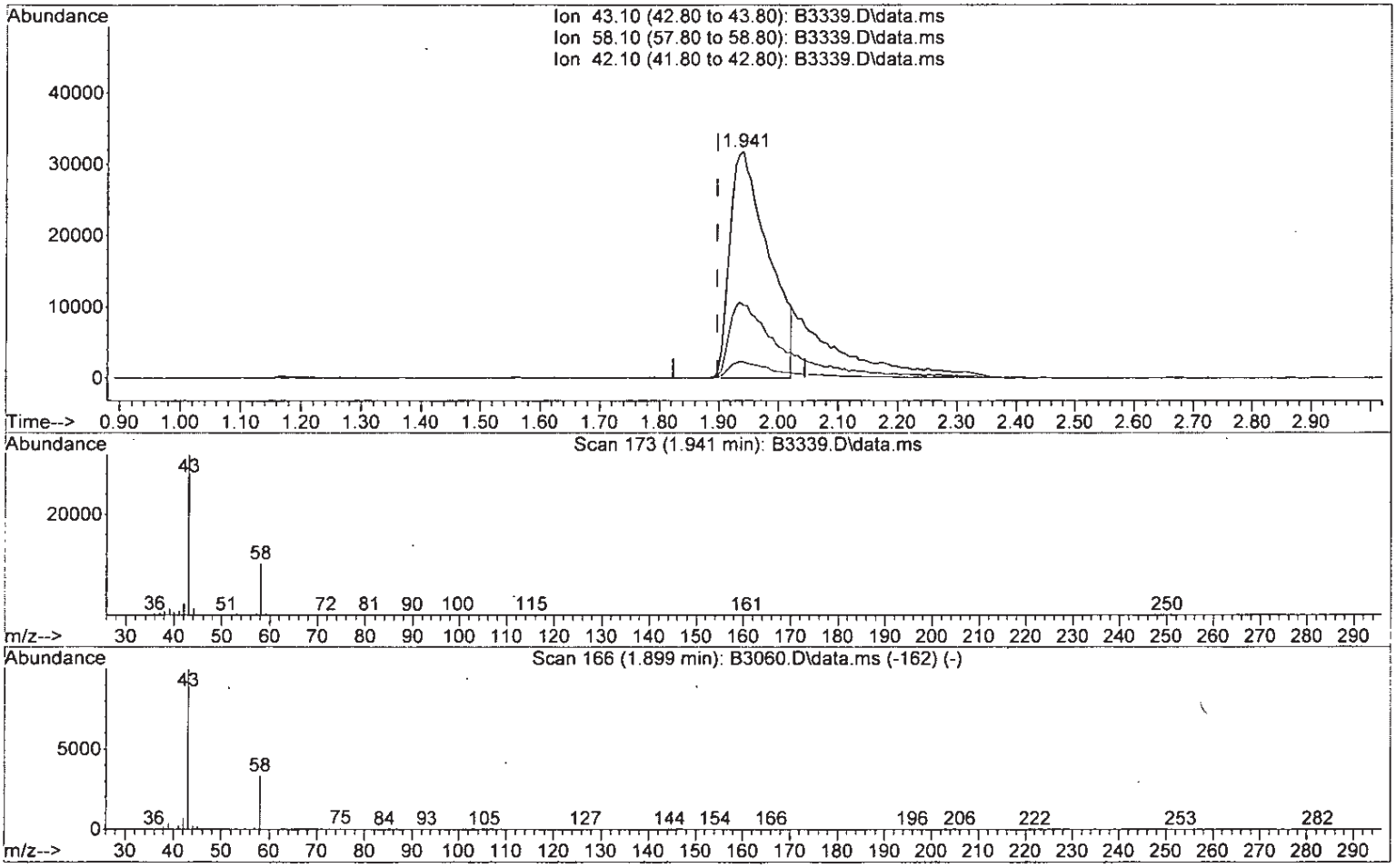
BA 10/1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3339.D
Acq On : 26 Sep 2015 7:54 pm
Operator : B Wojtasiewicz
Sample : R1508047-004|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 28 06:37:31 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3339.D\data.ms

(15) Acetone (P)

1.941min (+0.043) 192.84 ug/L

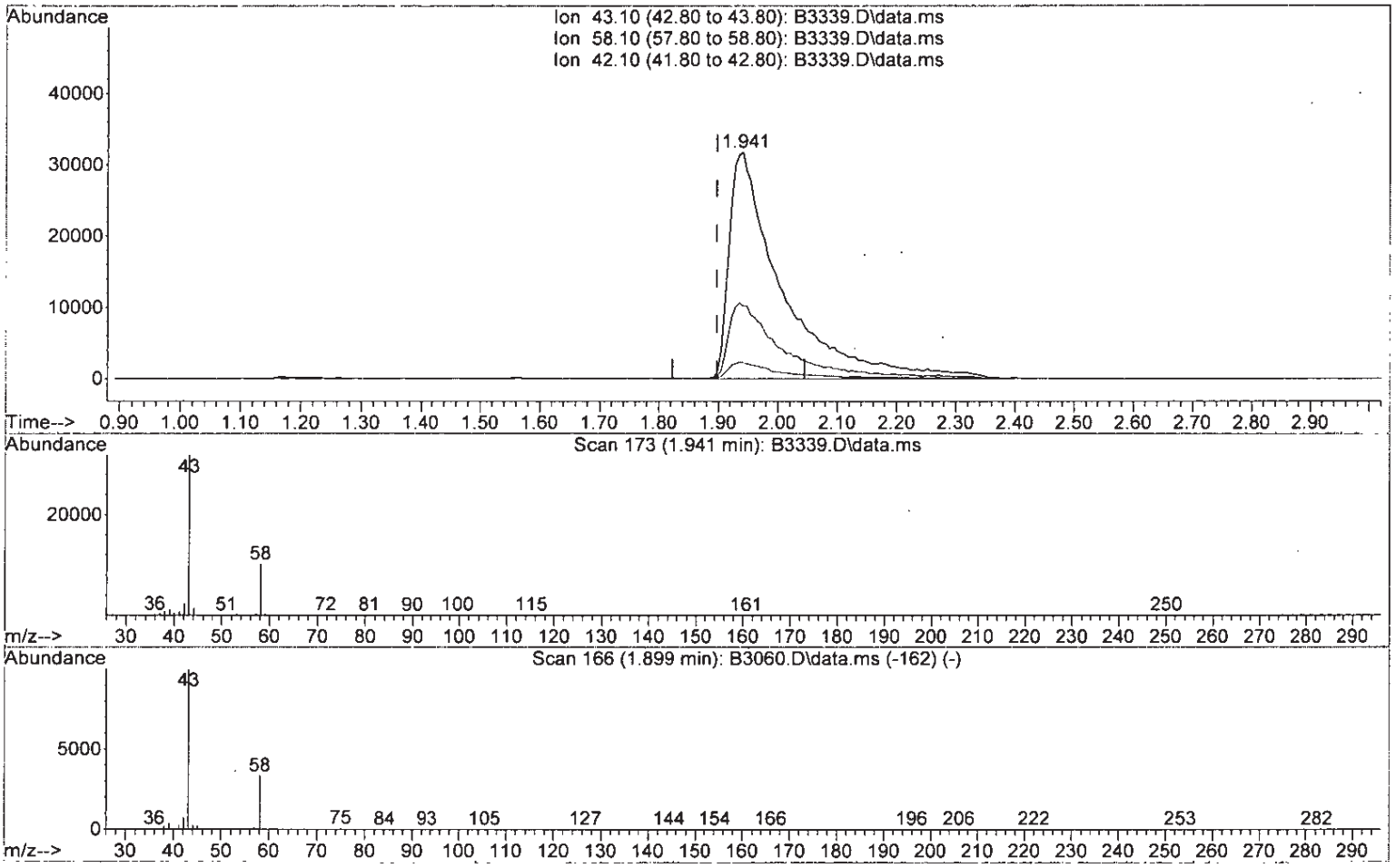
response 141913

Ion	Exp%	Act%
43.10	100	100
58.10	35.50	31.98
42.10	9.20	7.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3339.D
Acq On : 26 Sep 2015 7:54 pm
Operator : B Wojtasiewicz
Sample : R1508047-004|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 28 06:37:31 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3339.D\data.ms

(15) Acetone (P)

1.941min (+0.043) 264.63 ug/L m

response 194746

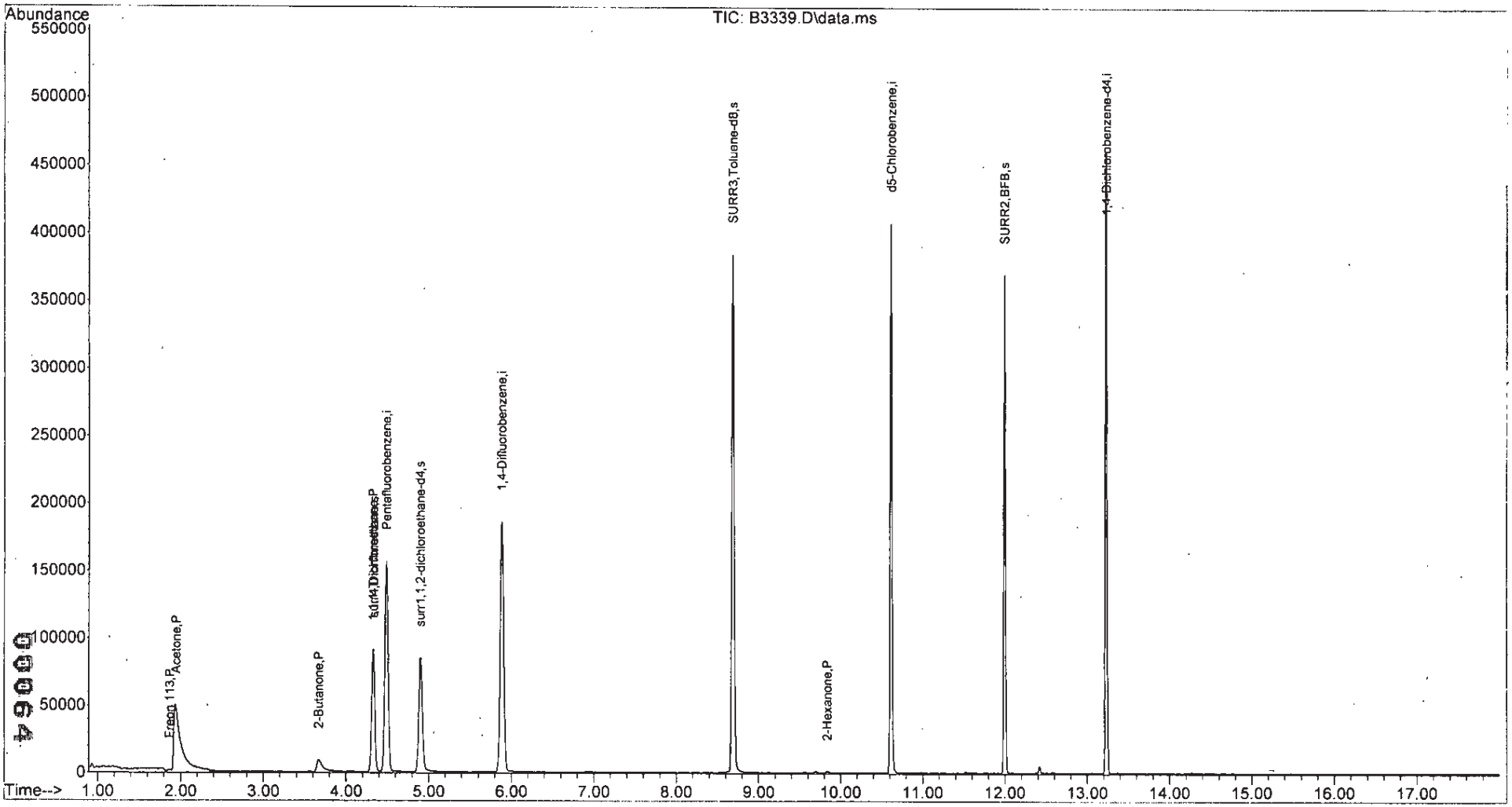
Ion	Exp%	Act%
43.10	100	100
58.10	35.50	31.98
42.10	9.20	7.05
0.00	0.00	0.00

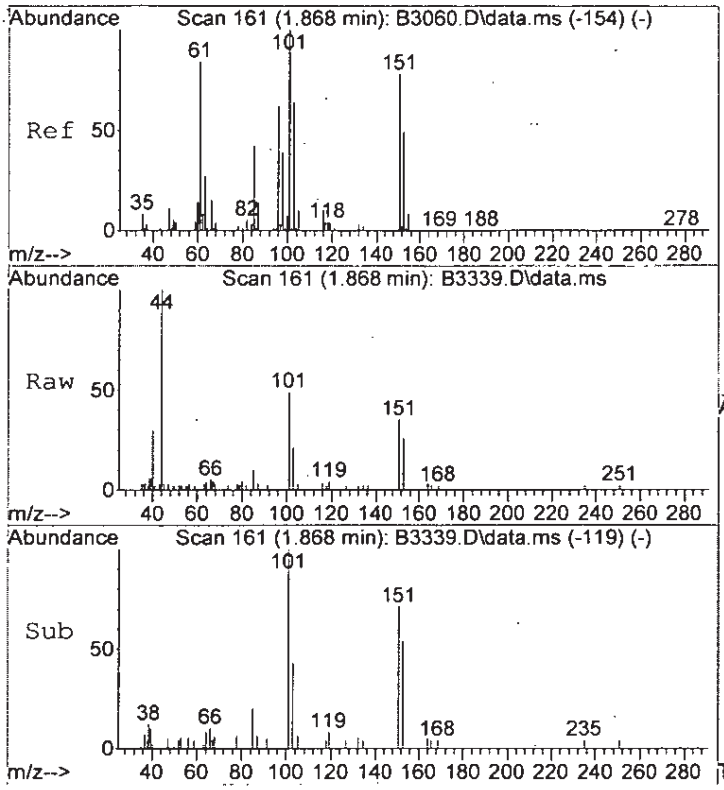
A
BA10%
(BC)
FJ
10/2/15

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3339.D
Acq On : 26 Sep 2015 7:54 pm
Operator : B Wojtasiewicz
Sample : R1508047-004|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 01 13:37:49 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

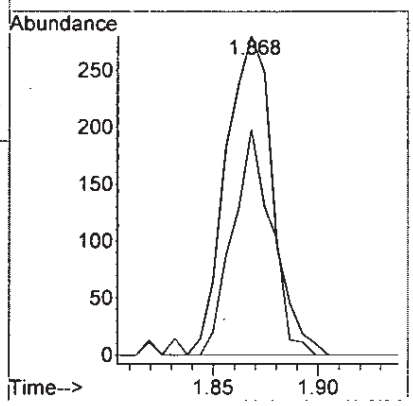


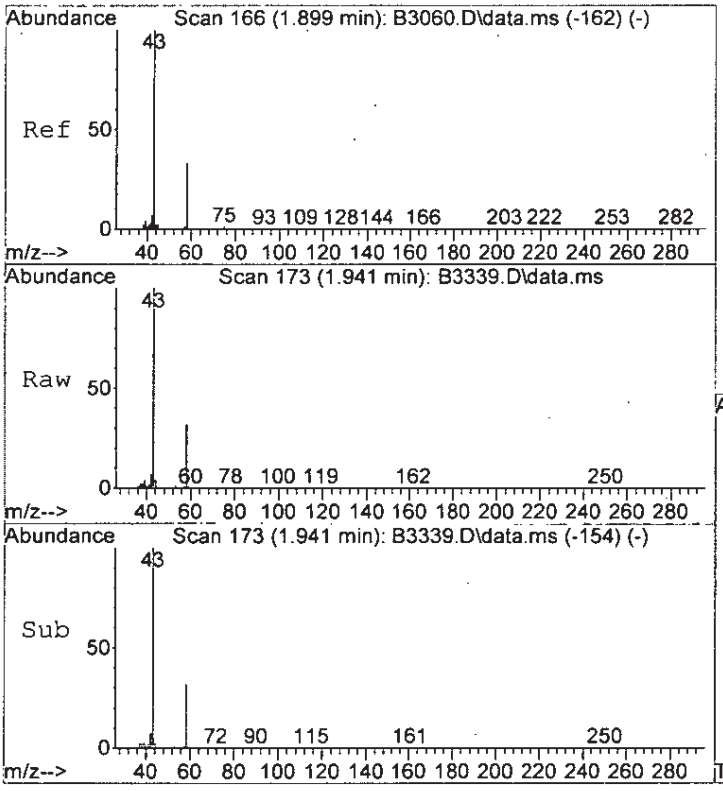


#14
Freon 113
Concen: 0.32 ug/L
RT: 1.868 min Scan# 161
Delta R.T. -0.000 min
Lab File: B3339.D
Acq: 26 Sep 2015 7:54 pm

Tgt Ion:101 Resp: 436

Ion	Ratio	Lower	Upper
101	100		
151	70.7	56.9	96.9

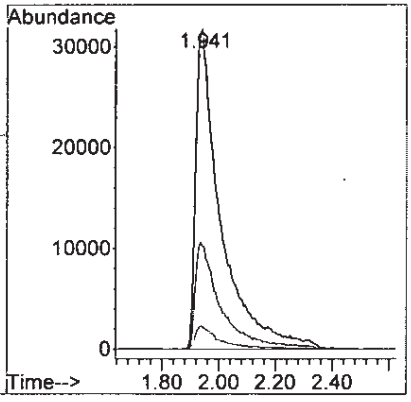


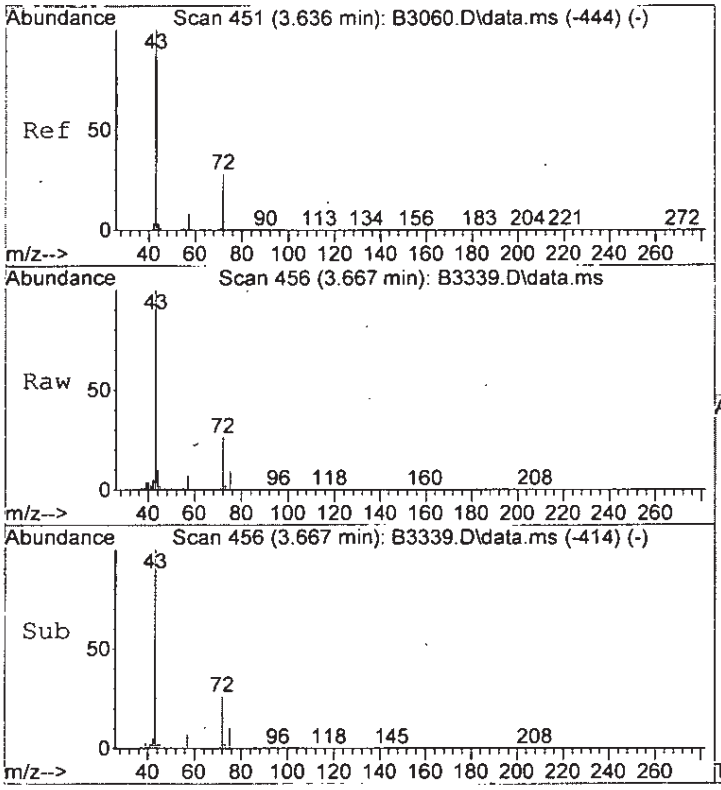


#15
Acetone
Concen: 264.63 ug/L m
RT: 1.941 min Scan# 173
Delta R.T. 0.043 min
Lab File: B3339.D
Acq: 26 Sep 2015 7:54 pm

Tgt Ion: 43 Resp: 194746

Ion	Ratio	Lower	Upper
43	100		
58	32.0	15.5	55.5
42	7.1	0.0	29.2

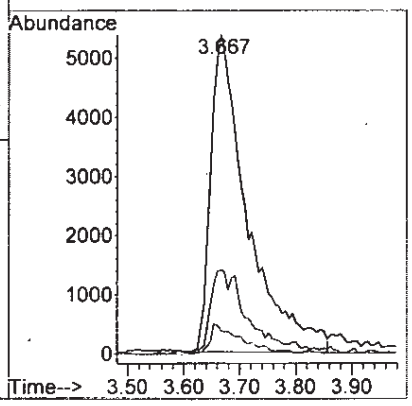


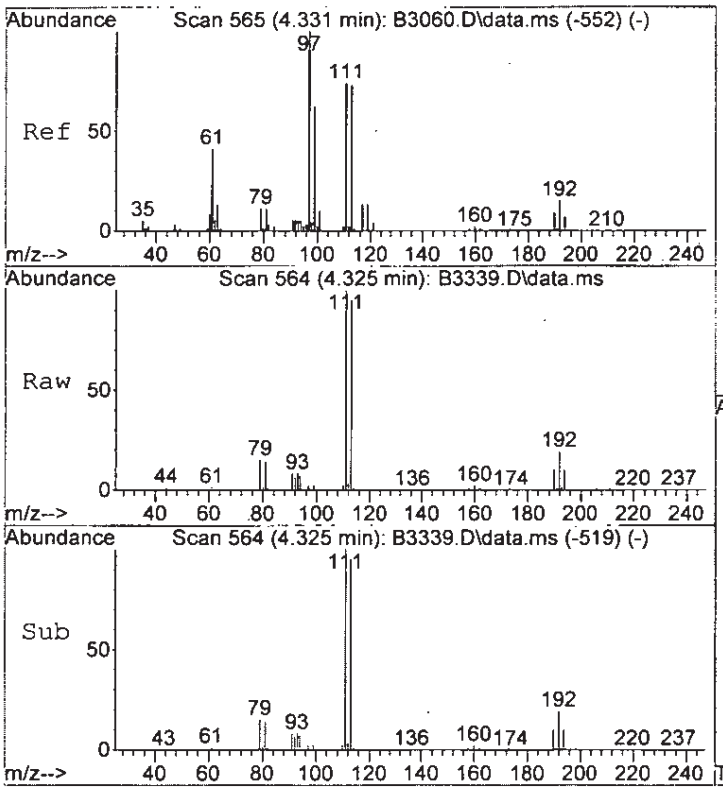


#34
2-Butanone
Concen: 23.61 ug/L
RT: 3.667 min Scan# 456
Delta R.T. 0.030 min
Lab File: B3339.D
Acq: 26 Sep 2015 7:54 pm

Tgt Ion: 43 Resp: 24298

Ion	Ratio	Lower	Upper
43	100		
72	26.3	12.8	52.8
57	7.2	0.0	28.2

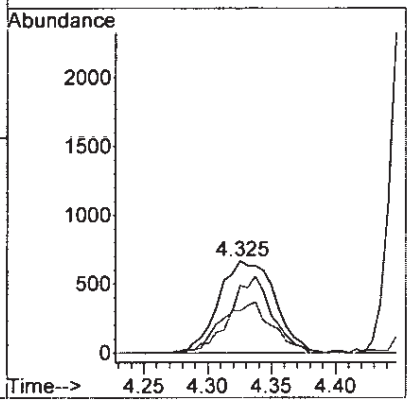


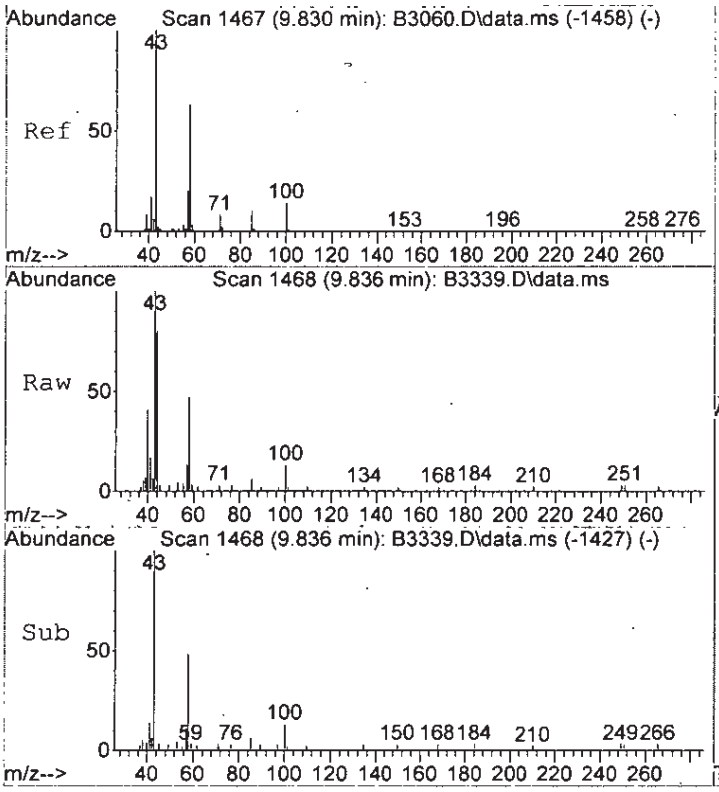


#40
1,1,1-Trichloroethane
Concen: 0.92 ug/L
RT: 4.325 min Scan# 564
Delta R.T. -0.006 min
Lab File: B3339.D
Acq: 26 Sep 2015 7:54 pm

Tgt Ion: 97 Resp: 2021

Ion	Ratio	Lower	Upper
97	100		
99	73.0	42.7	82.7
61	45.3	24.9	64.9

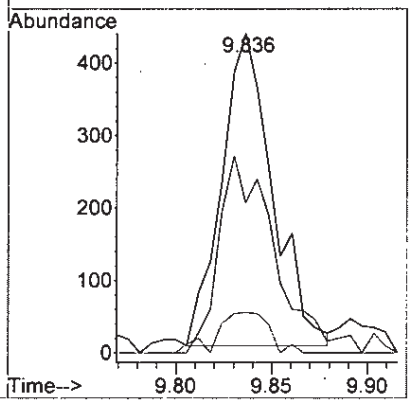




#72
2-Hexanone
Concen: 0.59 ug/L
RT: 9.836 min Scan# 1468
Delta R.T. 0.006 min
Lab File: B3339.D
Acq: 26 Sep 2015 7:54 pm

Tgt Ion: 43 Resp: 799

Ion	Ratio	Lower	Upper
43	100		
58	46.9	41.3	81.3
100	12.7	0.0	35.4



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1209
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 17:04
Sample Name:	MW-16	**Units:**	µg/L
Lab Code:	R1508047-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3332.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**7.3**		5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**53**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	9/26/15 17:04	
Dibromofluoromethane	95	89-119	9/26/15 17:04	
Toluene-d8	99	87-121	9/26/15 17:04	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3332.D
Acq On : 26 Sep 2015 5:04 pm
Operator : B Wojtasiewicz
Sample : R1508047-005|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 01 13:14:29 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	150678	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	232419	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.617	117	206285	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	102888	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.331	113	69776	47.36	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 94.72%			
47) surr1,1,2-dichloroetha...	4.898	65	87251	52.05	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.10%			
64) SURR3,Toluene-d8	8.690	98	284771	49.54	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.08%			
69) SURR2,BFB	11.994	95	107025	48.95	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 97.90%			
Target Compounds						Qvalue
6) Chloroethane	1.350	64	2727	2.69	ug/L	94
10) Freon 123a	1.710	67	25376	15.12	ug/L	92
14) Freon 113	1.868	101	9914	7.48	ug/L	97
15) Acetone	1.941	43	90260m	127.60	ug/L	
18) Carbon Disulfide	2.015	76	5399	1.51	ug/L	95
27) 1,1-Diclethane	2.886	63	133283	52.88	ug/L	99
34) 2-Butanone	3.667	43	9681m	9.79	ug/L	
40) 1,1,1-Trichloroethane	4.331	97	15501	7.33	ug/L	94
48) Benzene	4.990	78	2066	0.33	ug/L	78
72) 2-Hexanone	9.836	43	2219	1.71	ug/L	80

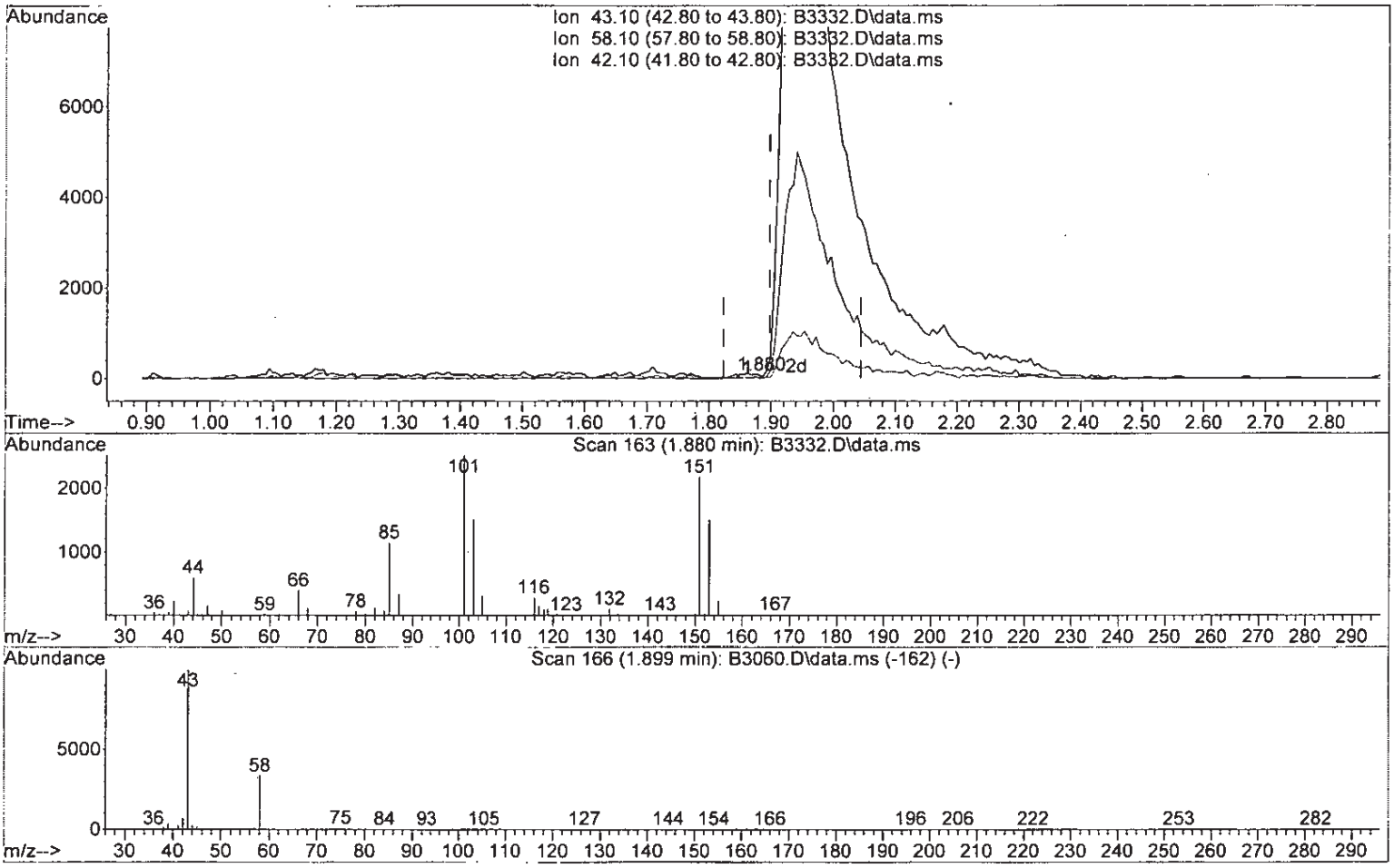
(#) = qualifier out of range (m) = manual integration (+) = signals summed

BA10/2

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3332.D
Acq On : 26 Sep 2015 5:04 pm
Operator : B Wojtasiewicz
Sample : R1508047-005|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 28 06:36:28 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3332.D\data.ms

(15) Acetone (P)

1.880min (-0.018) 0.02 ug/L m

response 14

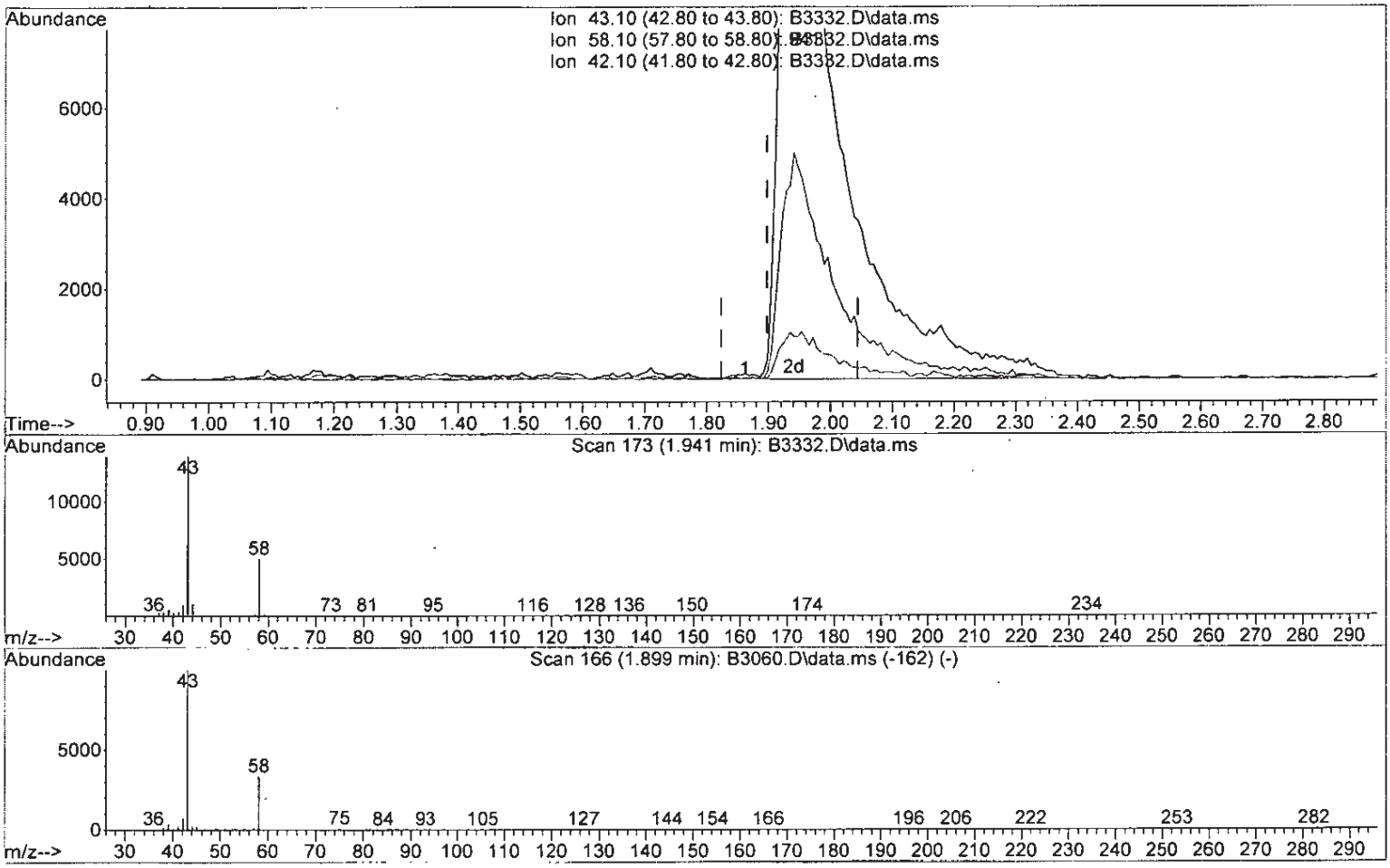
Ion	Exp%	Act%
43.10	100	100
58.10	35.50	15.19#
42.10	9.20	15.19
0.00	0.00	0.00

B

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3332.D
Acq On : 26 Sep 2015 5:04 pm
Operator : B Wojtasiewicz
Sample : R1508047-005|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 28 06:36:28 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3332.D\data.ms

(15) Acetone (P)

1.941min (+0.043) 127.60 ug/L m

response 90260

Ion	Exp%	Act%
43.10	100	100
58.10	35.50	35.77
42.10	9.20	6.76
0.00	0.00	0.00

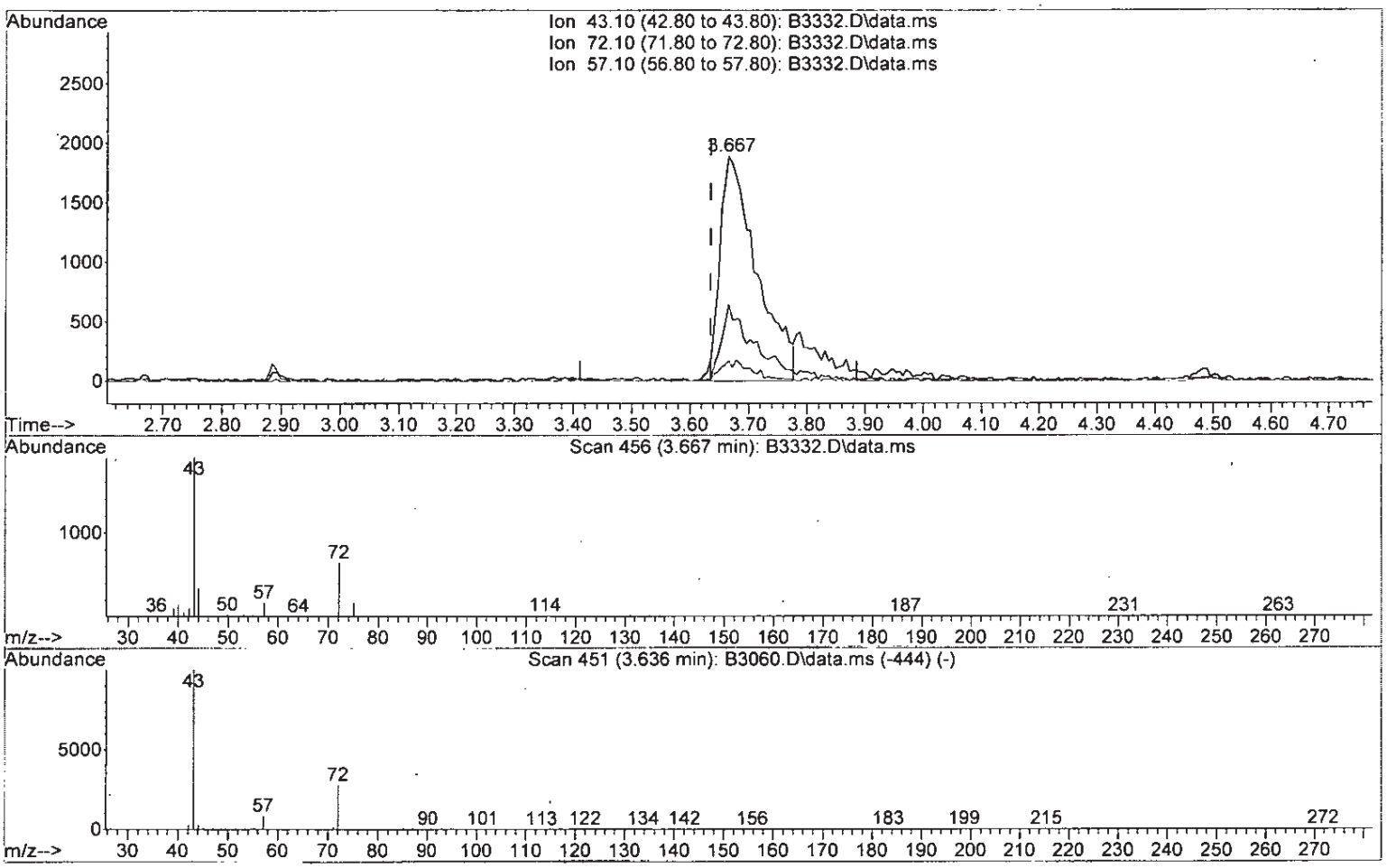
A BA 10/1, FJ 10/2/15

(BC)

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3332.D
Acq On : 26 Sep 2015 5:04 pm
Operator : B Wojtasiewicz
Sample : R1508047-005|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 28 06:36:28 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3332.D\data.ms

(34) 2-Butanone (P)

3.667min (+0.030) 8.36 ug/L

response 8266

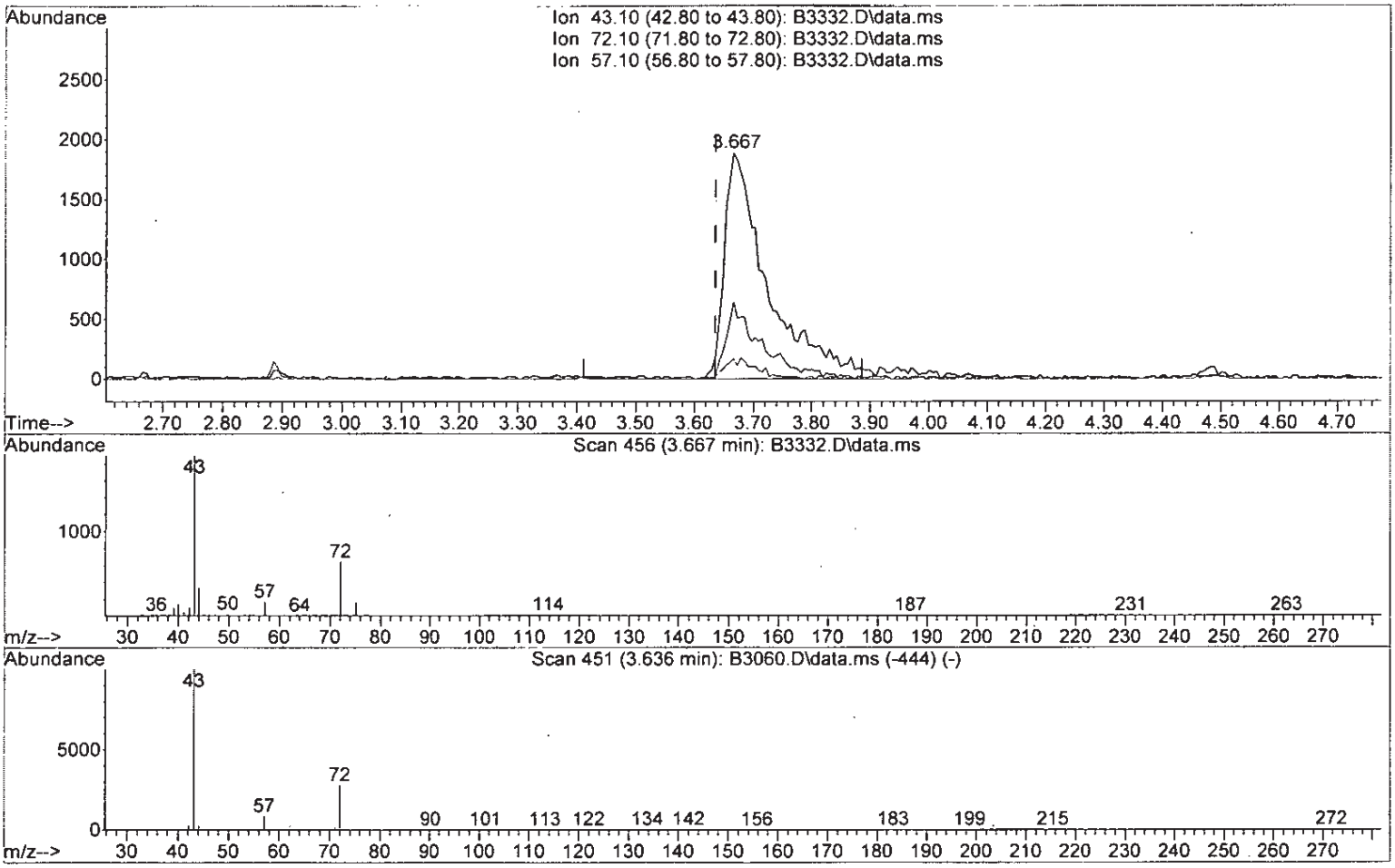
Ion	Exp%	Act%
43.10	100	100
72.10	32.80	34.02
57.10	8.20	8.99
0.00	0.00	0.00

B

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3332.D
Acq On : 26 Sep 2015 5:04 pm
Operator : B Wojtasiewicz
Sample : R1508047-005|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 28 06:36:28 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3332.D\data.ms

(34) 2-Butanone (P)

3.667min (+0.030) 9.79 ug/L m

response 9681

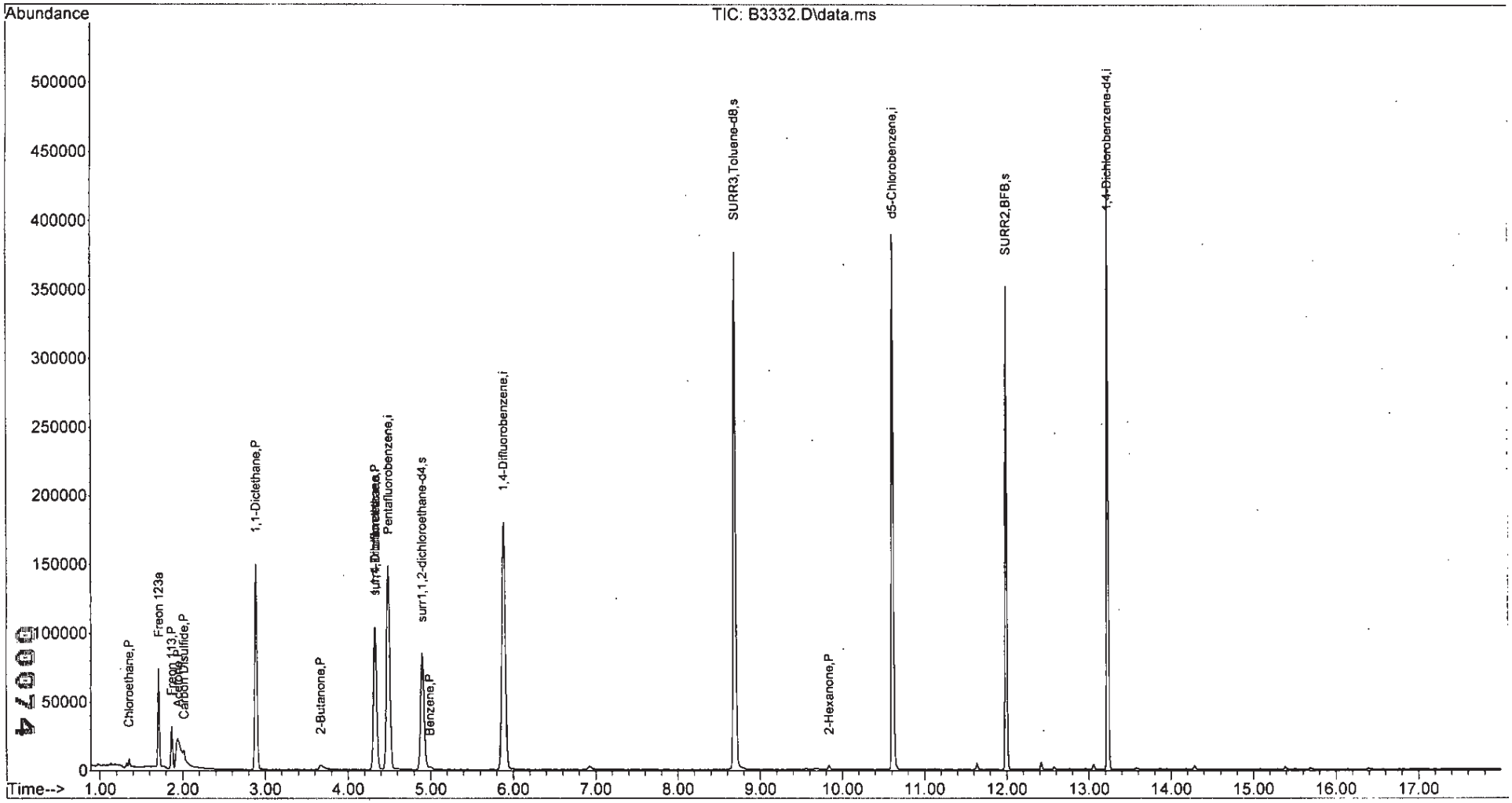
Ion	Exp%	Act%
43.10	100	100
72.10	32.80	34.02
57.10	8.20	8.99
0.00	0.00	0.00

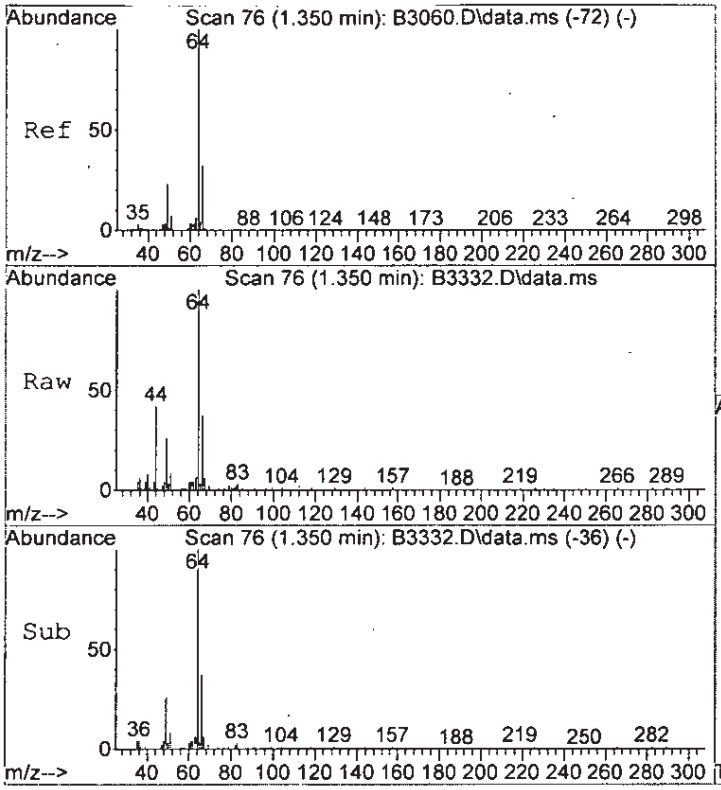
FW 1-12-15

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3332.D
Acq On : 26 Sep 2015 5:04 pm
Operator : B Wojtasiewicz
Sample : R1508047-005|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 01 13:14:29 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

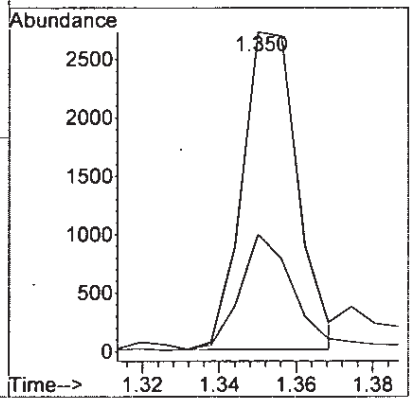


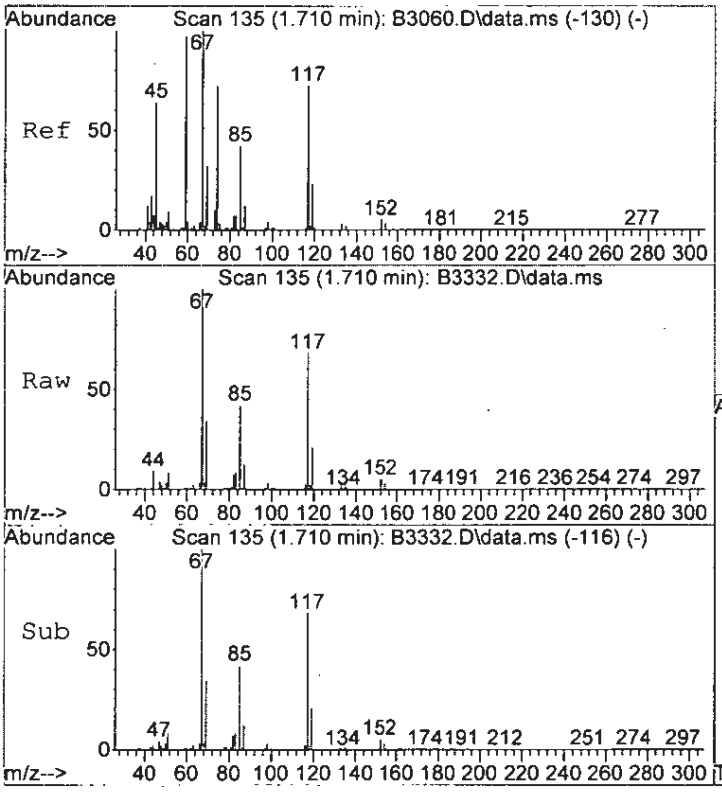


#6
Chloroethane
Concen: 2.69 ug/L
RT: 1.350 min Scan# 76
Delta R.T. -0.000 min
Lab File: B3332.D
Acq: 26 Sep 2015 5:04 pm

Tgt Ion: 64 Resp: 2727

Ion	Ratio	Lower	Upper
64	100		
66	36.6	13.4	53.4

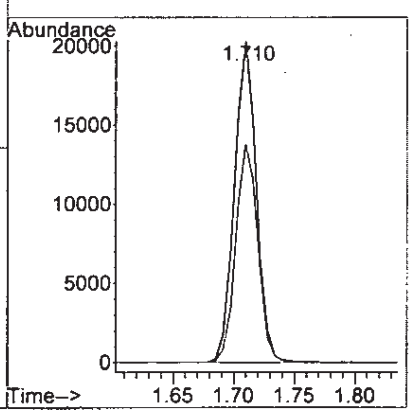


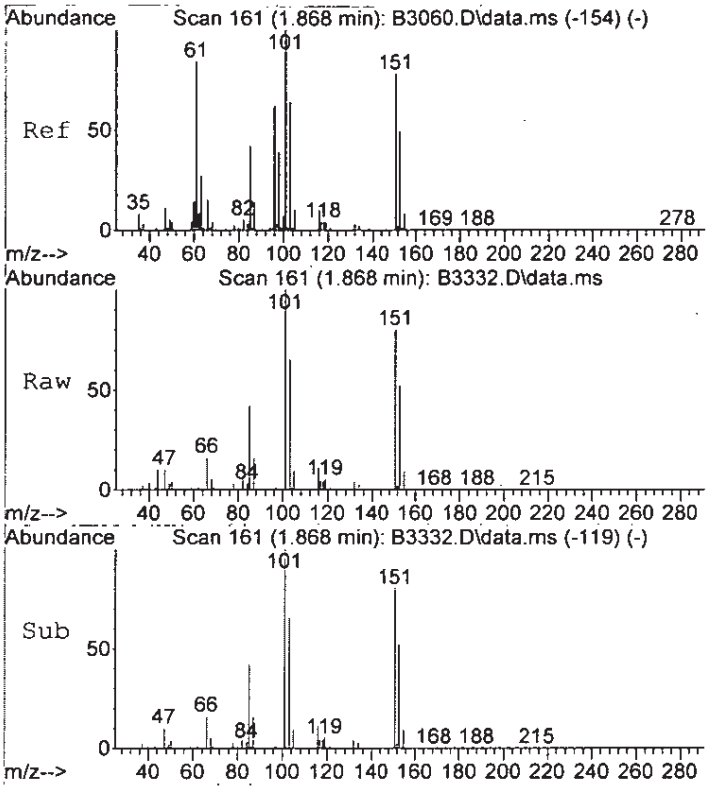


#10
Freon 123a
Concen: 15.12 ug/L
RT: 1.710 min Scan# 135
Delta R.T. -0.000 min
Lab File: B3332.D
Acq: 26 Sep 2015 5:04 pm

Tgt Ion: 67 Resp: 25376

Ion	Ratio	Lower	Upper
67	100		
117	68.1	54.5	94.5

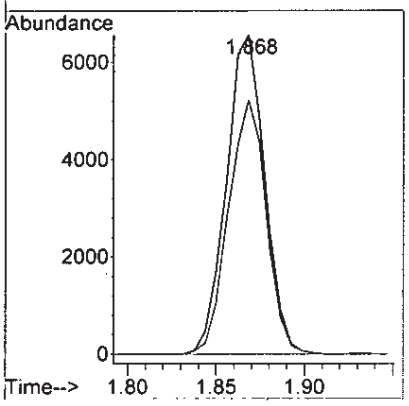


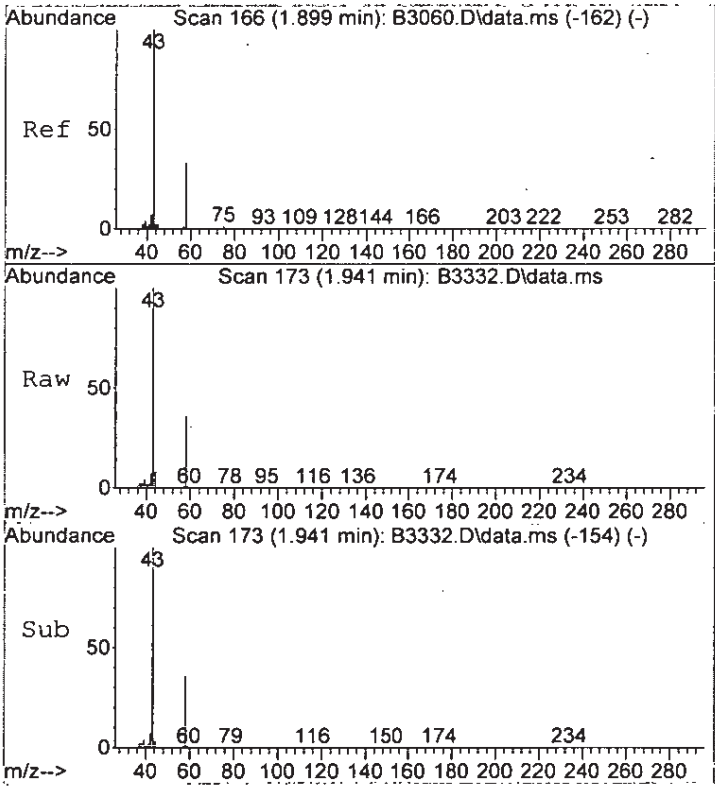


#14
Freon 113
Concen: 7.48 ug/L
RT: 1.868 min Scan# 161
Delta R.T. -0.000 min
Lab File: B3332.D
Acq: 26 Sep 2015 5:04 pm

Tgt Ion:101 Resp: 9914

Ion	Ratio	Lower	Upper
101	100		
151	79.8	56.9	96.9

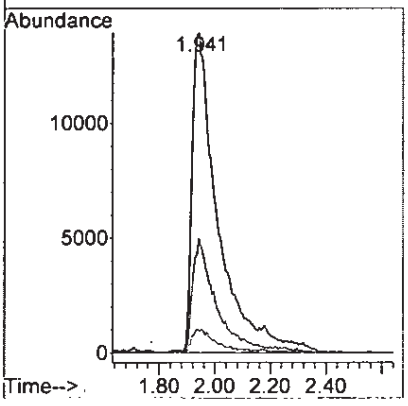


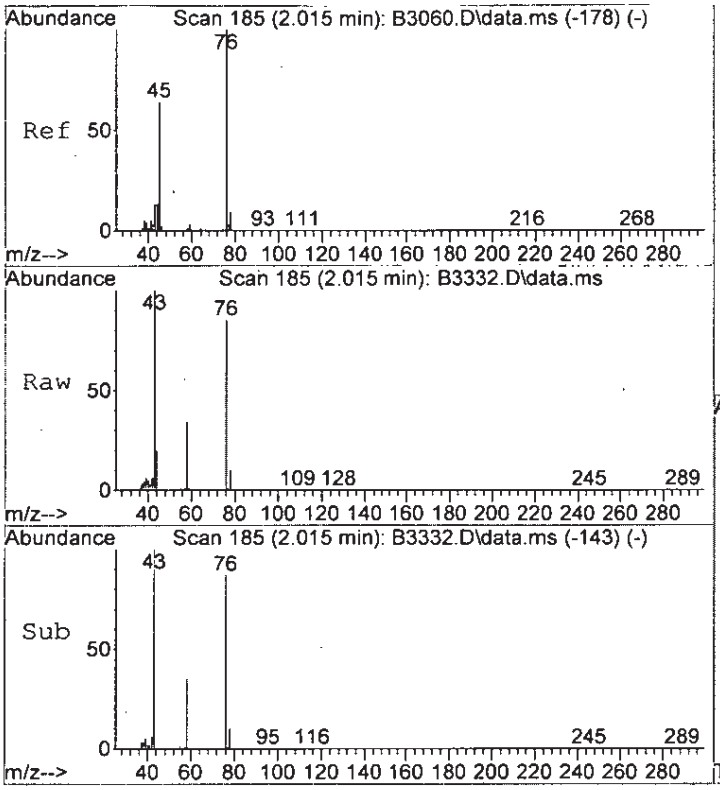


#15
Acetone
Concen: 127.60 ug/L m
RT: 1.941 min Scan# 173
Delta R.T. 0.043 min
Lab File: B3332.D
Acq: 26 Sep 2015 5:04 pm

Tgt Ion: 43 Resp: 90260

Ion	Ratio	Lower	Upper
43	100		
58	35.8	15.5	55.5
42	6.8	0.0	29.2

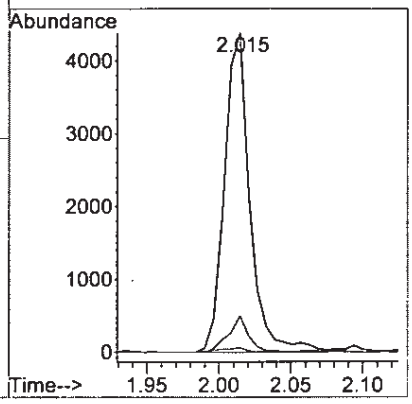


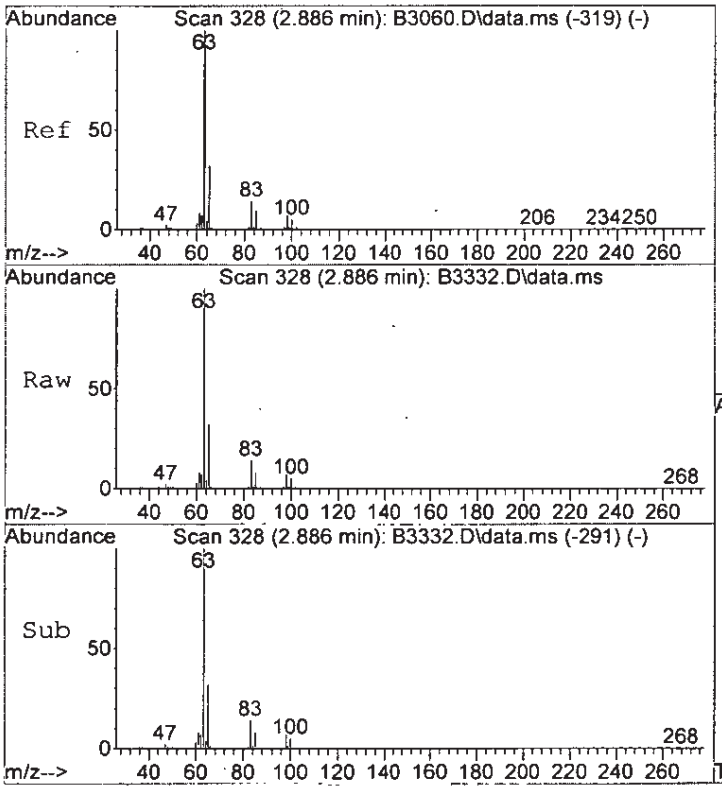


#18
Carbon Disulfide
Concen: 1.51 ug/L
RT: 2.015 min Scan# 185
Delta R.T. -0.000 min
Lab File: B3332.D
Acq: 26 Sep 2015 5:04 pm

Tgt Ion: 76 Resp: 5399

Ion	Ratio	Lower	Upper
76	100		
78	11.4	0.0	29.3
77	1.4	0.0	22.7

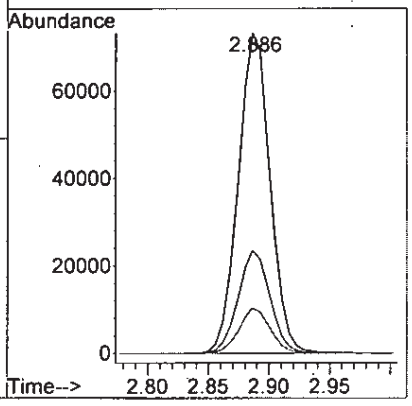


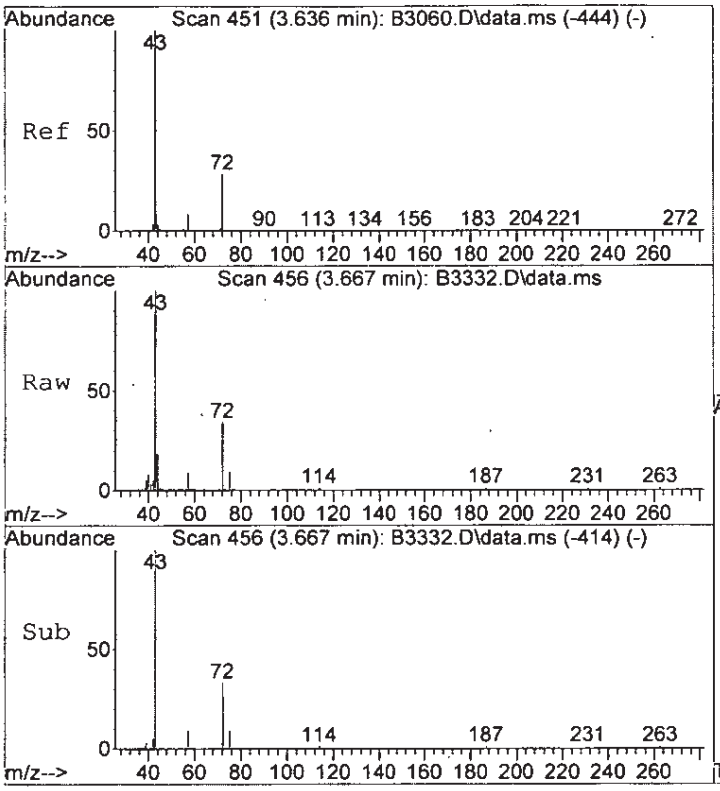


#27
1,1-Diclethane
Concen: 52.88 ug/L
RT: 2.886 min Scan# 328
Delta R.T. -0.000 min
Lab File: B3332.D
Acq: 26 Sep 2015 5:04 pm

Tgt Ion: 63 Resp: 133283

Ion	Ratio	Lower	Upper
63	100		
65	32.0	11.9	51.9
83	14.0	0.0	35.0

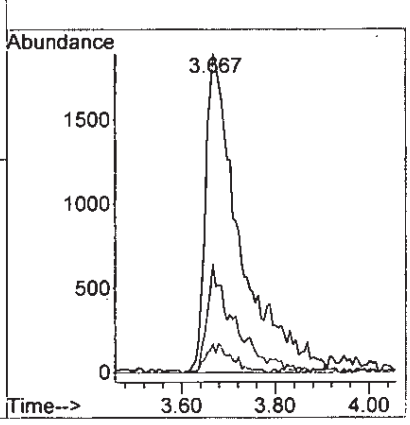


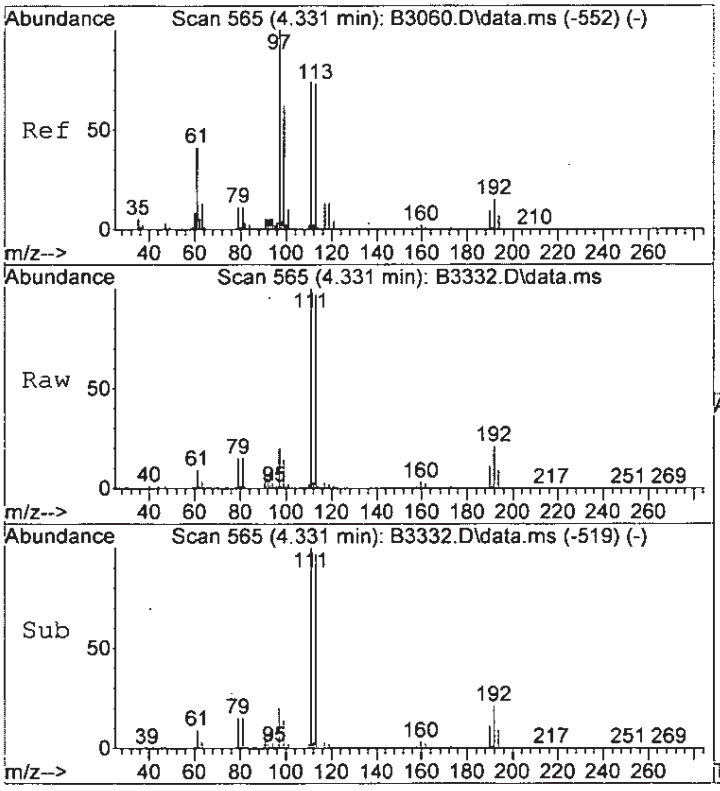


#34
2-Butanone
Concen: 9.79 ug/L m
RT: 3.667 min Scan# 456
Delta R.T. 0.030 min
Lab File: B3332.D
Acq: 26 Sep 2015 5:04 pm

Tgt Ion: 43 Resp: 9681

Ion	Ratio	Lower	Upper
43	100		
72	34.0	12.8	52.8
57	9.0	0.0	28.2

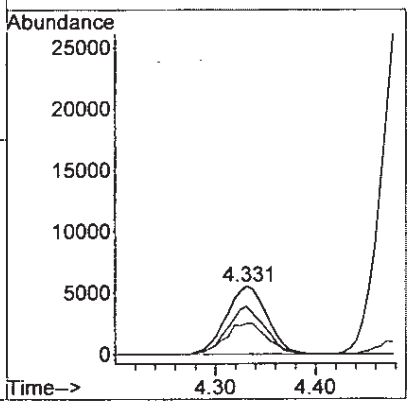


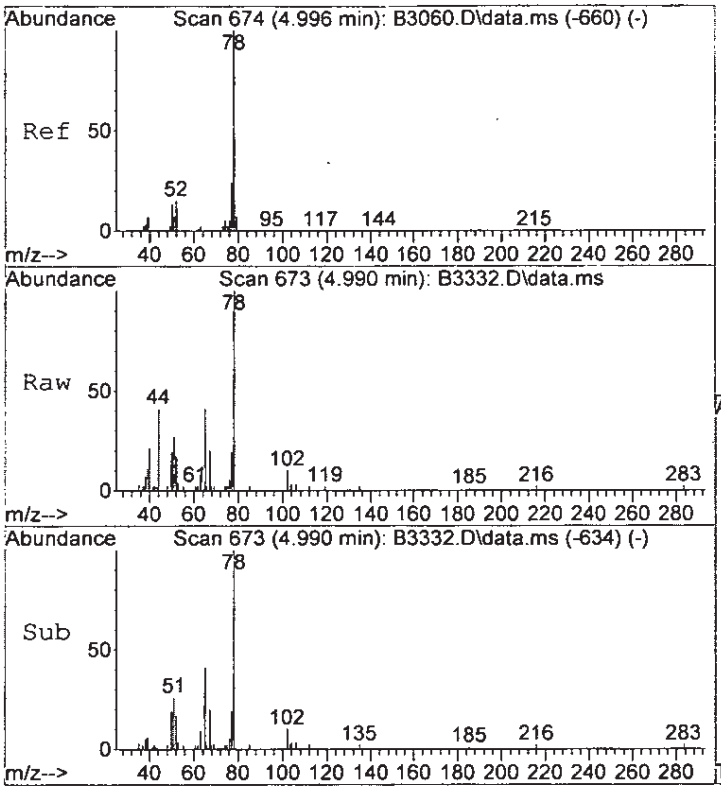


#40
1,1,1-Trichloroethane
Concen: 7.33 ug/L
RT: 4.331 min Scan# 565
Delta R.T. -0.000 min
Lab File: B3332.D
Acq: 26 Sep 2015 5:04 pm

Tgt Ion: 97 Resp: 15501

Ion	Ratio	Lower	Upper
97	100		
99	70.5	42.7	82.7
61	44.6	24.9	64.9

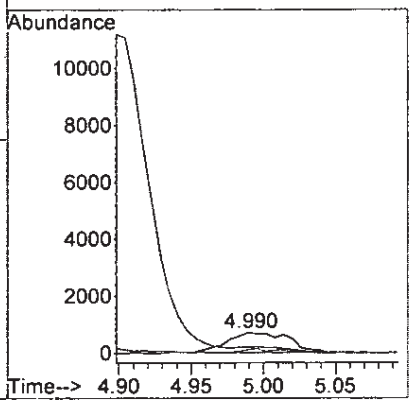


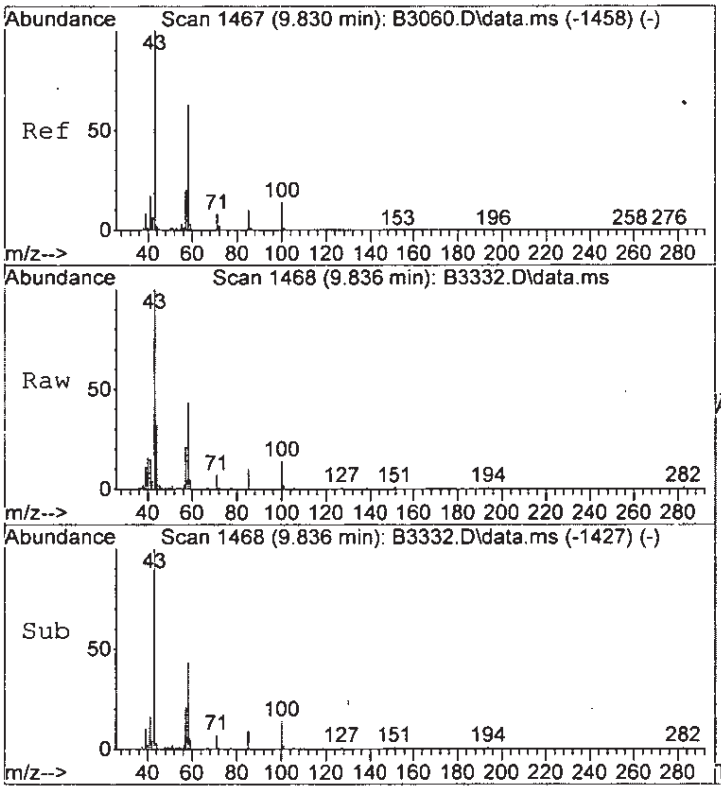


#48
Benzene
Concen: 0.33 ug/L
RT: 4.990 min Scan# 673
Delta R.T. -0.006 min
Lab File: B3332.D
Acq: 26 Sep 2015 5:04 pm

Tgt Ion: 78 Resp: 2066

Ion	Ratio	Lower	Upper
78	100		
51	26.9	0.0	34.2
52	17.2	0.0	32.8

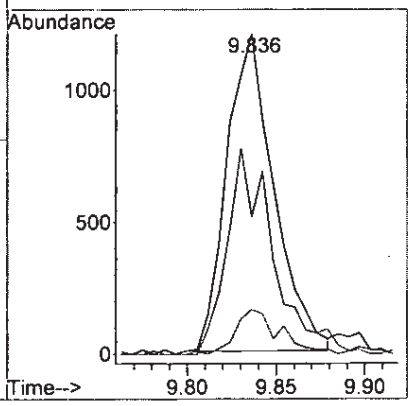




#72
2-Hexanone
Concen: 1.71 ug/L
RT: 9.836 min Scan# 1468
Delta R.T. 0.006 min
Lab File: B3332.D
Acq: 26 Sep 2015 5:04 pm

Tgt Ion: 43 Resp: 2219

Ion	Ratio	Lower	Upper
43	100		
58	42.6	41.3	81.3
100	13.8	0.0	35.4



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1331
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/30/15 16:18
Sample Name:	MW-8	**Units:**	µg/L
Lab Code:	R1508047-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464754
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\093015\F2604.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**2.3**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**2.4**	J	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85-122	9/30/15 16:18	
Dibromofluoromethane	93	89-119	9/30/15 16:18	
Toluene-d8	98	87-121	9/30/15 16:18	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2604.D
Acq On : 30 Sep 2015 4:18 pm
Operator : F. Naegler
Sample : R1508047-006|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 01 13:09:13 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	733499	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	1117685	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	970721	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	492745	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	336687	46.69	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 93.38%			
46) surr1,1,2-dichloroetha...	6.031	65	450531	44.06	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 88.12%			
64) SURR3,Toluene-d8	8.488	98	1285055	48.89	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.78%			
69) SURR2,BFB	11.018	95	485776	44.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 89.50%			
Target Compounds						Qvalue
10) Freon 123a	2.172	67	18584	2.15	ug/L	85
14) Freon 113	2.367	101	25725	3.84	ug/L	97
15) Acetone	2.434	43	396022	63.12	ug/L	94
18) Carbon Disulfide	2.562	76	22749	1.24	ug/L	98
27) 1,1-Diclethane	3.708	63	34011	2.42	ug/L	80
34) 2-Butanone	4.708	43	48830	6.18	ug/L	97
39) Chloroform	5.238	83	3651m	0.29	ug/L	
40) 1,1,1-Trichloroethane	5.519	97	25400	2.29	ug/L	88
63) 4-Methyl-2-pentanone	8.409	43	4495	0.29	ug/L #	67
72) 2-Hexanone	9.299	43	7336	0.62	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

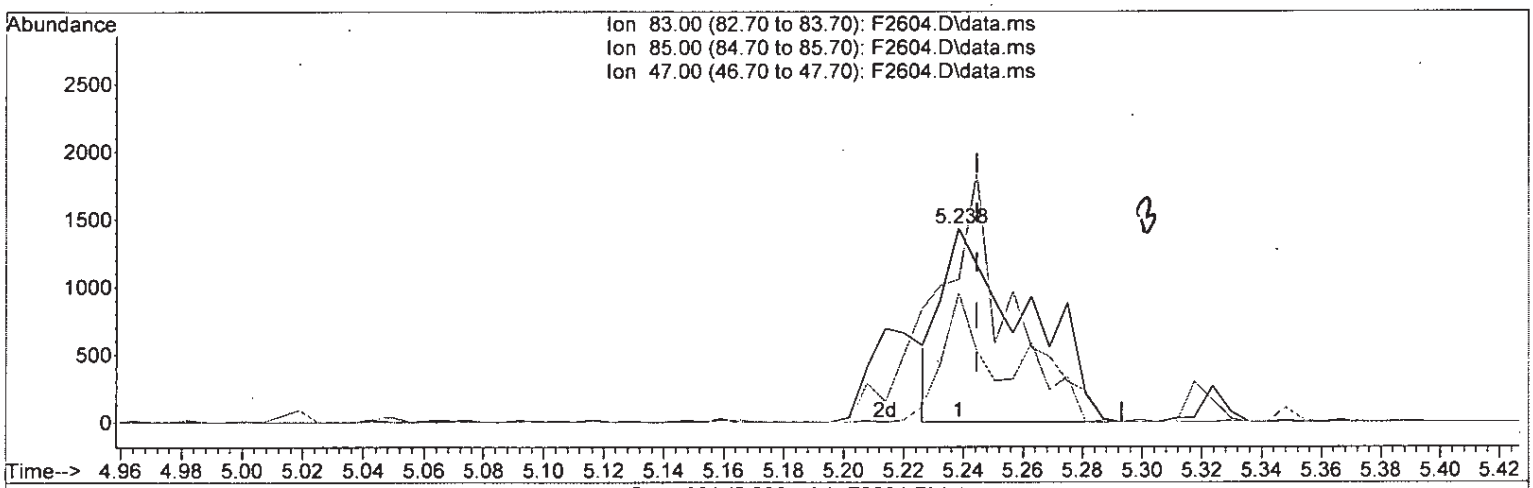
FN 10/1/15

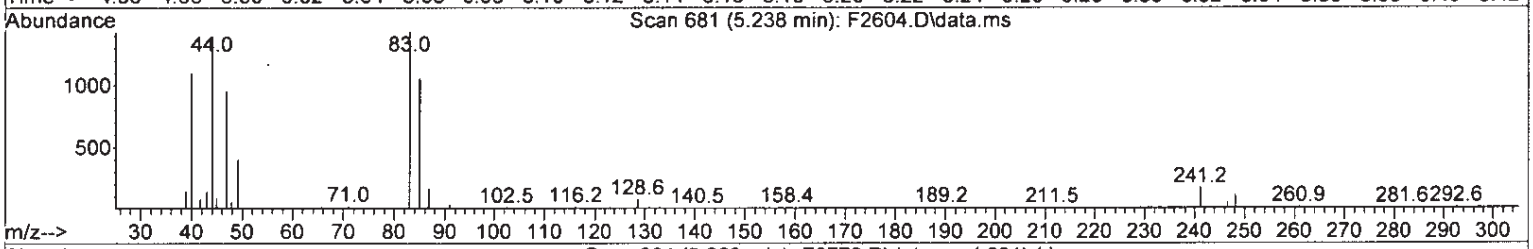
KB 10/1/15

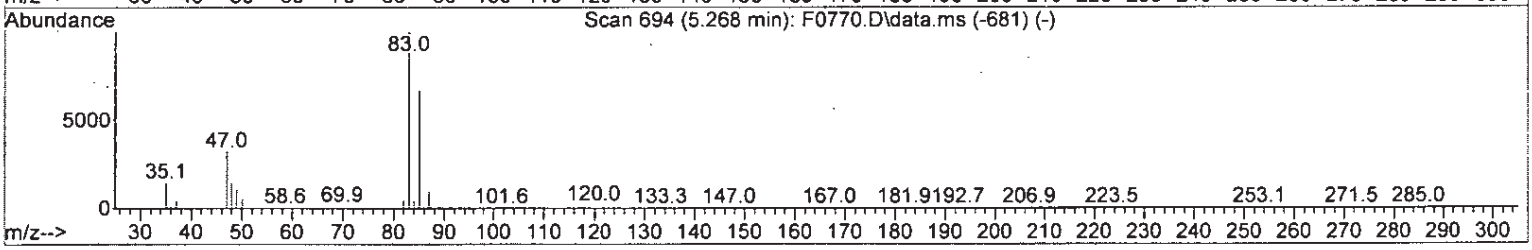
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2604.D
Acq On : 30 Sep 2015 4:18 pm
Operator : F. Naegler
Sample : R1508047-006|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 30 16:32:45 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration







TIC: F2604.D\data.ms

(39) Chloroform (P)

5.238min (-0.006) 0.22 ug/L

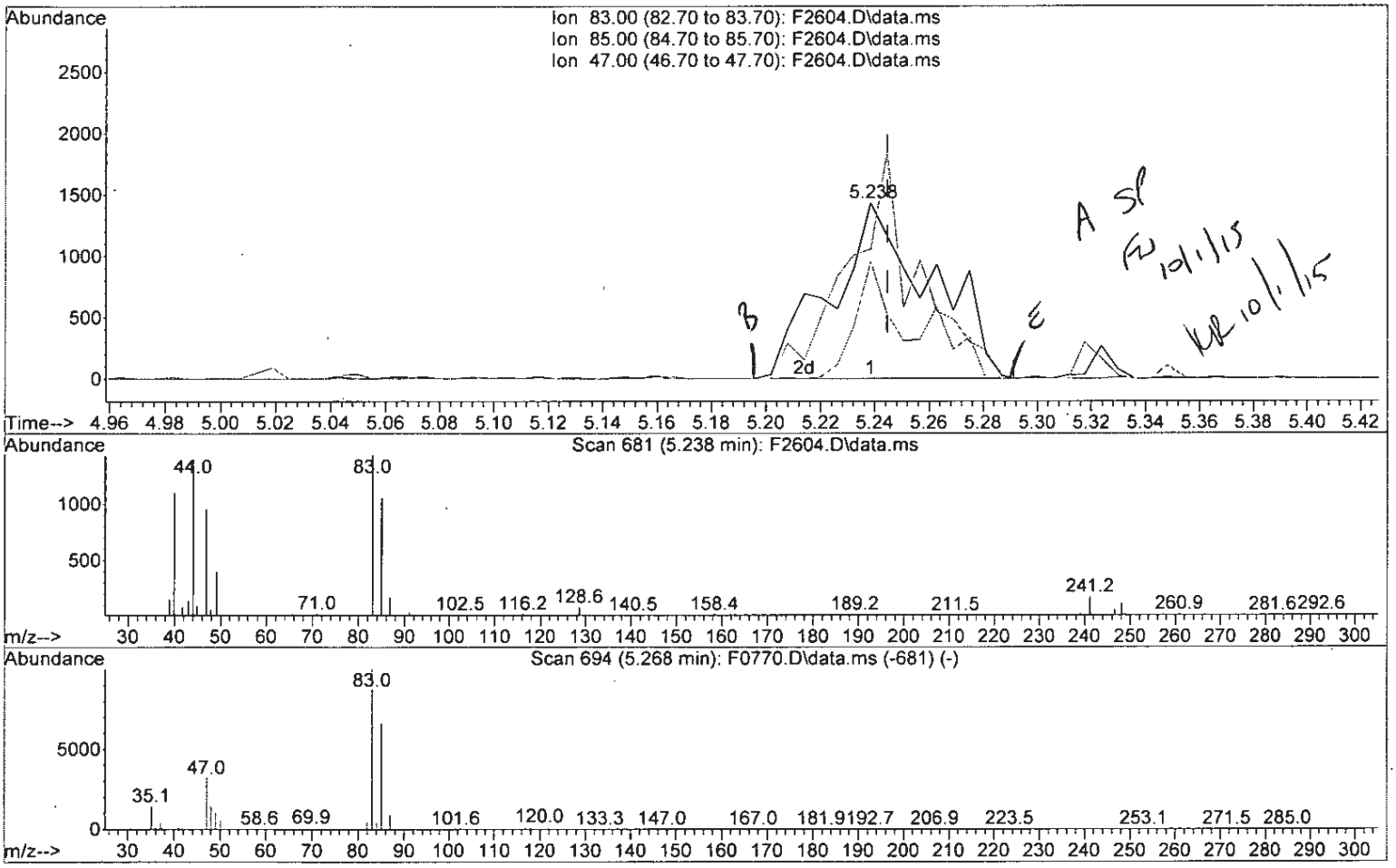
response 2790

Ion	Exp%	Act%
83.00	100	100
85.00	66.10	73.65
47.00	31.90	66.67#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2604.D
Acq On : 30 Sep 2015 4:18 pm
Operator : F. Naegler
Sample : R1508047-006|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 30 16:32:45 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2604.D\data.ms

(39) Chloroform (P)

5.238min (-0.006) 0.29 ug/L m

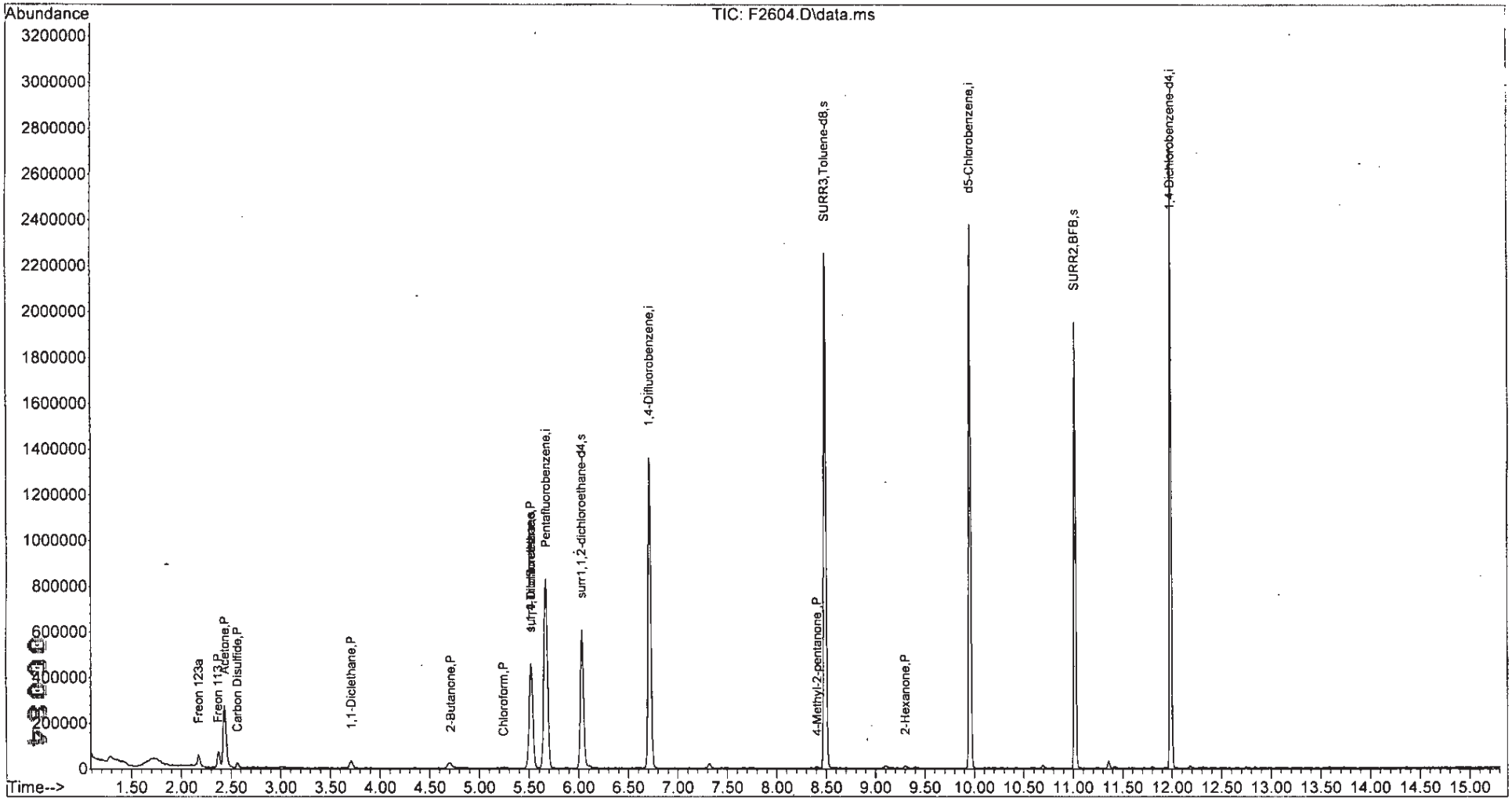
response 3651

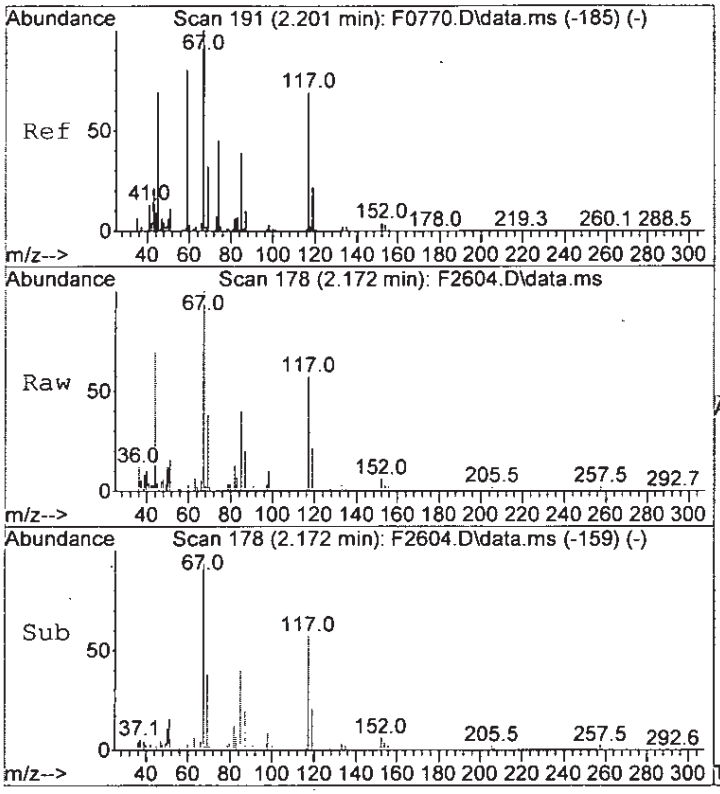
Ion	Exp%	Act%
83.00	100	100
85.00	66.10	73.65
47.00	31.90	66.67#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2604.D
Acq On : 30 Sep 2015 4:18 pm
Operator : F. Naegler
Sample : R1508047-006|1.0 Inst : MSVOA10
Misc : VERINA 7979 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 01 13:09:13 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

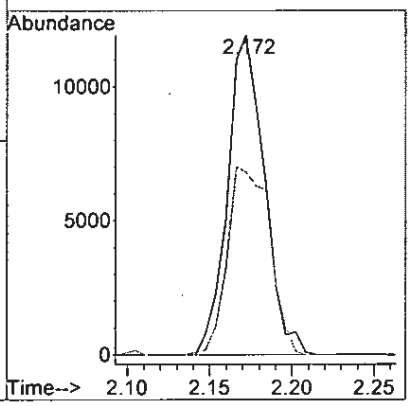


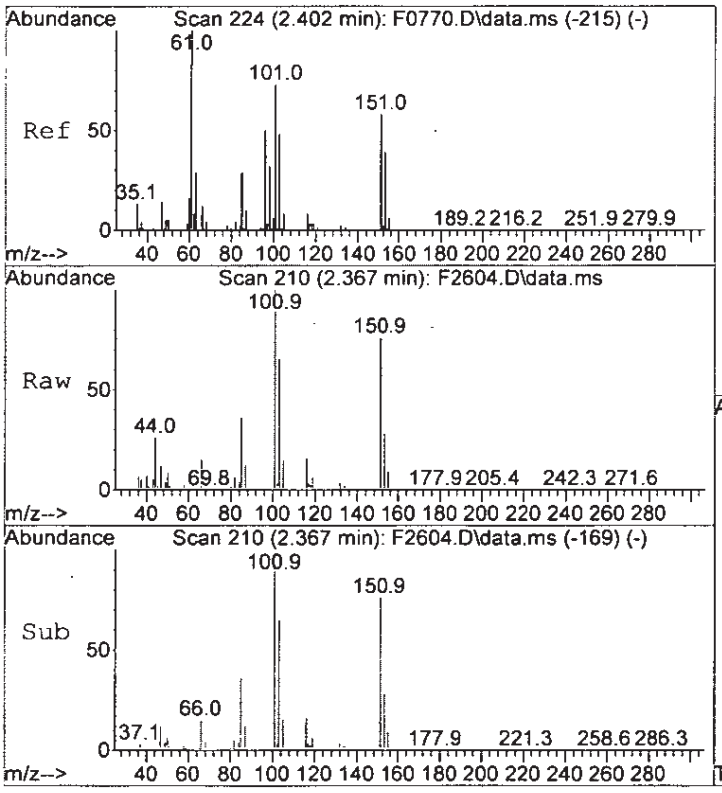


#10
Freon 123a
Concen: 2.15 ug/L
RT: 2.172 min Scan# 178
Delta R.T. -0.000 min
Lab File: F2604.D
Acq: 30 Sep 2015 4:18 pm

Tgt Ion: 67 Resp: 18584

Ion	Ratio	Lower	Upper
67	100		
117	57.1	49.3	89.3

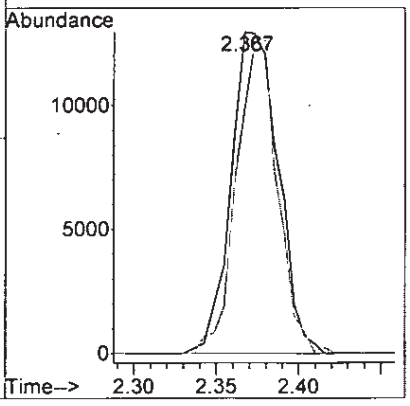


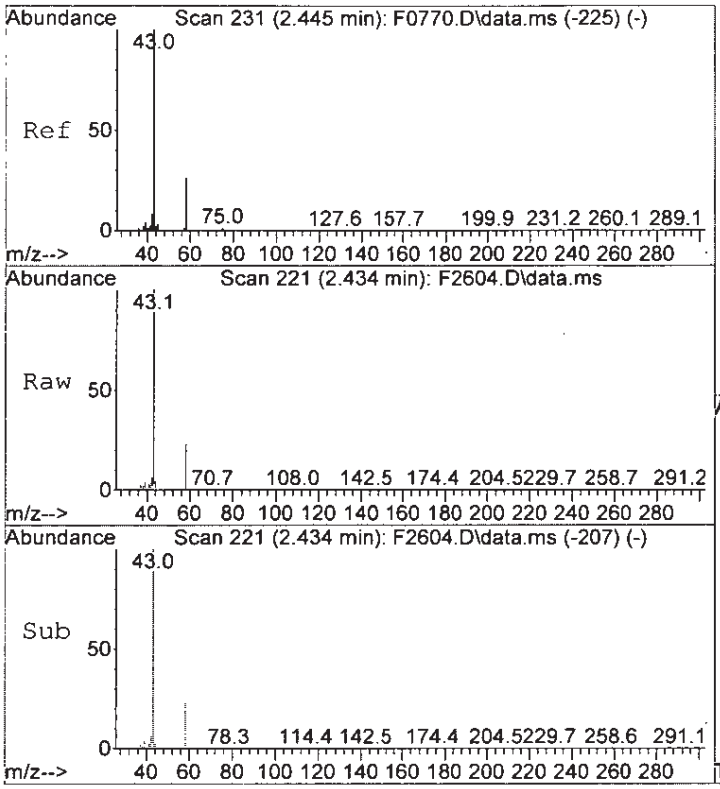


#14
Freon 113
Concen: 3.84 ug/L
RT: 2.367 min Scan# 210
Delta R.T. -0.006 min
Lab File: F2604.D
Acq: 30 Sep 2015 4:18 pm

Tgt Ion:101 Resp: 25725

Ion	Ratio	Lower	Upper
101	100		
151	77.1	59.7	99.7

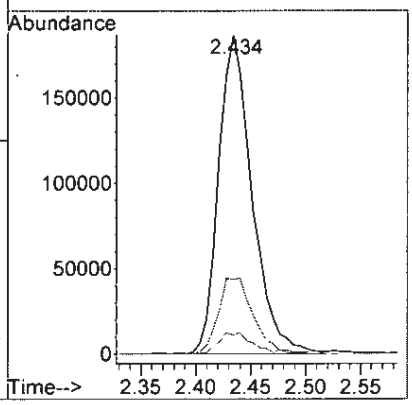


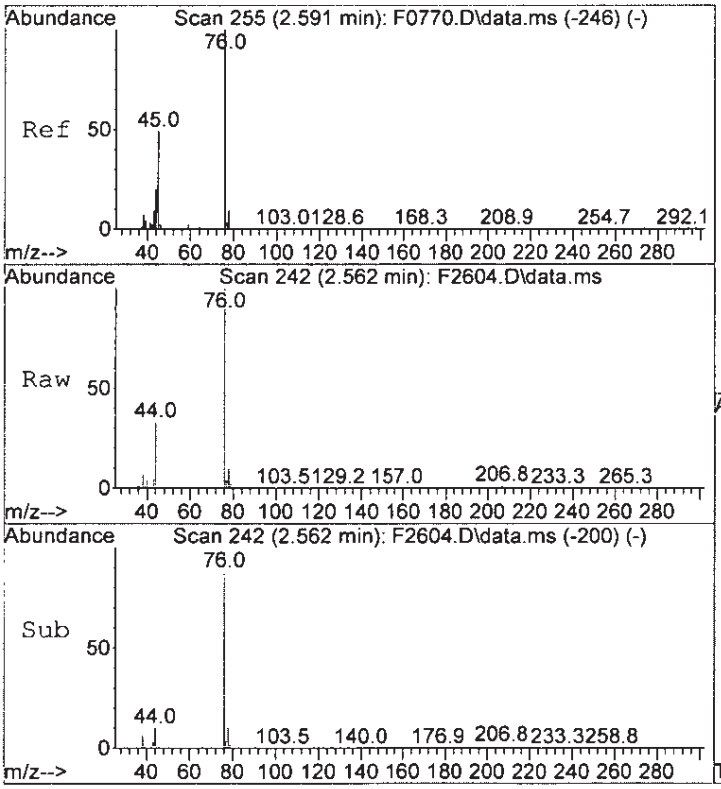


#15
Acetone
Concen: 63.12 ug/L
RT: 2.434 min Scan# 221
Delta R.T. 0.013 min
Lab File: F2604.D
Acq: 30 Sep 2015 4:18 pm

Tgt Ion: 43 Resp: 396022

Ion	Ratio	Lower	Upper
43	100		
58	23.4	6.1	46.1
42	5.9	0.0	28.3

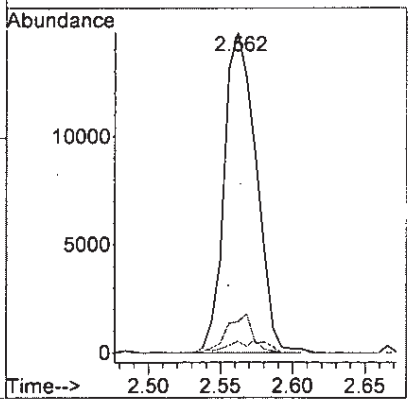


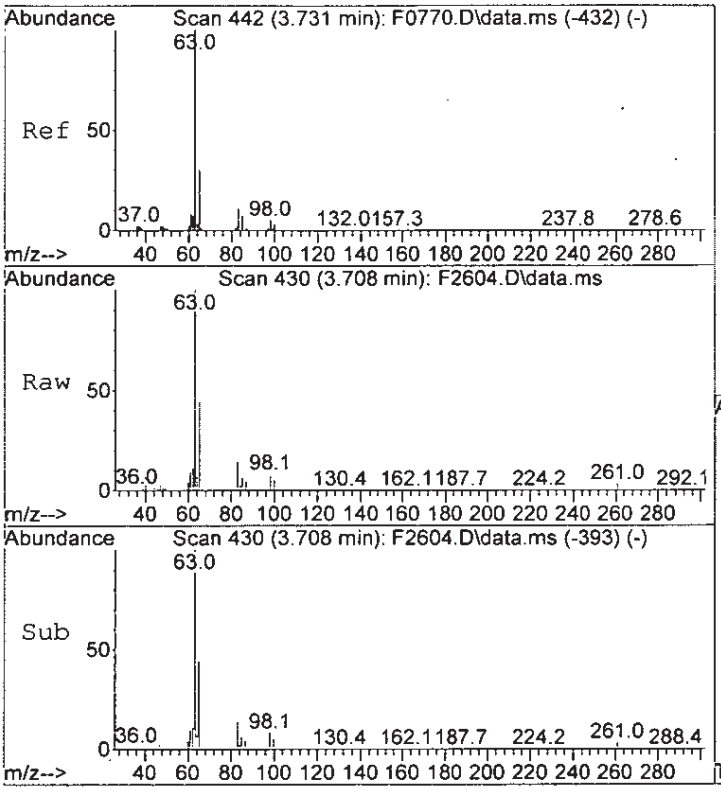


#18
Carbon Disulfide
Concen: 1.24 ug/L
RT: 2.562 min Scan# 242
Delta R.T. -0.000 min
Lab File: F2604.D
Acq: 30 Sep 2015 4:18 pm

Tgt Ion: 76 Resp: 22749

Ion	Ratio	Lower	Upper
76	100		
78	9.7	0.0	29.2
77	3.5	0.0	22.6

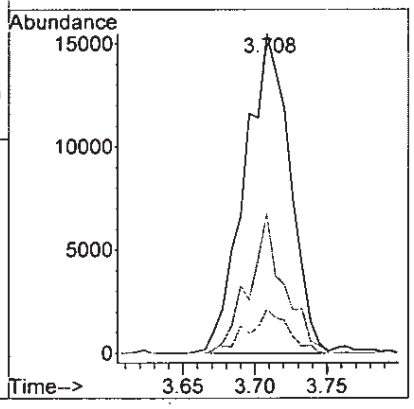


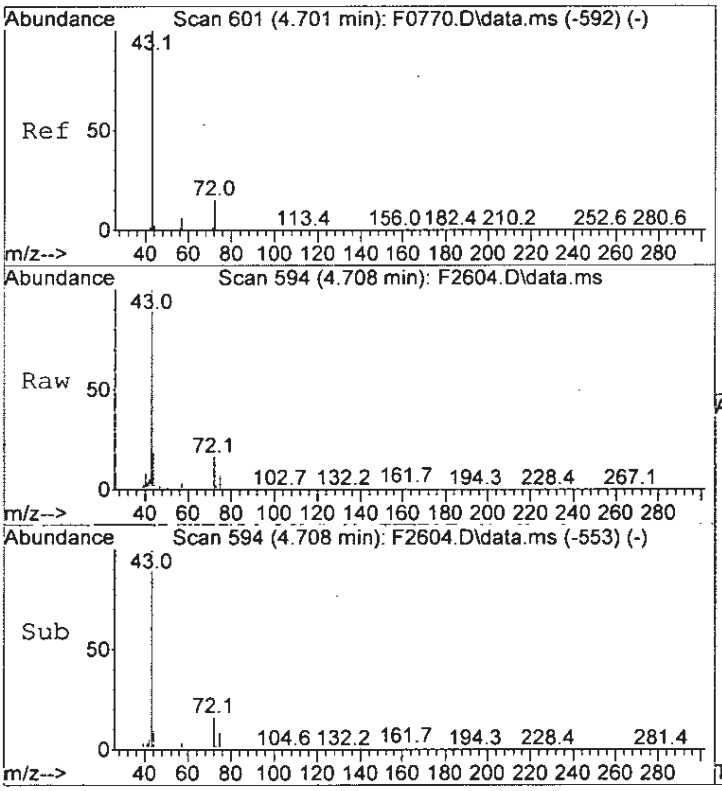


#27
1,1-Diclethane
Concen: 2.42 ug/L
RT: 3.708 min Scan# 430
Delta R.T. -0.000 min
Lab File: F2604.D
Acq: 30 Sep 2015 4:18 pm

Tgt Ion: 63 Resp: 34011

Ion	Ratio	Lower	Upper
63	100		
65	43.8	9.9	49.9
83	13.6	0.0	31.1

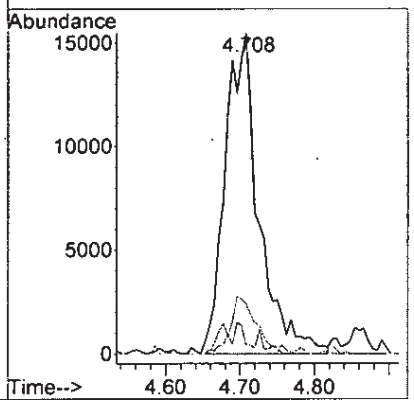


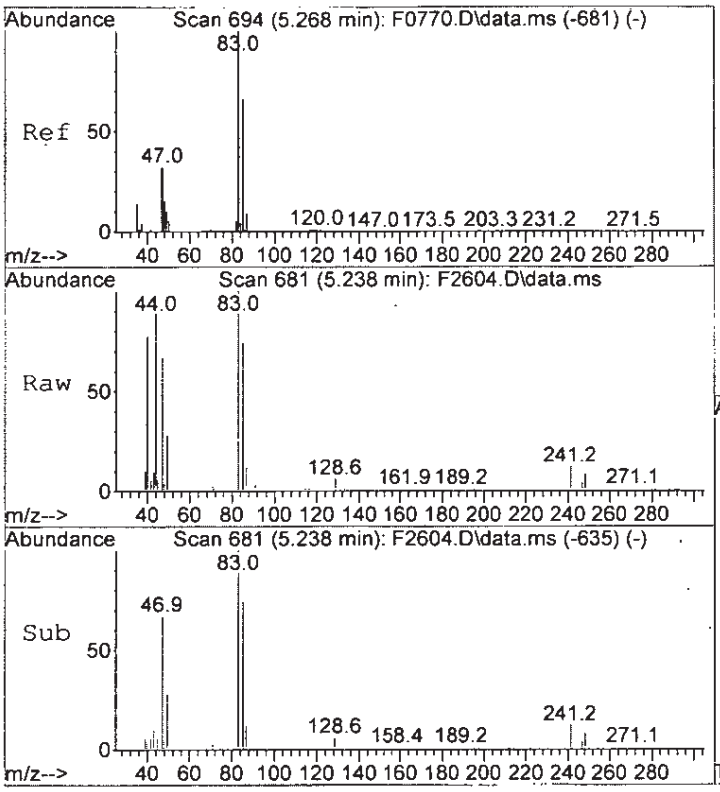


#34
2-Butanone
Concen: 6.18 ug/L
RT: 4.708 min Scan# 594
Delta R.T. 0.024 min
Lab File: F2604.D
Acq: 30 Sep 2015 4:18 pm

Tgt Ion: 43 Resp: 48830

Ion	Ratio	Lower	Upper
43	100		
57	2.9	0.0	25.7
72	15.8	0.0	35.3

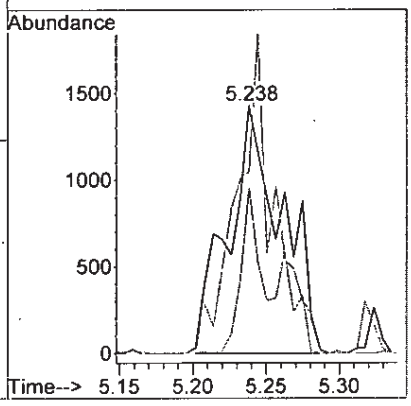


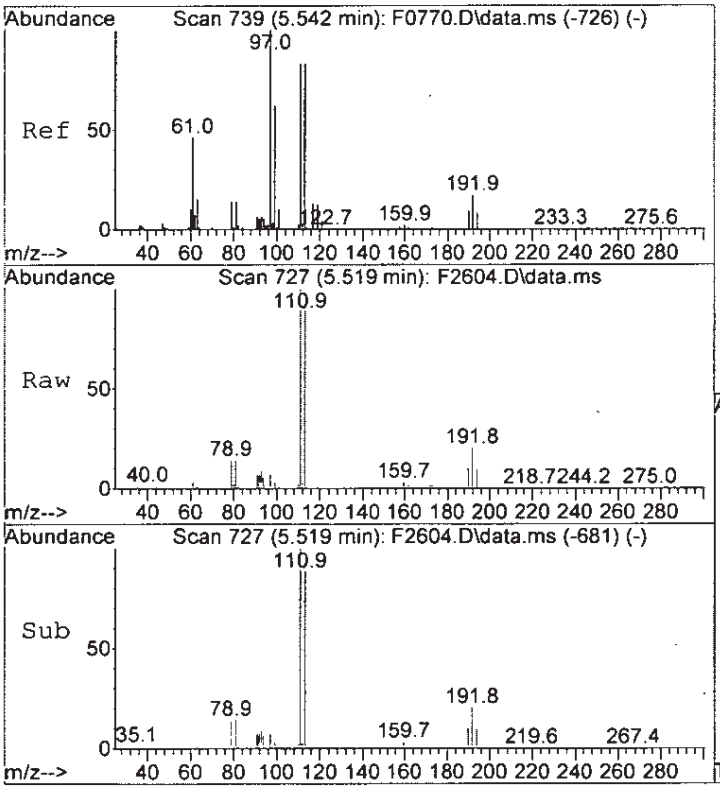


#39
Chloroform
Concen: 0.29 ug/L m
RT: 5.238 min Scan# 681
Delta R.T. -0.006 min
Lab File: F2604.D
Acq: 30 Sep 2015 4:18 pm

Tgt Ion: 83 Resp: 3651

Ion	Ratio	Lower	Upper
83	100		
85	73.7	46.1	86.1
47	66.7	11.9	51.9#

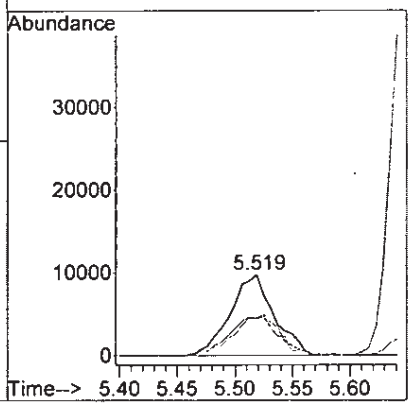


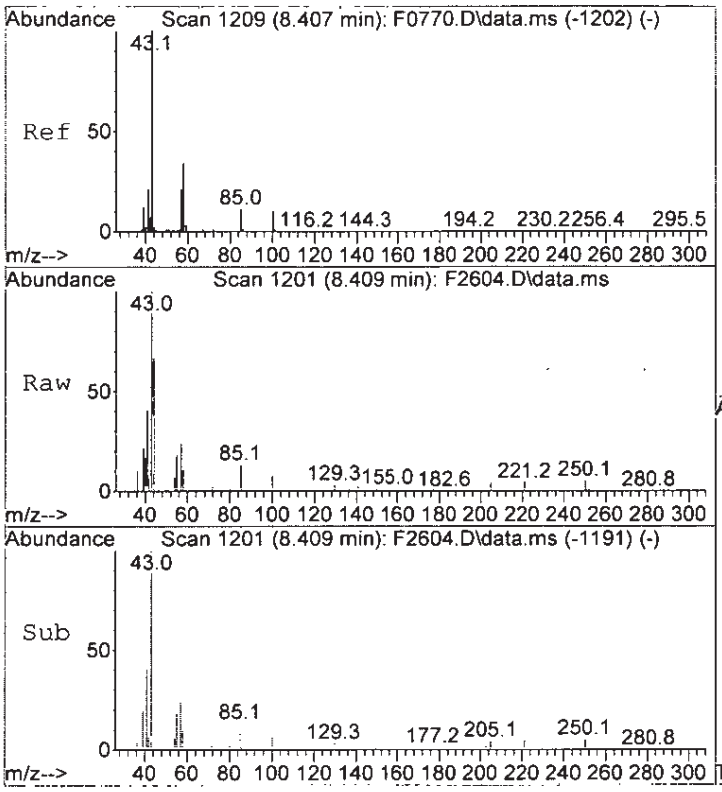


#40
1,1,1-Trichloroethane
Concen: 2.29 ug/L
RT: 5.519 min Scan# 727
Delta R.T. -0.000 min
Lab File: F2604.D
Acq: 30 Sep 2015 4:18 pm

Tgt Ion: 97 Resp: 25400

Ion	Ratio	Lower	Upper
97	100		
99	45.9	41.5	81.5
61	45.1	26.4	66.4

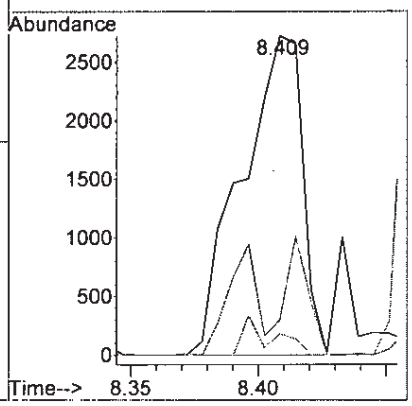


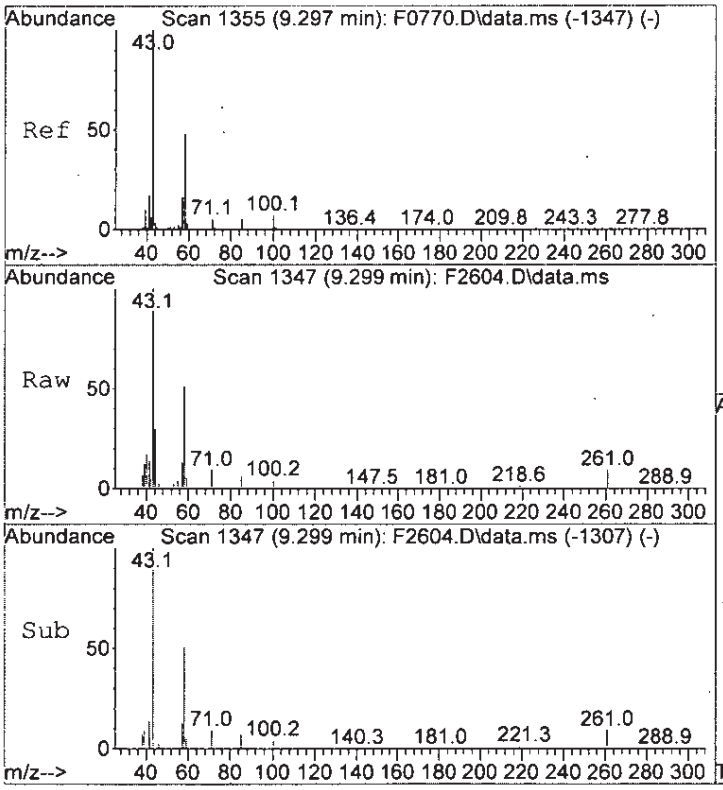


#63
4-Methyl-2-pentanone
Concen: 0.29 ug/L
RT: 8.409 min Scan# 1201
Delta R.T. -0.000 min
Lab File: F2604.D
Acq: 30 Sep 2015 4:18 pm

Tgt Ion: 43 Resp: 4495

Ion	Ratio	Lower	Upper
43	100		
58	11.0	13.5	53.5#
100	6.6	0.0	29.9

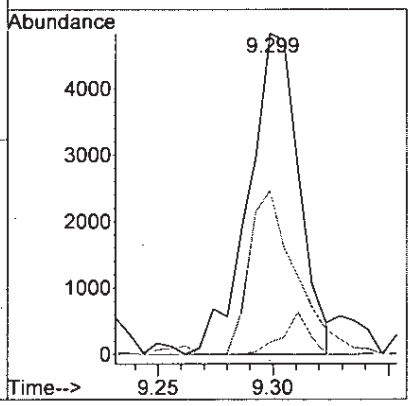




#72
2-Hexanone
Concen: 0.62 ug/L
RT: 9.299 min Scan# 1347
Delta R.T. -0.000 min
Lab File: F2604.D
Acq: 30 Sep 2015 4:18 pm

Tgt Ion: 43 Resp: 7336

Ion	Ratio	Lower	Upper
43	100		
58	51.0	27.6	67.6
100	3.7	0.0	26.8



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1335
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 17:29
Sample Name:	DMW-3	**Units:**	µg/L
Lab Code:	R1508047-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3333.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	9/26/15 17:29	
Dibromofluoromethane	92	89-119	9/26/15 17:29	
Toluene-d8	99	87-121	9/26/15 17:29	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3333.D
Acq On : 26 Sep 2015 5:29 pm
Operator : B Wojtasiewicz
Sample : R1508047-007|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 01 13:16:17 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

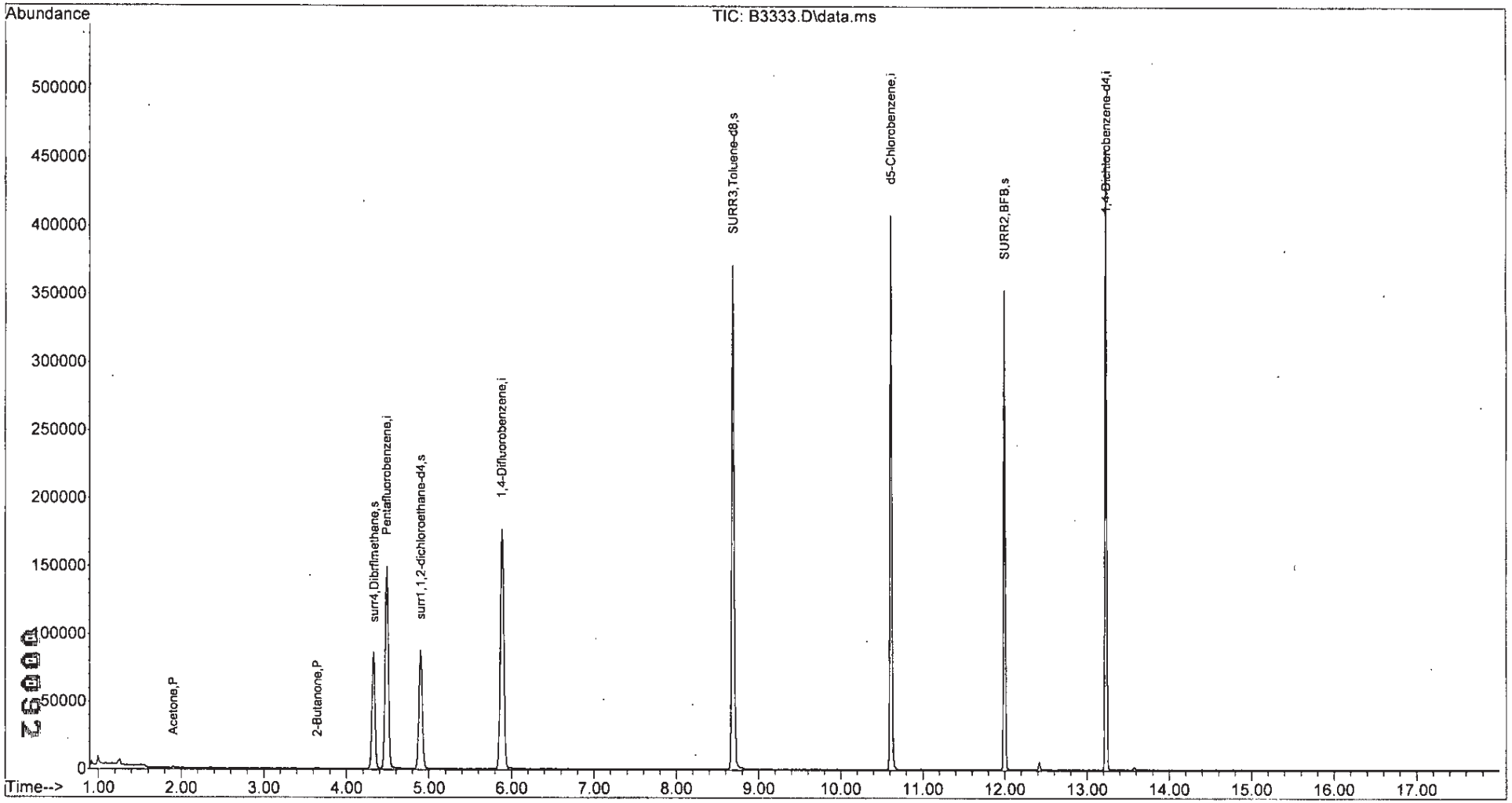
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	150190	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.880	114	232442	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	204668	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	103025	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.331	113	67790	46.01	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 92.02%			
47) surr1,1,2-dichloroetha...	4.898	65	84985	50.69	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.38%			
64) SURR3,Toluene-d8	8.690	98	283469	49.31	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.62%			
69) SURR2,BFB	11.995	95	108398	49.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.14%			
Target Compounds						Qvalue
15) Acetone	1.899	43	1015	1.44	ug/L	93
34) 2-Butanone	3.642	43	285	0.29	ug/L #	62

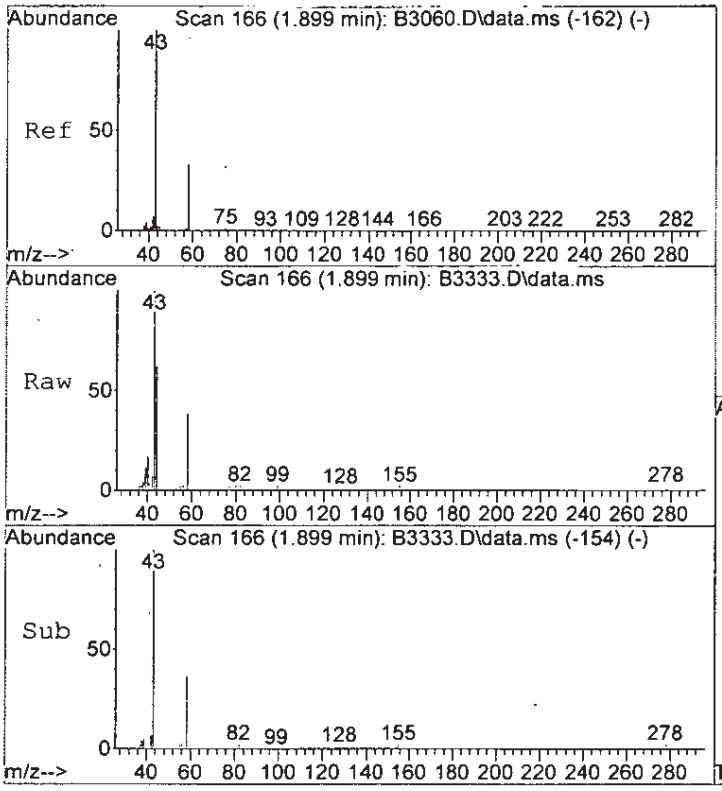
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3333.D
Acq On : 26 Sep 2015 5:29 pm
Operator : B Wojtasiewicz
Sample : R1508047-007|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 01 13:16:17 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

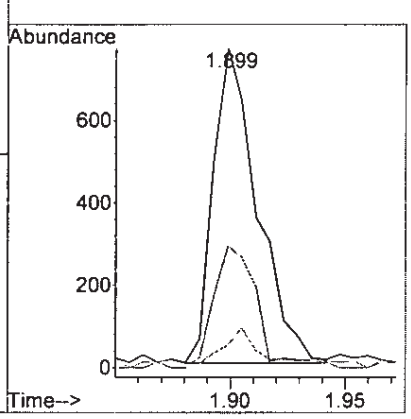


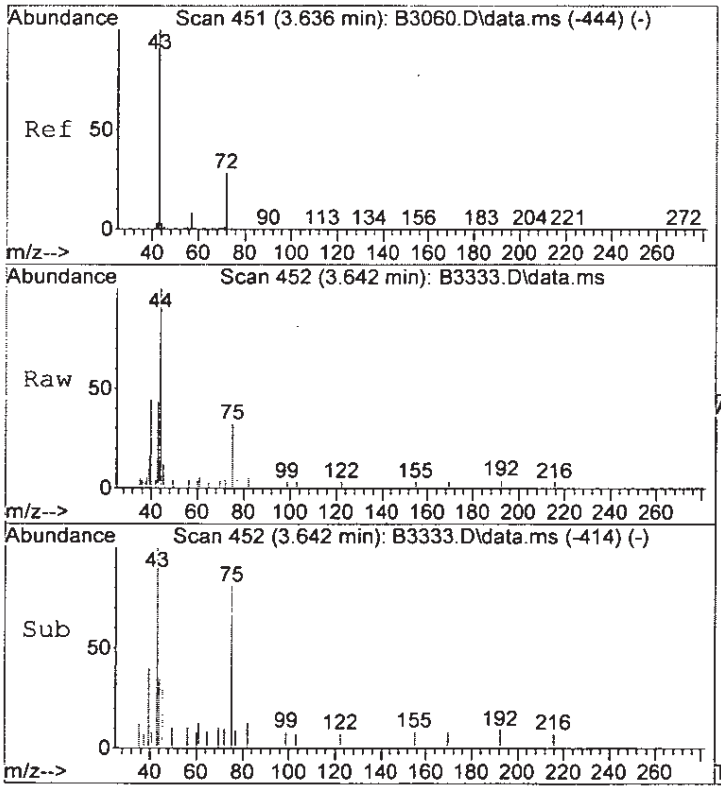


#15
Acetone
Concen: 1.44 ug/L
RT: 1.899 min Scan# 166
Delta R.T. 0.001 min
Lab File: B3333.D
Acq: 26 Sep 2015 5:29 pm

Tgt Ion: 43 Resp: 1015

Ion	Ratio	Lower	Upper
43	100		
58	39.4	15.5	55.5
42	7.0	0.0	29.2

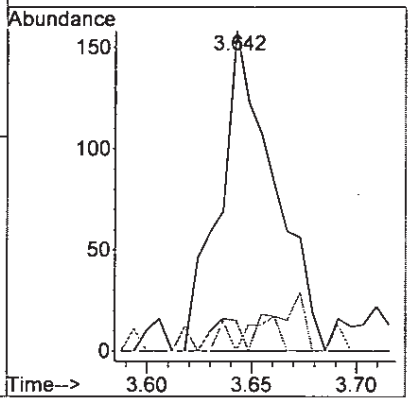




#34
2-Butanone
Concen: 0.29 ug/L
RT: 3.642 min Scan# 452
Delta R.T. 0.006 min
Lab File: B3333.D
Acq: 26 Sep 2015 5:29 pm

Tgt Ion: 43 Resp: 285

Ion	Ratio	Lower	Upper
43	100		
72	9.5	12.8	52.8#
57	0.0	0.0	28.2



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1452
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 17:53
Sample Name:	MW-13	**Units:**	µg/L
Lab Code:	R1508047-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3334.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	9/26/15 17:53	
Dibromofluoromethane	94	89-119	9/26/15 17:53	
Toluene-d8	98	87-121	9/26/15 17:53	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3334.D
Acq On : 26 Sep 2015 5:53 pm
Operator : B Wojtasiewicz
Sample : R1508047-008|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 01 13:18:10 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	148514	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	229375	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	204180	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	100536	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	68064	46.81	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 93.62%			
47) surr1,1,2-dichloroetha...	4.898	65	83769	50.63	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.26%			
64) SURR3,Toluene-d8	8.690	98	276747	48.79	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.58%			
69) SURR2,BFB	11.995	95	105319	48.81	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 97.62%			
Target Compounds						Qvalue
15) Acetone	1.905	43	471	0.68	ug/L	96

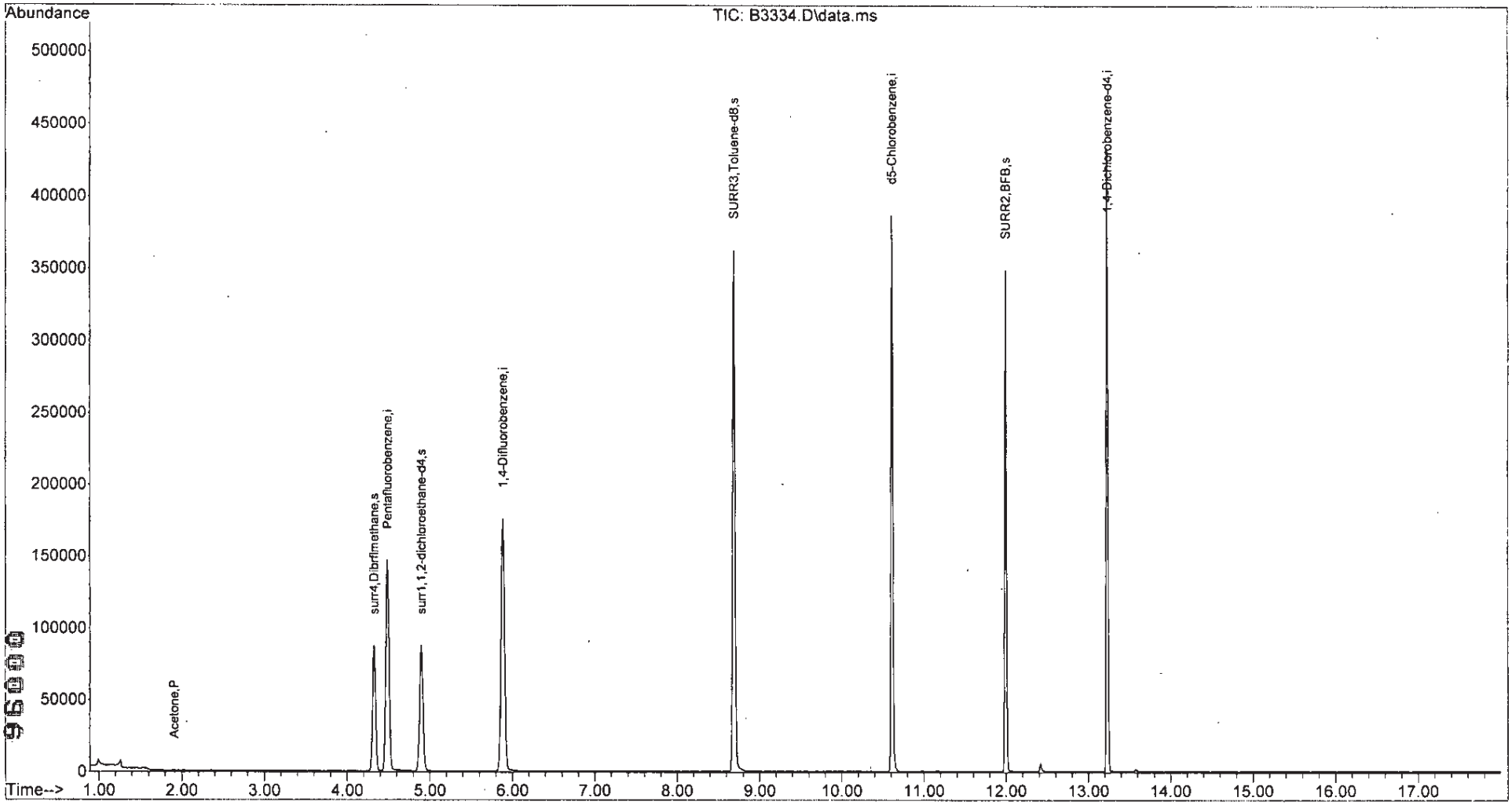
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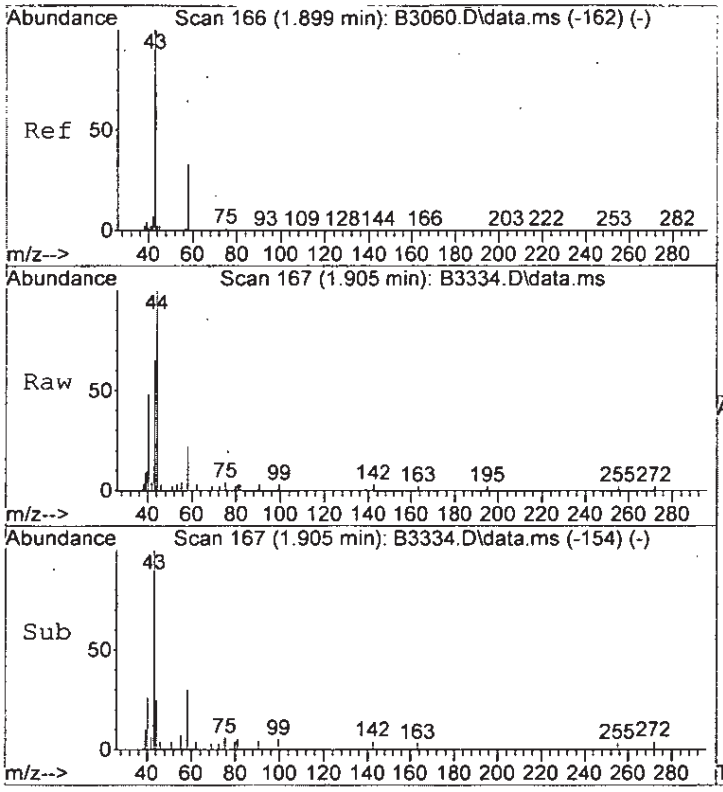
BA 10/11

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3334.D
Acq On : 26 Sep 2015 5:53 pm
Operator : B Wojtasiewicz
Sample : R1508047-008|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 01 13:18:10 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

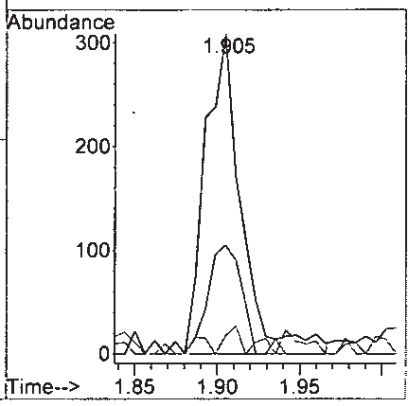




#15
Acetone
Concen: 0.68 ug/L
RT: 1.905 min Scan# 167
Delta R.T. 0.007 min
Lab File: B3334.D
Acq: 26 Sep 2015 5:53 pm

Tgt Ion: 43 Resp: 471

Ion	Ratio	Lower	Upper
43	100		
58	34.1	15.5	55.5
42	5.5	0.0	29.2



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1455
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 18:17
Sample Name:	TMP-4	**Units:**	µg/L
Lab Code:	R1508047-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3335.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**0.31**	**J**	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85-122	9/26/15 18:17	
Dibromofluoromethane	93	89-119	9/26/15 18:17	
Toluene-d8	97	87-121	9/26/15 18:17	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3335.D
Acq On : 26 Sep 2015 6:17 pm
Operator : B Wojtasiewicz
Sample : R1508047-009|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 01 13:20:07 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	143605	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	224190	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.610	117	197683	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	97385	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	65772	46.28	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 92.56%			
47) surr1,1,2-dichloroetha...	4.898	65	81668	50.50	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.00%			
64) SURR3,Toluene-d8	8.690	98	267866	48.31	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 96.62%			
69) SURR2,BFB	11.994	95	99440	47.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.30%			
Target Compounds						Qvalue
15) Acetone	1.899	43	2848	4.22	ug/L	96
16) 2-Propanol	2.021	45	274	2.05	ug/L	97
27) 1,1-Diclethane	2.886	63	750	0.31	ug/L	89
34) 2-Butanone	3.642	43	806	0.85	ug/L	89

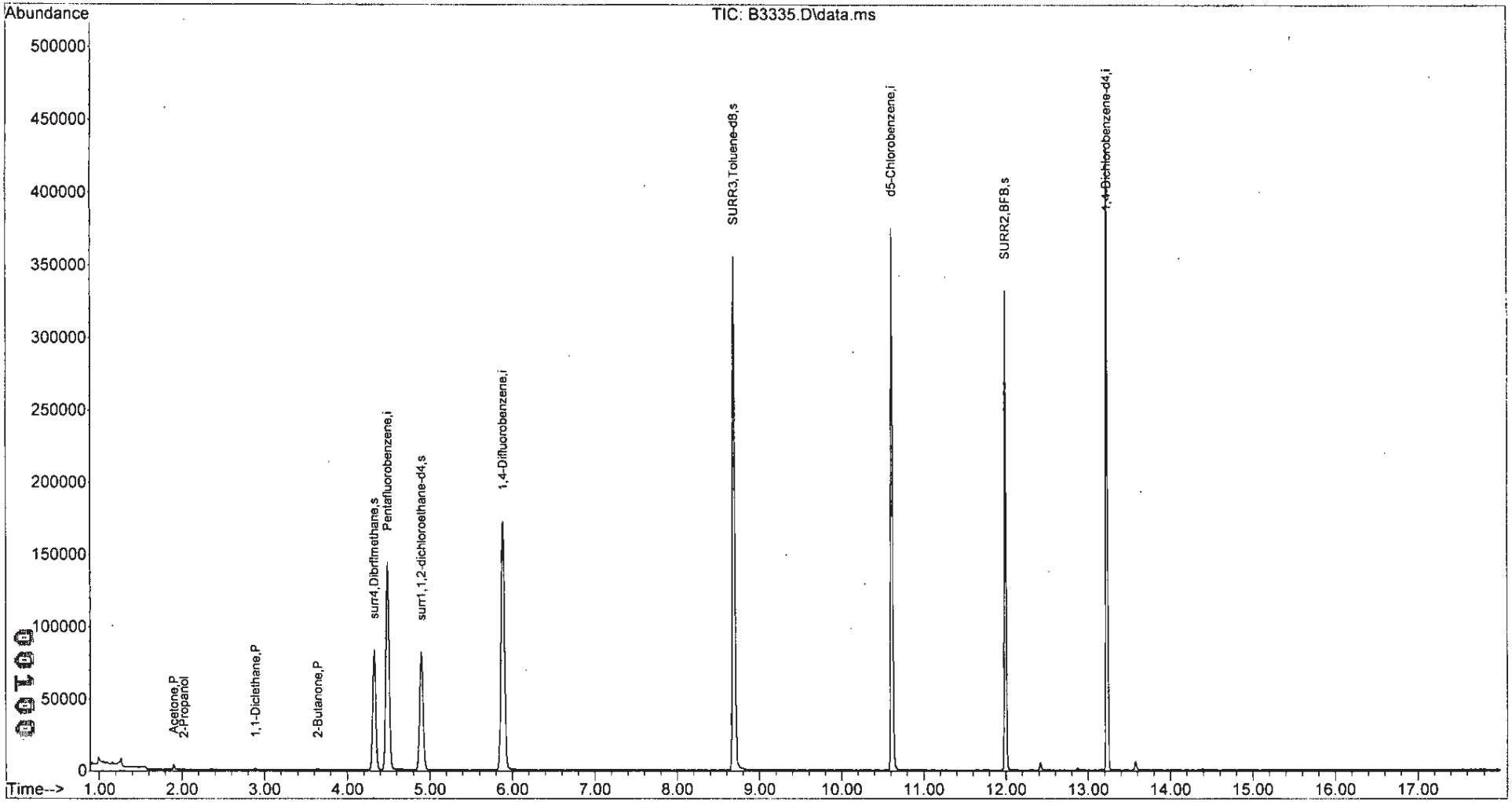
(#) = qualifier out of range (m) = manual integration (+) = signals summed

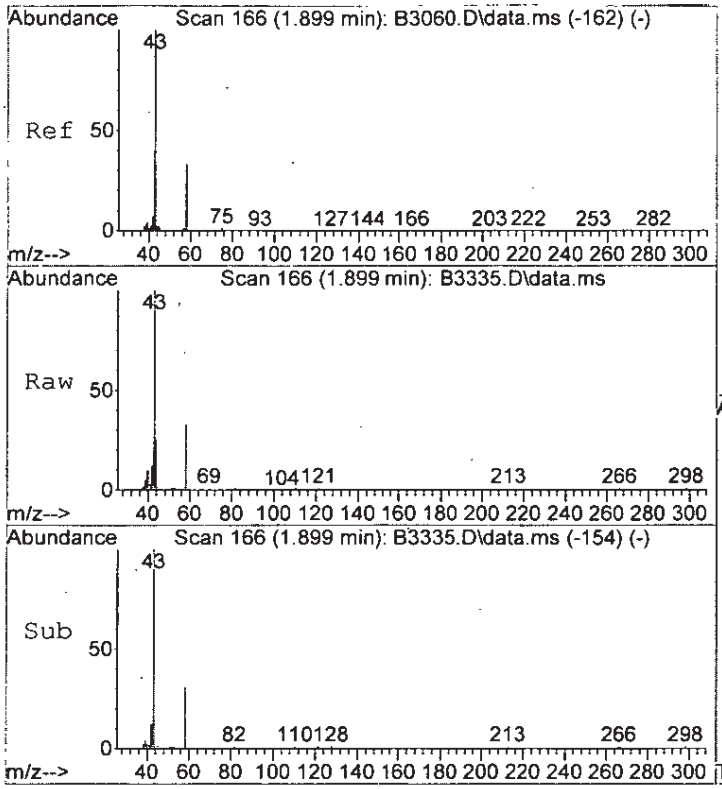
BA 10/2

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3335.D
Acq On : 26 Sep 2015 6:17 pm
Operator : B Wojtasiewicz
Sample : R1508047-009|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 01 13:20:07 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

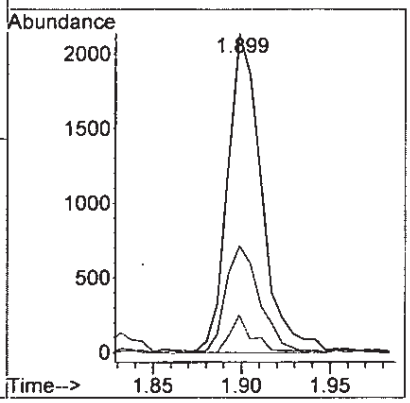


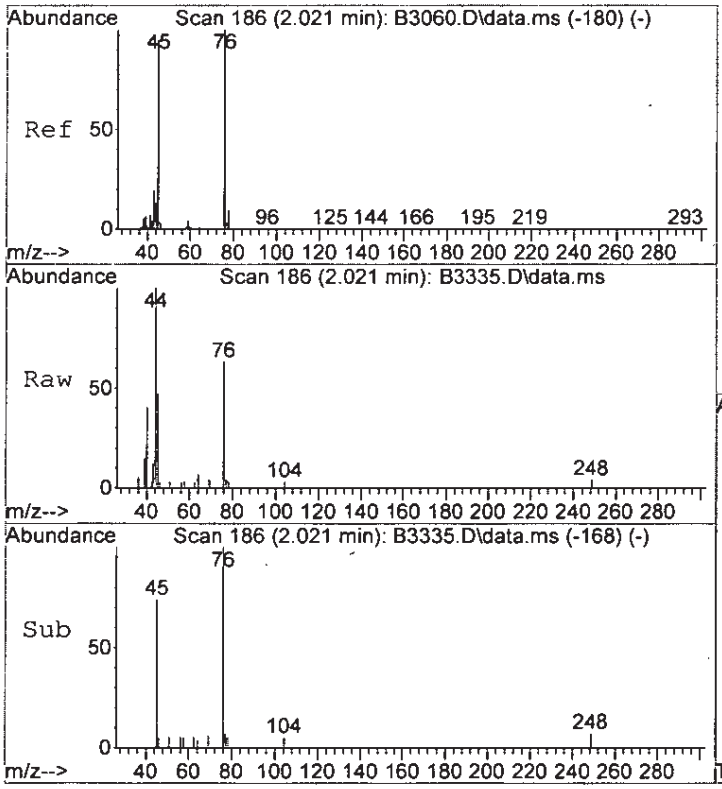


#15
Acetone
Concen: 4.22 ug/L
RT: 1.899 min Scan# 166
Delta R.T. 0.001 min
Lab File: B3335.D
Acq: 26 Sep 2015 6:17 pm

Tgt Ion: 43 Resp: 2848

Ion	Ratio	Lower	Upper
43	100		
58	33.5	15.5	55.5
42	11.7	0.0	29.2

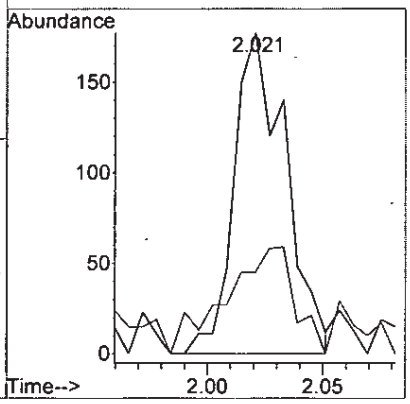


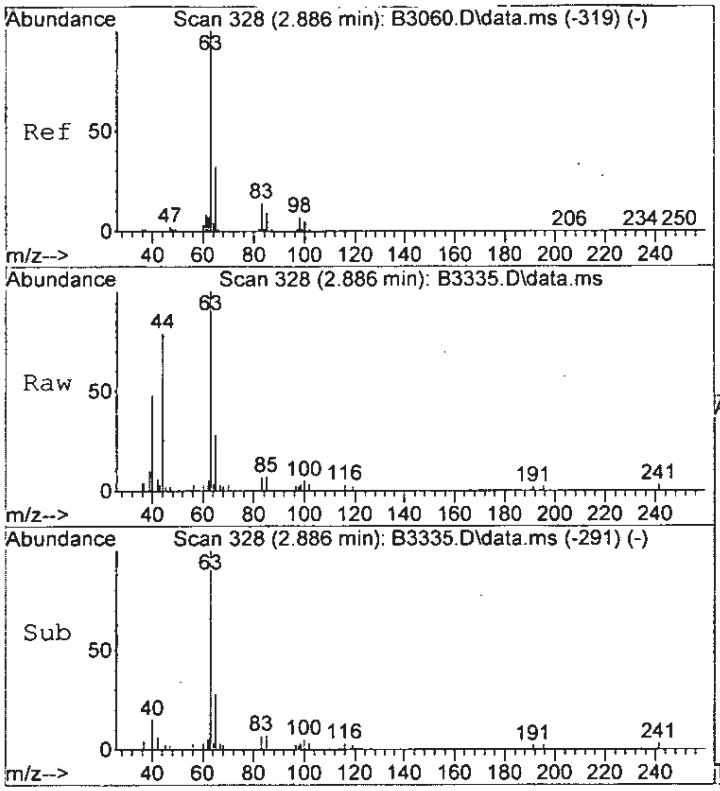


#16
2-Propanol
Concen: 2.05 ug/L
RT: 2.021 min Scan# 186
Delta R.T. 0.000 min
Lab File: B3335.D
Acq: 26 Sep 2015 6:17 pm

Tgt Ion: 45 Resp: 274

Ion	Ratio	Lower	Upper
45	100		
43	25.4	3.8	43.8

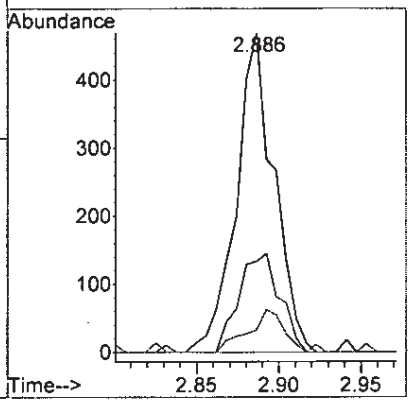


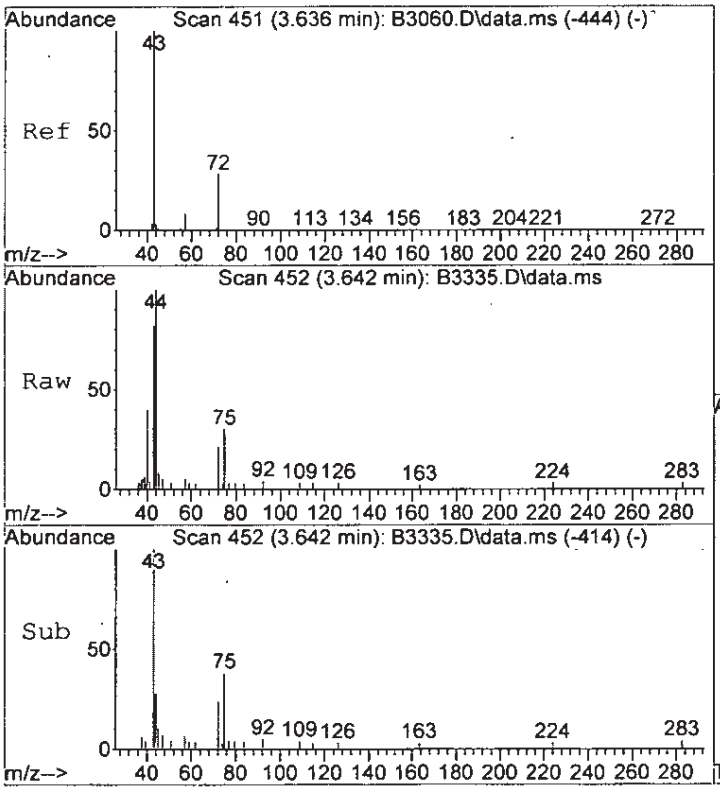


#27
1,1-Diclethane
Concen: 0.31 ug/L
RT: 2.886 min Scan# 328
Delta R.T. 0.000 min
Lab File: B3335.D
Acq: 26 Sep 2015 6:17 pm

Tgt Ion: 63 Resp: 750

Ion	Ratio	Lower	Upper
63	100		
65	28.4	11.9	51.9
83	6.8	0.0	35.0

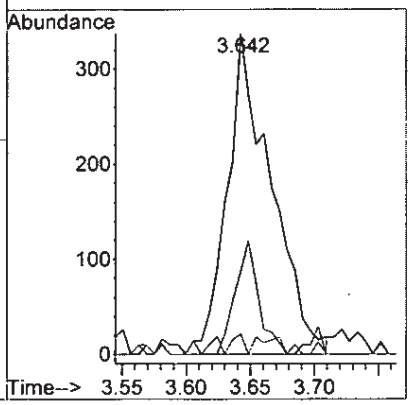




#34
2-Butanone
Concen: 0.85 ug/L
RT: 3.642 min Scan# 452
Delta R.T. 0.006 min
Lab File: B3335.D
Acq: 26 Sep 2015 6:17 pm

Tgt Ion: 43 Resp: 806

Ion	Ratio	Lower	Upper
43	100		
72	25.8	12.8	52.8
57	6.2	0.0	28.2



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1558
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 18:41
Sample Name:	MW-9	**Units:**	µg/L
Lab Code:	R1508047-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3336.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**0.44**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**4.0**	J	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	9/26/15 18:41	
Dibromofluoromethane	94	89-119	9/26/15 18:41	
Toluene-d8	99	87-121	9/26/15 18:41	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3336.D
Acq On : 26 Sep 2015 6:41 pm
Operator : B Wojtasiewicz
Sample : R1508047-010|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 01 13:21:55 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	151086	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	237034	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	210332	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	105067	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	70973	47.24	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 94.48%			
47) surr1,1,2-dichloroetha...	4.898	65	87815	51.36	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.72%			
64) SURR3,Toluene-d8	8.690	98	290504	49.56	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.12%			
69) SURR2,BFB	11.994	95	109333	49.03	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.06%			
Target Compounds						Qvalue
10) Freon 123a	1.710	67	354	0.21	ug/L #	72
14) Freon 113	1.868	101	4627	3.48	ug/L	94
15) Acetone	1.899	43	4948	6.98	ug/L	96
34) 2-Butanone	3.655	43	677	0.68	ug/L	81
39) Chloroform	4.069	83	607	0.23	ug/L #	71
40) 1,1,1-Trichloroethane	4.319	97	934	0.44	ug/L	97
53) Trichloroethene	6.368	130	6396	3.97	ug/L	94

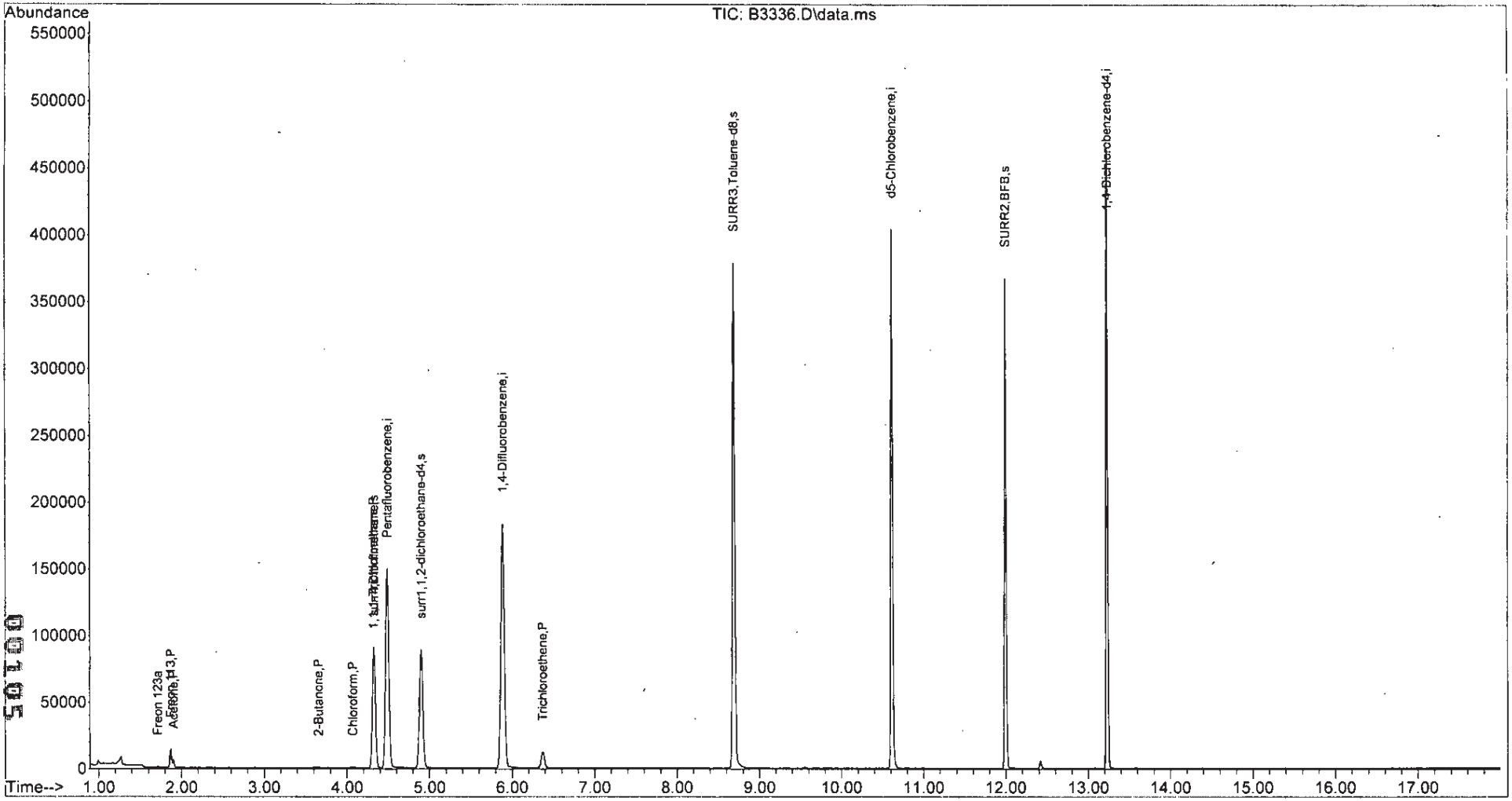
(#) = qualifier out of range (m) = manual integration (+) = signals summed

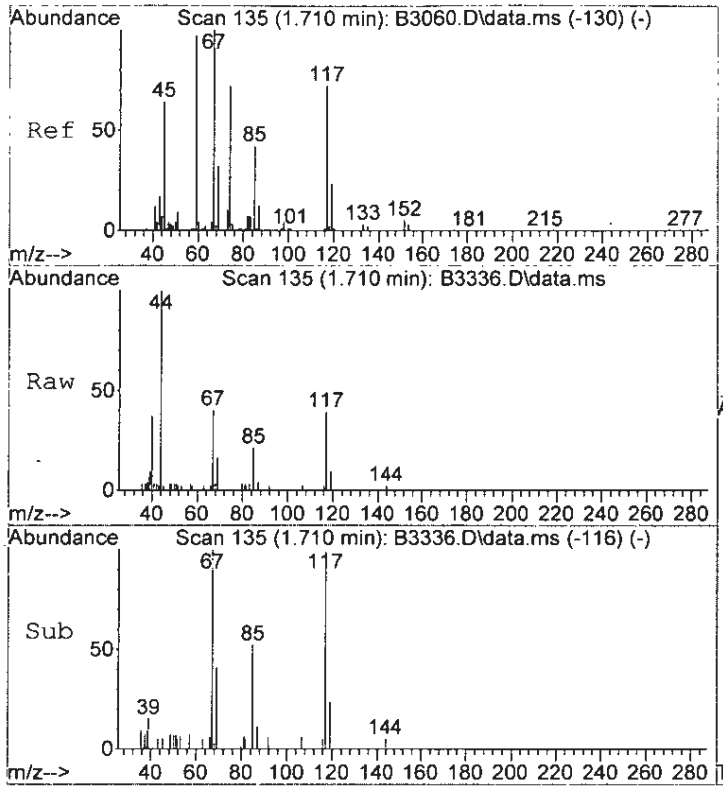
BA 10/1

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3336.D
Acq On : 26 Sep 2015 6:41 pm
Operator : B Wojtasiewicz
Sample : R1508047-010|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 01 13:21:55 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

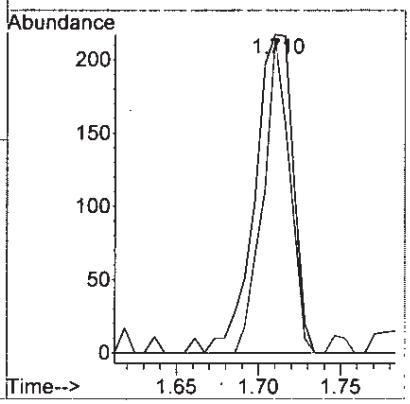


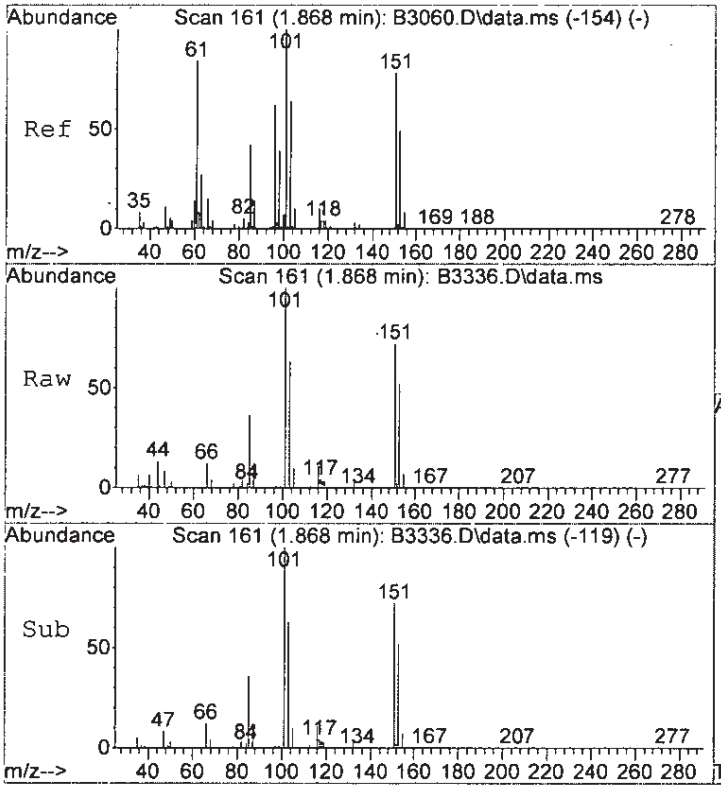


#10
Freon 123a
Concen: 0.21 ug/L
RT: 1.710 min Scan# 135
Delta R.T. 0.000 min
Lab File: B3336.D
Acq: 26 Sep 2015 6:41 pm

Tgt Ion: 67 Resp: 354

Ion	Ratio	Lower	Upper
67	100		
117	98.6	54.5	94.5#

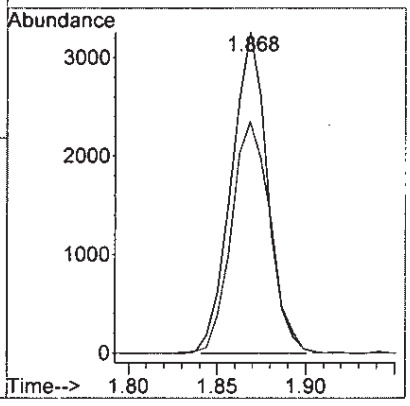


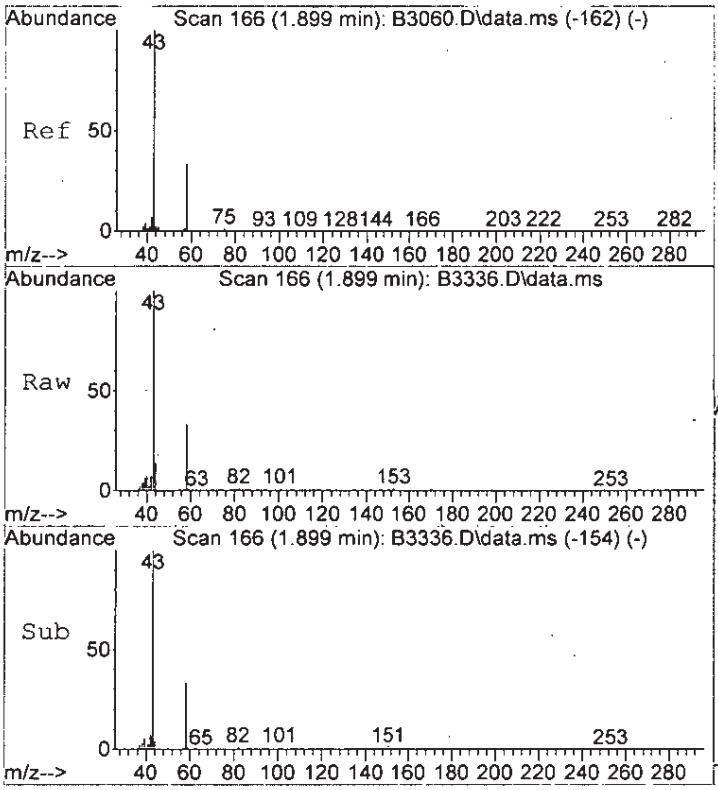


#14
Freon 113
Concen: 3.48 ug/L
RT: 1.868 min Scan# 161
Delta R.T. 0.000 min
Lab File: B3336.D
Acq: 26 Sep 2015 6:41 pm

Tgt Ion:101 Resp: 4627

Ion	Ratio	Lower	Upper
101	100		
151	72.1	56.9	96.9

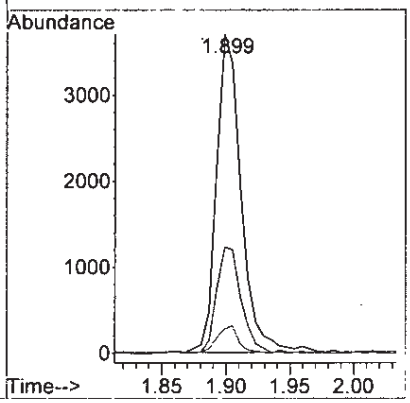


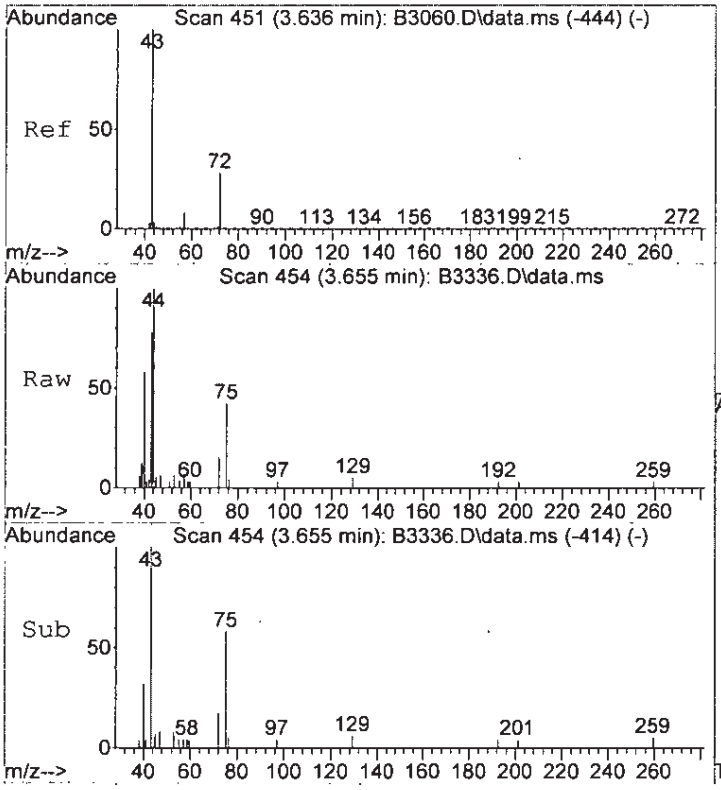


#15
Acetone
Concen: 6.98 ug/L
RT: 1.899 min Scan# 166
Delta R.T. 0.001 min
Lab File: B3336.D
Acq: 26 Sep 2015 6:41 pm

Tgt Ion: 43 Resp: 4948

Ion	Ratio	Lower	Upper
43	100		
58	33.3	15.5	55.5
42	7.5	0.0	29.2

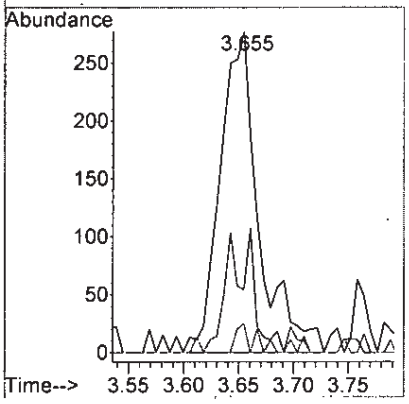


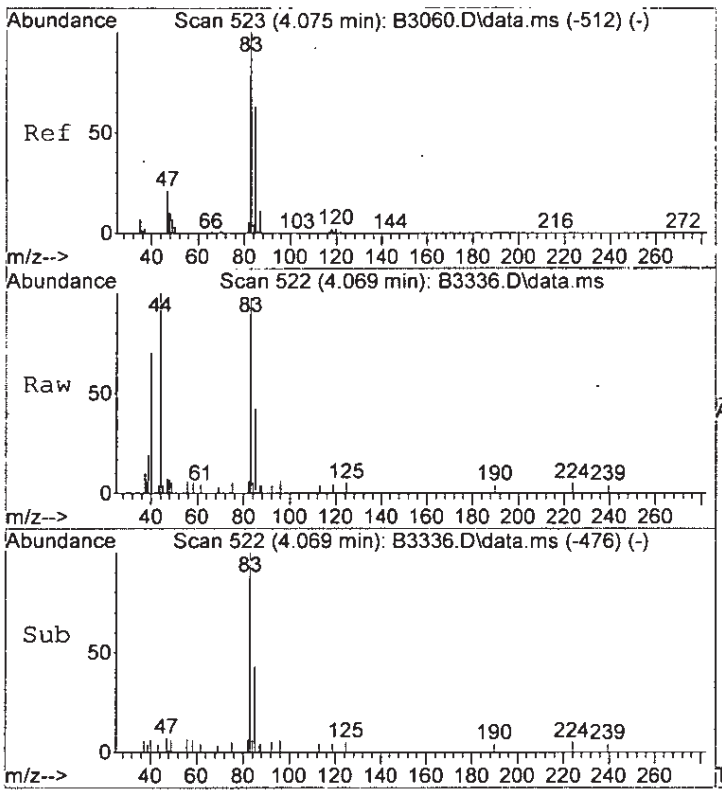


#34
2-Butanone
Concen: 0.68 ug/L
RT: 3.655 min Scan# 454
Delta R.T. 0.018 min
Lab File: B3336.D
Acq: 26 Sep 2015 6:41 pm

Tgt Ion: 43 Resp: 677

Ion	Ratio	Lower	Upper
43	100		
72	19.5	12.8	52.8
57	9.0	0.0	28.2

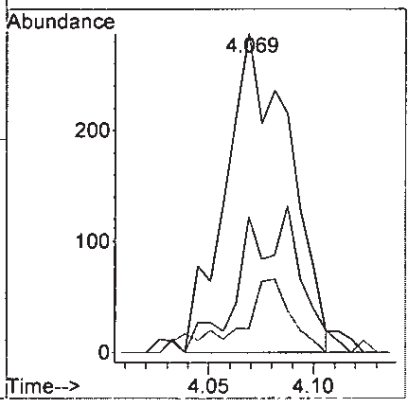


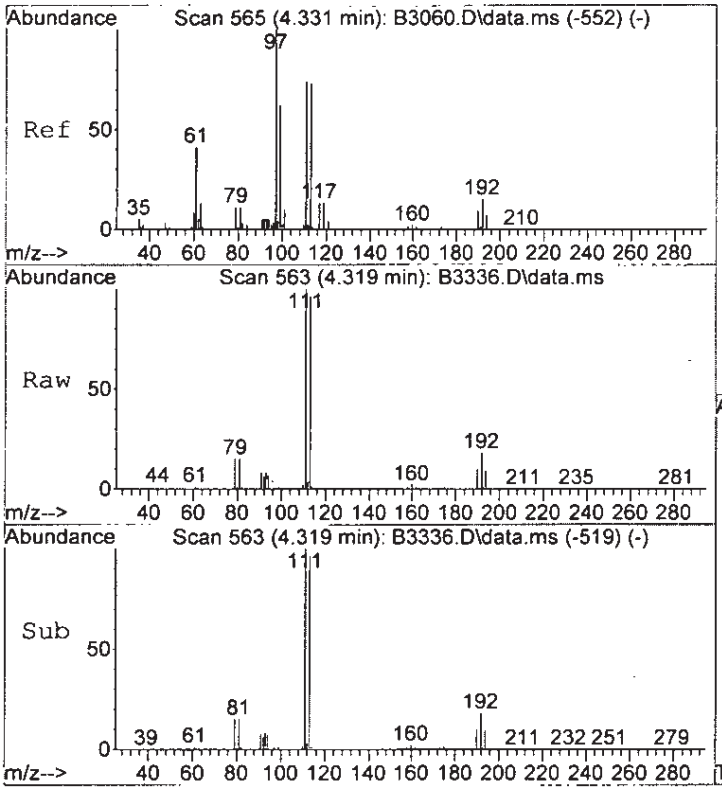


#39
Chloroform
Concen: 0.23 ug/L
RT: 4.069 min Scan# 522
Delta R.T. -0.006 min
Lab File: B3336.D
Acq: 26 Sep 2015 6:41 pm

Tgt Ion: 83 Resp: 607

Ion	Ratio	Lower	Upper
83	100		
85	42.5	44.8	84.8#
47	7.3	1.1	41.1

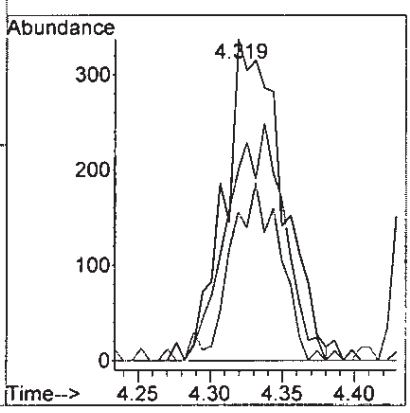


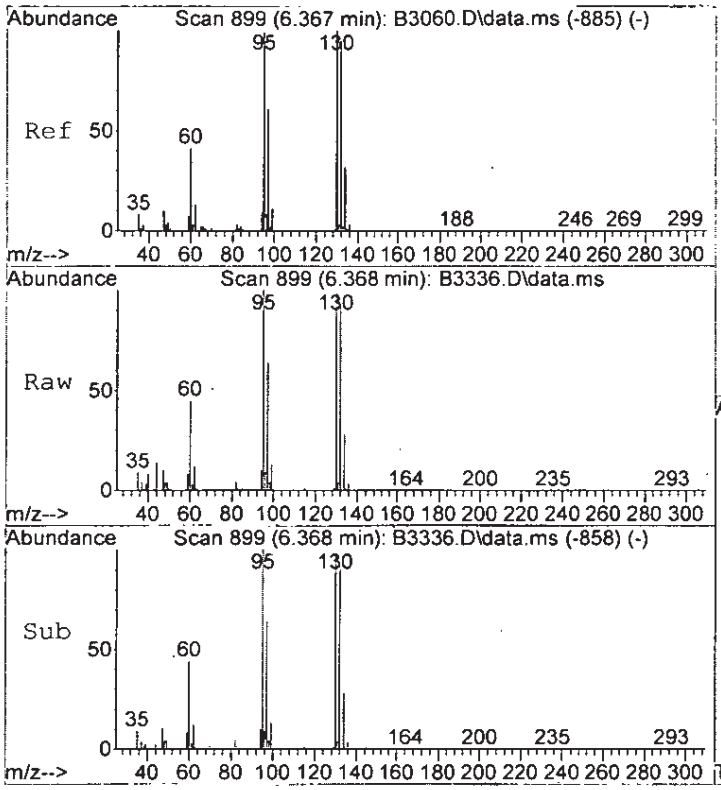


#40
1,1,1-Trichloroethane
Concen: 0.44 ug/L
RT: 4.319 min Scan# 563
Delta R.T. -0.012 min
Lab File: B3336.D
Acq: 26 Sep 2015 6:41 pm

Tgt Ion: 97 Resp: 934

Ion	Ratio	Lower	Upper
97	100		
99	59.3	42.7	82.7
61	46.3	24.9	64.9

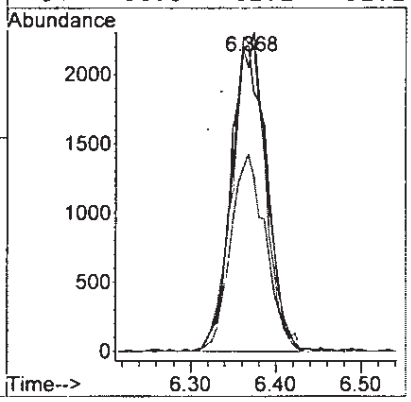




#53
Trichloroethene
Concen: 3.97 ug/L
RT: 6.368 min Scan# 899
Delta R.T. 0.000 min
Lab File: B3336.D
Acq: 26 Sep 2015 6:41 pm

Tgt Ion:130 Resp: 6396

Ion	Ratio	Lower	Upper
130	100		
132	93.0	76.3	116.3
95	101.2	71.7	111.7
97	64.5	41.2	81.2



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15 1505
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 15:52
Sample Name:	FB-092315	**Units:**	µg/L
Lab Code:	R1508047-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3329.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85-122	9/26/15 15:52	
Dibromofluoromethane	93	89-119	9/26/15 15:52	
Toluene-d8	95	87-121	9/26/15 15:52	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3329.D
Acq On : 26 Sep 2015 3:52 pm
Operator : B Wojtasiewicz
Sample : R1508047-011|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 01 13:05:38 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	146944	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	227623	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.610	117	201542	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	100577	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	66752	46.26	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 92.52%			
47) surr1,1,2-dichloroetha...	4.898	65	80731	49.17	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.34%			
64) SURR3,Toluene-d8	8.690	98	266393	47.32	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 94.64%			
69) SURR2,BFB	11.994	95	100817	47.08	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.16%			
Target Compounds						Qvalue
15) Acetone	1.899	43	1641	2.38	ug/L	93

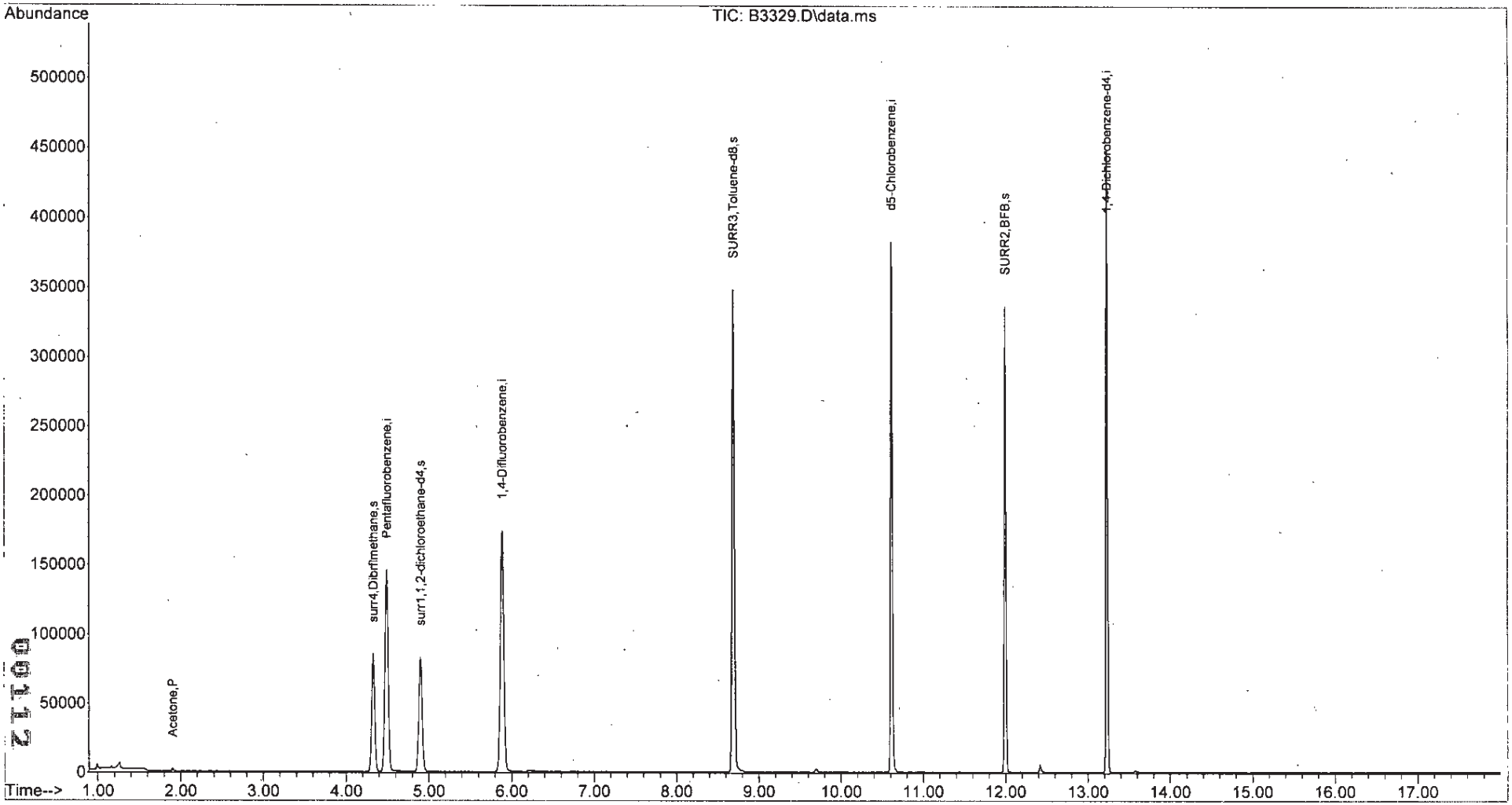
(#) = qualifier out of range (m) = manual integration (+) = signals summed

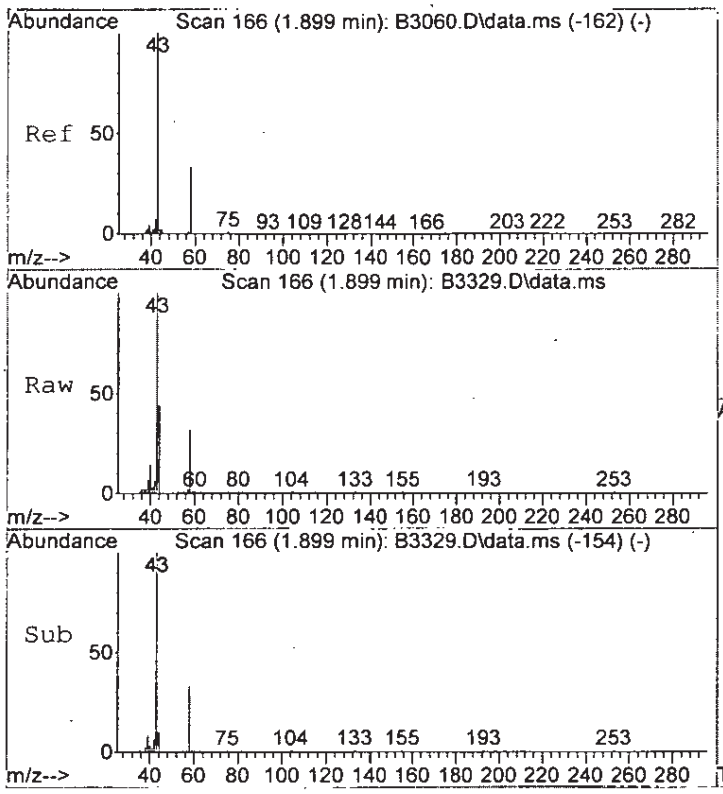
BA 10/1

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3329.D
Acq On : 26 Sep 2015 3:52 pm
Operator : B Wojtasiewicz
Sample : R1508047-011|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 01 13:05:38 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

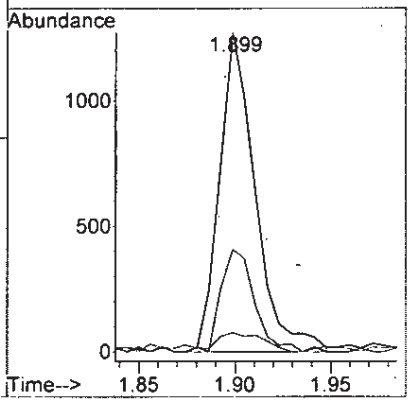




#15
Acetone
Concen: 2.38 ug/L
RT: 1.899 min Scan# 166
Delta R.T. 0.001 min
Lab File: B3329.D
Acq: 26 Sep 2015 3:52 pm

Tgt Ion: 43 Resp: 1641

Ion	Ratio	Lower	Upper
43	100		
58	32.0	15.5	55.5
42	5.9	0.0	29.2



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	9/23/15
Sample Matrix:	Water	**Date Received:**	9/25/15
		Date Analyzed:	9/26/15 19:05
Sample Name:	DUP092315	**Units:**	µg/L
Lab Code:	R1508047-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3337.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**3.6**	J	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**0.78**	J	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	**1.3**	J	5.0	0.30	
79-01-6	Trichloroethene (TCE)	**17**		5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**3.1**	J	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	9/26/15 19:05	
Dibromofluoromethane	93	89-119	9/26/15 19:05	
Toluene-d8	97	87-121	9/26/15 19:05	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3337.D
Acq On : 26 Sep 2015 7:05 pm
Operator : B Wojtasiewicz
Sample : R1508047-012|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 01 13:24:16 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	152670	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	238240	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	210269	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	103881	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	70176	46.47	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 92.94%			
47) surr1,1,2-dichloroetha...	4.898	65	85971	50.03	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.06%			
64) SURR3,Toluene-d8	8.690	98	286127	48.56	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.12%			
69) SURR2,BFB	11.994	95	107480	47.96	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.92%			
Target Compounds						Qvalue
10) Freon 123a	1.710	67	5802	3.41	ug/L	94
14) Freon 113	1.868	101	10002	7.44	ug/L	95
15) Acetone	1.905	43	2085	2.91	ug/L	92
17) Iodomethane	1.960	142	283	0.94	ug/L	97
27) 1,1-Diclethane	2.893	63	1986	0.78	ug/L	95
33) cis-1,2-Dichloroethene	3.587	96	5141	3.08	ug/L	94
34) 2-Butanone	3.661	43	352	0.35	ug/L	84
40) 1,1,1-Trichloroethane	4.331	97	7730	3.61	ug/L	97
53) Trichloroethene	6.367	130	27356	16.89	ug/L	97
71) Tetrachloroethene	9.556	164	1617	1.30	ug/L #	87

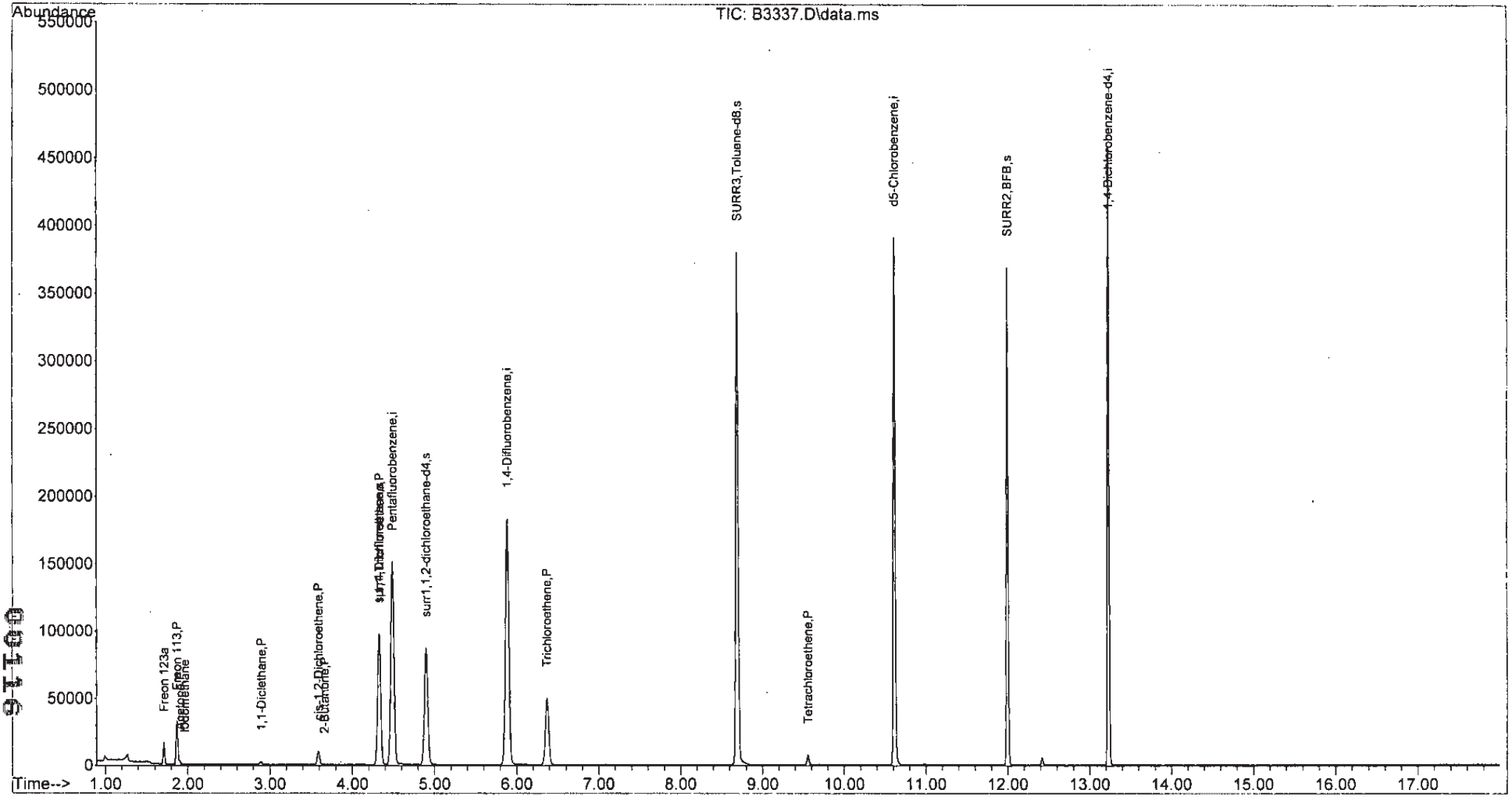
(#) = qualifier out of range (m) = manual integration (+) = signals summed

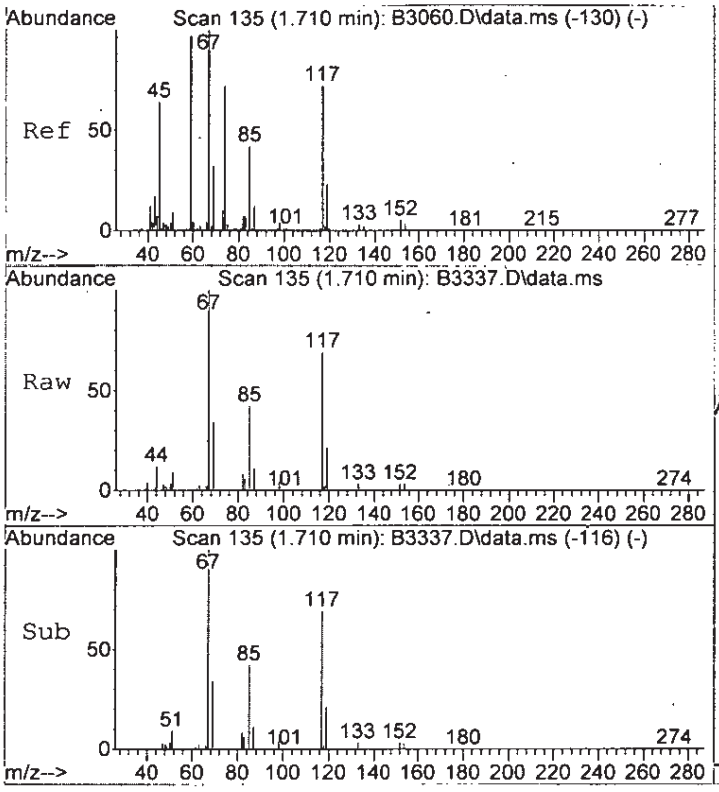
BA 10/1

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3337.D
Acq On : 26 Sep 2015 7:05 pm
Operator : B Wojtasiewicz
Sample : R1508047-012|1 Inst : MSVOA14
Misc : VERINA 6646 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 01 13:24:16 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

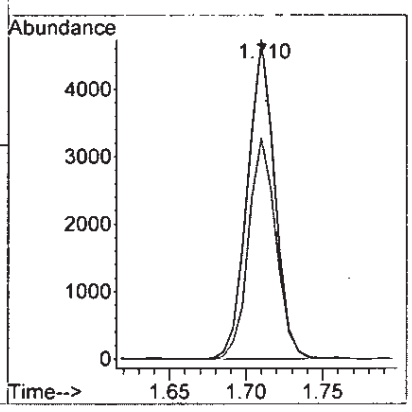


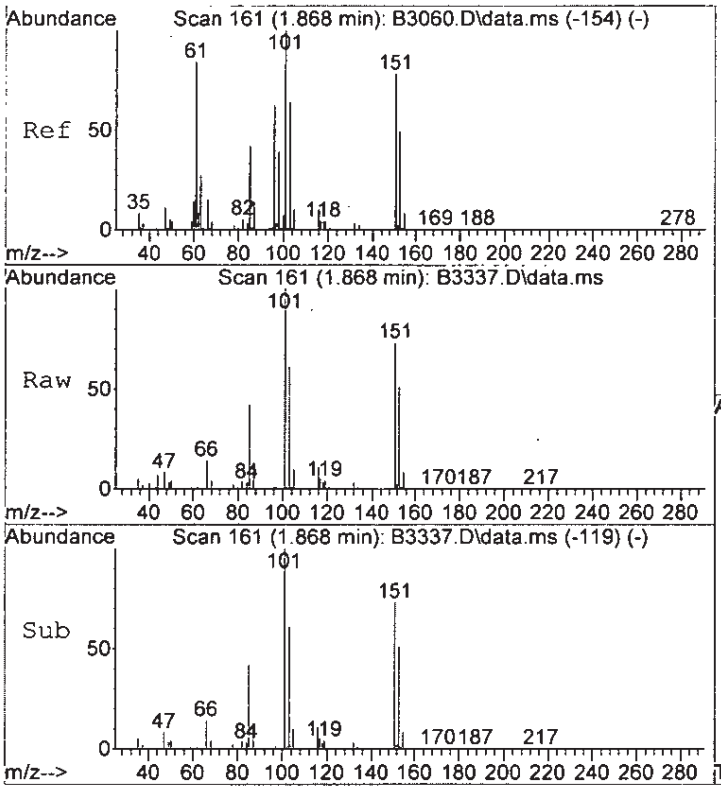


#10
Freon 123a
Concen: 3.41 ug/L
RT: 1.710 min Scan# 135
Delta R.T. 0.000 min
Lab File: B3337.D
Acq: 26 Sep 2015 7:05 pm

Tgt Ion: 67 Resp: 5802

Ion	Ratio	Lower	Upper
67	100		
117	69.1	54.5	94.5

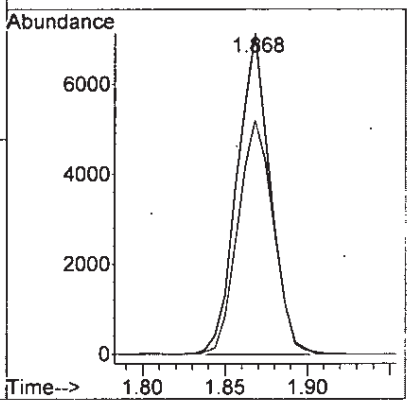


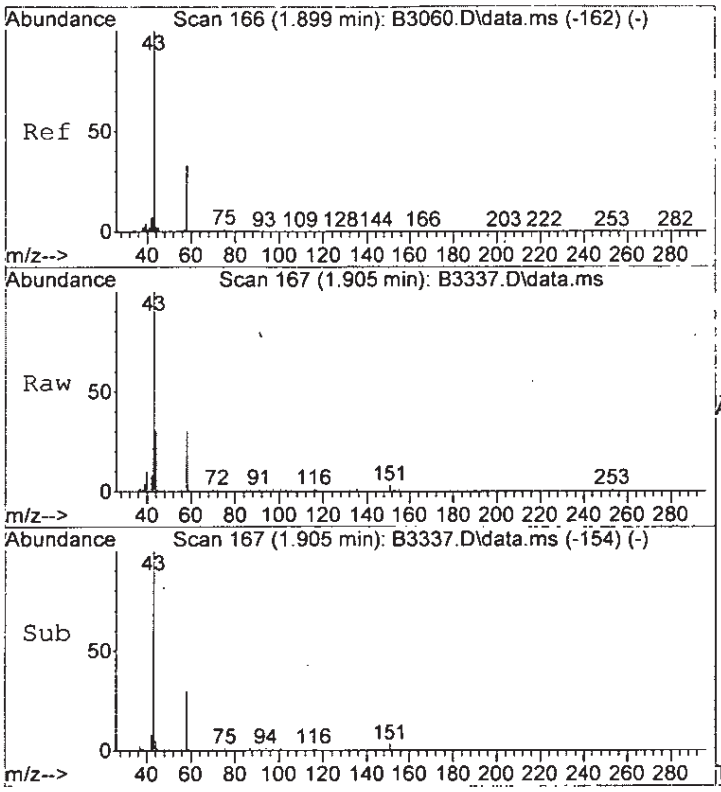


#14
Freon 113
Concen: 7.44 ug/L
RT: 1.868 min Scan# 161
Delta R.T. 0.000 min
Lab File: B3337.D
Acq: 26 Sep 2015 7:05 pm

Tgt Ion:101 Resp: 10002

Ion	Ratio	Lower	Upper
101	100		
151	72.9	56.9	96.9

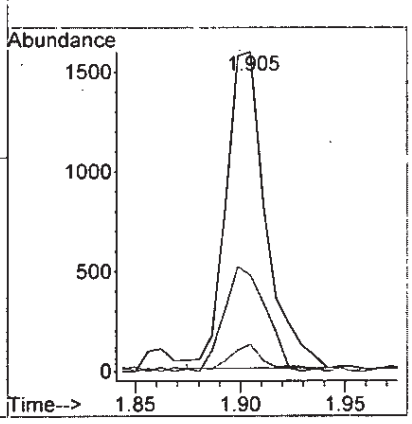


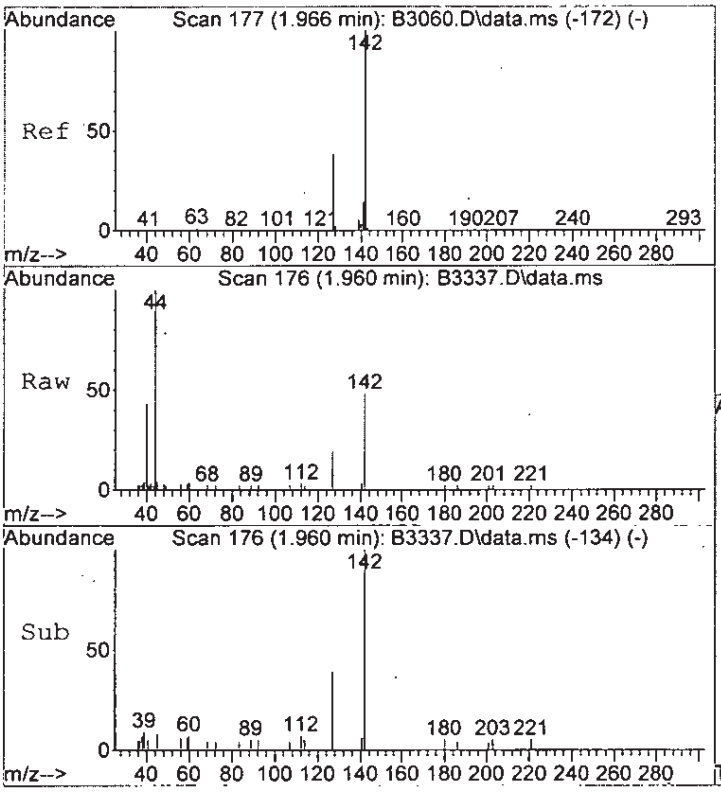


#15
Acetone
Concen: 2.91 ug/L
RT: 1.905 min Scan# 167
Delta R.T. 0.007 min
Lab File: B3337.D
Acq: 26 Sep 2015 7:05 pm

Tgt Ion: 43 Resp: 2085

Ion	Ratio	Lower	Upper
43	100		
58	30.1	15.5	55.5
42	8.4	0.0	29.2

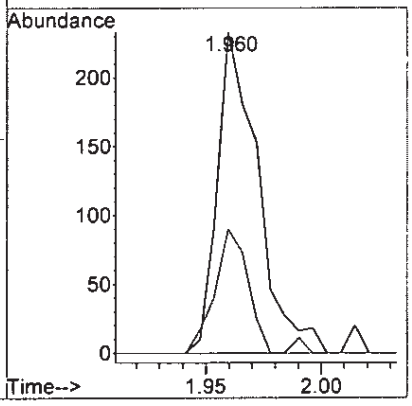


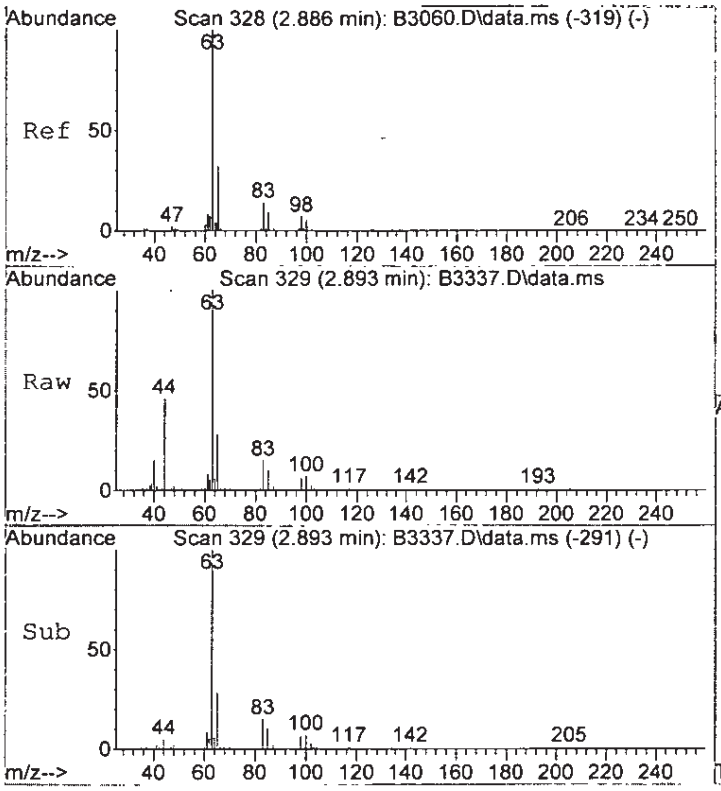


#17
Iodomethane
Concen: 0.94 ug/L
RT: 1.960 min Scan# 176
Delta R.T. -0.005 min
Lab File: B3337.D
Acq: 26 Sep 2015 7:05 pm

Tgt Ion:142 Resp: 283

Ion	Ratio	Lower	Upper
142	100		
127	38.6	20.3	60.3

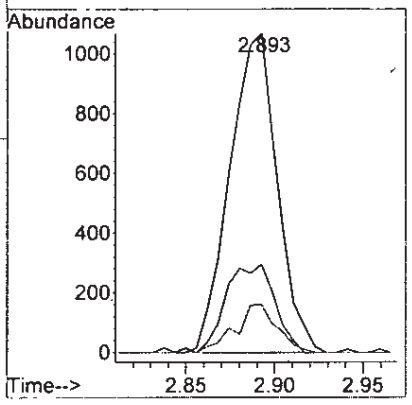


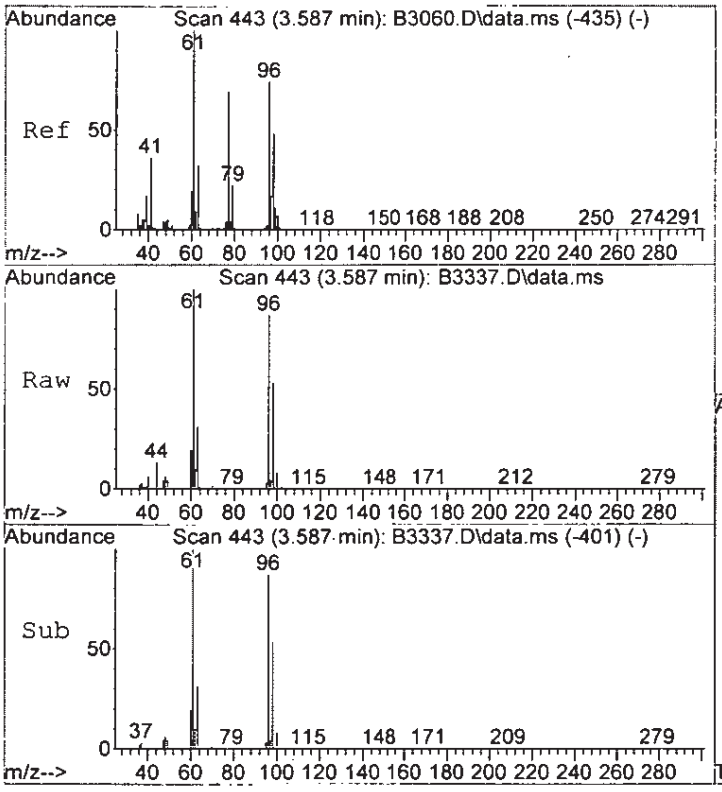


#27
1,1-Diclethane
Concen: 0.78 ug/L
RT: 2.893 min Scan# 329
Delta R.T. 0.006 min
Lab File: B3337.D
Acq: 26 Sep 2015 7:05 pm

Tgt Ion: 63 Resp: 1986

Ion	Ratio	Lower	Upper
63	100		
65	27.5	11.9	51.9
83	15.0	0.0	35.0

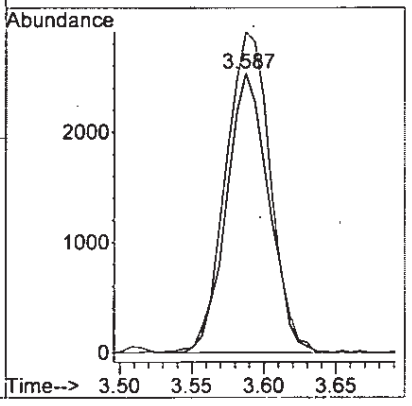


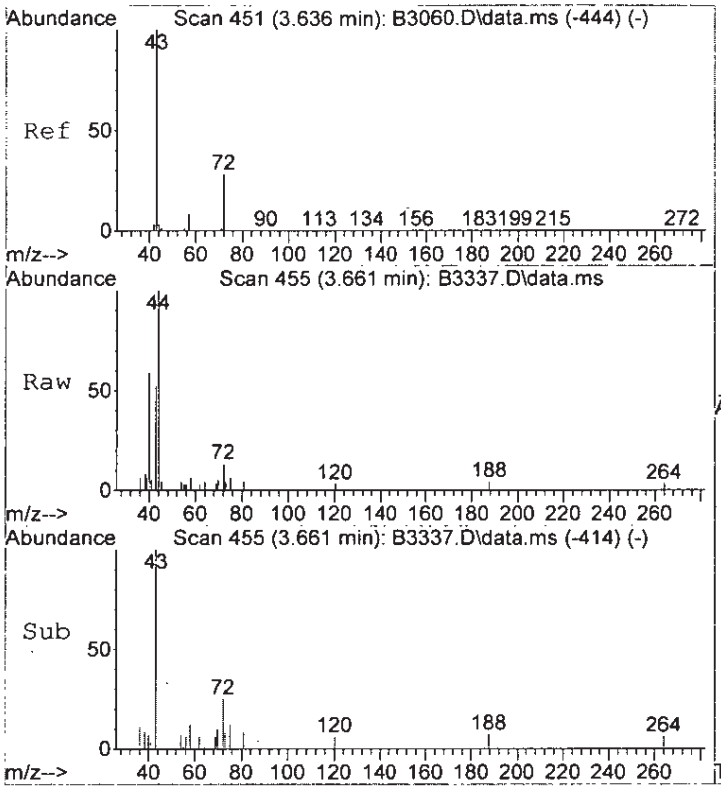


#33
cis-1,2-Dichloroethene
Concen: 3.08 ug/L
RT: 3.587 min Scan# 443
Delta R.T. 0.000 min
Lab File: B3337.D
Acq: 26 Sep 2015 7:05 pm

Tgt Ion: 96 Resp: 5141

Ion	Ratio	Lower	Upper
96	100		
61	114.8	101.0	141.0

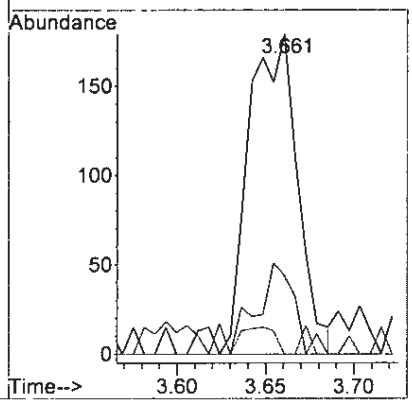


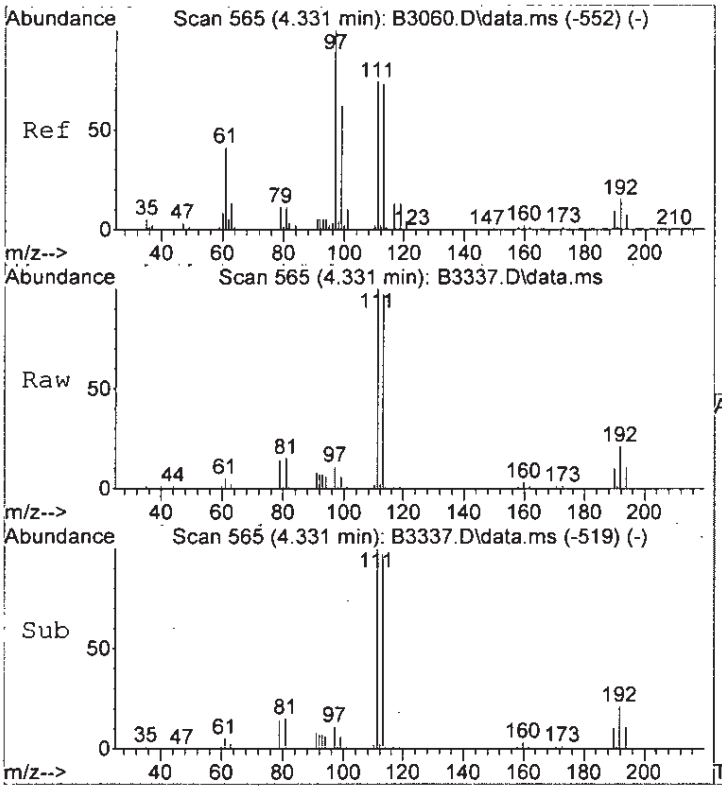


#34
2-Butanone
Concen: 0.35 ug/L
RT: 3.661 min Scan# 455
Delta R.T. 0.024 min
Lab File: B3337.D
Acq: 26 Sep 2015 7:05 pm

Tgt Ion: 43 Resp: 352

Ion	Ratio	Lower	Upper
43	100		
72	24.6	12.8	52.8
57	0.0	0.0	28.2

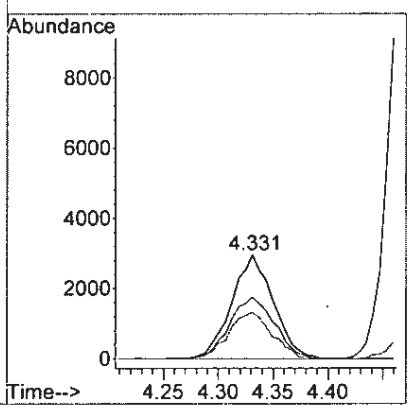


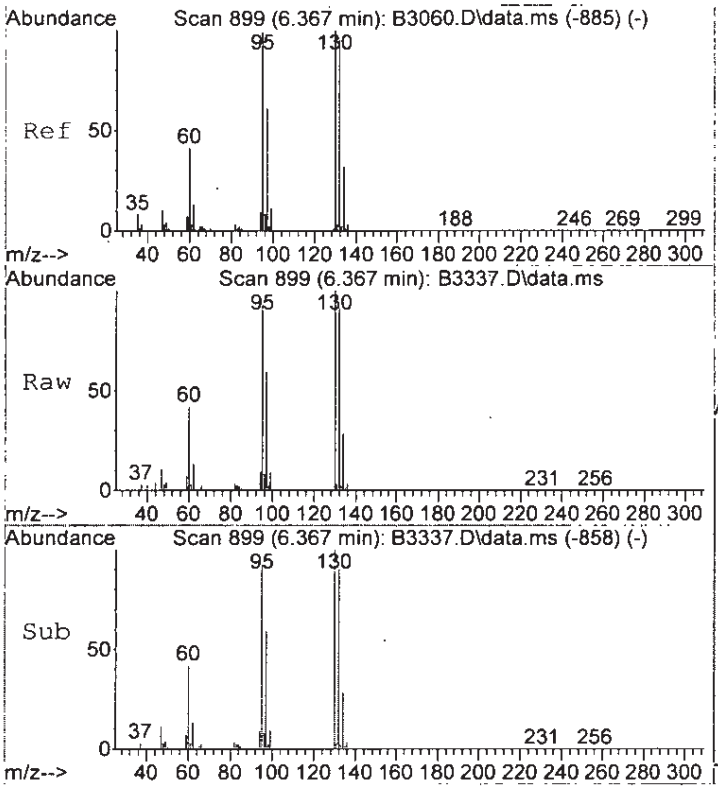


#40
1,1,1-Trichloroethane
Concen: 3.61 ug/L
RT: 4.331 min Scan# 565
Delta R.T. 0.000 min
Lab File: B3337.D
Acq: 26 Sep 2015 7:05 pm

Tgt Ion: 97 Resp: 7730

Ion	Ratio	Lower	Upper
97	100		
99	59.2	42.7	82.7
61	44.7	24.9	64.9

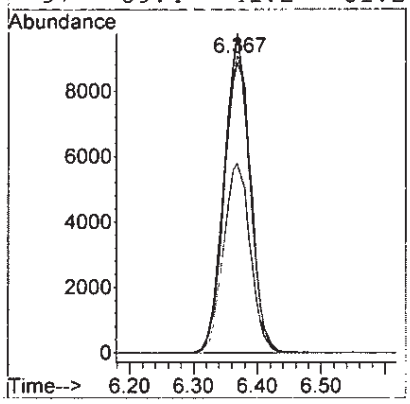


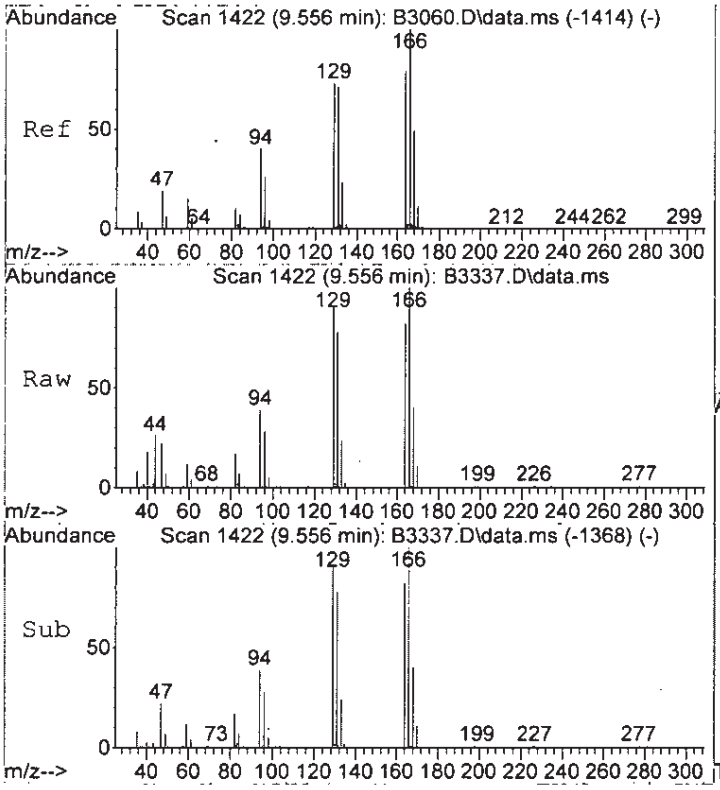


#53
Trichloroethene
Concen: 16.89 ug/L
RT: 6.367 min Scan# 899
Delta R.T. 0.000 min
Lab File: B3337.D
Acq: 26 Sep 2015 7:05 pm

Tgt Ion:130 Resp: 27356

Ion	Ratio	Lower	Upper
130	100		
132	90.9	76.3	116.3
95	93.2	71.7	111.7
97	59.4	41.2	81.2

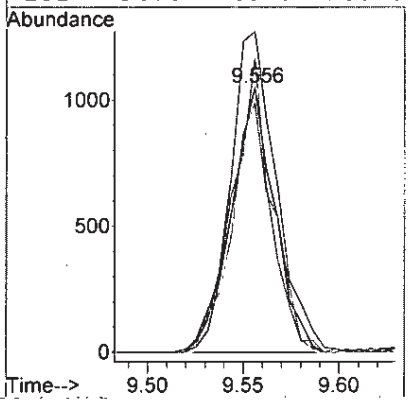




#71
Tetrachloroethene
Concen: 1.30 ug/L
RT: 9.556 min Scan# 1422
Delta R.T. 0.000 min
Lab File: B3337.D
Acq: 26 Sep 2015 7:05 pm

Tgt Ion:164 Resp: 1617

Ion	Ratio	Lower	Upper
164	100		
166	122.3	104.3	144.3
129	110.8	65.1	105.1#
131	94.0	60.8	100.8



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Initial Calibration - Summary Report

Calibration ID: RC1500091 9/10/15 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,1,1,2-Tetrachloroethane	T	Average RF			0.3582	<=20	11.6
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.7563	<=20	4.0
1,1,2,2-Tetrachloroethane	T	Linear	1/X2	0.300	0.8529	>=0.99	0.9959
1,1,2-Trichloroethane	T	Average RF		0.100	0.3308	<=20	7.5
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.4565	<=20	9.9
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.9591	<=20	6.1
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.4091	<=20	6.5
1,1-Dichloropropene	T	Average RF			0.4503	<=20	5.3
1,2,3-Trichlorobenzene	T	Average RF			1.260	<=20	8.1
1,2,3-Trichloropropane	T	Average RF			0.3313	<=20	6.0
1,2,4-Trichlorobenzene	T	Average RF		0.200	1.272	<=20	10.5
1,2,4-Trimethylbenzene	T	Average RF			2.604	<=20	12.9
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF		0.050	0.2540	<=20	11.9
1,2-Dibromoethane	T	Average RF		0.100	0.4077	<=20	4.5
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	T	Average RF			0.5881	<=20	7.0
1,2-Dichlorobenzene	T	Average RF		0.400	1.591	<=20	8.4
1,2-Dichloroethane	T	Average RF		0.100	0.6042	<=20	4.0
1,2-Dichloropropane	T	Average RF		0.100	0.3899	<=20	4.7
1,3,5-Trichlorobenzene	T	Average RF			1.293	<=20	9.6
1,3,5-Trimethylbenzene	T	Average RF			2.553	<=20	12.4
1,3-Dichlorobenzene	T	Average RF		0.600	1.577	<=20	7.7
1,3-Dichloropropane	T	Average RF			0.6616	<=20	6.0
1,4-Dichlorobenzene	T	Average RF		0.500	1.691	<=20	13.0
1,4-Dioxane	T	Average RF			0.008469	<=20	7.7
1-Butanol	T	Average RF			0.02417	<=20	15.2
1-Chloro-4-(trifluoromethyl)benzene	T	Average RF			0.5369	<=20	9.4
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.6050	<=20	6.0
2,2-Dichloropropane	T	Average RF			0.7109	<=20	4.8
2,3,6-Trichlorotoluene	T	Average RF			0.8839	<=20	11.2
2,4,5-Trichlorotoluene	T	Average RF			0.9763	<=20	7.0
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	T	Average RF			1.427	<=20	10.9
2,4-Dichlorobenzotrifluoride	T	Average RF			0.8332	<=20	16.0
2,5-Dichlorobenzotrifluoride	T	Average RF			0.8980	<=20	12.5
2-Butanone (MEK)	T	Average RF		0.05	0.5384	<=20	2.9
2-Chloro-1,3-butadiene	T	Average RF			1.050	<=20	2.7
2-Chlorobenzotrifluoride	T	Average RF			0.6002	<=20	6.2
2-Chloroethyl Vinyl Ether	T	Average RF			0.2903	<=20	4.4
2-Chlorotoluene	T	Average RF			2.205	<=20	10.7
2-Hexanone	T	Average RF		0.05	0.6051	<=20	9.2
2-Methyl-1-propanol	T	Average RF			0.04562	<=20	11.1
2-Methyl-2-propanol	T	Average RF			0.1253	<=20	8.5
2-Nitropropane	T	Average RF			0.1656	<=20	15.6
2-Propanol	T	Average RF			0.09072	<=20	7.5
3,4- and 2,3-Dichlorotoluene Coelution	T	Average RF			1.576	<=20	12.6
3,4-Dichlorobenzotrifluoride	T	Average RF			0.8969	<=20	16.5
3-Chloro-1-propene	T	Average RF			0.2608	<=20	9.8
3-Chlorobenzotrifluoride	T	Average RF			0.6049	<=20	7.8
3-Chlorotoluene	T	Average RF			2.291	<=20	9.2
4-Chlorotoluene	T	Average RF			2.615	<=20	13.2
4-Isopropyltoluene	T	Average RF			2.686	<=20	12.7
4-Methyl-2-pentanone	T	Average RF		0.05	0.7046	<=20	6.3
Acetone	T	Average RF		0.05	0.4277	<=20	7.2

00123

Initial Calibration - Summary Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Acetonitrile	T	Average RF			0.08955	<=20	13.7
Acrolein	T	Average RF			0.1599	<=20	4.4
Acrylonitrile	T	Average RF			0.3354	<=20	8.7
Benzene	T	Average RF		0.500	1.339	<=20	6.1
Bromobenzene	T	Average RF			0.8371	<=20	8.0
Bromochloromethane	T	Average RF			0.3268	<=20	2.9
Bromodichloromethane	T	Average RF		0.200	0.4587	<=20	4.6
Bromoform	T	Average RF		0.100	0.2925	<=20	17.7
Bromomethane	T	Quadratic	1/X	0.100	0.2948	>=0.99	0.9996
Carbon Disulfide	T	Average RF		0.100	1.249	<=20	8.4
Carbon Tetrachloride	T	Average RF		0.05	0.1347	<=20	8.0
Chlorobenzene	T	Average RF		0.500	1.039	<=20	7.7
Chloroethane	T	Average RF		0.100	0.3129	<=20	7.4
Chloroform	T	Average RF		0.200	0.8646	<=20	5.5
Chloromethane	T	Average RF		0.100	0.6035	<=20	9.3
Cyclohexane	T	Average RF		0.100	0.4989	<=20	15.1
Cyclohexanone	T	Average RF			0.1151	<=20	12.5
Dibromochloromethane	T	Average RF		0.100	0.3832	<=20	13.0
Dibromomethane	T	Average RF			0.2371	<=20	5.1
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.4428	<=20	8.6
Dichlorofluoromethane (CFC 21)	T	Average RF			0.8860	<=20	4.1
Dichloromethane	T	Average RF		0.100	0.5125	<=20	10.0
Diethyl Ether	T	Average RF			0.4916	<=20	3.2
Diisopropyl Ether	T	Average RF			2.200	<=20	3.9
Ethyl Methacrylate	T	Average RF			0.5591	<=20	6.6
Ethyl tert-Butyl Ether	T	Average RF			1.835	<=20	3.0
Ethylbenzene	T	Average RF		0.100	0.5528	<=20	4.3
Hexachlorobutadiene	T	Average RF			0.5282	<=20	11.1
Iodomethane	T	Quadratic	1/X		0.5227	>=0.99	0.9995
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.667	<=20	9.2
Methacrylonitrile	T	Average RF			0.3144	<=20	7.9
Methyl Acetate	T	Average RF		0.100	0.7730	<=20	6.3
Methyl Methacrylate	T	Average RF			0.3242	<=20	5.3
Methyl tert-Butyl Ether	T	Average RF		0.100	1.697	<=20	5.1
Methylcyclohexane	T	Average RF		0.100	0.5532	<=20	8.3
Naphthalene	T	Average RF			3.522	<=20	14.9
Propionitrile	T	Average RF			0.1444	<=20	6.3
Styrene	T	Average RF		0.300	1.104	<=20	5.0
Tetrachloroethene (PCE)	T	Average RF		0.200	0.3223	<=20	9.7
Tetrahydrofuran (THF)	T	Average RF			0.3707	<=20	14.7
Toluene	T	Average RF		0.400	1.394	<=20	7.4
Trichloroethene (TCE)	T	Average RF		0.200	0.3973	<=20	10.1
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.6721	<=20	6.6
Vinyl Acetate	T	Average RF			0.09690	<=20	17.5
Vinyl Chloride	T	Average RF		0.100	0.5223	<=20	9.5
cis-1,2-Dichloroethene	T	Average RF		0.100	0.5234	<=20	12.1
cis-1,3-Dichloropropene	T	Average RF		0.200	0.5394	<=20	7.2
m,p-Xylenes	T	Average RF		0.100	0.6504	<=20	7.0
n-Butyl Acetate	T	Average RF			1.087	<=20	7.7
n-Butylbenzene	T	Average RF			2.636	<=20	11.3
n-Heptane	T	Average RF			0.6365	<=20	18.6
n-Propylbenzene	T	Average RF			3.601	<=20	17.2

00124

Initial Calibration - Summary Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
o-Xylene	T	Average RF		0.300	0.6773	<=20	6.3
sec-Butylbenzene	T	Average RF			3.162	<=20	13.8
tert-Amyl Methyl Ether	T	Average RF			1.094	<=20	3.2
tert-Butylbenzene	T	Average RF			2.171	<=20	9.7
trans-1,2-Dichloroethene	T	Average RF		0.100	0.4501	<=20	6.3
trans-1,3-Dichloropropene	T	Average RF		0.100	0.4982	<=20	11.1
trans-1,4-Dichloro-2-butene	T	Average RF			0.2069	<=20	17.0
1,2-Dichloroethane-d4	S	Average RF			0.4574	<=20	6.1
4-Bromofluorobenzene	S	Average RF			0.4856	<=20	5.6
Dibromofluoromethane	S	Average RF			0.3226	<=20	1.7
Toluene-d8	S	Average RF			1.176	<=20	6.5

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1500091-01	0.5 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1991.D	9/10/15 17:41
02	RC1500091-02	1.0 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1992.D	9/10/15 18:05
03	RC1500091-03	2.0 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1993.D	9/10/15 18:29
04	RC1500091-04	5.0 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1994.D	9/10/15 18:54
05	RC1500091-05	20 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1995.D	9/10/15 19:18
06	RC1500091-06	50 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1996.D	9/10/15 19:42
07	RC1500091-07	100 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1997.D	9/10/15 20:06
08	RC1500091-08	150 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1998.D	9/10/15 20:31
09	RC1500091-09	200 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1999.D	9/10/15 20:55

Analyte **Curve Fit** **Weighting**

1,1,1,2-Tetrachloroethane Average RF RSD = 11.6 Average RF = 0.3582

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3054	02	1.000	0.2852	03	2.000	0.3367	04	5.000	0.3497
05	20.000	0.3877	06	50.000	0.4017	07	100.000	0.3942	08	150.000	0.3811
09	200.000	0.3819									

1,1,1-Trichloroethane (TCA) Average RF RSD = 4.0 Average RF = 0.7563

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7653	02	1.000	0.7165	03	2.000	0.7402	04	5.000	0.7376
05	20.000	0.7945	06	50.000	0.8103	07	100.000	0.7639	08	150.000	0.7330
09	200.000	0.7456									

1,1,2,2-Tetrachloroethane Linear 1/X2 R2 = 0.9959 Y = 0.9532 X + -0.004762

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5119	02	1.000	0.6748	03	2.000	0.8203	04	5.000	0.7832
05	20.000	0.9515	06	50.000	1.001	07	100.000	0.9825	08	150.000	0.9944
09	200.000	0.9572									

1,1,2-Trichloroethane Average RF RSD = 7.5 Average RF = 0.3308

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2727	02	1.000	0.3365	03	2.000	0.3538	04	5.000	0.3140
05	20.000	0.3433	06	50.000	0.3500	07	100.000	0.3341	08	150.000	0.3417
09	200.000	0.3310									

1,1,2-Trichlorotrifluoroethane Average RF RSD = 9.9 Average RF = 0.4565

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5657	02	1.000	0.4352	03	2.000	0.4733	04	5.000	0.4357
05	20.000	0.4588	06	50.000	0.4656	07	100.000	0.4261	08	150.000	0.4206
09	200.000	0.4277									

1,1-Dichloroethane (1,1-DCA) Average RF RSD = 6.1 Average RF = 0.9591

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.043	02	1.000	1.014	03	2.000	1.021	04	5.000	0.9414
05	20.000	0.9441	06	50.000	0.9775	07	100.000	0.9161	08	150.000	0.8827
09	200.000	0.8908									

1,1-Dichloroethene (1,1-DCE) Average RF RSD = 6.5 Average RF = 0.4091

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4464	02	1.000	0.4541	03	2.000	0.4083	04	5.000	0.4072
05	20.000	0.4037	06	50.000	0.4128	07	100.000	0.3900	08	150.000	0.3766
09	200.000	0.3827									

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte — **Curve Fit** — **Weighting**

1,1-Dichloropropene — Average RF — RSD = 5.3 — Average RF = 0.4503

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4367	02	1.000	0.4986	03	2.000	0.4625	04	5.000	0.4373
05	20.000	0.4585	06	50.000	0.4661	07	100.000	0.4419	08	150.000	0.4219
09	200.000	0.4289									

1,2,3-Trichlorobenzene — Average RF — RSD = 8.1 — Average RF = 1.260

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.216	02	1.000	1.413	03	2.000	1.310	04	5.000	1.345
05	20.000	1.314	06	50.000	1.307	07	100.000	1.196	08	150.000	1.129
09	200.000	1.112									

1,2,3-Trichloropropane — Average RF — RSD = 6.0 — Average RF = 0.3313

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3685	03	2.000	0.3077	04	5.000	0.3417	05	20.000	0.3455
06	50.000	0.3318	07	100.000	0.3155	08	150.000	0.3204	09	200.000	0.3194

1,2,4-Trichlorobenzene — Average RF — RSD = 10.5 — Average RF = 1.272

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.494	02	1.000	1.454	03	2.000	1.283	04	5.000	1.262
05	20.000	1.268	06	50.000	1.281	07	100.000	1.179	08	150.000	1.126
09	200.000	1.101									

1,2,4-Trimethylbenzene — Average RF — RSD = 12.9 — Average RF = 2.604

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.769	02	1.000	3.064	03	2.000	2.749	04	5.000	2.716
05	20.000	2.785	06	50.000	2.749	07	100.000	2.427	08	150.000	2.149
09	200.000	2.026									

1,2-Dibromo-3-chloropropane (DBCP) — Average RF — RSD = 11.9 — Average RF = 0.2540

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2056	02	1.000	0.2595	03	2.000	0.2300	04	5.000	0.2191
05	20.000	0.2470	06	50.000	0.2767	07	100.000	0.2764	08	150.000	0.2827
09	200.000	0.2891									

1,2-Dibromoethane — Average RF — RSD = 4.5 — Average RF = 0.4077

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3806	02	1.000	0.4244	03	2.000	0.3809	04	5.000	0.4065
05	20.000	0.4310	06	50.000	0.4275	07	100.000	0.4123	08	150.000	0.4054
09	200.000	0.4009									

1,2-Dichloro-1,1,2-trifluoroethane (CFC — Average RF — RSD = 7.0 — Average RF = 0.5881

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5548	02	1.000	0.6337	03	2.000	0.6688	04	5.000	0.5958
05	20.000	0.5543	06	50.000	0.6029	07	100.000	0.5593	08	150.000	0.5645
09	200.000	0.5584									

1,2-Dichlorobenzene — Average RF — RSD = 8.4 — Average RF = 1.591

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.812	02	1.000	1.688	03	2.000	1.625	04	5.000	1.630
05	20.000	1.622	06	50.000	1.622	07	100.000	1.522	08	150.000	1.415
09	200.000	1.382									

00127

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte	Curve Fit	Weighting

1,2-Dichloroethane — Average RF — RSD = 4.0 — Average RF = 0.6042

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6183	02	1.000	0.5873	03	2.000	0.6101	04	5.000	0.5858
05	20.000	0.6410	06	50.000	0.6371	07	100.000	0.6009	08	150.000	0.5788
09	200.000	0.5783									

1,2-Dichloroethane-d4 — Average RF — RSD = 6.1 — Average RF = 0.4574

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.4973	05	20.000	0.4270	06	50.000	0.4678	07	100.000	0.4585
08	200.000	0.4364									

1,2-Dichloropropane — Average RF — RSD = 4.7 — Average RF = 0.3899

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3608	02	1.000	0.4112	03	2.000	0.3831	04	5.000	0.4119
05	20.000	0.4011	06	50.000	0.4057	07	100.000	0.3857	08	150.000	0.3719
09	200.000	0.3779									

1,3,5-Trichlorobenzene — Average RF — RSD = 9.6 — Average RF = 1.293

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.513	02	1.000	1.468	03	2.000	1.300	04	5.000	1.320
05	20.000	1.268	06	50.000	1.215	07	100.000	1.216	08	150.000	1.170
09	200.000	1.166									

1,3,5-Trimethylbenzene — Average RF — RSD = 12.4 — Average RF = 2.553

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.722	02	1.000	2.690	03	2.000	2.819	04	5.000	2.793
05	20.000	2.764	06	50.000	2.715	07	100.000	2.390	08	150.000	2.109
09	200.000	1.979									

1,3-Dichlorobenzene — Average RF — RSD = 7.7 — Average RF = 1.577

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.595	02	1.000	1.690	03	2.000	1.737	04	5.000	1.627
05	20.000	1.650	06	50.000	1.598	07	100.000	1.506	08	150.000	1.409
09	200.000	1.383									

1,3-Dichloropropane — Average RF — RSD = 6.0 — Average RF = 0.6616

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6022	02	1.000	0.7026	03	2.000	0.6999	04	5.000	0.6361
05	20.000	0.7132	06	50.000	0.6817	07	100.000	0.6578	08	150.000	0.6376
09	200.000	0.6238									

1,4-Dichlorobenzene — Average RF — RSD = 13.0 — Average RF = 1.691

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.067	02	1.000	1.993	03	2.000	1.666	04	5.000	1.745
05	20.000	1.674	06	50.000	1.650	07	100.000	1.538	08	150.000	1.458
09	200.000	1.423									

1,4-Dioxane — Average RF — RSD = 7.7 — Average RF = 0.008469

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.007616	04	100.000	0.008310	05	400.000	0.008081	06	1000.000	0.008230
07	2000.000	0.008528	08	3000.000	0.009691	09	4000.000	0.008825			

1-Butanol — Average RF — RSD = 15.2 — Average RF = 0.02417

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	50.000	0.01817	03	100.000	0.02046	04	250.000	0.02238	05	1000.000	0.02383
06	2500.000	0.02615	07	5000.000	0.02702	08	7500.000	0.02928	09	10000.000	0.02605

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

1-Chloro-4-(trifluoromethyl)benzene Average RF RSD = 9.4 Average RF = 0.5369

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6632	02	1.000	0.5558	03	2.000	0.5250	04	5.000	0.5369
05	20.000	0.5090	06	50.000	0.5057	07	100.000	0.5113	08	150.000	0.5216
09	200.000	0.5038									

2,2-Dichloro-1,1,1-trifluoroethane (CFC Average RF RSD = 6.0 Average RF = 0.6050

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5385	02	1.000	0.6397	03	2.000	0.6277	04	5.000	0.5764
05	20.000	0.5667	06	50.000	0.6472	07	100.000	0.6135	08	150.000	0.6247
09	200.000	0.6104									

2,2-Dichloropropane Average RF RSD = 4.8 Average RF = 0.7109

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7223	02	1.000	0.7534	03	2.000	0.7238	04	5.000	0.7164
05	20.000	0.7256	06	50.000	0.7472	07	100.000	0.6886	08	150.000	0.6604
09	200.000	0.6601									

2,3,6-Trichlorotoluene Average RF RSD = 11.2 Average RF = 0.8839

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.107	02	1.000	0.8722	03	2.000	0.8716	04	5.000	0.9352
05	20.000	0.9306	06	50.000	0.8485	07	100.000	0.8103	08	150.000	0.7881
09	200.000	0.7919									

2,4,5-Trichlorotoluene Average RF RSD = 7.0 Average RF = 0.9763

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.080	02	1.000	1.068	03	2.000	0.9696	04	5.000	0.9692
05	20.000	1.028	06	50.000	0.9455	07	100.000	0.9283	08	150.000	0.8978
09	200.000	0.9010									

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut Average RF RSD = 10.9 Average RF = 1.427

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.500	1.619	02	3.000	1.621	03	6.000	1.461	04	15.000	1.503
05	60.000	1.480	06	150.000	1.403	07	300.000	1.348	08	450.000	1.255
09	600.000	1.154									

2,4-Dichlorobenzotrifluoride Average RF RSD = 16.0 Average RF = 0.8332

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.165	02	1.000	0.8336	03	2.000	0.8384	04	5.000	0.8641
05	20.000	0.8024	06	50.000	0.7256	07	100.000	0.7513	08	150.000	0.7444
09	200.000	0.7736									

2,5-Dichlorobenzotrifluoride Average RF RSD = 12.5 Average RF = 0.8980

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.179	02	1.000	0.8336	03	2.000	0.9037	04	5.000	0.9347
05	20.000	0.8833	06	50.000	0.8384	07	100.000	0.8439	08	150.000	0.8452
09	200.000	0.8198									

2-Butanone (MEK) Average RF RSD = 2.9 Average RF = 0.5384

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.5144	03	2.000	0.5294	04	5.000	0.5352	05	20.000	0.5325
06	50.000	0.5384	07	100.000	0.5437	08	150.000	0.5700	09	200.000	0.5433

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

2-Chloro-1,3-butadiene Average RF RSD = 2.7 Average RF = 1.050

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.038	02	1.000	0.9949	03	2.000	1.062	04	5.000	1.035
05	20.000	1.075	06	50.000	1.095	07	100.000	1.053	08	150.000	1.063
09	200.000	1.037									

2-Chlorobenzotrifluoride Average RF RSD = 6.2 Average RF = 0.6002

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5907	02	1.000	0.6845	03	2.000	0.6133	04	5.000	0.6115
05	20.000	0.5850	06	50.000	0.5499	07	100.000	0.5817	08	150.000	0.6043
09	200.000	0.5811									

2-Chloroethyl Vinyl Ether Average RF RSD = 4.4 Average RF = 0.2903

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2805	02	1.000	0.2799	03	2.000	0.2691	04	5.000	0.2838
05	20.000	0.2935	06	50.000	0.3066	07	100.000	0.2985	08	150.000	0.3049
09	200.000	0.2961									

2-Chlorotoluene Average RF RSD = 10.7 Average RF = 2.205

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.490	02	1.000	2.252	03	2.000	2.351	04	5.000	2.281
05	20.000	2.377	06	50.000	2.334	07	100.000	2.090	08	150.000	1.873
09	200.000	1.800									

2-Hexanone Average RF RSD = 9.2 Average RF = 0.6051

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5083	02	1.000	0.5509	03	2.000	0.5583	04	5.000	0.6044
05	20.000	0.6285	06	50.000	0.6246	07	100.000	0.6444	08	150.000	0.6848
09	200.000	0.6417									

2-Methyl-1-propanol Average RF RSD = 11.1 Average RF = 0.04562

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.03996	02	20.000	0.04032	03	40.000	0.04491	04	100.000	0.04131
05	400.000	0.04331	06	1000.000	0.04693	07	2000.000	0.04867	08	3000.000	0.05511
09	4000.000	0.05004									

2-Methyl-2-propanol Average RF RSD = 8.5 Average RF = 0.1253

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.1066	02	20.000	0.1181	03	40.000	0.1183	04	100.000	0.1279
05	400.000	0.1251	06	1000.000	0.1304	07	2000.000	0.1301	08	3000.000	0.1452
09	4000.000	0.1262									

2-Nitropropane Average RF RSD = 15.6 Average RF = 0.1656

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	2.000	0.1375	03	4.000	0.1630	04	10.000	0.1279	05	40.000	0.1505
06	100.000	0.1713	07	200.000	0.1807	08	300.000	0.2001	09	400.000	0.1938

2-Propanol Average RF RSD = 7.5 Average RF = 0.09072

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.08120	02	20.000	0.08618	03	40.000	0.08736	04	100.000	0.08969
05	400.000	0.08566	06	1000.000	0.09501	07	2000.000	0.09464	08	3000.000	0.1043
09	4000.000	0.09237									

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting**

3,4- and 2,3-Dichlorotoluene Coelution Average RF RSD = 12.6 Average RF = 1.576

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.736	02	2.000	1.759	03	4.000	1.620	04	10.000	1.762
05	40.000	1.693	06	100.000	1.601	07	200.000	1.477	08	300.000	1.322
09	400.000	1.211									

3,4-Dichlorobenzotrifluoride Average RF RSD = 16.5 Average RF = 0.8969

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.224	02	1.000	1.008	03	2.000	0.9605	04	5.000	0.8960
05	20.000	0.8250	06	50.000	0.8004	07	100.000	0.7792	08	150.000	0.7939
09	200.000	0.7859									

3-Chloro-1-propene Average RF RSD = 9.8 Average RF = 0.2608

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2900	02	1.000	0.3120	03	2.000	0.2695	04	5.000	0.2387
05	20.000	0.2460	06	50.000	0.2604	07	100.000	0.2457	08	150.000	0.2416
09	200.000	0.2430									

3-Chlorobenzotrifluoride Average RF RSD = 7.8 Average RF = 0.6049

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.6996	03	2.000	0.6408	04	5.000	0.6248	05	20.000	0.5886
06	50.000	0.5684	07	100.000	0.5751	08	150.000	0.5785	09	200.000	0.5632

3-Chlorotoluene Average RF RSD = 9.2 Average RF = 2.291

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.460	02	1.000	2.548	03	2.000	2.464	04	5.000	2.427
05	20.000	2.374	06	50.000	2.223	07	100.000	2.149	08	150.000	1.995
09	200.000	1.983									

4-Bromofluorobenzene Average RF RSD = 5.6 Average RF = 0.4856

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.4647	05	20.000	0.4494	06	50.000	0.4950	07	100.000	0.5057
08	200.000	0.5131									

4-Chlorotoluene Average RF RSD = 13.2 Average RF = 2.615

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.733	02	1.000	3.078	03	2.000	2.691	04	5.000	2.757
05	20.000	2.864	06	50.000	2.776	07	100.000	2.457	08	150.000	2.203
09	200.000	1.975									

4-Isopropyltoluene Average RF RSD = 12.7 Average RF = 2.686

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.084	02	1.000	3.015	03	2.000	2.650	04	5.000	2.861
05	20.000	2.873	06	50.000	2.836	07	100.000	2.526	08	150.000	2.240
09	200.000	2.088									

4-Methyl-2-pentanone Average RF RSD = 6.3 Average RF = 0.7046

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7371	02	1.000	0.6644	03	2.000	0.6287	04	5.000	0.6769
05	20.000	0.7089	06	50.000	0.7099	07	100.000	0.7201	08	150.000	0.7818
09	200.000	0.7135									

Acetone Average RF RSD = 7.2 Average RF = 0.4277

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.4853	05	20.000	0.4385	06	50.000	0.4137	07	100.000	0.4096
08	150.000	0.4144	09	200.000	0.4044						

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Acetonitrile — Curve Fit: Average RF — Weighting: RSD = 13.7 — Average RF = 0.08955

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.08957	02	5.000	0.08192	03	10.000	0.1198	04	25.000	0.07686
05	100.000	0.08831	06	250.000	0.08804	07	500.000	0.08904	08	750.000	0.08203
09	1000.000	0.09041									

Acrolein — Curve Fit: Average RF — Weighting: RSD = 4.4 — Average RF = 0.1599

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1551	02	5.000	0.1731	03	10.000	0.1647	04	25.000	0.1568
05	100.000	0.1593	06	250.000	0.1651	07	500.000	0.1553	08	750.000	0.1603
09	1000.000	0.1492									

Acrylonitrile — Curve Fit: Average RF — Weighting: RSD = 8.7 — Average RF = 0.3354

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2708	02	5.000	0.3329	03	10.000	0.3181	04	25.000	0.3470
05	100.000	0.3594	06	250.000	0.3694	07	500.000	0.3457	08	750.000	0.3512
09	1000.000	0.3242									

Benzene — Curve Fit: Average RF — Weighting: RSD = 6.1 — Average RF = 1.339

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.475	02	1.000	1.333	03	2.000	1.374	04	5.000	1.306
05	20.000	1.384	06	50.000	1.405	07	100.000	1.318	08	150.000	1.242
09	200.000	1.213									

Bromobenzene — Curve Fit: Average RF — Weighting: RSD = 8.0 — Average RF = 0.8371

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.9002	03	2.000	0.8822	04	5.000	0.9043	05	20.000	0.8790
06	50.000	0.8533	07	100.000	0.7817	08	150.000	0.7390	09	200.000	0.7571

Bromochloromethane — Curve Fit: Average RF — Weighting: RSD = 2.9 — Average RF = 0.3268

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3202	02	1.000	0.3308	03	2.000	0.3404	04	5.000	0.3126
05	20.000	0.3343	06	50.000	0.3374	07	100.000	0.3249	08	150.000	0.3218
09	200.000	0.3189									

Bromodichloromethane — Curve Fit: Average RF — Weighting: RSD = 4.6 — Average RF = 0.4587

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4198	02	1.000	0.4501	03	2.000	0.4547	04	5.000	0.4365
05	20.000	0.4737	06	50.000	0.4915	07	100.000	0.4688	08	150.000	0.4679
09	200.000	0.4654									

Bromoform — Curve Fit: Average RF — Weighting: RSD = 17.7 — Average RF = 0.2925

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.2351	03	2.000	0.2327	04	5.000	0.2343	05	20.000	0.2891
06	50.000	0.3234	07	100.000	0.3276	08	150.000	0.3514	09	200.000	0.3461

Bromomethane — Curve Fit: Quadratic — Weighting: 1/X — COD = 0.9996 — $Y = -0.06602\ X^2 + 0.3052\ X + 8.599E\text{-}4$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3380	02	1.000	0.3635	03	2.000	0.3511	04	5.000	0.3182
05	20.000	0.2829	06	50.000	0.2350	07	100.000	0.1748			

Carbon Disulfide — Curve Fit: Average RF — Weighting: RSD = 8.4 — Average RF = 1.249

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.502	02	1.000	1.205	03	2.000	1.327	04	5.000	1.224
05	20.000	1.193	06	50.000	1.224	07	100.000	1.205	08	150.000	1.201
09	200.000	1.159									

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Carbon Tetrachloride Average RF RSD = 8.0 Average RF = 0.1347

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1301	02	1.000	0.1090	03	2.000	0.1360	04	5.000	0.1369
05	20.000	0.1400	06	50.000	0.1470	07	100.000	0.1413	08	150.000	0.1331
09	200.000	0.1393									

Chlorobenzene Average RF RSD = 7.7 Average RF = 1.039

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9794	02	1.000	1.151	03	2.000	1.112	04	5.000	1.071
05	20.000	1.084	06	50.000	1.082	07	100.000	1.004	08	150.000	0.9553
09	200.000	0.9122									

Chloroethane Average RF RSD = 7.4 Average RF = 0.3129

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3424	02	1.000	0.3193	03	2.000	0.3253	04	5.000	0.3128
05	20.000	0.3323	06	50.000	0.3271	07	100.000	0.2991	08	150.000	0.2693
09	200.000	0.2889									

Chloroform Average RF RSD = 5.5 Average RF = 0.8646

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7698	02	1.000	0.8253	03	2.000	0.8834	04	5.000	0.8992
05	20.000	0.9100	06	50.000	0.9240	07	100.000	0.8716	08	150.000	0.8522
09	200.000	0.8462									

Chloromethane Average RF RSD = 9.3 Average RF = 0.6035

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6992	02	1.000	0.6859	03	2.000	0.5747	04	5.000	0.5465
05	20.000	0.6040	06	50.000	0.6227	07	100.000	0.5821	08	150.000	0.5667
09	200.000	0.5497									

Cyclohexane Average RF RSD = 15.1 Average RF = 0.4989

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5053	02	1.000	0.6970	03	2.000	0.4782	04	5.000	0.4628
05	20.000	0.4741	06	50.000	0.4771	07	100.000	0.4667	08	150.000	0.4669
09	200.000	0.4623									

Cyclohexanone Average RF RSD = 12.5 Average RF = 0.1151

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.09903	02	20.000	0.1116	03	40.000	0.1201	04	100.000	0.1306
05	400.000	0.1289	06	1000.000	0.1281	07	2000.000	0.1212	08	3000.000	0.1065
09	4000.000	0.08976									

Dibromochloromethane Average RF RSD = 13.0 Average RF = 0.3832

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3123	02	1.000	0.3205	03	2.000	0.3335	04	5.000	0.3663
05	20.000	0.4124	06	50.000	0.4290	07	100.000	0.4264	08	150.000	0.4233
09	200.000	0.4249									

Dibromofluoromethane Average RF RSD = 1.7 Average RF = 0.3226

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3203	05	20.000	0.3158	06	50.000	0.3310	07	100.000	0.3240
08	200.000	0.3220									

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Dibromomethane Average RF RSD = 5.1 Average RF = 0.2371

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2424	02	1.000	0.2457	03	2.000	0.2208	04	5.000	0.2153
05	20.000	0.2497	06	50.000	0.2502	07	100.000	0.2365	08	150.000	0.2371
09	200.000	0.2358									

Dichlorodifluoromethane (CFC 12) Average RF RSD = 8.6 Average RF = 0.4428

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4337	02	1.000	0.4133	03	2.000	0.3818	04	5.000	0.4193
05	20.000	0.4815	06	50.000	0.5084	07	100.000	0.4603	08	150.000	0.4519
09	200.000	0.4353									

Dichlorofluoromethane (CFC 21) Average RF RSD = 4.1 Average RF = 0.8860

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9213	02	1.000	0.9392	03	2.000	0.8771	04	5.000	0.9018
05	20.000	0.9037	06	50.000	0.8928	07	100.000	0.8445	08	150.000	0.8700
09	200.000	0.8231									

Dichloromethane Average RF RSD = 10.0 Average RF = 0.5125

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6028	02	1.000	0.5391	03	2.000	0.5862	04	5.000	0.4806
05	20.000	0.4895	06	50.000	0.5012	07	100.000	0.4788	08	150.000	0.4707
09	200.000	0.4638									

Diethyl Ether Average RF RSD = 3.2 Average RF = 0.4916

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5025	02	1.000	0.4943	03	2.000	0.4858	04	5.000	0.4620
05	20.000	0.4890	06	50.000	0.5202	07	100.000	0.5003	08	150.000	0.4862
09	200.000	0.4835									

Diisopropyl Ether Average RF RSD = 3.9 Average RF = 2.200

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.157	02	1.000	2.341	03	2.000	2.238	04	5.000	2.252
05	20.000	2.266	06	50.000	2.231	07	100.000	2.105	08	150.000	2.145
09	200.000	2.070									

Ethyl Methacrylate Average RF RSD = 6.6 Average RF = 0.5591

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5362	02	1.000	0.5230	03	2.000	0.5201	04	5.000	0.5122
05	20.000	0.5702	06	50.000	0.6011	07	100.000	0.5815	08	150.000	0.6112
09	200.000	0.5762									

Ethyl tert-Butyl Ether Average RF RSD = 3.0 Average RF = 1.835

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.755	02	1.000	1.875	03	2.000	1.818	04	5.000	1.886
05	20.000	1.898	06	50.000	1.897	07	100.000	1.783	08	150.000	1.811
09	200.000	1.793									

Ethylbenzene Average RF RSD = 4.3 Average RF = 0.5528

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5256	02	1.000	0.5577	03	2.000	0.5850	04	5.000	0.5634
05	20.000	0.5721	06	50.000	0.5762	07	100.000	0.5476	08	150.000	0.5246
09	200.000	0.5234									

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte — **Curve Fit** — **Weighting**

Hexachlorobutadiene — Average RF — RSD = 11.1 — Average RF = 0.5282

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6686	02	1.000	0.4922	03	2.000	0.5003	04	5.000	0.5223
05	20.000	0.5243	06	50.000	0.5638	07	100.000	0.5179	08	150.000	0.4735
09	200.000	0.4914									

Iodomethane — Quadratic — 1/X — COD = 0.9995 — $Y = 0.009147 X^2 + 0.6255 X + -0.02062$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.2305	04	5.000	0.2943	05	20.000	0.5589	06	50.000	0.6470
07	100.000	0.6309	08	150.000	0.6356	09	200.000	0.6617			

Isopropylbenzene (Cumene) — Average RF — RSD = 9.2 — Average RF = 1.667

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.745	02	1.000	1.733	03	2.000	1.777	04	5.000	1.709
05	20.000	1.800	06	50.000	1.781	07	100.000	1.617	08	150.000	1.482
09	200.000	1.356									

Methacrylonitrile — Average RF — RSD = 7.9 — Average RF = 0.3144

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3762	02	1.000	0.3227	03	2.000	0.3024	04	5.000	0.2947
05	20.000	0.3102	06	50.000	0.3060	07	100.000	0.3018	08	150.000	0.3165
09	200.000	0.2992									

Methyl Acetate — Average RF — RSD = 6.3 — Average RF = 0.7730

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7603	02	1.000	0.6532	03	2.000	0.8121	04	5.000	0.7827
05	20.000	0.7839	06	50.000	0.8171	07	100.000	0.7920	08	150.000	0.7848
09	200.000	0.7712									

Methyl Methacrylate — Average RF — RSD = 5.3 — Average RF = 0.3242

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3248	02	1.000	0.2887	03	2.000	0.3190	04	5.000	0.3060
05	20.000	0.3316	06	50.000	0.3380	07	100.000	0.3317	08	150.000	0.3438
09	200.000	0.3338									

Methyl tert-Butyl Ether — Average RF — RSD = 5.1 — Average RF = 1.697

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.564	02	1.000	1.619	03	2.000	1.727	04	5.000	1.748
05	20.000	1.809	06	50.000	1.811	07	100.000	1.703	08	150.000	1.678
09	200.000	1.611									

Methylcyclohexane — Average RF — RSD = 8.3 — Average RF = 0.5532

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6433	02	1.000	0.6155	03	2.000	0.5561	04	5.000	0.5347
05	20.000	0.5427	06	50.000	0.5384	07	100.000	0.5128	08	150.000	0.5221
09	200.000	0.5134									

Naphthalene — Average RF — RSD = 14.9 — Average RF = 3.522

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.945	02	1.000	3.704	03	2.000	3.544	04	5.000	3.934
05	20.000	4.031	06	50.000	3.834	07	100.000	3.320	08	150.000	2.857
09	200.000	2.531									

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte — **Curve Fit** — **Weighting**

Propionitrile — Average RF — RSD = 6.3 — Average RF = 0.1444

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1340	02	5.000	0.1430	03	10.000	0.1290	04	25.000	0.1409
05	100.000	0.1462	06	250.000	0.1509	07	500.000	0.1472	08	750.000	0.1595
09	1000.000	0.1484									

Styrene — Average RF — RSD = 5.0 — Average RF = 1.104

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.081	02	1.000	1.121	03	2.000	1.066	04	5.000	1.092
05	20.000	1.177	06	50.000	1.179	07	100.000	1.133	08	150.000	1.076
09	200.000	1.008									

Tetrachloroethene (PCE) — Average RF — RSD = 9.7 — Average RF = 0.3223

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3374	02	1.000	0.3948	03	2.000	0.3111	04	5.000	0.3204
05	20.000	0.3227	06	50.000	0.3246	07	100.000	0.3058	08	150.000	0.2866
09	200.000	0.2971									

Tetrahydrofuran (THF) — Average RF — RSD = 14.7 — Average RF = 0.3707

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.4240	03	2.000	0.4743	04	5.000	0.3880	05	20.000	0.3247
06	50.000	0.3371	07	100.000	0.3325	08	150.000	0.3580	09	200.000	0.3268

Toluene — Average RF — RSD = 7.4 — Average RF = 1.394

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.430	02	1.000	1.507	03	2.000	1.445	04	5.000	1.369
05	20.000	1.475	06	50.000	1.476	07	100.000	1.375	08	150.000	1.283
09	200.000	1.189									

Toluene-d8 — Average RF — RSD = 6.5 — Average RF = 1.176

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.262	05	20.000	1.149	06	50.000	1.233	07	100.000	1.168
08	200.000	1.068									

Trichloroethene (TCE) — Average RF — RSD = 10.1 — Average RF = 0.3973

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4633	02	1.000	0.4461	03	2.000	0.4055	04	5.000	0.4061
05	20.000	0.3976	06	50.000	0.3930	07	100.000	0.3711	08	150.000	0.3426
09	200.000	0.3502									

Trichlorofluoromethane (CFC 11) — Average RF — RSD = 6.6 — Average RF = 0.6721

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6693	02	1.000	0.7493	03	2.000	0.6550	04	5.000	0.6644
05	20.000	0.7115	06	50.000	0.7135	07	100.000	0.6452	08	150.000	0.6213
09	200.000	0.6195									

Vinyl Acetate — Average RF — RSD = 17.5 — Average RF = 0.09690

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.07382	03	2.000	0.1247	04	5.000	0.08038	05	20.000	0.1062
06	50.000	0.1052	07	100.000	0.09594	08	150.000	0.1060	09	200.000	0.08292

Vinyl Chloride — Average RF — RSD = 9.5 — Average RF = 0.5223

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6352	02	1.000	0.4991	03	2.000	0.4696	04	5.000	0.5198
05	20.000	0.5365	06	50.000	0.5526	07	100.000	0.5089	08	150.000	0.4992
09	200.000	0.4800									

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting** Average RF

cis-1,2-Dichloroethene Average RF RSD = 12.1 Average RF = 0.5234

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6844	02	1.000	0.5302	03	2.000	0.4991	04	5.000	0.4862
05	20.000	0.5266	06	50.000	0.5252	07	100.000	0.4898	08	150.000	0.4811
09	200.000	0.4878									

cis-1,3-Dichloropropene Average RF RSD = 7.2 Average RF = 0.5394

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4627	02	1.000	0.5023	03	2.000	0.5488	04	5.000	0.5127
05	20.000	0.5723	06	50.000	0.5847	07	100.000	0.5631	08	150.000	0.5592
09	200.000	0.5486									

m,p-Xylenes Average RF RSD = 7.0 Average RF = 0.6504

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6791	02	2.000	0.6319	03	4.000	0.6838	04	10.000	0.6628
05	40.000	0.6907	06	100.000	0.6966	07	200.000	0.6469	08	300.000	0.5966
09	400.000	0.5651									

n-Butyl Acetate Average RF RSD = 7.7 Average RF = 1.087

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.009	03	2.000	0.9518	04	5.000	1.050	05	20.000	1.096
06	50.000	1.185	07	100.000	1.169	08	150.000	1.168	09	200.000	1.069

n-Butylbenzene Average RF RSD = 11.3 Average RF = 2.636

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.897	02	1.000	2.765	03	2.000	2.756	04	5.000	2.808
05	20.000	2.827	06	50.000	2.847	07	100.000	2.529	08	150.000	2.227
09	200.000	2.069									

n-Heptane Average RF RSD = 18.6 Average RF = 0.6365

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9172	02	1.000	0.7108	03	2.000	0.6361	04	5.000	0.5746
05	20.000	0.6156	06	50.000	0.6272	07	100.000	0.5715	08	150.000	0.5361
09	200.000	0.5397									

n-Propylbenzene Average RF RSD = 17.2 Average RF = 3.601

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	4.018	02	1.000	4.128	03	2.000	4.004	04	5.000	3.910
05	20.000	4.003	06	50.000	3.870	07	100.000	3.262	08	150.000	2.724
09	200.000	2.486									

o-Xylene Average RF RSD = 6.3 Average RF = 0.6773

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7250	02	1.000	0.7545	03	2.000	0.6704	04	5.000	0.6783
05	20.000	0.6832	06	50.000	0.6820	07	100.000	0.6554	08	150.000	0.6286
09	200.000	0.6187									

sec-Butylbenzene Average RF RSD = 13.8 Average RF = 3.162

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.362	02	1.000	3.429	03	2.000	3.465	04	5.000	3.445
05	20.000	3.478	06	50.000	3.421	07	100.000	2.951	08	150.000	2.551
09	200.000	2.354									

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

tert-Amyl Methyl Ether Average RF RSD = 3.2 Average RF = 1.094

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.046	02	1.000	1.115	03	2.000	1.141	04	5.000	1.069
05	20.000	1.133	06	50.000	1.121	07	100.000	1.067	08	150.000	1.089
09	200.000	1.061									

tert-Butylbenzene Average RF RSD = 9.7 Average RF = 2.171

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.318	02	1.000	2.388	03	2.000	2.207	04	5.000	2.265
05	20.000	2.315	06	50.000	2.307	07	100.000	2.066	08	150.000	1.862
09	200.000	1.810									

trans-1,2-Dichloroethene Average RF RSD = 6.3 Average RF = 0.4501

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4448	02	1.000	0.5170	03	2.000	0.4488	04	5.000	0.4397
05	20.000	0.4612	06	50.000	0.4570	07	100.000	0.4360	08	150.000	0.4214
09	200.000	0.4248									

trans-1,3-Dichloropropene Average RF RSD = 11.1 Average RF = 0.4982

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4024	02	1.000	0.4577	03	2.000	0.4577	04	5.000	0.4541
05	20.000	0.5384	06	50.000	0.5501	07	100.000	0.5448	08	150.000	0.5476
09	200.000	0.5307									

trans-1,4-Dichloro-2-butene Average RF RSD = 17.0 Average RF = 0.2069

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2378	02	1.000	0.1481	03	2.000	0.1922	04	5.000	0.1675
05	20.000	0.1875	06	50.000	0.2104	07	100.000	0.2317	08	150.000	0.2460
09	200.000	0.2407									

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

1,1,1,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-14.7	02	1.000	0.80	-20.4	03	2.000	1.88	-6.0
04	5.000	4.88	-2.4	05	20.000	21.65	8.2	06	50.000	56.08	12.2
07	100.000	110.06	10.1	08	150.000	159.61	6.4	09	200.000	213.26	6.6

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.2	02	1.000	0.95	-5.3	03	2.000	1.96	-2.1
04	5.000	4.88	-2.5	05	20.000	21.01	5.0	06	50.000	53.57	7.1
07	100.000	101.00	1.0	08	150.000	145.38	-3.1	09	200.000	197.17	-1.4

1,1,2,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.7	02	1.000	0.96	-4.2	03	2.000	1.97	-1.5
04	5.000	4.36	-12.8	05	20.000	20.21	1.1	06	50.000	52.74	5.5
07	100.000	103.32	3.3	08	150.000	156.73	4.5	09	200.000	201.07	0.5

1,1,2-Trichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.6	02	1.000	1.02	1.7	03	2.000	2.14	7.0
04	5.000	4.75	-5.1	05	20.000	20.76	3.8	06	50.000	52.91	5.8
07	100.000	100.99	1.0	08	150.000	154.94	3.3	09	200.000	200.11	0.1

1,1,2-Trichlorotrifluoroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.62	23.9	02	1.000	0.95	-4.7	03	2.000	2.07	3.7
04	5.000	4.77	-4.6	05	20.000	20.10	0.5	06	50.000	50.99	2.0
07	100.000	93.34	-6.7	08	150.000	138.19	-7.9	09	200.000	187.39	-6.3

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.8	02	1.000	1.06	5.8	03	2.000	2.13	6.5
04	5.000	4.91	-1.8	05	20.000	19.69	-1.6	06	50.000	50.96	1.9
07	100.000	95.52	-4.5	08	150.000	138.06	-8.0	09	200.000	185.75	-7.1

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.1	02	1.000	1.11	11.0	03	2.000	2.00	-0.2
04	5.000	4.98	-0.5	05	20.000	19.74	-1.3	06	50.000	50.45	0.9
07	100.000	95.33	-4.7	08	150.000	138.09	-7.9	09	200.000	187.11	-6.4

1,1-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.0	02	1.000	1.11	10.7	03	2.000	2.05	2.7
04	5.000	4.86	-2.9	05	20.000	20.36	1.8	06	50.000	51.75	3.5
07	100.000	98.14	-1.9	08	150.000	140.56	-6.3	09	200.000	190.49	-4.8

00139

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

1,2,3-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.5	02	1.000	1.12	12.1	03	2.000	2.08	4.0
04	5.000	5.34	6.7	05	20.000	20.86	4.3	06	50.000	51.86	3.7
07	100.000	94.88	-5.1	08	150.000	134.37	-10.4	09	200.000	176.55	-11.7

1,2,3-Trichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.11	11.2	03	2.000	1.86	-7.1	04	5.000	5.16	3.1
05	20.000	20.85	4.3	06	50.000	50.08	0.2	07	100.000	95.22	-4.8
08	150.000	145.06	-3.3	09	200.000	192.83	-3.6				

1,2,4-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	17.4	02	1.000	1.14	14.3	03	2.000	2.02	0.9
04	5.000	4.96	-0.8	05	20.000	19.95	-0.3	06	50.000	50.34	0.7
07	100.000	92.69	-7.3	08	150.000	132.77	-11.5	09	200.000	173.17	-13.4

1,2,4-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.3	02	1.000	1.18	17.7	03	2.000	2.11	5.6
04	5.000	5.22	4.3	05	20.000	21.39	7.0	06	50.000	52.79	5.6
07	100.000	93.23	-6.8	08	150.000	123.81	-17.5	09	200.000	155.59	-22.2

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.40	-19.1	02	1.000	1.02	2.1	03	2.000	1.81	-9.4
04	5.000	4.31	-13.7	05	20.000	19.45	-2.8	06	50.000	54.47	8.9
07	100.000	108.83	8.8	08	150.000	166.91	11.3	09	200.000	227.66	13.8

1,2-Dibromoethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.7	02	1.000	1.04	4.1	03	2.000	1.87	-6.6
04	5.000	4.99	-0.3	05	20.000	21.14	5.7	06	50.000	52.42	4.8
07	100.000	101.13	1.1	08	150.000	149.14	-0.6	09	200.000	196.66	-1.7

1,2-Dichloro-1,1,2-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.7	02	1.000	1.08	7.8	03	2.000	2.27	13.7
04	5.000	5.07	1.3	05	20.000	18.85	-5.7	06	50.000	51.26	2.5
07	100.000	95.12	-4.9	08	150.000	143.99	-4.0	09	200.000	189.91	-5.0

1,2-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.9	02	1.000	1.06	6.1	03	2.000	2.04	2.2
04	5.000	5.12	2.5	05	20.000	20.39	2.0	06	50.000	50.97	1.9
07	100.000	95.68	-4.3	08	150.000	133.42	-11.1	09	200.000	173.77	-13.1

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Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

1,2-Dichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.3	02	1.000	0.97	-2.8	03	2.000	2.02	1.0
04	5.000	4.85	-3.0	05	20.000	21.22	6.1	06	50.000	52.73	5.5
07	100.000	99.46	-0.5	08	150.000	143.69	-4.2	09	200.000	191.45	-4.3

1,2-Dichloroethane-d4

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.87	8.7	05	20.000	18.67	-6.6	06	50.000	51.14	2.3
07	100.000	100.24	0.2	08	200.000	190.83	-4.6				

1,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.5	02	1.000	1.05	5.5	03	2.000	1.96	-1.8
04	5.000	5.28	5.6	05	20.000	20.57	2.9	06	50.000	52.02	4.0
07	100.000	98.93	-1.1	08	150.000	143.06	-4.6	09	200.000	193.84	-3.1

1,3,5-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	17.1	02	1.000	1.14	13.6	03	2.000	2.01	0.6
04	5.000	5.11	2.1	05	20.000	19.61	-2.0	06	50.000	46.98	-6.0
07	100.000	94.02	-6.0	08	150.000	135.73	-9.5	09	200.000	180.34	-9.8

1,3,5-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.6	02	1.000	1.05	5.4	03	2.000	2.21	10.4
04	5.000	5.47	9.4	05	20.000	21.65	8.2	06	50.000	53.17	6.3
07	100.000	93.59	-6.4	08	150.000	123.90	-17.4	09	200.000	155.01	-22.5

1,3-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.1	02	1.000	1.07	7.2	03	2.000	2.20	10.1
04	5.000	5.16	3.2	05	20.000	20.92	4.6	06	50.000	50.66	1.3
07	100.000	95.47	-4.5	08	150.000	133.98	-10.7	09	200.000	175.39	-12.3

1,3-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-9.0	02	1.000	1.06	6.2	03	2.000	2.12	5.8
04	5.000	4.81	-3.9	05	20.000	21.56	7.8	06	50.000	51.51	3.0
07	100.000	99.42	-0.6	08	150.000	144.54	-3.6	09	200.000	188.56	-5.7

1,4-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	22.2	02	1.000	1.18	17.9	03	2.000	1.97	-1.4
04	5.000	5.16	3.2	05	20.000	19.81	-1.0	06	50.000	48.80	-2.4
07	100.000	91.00	-9.0	08	150.000	129.40	-13.7	09	200.000	168.39	-15.8

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

1,4-Dioxane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	35.97	-10.1	04	100.000	98.13	-1.9	05	400.000	381.69	-4.6
06	1000.000	971.82	-2.8	07	2000.000	2,013.87	0.7	08	3000.000	3,433.06	14.4
09	4000.000	4,168.25	4.2								

1-Butanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	50.000	37.60	-24.8	03	100.000	84.65	-15.4	04	250.000	231.46	-7.4
05	1000.000	986.24	-1.4	06	2500.000	2,704.96	8.2	07	5000.000	5,590.70	11.8
08	7500.000	9,086.49	21.2	09	10000.000	10,778.42	7.8				

1-Chloro-4-(trifluoromethyl)benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.62	23.5	02	1.000	1.04	3.5	03	2.000	1.96	-2.2
04	5.000	5.00	0.0	05	20.000	18.96	-5.2	06	50.000	47.10	-5.8
07	100.000	95.23	-4.8	08	150.000	145.72	-2.9	09	200.000	187.66	-6.2

2,2-Dichloro-1,1,1-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-11.0	02	1.000	1.06	5.7	03	2.000	2.08	3.8
04	5.000	4.76	-4.7	05	20.000	18.73	-6.3	06	50.000	53.49	7.0
07	100.000	101.41	1.4	08	150.000	154.90	3.3	09	200.000	201.81	0.9

2,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.6	02	1.000	1.06	6.0	03	2.000	2.04	1.8
04	5.000	5.04	0.8	05	20.000	20.41	2.1	06	50.000	52.55	5.1
07	100.000	96.87	-3.1	08	150.000	139.36	-7.1	09	200.000	185.73	-7.1

2,3,6-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.63	25.2	02	1.000	0.99	-1.3	03	2.000	1.97	-1.4
04	5.000	5.29	5.8	05	20.000	21.06	5.3	06	50.000	48.00	-4.0
07	100.000	91.67	-8.3	08	150.000	133.74	-10.8	09	200.000	179.19	-10.4

2,4,5-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.6	02	1.000	1.09	9.3	03	2.000	1.99	-0.7
04	5.000	4.96	-0.7	05	20.000	21.05	5.2	06	50.000	48.42	-3.2
07	100.000	95.08	-4.9	08	150.000	137.94	-8.0	09	200.000	184.57	-7.7

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.500	1.70	13.4	02	3.000	3.41	13.6	03	6.000	6.14	2.4
04	15.000	15.80	5.3	05	60.000	62.23	3.7	06	150.000	147.44	-1.7
07	300.000	283.40	-5.5	08	450.000	395.73	-12.1	09	600.000	485.09	-19.2

09142

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

2,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.70	39.8	02	1.000	1.00	0.0	03	2.000	2.01	0.6
04	5.000	5.19	3.7	05	20.000	19.26	-3.7	06	50.000	43.55	-12.9
07	100.000	90.17	-9.8	08	150.000	134.01	-10.7	09	200.000	185.71	-7.1

2,5-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.66	31.3	02	1.000	0.93	-7.2	03	2.000	2.01	0.6
04	5.000	5.20	4.1	05	20.000	19.67	-1.6	06	50.000	46.68	-6.6
07	100.000	93.97	-6.0	08	150.000	141.18	-5.9	09	200.000	182.59	-8.7

2-Butanone (MEK)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.96	-4.4	03	2.000	1.97	-1.7	04	5.000	4.97	-0.6
05	20.000	19.78	-1.1	06	50.000	50.01	0.0	07	100.000	100.99	1.0
08	150.000	158.82	5.9	09	200.000	201.82	0.9				

2-Chloro-1,3-butadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.2	02	1.000	0.95	-5.3	03	2.000	2.02	1.1
04	5.000	4.93	-1.4	05	20.000	20.47	2.3	06	50.000	52.14	4.3
07	100.000	100.28	0.3	08	150.000	151.76	1.2	09	200.000	197.44	-1.3

2-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.6	02	1.000	1.14	14.0	03	2.000	2.04	2.2
04	5.000	5.09	1.9	05	20.000	19.49	-2.5	06	50.000	45.81	-8.4
07	100.000	96.91	-3.1	08	150.000	151.02	0.7	09	200.000	193.63	-3.2

2-Chloroethyl Vinyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.4	02	1.000	0.96	-3.6	03	2.000	1.85	-7.3
04	5.000	4.89	-2.2	05	20.000	20.22	1.1	06	50.000	52.81	5.6
07	100.000	102.83	2.8	08	150.000	157.54	5.0	09	200.000	203.97	2.0

2-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.9	02	1.000	1.02	2.1	03	2.000	2.13	6.6
04	5.000	5.17	3.4	05	20.000	21.56	7.8	06	50.000	52.93	5.9
07	100.000	94.76	-5.2	08	150.000	127.42	-15.1	09	200.000	163.24	-18.4

2-Hexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.42	-16.0	02	1.000	0.91	-9.0	03	2.000	1.85	-7.7
04	5.000	4.99	-0.1	05	20.000	20.77	3.9	06	50.000	51.61	3.2
07	100.000	106.49	6.5	08	150.000	169.76	13.2	09	200.000	212.10	6.0

00143

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

2-Methyl-1-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	8.76	-12.4	02	20.000	17.68	-11.6	03	40.000	39.38	-1.5
04	100.000	90.56	-9.4	05	400.000	379.81	-5.0	06	1000.000	1,028.69	2.9
07	2000.000	2,133.71	6.7	08	3000.000	3,624.18	20.8	09	4000.000	4,387.47	9.7

2-Methyl-2-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	8.51	-14.9	02	20.000	18.85	-5.7	03	40.000	37.75	-5.6
04	100.000	102.05	2.0	05	400.000	399.35	-0.2	06	1000.000	1,040.28	4.0
07	2000.000	2,076.53	3.8	08	3000.000	3,475.43	15.8	09	4000.000	4,027.39	0.7

2-Nitropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	2.000	1.66	-16.9	03	4.000	3.94	-1.6	04	10.000	7.72	-22.8
05	40.000	36.35	-9.1	06	100.000	103.45	3.4	07	200.000	218.19	9.1
08	300.000	362.47	20.8	09	400.000	468.08	17.0				

2-Propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	8.95	-10.5	02	20.000	19.00	-5.0	03	40.000	38.52	-3.7
04	100.000	98.87	-1.1	05	400.000	377.69	-5.6	06	1000.000	1,047.35	4.7
07	2000.000	2,086.50	4.3	08	3000.000	3,450.48	15.0	09	4000.000	4,072.92	1.8

3,4- and 2,3-Dichlorotoluene Coelution

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.10	10.2	02	2.000	2.23	11.6	03	4.000	4.11	2.8
04	10.000	11.19	11.9	05	40.000	42.98	7.5	06	100.000	101.60	1.6
07	200.000	187.48	-6.3	08	300.000	251.74	-16.1	09	400.000	307.34	-23.2

3,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.68	36.4	02	1.000	1.12	12.3	03	2.000	2.14	7.1
04	5.000	4.99	-0.1	05	20.000	18.40	-8.0	06	50.000	44.62	-10.8
07	100.000	86.87	-13.1	08	150.000	132.77	-11.5	09	200.000	175.25	-12.4

3-Chloro-1-propene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.2	02	1.000	1.20	19.6	03	2.000	2.07	3.4
04	5.000	4.58	-8.5	05	20.000	18.87	-5.7	06	50.000	49.94	-0.1
07	100.000	94.20	-5.8	08	150.000	138.99	-7.3	09	200.000	186.35	-6.8

3-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.16	15.7	03	2.000	2.12	5.9	04	5.000	5.16	3.3
05	20.000	19.46	-2.7	06	50.000	46.98	-6.0	07	100.000	95.08	-4.9
08	150.000	143.46	-4.4	09	200.000	186.21	-6.9				

00144

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

3-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.3	02	1.000	1.11	11.2	03	2.000	2.15	7.5
04	5.000	5.30	5.9	05	20.000	20.72	3.6	06	50.000	48.50	-3.0
07	100.000	93.80	-6.2	08	150.000	130.63	-12.9	09	200.000	173.10	-13.4

4-Bromofluorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	9.57	-4.3	05	20.000	18.51	-7.5	06	50.000	50.97	1.9
07	100.000	104.15	4.1	08	200.000	211.35	5.7				

4-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.5	02	1.000	1.18	17.7	03	2.000	2.06	2.9
04	5.000	5.27	5.4	05	20.000	21.91	9.5	06	50.000	53.09	6.2
07	100.000	93.95	-6.1	08	150.000	126.36	-15.8	09	200.000	151.08	-24.5

4-Isopropyltoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.8	02	1.000	1.12	12.2	03	2.000	1.97	-1.4
04	5.000	5.33	6.5	05	20.000	21.40	7.0	06	50.000	52.80	5.6
07	100.000	94.05	-6.0	08	150.000	125.10	-16.6	09	200.000	155.49	-22.3

4-Methyl-2-pentanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.6	02	1.000	0.94	-5.7	03	2.000	1.78	-10.8
04	5.000	4.80	-3.9	05	20.000	20.12	0.6	06	50.000	50.38	0.8
07	100.000	102.20	2.2	08	150.000	166.43	11.0	09	200.000	202.53	1.3

Acetone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	5.000	5.67	13.5	05	20.000	20.51	2.5	06	50.000	48.37	-3.3
07	100.000	95.77	-4.2	08	150.000	145.37	-3.1	09	200.000	189.13	-5.4

Acetonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.50	0.0	02	5.000	4.57	-8.5	03	10.000	13.38	33.8
04	25.000	21.46	-14.2	05	100.000	98.61	-1.4	06	250.000	245.77	-1.7
07	500.000	497.16	-0.6	08	750.000	686.97	-8.4	09	1000.000	1,009.52	1.0

Acrolein

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.43	-3.0	02	5.000	5.41	8.2	03	10.000	10.30	3.0
04	25.000	24.51	-2.0	05	100.000	99.66	-0.3	06	250.000	258.22	3.3
07	500.000	485.75	-2.8	08	750.000	752.03	0.3	09	1000.000	933.02	-6.7

00145

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Acrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.02	-19.3	02	5.000	4.96	-0.7	03	10.000	9.48	-5.2
04	25.000	25.86	3.4	05	100.000	107.15	7.2	06	250.000	275.30	10.1
07	500.000	515.37	3.1	08	750.000	785.38	4.7	09	1000.000	966.68	-3.3

Benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.2	02	1.000	1.00	-0.4	03	2.000	2.05	2.6
04	5.000	4.88	-2.5	05	20.000	20.67	3.3	06	50.000	52.48	5.0
07	100.000	98.42	-1.6	08	150.000	139.18	-7.2	09	200.000	181.18	-9.4

Bromobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.08	7.5	03	2.000	2.11	5.4	04	5.000	5.40	8.0
05	20.000	21.00	5.0	06	50.000	50.97	1.9	07	100.000	93.39	-6.6
08	150.000	132.42	-11.7	09	200.000	180.87	-9.6				

Bromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.0	02	1.000	1.01	1.2	03	2.000	2.08	4.2
04	5.000	4.78	-4.3	05	20.000	20.46	2.3	06	50.000	51.62	3.2
07	100.000	99.40	-0.6	08	150.000	147.70	-1.5	09	200.000	195.15	-2.4

Bromodichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.5	02	1.000	0.98	-1.9	03	2.000	1.98	-0.9
04	5.000	4.76	-4.8	05	20.000	20.65	3.3	06	50.000	53.57	7.1
07	100.000	102.21	2.2	08	150.000	153.01	2.0	09	200.000	202.91	1.5

Bromoform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.80	-19.6	03	2.000	1.59	-20.4	04	5.000	4.01	-19.9
05	20.000	19.77	-1.1	06	50.000	55.28	10.6	07	100.000	112.00	12.0
08	150.000	180.23	20.2	09	200.000	236.70	18.3				

Bromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.3	02	1.000	1.05	5.5	03	2.000	2.18	9.0
04	5.000	5.19	3.7	05	20.000	20.15	0.8	06	50.000	48.56	-2.9
07	100.000	103.09	3.1								

Carbon Disulfide

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.60	20.3	02	1.000	0.97	-3.5	03	2.000	2.13	6.3
04	5.000	4.90	-2.0	05	20.000	19.11	-4.5	06	50.000	49.00	-2.0
07	100.000	96.50	-3.5	08	150.000	144.24	-3.8	09	200.000	185.58	-7.2

00146

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	.1

Analyte

Carbon Tetrachloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.5	02	1.000	0.81	-19.1	03	2.000	2.02	0.9
04	5.000	5.08	1.6	05	20.000	20.78	3.9	06	50.000	54.54	9.1
07	100.000	104.90	4.9	08	150.000	148.20	-1.2	09	200.000	206.72	3.4

Chlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.7	02	1.000	1.11	10.8	03	2.000	2.14	7.0
04	5.000	5.15	3.0	05	20.000	20.87	4.4	06	50.000	52.08	4.2
07	100.000	96.63	-3.4	08	150.000	137.93	-8.0	09	200.000	175.61	-12.2

Chloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.4	02	1.000	1.02	2.0	03	2.000	2.08	4.0
04	5.000	5.00	0.0	05	20.000	21.24	6.2	06	50.000	52.26	4.5
07	100.000	95.56	-4.4	08	150.000	129.08	-13.9	09	200.000	184.66	-7.7

Chloroform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-11.0	02	1.000	0.95	-4.6	03	2.000	2.04	2.2
04	5.000	5.20	4.0	05	20.000	21.05	5.2	06	50.000	53.44	6.9
07	100.000	100.81	0.8	08	150.000	147.84	-1.4	09	200.000	195.74	-2.1

Chloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	15.9	02	1.000	1.14	13.7	03	2.000	1.90	-4.8
04	5.000	4.53	-9.5	05	20.000	20.02	0.1	06	50.000	51.59	3.2
07	100.000	96.45	-3.5	08	150.000	140.86	-6.1	09	200.000	182.17	-8.9

Cyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.3	02	1.000	1.40	39.7	03	2.000	1.92	-4.1
04	5.000	4.64	-7.2	05	20.000	19.01	-5.0	06	50.000	47.82	-4.4
07	100.000	93.54	-6.5	08	150.000	140.36	-6.4	09	200.000	185.32	-7.3

Cyclohexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	8.60	-14.0	02	20.000	19.40	-3.0	03	40.000	41.75	4.4
04	100.000	113.44	13.4	05	400.000	447.91	12.0	06	1000.000	1,112.97	11.3
07	2000.000	2,106.59	5.3	08	3000.000	2,776.04	-7.5	09	4000.000	3,119.79	-22.0

Dibromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-18.5	02	1.000	0.84	-16.4	03	2.000	1.74	-13.0
04	5.000	4.78	-4.4	05	20.000	21.52	7.6	06	50.000	55.98	12.0
07	100.000	111.28	11.3	08	150.000	165.71	10.5	09	200.000	221.79	10.9

00147

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Dibromofluoromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	9.93	-0.7	05	20.000	19.58	-2.1	06	50.000	51.30	2.6
07	100.000	100.41	0.4	08	200.000	199.60	-0.2				

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.3	02	1.000	1.04	3.6	03	2.000	1.86	-6.9
04	5.000	4.54	-9.2	05	20.000	21.07	5.3	06	50.000	52.77	5.5
07	100.000	99.76	-0.2	08	150.000	150.01	0.0	09	200.000	198.95	-0.5

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.1	02	1.000	0.93	-6.7	03	2.000	1.72	-13.8
04	5.000	4.73	-5.3	05	20.000	21.75	8.7	06	50.000	57.40	14.8
07	100.000	103.94	3.9	08	150.000	153.06	2.0	09	200.000	196.60	-1.7

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.0	02	1.000	1.06	6.0	03	2.000	1.98	-1.0
04	5.000	5.09	1.8	05	20.000	20.40	2.0	06	50.000	50.38	0.8
07	100.000	95.33	-4.7	08	150.000	147.30	-1.8	09	200.000	185.81	-7.1

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	17.6	02	1.000	1.05	5.2	03	2.000	2.29	14.4
04	5.000	4.69	-6.2	05	20.000	19.10	-4.5	06	50.000	48.90	-2.2
07	100.000	93.43	-6.6	08	150.000	137.74	-8.2	09	200.000	180.99	-9.5

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.2	02	1.000	1.01	0.6	03	2.000	1.98	-1.2
04	5.000	4.70	-6.0	05	20.000	19.90	-0.5	06	50.000	52.92	5.8
07	100.000	101.79	1.8	08	150.000	148.37	-1.1	09	200.000	196.74	-1.6

Diisopropyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.0	02	1.000	1.06	6.4	03	2.000	2.03	1.7
04	5.000	5.12	2.3	05	20.000	20.60	3.0	06	50.000	50.69	1.4
07	100.000	95.64	-4.4	08	150.000	146.25	-2.5	09	200.000	188.14	-5.9

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.1	02	1.000	0.94	-6.5	03	2.000	1.86	-7.0
04	5.000	4.58	-8.4	05	20.000	20.40	2.0	06	50.000	53.76	7.5
07	100.000	104.01	4.0	08	150.000	163.99	9.3	09	200.000	206.15	3.1

00148

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Ethyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.3	02	1.000	1.02	2.2	03	2.000	1.98	-1.0
04	5.000	5.14	2.8	05	20.000	20.68	3.4	06	50.000	51.69	3.4
07	100.000	97.16	-2.8	08	150.000	148.07	-1.3	09	200.000	195.43	-2.3

Ethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.9	02	1.000	1.01	0.9	03	2.000	2.12	5.8
04	5.000	5.10	1.9	05	20.000	20.70	3.5	06	50.000	52.11	4.2
07	100.000	99.06	-0.9	08	150.000	142.34	-5.1	09	200.000	189.35	-5.3

Hexachlorobutadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.63	26.6	02	1.000	0.93	-6.8	03	2.000	1.89	-5.3
04	5.000	4.94	-1.1	05	20.000	19.85	-0.8	06	50.000	53.37	6.7
07	100.000	98.03	-2.0	08	150.000	134.44	-10.4	09	200.000	186.05	-7.0

Iodomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.38	19.2	04	5.000	4.00	-20.1	05	20.000	19.41	-3.0
06	50.000	52.56	5.1	07	100.000	99.62	-0.4	08	150.000	147.68	-1.5
09	200.000	201.36	0.7								

Isopropylbenzene (Cumene)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.7	02	1.000	1.04	4.0	03	2.000	2.13	6.7
04	5.000	5.13	2.5	05	20.000	21.60	8.0	06	50.000	53.42	6.8
07	100.000	97.01	-3.0	08	150.000	133.40	-11.1	09	200.000	162.67	-18.7

Methacrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.60	19.7	02	1.000	1.03	2.6	03	2.000	1.92	-3.8
04	5.000	4.69	-6.3	05	20.000	19.73	-1.4	06	50.000	48.66	-2.7
07	100.000	96.00	-4.0	08	150.000	151.02	0.7	09	200.000	190.30	-4.9

Methyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.7	02	1.000	0.84	-15.5	03	2.000	2.10	5.1
04	5.000	5.06	1.3	05	20.000	20.28	1.4	06	50.000	52.85	5.7
07	100.000	102.46	2.5	08	150.000	152.28	1.5	09	200.000	199.52	-0.2

Methyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.2	02	1.000	0.89	-10.9	03	2.000	1.97	-1.6
04	5.000	4.72	-5.6	05	20.000	20.46	2.3	06	50.000	52.14	4.3
07	100.000	102.32	2.3	08	150.000	159.08	6.1	09	200.000	205.92	3.0

00149

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Methyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.8	02	1.000	0.95	-4.6	03	2.000	2.04	1.8
04	5.000	5.15	3.0	05	20.000	21.32	6.6	06	50.000	53.39	6.8
07	100.000	100.36	0.4	08	150.000	148.36	-1.1	09	200.000	189.88	-5.1

Methylcyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	16.3	02	1.000	1.11	11.3	03	2.000	2.01	0.5
04	5.000	4.83	-3.4	05	20.000	19.62	-1.9	06	50.000	48.66	-2.7
07	100.000	92.69	-7.3	08	150.000	141.55	-5.6	09	200.000	185.62	-7.2

Naphthalene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.0	02	1.000	1.05	5.2	03	2.000	2.01	0.6
04	5.000	5.58	11.7	05	20.000	22.89	14.5	06	50.000	54.43	8.9
07	100.000	94.26	-5.7	08	150.000	121.68	-18.9	09	200.000	143.70	-28.2

Propionitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.32	-7.1	02	5.000	4.95	-0.9	03	10.000	8.94	-10.6
04	25.000	24.39	-2.4	05	100.000	101.27	1.3	06	250.000	261.32	4.5
07	500.000	509.96	2.0	08	750.000	828.70	10.5	09	1000.000	1,028.21	2.8

Styrene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.0	02	1.000	1.02	1.5	03	2.000	1.93	-3.4
04	5.000	4.95	-1.0	05	20.000	21.33	6.6	06	50.000	53.40	6.8
07	100.000	102.62	2.6	08	150.000	146.30	-2.5	09	200.000	182.72	-8.6

Tetrachloroethene (PCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.7	02	1.000	1.22	22.5	03	2.000	1.93	-3.5
04	5.000	4.97	-0.6	05	20.000	20.03	0.1	06	50.000	50.36	0.7
07	100.000	94.88	-5.1	08	150.000	133.38	-11.1	09	200.000	184.40	-7.8

Tetrahydrofuran (THF)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.14	14.4	03	2.000	2.56	28.0	04	5.000	5.23	4.7
05	20.000	17.52	-12.4	06	50.000	45.47	-9.1	07	100.000	89.69	-10.3
08	150.000	144.86	-3.4	09	200.000	176.33	-11.8				

Toluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.6	02	1.000	1.08	8.1	03	2.000	2.07	3.7
04	5.000	4.91	-1.8	05	20.000	21.15	5.8	06	50.000	52.92	5.8
07	100.000	98.63	-1.4	08	150.000	138.01	-8.0	09	200.000	170.54	-14.7

00150

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Toluene-d8

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.74	7.4	05	20.000	19.55	-2.3	06	50.000	52.42	4.8
07	100.000	99.29	-0.7	08	200.000	181.57	-9.2				

Trichloroethene (TCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	16.6	02	1.000	1.12	12.3	03	2.000	2.04	2.1
04	5.000	5.11	2.2	05	20.000	20.01	0.1	06	50.000	49.46	-1.1
07	100.000	93.41	-6.6	08	150.000	129.36	-13.8	09	200.000	176.30	-11.9

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.4	02	1.000	1.11	11.5	03	2.000	1.95	-2.5
04	5.000	4.94	-1.1	05	20.000	21.17	5.9	06	50.000	53.08	6.2
07	100.000	96.00	-4.0	08	150.000	138.66	-7.6	09	200.000	184.35	-7.8

Vinyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.76	-23.8	03	2.000	2.57	28.6	04	5.000	4.15	-17.0
05	20.000	21.92	9.6	06	50.000	54.30	8.6	07	100.000	99.01	-1.0
08	150.000	164.10	9.4	09	200.000	171.16	-14.4				

Vinyl Chloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	21.6	02	1.000	0.96	-4.4	03	2.000	1.80	-10.1
04	5.000	4.98	-0.5	05	20.000	20.54	2.7	06	50.000	52.90	5.8
07	100.000	97.43	-2.6	08	150.000	143.35	-4.4	09	200.000	183.80	-8.1

cis-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.65	30.8	02	1.000	1.01	1.3	03	2.000	1.91	-4.6
04	5.000	4.64	-7.1	05	20.000	20.12	0.6	06	50.000	50.17	0.3
07	100.000	93.59	-6.4	08	150.000	137.89	-8.1	09	200.000	186.41	-6.8

cis-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-14.2	02	1.000	0.93	-6.9	03	2.000	2.03	1.7
04	5.000	4.75	-5.0	05	20.000	21.22	6.1	06	50.000	54.20	8.4
07	100.000	104.40	4.4	08	150.000	155.52	3.7	09	200.000	203.41	1.7

m,p-Xylenes

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.04	4.4	02	2.000	1.94	-2.8	03	4.000	4.21	5.1
04	10.000	10.19	1.9	05	40.000	42.48	6.2	06	100.000	107.10	7.1
07	200.000	198.92	-0.5	08	300.000	275.20	-8.3	09	400.000	347.56	-13.1

00151

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

n-Butyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.93	-7.2	03	2.000	1.75	-12.5	04	5.000	4.83	-3.5
05	20.000	20.17	0.8	06	50.000	54.51	9.0	07	100.000	107.54	7.5
08	150.000	161.07	7.4	09	200.000	196.68	-1.7				

n-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.9	02	1.000	1.05	4.9	03	2.000	2.09	4.5
04	5.000	5.33	6.5	05	20.000	21.45	7.2	06	50.000	54.01	8.0
07	100.000	95.95	-4.1	08	150.000	126.69	-15.5	09	200.000	156.97	-21.5

n-Heptane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.72	44.1	02	1.000	1.12	11.7	03	2.000	2.00	-0.1
04	5.000	4.51	-9.7	05	20.000	19.34	-3.3	06	50.000	49.27	-1.5
07	100.000	89.79	-10.2	08	150.000	126.33	-15.8	09	200.000	169.57	-15.2

n-Propylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.6	02	1.000	1.15	14.6	03	2.000	2.22	11.2
04	5.000	5.43	8.6	05	20.000	22.24	11.2	06	50.000	53.74	7.5
07	100.000	90.61	-9.4	08	150.000	113.50	-24.3	09	200.000	138.06	-31.0

o-Xylene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.0	02	1.000	1.11	11.4	03	2.000	1.98	-1.0
04	5.000	5.01	0.1	05	20.000	20.17	0.9	06	50.000	50.35	0.7
07	100.000	96.76	-3.2	08	150.000	139.20	-7.2	09	200.000	182.68	-8.7

sec-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.3	02	1.000	1.08	8.4	03	2.000	2.19	9.6
04	5.000	5.45	8.9	05	20.000	22.00	10.0	06	50.000	54.10	8.2
07	100.000	93.32	-6.7	08	150.000	121.02	-19.3	09	200.000	148.89	-25.6

tert-Amyl Methyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.4	02	1.000	1.02	2.0	03	2.000	2.09	4.3
04	5.000	4.89	-2.3	05	20.000	20.72	3.6	06	50.000	51.27	2.5
07	100.000	97.56	-2.4	08	150.000	149.38	-0.4	09	200.000	194.07	-3.0

tert-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.8	02	1.000	1.10	10.0	03	2.000	2.03	1.6
04	5.000	5.22	4.3	05	20.000	21.33	6.6	06	50.000	53.14	6.3
07	100.000	95.17	-4.8	08	150.000	128.68	-14.2	09	200.000	166.75	-16.6

00152

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

trans-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.2	02	1.000	1.15	14.9	03	2.000	1.99	-0.3
04	5.000	4.88	-2.3	05	20.000	20.49	2.5	06	50.000	50.77	1.5
07	100.000	96.87	-3.1	08	150.000	140.45	-6.4	09	200.000	188.75	-5.6

trans-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.40	-19.2	02	1.000	0.92	-8.1	03	2.000	1.84	-8.1
04	5.000	4.56	-8.8	05	20.000	21.62	8.1	06	50.000	55.22	10.4
07	100.000	109.35	9.4	08	150.000	164.89	9.9	09	200.000	213.06	6.5

trans-1,4-Dichloro-2-butene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	15.0	02	1.000	0.72	-28.4	03	2.000	1.86	-7.1
04	5.000	4.05	-19.0	05	20.000	18.12	-9.4	06	50.000	50.84	1.7
07	100.000	111.99	12.0	08	150.000	178.37	18.9	09	200.000	232.71	16.4

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:55:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FJ 9/11/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	753822	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	1083955	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	928832	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	489365	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	74005	10.48	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 20.96%#				
46) surr1,1,2-dichloroetha...	6.031	65	105194	10.96	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 21.92%#				
64) SURR3,Toluene-d8	8.494	98	271673	10.78	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.56%#				
69) SURR2,BFB	11.018	95	103470	9.73	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 19.46%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	3269	0.51	ug/L		85
3) Chloromethane	1.294	50	5271	0.62	ug/L		94
4) Vinyl Chloride	1.379	62	4788	0.64	ug/L		98
5) Bromomethane	1.623	94	2548	0.61	ug/L		83
6) Chloroethane	1.709	64	2581	0.61	ug/L		73
7) Freon 21	1.861	67	6945	0.57	ug/L		77
8) Trichlorofluoromethane	1.910	101	5045	0.54	ug/L		79
9) Diethyl Ether	2.166	59	3788	0.51	ug/L	#	73
10) Freon 123a	2.178	67	4182	0.52	ug/L	#	69
11) Freon 123	2.227	83	4059	0.46	ug/L		87
12) Acrolein	2.270	56	5846	2.39	ug/L		87
13) 1,1-Diclethene	2.361	96	3365	0.55	ug/L	#	73
14) Freon 113	2.373	101	4264	0.65	ug/L		87
15) Acetone	2.416	43	7663	1.22	ug/L		82
16) 2-Propanol	2.574	45	12242	8.63	ug/L		79
17) Iodomethane	2.513	142	2210m	0.33	ug/L		
18) Carbon Disulfide	2.568	76	11320	0.64	ug/L		93
19) Acetonitrile	2.708	40	3376m	2.93	ug/L		
20) Allyl Chloride	2.721	76	2186	0.61	ug/L	#	43
21) Methyl Acetate	2.763	43	5731	0.49	ug/L		87
22) Methylene Chloride	2.849	84	4544m	0.61	ug/L		
23) TBA	3.001	59	16076	8.20	ug/L		99
24) Acrylonitrile	3.141	53	10205	1.94	ug/L		84
25) Methyl-t-Butyl Ether	3.184	73	11788	0.46	ug/L		88
26) trans-1,2-Dichloroethene	3.178	96	3353m	0.51	ug/L		
27) 1,1-Diclethane	3.708	63	7865	0.59	ug/L		93
29) DIPE	3.861	45	16257	0.51	ug/L		90
30) 2-Chloro-1,3-Butadiene	3.855	53	7824m	0.54	ug/L		
31) ETBE	4.434	59	13233m	0.49	ug/L		
32) 2,2-Dichloropropane	4.604	77	5445m	0.53	ug/L		
33) cis-1,2-Dichloroethene	4.617	96	5159m	0.69	ug/L		
35) Propionitrile	4.775	54	5052m	2.36	ug/L		
36) Bromochloromethane	5.043	130	2414m	0.50	ug/L		
37) Methacrylonitrile	5.056	67	2836m	0.60	ug/L		

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:55:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) Tetrahydrofuran	5.171	42	4219	0.81 ug/L		66
39) Chloroform	5.251	83	5803	0.45 ug/L		78
40) 1,1,1-Trichloroethane	5.513	97	5769m	0.53 ug/L		
42) Cyclohexane	5.592	41	5477m	0.59 ug/L		
44) Carbontetrachloride	5.793	121	1410	0.53 ug/L	#	23
45) 1,1-Dichloropropene	5.799	75	4734	0.51 ug/L		80
47) Benzene	6.110	78	15986	0.59 ug/L		78
48) 1,2-Dichloroethane	6.153	62	6702	0.54 ug/L		88
49) Iso-Butyl Alcohol	6.141	43	8662	8.84 ug/L		93
50) TAME	6.342	73	11337	0.50 ug/L		99
51) n-Heptane	6.592	43	9942	0.81 ug/L		90
52) 1-Butanol	7.073	56	8745m	16.58 ug/L		
53) Trichloroethene	7.031	130	5022	0.60 ug/L		91
54) Methylcyclohexane	7.256	55	6973	0.66 ug/L		91
55) 1,2-Diclpropane	7.317	63	3911m	0.48 ug/L		
56) Dibromomethane	7.445	93	2628	0.50 ug/L	#	69
57) 1,4-Dioxane	7.519	88	1194	6.31 ug/L		88
58) Methyl Methacrylate	7.531	69	3521	0.50 ug/L	#	81
59) Bromodichloromethane	7.671	83	4550	0.45 ug/L		92
60) 2-Nitropropane	7.945	41	2651m	0.78 ug/L		
61) 2-Chloroethylvinyl Ether	8.073	63	3040	0.49 ug/L		86
62) cis-1,3-Dichloropropene	8.195	75	5016	0.44 ug/L		95
63) 4-Methyl-2-pentanone	8.409	43	7990	0.54 ug/L		98
65) Toluene	8.567	91	15504	0.54 ug/L		83
66) trans-1,3-Dichloropropene	8.829	75	4362	0.39 ug/L		88
67) Ethyl Methacrylate	8.963	69	5812	0.48 ug/L		100
68) 1,1,2-Trichloroethane	9.018	97	2956	0.41 ug/L		81
71) Tetrachloroethene	9.146	164	3134	0.55 ug/L	#	79
72) 2-Hexanone	9.299	43	4721	0.42 ug/L		89
73) 1,3-Dichloropropane	9.177	76	5593	0.46 ug/L		82
74) Dibromochloromethane	9.396	129	2901	0.40 ug/L	#	61
75) N-Butyl Acetate	9.451	43	7589	0.40 ug/L	#	62
76) 1,2-Dibromoethane	9.500	107	3535	0.46 ug/L	#	76
77) 3-Chlorobenzotrifluoride	10.000	180	7235	0.65 ug/L	#	86
78) Chlorobenzene	9.988	112	9097	0.49 ug/L		97
79) 4-Chlorobenzotrifluoride	10.055	180	6160	0.63 ug/L		88
80) 1,1,1,2-Tetrachloroethane	10.073	131	2837	0.42 ug/L		89
81) Ethylbenzene	10.097	106	4882	0.50 ug/L	#	79
82) (m+p)Xylene	10.213	106	12616	1.07 ug/L	#	61
83) o-Xylene	10.567	106	6734	0.57 ug/L	#	84
84) Styrene	10.573	104	10041	0.50 ug/L		80
85) Bromoform	10.731	173	1969	0.36 ug/L	#	20
86) 2-Chlorobenzotrifluoride	10.811	180	5487	0.51 ug/L		84
87) Isopropylbenzene	10.896	105	16207	0.55 ug/L		94
88) Cyclohexanone	10.957	55	18397	8.52 ug/L		81
89) trans-1,4-Dichloro-2-B...	11.207	53	2209m	0.61 ug/L		
91) 1,1,2,2-Tetrachloroethane	11.146	83	2505	0.30 ug/L	#	67
92) Bromobenzene	11.146	156	5735	0.69 ug/L	#	66
93) 1,2,3-Trichloropropane	11.182	110	2283	0.70 ug/L	#	36
94) n-Propylbenzene	11.249	91	19662	0.59 ug/L		98
95) 2-Chlorotoluene	11.310	91	12183	0.57 ug/L		95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:55:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

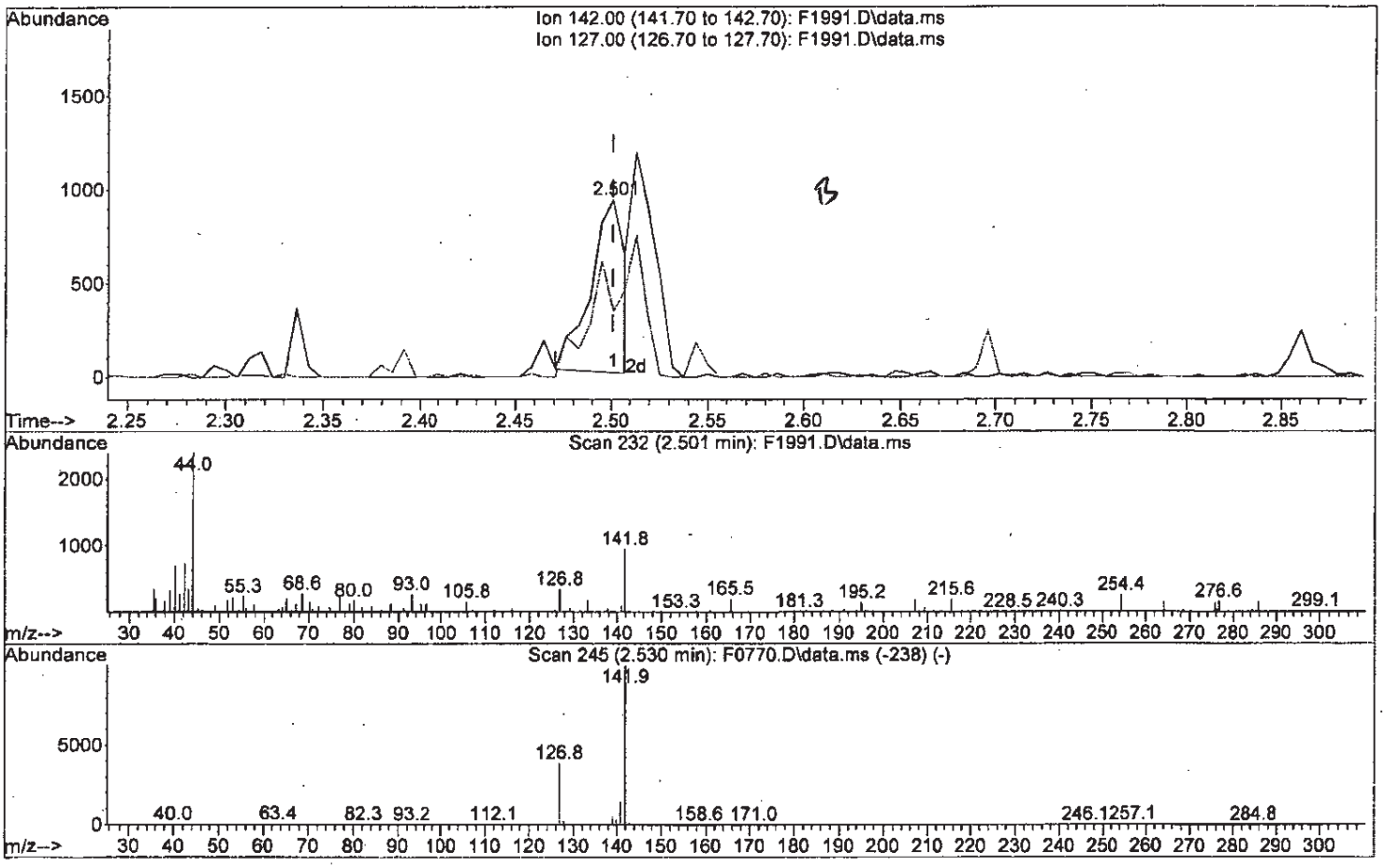
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
96)	3-Chlorotoluene	11.365	91	12036	0.55	ug/L		95
97)	4-Chlorotoluene	11.402	91	13376	0.54	ug/L		95
98)	1,3,5-Trimethylbenzene	11.402	105	13319	0.58	ug/L		93
99)	tert-Butylbenzene	11.676	119	11343	0.55	ug/L		98
100)	1,2,4-Trimethylbenzene	11.713	105	13550	0.57	ug/L		99
101)	3,4-Dichlorobenzotrifl...	11.774	214	5988	0.69	ug/L		93
102)	sec-Butylbenzene	11.853	105	16454	0.56	ug/L		85
103)	p-Isopropyltoluene	11.975	119	15091	0.62	ug/L		94
104)	1,3-Dclbenz	11.926	146	7805	0.52	ug/L		79
105)	1,4-Dclbenz	12.005	146	10113	0.63	ug/L		94
106)	2,4-Dichlorobenzotrifl...	12.060	214	5702	0.73	ug/L		96
107)	2,5-Dichlorobenzotrifl...	12.103	214	5772m	0.67	ug/L		
108)	n-Butylbenzene	12.304	91	14179	0.57	ug/L		98
109)	1,2-Dclbenz	12.310	146	8868	0.58	ug/L		96
110)	1,2-Dibromo-3-chloropr...	12.932	157	1006	0.41	ug/L	#	83
111)	Trielution Dichlorotol...	13.048	125	23768	1.75	ug/L		94
112)	1,3,5-Trichlorobenzene	13.097	180	7406	0.61	ug/L		89
113)	Coelution Dichlorotoluene	13.377	125	16988	1.14	ug/L		89
114)	1,2,4-Tcbenzene	13.584	180	7310	0.61	ug/L		97
115)	Hexachlorobt	13.712	225	3272	0.66	ug/L	#	68
116)	Naphthalen	13.773	128	19305	0.56	ug/L		96
117)	1,2,3-Tclbenzene	13.962	180	5949	0.49	ug/L	#	81
118)	2,4,5-Trichlorotoluene	14.548	159	5286	0.55	ug/L		94
119)	2,3,6-Trichlorotoluene	14.633	159	5415m	0.64	ug/L		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(17) Iodomethane

2.501min (+0.000) 0.17 ug/L

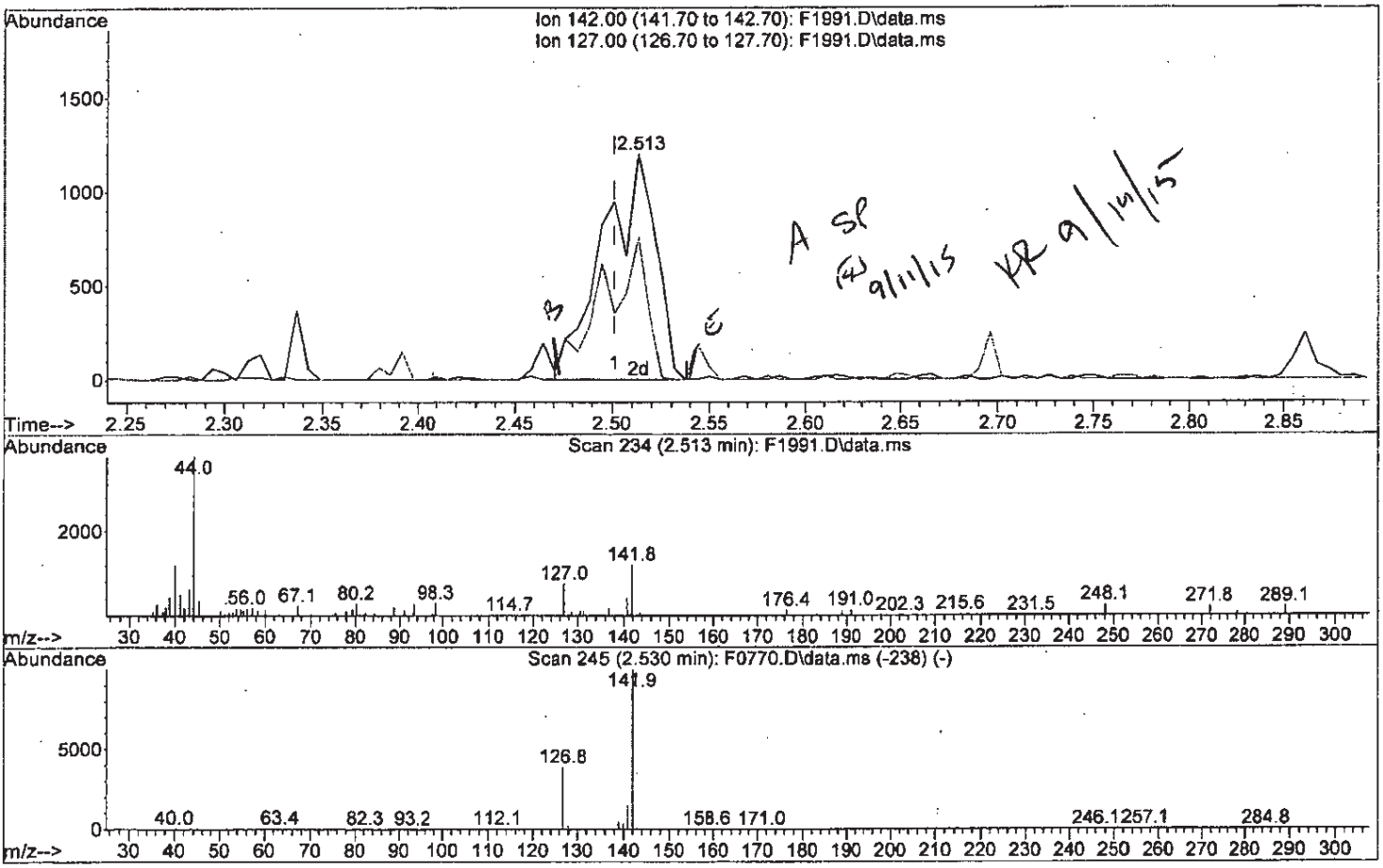
response 1154

Ion	Exp%	Act%
142.00	100	100
127.00	38.60	36.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(17) Iodomethane

2.513min (+0.012) 0.33 ug/L m

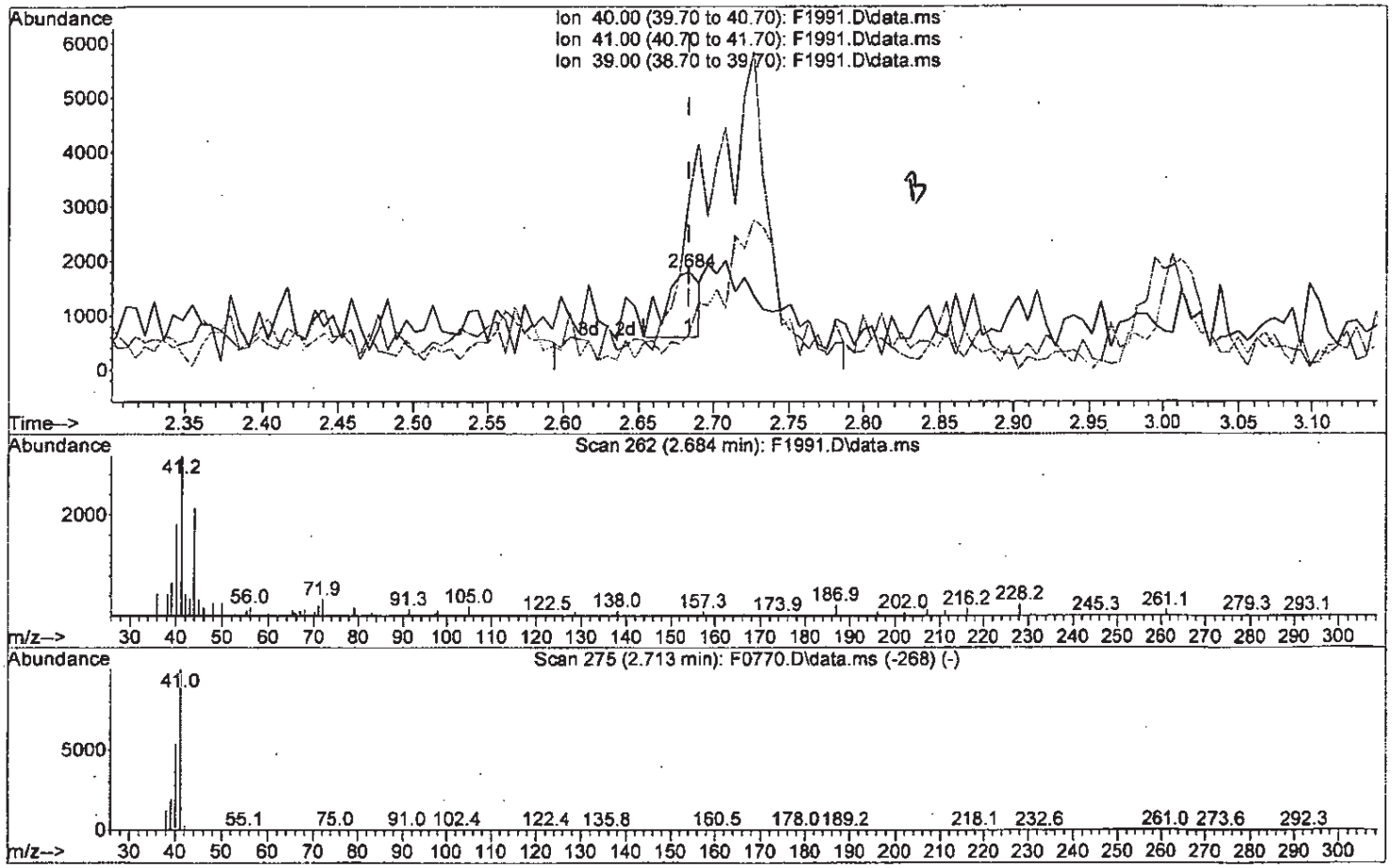
response 2210

Ion	Exp%	Act%
142.00	100	100
127.00	38.60	62.97#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(19) Acetonitrile

2.684min (+0.000) 1.64 ug/L

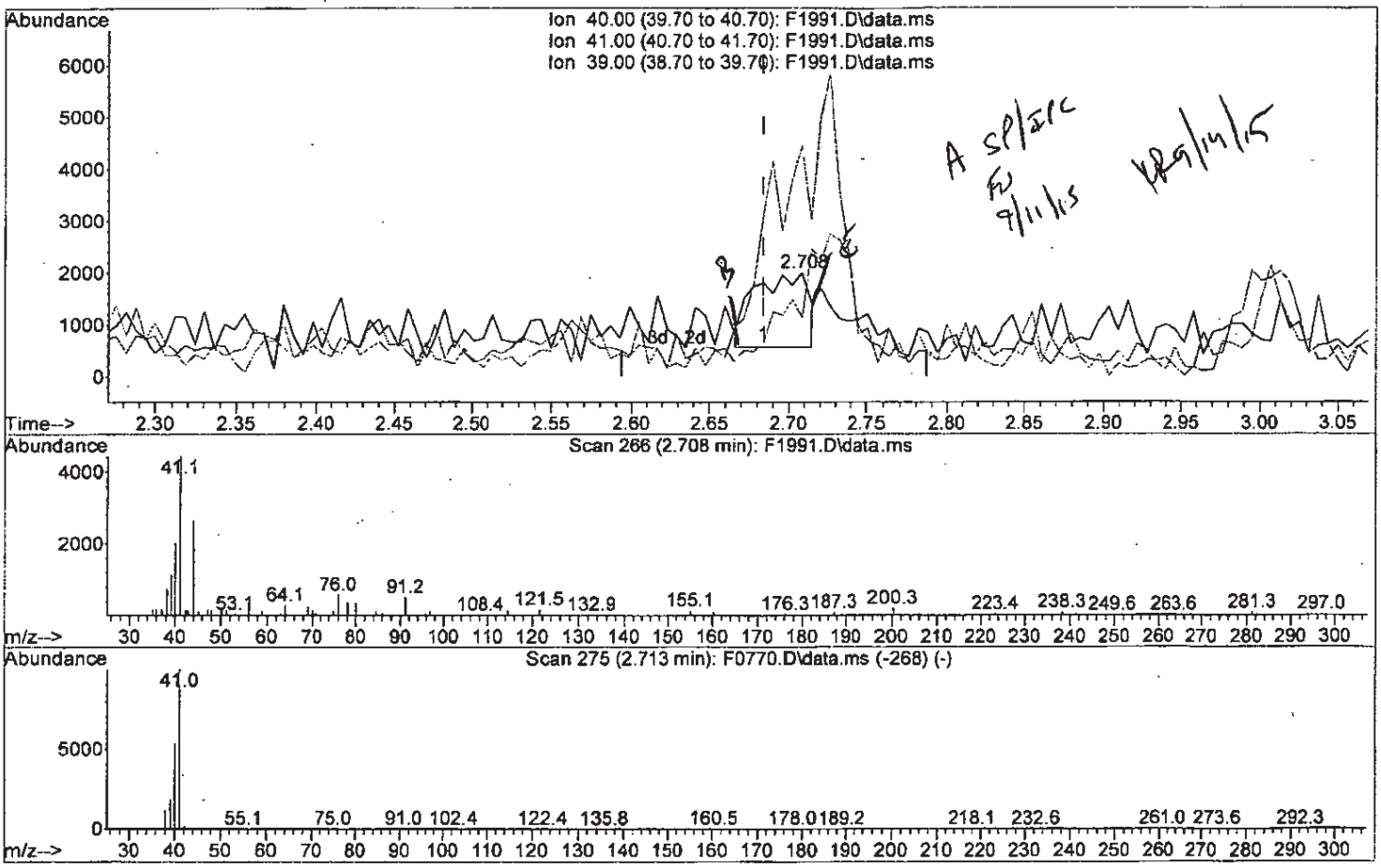
response 1893

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	175.79
39.00	35.30	36.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(19) Acetonitrile

2.708min (+0.024) 2.93 ug/L m

response 3376

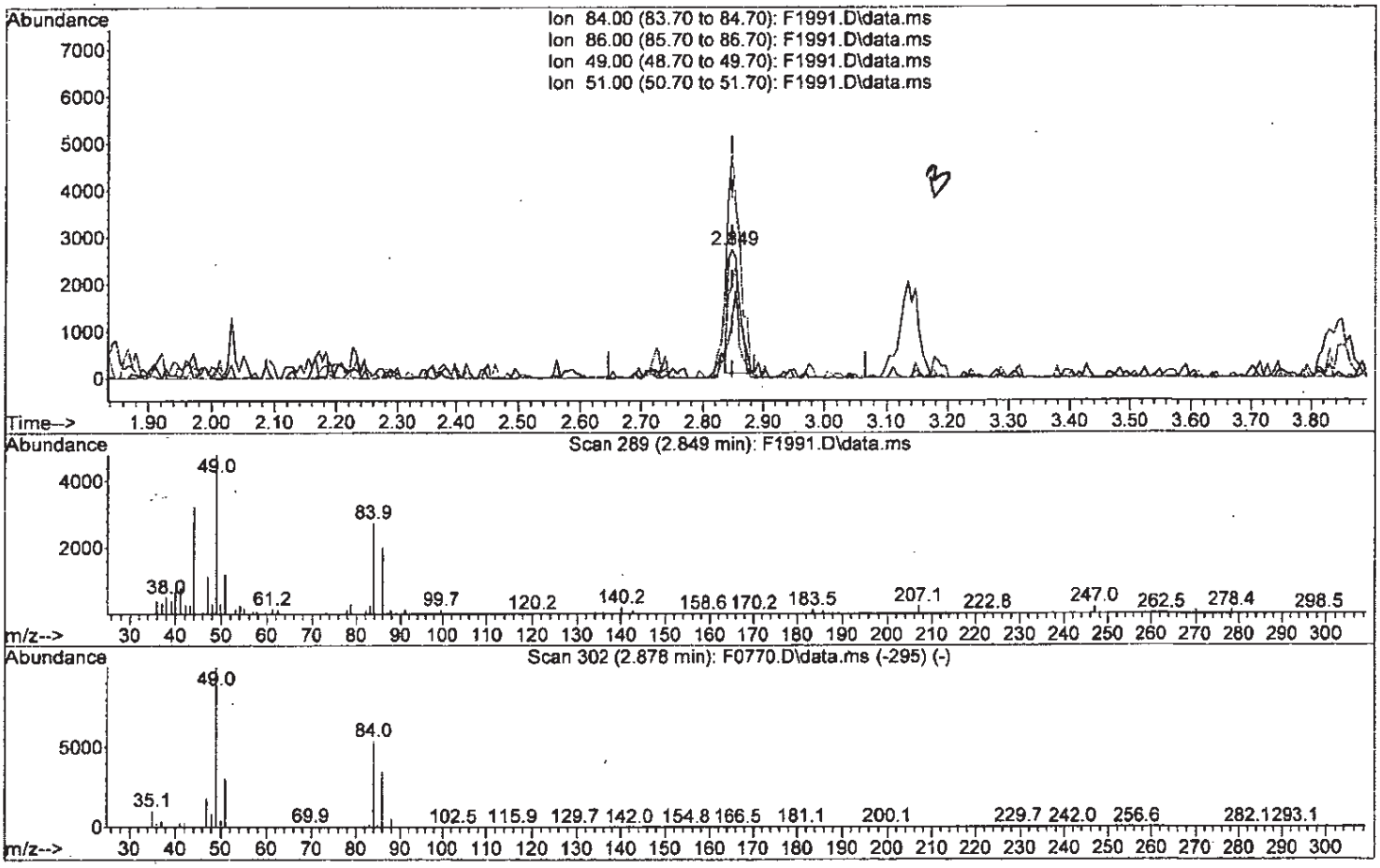
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	221.74#
39.00	35.30	56.92#
0.00	0.00	0.00

00160

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(22) Methylene Chloride (P)

2.849min (+0.000) 0.50 ug/L

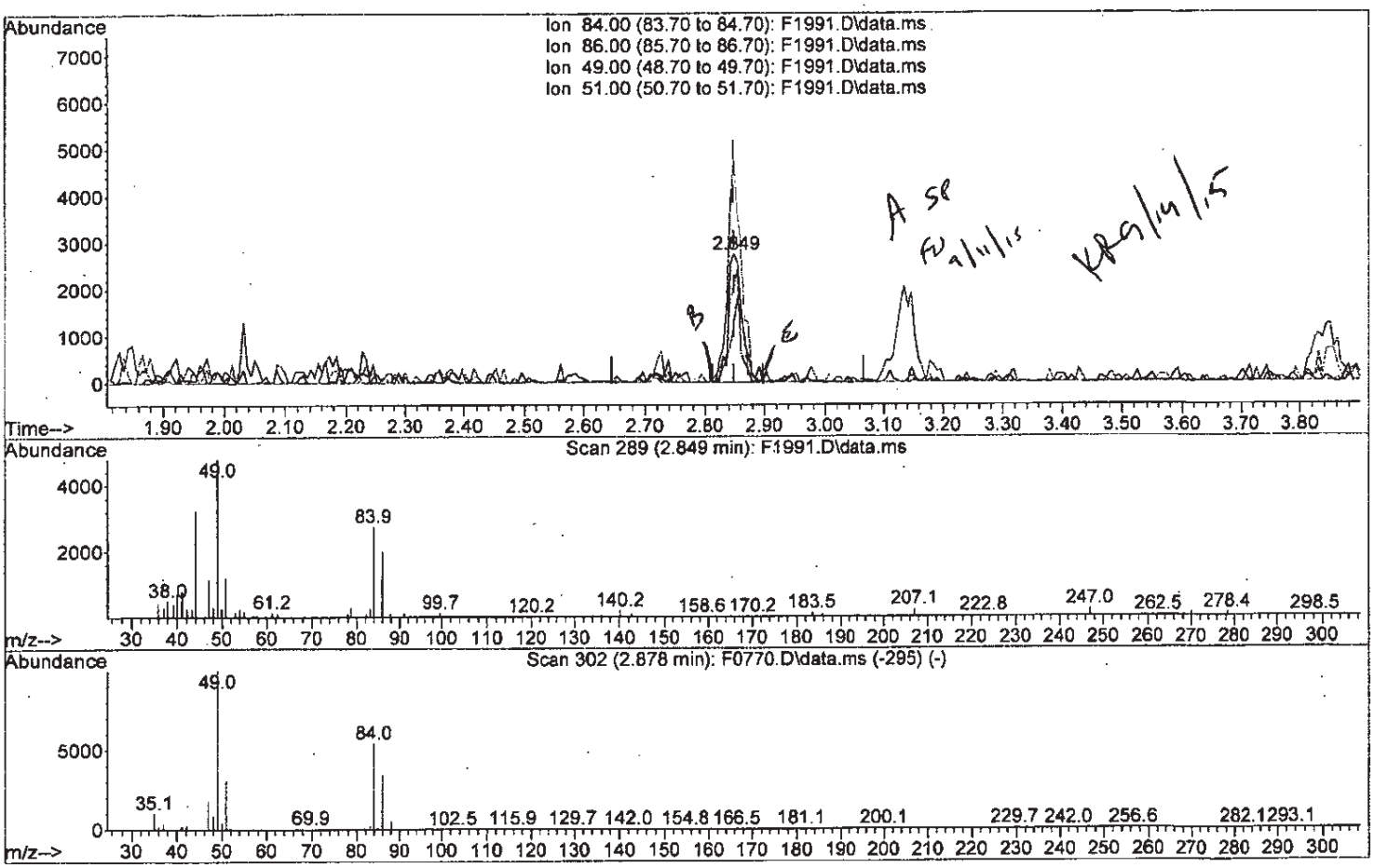
response 3739

Ion	Exp%	Act%
84.00	100	100
86.00	63.40	72.54
49.00	185.00	175.10
51.00	56.30	44.02

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(22) Methylene Chloride (P)

2.849min (+0.000) 0.61 ug/L m

response 4544

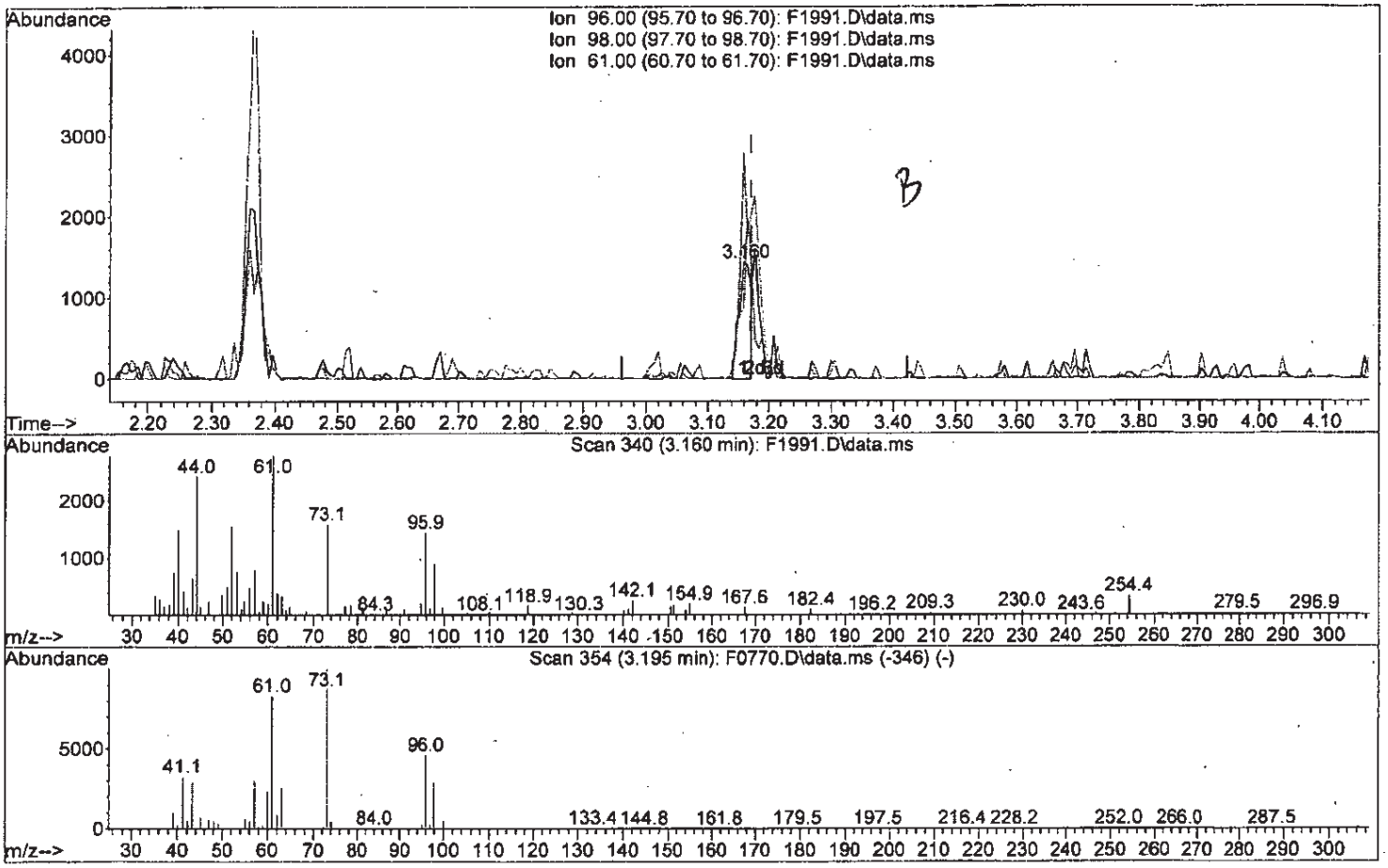
Ion	Exp%	Act%
84.00	100	100
86.00	63.40	72.54
49.00	185.00	175.10
51.00	56.30	44.02

00162

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.160min (-0.012) 0.30 ug/L

response 1978

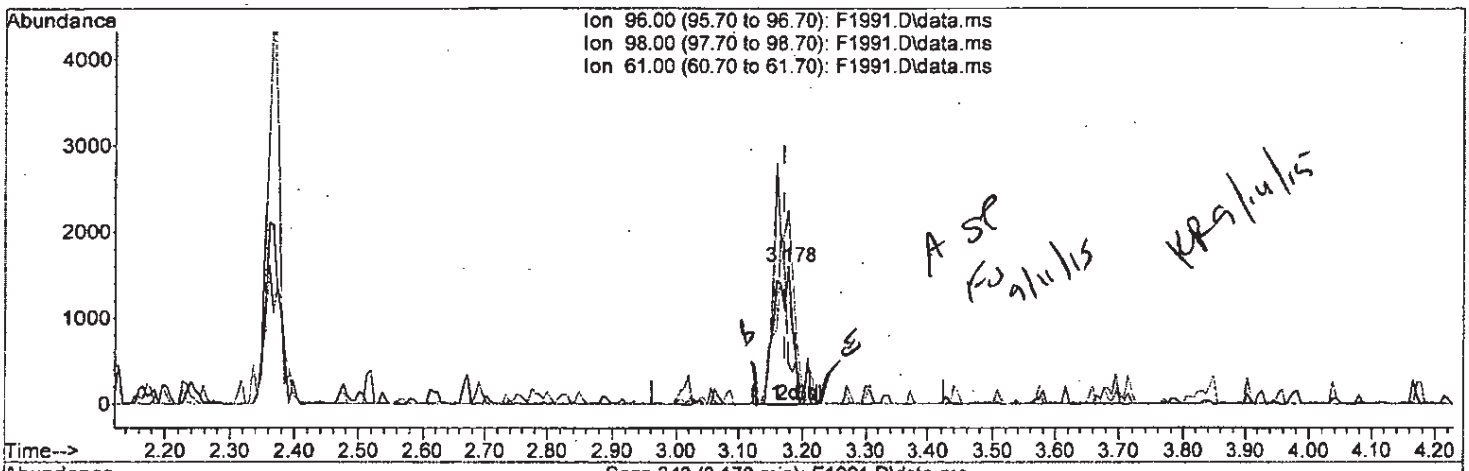
Ion	Exp%	Act%
96.00	100	100
98.00	62.90	61.85
61.00	180.60	194.14
0.00	0.00	0.00

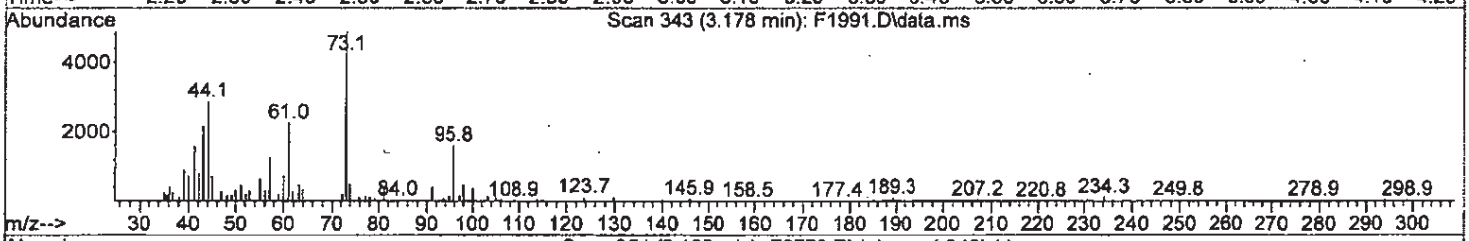
00163

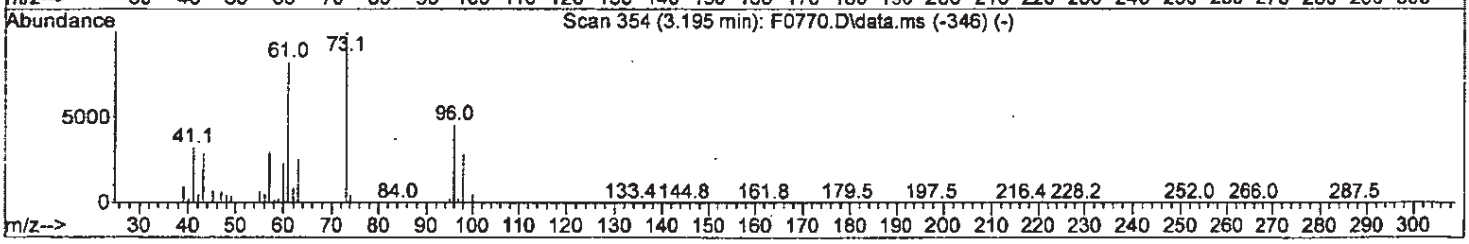
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.178min (+0.006) 0.51 ug/L m

response 3353

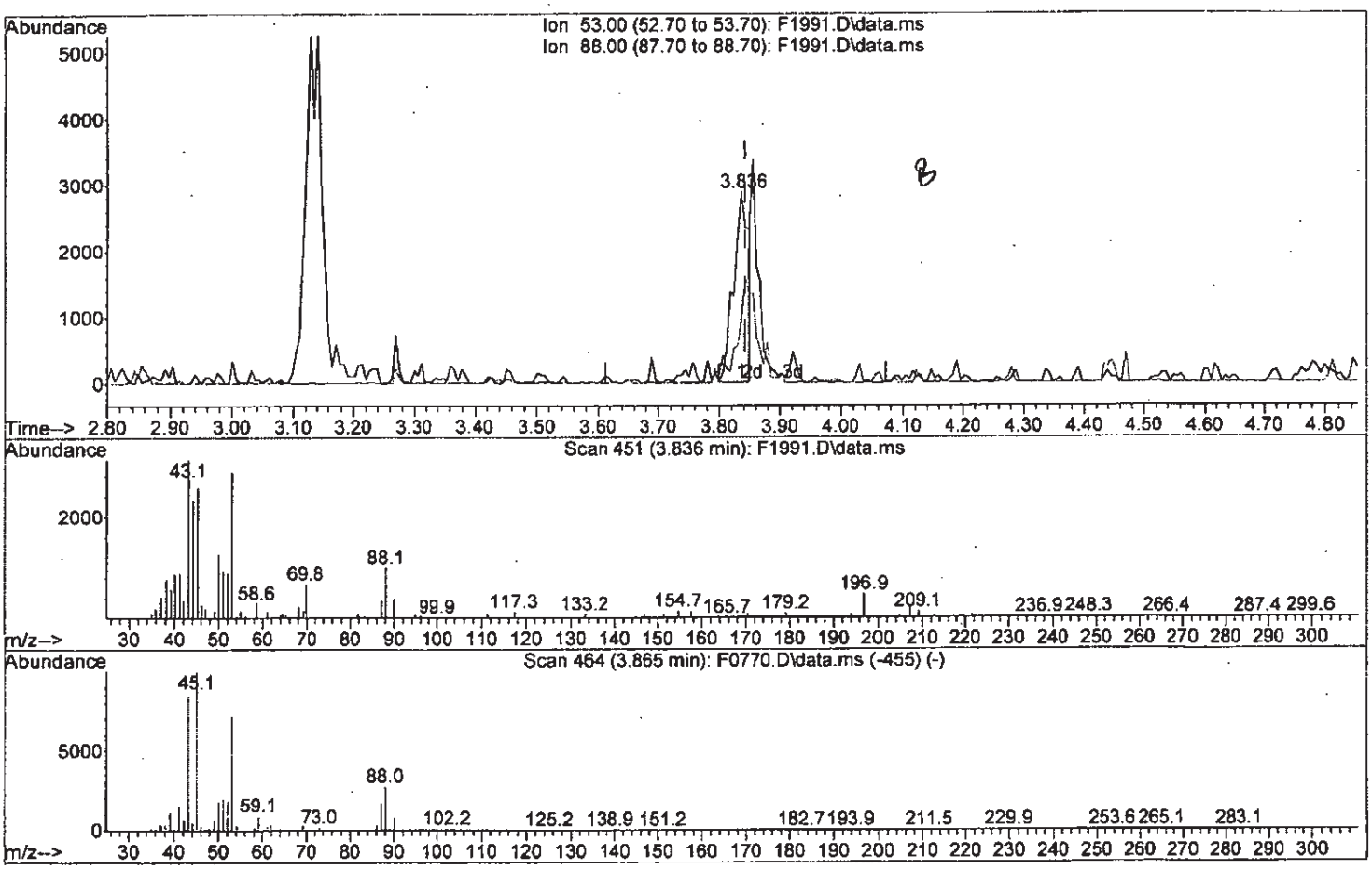
Ion	Exp%	Act%
96.00	100	100
98.00	62.90	30.08#
61.00	180.60	140.71#
0.00	0.00	0.00

00164

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(30) 2-Chloro-1,3-Butadiene

3.836min (-0.006) 0.33 ug/L

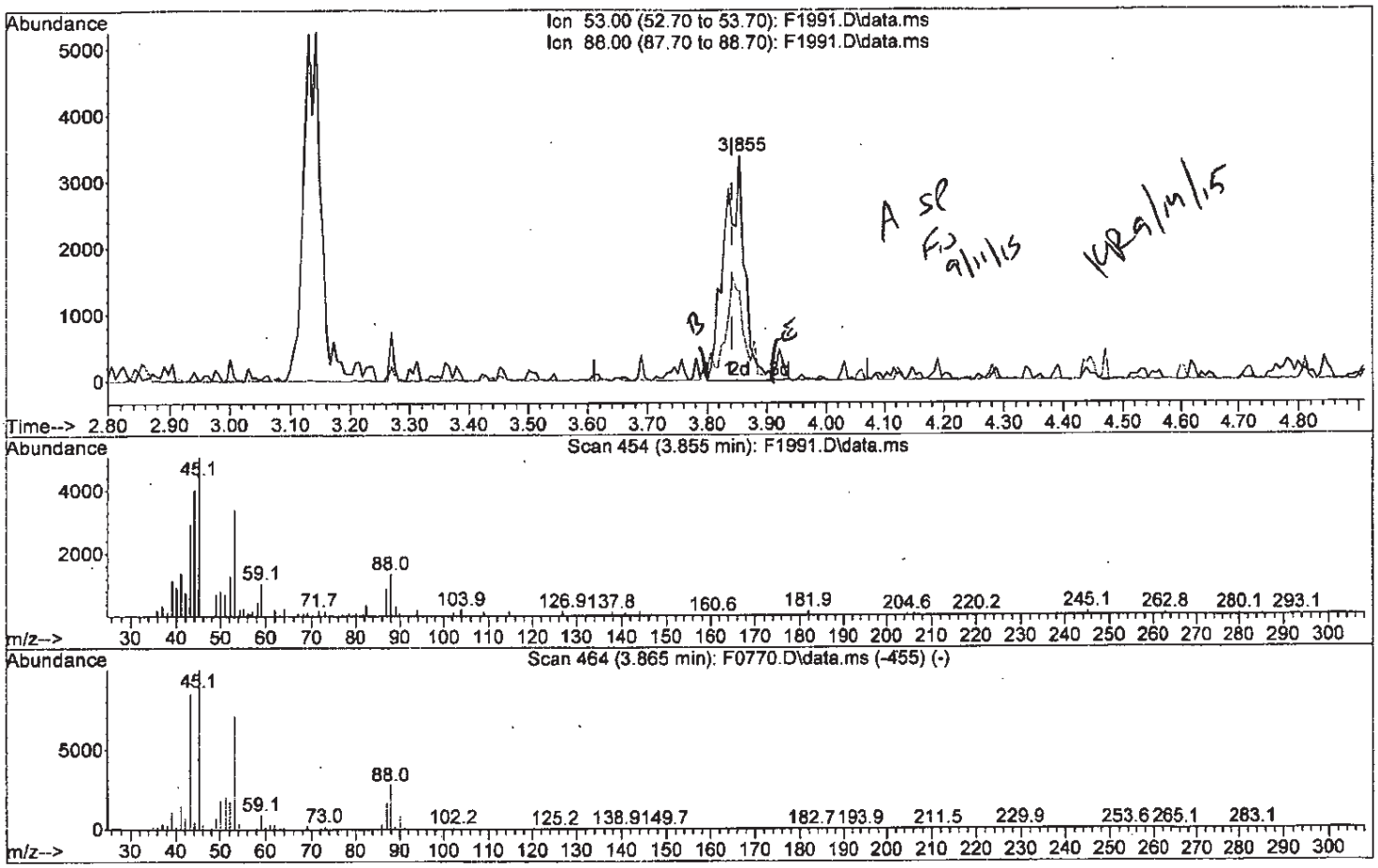
response 4793

Ion	Exp%	Act%
53.00	100	100
88.00	38.50	34.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:55:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(30) 2-Chloro-1,3-Butadiene

3.855min (+0.012) 0.54 ug/L m

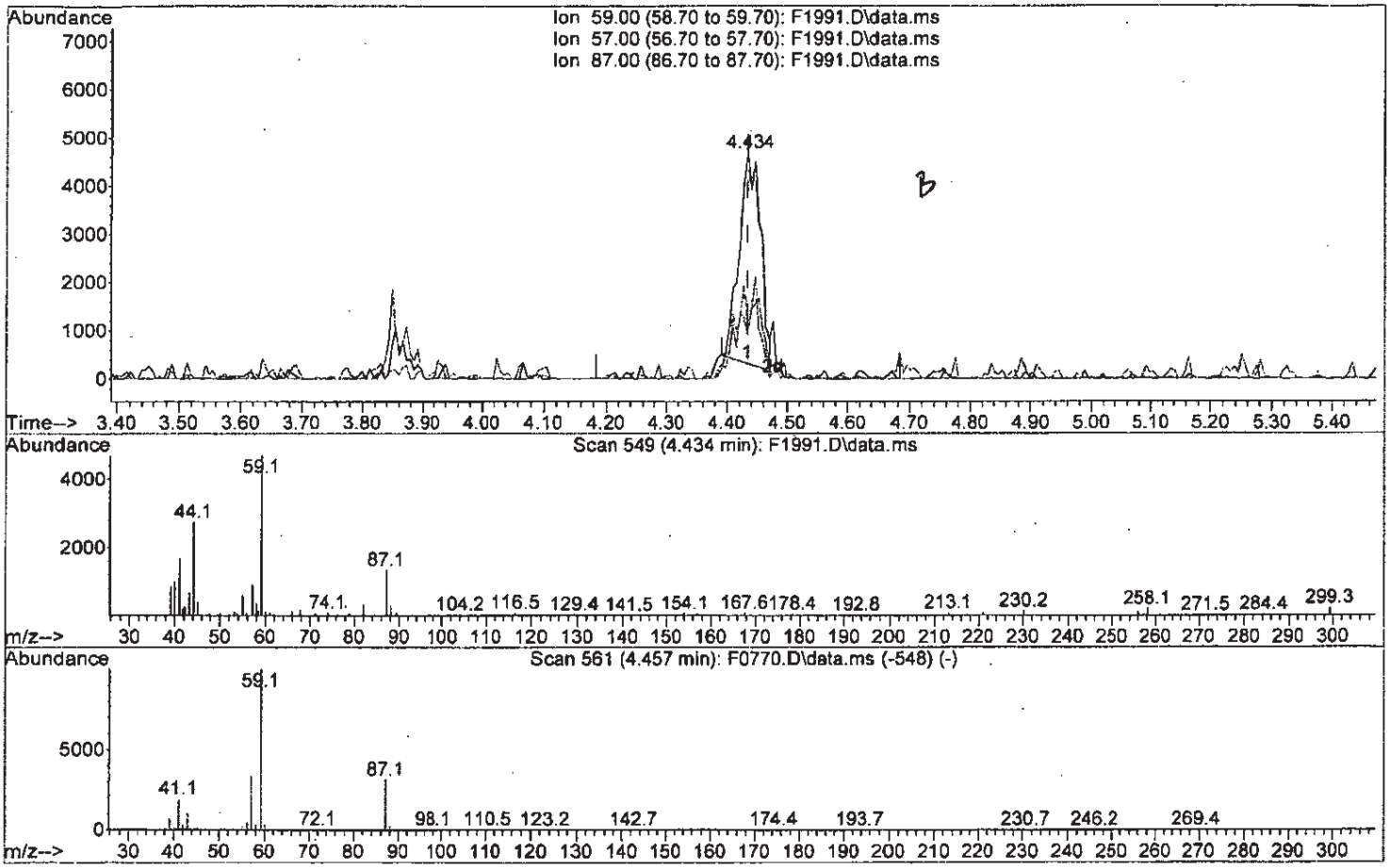
response 7824

Ion	Exp%	Act%
53.00	100	100
88.00	38.50	39.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(31) ETBE

4.434min (+0.000) 0.39 ug/L

response 10652

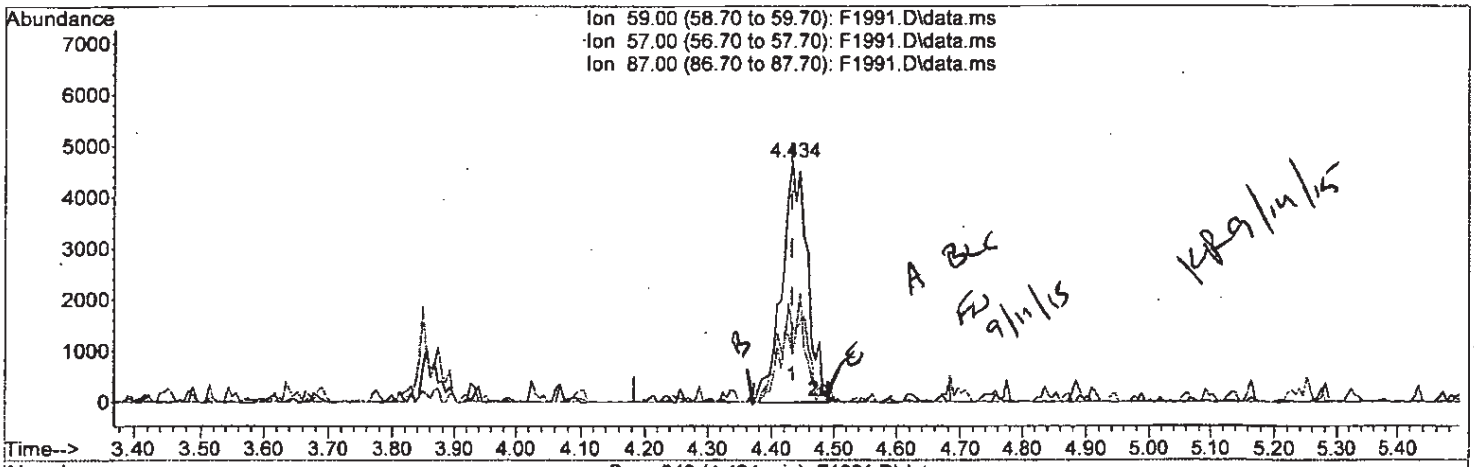
Ion	Exp%	Act%
59.00	100	100
57.00	33.10	19.19
87.00	31.20	28.46
0.00	0.00	0.00

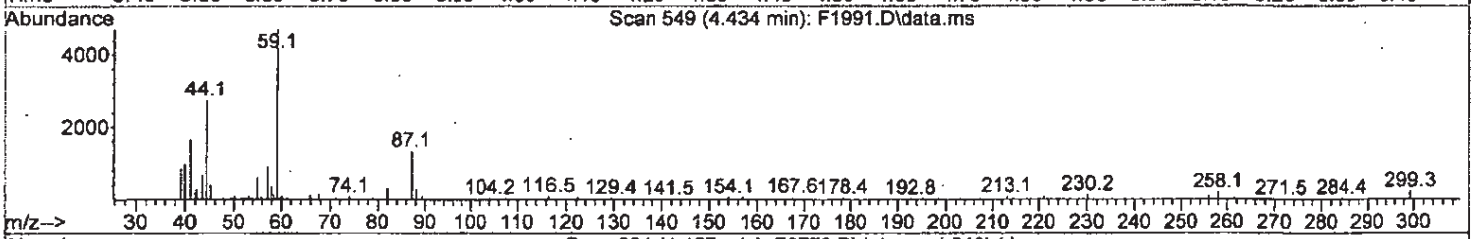
00167

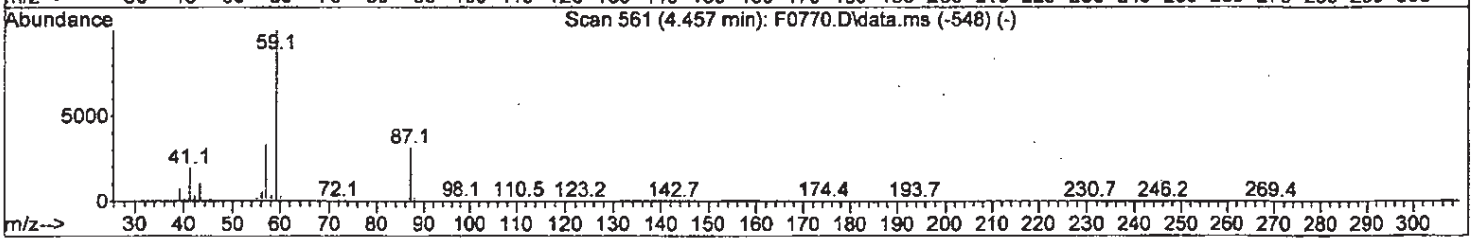
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(31) ETBE

4.434min (+0.000) 0.49 ug/L m

response 13233

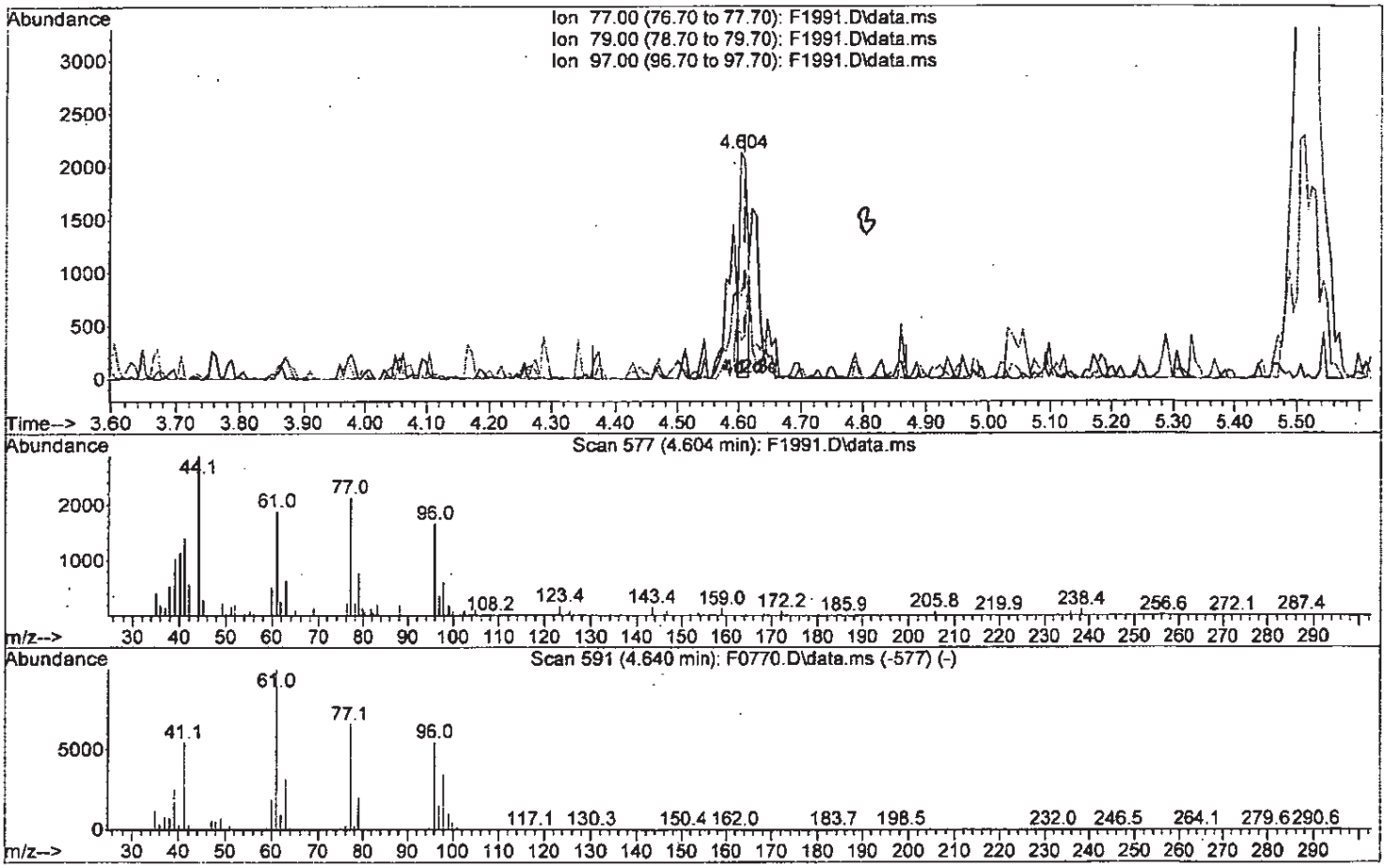
Ion	Exp%	Act%
59.00	100	100
57.00	33.10	19.19
87.00	31.20	28.46
0.00	0.00	0.00

00168

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(32) 2,2-Dichloropropane

4.604min (-0.006) 0.19 ug/L

response 1931

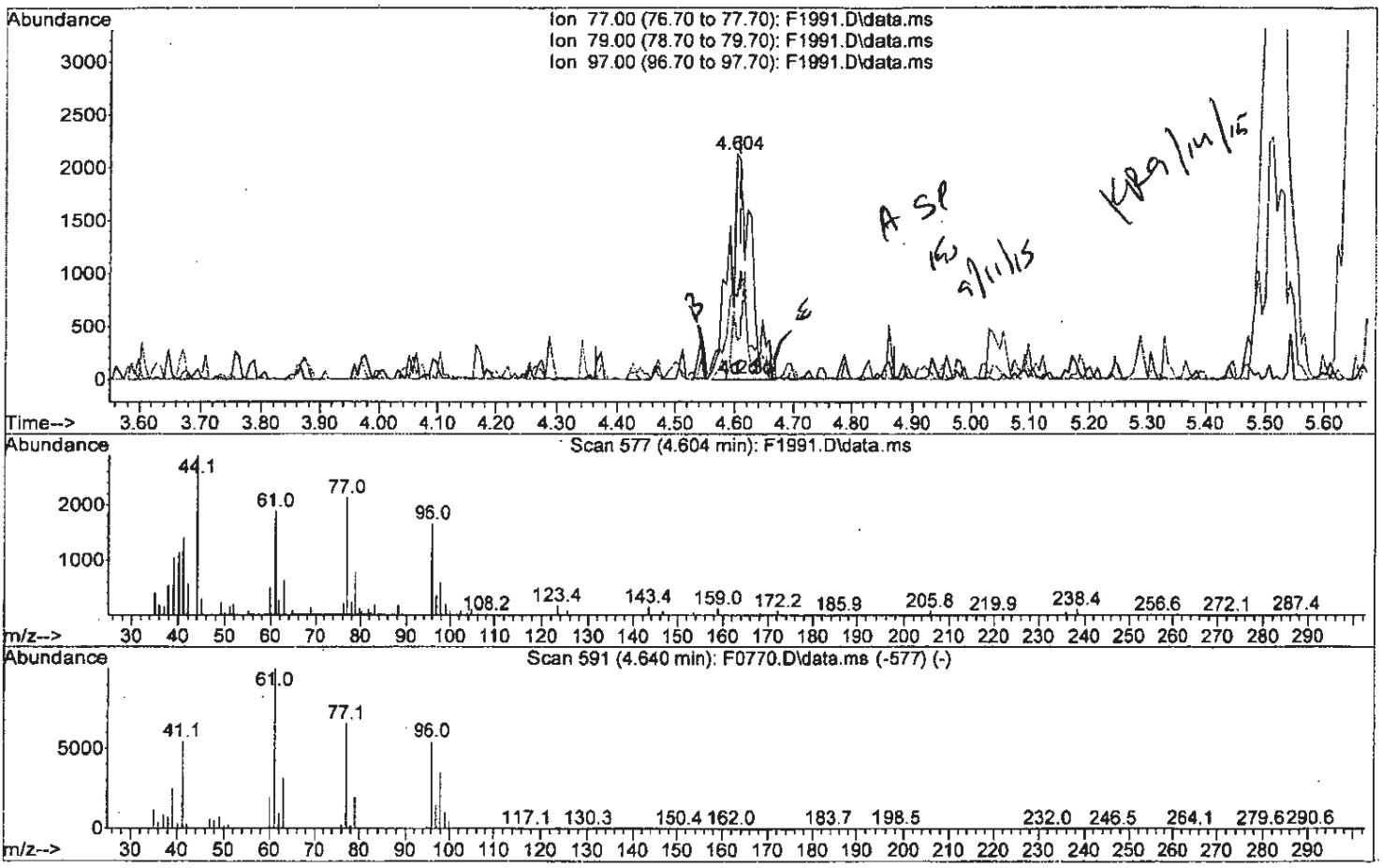
Ion	Exp%	Act%
77.00	100	100
79.00	30.40	36.18
97.00	22.40	16.78
0.00	0.00	0.00

00169

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(32) 2,2-Dichloropropane

4.604min (-0.006) 0.53 ug/L m

response 5445

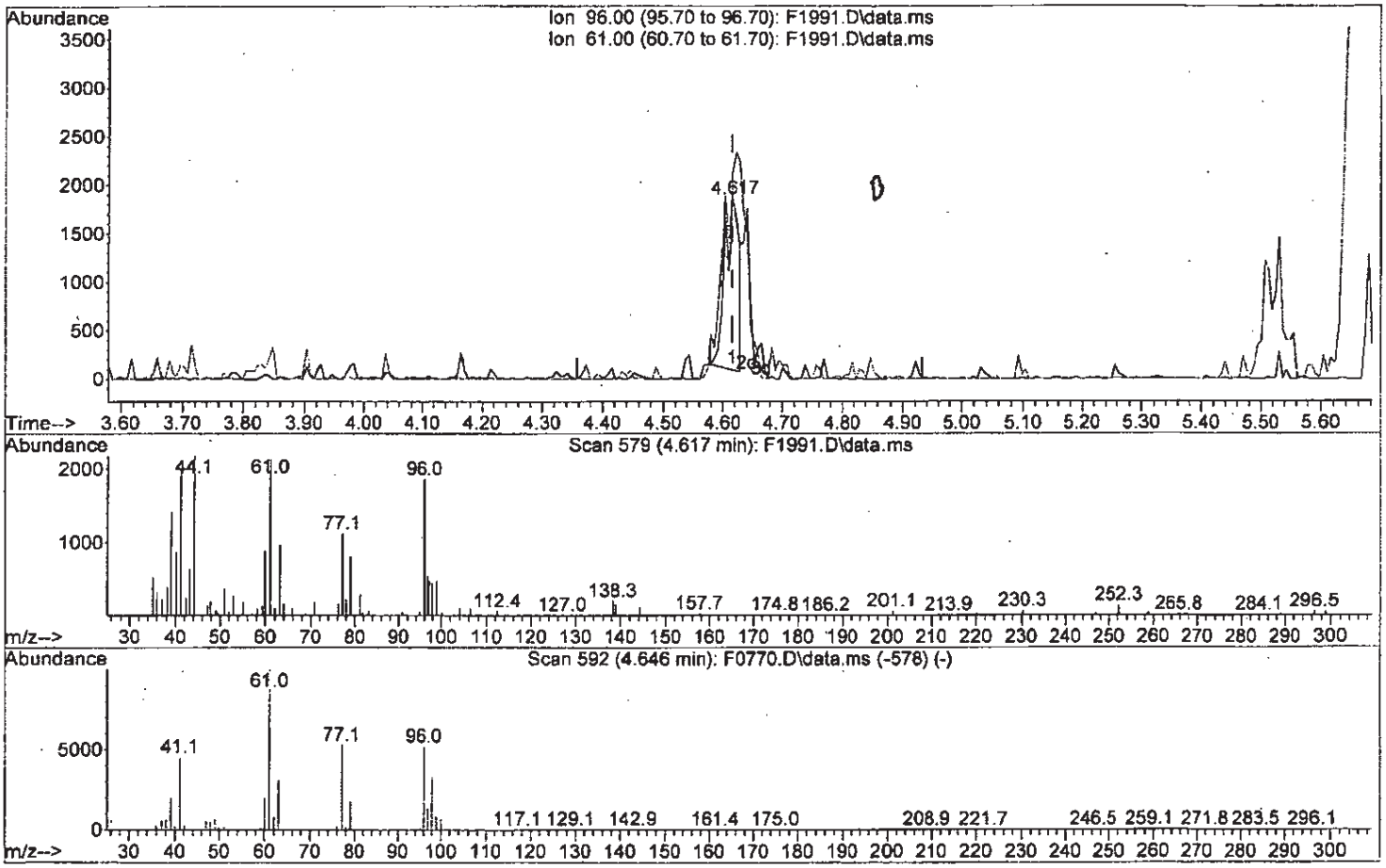
Ion	Exp%	Act%
77.00	100	100
79.00	30.40	36.18
97.00	22.40	16.78
0.00	0.00	0.00

00170

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.617min (+0.000) 0.39 ug/L

response 2908

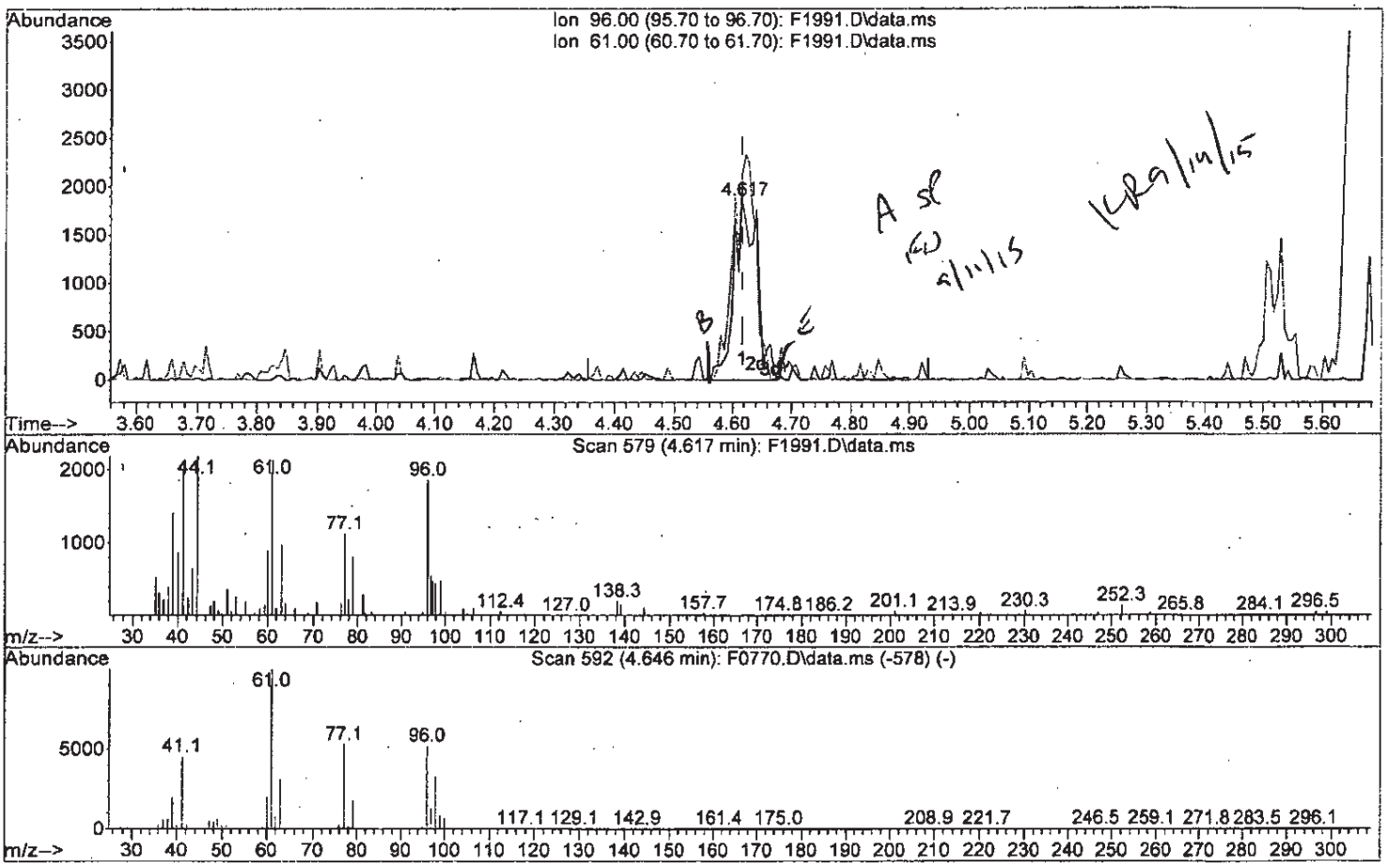
Ion	Exp%	Act%
96.00	100	100
61.00	193.00	114.43#
0.00	0.00	0.00
0.00	0.00	0.00

00171

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:55:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.617min (+0.000) 0.69 ug/L m

response 5159

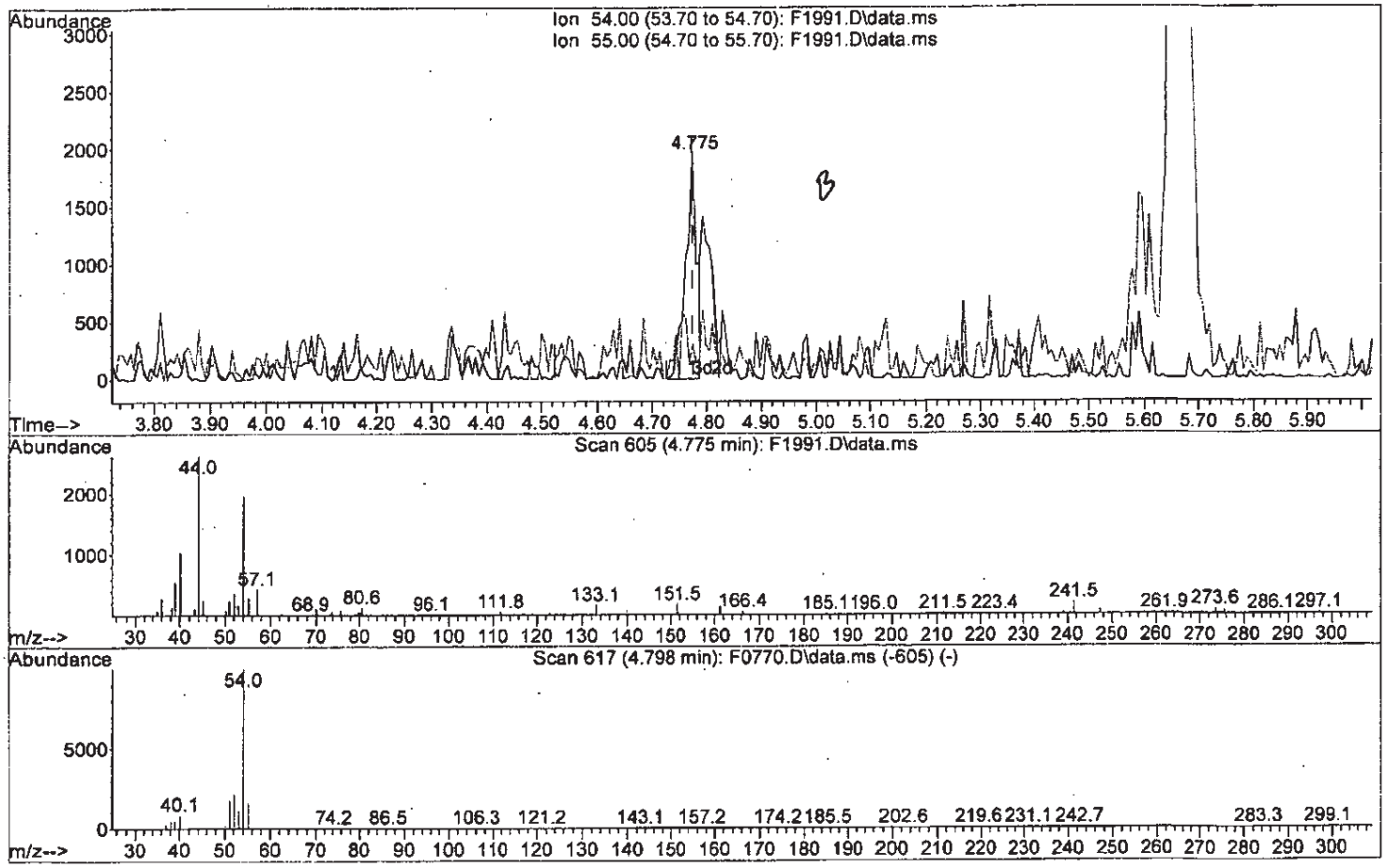
Ion	Exp%	Act%
96.00	100	100
61.00	193.00	114.43#
0.00	0.00	0.00
0.00	0.00	0.00

00172

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(35) Propionitrile

4.775min (+0.000) 1.27 ug/L

response 2723

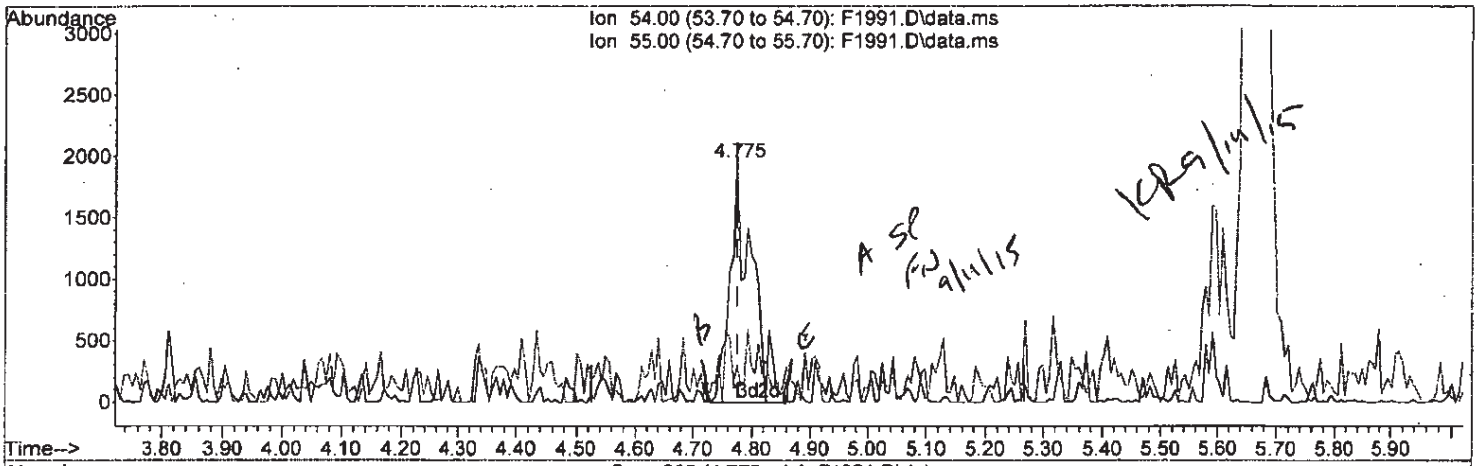
Ion	Exp%	Act%
54.00	100	100
55.00	16.30	15.24
0.00	0.00	0.00
0.00	0.00	0.00

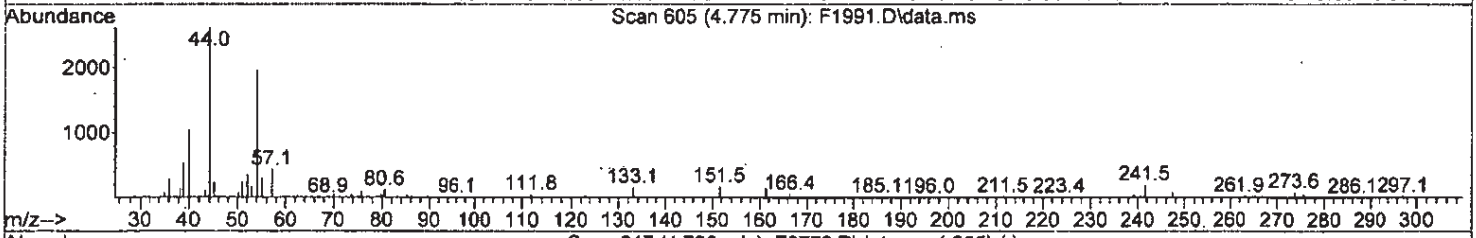
00173

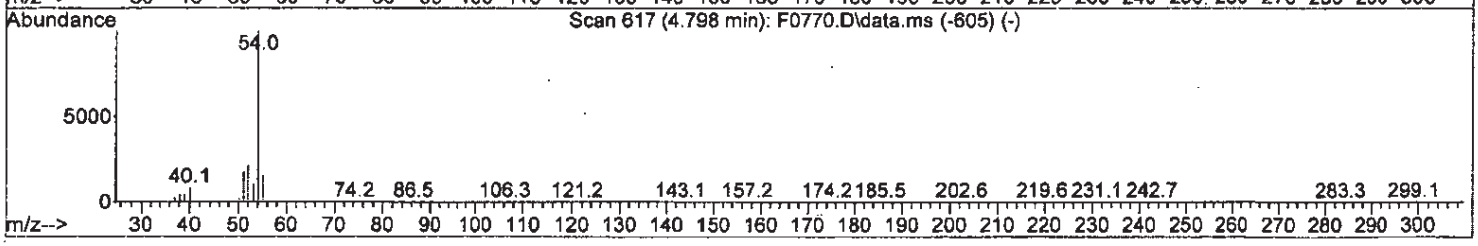
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(35) Propionitrile

4.775min (+0.000) 2.36 ug/L m

response 5052

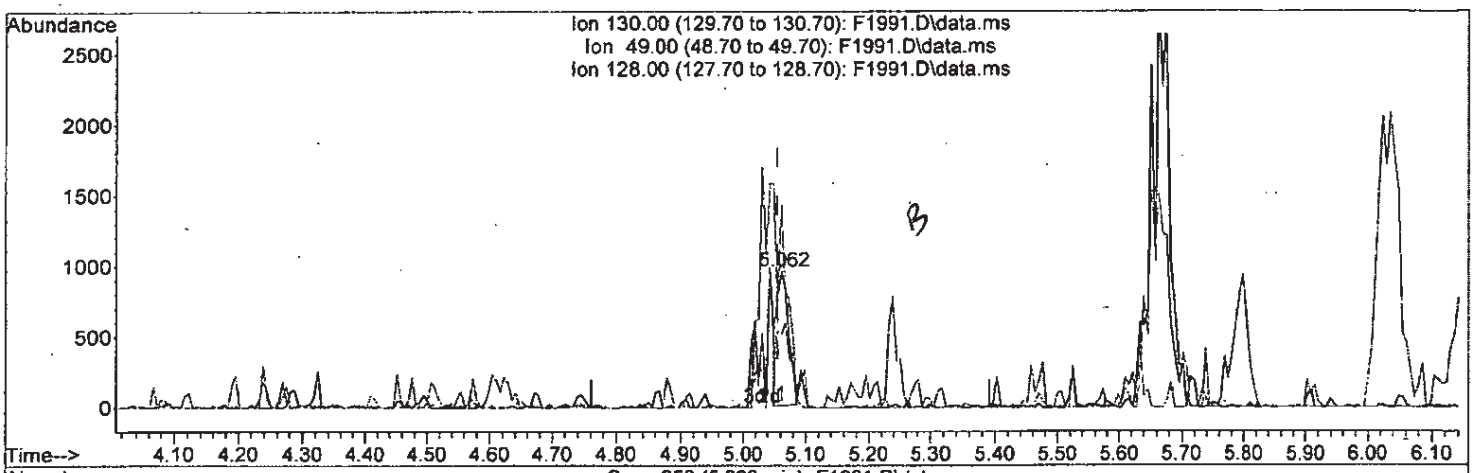
Ion	Exp%	Act%
54.00	100	100
55.00	16.30	15.24
0.00	0.00	0.00
0.00	0.00	0.00

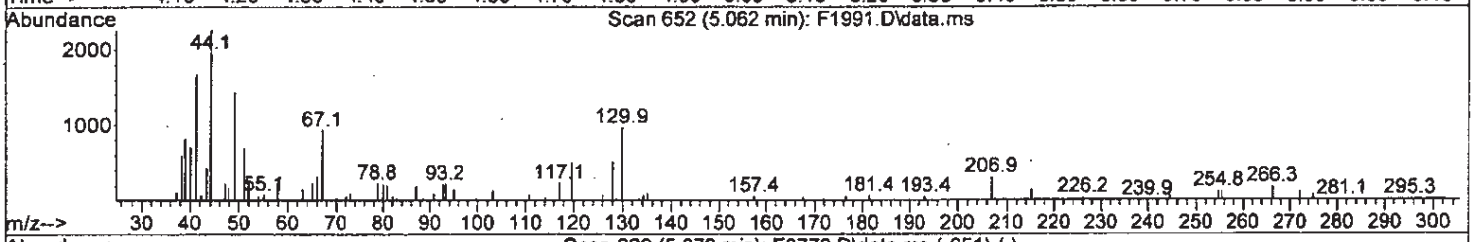
00174

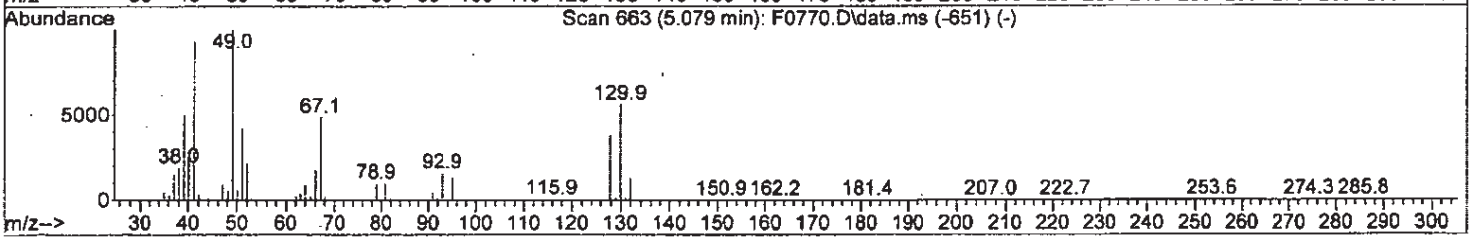
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(36) Bromochloromethane

5.062min (+0.006) 0.25 ug/L

response 1216

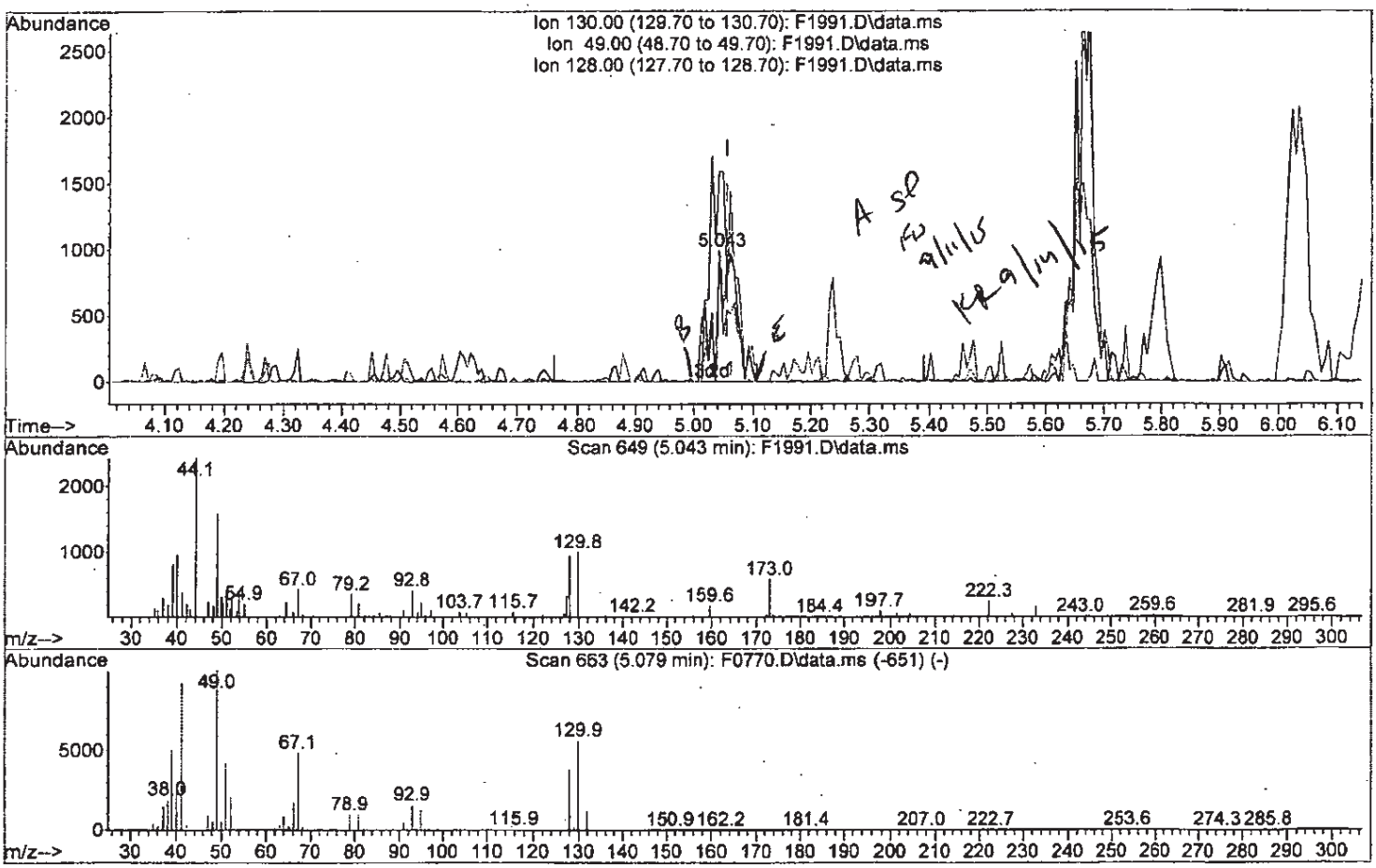
Ion	Exp%	Act%
130.00	100	100
49.00	177.90	148.70#
128.00	68.20	56.49
0.00	0.00	0.00

00175

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(36) Bromochloromethane

5.043min (-0.012) 0.50 ug/L m

response 2414

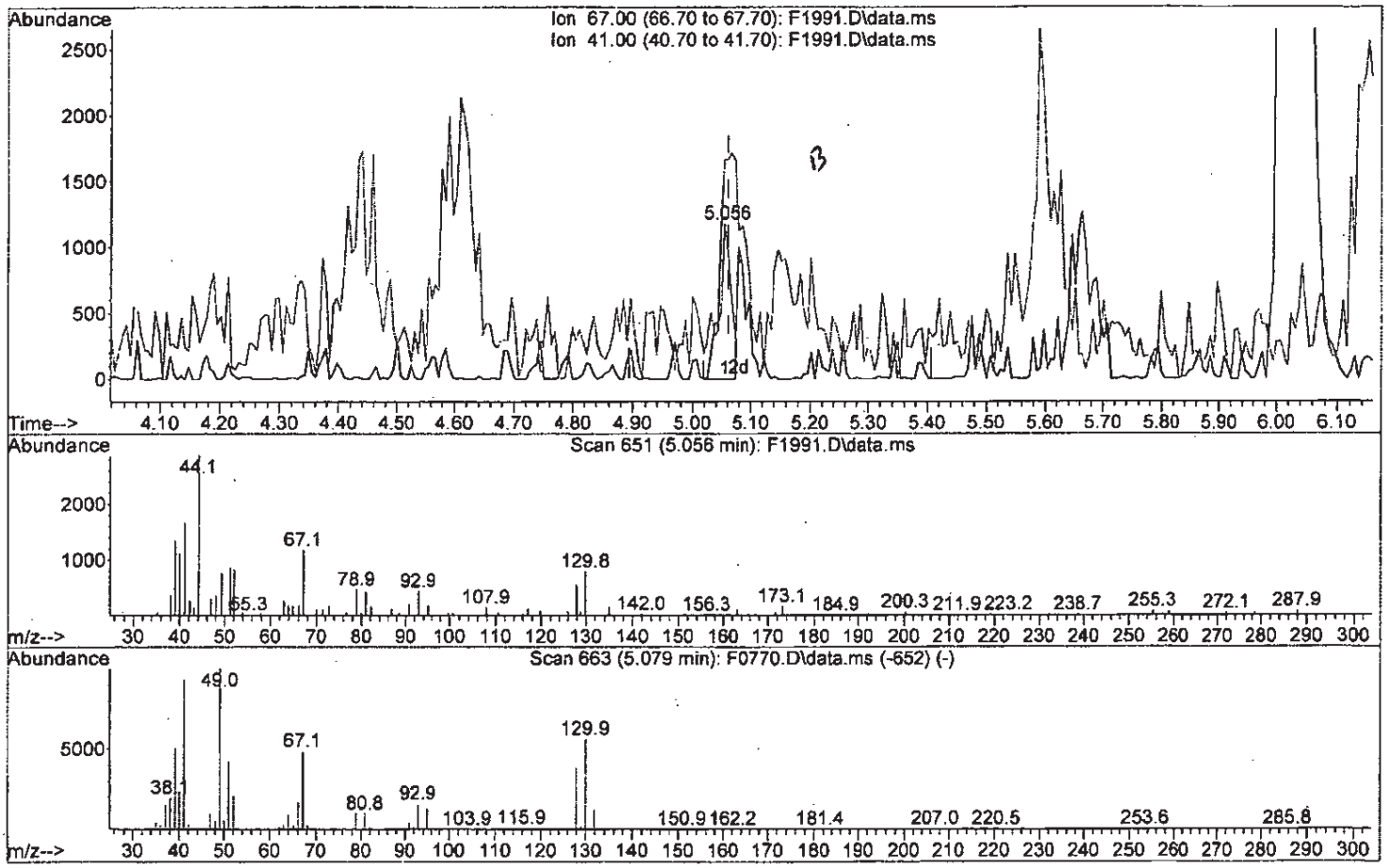
Ion	Exp%	Act%
130.00	100	100
49.00	177.90	160.22
128.00	68.20	96.05#
0.00	0.00	0.00

00176

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(37) Methacrylonitrile

5.056min (-0.006) 0.35 ug/L

response 1671

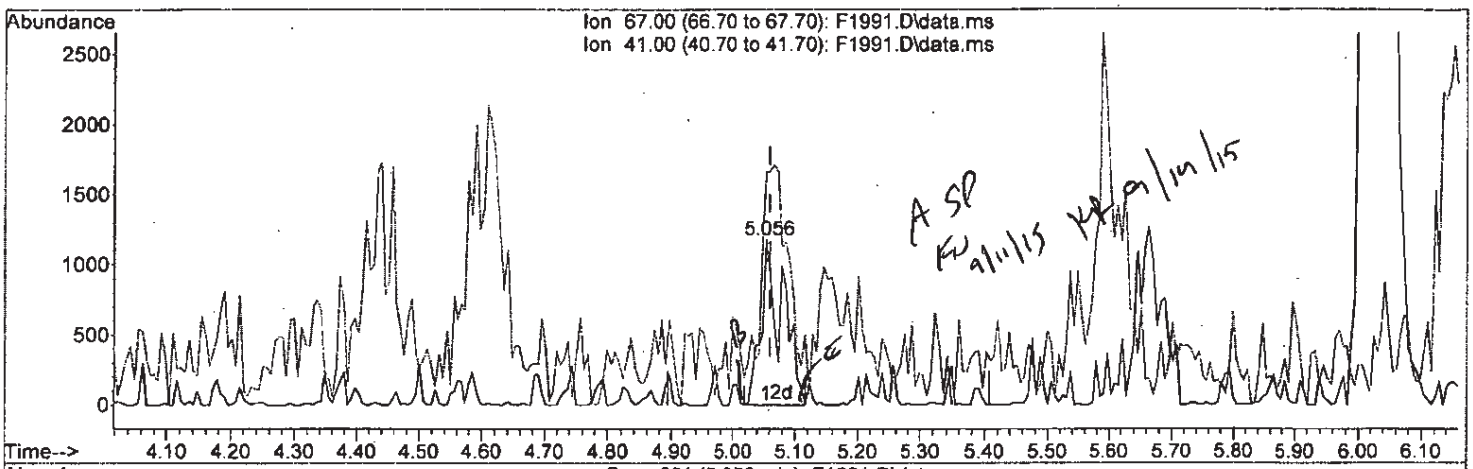
Ion	Exp%	Act%
67.00	100	100
41.00	191.80	140.90#
0.00	0.00	0.00
0.00	0.00	0.00

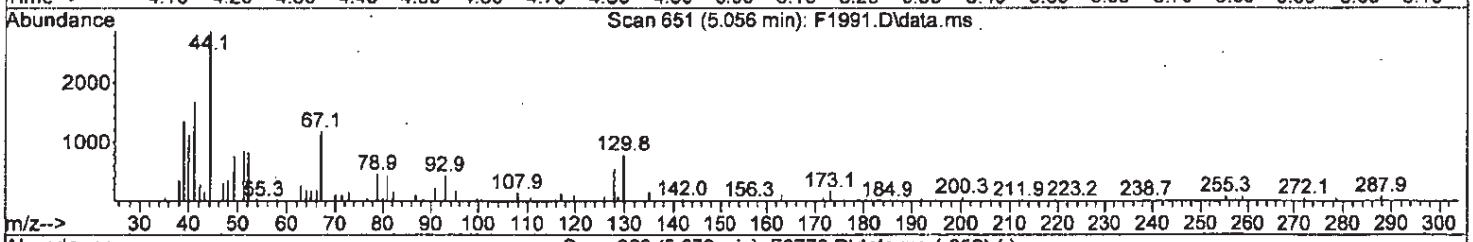
00177

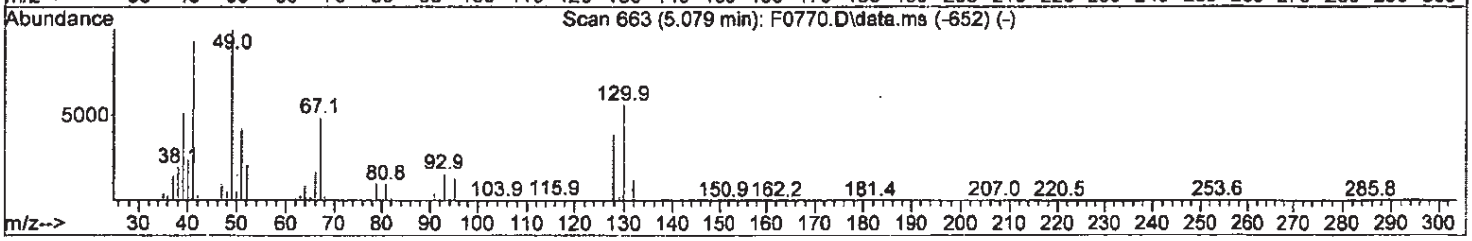
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(37) Methacrylonitrile

5.056min (-0.006) 0.60 ug/L m

response 2836

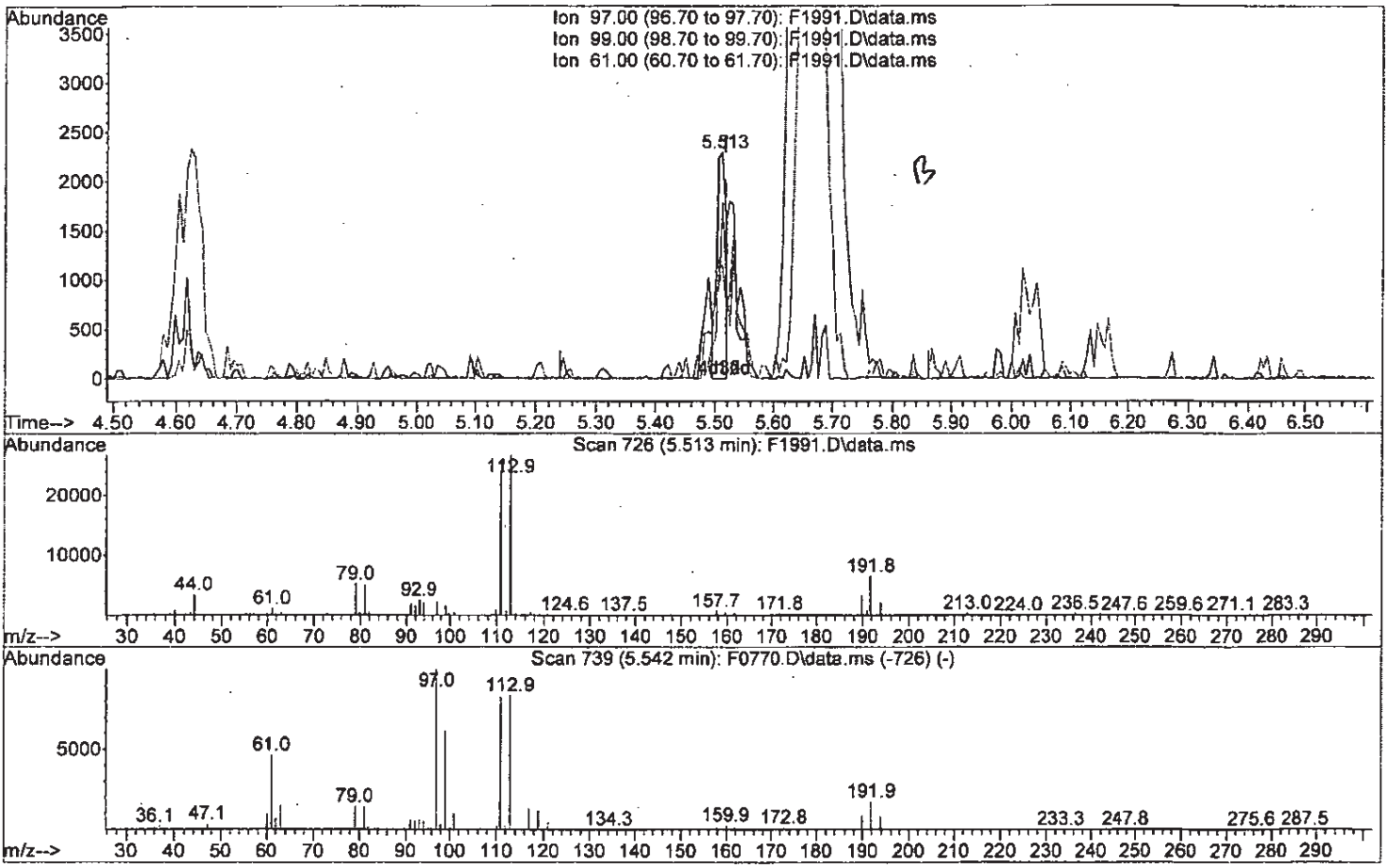
Ion	Exp%	Act%
67.00	100	100
41.00	191.80	140.90#
0.00	0.00	0.00
0.00	0.00	0.00

00178

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(40) 1,1,1-Trichloroethane (P)

5.513min (-0.006) 0.23 ug/L

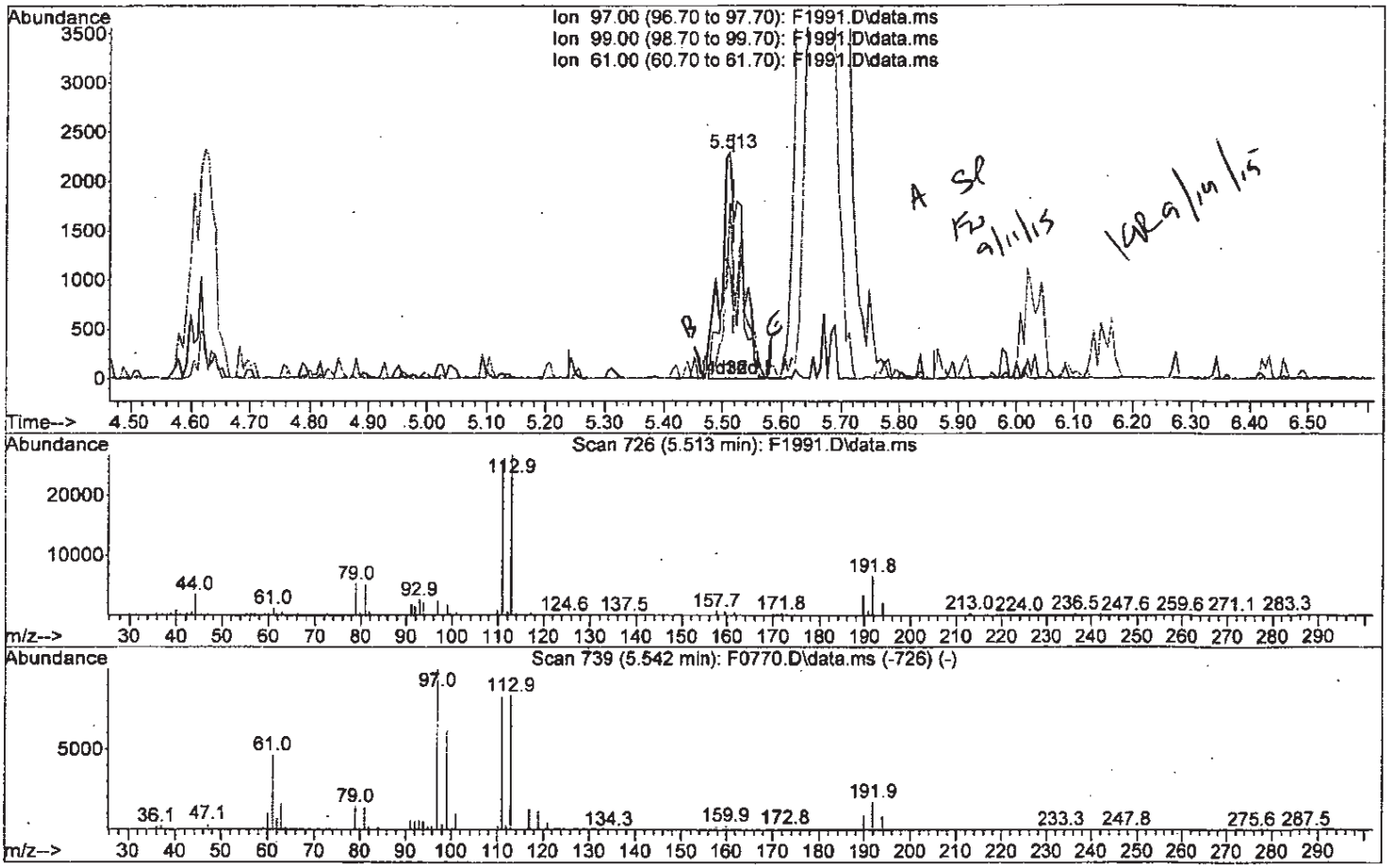
response 2511

Ion	Exp%	Act%
97.00	100	100
99.00	61.50	77.48
61.00	46.40	54.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(40) 1,1,1-Trichloroethane (P)

5.513min (-0.006) 0.53 ug/L m

response 5769

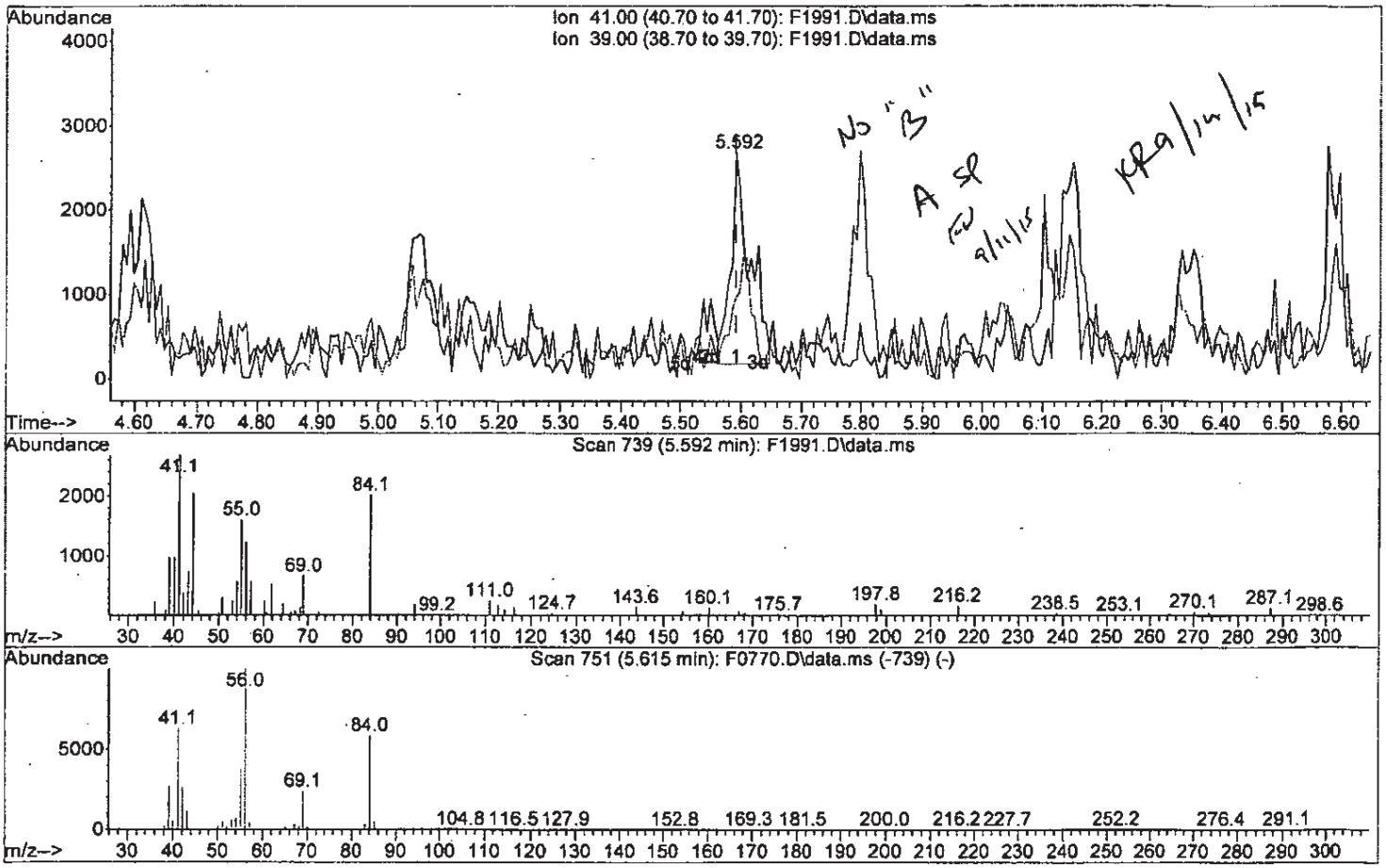
Ion	Exp%	Act%
97.00	100	100
99.00	61.50	66.87
61.00	46.40	48.67
0.00	0.00	0.00

00180

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(42) Cyclohexane (P)

5.592min (+0.000) 0.59 ug/L m

response 5477

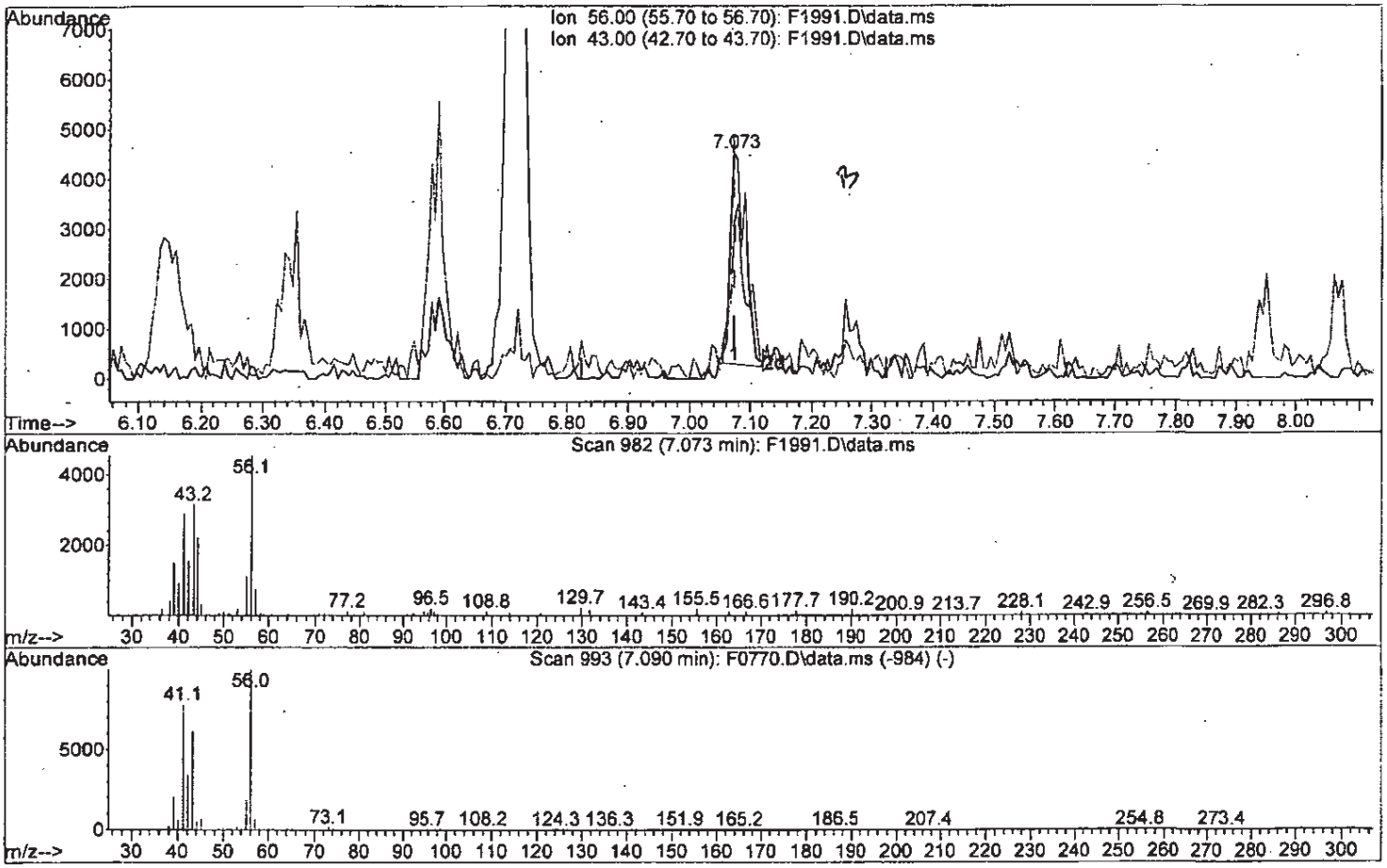
Ion	Exp%	Act%
41.00	100	100
39.00	42.40	35.86
0.00	0.00	0.00
0.00	0.00	0.00

00181

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(52) 1-Butanol

7.073min (+0.000) 13.86 ug/L

response 7312

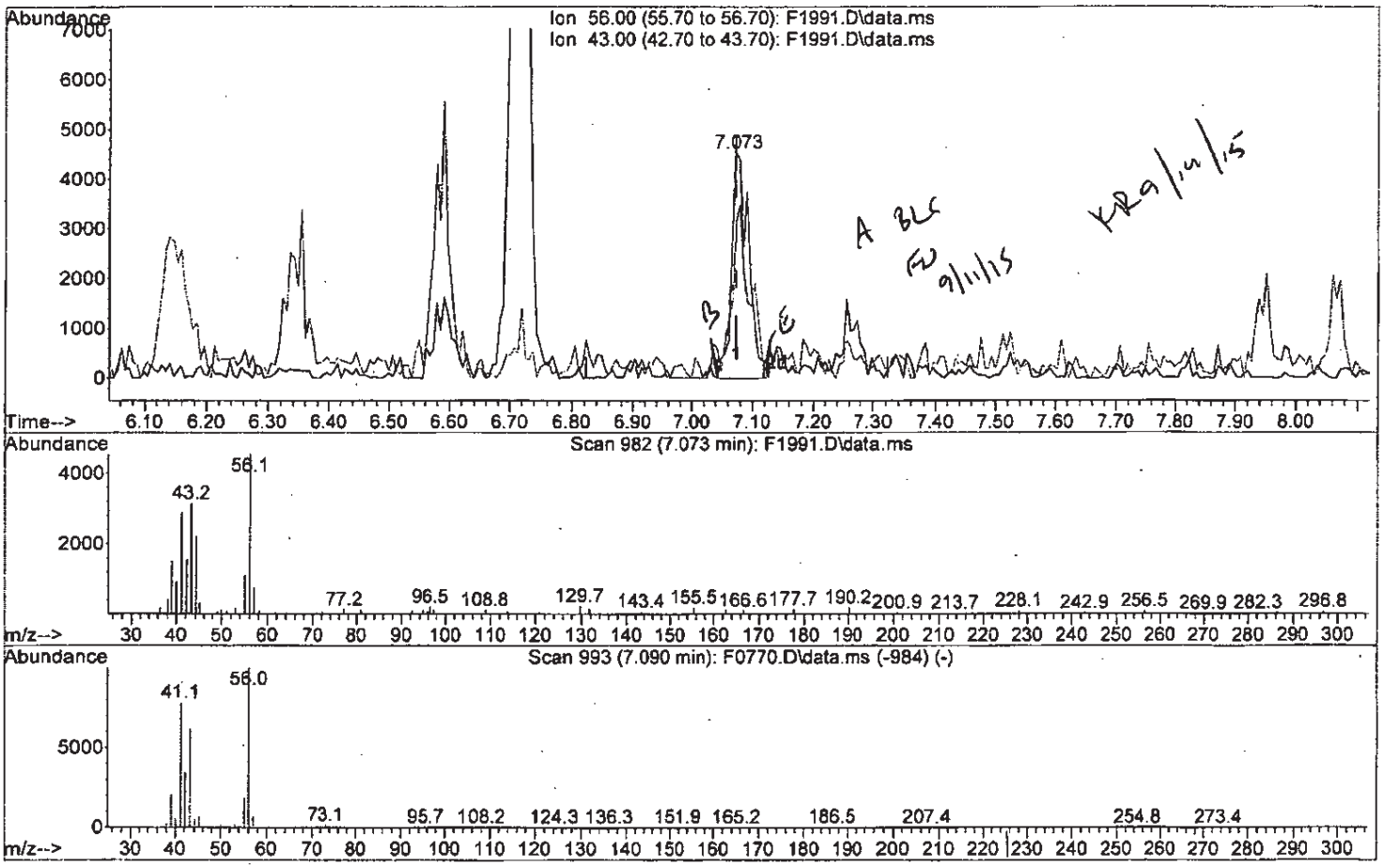
Ion	Exp%	Act%
56.00	100	100
43.00	62.00	69.26
0.00	0.00	0.00
0.00	0.00	0.00

00182

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(52) 1-Butanol

7.073min (+0.000) 16.58 ug/L m

response 8745

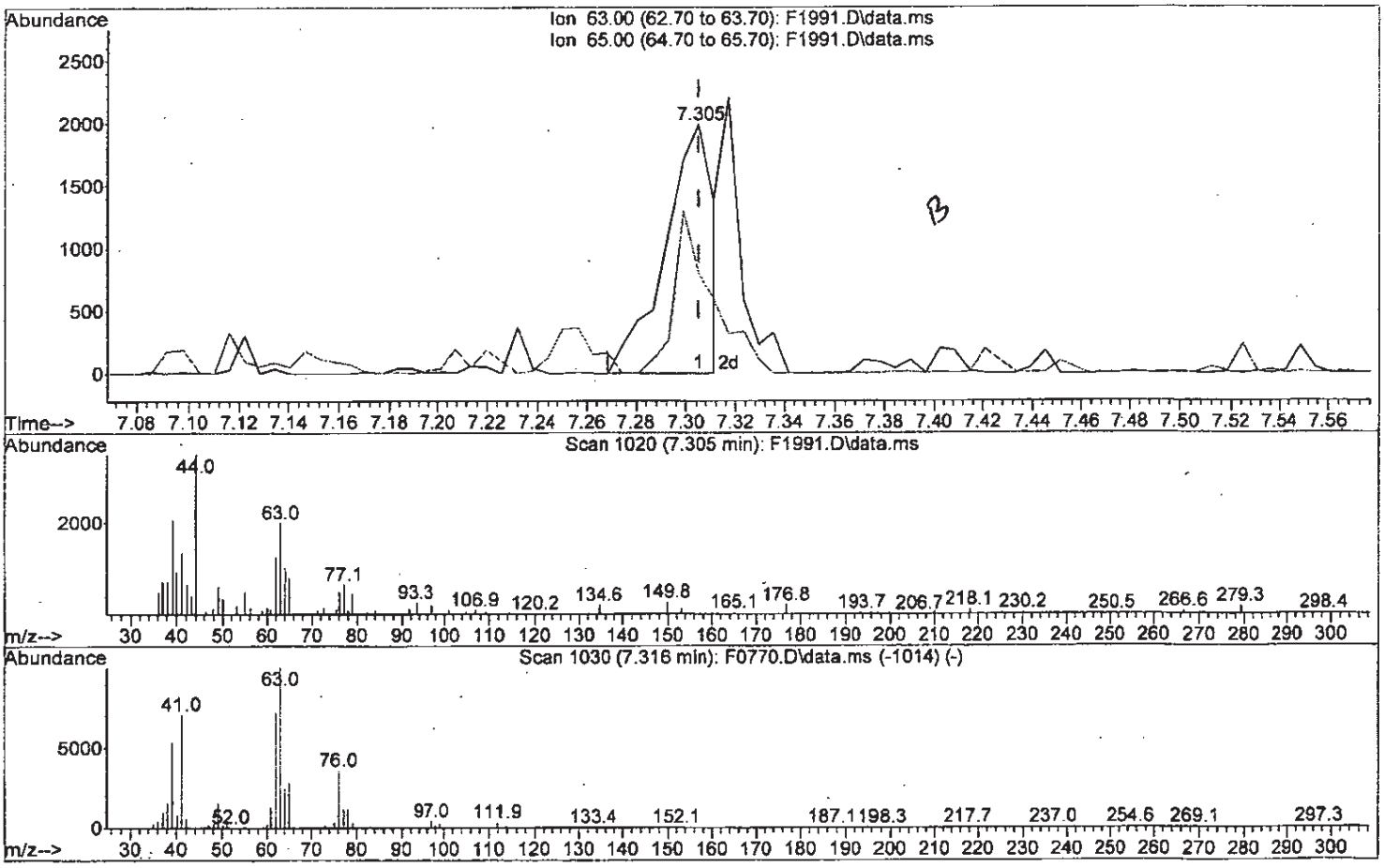
Ion	Exp%	Act%
56.00	100	100
43.00	62.00	69.26
0.00	0.00	0.00
0.00	0.00	0.00

00183

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(55) 1,2-Dichloropane (P)

7.305min (+0.000) 0.33 ug/L

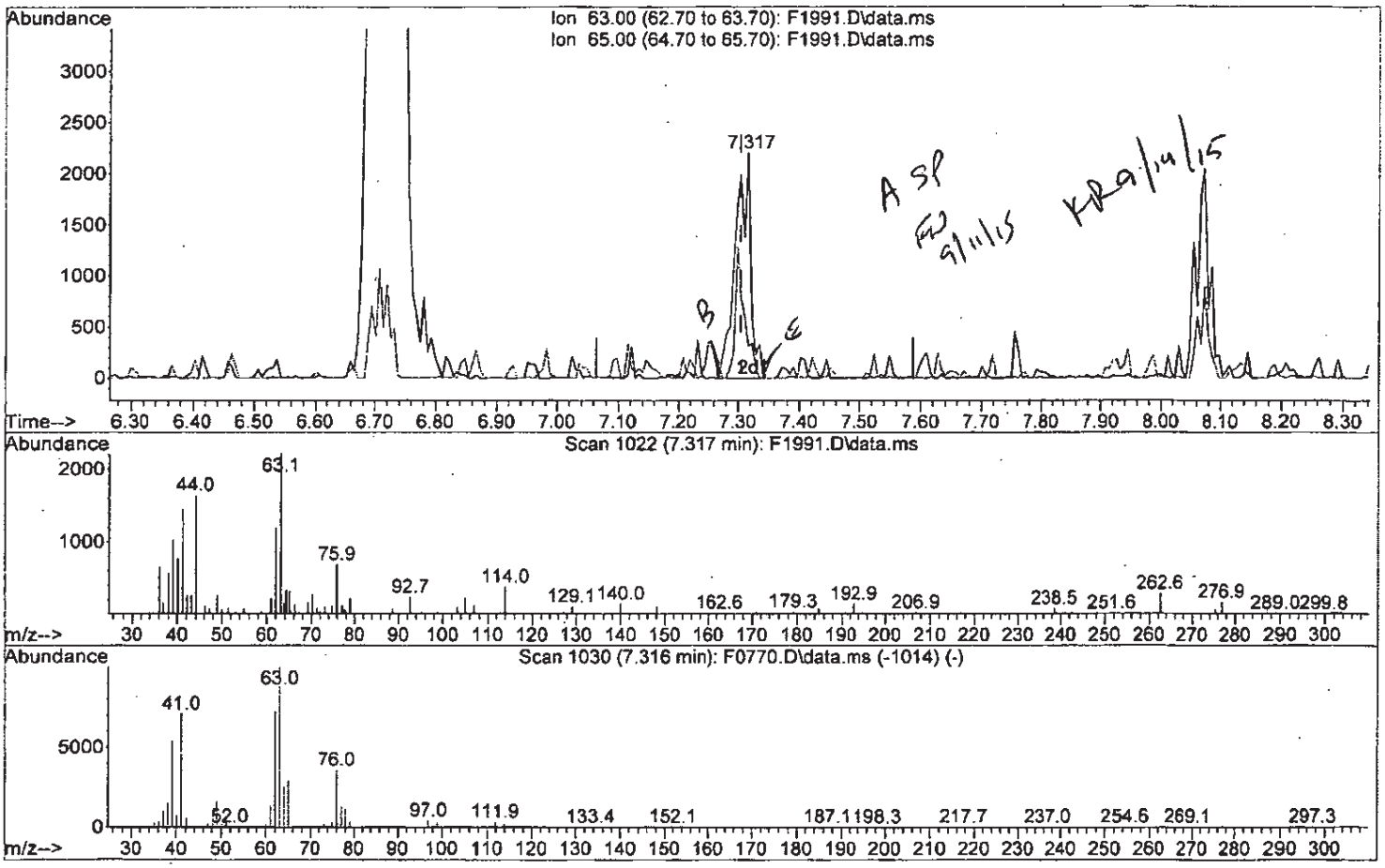
response 2686

Ion	Exp%	Act%
63.00	100	100
65.00	28.60	39.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(55) 1,2-Dichloropropane (P)

7.317min (+0.012) 0.48 ug/L m

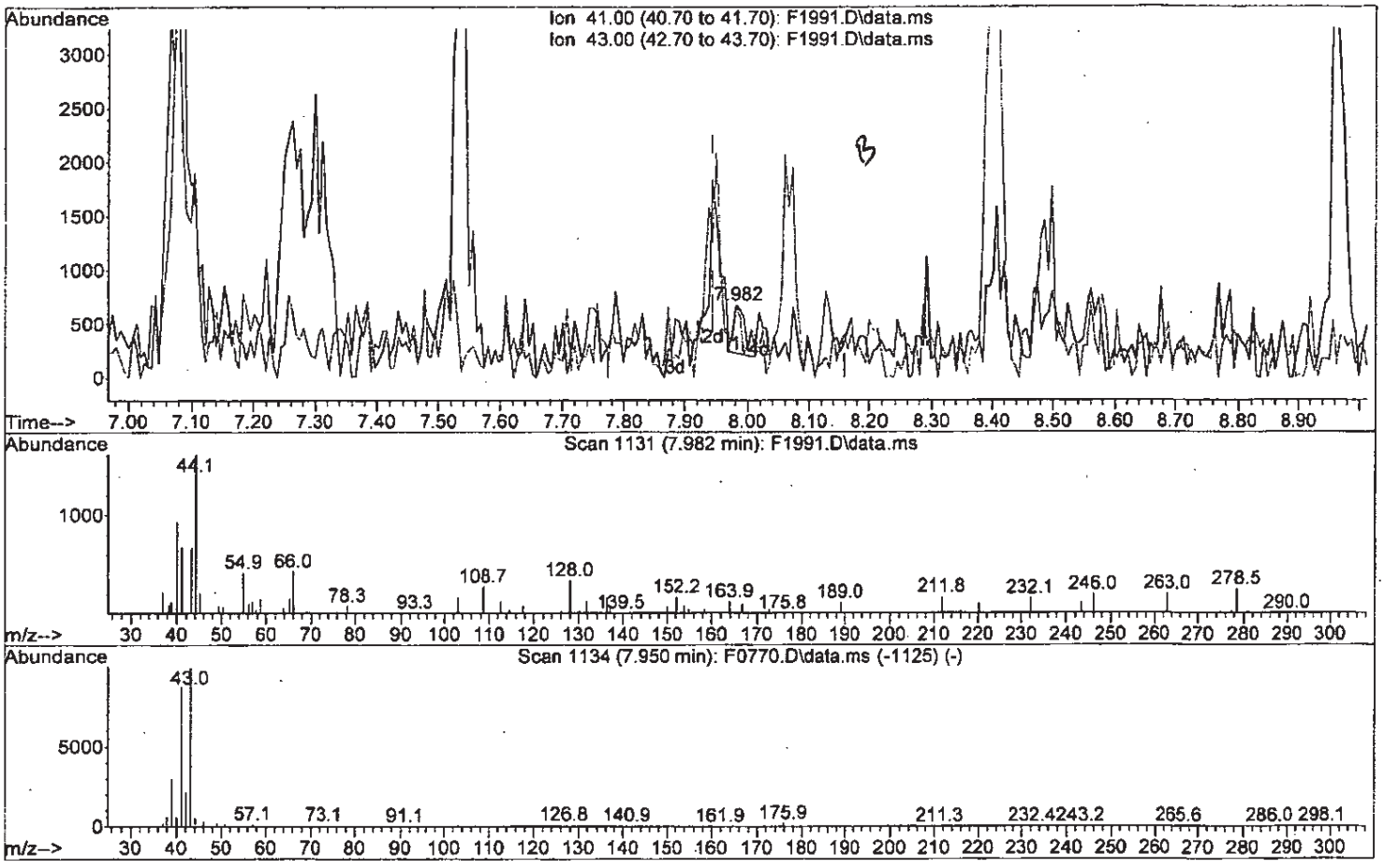
response 3911

Ion	Exp%	Act%
63.00	100	100
65.00	28.60	14.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(60) 2-Nitropropane

7.982min (+0.037) 0.18 ug/L

response 623

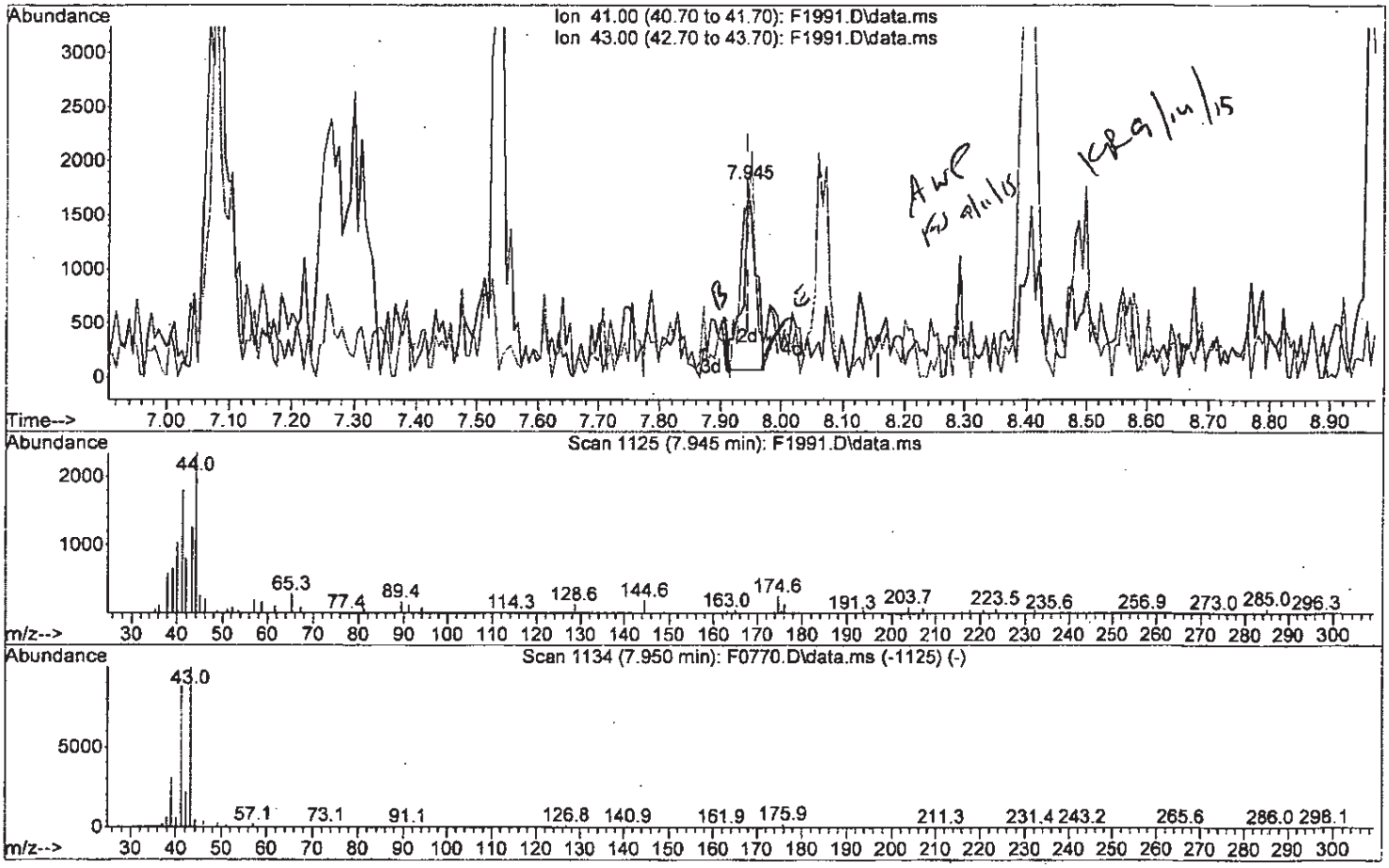
Ion	Exp%	Act%
41.00	100	100
43.00	113.90	98.52
0.00	0.00	0.00
0.00	0.00	0.00

00186

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(60) 2-Nitropropane

7.945min (+0.000) 0.78 ug/L m

response 2651

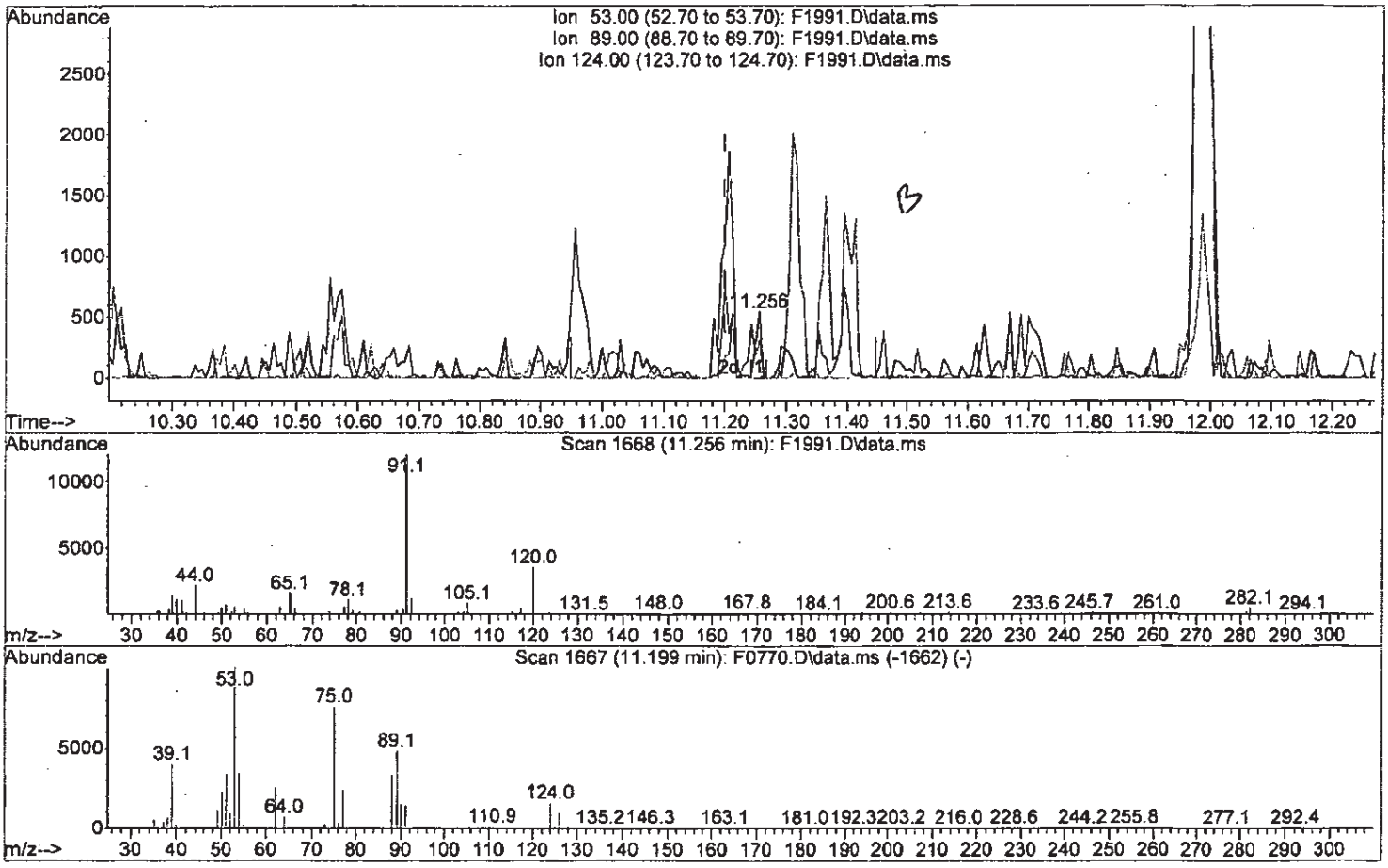
Ion	Exp%	Act%
41.00	100	100
43.00	113.90	69.75#
0.00	0.00	0.00
0.00	0.00	0.00

00187

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(89) trans-1,4-Dichloro-2-Butene

11.256min (+0.055) 0.08 ug/L

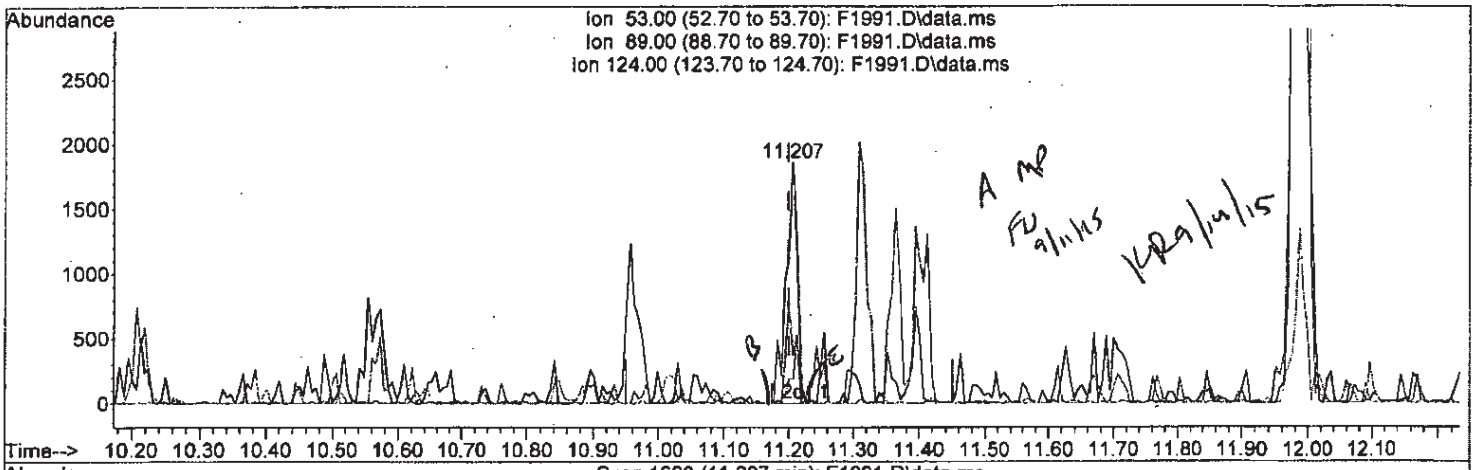
response 304

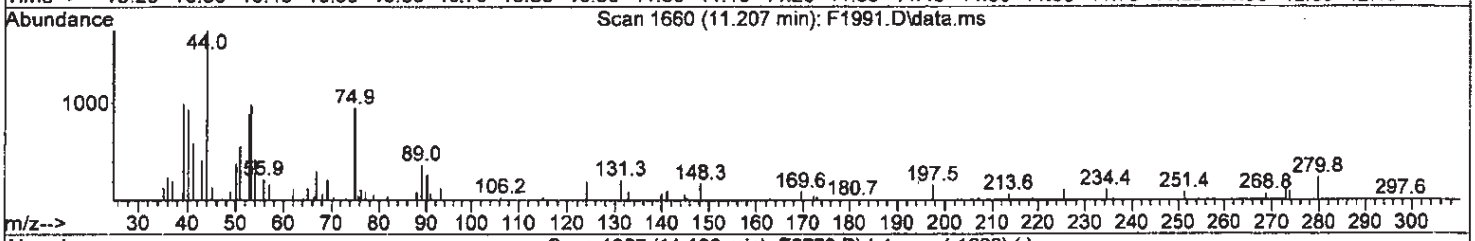
Ion	Exp%	Act%
53.00	100	100
89.00	48.00	56.83
124.00	15.80	0.00
0.00	0.00	0.00

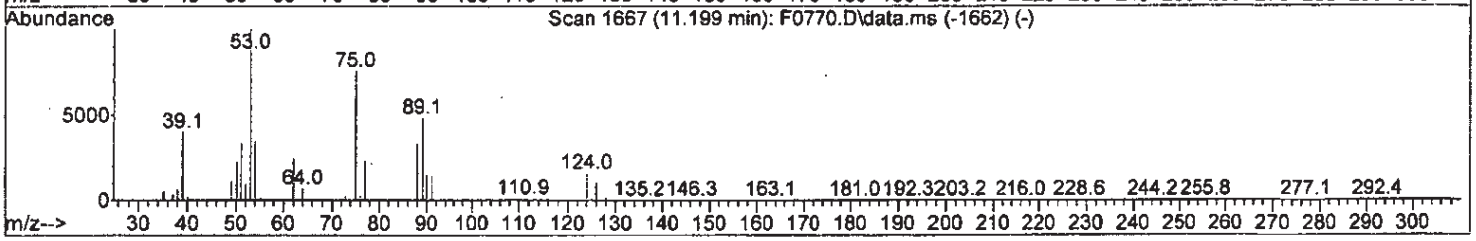
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(89) trans-1,4-Dichloro-2-Butene

11.207min (+0.006) 0.61 ug/L m

response 2209

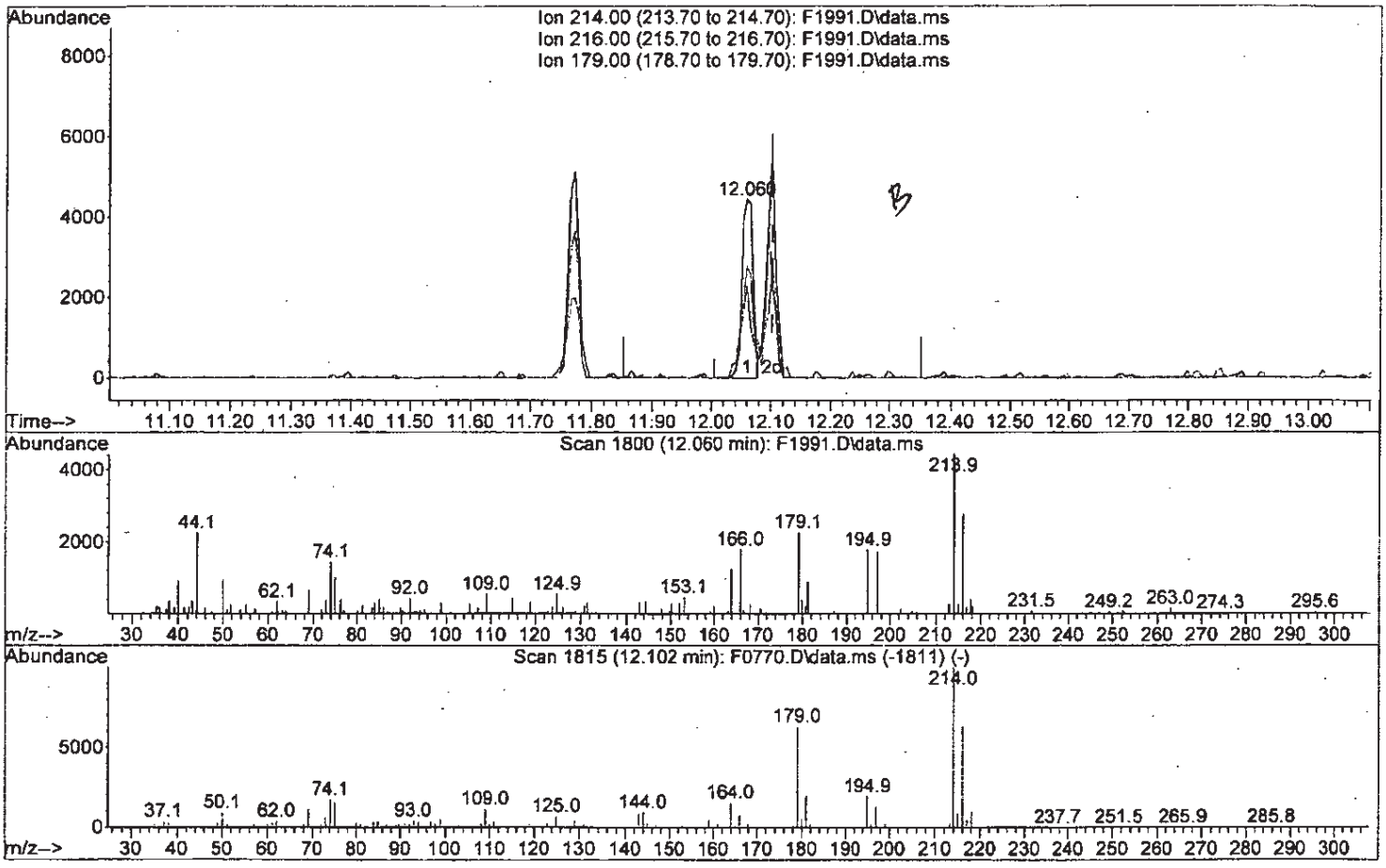
Ion	Exp%	Act%
53.00	100	100
89.00	48.00	37.76
124.00	15.80	19.44
0.00	0.00	0.00

00189

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(107) 2,5-Dichlorobenzotrifluoride

12.060min (-0.043) 0.66 ug/L

response 5702

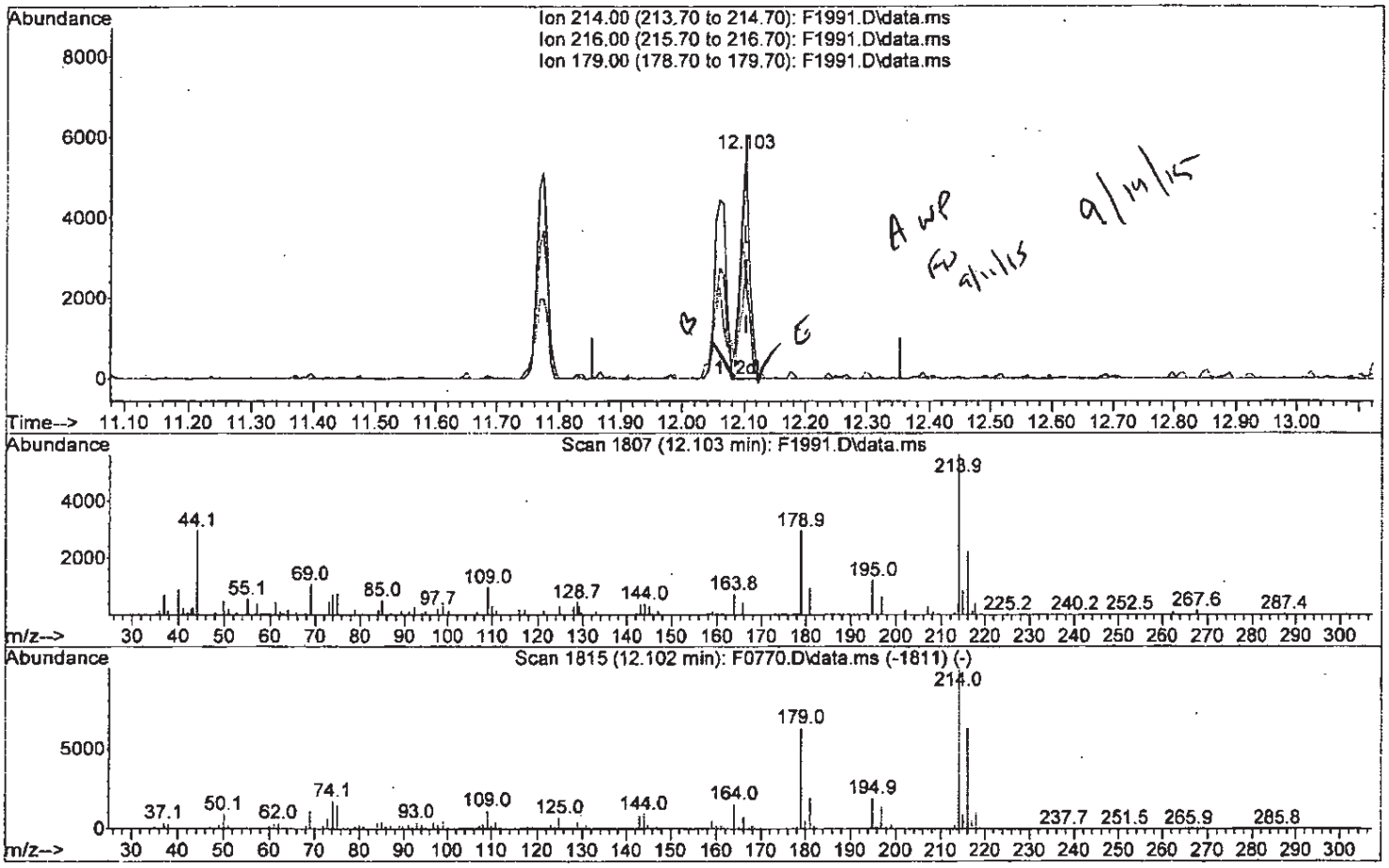
Ion	Exp%	Act%
214.00	100	100
216.00	62.80	62.47
179.00	63.10	51.10
0.00	0.00	0.00

00190

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(107) 2,5-Dichlorobenzotrifluoride

12.103min (+0.000) 0.67 ug/L m

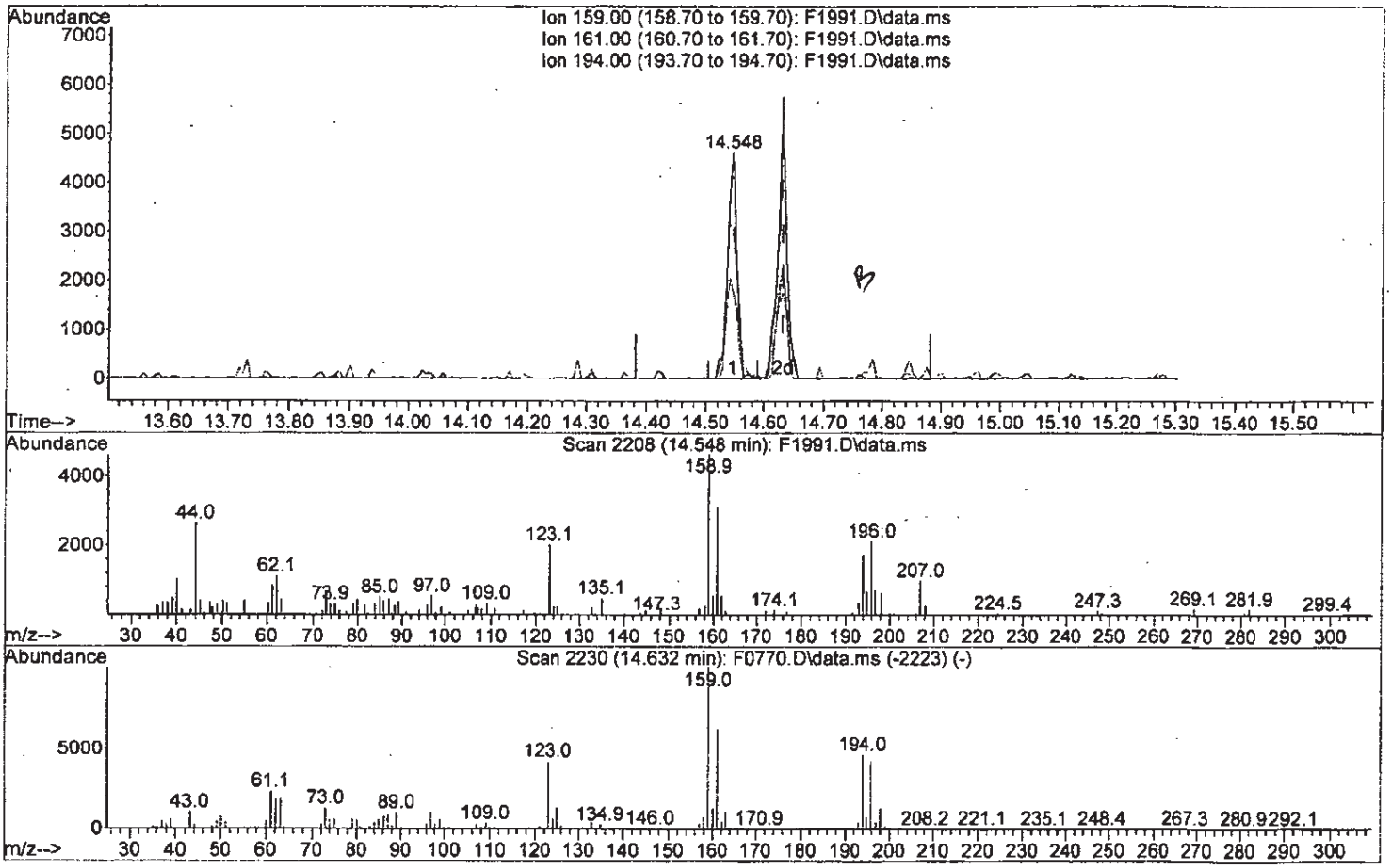
response 5772

Ion	Exp%	Act%
214.00	100	100
216.00	62.80	39.83#
179.00	63.10	52.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(119) 2,3,6-Trichlorotoluene

14.548min (-0.085) 0.62 ug/L

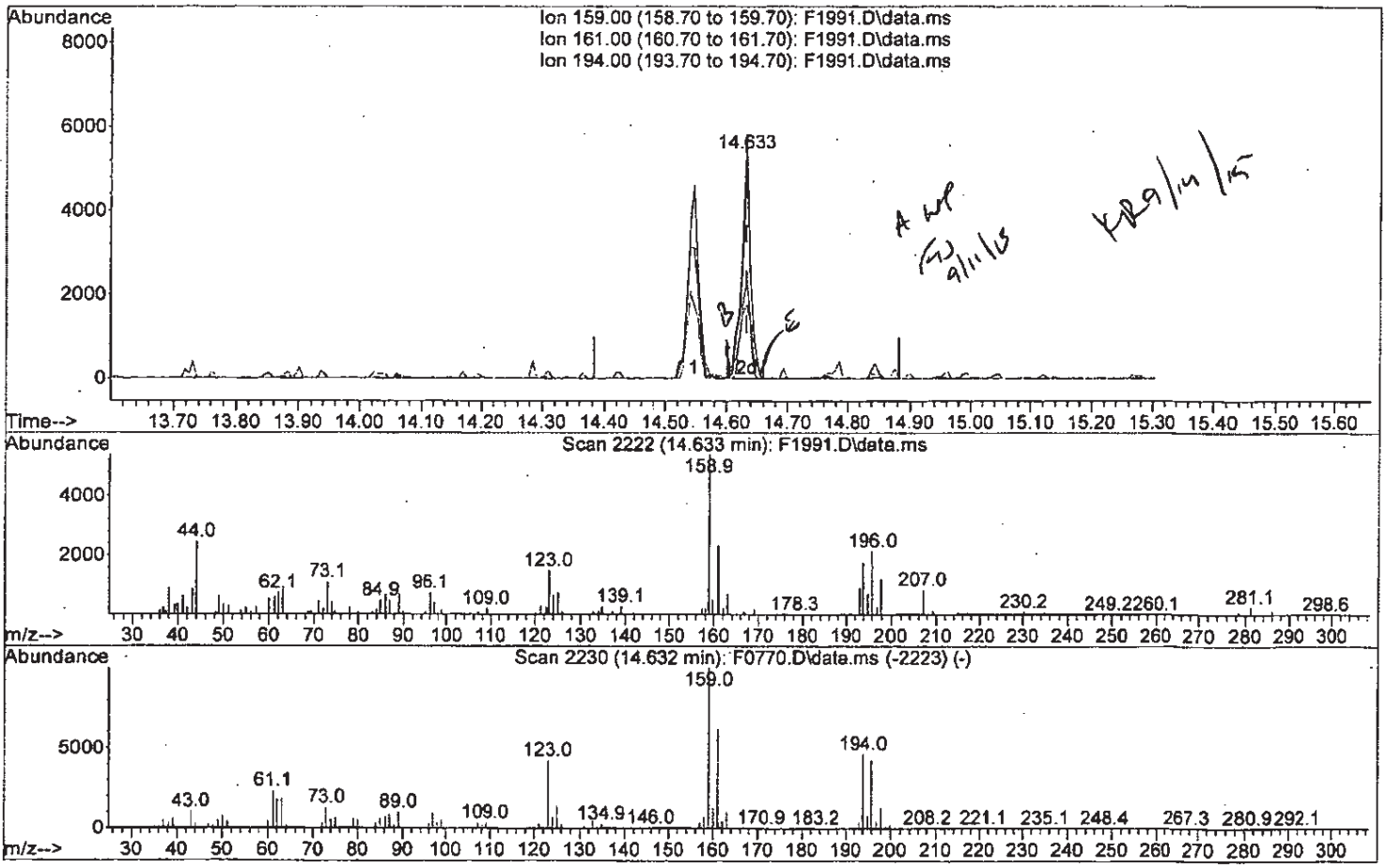
response 5286

Ion	Exp%	Act%
159.00	100	100
161.00	62.00	66.88
194.00	46.40	37.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(119) 2,3,6-Trichlorotoluene

14.633min (+0.000) 0.64 ug/L m

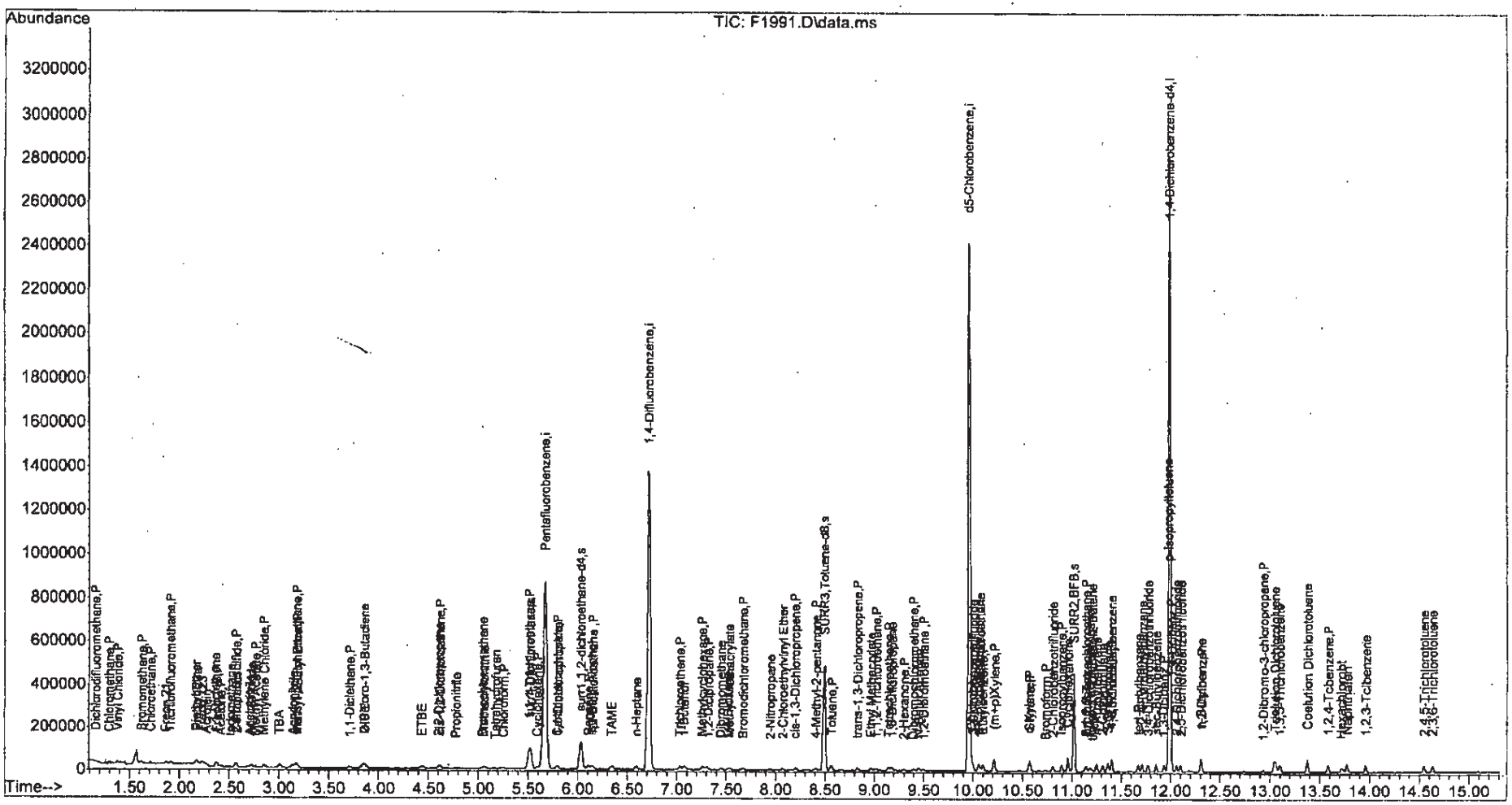
response 5415

Ion	Exp%	Act%
159.00	100	100
161.00	62.00	43.27
194.00	46.40	32.53
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:55:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 09:02:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FV 9/11/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	736249	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	1054557	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	914502	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	479625	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	71482	10.40	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 20.80%#				
46) surr1,1,2-dichloroetha...	6.031	65	100123	10.72	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 21.44%#				
64) SURR3,Toluene-d8	8.488	98	266106	10.85	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.70%#				
69) SURR2,BFB	11.018	95	104622	10.11	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 20.22%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	6086	0.97	ug/L		96
3) Chloromethane	1.294	50	10100	1.22	ug/L		85
4) Vinyl Chloride	1.380	62	7349	1.01	ug/L		94
5) Bromomethane	1.617	94	5352	1.30	ug/L		91
6) Chloroethane	1.703	64	4701	1.15	ug/L		100
7) Freon 21	1.867	67	13830	1.15	ug/L		94
8) Trichlorofluoromethane	1.916	101	11033	1.22	ug/L		98
9) Diethyl Ether	2.166	59	7279	1.01	ug/L	#	79
10) Freon 123a	2.172	67	9331m	1.19	ug/L		
11) Freon 123	2.239	83	9419	1.09	ug/L		92
12) Acrolein	2.270	56	12742m	5.34	ug/L		
13) 1,1-Diclethene	2.373	96	6686	1.12	ug/L	#	62
14) Freon 113	2.373	101	6409	0.99	ug/L		84
15) Acetone	2.416	43	10232	1.67	ug/L		82
16) 2-Propanol	2.568	45	25381	18.33	ug/L		92
17) Iodomethane	2.501	142	3358	0.51	ug/L		75
18) Carbon Disulfide	2.568	76	17750	1.02	ug/L		82
19) Acetonitrile	2.684	40	6031	5.36	ug/L	#	58
20) Allyl Chloride	2.727	76	4594	1.31	ug/L	#	73
21) Methyl Acetate	2.757	43	9618	0.85	ug/L		80
22) Methylene Chloride	2.855	84	7938	1.09	ug/L	#	62
23) TBA	3.007	59	34790	18.16	ug/L		83
24) Acrylonitrile	3.129	53	24512	4.77	ug/L		97
25) Methyl-t-Butyl Ether	3.184	73	23835	0.95	ug/L		86
26) trans-1,2-Dichloroethene	3.166	96	7613	1.19	ug/L	#	70
27) 1,1-Diclethane	3.702	63	14938	1.16	ug/L		99
28) Vinyl Acetate	3.812	86	1087m	0.81	ug/L		
29) DIPE	3.855	45	34469	1.11	ug/L		92
30) 2-Chloro-1,3-Butadiene	3.836	53	14650	1.04	ug/L		99
31) ETBE	4.434	59	27607	1.04	ug/L		79
32) 2,2-Dichloropropane	4.623	77	11094m	1.11	ug/L		
33) cis-1,2-Dichloroethene	4.623	96	7807m	1.06	ug/L		
34) 2-Butanone	4.696	43	7575	0.91	ug/L		84
35) Propionitrile	4.794	54	10531	5.04	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 09:02:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	5.050	130	4871	1.03 ug/L #	82
37) Methacrylonitrile	5.068	67	4752	1.02 ug/L #	68
38) Tetrahydrofuran	5.159	42	6243	1.23 ug/L	82
39) Chloroform	5.245	83	12152	0.97 ug/L	89
40) 1,1,1-Trichloroethane	5.519	97	10550	0.99 ug/L	89
42) Cyclohexane	5.598	41	14700	1.64 ug/L	100
44) Carbontetrachloride	5.781	121	2299	0.89 ug/L	78
45) 1,1-Dichloropropene	5.793	75	10517	1.16 ug/L	82
47) Benzene	6.110	78	28122	1.07 ug/L	88
48) 1,2-Dichloroethane	6.153	62	12386	1.02 ug/L	99
49) Iso-Butyl Alcohol	6.159	43	17009	17.84 ug/L	99
50) TAME	6.342	73	23518	1.06 ug/L	89
51) n-Heptane	6.592	43	14991	1.25 ug/L	82
52) 1-Butanol	7.074	56	19164	37.35 ug/L	86
53) Trichloroethene	7.031	130	9409	1.15 ug/L	91
54) Methylcyclohexane	7.263	55	12981	1.26 ug/L #	79
55) 1,2-Diclpropane	7.311	63	8673	1.09 ug/L	90
56) Dibromomethane	7.439	93	5182	1.02 ug/L	84
57) 1,4-Dioxane	7.519	88	2649	14.39 ug/L	93
58) Methyl Methacrylate	7.531	69	6090	0.89 ug/L	93
59) Bromodichloromethane	7.677	83	9493	0.97 ug/L	90
60) 2-Nitropropane	7.951	41	5802m	1.75 ug/L	
61) 2-Chloroethylvinyl Ether	8.067	63	5904	0.98 ug/L	65
62) cis-1,3-Dichloropropene	8.201	75	10595	0.95 ug/L	89
63) 4-Methyl-2-pentanone	8.403	43	14013	0.97 ug/L	97
65) Toluene	8.561	91	31788	1.13 ug/L	86
66) trans-1,3-Dichloropropene	8.829	75	9654	0.90 ug/L	81
67) Ethyl Methacrylate	8.970	69	11030	0.94 ug/L	98
68) 1,1,2-Trichloroethane	9.012	97	7097	1.02 ug/L	89
71) Tetrachloroethene	9.146	164	7220	1.29 ug/L #	68
72) 2-Hexanone	9.299	43	10076	0.92 ug/L	87
73) 1,3-Dichloropropane	9.177	76	12851	1.08 ug/L	97
74) Dibromochloromethane	9.408	129	5862	0.81 ug/L	96
75) N-Butyl Acetate	9.451	43	18454	0.98 ug/L	87
76) 1,2-Dibromoethane	9.500	107	7762	1.04 ug/L #	79
77) 3-Chlorobenzotrifluoride	10.000	180	12795	1.17 ug/L #	94
78) Chlorobenzene	9.982	112	21047	1.14 ug/L	97
79) 4-Chlorobenzotrifluoride	10.055	180	10165	1.06 ug/L	83
80) 1,1,1,2-Tetrachloroethane	10.067	131	5216	0.78 ug/L	92
81) Ethylbenzene	10.103	106	10200	1.06 ug/L #	80
82) (m+p)Xylene	10.213	106	23116	2.00 ug/L	92
83) o-Xylene	10.567	106	13800	1.19 ug/L #	81
84) Styrene	10.579	104	20498	1.03 ug/L	91
85) Bromoform	10.725	173	4300	0.80 ug/L	98
86) 2-Chlorobenzotrifluoride	10.805	180	12519	1.19 ug/L #	78
87) Isopropylbenzene	10.896	105	31689	1.10 ug/L	97
88) Cyclohexanone	10.957	55	40833	19.20 ug/L	98
89) trans-1,4-Dichloro-2-B...	11.195	53	2709	0.77 ug/L	93
91) 1,1,2,2-Tetrachloroethane	11.152	83	6473	0.80 ug/L	95
92) Bromobenzene	11.140	156	8635	1.07 ug/L	97
93) 1,2,3-Trichloropropane	11.183	110	3535	1.11 ug/L #	87

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 09:02:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

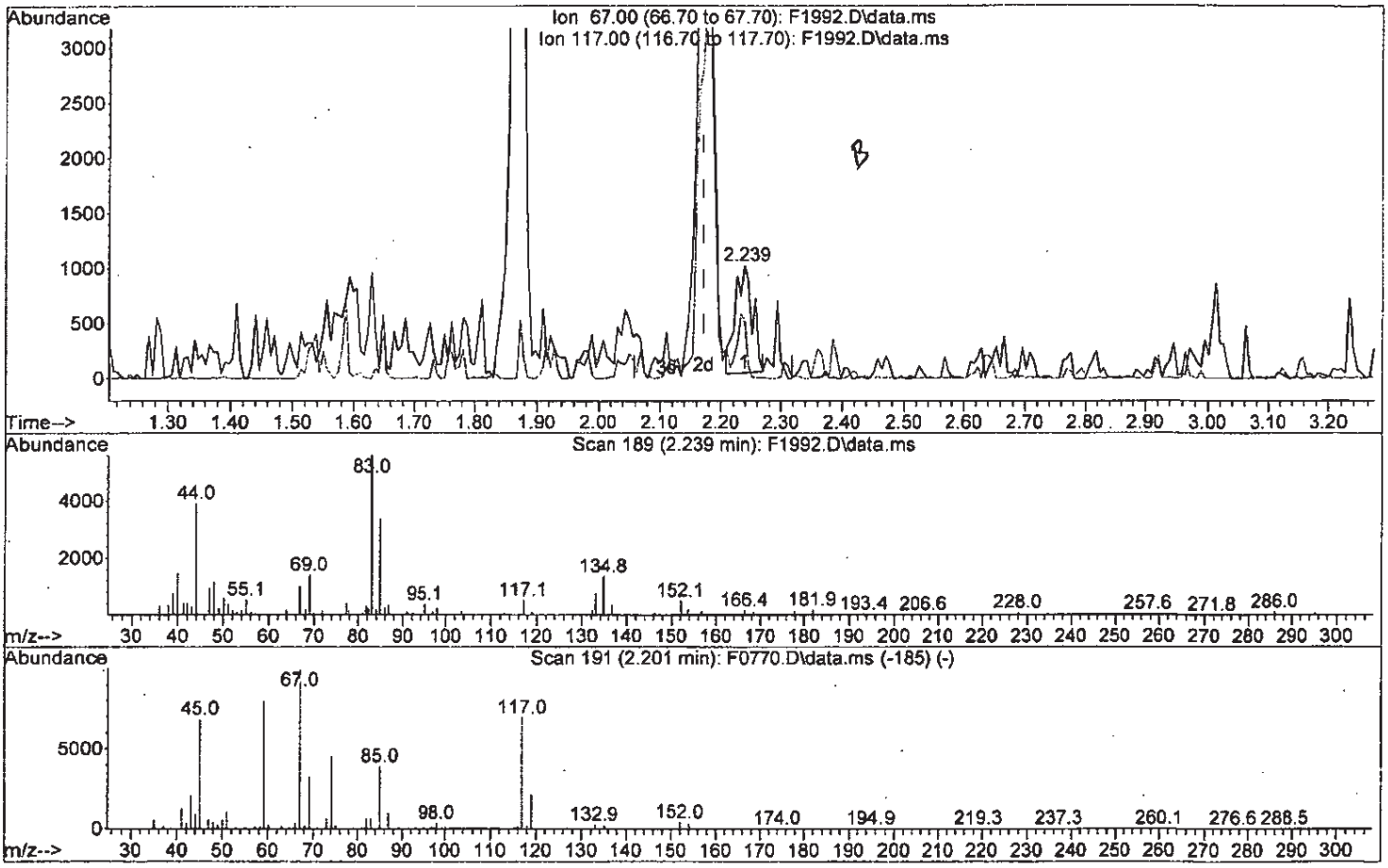
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	n-Propylbenzene	11.250	91	39596	1.22	ug/L		93
95)	2-Chlorotoluene	11.311	91	21603	1.04	ug/L		90
96)	3-Chlorotoluene	11.365	91	24439	1.14	ug/L		99
97)	4-Chlorotoluene	11.408	91	29528	1.22	ug/L		91
98)	1,3,5-Trimethylbenzene	11.402	105	25805	1.15	ug/L		89
99)	tert-Butylbenzene	11.670	119	22911	1.13	ug/L		97
100)	1,2,4-Trimethylbenzene	11.713	105	29389	1.26	ug/L		99
101)	3,4-Dichlorobenzotrifl...	11.774	214	9666	1.14	ug/L		97
102)	sec-Butylbenzene	11.853	105	32892	1.15	ug/L		95
103)	p-Isopropyltoluene	11.969	119	28917	1.21	ug/L		90
104)	1,3-Dclbenz	11.938	146	16214	1.09	ug/L		91
105)	1,4-Dclbenz	12.006	146	19114	1.22	ug/L		99
106)	2,4-Dichlorobenzotrifl...	12.060	214	7996	1.04	ug/L		87
107)	2,5-Dichlorobenzotrifl...	12.060	214	7996	0.95	ug/L		92
108)	n-Butylbenzene	12.304	91	26527	1.09	ug/L		82
109)	1,2-Dclbenz	12.310	146	16188	1.08	ug/L		90
110)	1,2-Dibromo-3-chloropr...	12.926	157	2489	1.03	ug/L	#	78
111)	Trielution Dichlorotol...	13.048	125	46634	3.50	ug/L		87
112)	1,3,5-Trichlorobenzene	13.097	180	14085	1.19	ug/L	#	73
113)	Coelution Dichlorotoluene	13.377	125	33741	2.31	ug/L		98
114)	1,2,4-Tcbenzene	13.585	180	13944	1.18	ug/L		91
115)	Hexachlorobt	13.719	225	4721	0.98	ug/L		90
116)	Naphthalen	13.774	128	35529	1.05	ug/L		100
117)	1,2,3-Tclbenzene	13.962	180	13551	1.14	ug/L		84
118)	2,4,5-Trichlorotoluene	14.548	159	10240	1.09	ug/L		93
119)	2,3,6-Trichlorotoluene	14.633	159	8367	1.01	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(10) Freon 123a

2.239min (+0.067) 0.24 ug/L

response 1909

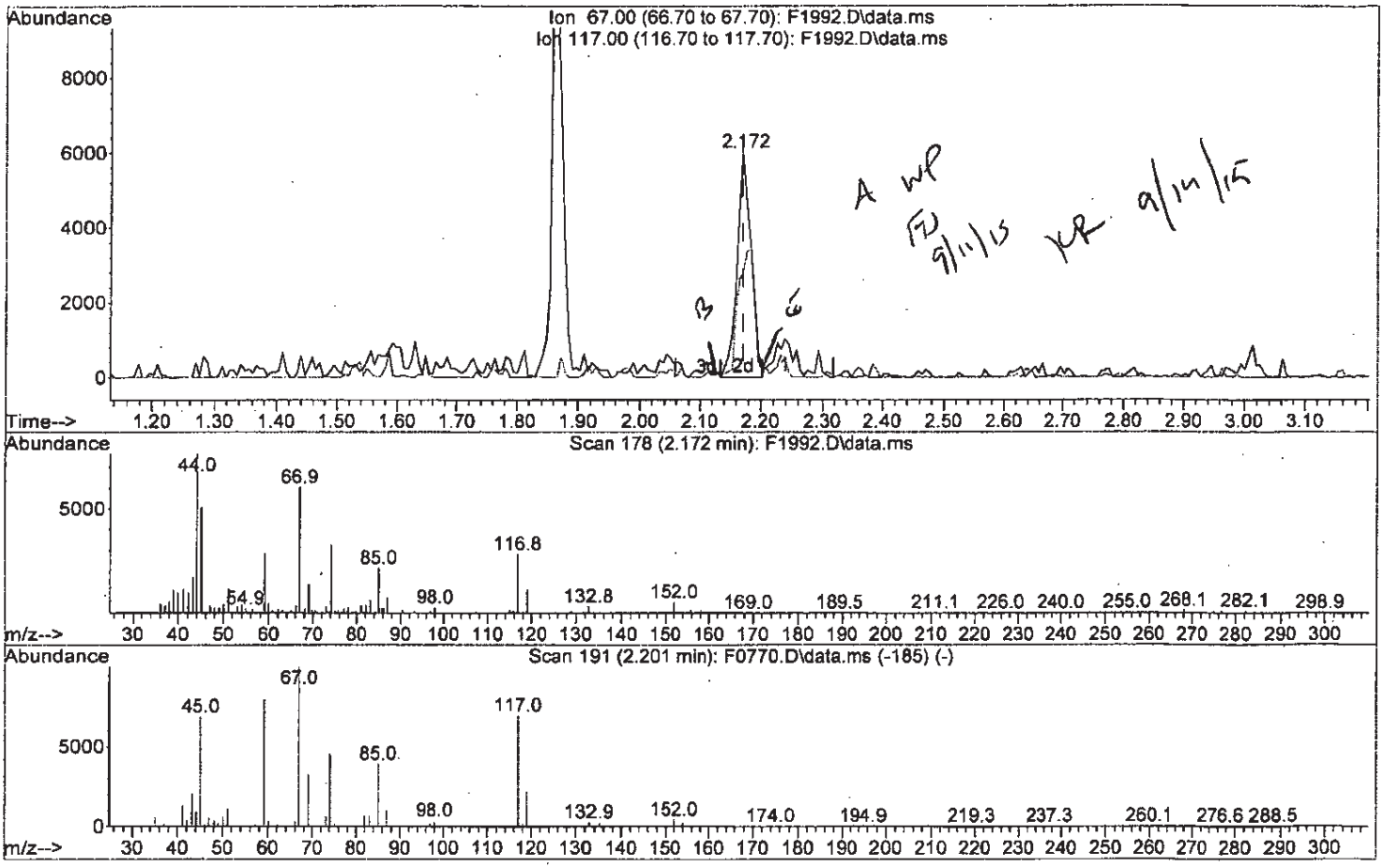
Ion	Exp%	Act%
67.00	100	100
117.00	69.30	50.05
0.00	0.00	0.00
0.00	0.00	0.00

00198

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(10) Freon 123a

2.172min (+0.000) 1.19 ug/L m

response 9331

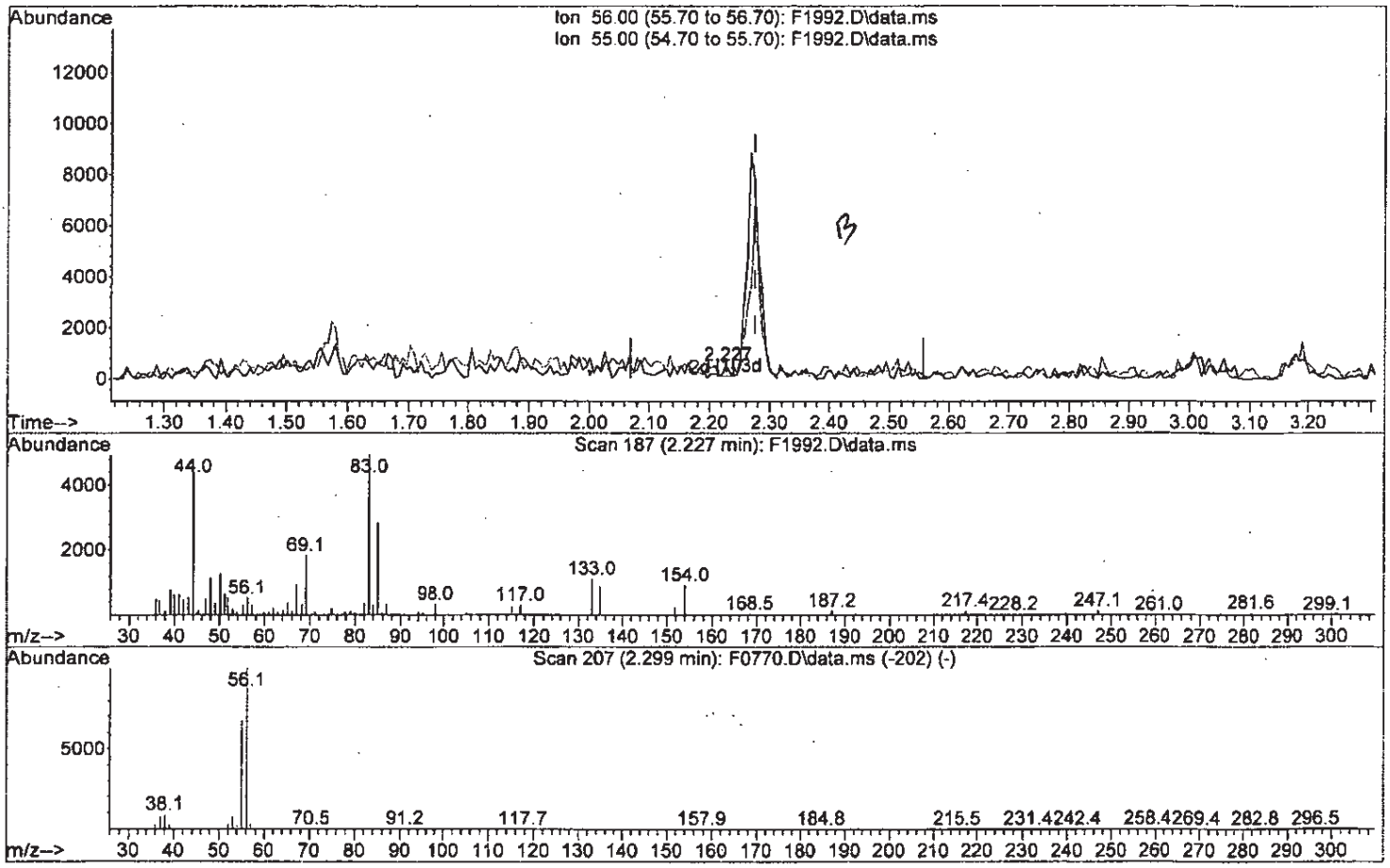
Ion	Exp%	Act%
67.00	100	100
117.00	69.30	46.66#
0.00	0.00	0.00
0.00	0.00	0.00

00199

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(12) Acrolein

2.227min (-0.049) 0.10 ug/L

response 236

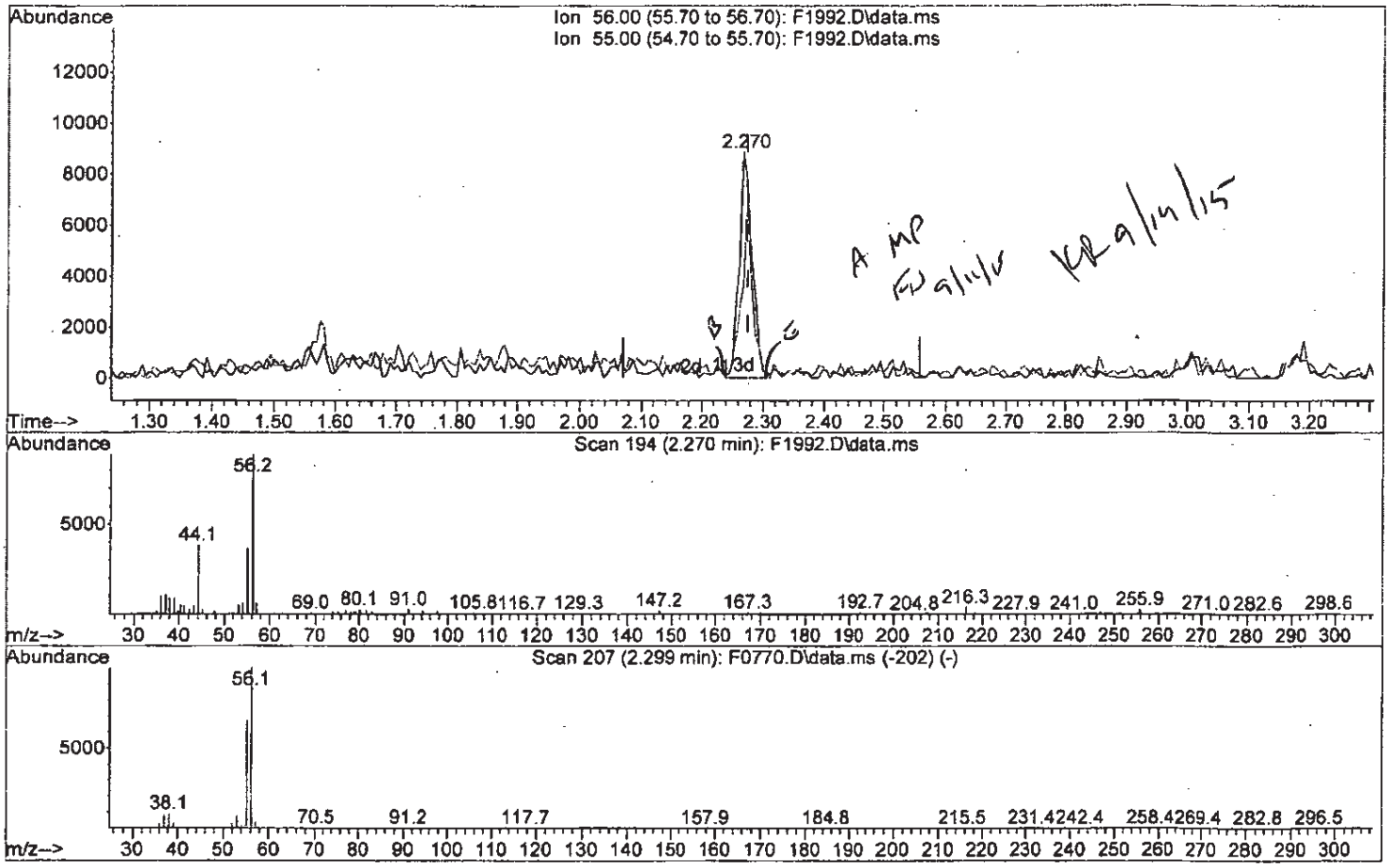
Ion	Exp%	Act%
56.00	100	100
55.00	67.90	56.19
0.00	0.00	0.00
0.00	0.00	0.00

00200

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(12) Acrolein

2.270min (-0.006) 5.34 ug/L m

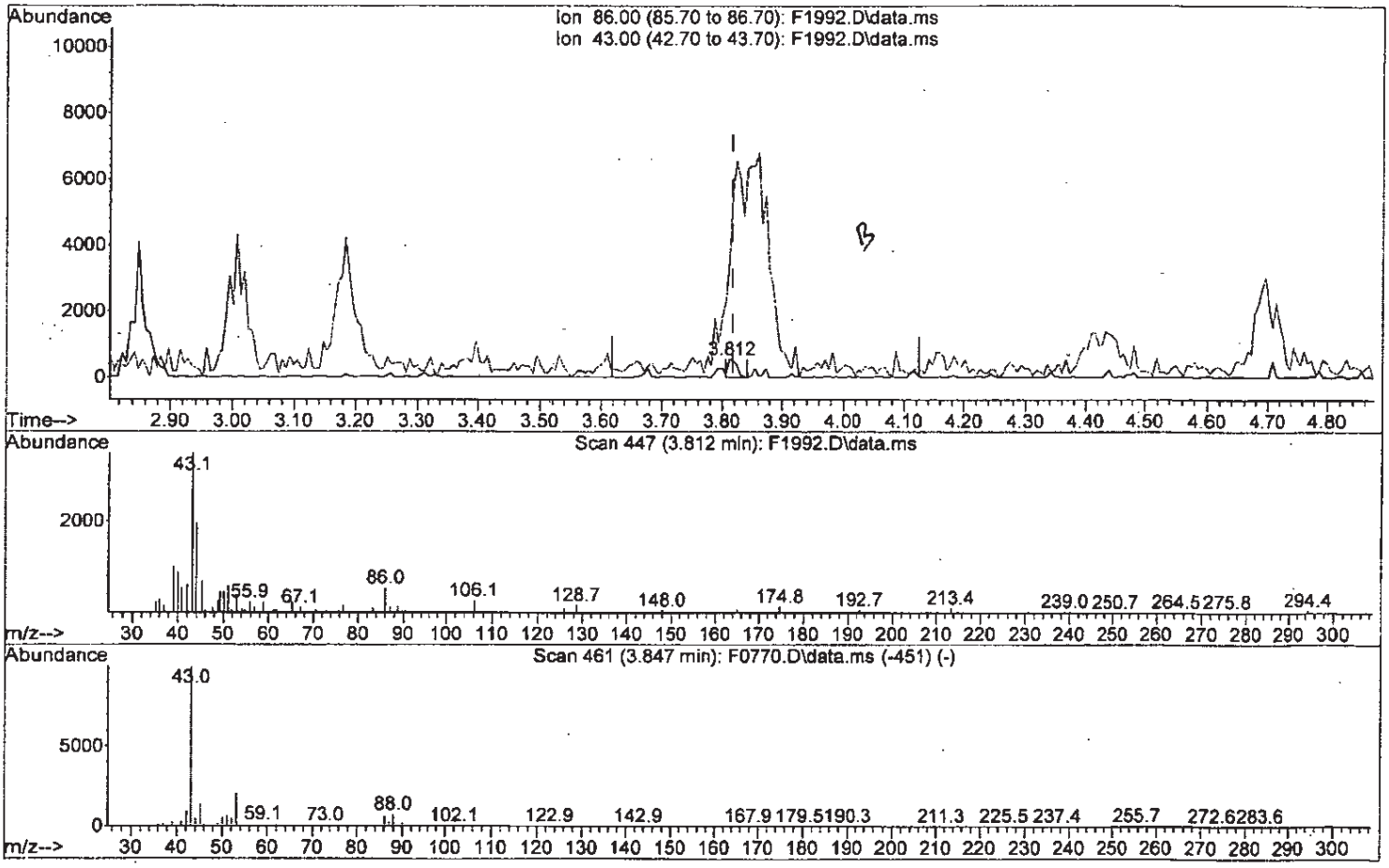
response 12742

Ion	Exp%	Act%
56.00	100	100
55.00	67.90	41.18#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(28) Vinyl Acetate

3.812min (-0.006) 0.42 ug/L

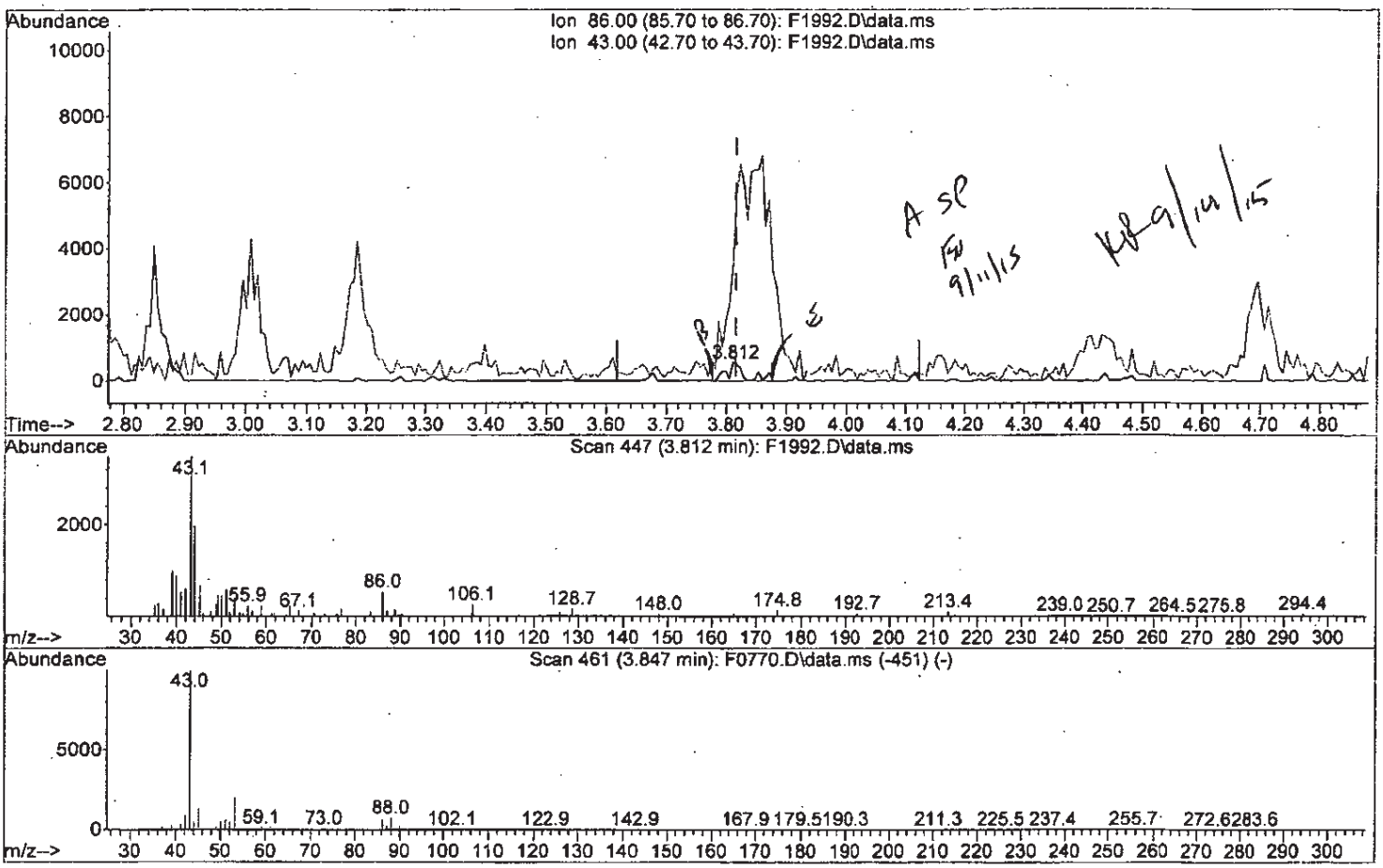
response 558

Ion	Exp%	Act%
86.00	100	100
43.00	1655.60	644.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(28) Vinyl Acetate

3.812min (-0.006) 0.81 ug/L m

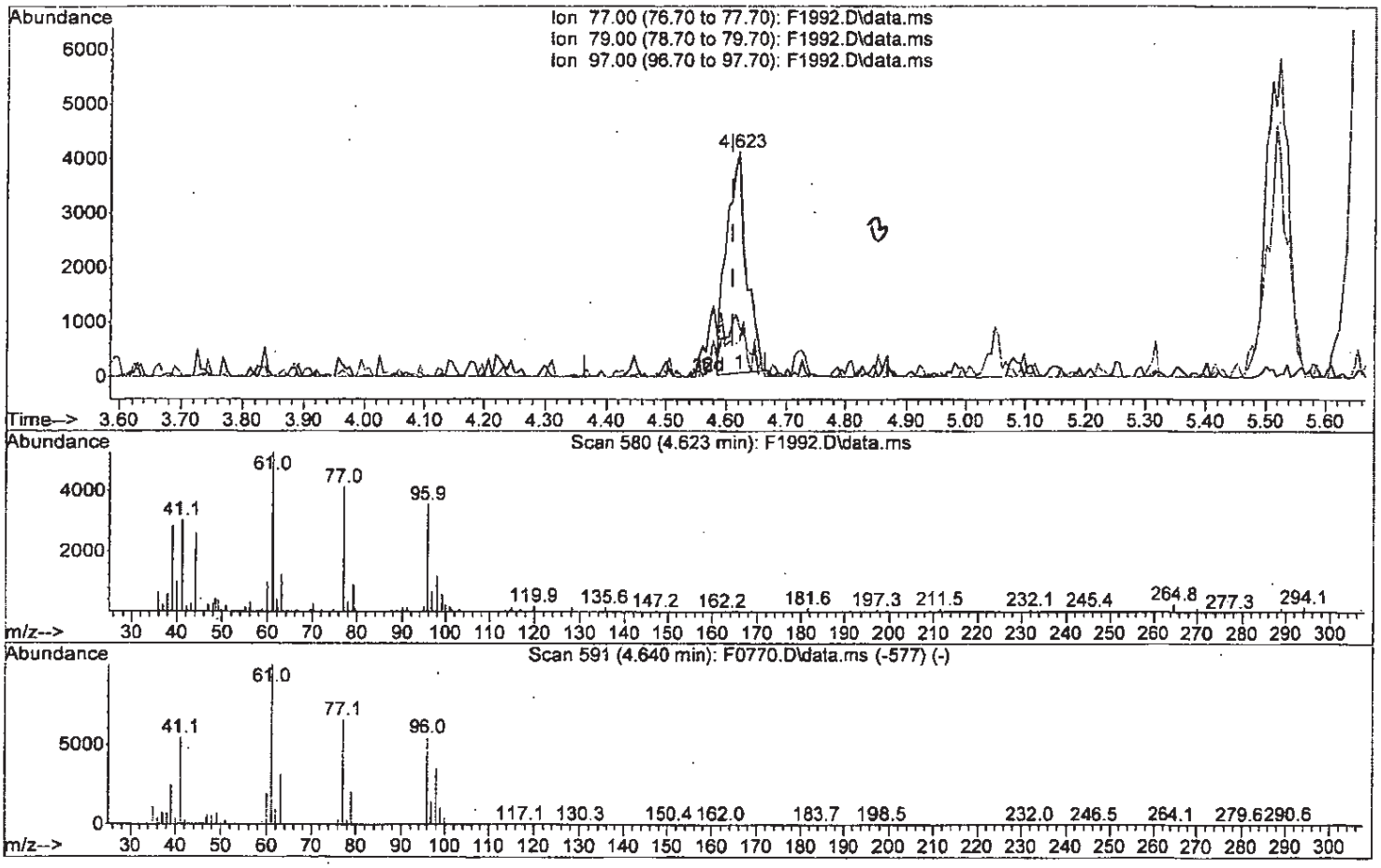
response 1087

Ion	Exp%	Act%
86.00	100	100
43.00	1655.60	644.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(32) 2,2-Dichloropropane

4.623min (+0.012) 0.91 ug/L

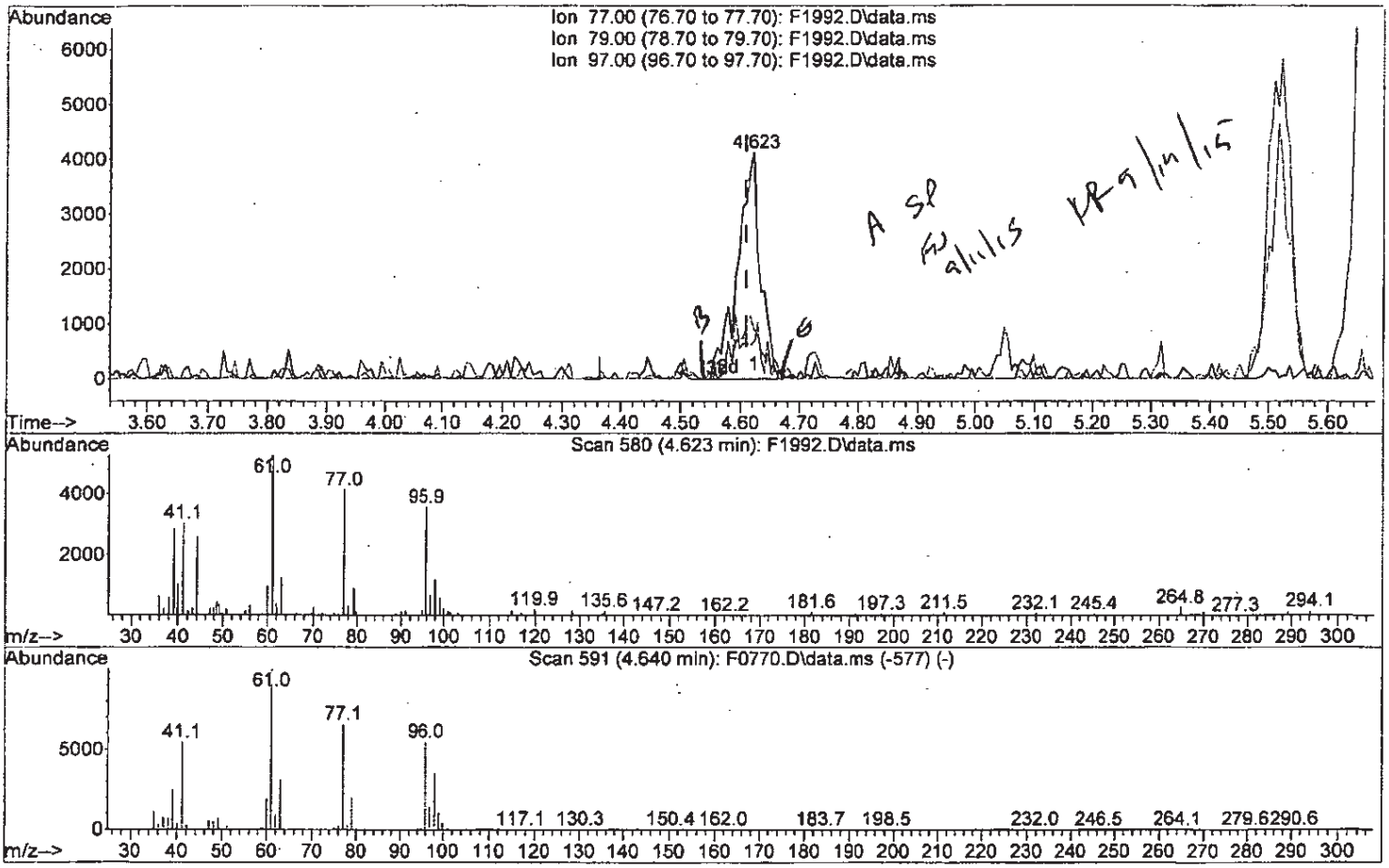
response 9085

Ion	Exp%	Act%
77.00	100	100
79.00	30.40	24.37
97.00	22.40	15.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(32) 2,2-Dichloropropane

4.623min (+0.012) 1.11 ug/L m

response 11094

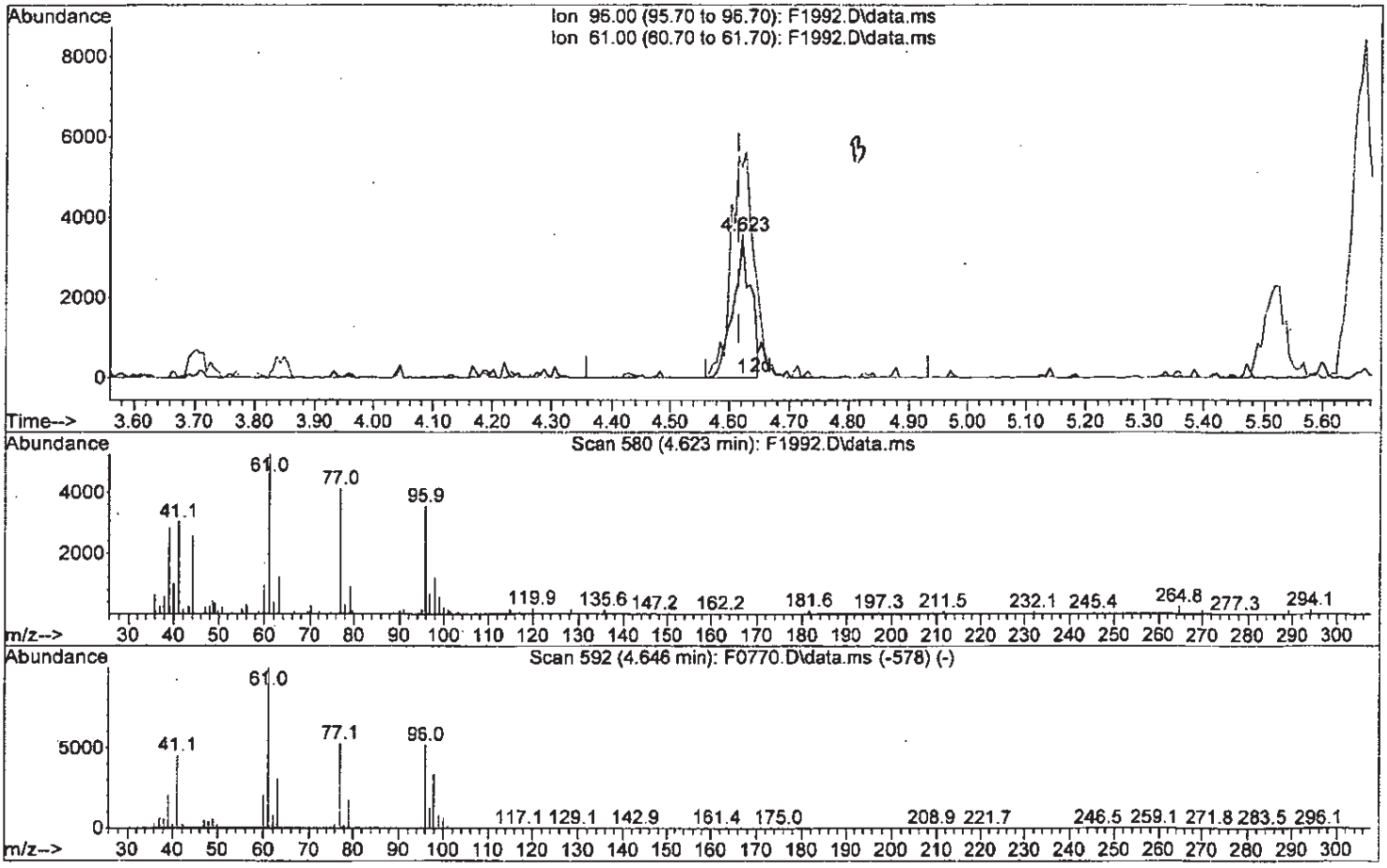
Ion	Exp%	Act%
77.00	100	100
79.00	30.40	21.66
97.00	22.40	15.97
0.00	0.00	0.00

00205

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.623min (+0.006) 0.96 ug/L

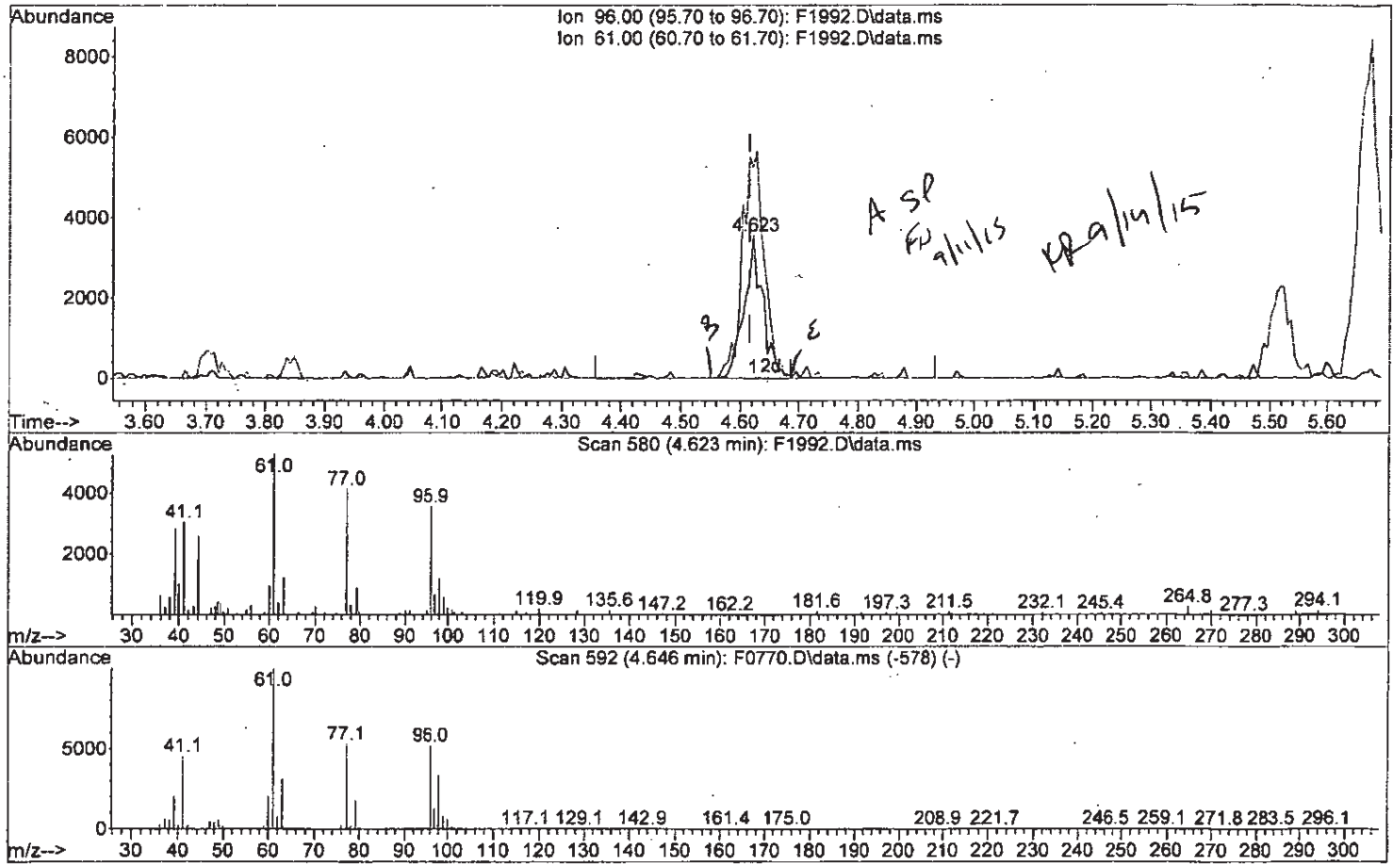
response 7046

Ion	Exp%	Act%
96.00	100	100
61.00	193.00	148.02#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.623min (+0.006) 1.06 ug/L m

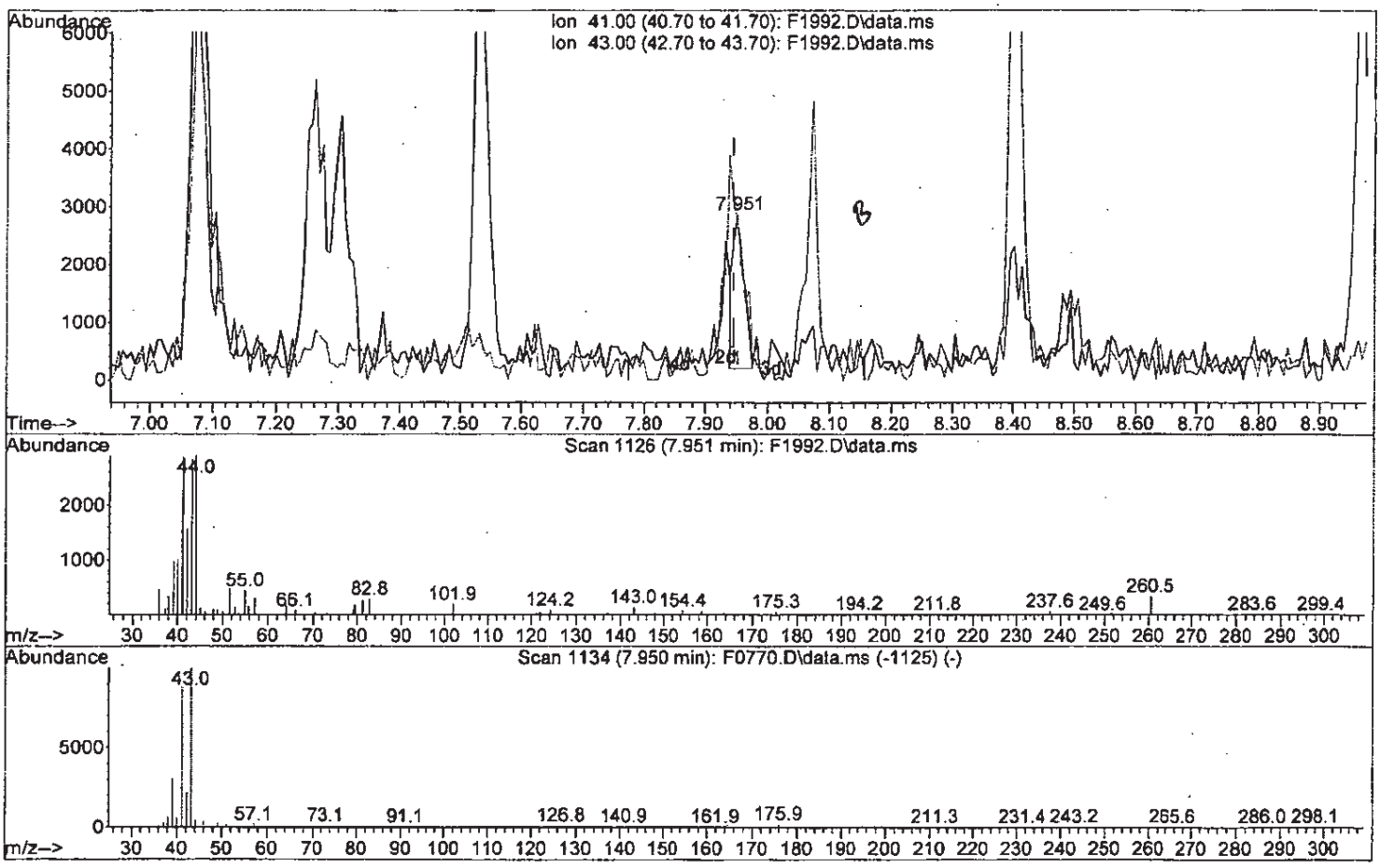
response 7807

Ion	Exp%	Act%
96.00	100	100
61.00	193.00	148.02#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(60) 2-Nitropropane

7.951min (+0.006) 0.96 ug/L

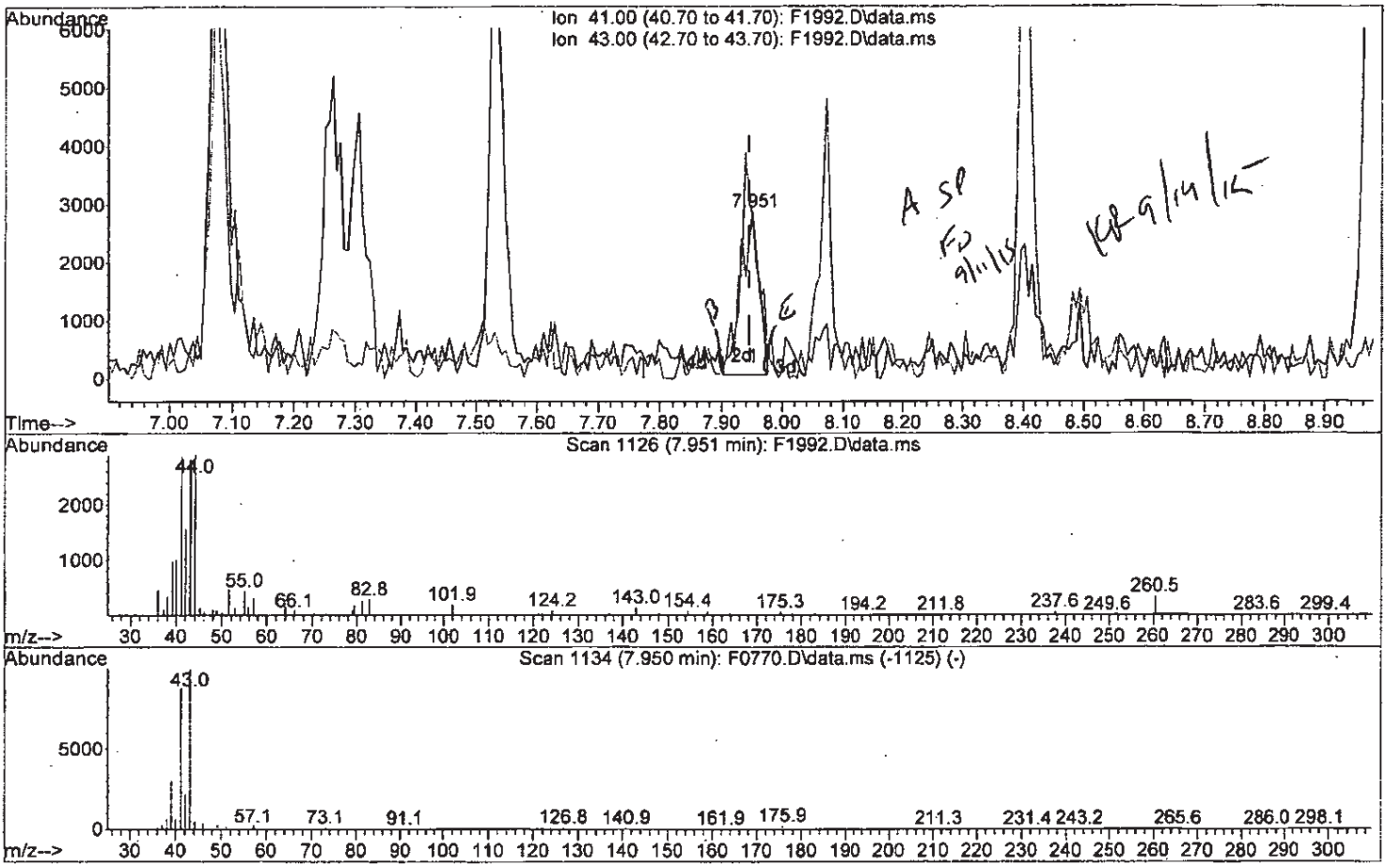
response 3183

Ion	Exp%	Act%
41.00	100	100
43.00	113.90	98.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(60) 2-Nitropropane

7.951min (+0.006) 1.75 ug/L m

response 5802

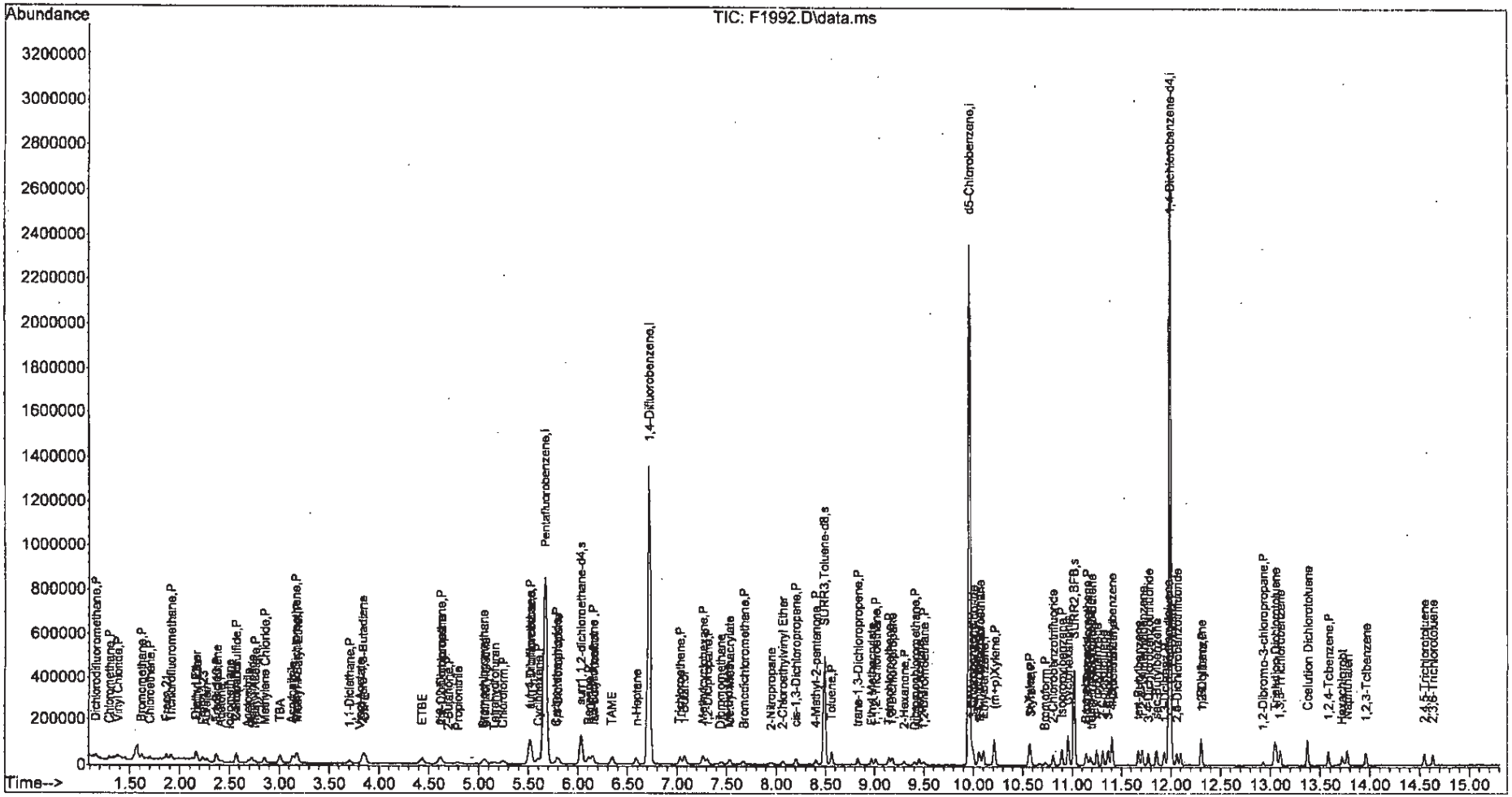
Ion	Exp%	Act%
41.00	100	100
43.00	113.90	98.22
0.00	0.00	0.00
0.00	0.00	0.00

00209

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 09:02:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 09:59:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FW 9/11/15
KB 9/14/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	792996	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	1129647	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	982948	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	528125	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	70908	9.63	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 19.26%#				
46) surr1,1,2-dichloroetha...	6.031	65	105866	10.58	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 21.16%#				
64) SURR3,Toluene-d8	8.488	98	268749	10.23	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 20.46%#				
69) SURR2,BFB	11.018	95	106689	9.63	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 19.26%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	12110m	1.79	ug/L		
3) Chloromethane	1.294	50	18230	2.04	ug/L		93
4) Vinyl Chloride	1.373	62	14896	1.90	ug/L		90
5) Bromomethane	1.617	94	11137	2.52	ug/L		91
6) Chloroethane	1.703	64	10320	2.34	ug/L		79
7) Freon 21	1.867	67	27821	2.15	ug/L		92
8) Trichlorofluoromethane	1.910	101	20778	2.13	ug/L		87
9) Diethyl Ether	2.166	59	15411	1.98	ug/L		98
10) Freon 123a	2.172	67	21213	2.51	ug/L		93
11) Freon 123	2.233	83	19911	2.13	ug/L		93
12) Acrolein	2.276	56	26120	10.17	ug/L		89
13) 1,1-Diclethene	2.367	96	12951	2.02	ug/L		89
14) Freon 113	2.373	101	15013	2.16	ug/L		89
15) Acetone	2.416	43	16780	2.55	ug/L		90
16) 2-Propanol	2.574	45	55420	37.16	ug/L		81
17) Iodomethane	2.501	142	7312	1.03	ug/L	#	53
18) Carbon Disulfide	2.562	76	42093	2.25	ug/L		94
19) Acetonitrile	2.690	40	19002	15.67	ug/L	#	78
20) Allyl Chloride	2.721	76	8550	2.26	ug/L	#	68
21) Methyl Acetate	2.757	43	25759	2.11	ug/L		98
22) Methylene Chloride	2.855	84	18595	2.37	ug/L	#	72
23) TBA	3.013	59	75024	36.37	ug/L		85
24) Acrylonitrile	3.129	53	50453	9.12	ug/L		95
25) Methyl-t-Butyl Ether	3.178	73	54769	2.03	ug/L		92
26) trans-1,2-Dichloroethene	3.172	96	14236	2.07	ug/L		92
27) 1,1-Diclethane	3.714	63	32399	2.33	ug/L		86
28) Vinyl Acetate	3.818	86	3954m	2.74	ug/L		
29) DIPE	3.855	45	70980	2.12	ug/L		87
30) 2-Chloro-1,3-Butadiene	3.836	53	33671	2.23	ug/L		98
31) ETBE	4.434	59	57652	2.01	ug/L		94
32) 2,2-Dichloropropane	4.604	77	22959	2.13	ug/L		84
33) cis-1,2-Dichloroethene	4.617	96	15830	2.00	ug/L		88
34) 2-Butanone	4.702	43	16791	1.88	ug/L		84
35) Propionitrile	4.775	54	20464	9.08	ug/L		82

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 09:59:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) Bromochloromethane	5.050	130	10798m	2.12 ug/L		
37) Methacrylonitrile	5.068	67	9592	1.92 ug/L		95
38) Tetrahydrofuran	5.159	42	15045	2.75 ug/L		97
39) Chloroform	5.239	83	28020m	2.08 ug/L		
40) 1,1,1-Trichloroethane	5.525	97	23478	2.05 ug/L		95
42) Cyclohexane	5.592	41	21610	2.24 ug/L		92
44) Carbontetrachloride	5.781	121	6145	2.21 ug/L	#	68
45) 1,1-Dichloropropene	5.799	75	20900	2.16 ug/L		88
47) Benzene	6.104	78	62076	2.20 ug/L		76
48) 1,2-Dichloroethane	6.147	62	27569	2.12 ug/L		92
49) Iso-Butyl Alcohol	6.147	43	40590	39.74 ug/L		92
50) TAME	6.342	73	51560	2.17 ug/L		90
51) n-Heptane	6.592	43	28742	2.25 ug/L		97
52) 1-Butanol	7.080	56	46219	84.08 ug/L		99
53) Trichloroethene	7.031	130	18323	2.10 ug/L	#	79
54) Methylcyclohexane	7.263	55	25128	2.27 ug/L		87
55) 1,2-Diclpropane	7.305	63	17310	2.03 ug/L		97
56) Dibromomethane	7.445	93	9975	1.82 ug/L		78
57) 1,4-Dioxane	7.506	88	6883	34.92 ug/L		84
58) Methyl Methacrylate	7.537	69	14415	1.97 ug/L	#	81
59) Bromodichloromethane	7.671	83	20548	1.96 ug/L		96
60) 2-Nitropropane	7.945	41	14734	4.14 ug/L		89
61) 2-Chloroethylvinyl Ether	8.073	63	12159	1.89 ug/L		88
62) cis-1,3-Dichloropropene	8.201	75	24796	2.07 ug/L		90
63) 4-Methyl-2-pentanone	8.403	43	28407	1.84 ug/L		93
65) Toluene	8.561	91	65305	2.17 ug/L		96
66) trans-1,3-Dichloropropene	8.829	75	20680	1.80 ug/L		95
67) Ethyl Methacrylate	8.963	69	23499	1.87 ug/L		95
68) 1,1,2-Trichloroethane	9.012	97	15987	2.14 ug/L		84
71) Tetrachloroethene	9.146	164	12231	2.04 ug/L	#	63
72) 2-Hexanone	9.299	43	21950	1.86 ug/L		90
73) 1,3-Dichloropropane	9.183	76	27519	2.15 ug/L		91
74) Dibromochloromethane	9.396	129	13111	1.69 ug/L		87
75) N-Butyl Acetate	9.451	43	37423	1.84 ug/L		99
76) 1,2-Dibromoethane	9.500	107	14976	1.86 ug/L		93
77) 3-Chlorobenzotrifluoride	10.000	180	25196	2.15 ug/L		98
78) Chlorobenzene	9.982	112	43708	2.21 ug/L		95
79) 4-Chlorobenzotrifluoride	10.055	180	20640m	2.00 ug/L		
80) 1,1,1,2-Tetrachloroethane	10.067	131	13237	1.84 ug/L		89
81) Ethylbenzene	10.097	106	23001	2.23 ug/L	#	81
82) (m+p)Xylene	10.213	106	53770	4.33 ug/L		97
83) o-Xylene	10.561	106	26357	2.12 ug/L		99
84) Styrene	10.579	104	41897	1.96 ug/L		92
85) Bromoform	10.731	173	9151	1.58 ug/L		96
86) 2-Chlorobenzotrifluoride	10.805	180	24113	2.13 ug/L		100
87) Isopropylbenzene	10.896	105	69886	2.25 ug/L		99
88) Cyclohexanone	10.957	55	94472	41.34 ug/L		87
89) trans-1,4-Dichloro-2-B...	11.201	53	7556	1.99 ug/L		86
91) 1,1,2,2-Tetrachloroethane	11.152	83	17328	1.95 ug/L		97
92) Bromobenzene	11.140	156	18637	2.09 ug/L	#	73
93) 1,2,3-Trichloropropane	11.182	110	6500	1.85 ug/L	#	86

00212

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 09:59:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

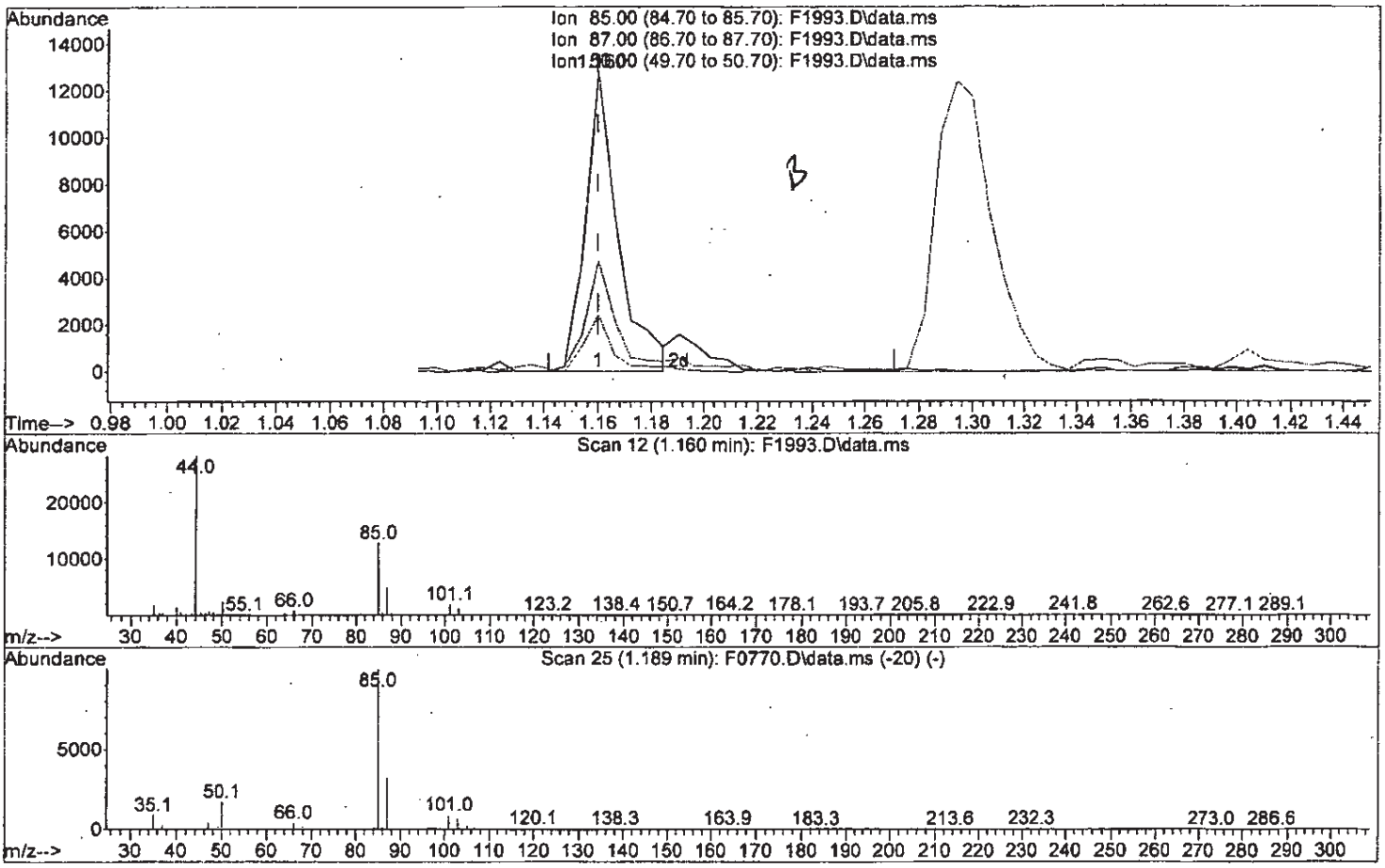
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.250	91	84593	2.37	ug/L	97
95)	2-Chlorotoluene	11.310	91	49657	2.17	ug/L	95
96)	3-Chlorotoluene	11.365	91	52056	2.21	ug/L	95
97)	4-Chlorotoluene	11.408	91	56843	2.13	ug/L	93
98)	1,3,5-Trimethylbenzene	11.402	105	59543	2.42	ug/L	98
99)	tert-Butylbenzene	11.676	119	46613	2.09	ug/L	93
100)	1,2,4-Trimethylbenzene	11.707	105	58065	2.25	ug/L	88
101)	3,4-Dichlorobenzotrifl...	11.774	214	20290	2.17	ug/L	92
102)	sec-Butylbenzene	11.853	105	73204	2.32	ug/L	99
103)	p-Isopropyltoluene	11.975	119	55973	2.12	ug/L	95
104)	1,3-Dclbenz	11.932	146	36692	2.25	ug/L	96
105)	1,4-Dclbenz	12.005	146	35201	2.03	ug/L	94
106)	2,4-Dichlorobenzotrifl...	12.060	214	17712	2.10	ug/L	96
107)	2,5-Dichlorobenzotrifl...	12.103	214	19091	2.06	ug/L	89
108)	n-Butylbenzene	12.304	91	58220	2.17	ug/L	94
109)	1,2-Dclbenz	12.310	146	34333	2.08	ug/L	95
110)	1,2-Dibromo-3-chloropr...	12.932	157	4859	1.83	ug/L	87
111)	Trielution Dichlorotol...	13.048	125	92607	6.32	ug/L	94
112)	1,3,5-Trichlorobenzene	13.097	180	27471	2.11	ug/L	99
113)	Coelution Dichlorotoluene	13.371	125	68436	4.26	ug/L	94
114)	1,2,4-Tcbenzene	13.584	180	27105	2.09	ug/L	98
115)	Hexachlorobt	13.725	225	10569	1.99	ug/L	93
116)	Naphthalen	13.773	128	74869	2.01	ug/L	95
117)	1,2,3-Tclbenzene	13.962	180	27675	2.12	ug/L	92
118)	2,4,5-Trichlorotoluene	14.542	159	20483	1.97	ug/L	97
119)	2,3,6-Trichlorotoluene	14.633	159	18413	2.02	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 09:10:11 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(2) Dichlorodifluoromethane (P)

1.160min (+0.000) 1.57 ug/L

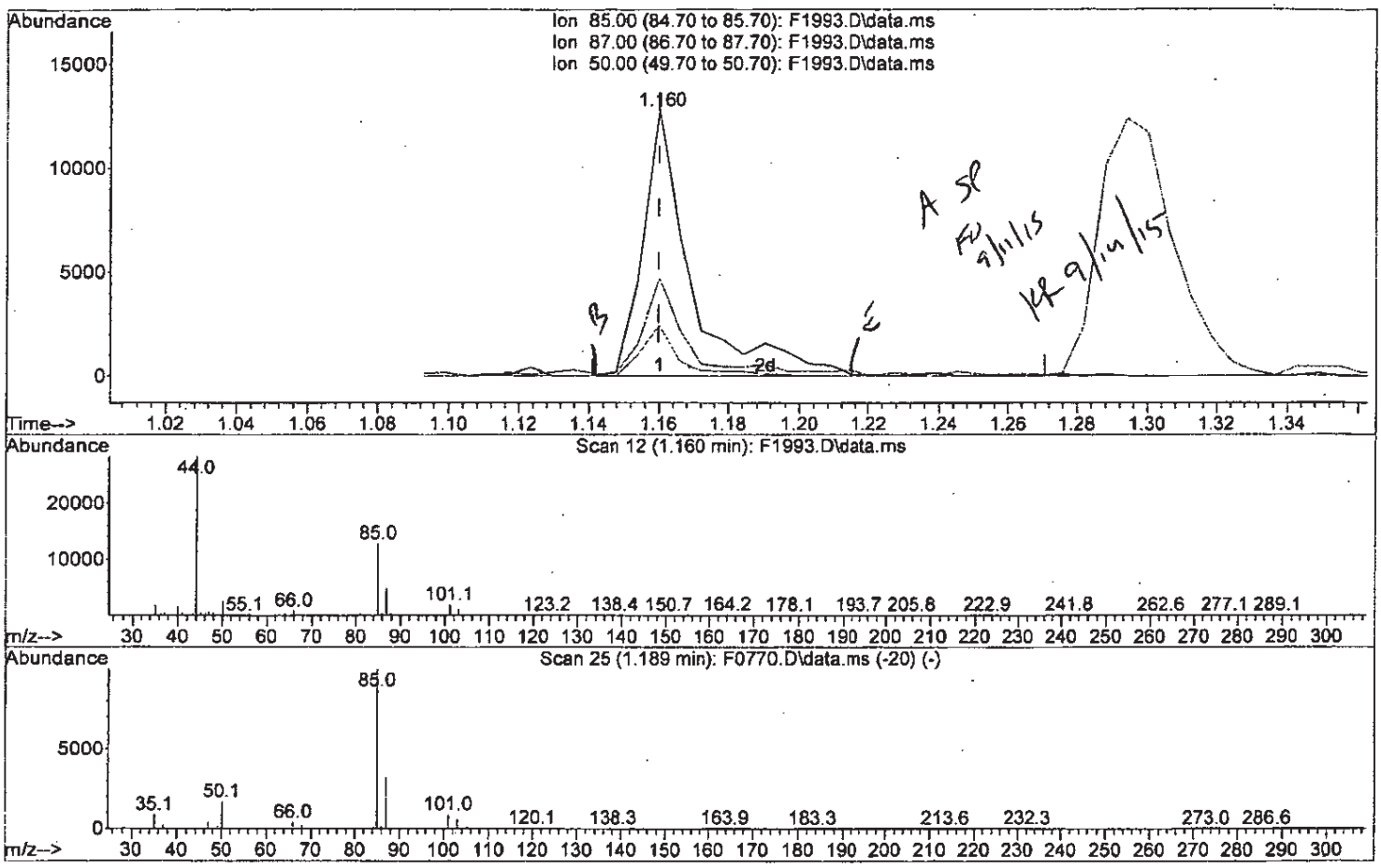
response 10646

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	36.88
50.00	17.40	18.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 09:10:11 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(2) Dichlorodifluoromethane (P)

1.160min (+0.000) 1.79 ug/L m

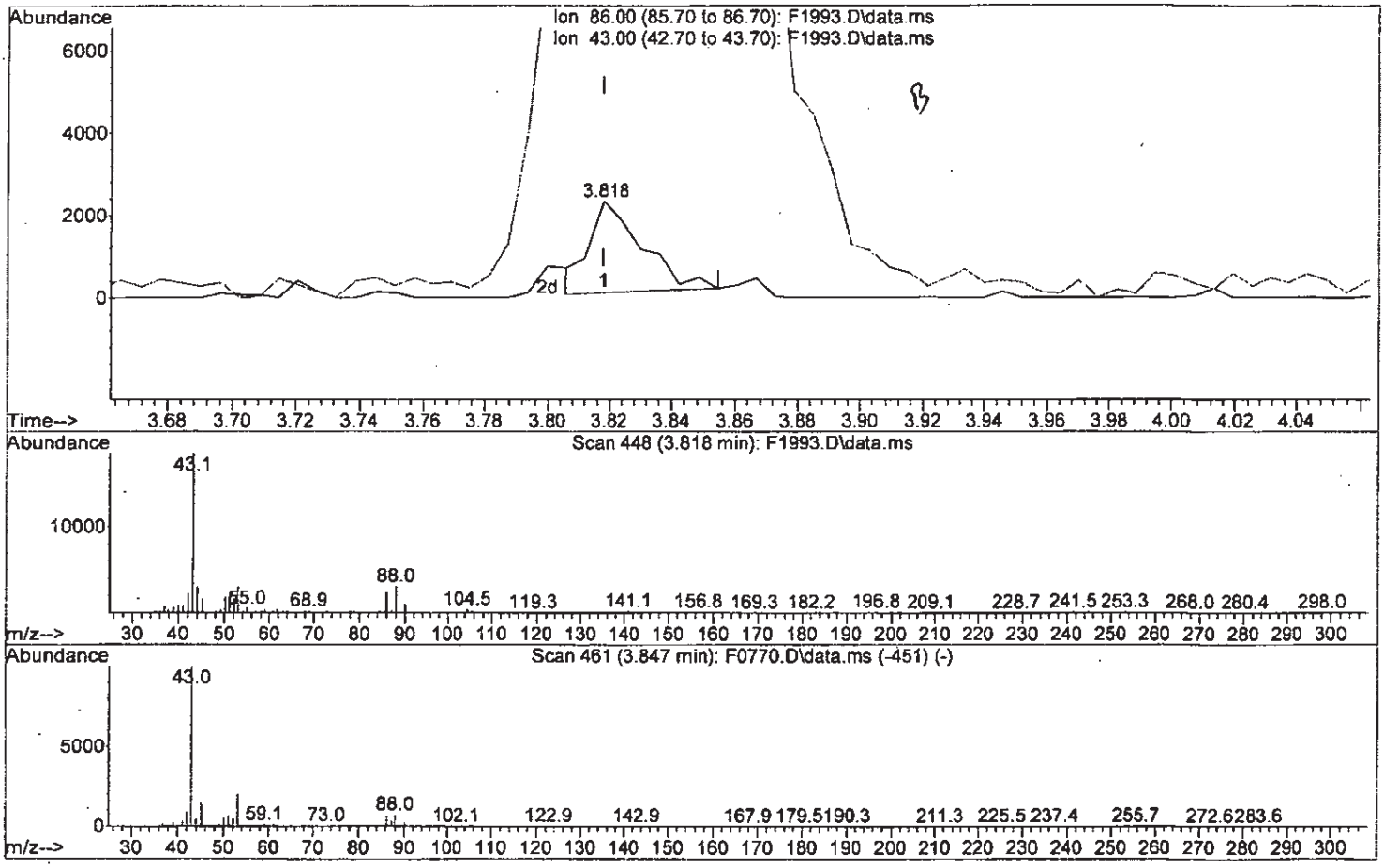
response 12110

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	36.88
50.00	17.40	18.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(28) Vinyl Acetate

3.818min (+0.000) 1.82 ug/L

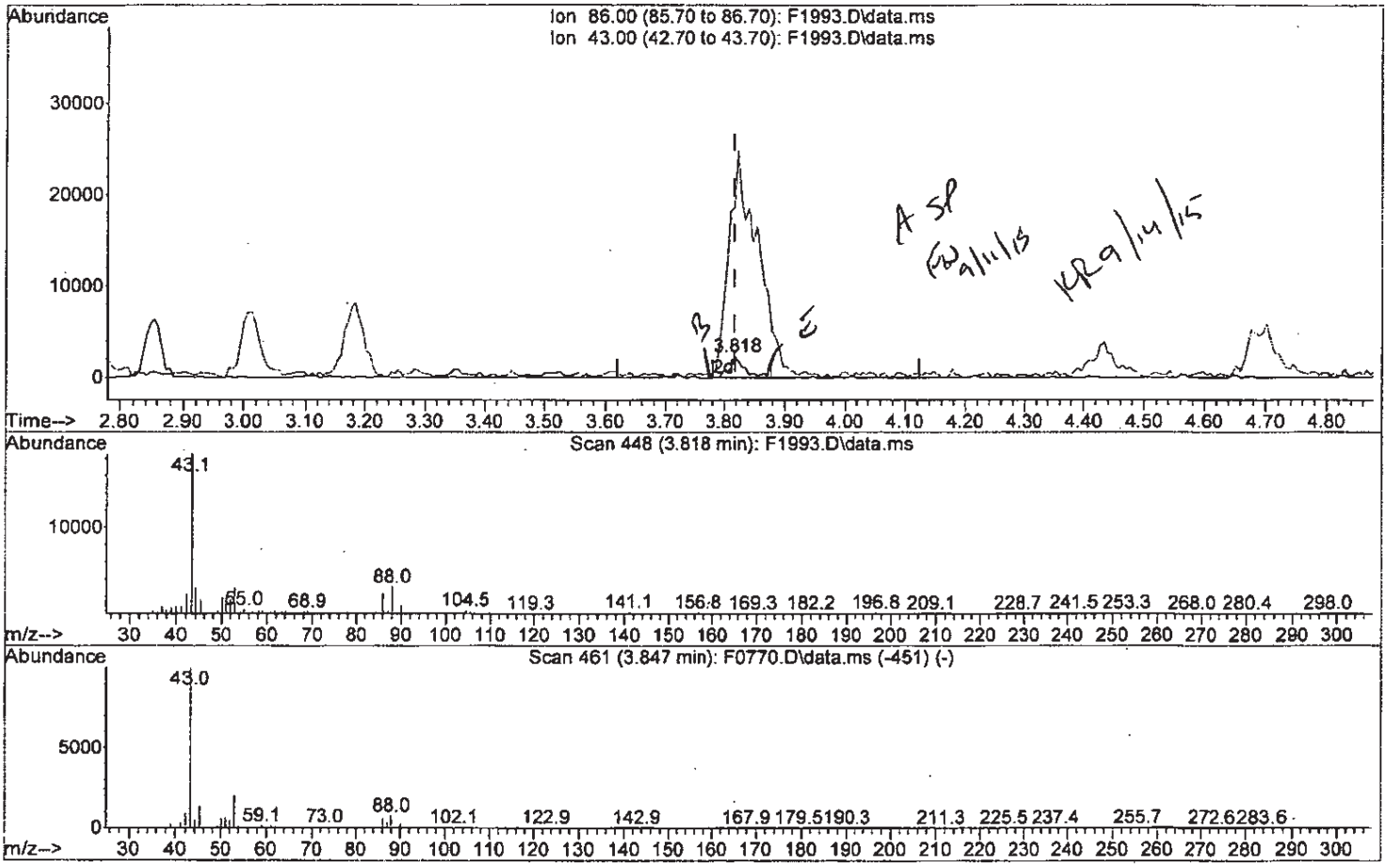
response 2624

Ion	Exp%	Act%
86.00	100	100
43.00	1655.60	792.80#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(28) Vinyl Acetate

3.818min (+0.000) 2.74 ug/L m

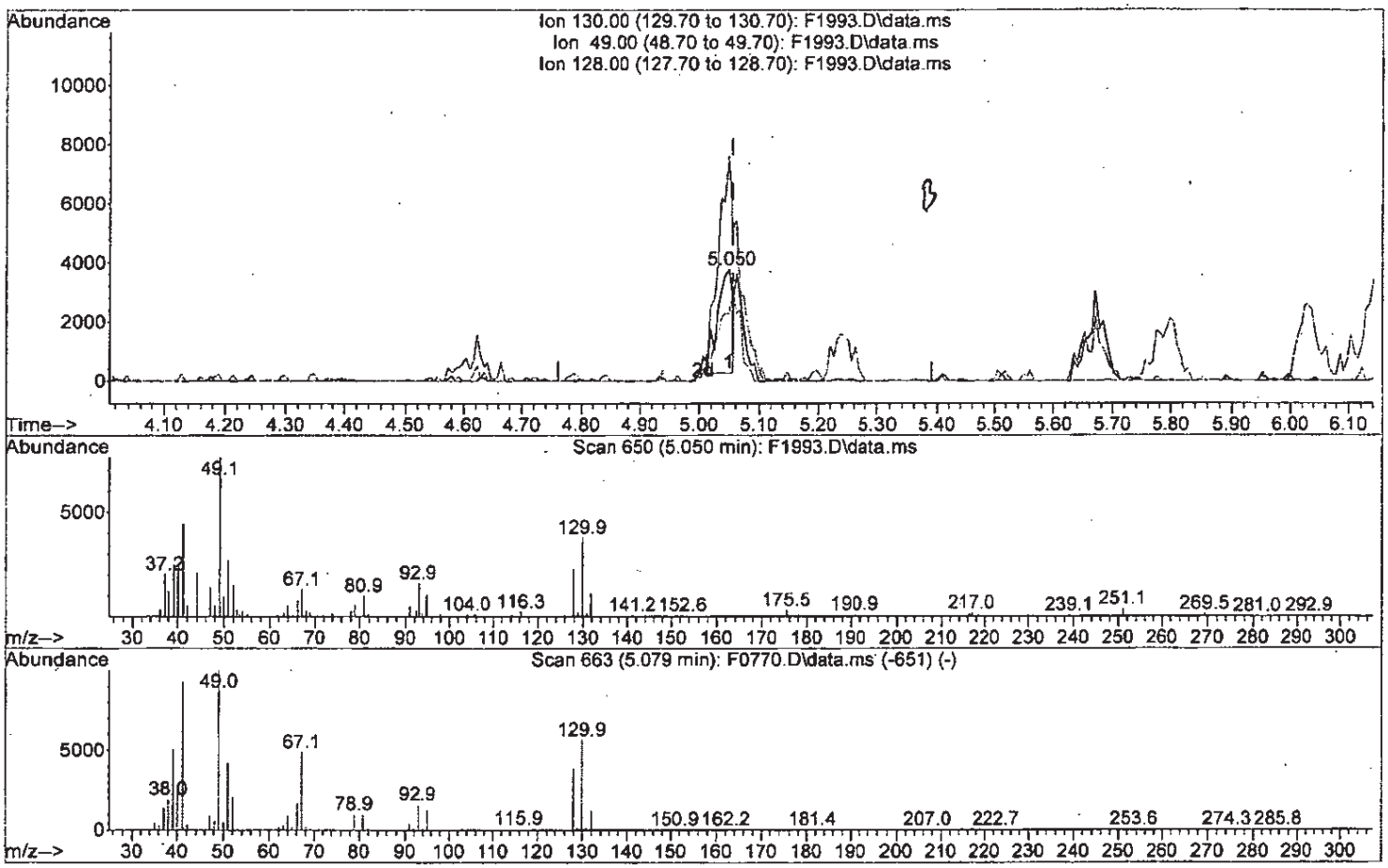
response 3954

Ion	Exp%	Act%
86.00	100	100
43.00	1655.60	792.80#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(36) Bromochloromethane

5.050min (-0.006) 1.17 ug/L

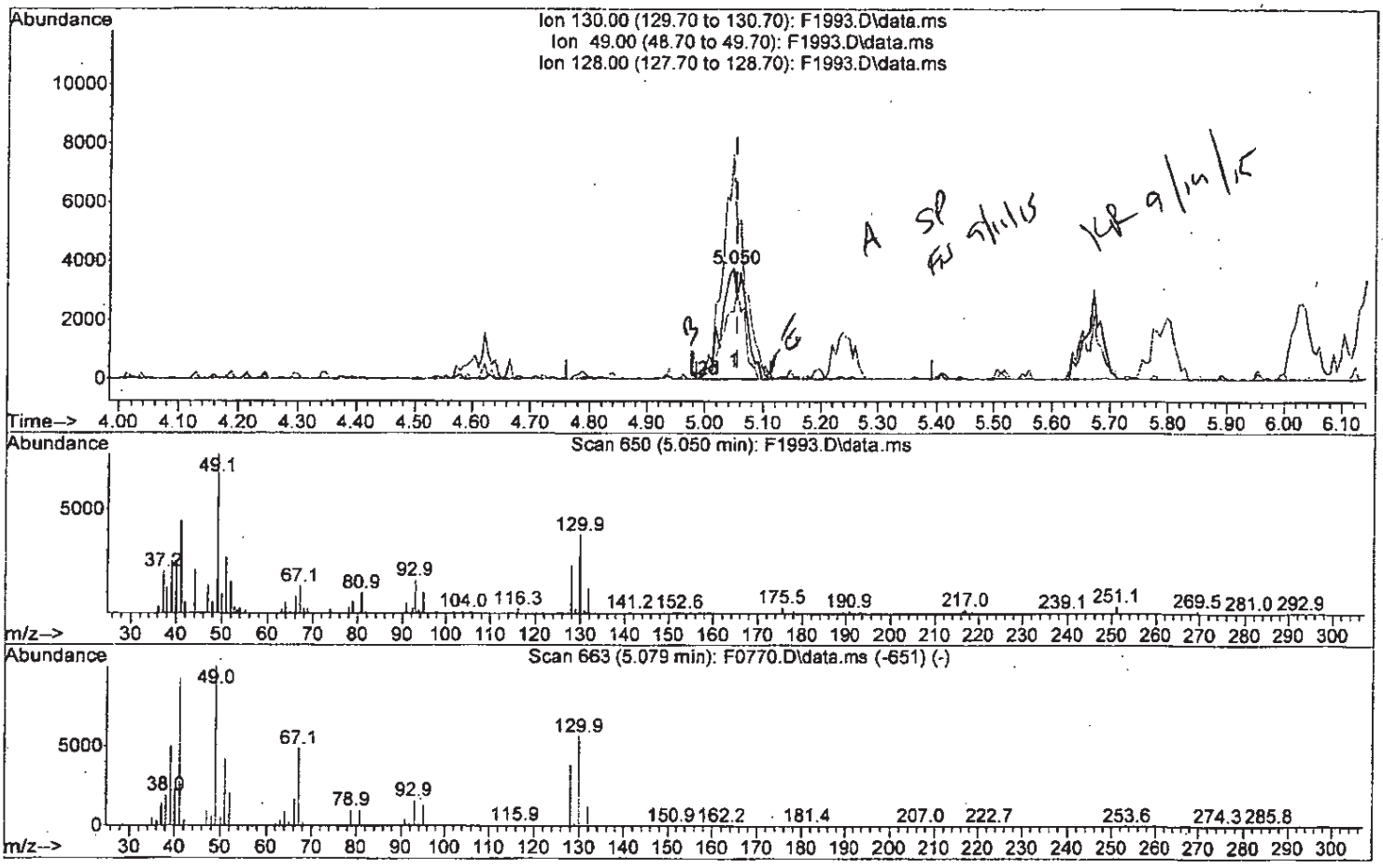
response 5977

Ion	Exp%	Act%
130.00	100	100
49.00	177.90	202.15#
128.00	68.20	60.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(36) Bromochloromethane

5.050min (-0.006) 2.12 ug/L m

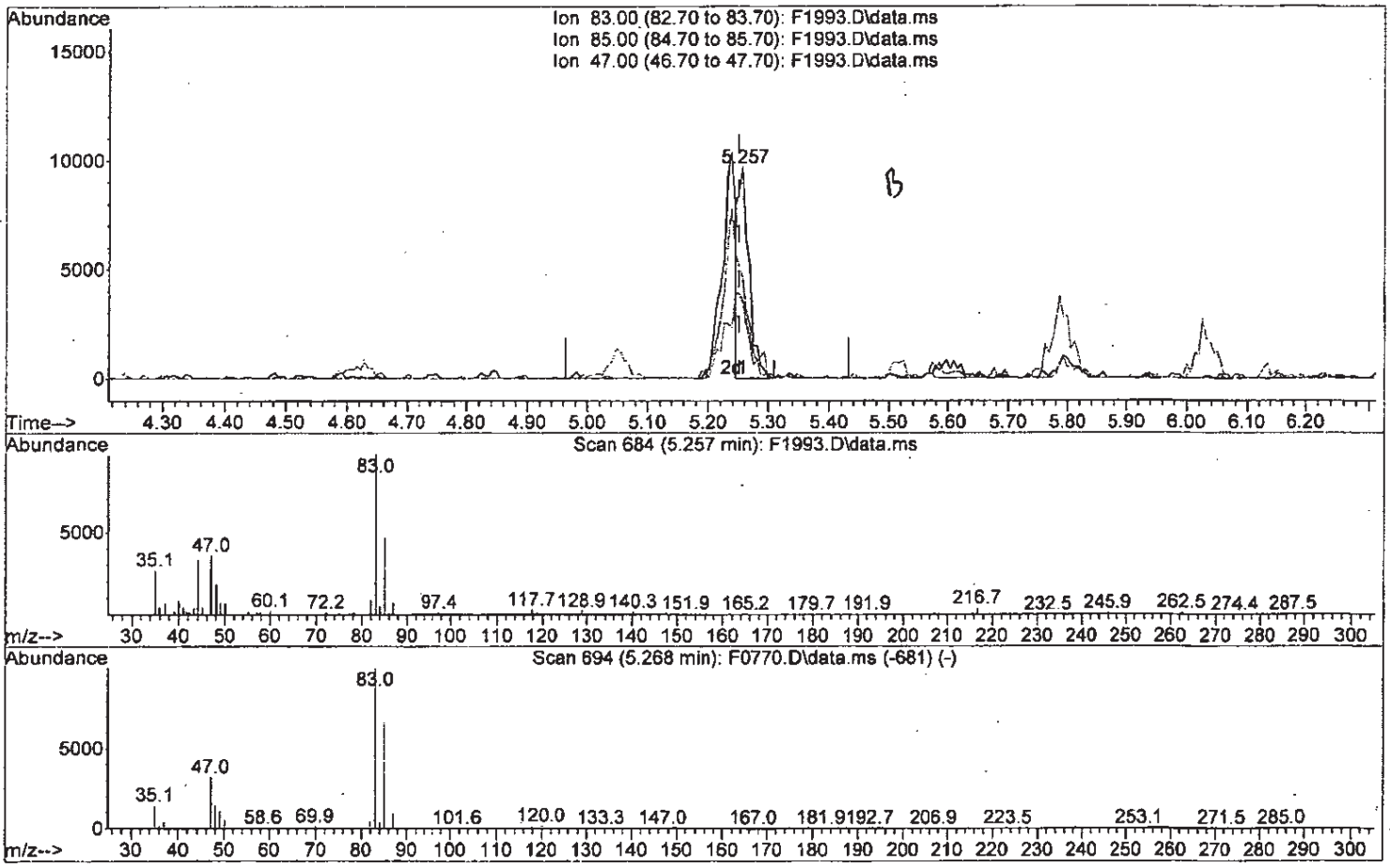
response 10798

Ion	Exp%	Act%
130.00	100	100
49.00	177.90	202.15#
128.00	68.20	60.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(39) Chloroform (P)

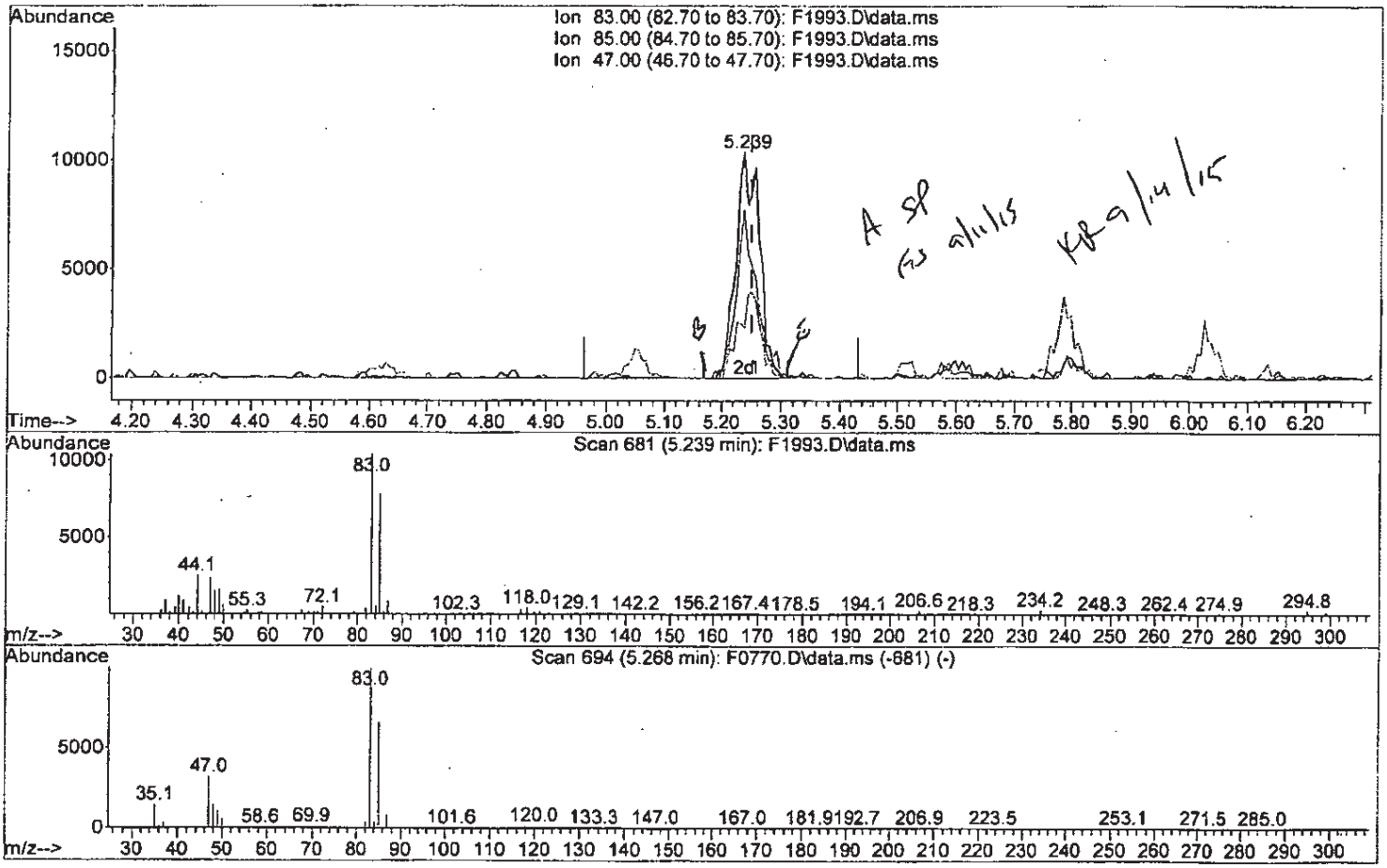
5.257min (+0.006) 0.92 ug/L

response 12356

Ion	Exp%	Act%
83.00	100	100
85.00	66.10	47.67
47.00	31.90	36.88
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(39) Chloroform (P)

5.239min (-0.012) 2.08 ug/L m

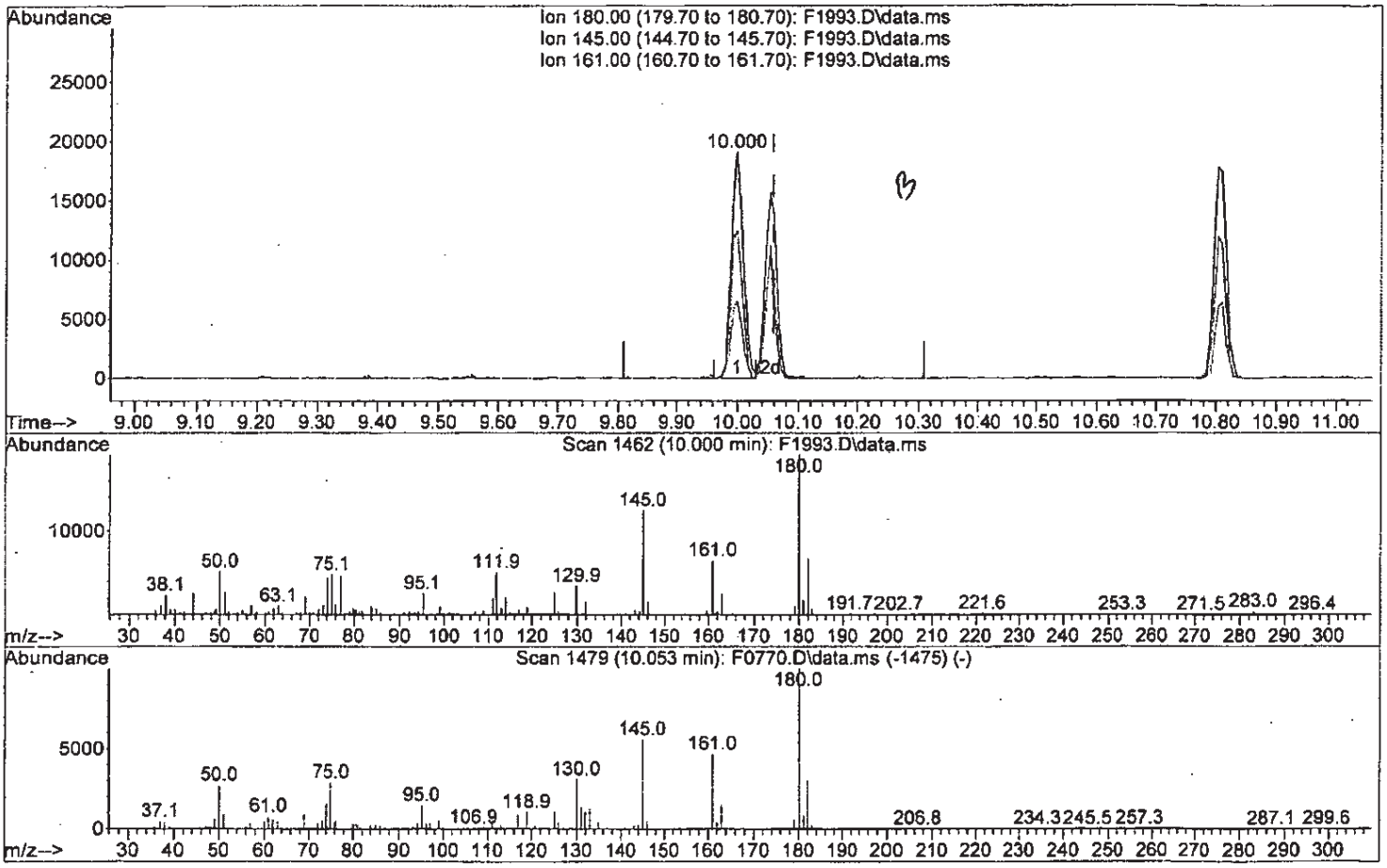
response 28020

Ion	Exp%	Act%
83.00	100	100
85.00	66.10	74.68
47.00	31.90	22.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(79) 4-Chlorobenzotrifluoride

10.000min (-0.060) 2.44 ug/L

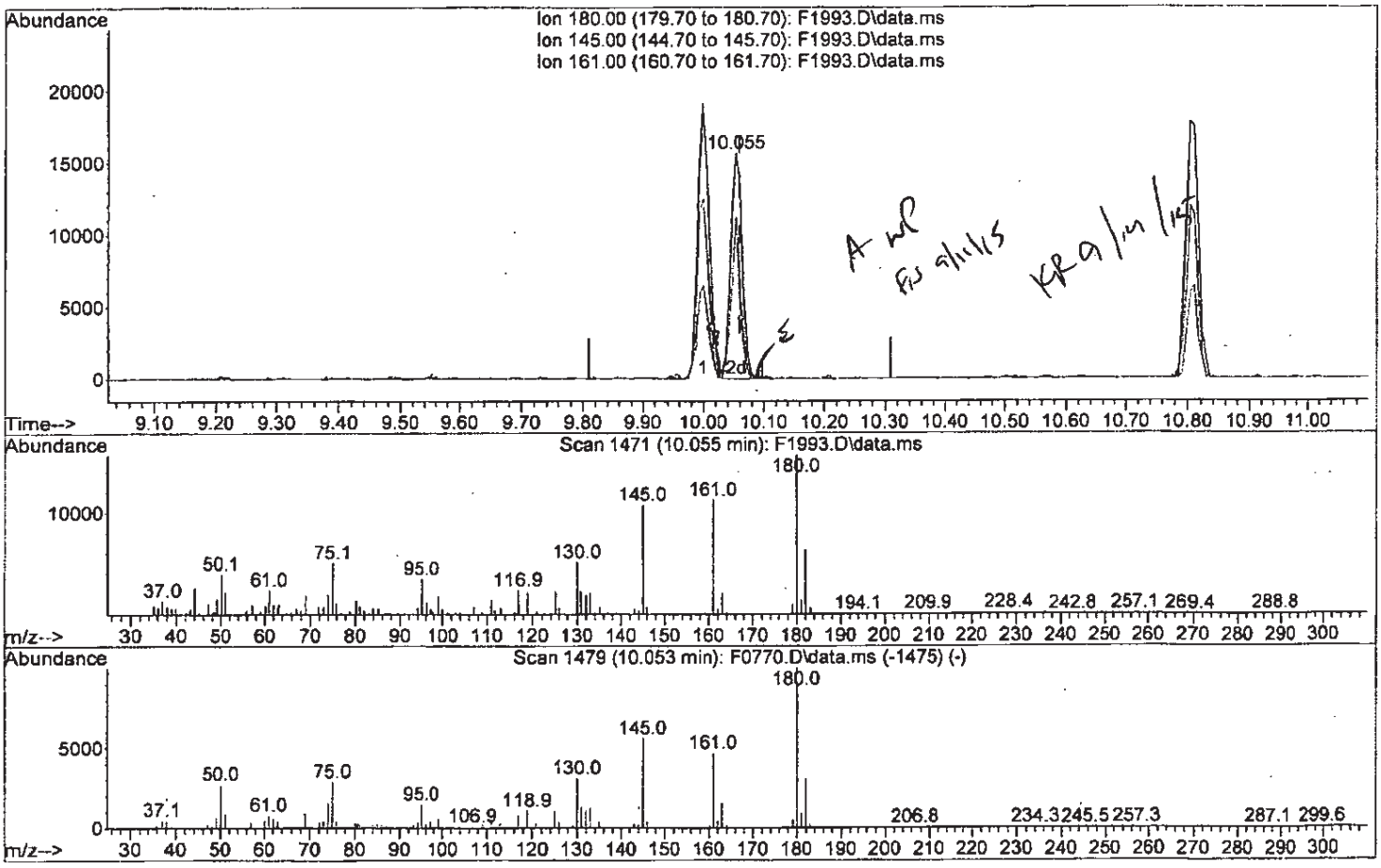
response 25196

Ion	Exp%	Act%
180.00	100	100
145.00	55.90	65.26
161.00	46.60	33.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(79) 4-Chlorobenzotrifluoride

10.055min (-0.005) 2.00 ug/L m

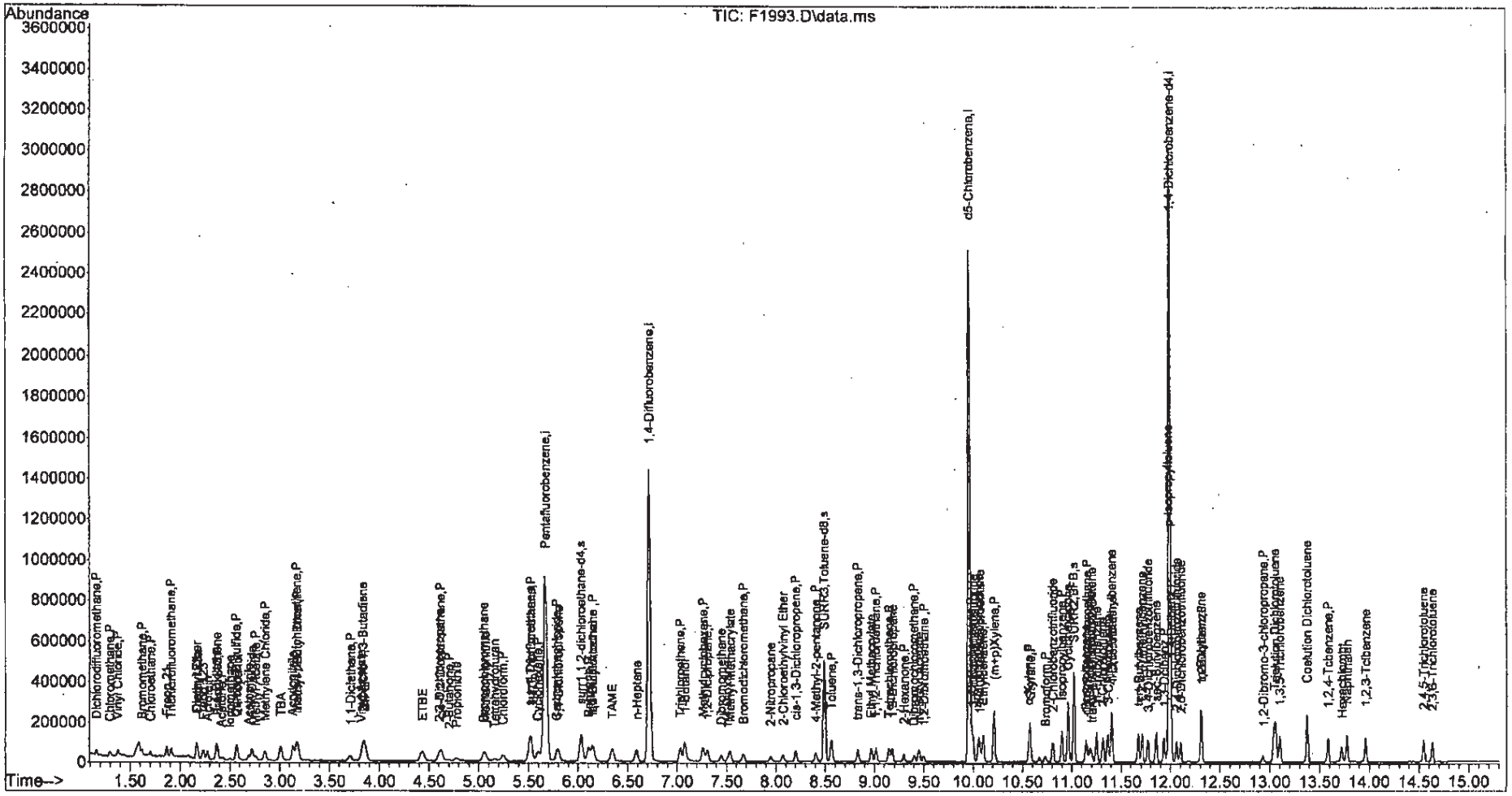
response 20640

Ion	Exp%	Act%
180.00	100	100
145.00	55.90	68.52
161.00	46.60	71.61#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 09:59:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1994.D
Acq On : 10 Sep 2015 6:54 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 09:12:48 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FW 9/11/15

KF 9/14/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	766712	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	1116140	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	965097	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	506071	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	71508	9.83	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	19.66%#		
46) surr1,1,2-dichloroetha...	6.031	65	111005	11.23	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	22.46%#		
64) SURR3,Toluene-d8	8.488	98	281811	10.86	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	21.72%#		
69) SURR2,BFB	11.018	95	103728	9.47	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	18.94%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	32152	4.91	ug/L	98
3) Chloromethane	1.294	50	41898	4.86	ug/L	94
4) Vinyl Chloride	1.379	62	39855	5.26	ug/L	88
5) Bromomethane	1.617	94	24394	5.70	ug/L	95
6) Chloroethane	1.703	64	23985	5.61	ug/L	93
7) Freon 21	1.867	67	69145	5.53	ug/L	99
8) Trichlorofluoromethane	1.910	101	50941	5.39	ug/L	96
9) Diethyl Ether	2.166	59	35422	4.72	ug/L	86
10) Freon 123a	2.172	67	45682	5.59	ug/L	89
11) Freon 123	2.233	83	44193	4.89	ug/L	92
12) Acrolein	2.276	56	60095	24.20	ug/L	94
13) 1,1-Diclethene	2.367	96	31222	5.03	ug/L	93
14) Freon 113	2.373	101	33403	4.97	ug/L	97
15) Acetone	2.416	43	37207	5.84	ug/L	89
16) 2-Propanol	2.580	45	137539	95.38	ug/L	89
17) Iodomethane	2.501	142	22565	3.28	ug/L	99
18) Carbon Disulfide	2.562	76	93809	5.18	ug/L	98
19) Acetonitrile	2.696	40	29466m	25.14	ug/L	
20) Allyl Chloride	2.727	76	18301	5.01	ug/L #	70
21) Methyl Acetate	2.757	43	60010	5.08	ug/L	96
22) Methylene Chloride	2.849	84	36851	4.85	ug/L #	85
23) TBA	3.013	59	196099	98.32	ug/L	98
24) Acrylonitrile	3.129	53	133015	24.86	ug/L	96
25) Methyl-t-Butyl Ether	3.184	73	134024	5.14	ug/L	93
26) trans-1,2-Dichloroethene	3.172	96	33711	5.08	ug/L	93
27) 1,1-Diclethane	3.708	63	72178	5.36	ug/L	92
28) Vinyl Acetate	3.812	86	6163	4.41	ug/L #	1
29) DIPE	3.861	45	172644	5.33	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.842	53	79376	5.44	ug/L	98
31) ETBE	4.434	59	144596	5.22	ug/L	94
32) 2,2-Dichloropropane	4.604	77	54925	5.26	ug/L	87
33) cis-1,2-Dichloroethene	4.617	96	37274	4.87	ug/L #	66
34) 2-Butanone	4.684	43	41033	4.75	ug/L	94
35) Propionitrile	4.775	54	53996	24.79	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1994.D
Acq On : 10 Sep 2015 6:54 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 09:12:48 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.056	130	23968	4.86	ug/L		95
37) Methacrylonitrile	5.062	67	22594	4.67	ug/L		90
38) Tetrahydrofuran	5.159	42	29752	5.62	ug/L		87
39) Chloroform	5.245	83	68939	5.30	ug/L		95
40) 1,1,1-Trichloroethane	5.525	97	56553	5.10	ug/L		91
42) Cyclohexane	5.598	41	51651	5.43	ug/L		92
44) Carbontetrachloride	5.781	121	15279	5.57	ug/L		98
45) 1,1-Dichloropropene	5.799	75	48809	5.10	ug/L		86
47) Benzene	6.110	78	145735	5.22	ug/L		87
48) 1,2-Dichloroethane	6.147	62	65386	5.09	ug/L		94
49) Iso-Butyl Alcohol	6.147	43	92214	91.38	ug/L		83
50) TAME	6.342	73	119285	5.07	ug/L		95
51) n-Heptane	6.586	43	64131	5.07	ug/L		97
52) 1-Butanol	7.073	56	124869	229.91	ug/L		98
53) Trichloroethene	7.037	130	45328	5.25	ug/L		89
54) Methylcyclohexane	7.262	55	59676	5.46	ug/L		96
55) 1,2-Diclpropane	7.305	63	45971	5.45	ug/L		84
56) Dibromomethane	7.445	93	24032	4.45	ug/L		91
57) 1,4-Dioxane	7.506	88	18551	95.24	ug/L		86
58) Methyl Methacrylate	7.537	69	34151	4.73	ug/L		97
59) Bromodichloromethane	7.671	83	48722	4.70	ug/L		96
60) 2-Nitropropane	7.945	41	28555	8.13	ug/L	#	80
61) 2-Chloroethylvinyl Ether	8.067	63	31677	4.98	ug/L		97
62) cis-1,3-Dichloropropene	8.201	75	57219	4.84	ug/L		96
63) 4-Methyl-2-pentanone	8.402	43	75546	4.95	ug/L		91
65) Toluene	8.567	91	152764	5.13	ug/L		98
66) trans-1,3-Dichloropropene	8.829	75	50688	4.46	ug/L		95
67) Ethyl Methacrylate	8.963	69	57165	4.60	ug/L		96
68) 1,1,2-Trichloroethane	9.018	97	35043	4.74	ug/L		88
71) Tetrachloroethene	9.146	164	30919	5.24	ug/L		90
72) 2-Hexanone	9.299	43	58330	5.04	ug/L		88
73) 1,3-Dichloropropane	9.177	76	61387	4.88	ug/L		88
74) Dibromochloromethane	9.402	129	35349	4.64	ug/L		88
75) N-Butyl Acetate	9.451	43	101304	5.09	ug/L		91
76) 1,2-Dibromoethane	9.494	107	39231	4.96	ug/L		97
77) 3-Chlorobenzotrifluoride	10.000	180	60297	5.25	ug/L		98
78) Chlorobenzene	9.981	112	103314	5.33	ug/L		96
79) 4-Chlorobenzotrifluoride	10.055	180	51818	5.10	ug/L		88
80) 1,1,1,2-Tetrachloroethane	10.073	131	33745	4.78	ug/L		93
81) Ethylbenzene	10.103	106	54371	5.36	ug/L		95
82) (m+p)Xylene	10.213	106	127939	10.48	ug/L		93
83) o-Xylene	10.567	106	65467	5.35	ug/L		93
84) Styrene	10.579	104	105435	5.03	ug/L		91
85) Bromoform	10.731	173	22615	3.98	ug/L		97
86) 2-Chlorobenzotrifluoride	10.811	180	59013	5.30	ug/L		86
87) Isopropylbenzene	10.896	105	164931	5.40	ug/L		93
88) Cyclohexanone	10.957	55	252002	112.30	ug/L		89
89) trans-1,4-Dichloro-2-B...	11.201	53	16163	4.33	ug/L		86
91) 1,1,2,2-Tetrachloroethane	11.158	83	39633	4.64	ug/L		95
92) Bromobenzene	11.140	156	45763	5.36	ug/L		89
93) 1,2,3-Trichloropropane	11.182	110	17294	5.13	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1994.D
Acq On : 10 Sep 2015 6:54 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 09:12:48 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

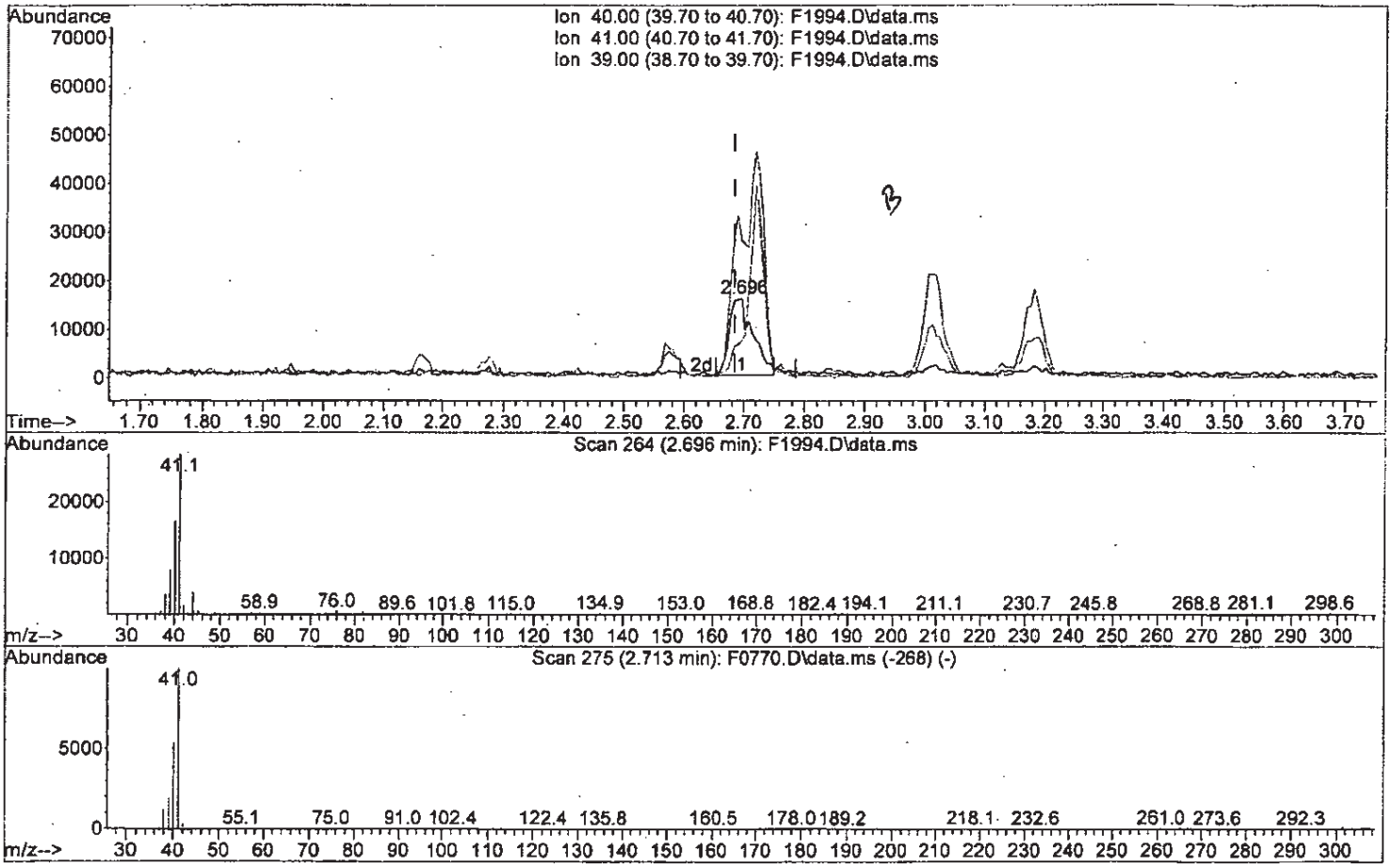
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.249	91	197875	5.79	ug/L	96
95)	2-Chlorotoluene	11.310	91	115416	5.26	ug/L	97
96)	3-Chlorotoluene	11.365	91	122820	5.43	ug/L	96
97)	4-Chlorotoluene	11.402	91	139521	5.45	ug/L	98
98)	1,3,5-Trimethylbenzene	11.402	105	141342	5.99	ug/L	97
99)	tert-Butylbenzene	11.670	119	114637	5.37	ug/L	95
100)	1,2,4-Trimethylbenzene	11.713	105	137432	5.57	ug/L	90
101)	3,4-Dichlorobenzotrifl...	11.774	214	45344	5.07	ug/L	94
102)	sec-Butylbenzene	11.853	105	174333	5.76	ug/L	97
103)	p-Isopropyltoluene	11.975	119	144800	5.73	ug/L	96
104)	1,3-Dclbenz	11.932	146	82347	5.26	ug/L	97
105)	1,4-Dclbenz	12.005	146	88325	5.33	ug/L	98
106)	2,4-Dichlorobenzotrifl...	12.060	214	43729	5.41	ug/L	96
107)	2,5-Dichlorobenzotrifl...	12.097	214	47303	5.33	ug/L	95
108)	n-Butylbenzene	12.304	91	142089	5.52	ug/L	95
109)	1,2-Dclbenz	12.310	146	82489	5.22	ug/L	93
110)	1,2-Dibromo-3-chloropr...	12.932	157	11088	4.35	ug/L	99
111)	Trielution Dichlorotol...	13.048	125	228233	16.25	ug/L	96
112)	1,3,5-Trichlorobenzene	13.103	180	66811	5.35	ug/L	94
113)	Coelution Dichlorotoluene	13.371	125	178374	11.58	ug/L	97
114)	1,2,4-Tcbenzene	13.584	180	63855	5.13	ug/L	93
115)	Hexachlorobt	13.725	225	26434	5.19	ug/L	86
116)	Naphthalen	13.773	128	199071	5.58	ug/L	98
117)	1,2,3-Tclbenzene	13.962	180	68042	5.43	ug/L	93
118)	2,4,5-Trichlorotoluene	14.548	159	49050	4.93	ug/L	95
119)	2,3,6-Trichlorotoluene	14.627	159	47329	5.41	ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1994.D
Acq On : 10 Sep 2015 6:54 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 19:08:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1994.D\data.ms

(19) Acetonitrile

2.696min (+0.012) 37.45 ug/L

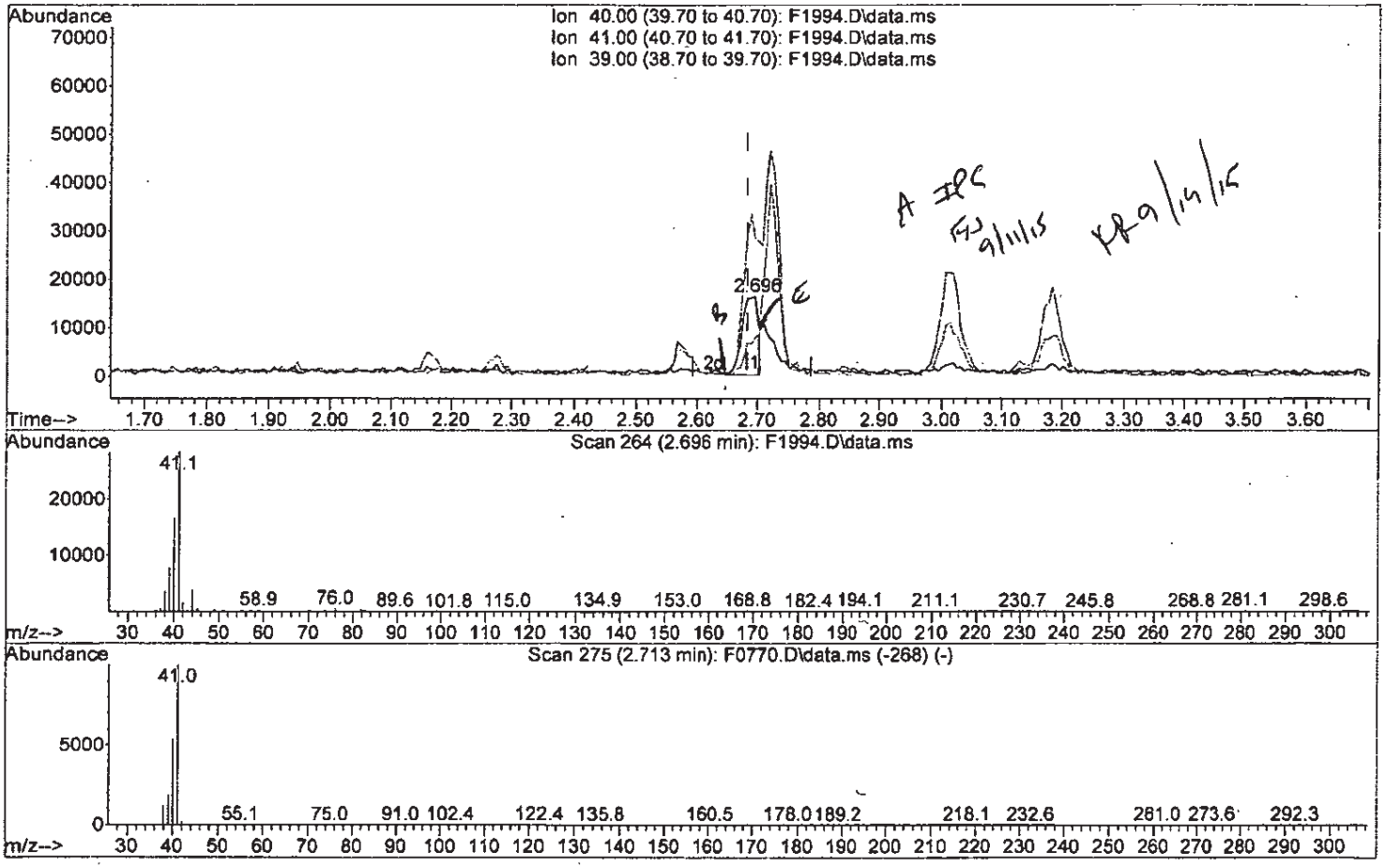
response 43895

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	171.88
39.00	35.30	47.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1994.D
Acq On : 10 Sep 2015 6:54 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 19:08:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1994.D\data.ms

(19) Acetonitrile

2.696min (+0.012) 25.14 ug/L m

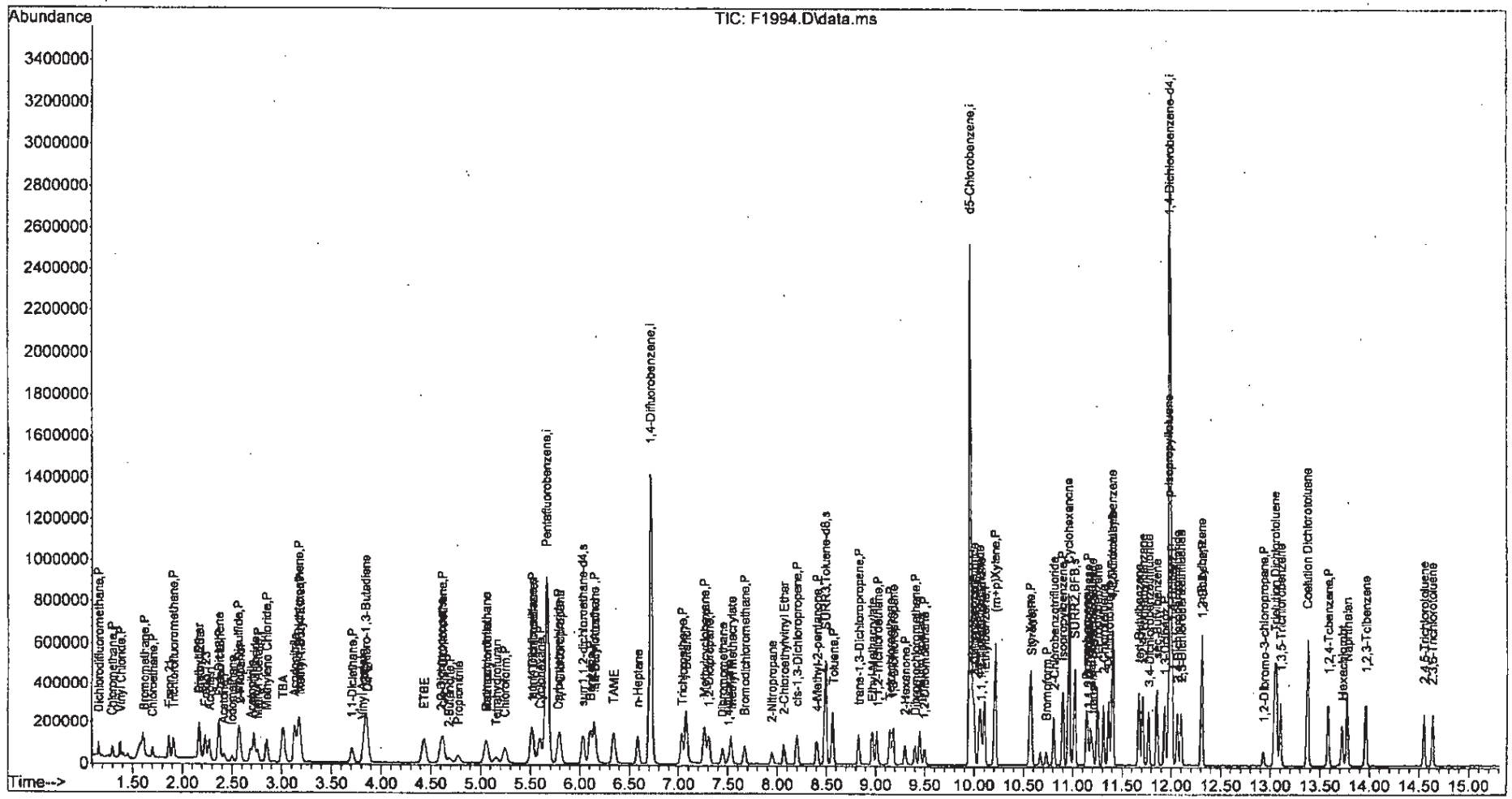
response 29466

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	171.88
39.00	35.30	47.54
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1994.D
Acq On : 10 Sep 2015 6:54 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 09:12:48 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1995.D
Acq On : 10 Sep 2015 7:18 pm
Operator : F. Naegler
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 10 19:32:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FW 9/11/15
KF 9/14/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	786265	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	1119309	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	969415	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	526341	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	141407	19.39	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 38.78%#			
46) surr1,1,2-dichloroetha...	6.031	65	191173	19.28	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 38.56%#			
64) SURR3,Toluene-d8	8.494	98	514485	19.77	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 39.54%#			
69) SURR2,BFB	11.018	95	201208	18.32	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 36.64%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	151442	22.54	ug/L	97
3) Chloromethane	1.294	50	189973	21.48	ug/L	96
4) Vinyl Chloride	1.380	62	168732	21.74	ug/L	98
5) Bromomethane	1.623	94	88973	20.27	ug/L	99
6) Chloroethane	1.703	64	104520	23.86	ug/L	97
7) Freon 21	1.867	67	284218	22.18	ug/L	100
8) Trichlorofluoromethane	1.916	101	223784	23.10	ug/L	95
9) Diethyl Ether	2.166	59	153804	19.97	ug/L	93
10) Freon 123a	2.172	67	174335	20.79	ug/L	95
11) Freon 123	2.233	83	178222	19.23	ug/L	98
12) Acrolein	2.270	56	250571	98.40	ug/L	93
13) 1,1-Diclethene	2.367	96	126954	19.94	ug/L	90
14) Freon 113	2.373	101	144289	20.93	ug/L	100
15) Acetone	2.416	43	137914	21.11	ug/L	93
16) 2-Propanol	2.568	45	538801	364.35	ug/L	87
17) Iodomethane	2.501	142	175770	24.94	ug/L	93
18) Carbon Disulfide	2.568	76	375174	20.19	ug/L	100
19) Acetonitrile	2.684	40	138864	115.53	ug/L	91
20) Allyl Chloride	2.721	76	77371	20.67	ug/L #	20
21) Methyl Acetate	2.757	43	246530	20.34	ug/L	99
22) Methylene Chloride	2.849	84	153960	19.77	ug/L	88
23) TBA	3.007	59	786965	384.74	ug/L	100
24) Acrylonitrile	3.129	53	565161	102.99	ug/L	96
25) Methyl-t-Butyl Ether	3.184	73	568911	21.28	ug/L	93
26) trans-1,2-Dichloroethene	3.166	96	145050	21.30	ug/L	90
27) 1,1-Diclethane	3.708	63	296930	21.52	ug/L	98
28) Vinyl Acetate	3.818	86	33408	23.31	ug/L #	52
29) DIPE	3.855	45	712813	21.46	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.842	53	338046	22.57	ug/L	99
31) ETBE	4.434	59	596843	21.00	ug/L	97
32) 2,2-Dichloropropane	4.604	77	228199	21.32	ug/L	97
33) cis-1,2-Dichloroethene	4.617	96	165627	21.10	ug/L #	71
34) 2-Butanone	4.678	43	167473	18.92	ug/L	95
35) Propionitrile	4.769	54	229882	102.92	ug/L	97

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1995.D
Acq On : 10 Sep 2015 7:18 pm
Operator : F. Naegler
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 10 19:32:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.056	130	105147	20.77	ug/L	#	87
37) Methacrylonitrile	5.062	67	97545	19.65	ug/L		93
38) Tetrahydrofuran	5.147	42	102134	18.81	ug/L		86
39) Chloroform	5.245	83	286198	21.46	ug/L		97
40) 1,1,1-Trichloroethane	5.519	97	249870	21.96	ug/L		96
42) Cyclohexane	5.598	41	212279	22.25	ug/L		87
44) Carbontetrachloride	5.787	121	62682	22.80	ug/L		84
45) 1,1-Dichloropropene	5.805	75	205278	21.40	ug/L		93
47) Benzene	6.104	78	619444	22.14	ug/L		88
48) 1,2-Dichloroethane	6.147	62	286977	22.28	ug/L		95
49) Iso-Butyl Alcohol	6.147	43	387853	383.26	ug/L		93
50) TAME	6.342	73	507232	21.51	ug/L		99
51) n-Heptane	6.586	43	275602	21.73	ug/L		93
52) 1-Butanol	7.074	56	533571	979.64	ug/L		91
53) Trichloroethene	7.031	130	178000	20.55	ug/L		95
54) Methylcyclohexane	7.263	55	242984	22.18	ug/L		88
55) 1,2-Diclpropane	7.305	63	179560	21.24	ug/L		96
56) Dibromomethane	7.445	93	111817	20.64	ug/L		97
57) 1,4-Dioxane	7.506	88	72362	370.47	ug/L		91
58) Methyl Methacrylate	7.531	69	148457	20.49	ug/L		89
59) Bromodichloromethane	7.671	83	212086	20.39	ug/L		98
60) 2-Nitropropane	7.945	41	134779	38.24	ug/L		83
61) 2-Chloroethylvinyl Ether	8.067	63	131413	20.62	ug/L		99
62) cis-1,3-Dichloropropene	8.201	75	256220	21.62	ug/L		98
63) 4-Methyl-2-pentanone	8.403	43	317401	20.72	ug/L		96
65) Toluene	8.561	91	660292	22.12	ug/L		96
66) trans-1,3-Dichloropropene	8.829	75	241074	21.14	ug/L		95
67) Ethyl Methacrylate	8.963	69	255279	20.47	ug/L		95
68) 1,1,2-Trichloroethane	9.012	97	153718	20.75	ug/L		90
71) Tetrachloroethene	9.146	164	125148	21.13	ug/L	#	87
72) 2-Hexanone	9.299	43	243708	20.97	ug/L		97
73) 1,3-Dichloropropane	9.177	76	276553	21.88	ug/L		97
74) Dibromochloromethane	9.402	129	159909	20.89	ug/L		95
75) N-Butyl Acetate	9.451	43	425136	21.25	ug/L		95
76) 1,2-Dibromoethane	9.500	107	167115	21.04	ug/L		97
77) 3-Chlorobenzotrifluoride	10.000	180	228245	19.77	ug/L		100
78) Chlorobenzene	9.982	112	420452	21.58	ug/L		98
79) 4-Chlorobenzotrifluoride	10.055	180	197373	19.36	ug/L		94
80) 1,1,1,2-Tetrachloroethane	10.067	131	150341	21.18	ug/L		97
81) Ethylbenzene	10.103	106	221822	21.79	ug/L		98
82) (m+p)Xylene	10.213	106	535677	43.69	ug/L		92
83) o-Xylene	10.567	106	264906	21.56	ug/L		97
84) Styrene	10.579	104	456413	21.69	ug/L		99
85) Bromoform	10.731	173	112117	19.67	ug/L		97
86) 2-Chlorobenzotrifluoride	10.805	180	226832	20.29	ug/L		98
87) Isopropylbenzene	10.896	105	697943	22.77	ug/L		99
88) Cyclohexanone	10.957	55	999455	443.41	ug/L		90
89) trans-1,4-Dichloro-2-B...	11.201	53	72692	19.37	ug/L		97
91) 1,1,2,2-Tetrachloroethane	11.152	83	200329	22.57	ug/L		97
92) Bromobenzene	11.140	156	185070	20.84	ug/L		90
93) 1,2,3-Trichloropropane	11.182	110	72731	20.75	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1995.D
Acq On : 10 Sep 2015 7:18 pm
Operator : F. Naegler
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 10 19:32:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

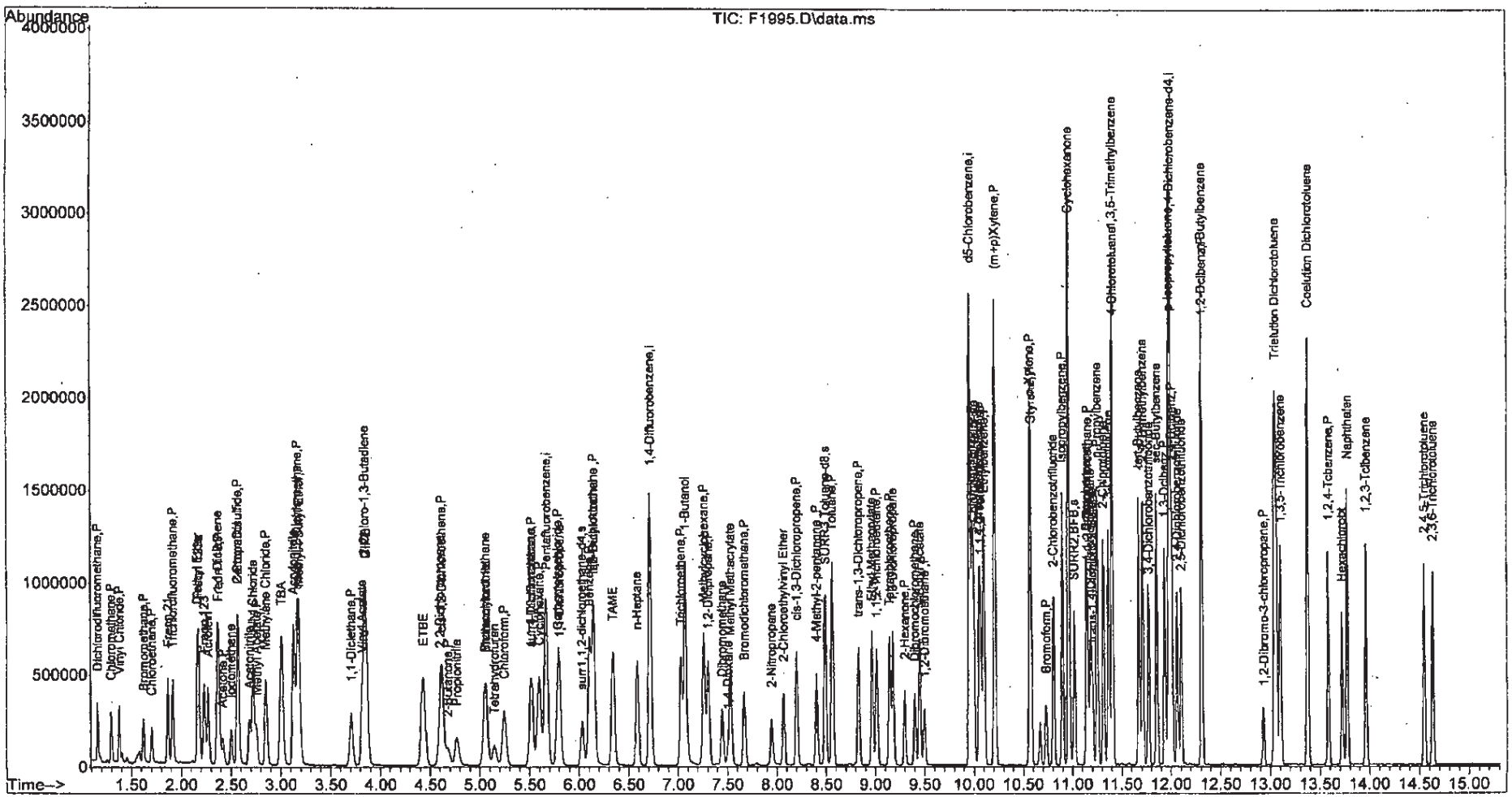
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.250	91	842880	23.71	ug/L	98
95)	2-Chlorotoluene	11.311	91	500430	21.95	ug/L	96
96)	3-Chlorotoluene	11.365	91	499779	21.25	ug/L	97
97)	4-Chlorotoluene	11.408	91	603008	22.64	ug/L	99
98)	1,3,5-Trimethylbenzene	11.402	105	581849	23.73	ug/L	97
99)	tert-Butylbenzene	11.670	119	487405	21.95	ug/L	98
100)	1,2,4-Trimethylbenzene	11.713	105	586360	22.84	ug/L	97
101)	3,4-Dichlorobenzotrifl...	11.774	214	173697	18.68	ug/L	99
102)	sec-Butylbenzene	11.853	105	732325	23.27	ug/L	98
103)	p-Isopropyltoluene	11.975	119	604973	23.03	ug/L	98
104)	1,3-Dclbenz	11.932	146	347391	21.34	ug/L	96
105)	1,4-Dclbenz	12.006	146	352481	20.44	ug/L	94
106)	2,4-Dichlorobenzotrifl...	12.060	214	168935	20.08	ug/L	97
107)	2,5-Dichlorobenzotrifl...	12.103	214	185969	20.14	ug/L	99
108)	n-Butylbenzene	12.304	91	595258	22.22	ug/L	100
109)	1,2-Dclbenz	12.310	146	341559	20.78	ug/L	99
110)	1,2-Dibromo-3-chloropr...	12.932	157	52002	19.63	ug/L	91
111)	Trielution Dichlorotol...	13.048	125	934852	64.01	ug/L	96
112)	1,3,5-Trichlorobenzene	13.103	180	266859	20.56	ug/L	93
113)	Coelution Dichlorotoluene	13.377	125	712896	44.48	ug/L	99
114)	1,2,4-Tcbenzene	13.584	180	267062	20.63	ug/L	95
115)	Hexachlorobt	13.719	225	110376	20.82	ug/L	96
116)	Naphthalen	13.773	128	848721	22.89	ug/L	98
117)	1,2,3-Tclbenzene	13.962	180	276673	21.24	ug/L	99
118)	2,4,5-Trichlorotoluene	14.548	159	216331	20.92	ug/L	92
119)	2,3,6-Trichlorotoluene	14.633	159	195924	21.52	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1995.D
Acq On : 10 Sep 2015 7:18 pm
Operator : F. Naegler
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 10 19:32:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1996.D
Acq On : 10 Sep 2015 7:42 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 09:19:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FN 9/11/15

KR 9/14/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	783952	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	1119978	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	995526	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	558318	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	370719	50.79	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.58%			
46) surr1,1,2-dichloroetha...	6.031	65	523952	52.81	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 105.62%			
64) SURR3,Toluene-d8	8.494	98	1380567	53.01	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.02%			
69) SURR2,BFB	11.018	95	554363	50.45	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	398542	59.50	ug/L	98
3) Chloromethane	1.294	50	488159	55.37	ug/L	99
4) Vinyl Chloride	1.379	62	433237	55.97	ug/L	96
5) Bromomethane	1.611	94	184251	42.11	ug/L	94
6) Chloroethane	1.696	64	256399	58.70	ug/L	94
7) Freon 21	1.867	67	699876	54.78	ug/L	95
8) Trichlorofluoromethane	1.910	101	559313	57.92	ug/L	97
9) Diethyl Ether	2.166	59	407833	53.10	ug/L	97
10) Freon 123a	2.172	67	472668	56.53	ug/L	93
11) Freon 123	2.233	83	507372	54.91	ug/L	98
12) Acrolein	2.269	56	647301	254.95	ug/L	96
13) 1,1-Diclethene	2.361	96	323598	50.98	ug/L	95
14) Freon 113	2.373	101	364986	53.10	ug/L	94
15) Acetone	2.416	43	324323	49.78	ug/L	97
16) 2-Propanol	2.574	45	1489723	1010.35	ug/L	92
17) Iodomethane	2.501	142	507212	72.17	ug/L	87
18) Carbon Disulfide	2.562	76	959340	51.77	ug/L	99
19) Acetonitrile	2.684	40	345083m	287.94	ug/L	
20) Allyl Chloride	2.727	76	204169	54.70	ug/L #	47
21) Methyl Acetate	2.757	43	640596	53.00	ug/L	98
22) Methylene Chloride	2.849	84	392936	50.60	ug/L	93
23) TBA	3.013	59	2043967	1002.22	ug/L	94
24) Acrylonitrile	3.129	53	1447765	264.60	ug/L	98
25) Methyl-t-Butyl Ether	3.184	73	1420034	53.27	ug/L	97
26) trans-1,2-Dichloroethene	3.166	96	358257	52.76	ug/L	96
27) 1,1-Diclethane	3.708	63	766323	55.71	ug/L	97
28) Vinyl Acetate	3.818	86	82497	57.72	ug/L #	84
29) DIPE	3.855	45	1748826	52.80	ug/L	94
30) 2-Chloro-1,3-Butadiene	3.842	53	858606	57.50	ug/L	89
31) ETBE	4.434	59	1487217	52.48	ug/L	95
32) 2,2-Dichloropropane	4.610	77	585758	54.88	ug/L	98
33) cis-1,2-Dichloroethene	4.617	96	411737	52.60	ug/L #	79
34) 2-Butanone	4.678	43	422093	47.82	ug/L	96
35) Propionitrile	4.769	54	591461	265.59	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1996.D
Acq On : 10 Sep 2015 7:42 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 09:19:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.056	130	264522	52.41	ug/L		93
37) Methacrylonitrile	5.056	67	239887	48.46	ug/L		97
38) Tetrahydrofuran	5.147	42	264296	48.81	ug/L		85
39) Chloroform	5.245	83	724398	54.47	ug/L		95
40) 1,1,1-Trichloroethane	5.519	97	635250	55.99	ug/L		94
42) Cyclohexane	5.598	41	534382	55.98	ug/L		88
44) Carbontetrachloride	5.787	121	164602	59.83	ug/L		79
45) 1,1-Dichloropropene	5.799	75	521995	54.37	ug/L		98
47) Benzene	6.104	78	1573816	56.22	ug/L		85
48) 1,2-Dichloroethane	6.147	62	713564	55.36	ug/L		99
49) Iso-Butyl Alcohol	6.147	43	1051115	1038.05	ug/L		91
50) TAME	6.342	73	1255850	53.23	ug/L		100
51) n-Heptane	6.586	43	702460	55.35	ug/L		95
52) 1-Butanol	7.080	56	1464303	2686.85	ug/L		92
53) Trichloroethene	7.031	130	440106	50.77	ug/L		97
54) Methylcyclohexane	7.262	55	602994	55.00	ug/L		88
55) 1,2-Diclpropane	7.305	63	454363	53.72	ug/L		98
56) Dibromomethane	7.445	93	280232	51.70	ug/L		94
57) 1,4-Dioxane	7.506	88	184352	943.26	ug/L		92
58) Methyl Methacrylate	7.531	69	378594	52.21	ug/L		95
59) Bromodichloromethane	7.671	83	550425	52.89	ug/L		97
60) 2-Nitropropane	7.945	41	383769	108.83	ug/L		91
61) 2-Chloroethylvinyl Ether	8.067	63	343435	53.84	ug/L		91
62) cis-1,3-Dichloropropene	8.201	75	654832	55.23	ug/L		99
63) 4-Methyl-2-pentanone	8.402	43	795125	51.87	ug/L		97
65) Toluene	8.561	91	1652772	55.34	ug/L		97
66) trans-1,3-Dichloropropene	8.829	75	616155	53.99	ug/L		99
67) Ethyl Methacrylate	8.969	69	673194	53.94	ug/L		97
68) 1,1,2-Trichloroethane	9.012	97	392040	52.90	ug/L	#	88
71) Tetrachloroethene	9.146	164	323140	53.13	ug/L		89
72) 2-Hexanone	9.299	43	621778	52.11	ug/L		94
73) 1,3-Dichloropropane	9.177	76	678620	52.28	ug/L		99
74) Dibromochloromethane	9.402	129	427065	54.34	ug/L		99
75) N-Butyl Acetate	9.451	43	1179936	57.42	ug/L		95
76) 1,2-Dibromoethane	9.500	107	425557	52.17	ug/L		98
77) 3-Chlorobenzotrifluoride	10.000	180	565855	47.73	ug/L		98
78) Chlorobenzene	9.981	112	1077322	53.84	ug/L		96
79) 4-Chlorobenzotrifluoride	10.055	180	503475	48.08	ug/L		97
80) 1,1,1,2-Tetrachloroethane	10.073	131	399900	54.87	ug/L		99
81) Ethylbenzene	10.103	106	573583	54.86	ug/L		97
82) (m+p)Xylene	10.213	106	1386918	110.16	ug/L		93
83) o-Xylene	10.567	106	678997	53.81	ug/L		94
84) Styrene	10.579	104	1173510	54.30	ug/L		98
85) Bromoform	10.731	173	321914	54.99	ug/L		95
86) 2-Chlorobenzotrifluoride	10.810	180	547414	47.68	ug/L		99
87) Isopropylbenzene	10.896	105	1772693	56.31	ug/L		97
88) Cyclohexanone	10.957	55	2550354	1101.80	ug/L		88
89) trans-1,4-Dichloro-2-B...	11.201	53	209416	54.34	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.152	83	558701	59.33	ug/L		95
92) Bromobenzene	11.140	156	476411	50.57	ug/L		91
93) 1,2,3-Trichloropropane	11.182	110	185268	49.82	ug/L	#	87

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1996.D
Acq On : 10 Sep 2015 7:42 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 09:19:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

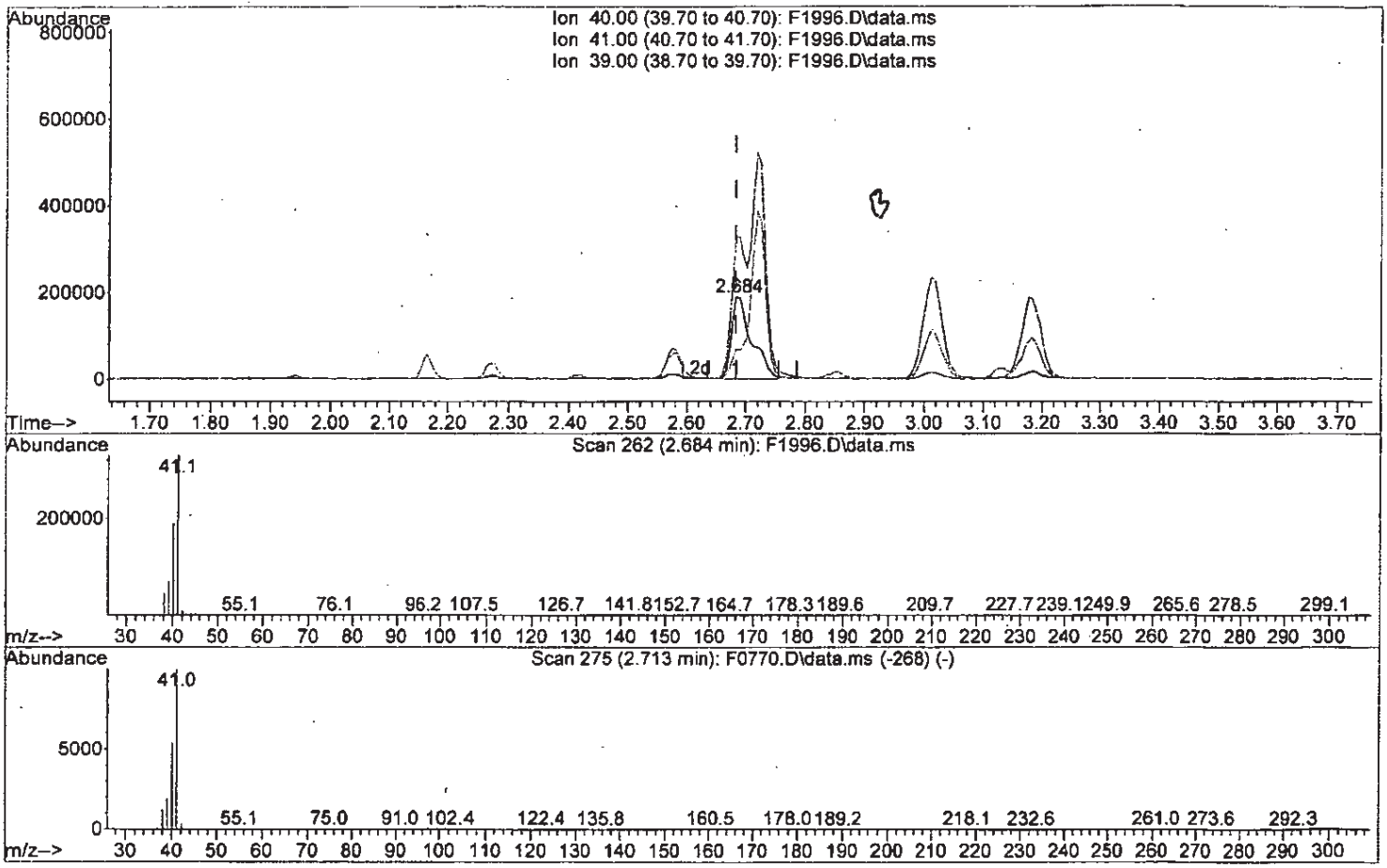
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.249	91	2160769	57.30	ug/L	96
95)	2-Chlorotoluene	11.310	91	1303371	53.89	ug/L	98
96)	3-Chlorotoluene	11.365	91	1240874	49.73	ug/L	99
97)	4-Chlorotoluene	11.408	91	1550083	54.86	ug/L	97
98)	1,3,5-Trimethylbenzene	11.402	105	1516028	58.28	ug/L	98
99)	tert-Butylbenzene	11.670	119	1288131	54.68	ug/L	98
100)	1,2,4-Trimethylbenzene	11.713	105	1534888	56.37	ug/L	96
101)	3,4-Dichlorobenzotrifl...	11.774	214	446871	45.30	ug/L	99
102)	sec-Butylbenzene	11.853	105	1910238	57.22	ug/L	96
103)	p-Isopropyltoluene	11.975	119	1583655	56.84	ug/L	95
104)	1,3-Dclbenz	11.932	146	892171	51.67	ug/L	97
105)	1,4-Dclbenz	12.005	146	921271	50.36	ug/L	98
106)	2,4-Dichlorobenzotrifl...	12.060	214	405137	45.40	ug/L	98
107)	2,5-Dichlorobenzotrifl...	12.103	214	468105	47.79	ug/L	97
108)	n-Butylbenzene	12.304	91	1589793	55.95	ug/L	98
109)	1,2-Dclbenz	12.310	146	905529	51.95	ug/L	96
110)	1,2-Dibromo-3-chloropr...	12.932	157	154510	55.00	ug/L	98
111)	Trielution Dichlorotol...	13.048	125	2349468	151.65	ug/L	96
112)	1,3,5-Trichlorobenzene	13.103	180	678158	49.26	ug/L	99
113)	Coelution Dichlorotoluene	13.377	125	1787438	105.14	ug/L	96
114)	1,2,4-Tcbenzene	13.584	180	714996	52.06	ug/L	97
115)	Hexachlorobt	13.718	225	314793	55.97	ug/L	99
116)	Naphthalen	13.773	128	2140524	54.42	ug/L	97
117)	1,2,3-Tclbenzene	13.962	180	729669	52.82	ug/L	99
118)	2,4,5-Trichlorotoluene	14.548	159	527867	48.12	ug/L	94
119)	2,3,6-Trichlorotoluene	14.633	159	473717	49.06	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1996.D
Acq On : 10 Sep 2015 7:42 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 10 19:57:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1996.D\data.ms

(19) Acetonitrile

2.684min (-0.000) 382.90 ug/L

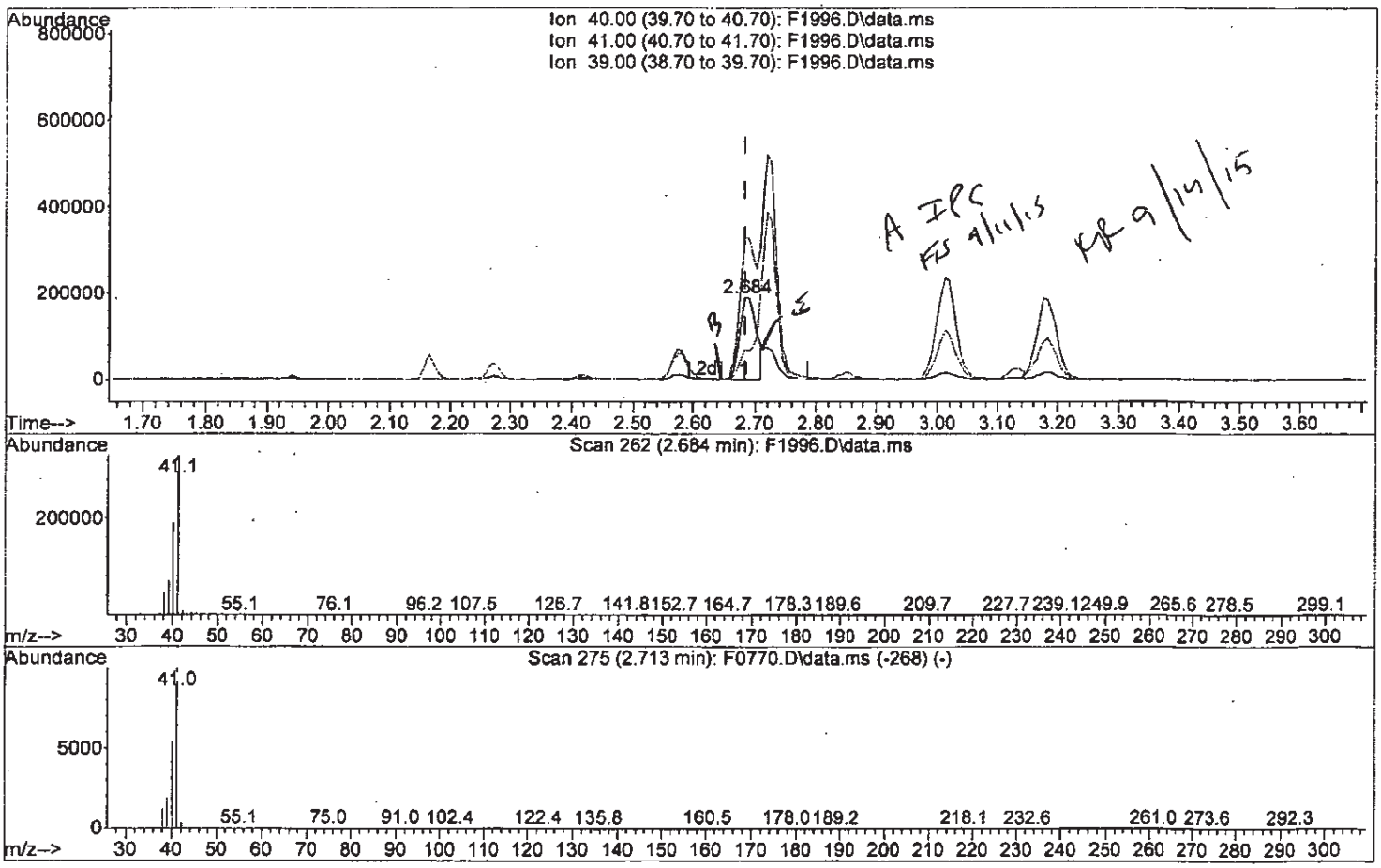
response 458880

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	173.98
39.00	35.30	36.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1996.D
Acq On : 10 Sep 2015 7:42 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 10 19:57:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1996.D\data.ms

(19) Acetonitrile

2.684min (-0.000) 287.94 ug/L m

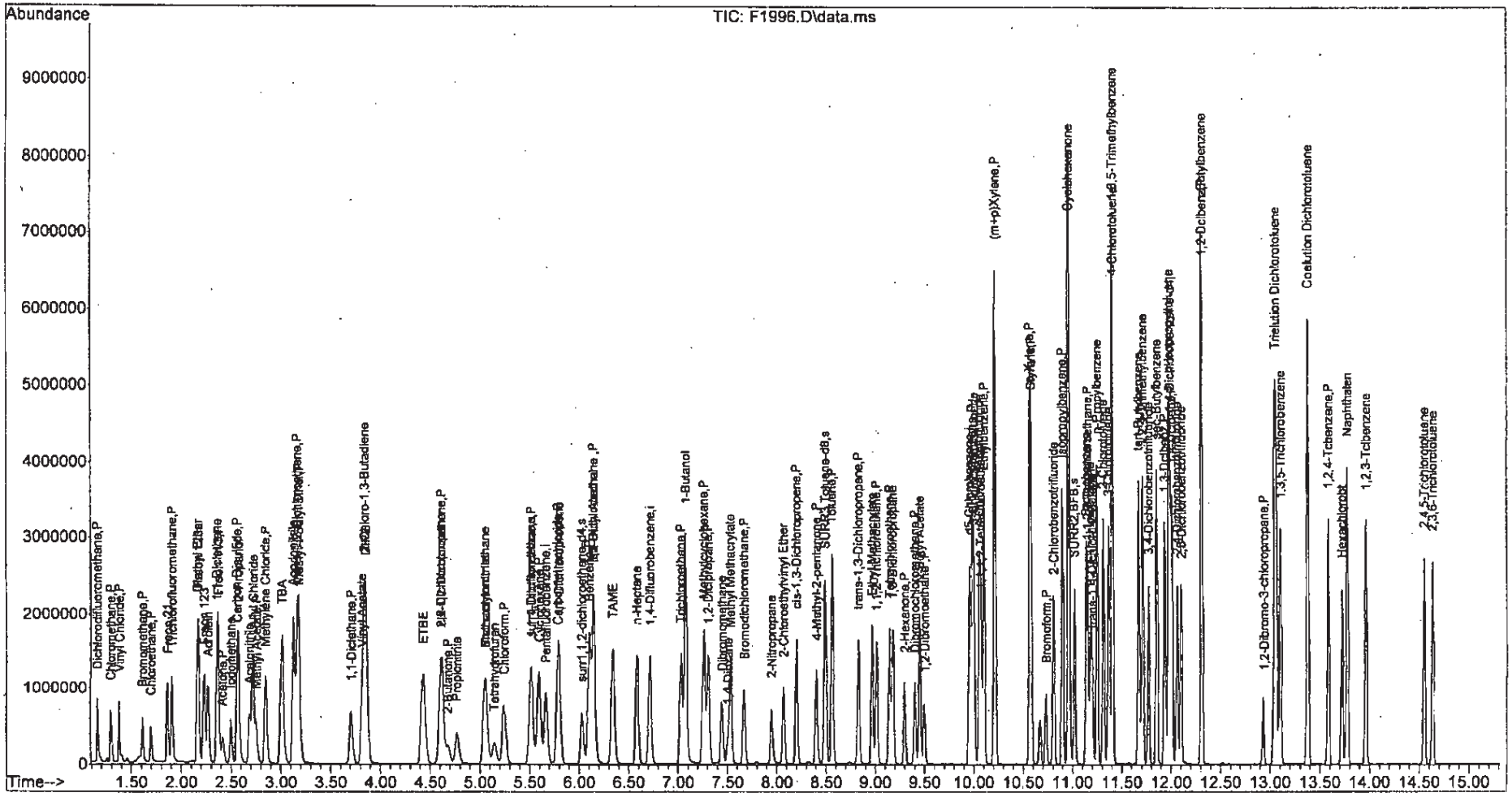
response 345083

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	173.98
39.00	35.30	36.40
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1996.D
Acq On : 10 Sep 2015 7:42 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 09:19:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 09:25:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FD 9/11/15 PF 9/14/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	819279	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	1159307	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	1026873	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	608298	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	751121	99.43	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 198.86%#				
46) surr1,1,2-dichloroetha...	6.031	65	1063065	103.52	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 207.04%#				
64) SURR3,Toluene-d8	8.494	98	2707005	100.41	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 200.82%#				
69) SURR2,BFB	11.018	95	1172559	103.08	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 206.16%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	754181m	107.74	ug/L		
3) Chloromethane	1.294	50	953834	103.52	ug/L		98
4) Vinyl Chloride	1.380	62	833818	103.08	ug/L		97
5) Bromomethane	1.611	94	286352	62.62	ug/L		100
6) Chloroethane	1.690	64	490023	107.34	ug/L		93
7) Freon 21	1.861	67	1383825	103.64	ug/L		94
8) Trichlorofluoromethane	1.910	101	1057214	104.75	ug/L		99
9) Diethyl Ether	2.166	59	819834	102.15	ug/L		97
10) Freon 123a	2.172	67	916498	104.89	ug/L		97
11) Freon 123	2.233	83	1005264	104.10	ug/L		96
12) Acrolein	2.276	56	1272526	479.59	ug/L		93
13) 1,1-Diclethene	2.361	96	638980	96.33	ug/L		98
14) Freon 113	2.367	101	698194	97.19	ug/L		95
15) Acetone	2.422	43	671100	98.57	ug/L		97
16) 2-Propanol	2.593	45	3101511	2012.78	ug/L		89
17) Iodomethane	2.501	142	1033846	140.77	ug/L		91
18) Carbon Disulfide	2.562	76	1974453	101.96	ug/L		99
19) Acetonitrile	2.690	40	729517m	582.47	ug/L		
20) Allyl Chloride	2.721	76	402512	103.19	ug/L	#	29
21) Methyl Acetate	2.757	43	1297815	102.75	ug/L		97
22) Methylene Chloride	2.849	84	784618	96.69	ug/L		93
23) TBA	3.032	59	4263889	2000.56	ug/L		94
24) Acrylonitrile	3.135	53	2832415	495.34	ug/L		94
25) Methyl-t-Butyl Ether	3.184	73	2789846	100.15	ug/L		96
26) trans-1,2-Dichloroethene	3.166	96	714395	100.66	ug/L		92
27) 1,1-Diclethane	3.708	63	1501163	104.42	ug/L		96
28) Vinyl Acetate	3.818	86	157208	105.26	ug/L	#	87
29) DIPE	3.855	45	3448447	99.63	ug/L		90
30) 2-Chloro-1,3-Butadiene	3.842	53	1725824	110.59	ug/L		88
31) ETBE	4.434	59	2921713	98.66	ug/L		95
32) 2,2-Dichloropropane	4.611	77	1128313	101.16	ug/L		95
33) cis-1,2-Dichloroethene	4.623	96	802597	98.11	ug/L	#	83
34) 2-Butanone	4.684	43	890882	96.58	ug/L		95
35) Propionitrile	4.775	54	1206214	518.28	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 09:25:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.050	130	532322	100.92	ug/L		97
37) Methacrylonitrile	5.068	67	494565	95.59	ug/L		91
38) Tetrahydrofuran	5.147	42	544776	96.28	ug/L		87
39) Chloroform	5.245	83	1428225	102.77	ug/L		98
40) 1,1,1-Trichloroethane	5.519	97	1251678	105.57	ug/L		97
42) Cyclohexane	5.598	41	1082091	109.51	ug/L		87
44) Carbontetrachloride	5.787	121	327709	115.07	ug/L		82
45) 1,1-Dichloropropene	5.799	75	1024594	103.11	ug/L		99
47) Benzene	6.104	78	3054975	105.42	ug/L		86
48) 1,2-Dichloroethane	6.147	62	1393223	104.41	ug/L		96
49) Iso-Butyl Alcohol	6.159	43	2256783	2153.12	ug/L		91
50) TAME	6.342	73	2473785	101.30	ug/L		96
51) n-Heptane	6.586	43	1325139	100.87	ug/L		95
52) 1-Butanol	7.086	56	3132749	5553.28	ug/L		91
53) Trichloroethene	7.031	130	860401	95.89	ug/L		96
54) Methylcyclohexane	7.263	55	1188902	104.77	ug/L		90
55) 1,2-Diclpropane	7.305	63	894371	102.15	ug/L		95
56) Dibromomethane	7.445	93	548354	97.74	ug/L		93
57) 1,4-Dioxane	7.506	88	395442	1954.68	ug/L		95
58) Methyl Methacrylate	7.531	69	769058	102.46	ug/L		95
59) Bromodichloromethane	7.671	83	1087080	100.91	ug/L		99
60) 2-Nitropropane	7.945	41	837860	229.55	ug/L		97
61) 2-Chloroethylvinyl Ether	8.067	63	692199	104.84	ug/L		98
62) cis-1,3-Dichloropropene	8.201	75	1305602	106.37	ug/L		99
63) 4-Methyl-2-pentanone	8.403	43	1669554	105.23	ug/L		98
65) Toluene	8.561	91	3188620	103.14	ug/L		95
66) trans-1,3-Dichloropropene	8.829	75	1263111	106.93	ug/L		97
67) Ethyl Methacrylate	8.970	69	1348233	104.36	ug/L		100
68) 1,1,2-Trichloroethane	9.012	97	774588	100.96	ug/L		88
71) Tetrachloroethene	9.146	164	627936	100.08	ug/L		93
72) 2-Hexanone	9.299	43	1323336	107.52	ug/L		96
73) 1,3-Dichloropropane	9.183	76	1351010	100.90	ug/L		96
74) Dibromochloromethane	9.402	129	875690	108.02	ug/L		97
75) N-Butyl Acetate	9.451	43	2401296	113.30	ug/L		97
76) 1,2-Dibromoethane	9.500	107	846798	100.64	ug/L		99
77) 3-Chlorobenzotrifluoride	10.000	180	1181165	96.60	ug/L		98
78) Chlorobenzene	9.981	112	2061708	99.89	ug/L		95
79) 4-Chlorobenzotrifluoride	10.055	180	1050038	97.21	ug/L		97
80) 1,1,1,2-Tetrachloroethane	10.073	131	809603	107.70	ug/L		99
81) Ethylbenzene	10.103	106	1124684	104.28	ug/L	#	83
82) (m+p)Xylene	10.213	106	2657078	204.61	ug/L	#	81
83) o-Xylene	10.567	106	1346082	103.41	ug/L		100
84) Styrene	10.579	104	2325901	104.33	ug/L		95
85) Bromoform	10.731	173	672767	111.41	ug/L		99
86) 2-Chlorobenzotrifluoride	10.811	180	1194615	100.87	ug/L		99
87) Isopropylbenzene	10.896	105	3320493	102.26	ug/L		93
88) Cyclohexanone	10.963	55	4979234	2085.46	ug/L		82
89) trans-1,4-Dichloro-2-B...	11.201	53	475802	119.69	ug/L		99
91) 1,1,2,2-Tetrachloroethane	11.158	83	1195295	116.51	ug/L		98
92) Bromobenzene	11.140	156	951065	92.66	ug/L	#	88
93) 1,2,3-Trichloropropane	11.189	110	383810	94.73	ug/L	#	90

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 09:25:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

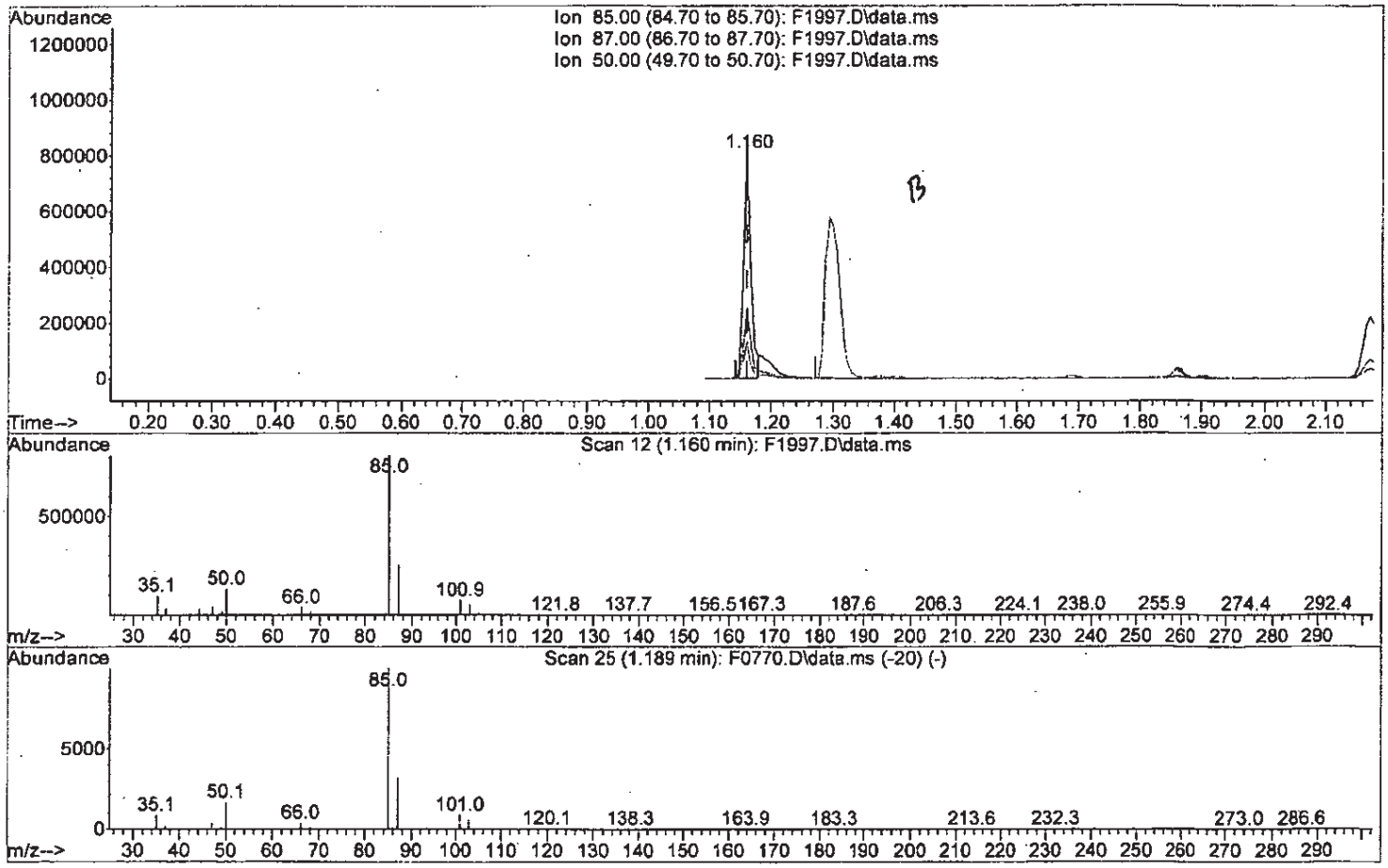
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.250	91	3969020	96.60	ug/L	93
95)	2-Chlorotoluene	11.310	91	2542190	96.47	ug/L	97
96)	3-Chlorotoluene	11.365	91	2614762	96.19	ug/L	98
97)	4-Chlorotoluene	11.408	91	2988763	97.08	ug/L	94
98)	1,3,5-Trimethylbenzene	11.402	105	2907285	102.59	ug/L	93
99)	tert-Butylbenzene	11.670	119	2513584	97.93	ug/L	99
100)	1,2,4-Trimethylbenzene	11.713	105	2953143	99.54	ug/L	91
101)	3,4-Dichlorobenzotrifl...	11.774	214	947940	88.19	ug/L	98
102)	sec-Butylbenzene	11.853	105	3589816	98.69	ug/L	92
103)	p-Isopropyltoluene	11.975	119	3073282	101.24	ug/L	90
104)	1,3-Dclbenz	11.938	146	1831808	97.38	ug/L	99
105)	1,4-Dclbenz	12.012	146	1871581	93.90	ug/L	96
106)	2,4-Dichlorobenzotrifl...	12.060	214	914039	94.01	ug/L	100
107)	2,5-Dichlorobenzotrifl...	12.103	214	1026682	96.19	ug/L	97
108)	n-Butylbenzene	12.304	91	3077274	99.40	ug/L	95
109)	1,2-Dclbenz	12.310	146	1851897	97.51	ug/L	96
110)	1,2-Dibromo-3-chloropr...	12.926	157	336307	109.87	ug/L	89
111)	Trielution Dichlorotol...	13.048	125	4920249	291.50	ug/L	93
112)	1,3,5-Trichlorobenzene	13.103	180	1478842	98.59	ug/L	98
113)	Coelution Dichlorotoluene	13.377	125	3593549	194.01	ug/L	89
114)	1,2,4-Tcbenzene	13.584	180	1434319	95.86	ug/L	100
115)	Hexachlorobt	13.719	225	630018	102.82	ug/L	95
116)	Naphthalen	13.773	128	4039019	94.25	ug/L	91
117)	1,2,3-Tclbenzene	13.962	180	1454451	96.63	ug/L	99
118)	2,4,5-Trichlorotoluene	14.548	159	1129342	94.50	ug/L	96
119)	2,3,6-Trichlorotoluene	14.633	159	985816	93.71	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 20:21:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1997.D\data.ms

(2) Dichlorodifluoromethane (P)

1.160min (+0.000) 90.59 ug/L

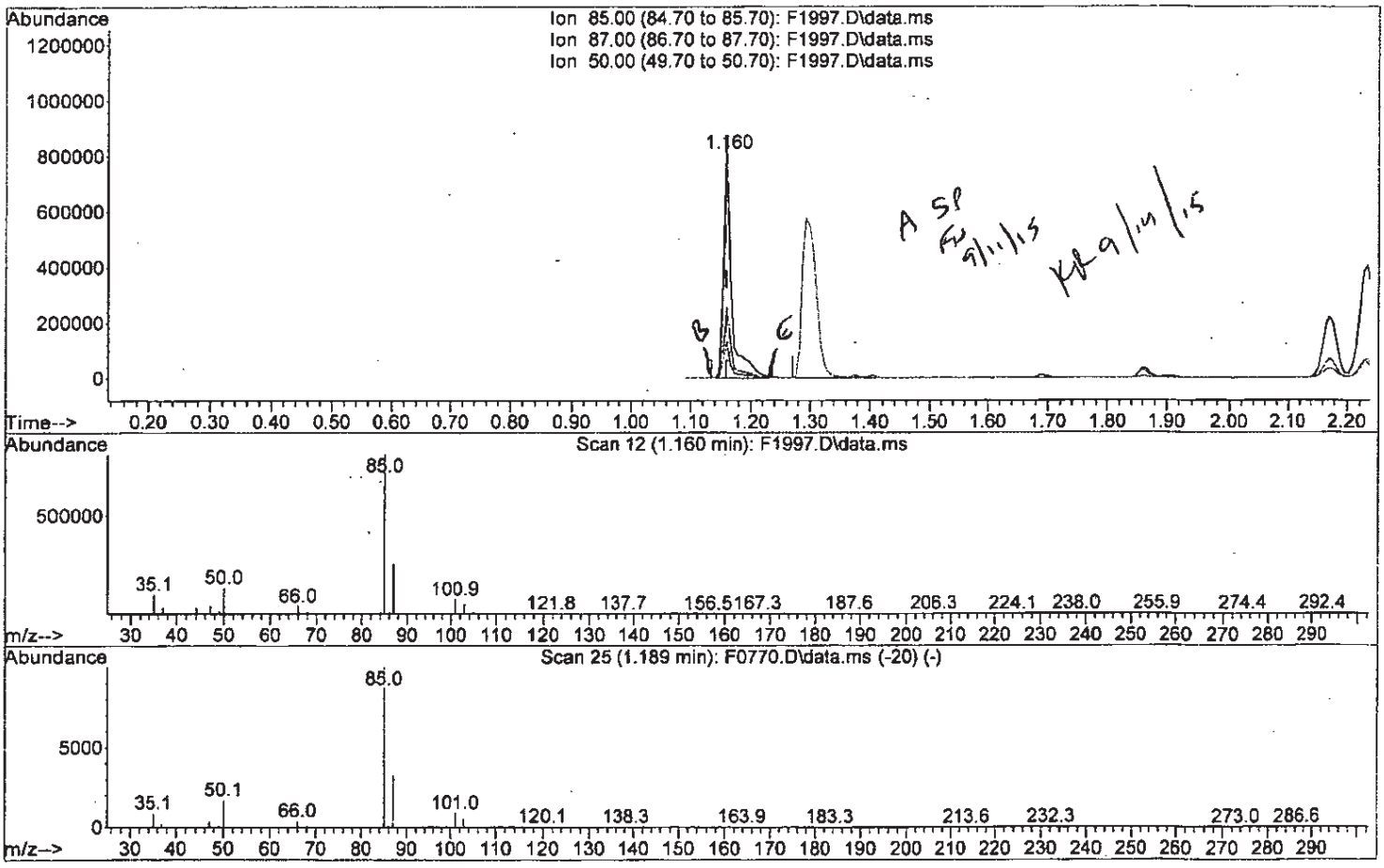
response 634138

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	31.13
50.00	17.40	16.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 20:21:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1997.D\data.ms

(2) Dichlorodifluoromethane (P)

1.160min (+0.000) 107.74 ug/L m

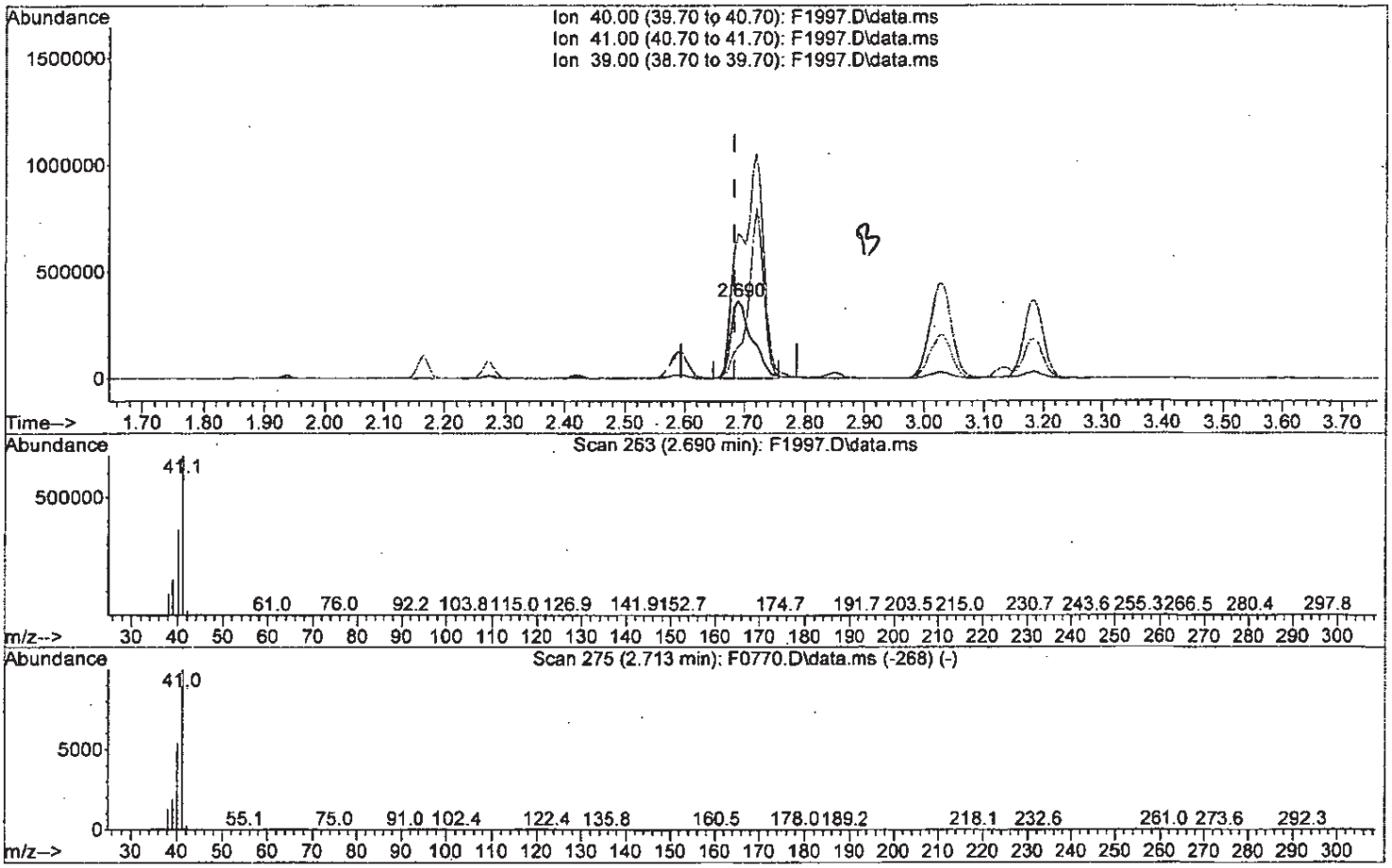
response 754181

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	31.13
50.00	17.40	16.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 20:21:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1997.D\data.ms

(19) Acetonitrile

2.690min (+0.006) 714.60 ug/L

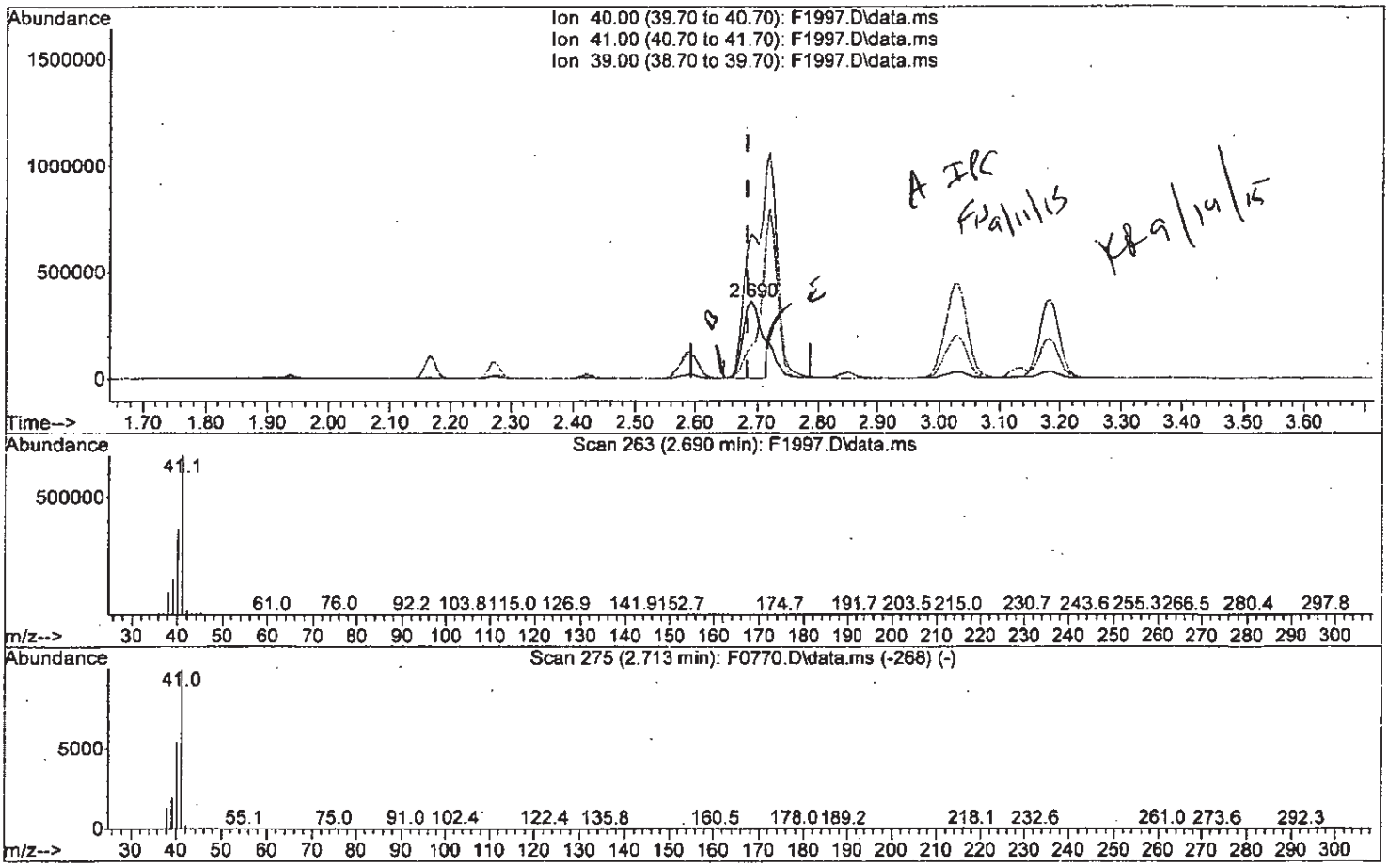
response 894996

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	187.02
39.00	35.30	41.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 20:21:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1997.D\data.ms

(19) Acetonitrile

2.690min (+0.006) 582.47 ug/L m

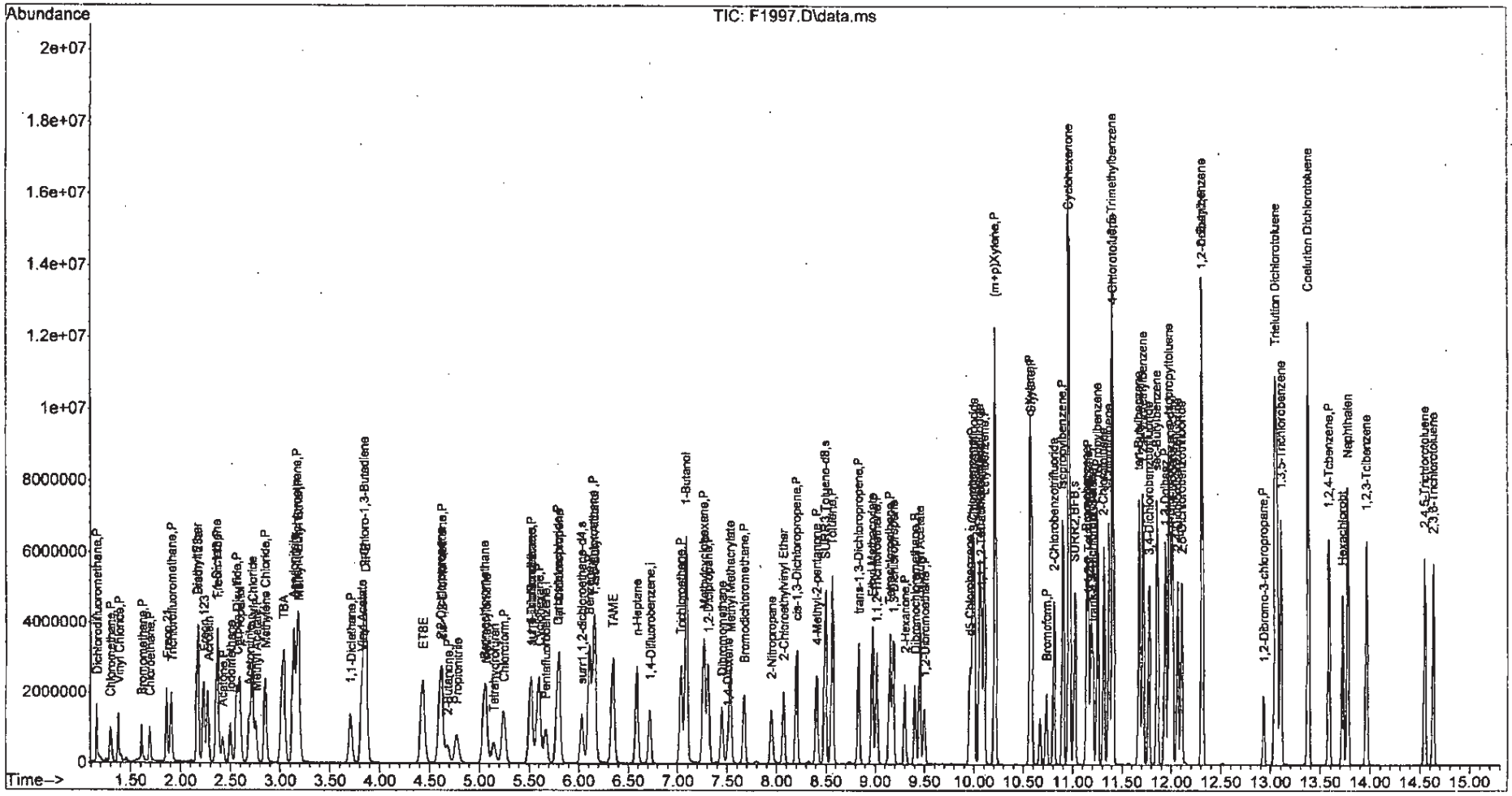
response 729517

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	187.02
39.00	35.30	41.33
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 09:25:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



8709

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1998.D
Acq On : 10 Sep 2015 8:31 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 11 09:27:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FN 9/11/15

LB 9/14/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	771381	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	1101623	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	1012343	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	632461	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	1418787	197.64	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 395.28%#			
46) surr1,1,2-dichloroetha...	6.031	65	1923070	197.07	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 394.14%#			
64) SURR3,Toluene-d8	8.494	98	4703963	183.63	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 367.26%#			
69) SURR2,BFB	11.024	95	2261186	209.20	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 418.40%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	1045655	158.65	ug/L	97
3) Chloromethane	1.294	50	1311524	151.17	ug/L	98
4) Vinyl Chloride	1.379	62	1155173	151.68	ug/L	99
5) Bromomethane	1.611	94	385146	89.45	ug/L	99
6) Chloroethane	1.684	64	623179	144.98	ug/L	94
7) Freon 21	1.861	67	2013337	160.15	ug/L	95
8) Trichlorofluoromethane	1.898	101	1437813	151.31	ug/L	98
9) Diethyl Ether	2.166	59	1125182	148.90	ug/L	96
10) Freon 123a	2.172	67	1306271	158.78	ug/L	96
11) Freon 123	2.233	83	1445724	159.01	ug/L	96
12) Acrolein	2.276	56	1854905	742.49	ug/L	94
13) 1,1-Diclethene	2.361	96	871483	139.53	ug/L	96
14) Freon 113	2.367	101	973256	143.90	ug/L	97
15) Acetone	2.422	43	959077	149.62	ug/L	96
16) 2-Propanol	2.617	45	4829152	3328.57	ug/L	88
17) Iodomethane	2.495	142	1470781	212.69	ug/L	90
18) Carbon Disulfide	2.556	76	2778778	152.40	ug/L	99
19) Acetonitrile	2.696	40	949112m	804.86	ug/L	
20) Allyl Chloride	2.721	76	559148	152.24	ug/L #	19
21) Methyl Acetate	2.757	43	1816104	152.71	ug/L	99
22) Methylene Chloride	2.849	84	1089154	142.55	ug/L	91
23) TBA	3.056	59	6719115	3348.27	ug/L	91
24) Acrylonitrile	3.135	53	4064020	754.86	ug/L	96
25) Methyl-t-Butyl Ether	3.184	73	3882969	148.04	ug/L	96
26) trans-1,2-Dichloroethene	3.166	96	975209	145.95	ug/L	90
27) 1,1-Diclethane	3.702	63	2042778	150.91	ug/L	97
28) Vinyl Acetate	3.818	86	245323	174.46	ug/L #	76
29) DIPE	3.861	45	4964965	152.36	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.836	53	2459058	167.36	ug/L	91
31) ETBE	4.434	59	4192028	150.35	ug/L	95
32) 2,2-Dichloropropane	4.610	77	1528371	145.53	ug/L	99
33) cis-1,2-Dichloroethene	4.623	96	1113427	144.55	ug/L #	79
34) 2-Butanone	4.690	43	1319101	151.89	ug/L	93
35) Propionitrile	4.781	54	1845550	842.22	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1998.D
Acq On : 10 Sep 2015 8:31 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 11 09:27:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.049	130	744694	149.95	ug/L		94
37) Methacrylonitrile	5.068	67	732531	150.38	ug/L		96
38) Tetrahydrofuran	5.147	42	828454	155.51	ug/L		85
39) Chloroform	5.244	83	1972014	150.71	ug/L		96
40) 1,1,1-Trichloroethane	5.519	97	1696294	151.96	ug/L		97
42) Cyclohexane	5.598	41	1542893	164.32	ug/L		87
44) Carbontetrachloride	5.787	121	439946	162.57	ug/L		80
45) 1,1-Dichloropropene	5.799	75	1394463	147.68	ug/L		99
47) Benzene	6.104	78	4105343	149.09	ug/L		87
48) 1,2-Dichloroethane	6.147	62	1912760	150.86	ug/L		98
49) Iso-Butyl Alcohol	6.177	43	3642485	3657.15	ug/L		93
50) TAME	6.348	73	3599127	155.09	ug/L		97
51) n-Heptane	6.586	43	1771713	141.93	ug/L		95
52) 1-Butanol	7.098	56	4838264	9025.66	ug/L		87
53) Trichloroethene	7.031	130	1132248	132.79	ug/L		98
54) Methylcyclohexane	7.262	55	1725340	160.00	ug/L		91
55) 1,2-Diclpropane	7.305	63	1229034	147.73	ug/L		97
56) Dibromomethane	7.445	93	783527	146.97	ug/L		93
57) 1,4-Dioxane	7.512	88	640573	3332.17	ug/L		96
58) Methyl Methacrylate	7.537	69	1136161	159.30	ug/L		98
59) Bromodichloromethane	7.671	83	1546376	151.06	ug/L		99
60) 2-Nitropropane	7.951	41	1322621	381.33	ug/L		99
61) 2-Chloroethylvinyl Ether	8.073	63	1007770	160.63	ug/L		89
62) cis-1,3-Dichloropropene	8.201	75	1848134	158.46	ug/L		99
63) 4-Methyl-2-pentanone	8.408	43	2583625	171.37	ug/L		98
65) Toluene	8.567	91	4239886	144.33	ug/L		94
66) trans-1,3-Dichloropropene	8.829	75	1809908	161.25	ug/L		97
67) Ethyl Methacrylate	8.969	69	2019940	164.54	ug/L		99
68) 1,1,2-Trichloroethane	9.012	97	1129212	154.90	ug/L		90
71) Tetrachloroethene	9.146	164	870291	140.70	ug/L		93
72) 2-Hexanone	9.299	43	2079669	171.39	ug/L		93
73) 1,3-Dichloropropane	9.183	76	1936295	146.68	ug/L		98
74) Dibromochloromethane	9.402	129	1285610	160.86	ug/L		100
75) N-Butyl Acetate	9.451	43	3545778	169.70	ug/L		97
76) 1,2-Dibromoethane	9.500	107	1231170	148.41	ug/L		100
77) 3-Chlorobenzotrifluoride	10.000	180	1756902	145.75	ug/L		95
78) Chlorobenzene	9.987	112	2901273	142.58	ug/L		96
79) 4-Chlorobenzotrifluoride	10.054	180	1584051	148.76	ug/L		97
80) 1,1,1,2-Tetrachloroethane	10.073	131	1157483	156.19	ug/L		95
81) Ethylbenzene	10.103	106	1593248	149.84	ug/L	#	72
82) (m+p)Xylene	10.213	106	3623942	283.06	ug/L	#	71
83) o-Xylene	10.567	106	1909054	148.77	ug/L		88
84) Styrene	10.579	104	3269040	148.74	ug/L		90
85) Bromoform	10.731	173	1067256	179.28	ug/L		100
86) 2-Chlorobenzotrifluoride	10.810	180	1835272	157.19	ug/L		99
87) Isopropylbenzene	10.902	105	4501352	140.61	ug/L		90
88) Cyclohexanone	10.963	55	6468725	2748.19	ug/L		80
89) trans-1,4-Dichloro-2-B...	11.207	53	747087	190.63	ug/L		90
91) 1,1,2,2-Tetrachloroethane	11.158	83	1886754	176.88	ug/L		97
92) Bromobenzene	11.146	156	1402189	131.39	ug/L		98
93) 1,2,3-Trichloropropane	11.188	110	607914	144.31	ug/L	#	87

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1998.D
Acq On : 10 Sep 2015 8:31 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 11 09:27:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

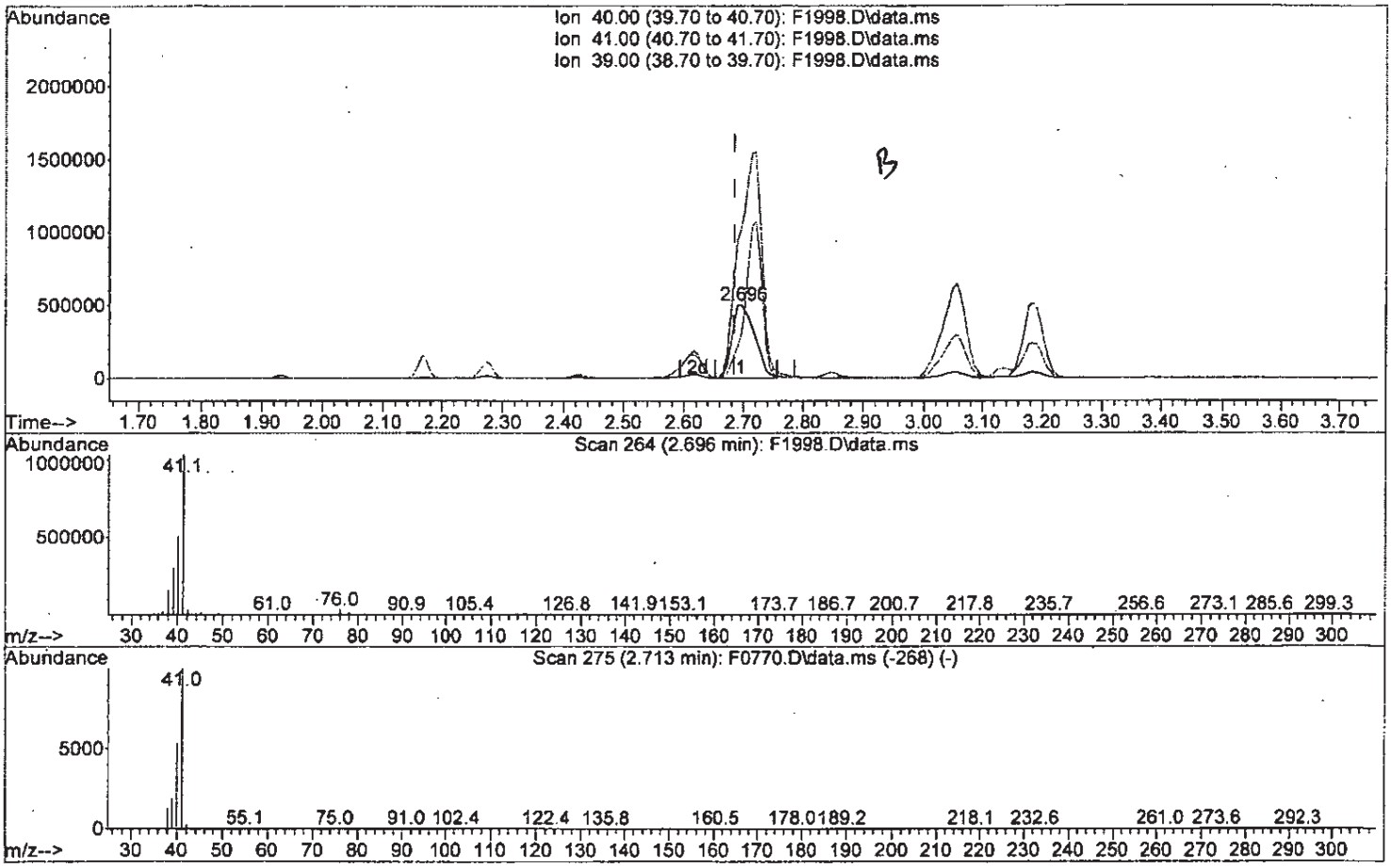
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.249	91	5169280	121.01	ug/L	84
95)	2-Chlorotoluene	11.316	91	3554387	129.73	ug/L	93
96)	3-Chlorotoluene	11.365	91	3786113	133.96	ug/L	92
97)	4-Chlorotoluene	11.408	91	4179494	130.58	ug/L	88
98)	1,3,5-Trimethylbenzene	11.402	105	4001796	135.81	ug/L	88
99)	tert-Butylbenzene	11.676	119	3533575	132.41	ug/L	94
100)	1,2,4-Trimethylbenzene	11.713	105	4077491	132.19	ug/L	83
101)	3,4-Dichlorobenzotrifl...	11.774	214	1506282	134.78	ug/L	98
102)	sec-Butylbenzene	11.853	105	4840318	127.98	ug/L	86
103)	p-Isopropyltoluene	11.975	119	4250381	134.67	ug/L	83
104)	1,3-Dclbenz	11.938	146	2672969	136.67	ug/L	94
105)	1,4-Dclbenz	12.011	146	2767250	133.53	ug/L	96
106)	2,4-Dichlorobenzotrifl...	12.060	214	1412381	139.72	ug/L	99
107)	2,5-Dichlorobenzotrifl...	12.103	214	1603668	144.51	ug/L	98
108)	n-Butylbenzene	12.304	91	4224611	131.24	ug/L	89
109)	1,2-Dclbenz	12.310	146	2684977	135.97	ug/L	91
110)	1,2-Dibromo-3-chloropr...	12.932	157	536299	168.52	ug/L	95
111)	Trielution Dichlorotol...	13.054	125	7143568	407.04	ug/L	84
112)	1,3,5-Trichlorobenzene	13.103	180	2219721	142.33	ug/L	96
113)	Coelution Dichlorotoluene	13.377	125	5017053	260.51	ug/L	79
114)	1,2,4-Tcbenzene	13.584	180	2136171	137.31	ug/L	99
115)	Hexachlorobt	13.724	225	898327	141.01	ug/L	97
116)	Naphthalen	13.773	128	5420905	121.66	ug/L	83
117)	1,2,3-Tclbenzene	13.962	180	2141662	136.86	ug/L	98
118)	2,4,5-Trichlorotoluene	14.547	159	1703501	137.10	ug/L	96
119)	2,3,6-Trichlorotoluene	14.633	159	1495317	136.72	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1998.D
Acq On : 10 Sep 2015 8:31 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 20:45:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1998.D\data.ms

(19) Acetonitrile

2.696min (+0.012) 1126.05 ug/L

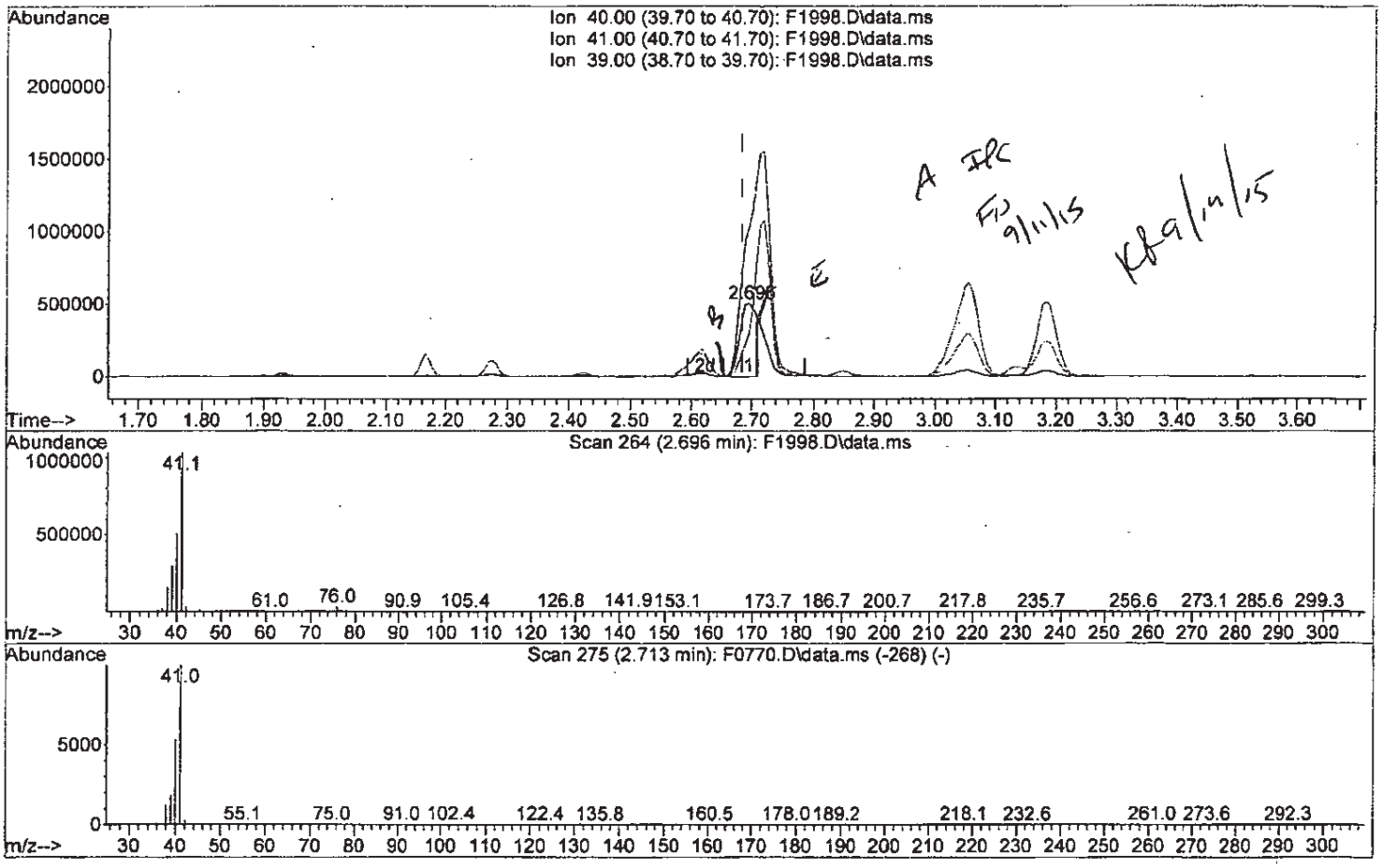
response 1327870

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	205.00
39.00	35.30	59.32#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1998.D
Acq On : 10 Sep 2015 8:31 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 20:45:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1998.D\data.ms

(19) Acetonitrile

2.696min (+0.012) 804.86 ug/L m

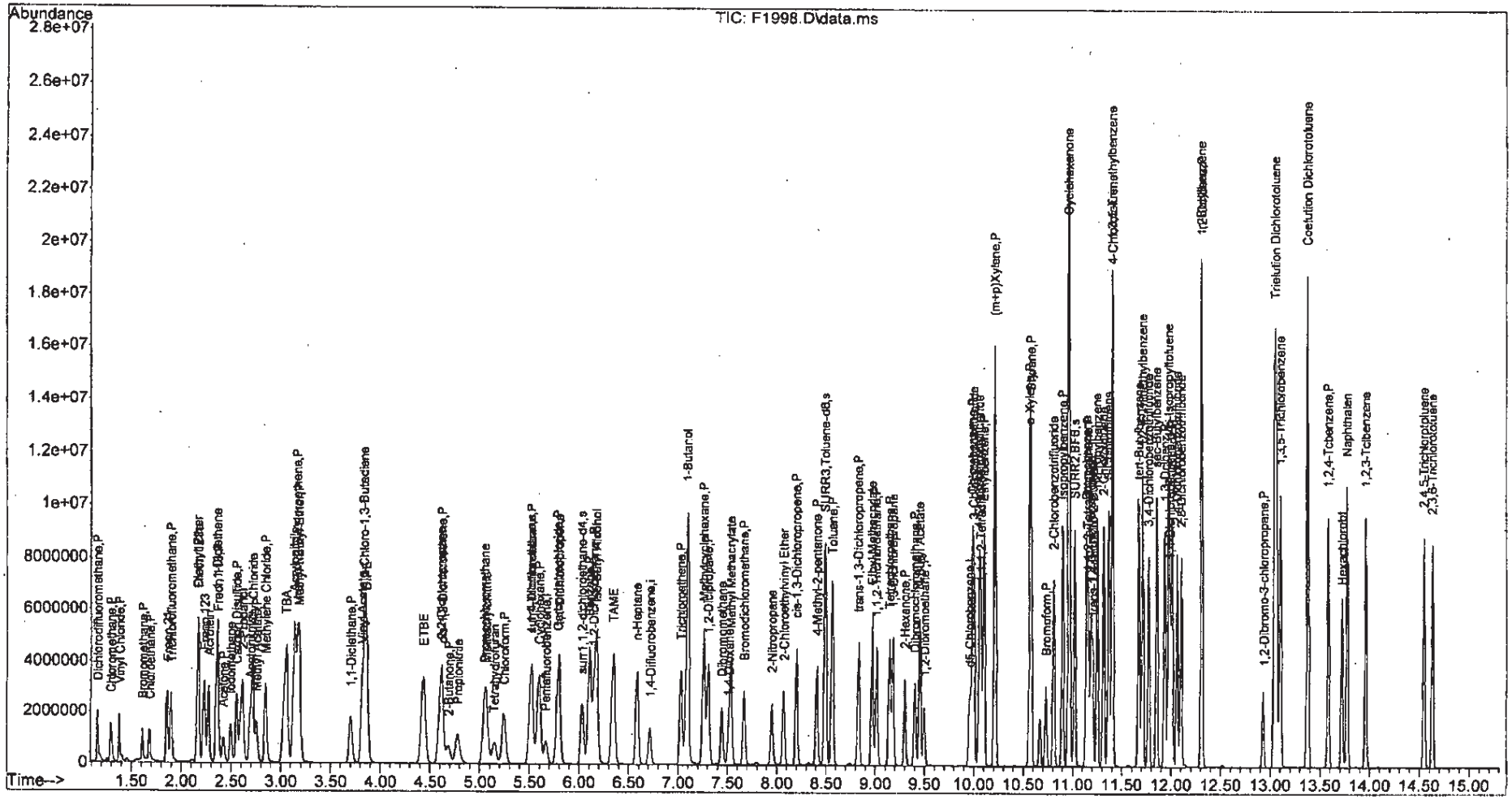
response 949112

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	205.00
39.00	35.30	59.32#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1998.D
Acq On : 10 Sep 2015 8:31 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 11 09:27:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 11 09:31:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FN 9/11/15
KB 9/14/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	844953	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	1200598	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	1072720	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	639567	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	397572	50.82	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.64%				
46) surr1,1,2-dichloroetha...	6.031	65	542203	50.98	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.96%				
64) SURR3,Toluene-d8	8.494	98	1435472	51.42	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.84%				
69) SURR2,BFB	11.024	95	616420	52.33	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.66%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	1471248	203.79	ug/L		97
3) Chloromethane	1.294	50	1857909	195.51	ug/L		98
4) Vinyl Chloride	1.379	62	1622354	194.47	ug/L		100
5) Bromomethane	1.611	94	565776	119.97	ug/L		99
6) Chloroethane	1.690	64	976581	207.42	ug/L		93
7) Freon 21	1.861	67	2781927	202.02	ug/L		92
8) Trichlorofluoromethane	1.904	101	2093821	201.16	ug/L		98
9) Diethyl Ether	2.166	59	1634299	197.44	ug/L		97
10) Freon 123a	2.172	67	1887234	209.43	ug/L		98
11) Freon 123	2.233	83	2063198	207.16	ug/L		98
12) Acrolein	2.276	56	2520828	921.18	ug/L		94
13) 1,1-Diclethene	2.361	96	1293498	189.07	ug/L		95
14) Freon 113	2.373	101	1445631	195.13	ug/L		96
15) Acetone	2.422	43	1366818	194.66	ug/L		96
16) 2-Propanol	2.599	45	6243983	3929.02	ug/L		86
17) Iodomethane	2.501	142	2236401	295.25	ug/L		88
18) Carbon Disulfide	2.562	76	3916346	196.09	ug/L		98
19) Acetonitrile	2.690	40	1527767m	1182.76	ug/L		
20) Allyl Chloride	2.721	76	821169	204.11	ug/L	#	34
21) Methyl Acetate	2.757	43	2606427	200.08	ug/L		97
22) Methylene Chloride	2.849	84	1567636	187.31	ug/L		93
23) TBA	3.038	59	8528859	3880.03	ug/L		88
24) Acrylonitrile	3.135	53	5479288	929.12	ug/L		93
25) Methyl-t-Butyl Ether	3.184	73	5443619	189.47	ug/L		99
26) trans-1,2-Dichloroethene	3.166	96	1435583	196.14	ug/L		92
27) 1,1-Diclethane	3.708	63	3010653	203.05	ug/L		97
28) Vinyl Acetate	3.818	86	280268	181.95	ug/L	#	85
29) DIPE	3.861	45	6996115	195.99	ug/L		90
30) 2-Chloro-1,3-Butadiene	3.842	53	3504325	217.74	ug/L		86
31) ETBE	4.434	59	6060887	198.45	ug/L		95
32) 2,2-Dichloropropane	4.604	77	2231153	193.96	ug/L		97
33) cis-1,2-Dichloroethene	4.623	96	1648745	195.41	ug/L	#	84
34) 2-Butanone	4.684	43	1836119	193.01	ug/L		93
35) Propionitrile	4.781	54	2508264	1044.98	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 11 09:31:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	5.056	130	1077798	198.13 ug/L	90
37) Methacrylonitrile	5.068	67	1011089	189.49 ug/L #	84
38) Tetrahydrofuran	5.147	42	1104579	189.29 ug/L	86
39) Chloroform	5.245	83	2859986	199.54 ug/L	97
40) 1,1,1-Trichloroethane	5.519	97	2519978	206.09 ug/L	95
42) Cyclohexane	5.598	41	2220190	216.97 ug/L	88
44) Carbontetrachloride	5.787	121	668816	226.77 ug/L	86
45) 1,1-Dichloropropene	5.799	75	2059576	200.13 ug/L	99
47) Benzene	6.110	78	5824392	194.08 ug/L	86
48) 1,2-Dichloroethane	6.147	62	2777397	200.99 ug/L	98
49) Iso-Butyl Alcohol	6.171	43	4805816	4427.38 ug/L	91
50) TAME	6.348	73	5096072	201.50 ug/L	94
51) n-Heptane	6.586	43	2591669	190.50 ug/L	97
52) 1-Butanol	7.098	56	6254798	10706.27 ug/L	85
53) Trichloroethene	7.031	130	1681752	180.98 ug/L	97
54) Methylcyclohexane	7.262	55	2465775	209.82 ug/L	90
55) 1,2-Diclpropane	7.305	63	1814882	200.17 ug/L	99
56) Dibromomethane	7.445	93	1132486	194.92 ug/L	98
57) 1,4-Dioxane	7.512	88	847627	4045.75 ug/L	89
58) Methyl Methacrylate	7.537	69	1602826	206.20 ug/L	96
59) Bromodichloromethane	7.671	83	2234922	200.32 ug/L	98
60) 2-Nitropropane	7.951	41	1861442	492.43 ug/L	98
61) 2-Chloroethylvinyl Ether	8.073	63	1421995	207.97 ug/L	93
62) cis-1,3-Dichloropropene	8.201	75	2634386	207.25 ug/L	99
63) 4-Methyl-2-pentanone	8.409	43	3426449	208.53 ug/L	99
65) Toluene	8.567	91	5709920	178.34 ug/L	87
66) trans-1,3-Dichloropropene	8.829	75	2548682	208.35 ug/L	98
67) Ethyl Methacrylate	8.969	69	2767350	206.84 ug/L	100
68) 1,1,2-Trichloroethane	9.018	97	1589427	200.05 ug/L	90
71) Tetrachloroethene	9.146	164	1274906	194.52 ug/L	94
72) 2-Hexanone	9.299	43	2753371	214.14 ug/L	96
73) 1,3-Dichloropropane	9.183	76	2676627	191.35 ug/L	98
74) Dibromochloromethane	9.402	129	1823249	215.30 ug/L	99
75) N-Butyl Acetate	9.451	43	4587796	207.21 ug/L	94
76) 1,2-Dibromoethane	9.500	107	1720208	195.70 ug/L	98
77) 3-Chlorobenzotrifluoride	10.006	180	2416540	189.18 ug/L	97
78) Chlorobenzene	9.988	112	3914118	181.53 ug/L	92
79) 4-Chlorobenzotrifluoride	10.055	180	2161708	191.58 ug/L	97
80) 1,1,1,2-Tetrachloroethane	10.073	131	1638765	208.68 ug/L	95
81) Ethylbenzene	10.103	106	2245768	199.32 ug/L #	54
82) (m+p)Xylene	10.213	106	4849872m	357.50 ug/L	
83) o-Xylene	10.567	106	2654694	195.23 ug/L #	77
84) Styrene	10.579	104	4326479	185.77 ug/L	85
85) Bromoform	10.731	173	1485241	235.45 ug/L	99
86) 2-Chlorobenzotrifluoride	10.811	180	2493343	201.53 ug/L	99
87) Isopropylbenzene	10.902	105	5816299	171.46 ug/L	81
88) Cyclohexanone	10.963	55	7703312	3088.49 ug/L	78
89) trans-1,4-Dichloro-2-B...	11.207	53	1032777	248.70 ug/L	89
91) 1,1,2,2-Tetrachloroethane	11.158	83	2448652	227.01 ug/L	96
92) Bromobenzene	11.146	156	1936742	179.47 ug/L	98
93) 1,2,3-Trichloropropane	11.189	110	817221	191.84 ug/L	92

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 11 09:31:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

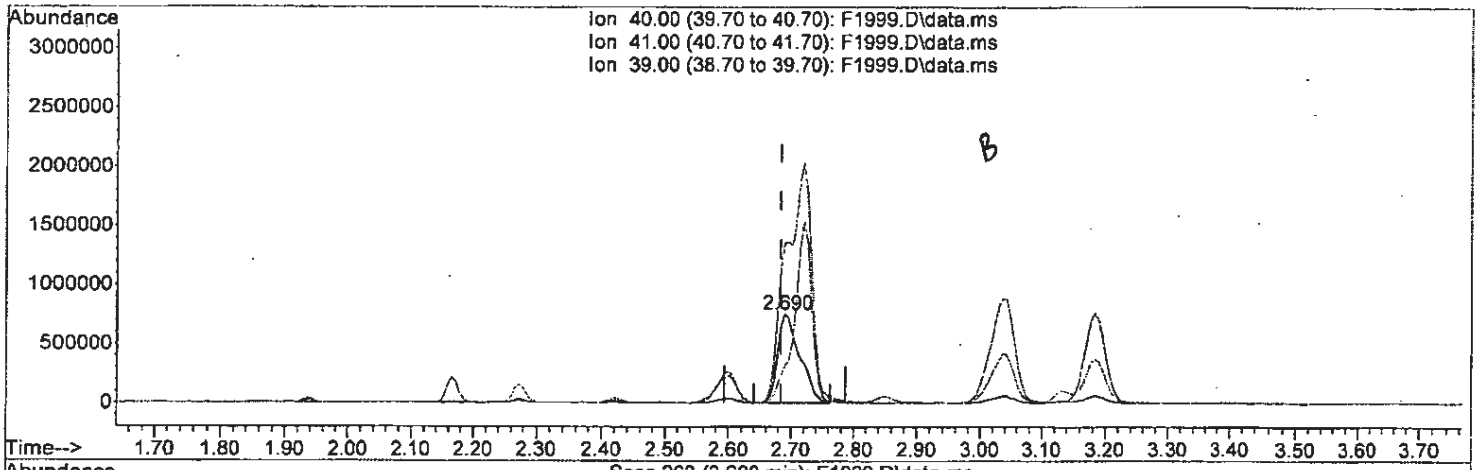
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.249	91	6358621	147.19	ug/L	73
95)	2-Chlorotoluene	11.317	91	4604605	166.20	ug/L	85
96)	3-Chlorotoluene	11.365	91	5073631	177.52	ug/L	87
97)	4-Chlorotoluene	11.408	91	5053499	156.13	ug/L	80
98)	1,3,5-Trimethylbenzene	11.402	105	5062768	169.91	ug/L	79
99)	tert-Butylbenzene	11.676	119	4630575	171.59	ug/L	88
100)	1,2,4-Trimethylbenzene	11.713	105	5181875	166.13	ug/L	73
101)	3,4-Dichlorobenzotrifl...	11.774	214	2010549	177.91	ug/L	97
102)	sec-Butylbenzene	11.853	105	6021843	157.45	ug/L	77
103)	p-Isopropyltoluene	11.975	119	5342153	167.38	ug/L	74
104)	1,3-Dclbenz	11.938	146	3538358	178.90	ug/L	91
105)	1,4-Dclbenz	12.012	146	3641397	173.75	ug/L	92
106)	2,4-Dichlorobenzotrifl...	12.060	214	1979192	193.62	ug/L	99
107)	2,5-Dichlorobenzotrifl...	12.103	214	2097393	186.91	ug/L	98
108)	n-Butylbenzene	12.304	91	5293134	162.61	ug/L	80
109)	1,2-Dclbenz	12.310	146	3536271	177.09	ug/L	89
110)	1,2-Dibromo-3-chloropr...	12.932	157	739715	229.85	ug/L	97
111)	Trielution Dichlorotol...	13.054	125	8854967	498.96	ug/L	76
112)	1,3,5-Trichlorobenzene	13.103	180	2982261	189.10	ug/L	96
113)	Coelution Dichlorotoluene	13.377	125	6193824	318.05	ug/L	68
114)	1,2,4-Tcbenzene	13.584	180	2817391	179.08	ug/L	97
115)	Hexachlorobt	13.725	225	1257125	195.13	ug/L	94
116)	Naphthalen	13.773	128	6474089	143.68	ug/L	74
117)	1,2,3-Tclbenzene	13.962	180	2845664	179.82	ug/L	98
118)	2,4,5-Trichlorotoluene	14.548	159	2304934	183.44	ug/L	94
119)	2,3,6-Trichlorotoluene	14.633	159	2025992	183.18	ug/L	96

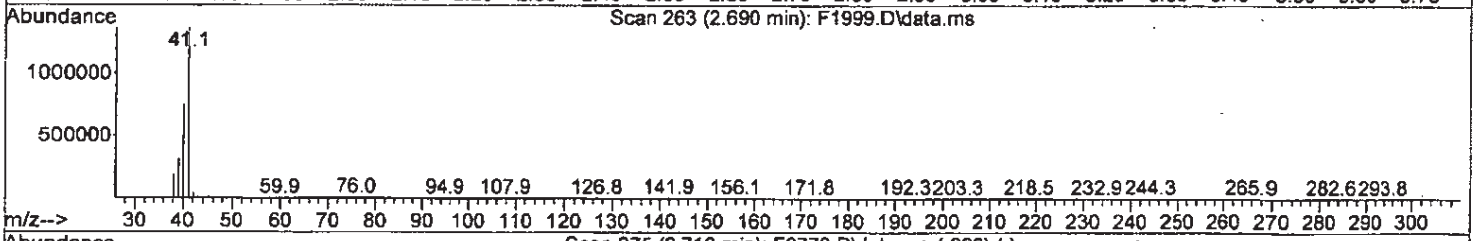
(#) = qualifier out of range (m) = manual integration (+) = signals summed

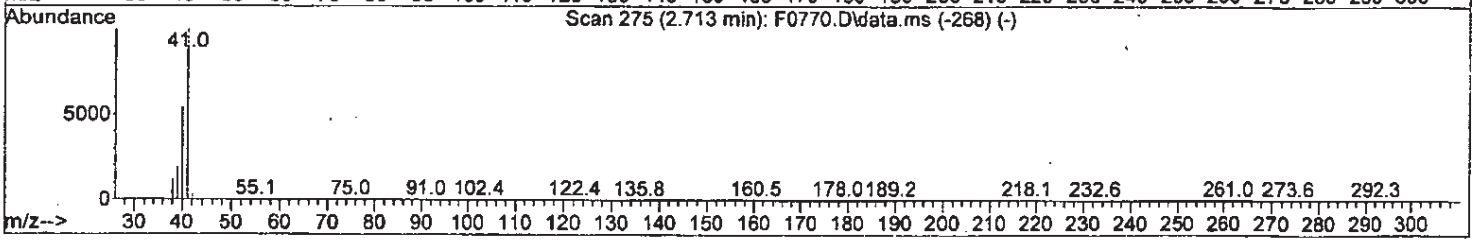
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 10 21:10:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1999.D\data.ms

(19) Acetonitrile

2.690min (+0.006) 1443.51 ug/L

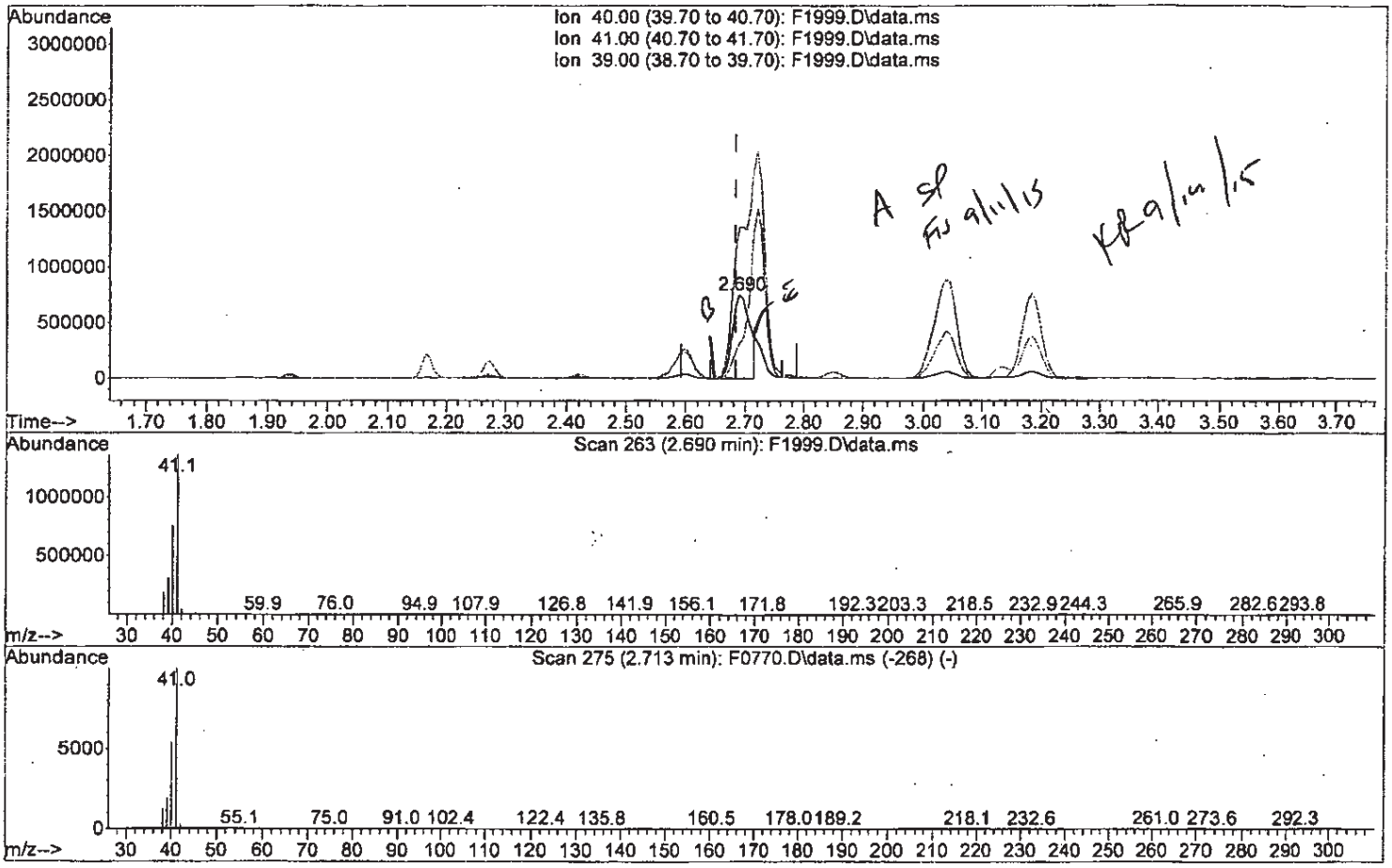
response 1864588

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	180.88
39.00	35.30	41.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 10 21:10:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1999.D\data.ms

(19) Acetonitrile

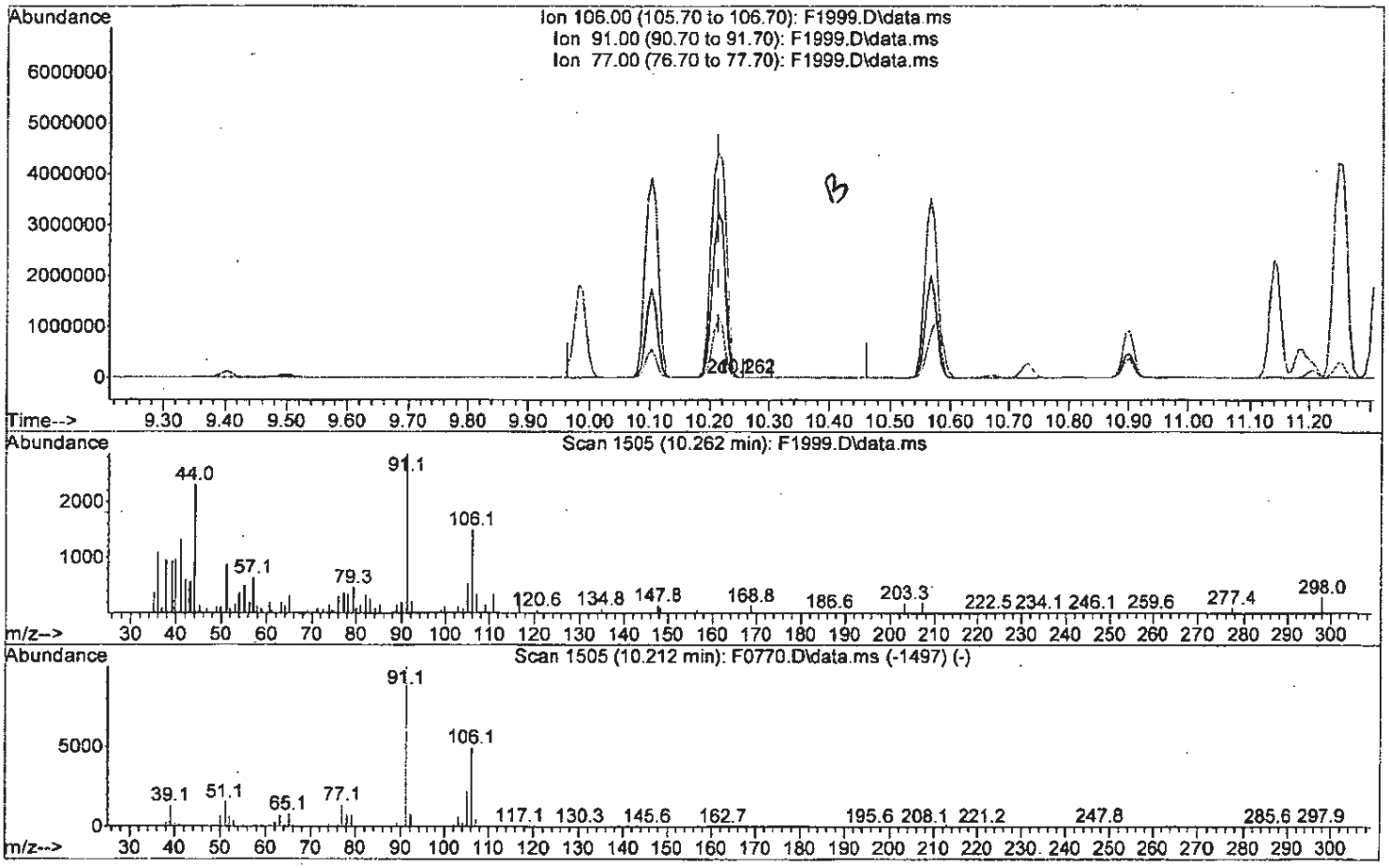
2.690min (+0.006) 1182.76 ug/L m

response 1527767

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	180.88
39.00	35.30	41.57
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 10 21:10:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1999.D\data.ms

(82) (m+p)Xylene (P)

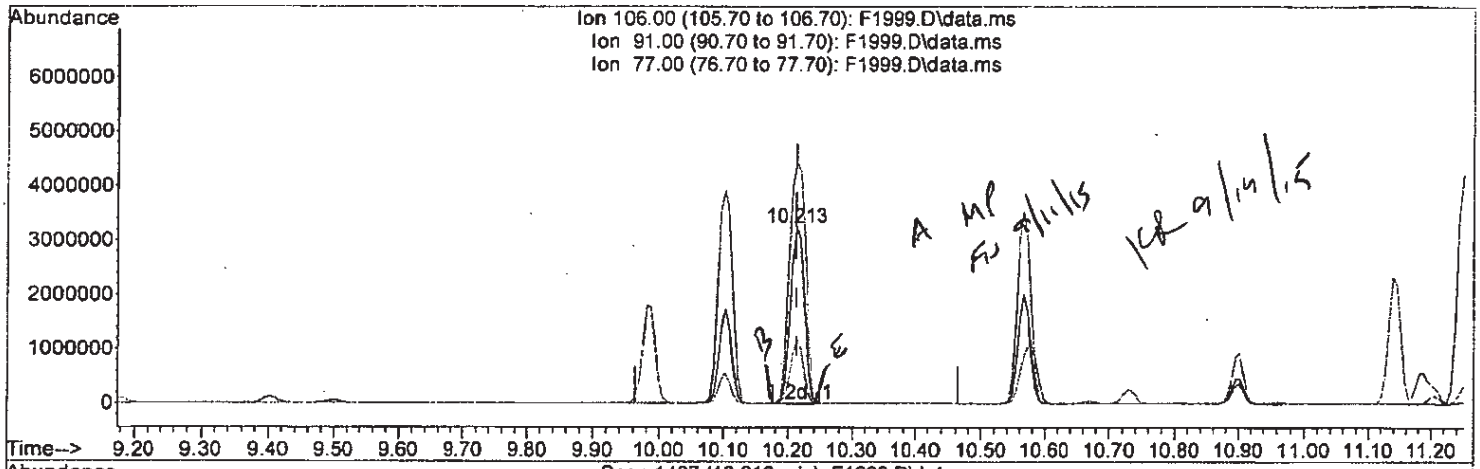
10.262min (+0.049) 0.10 ug/L

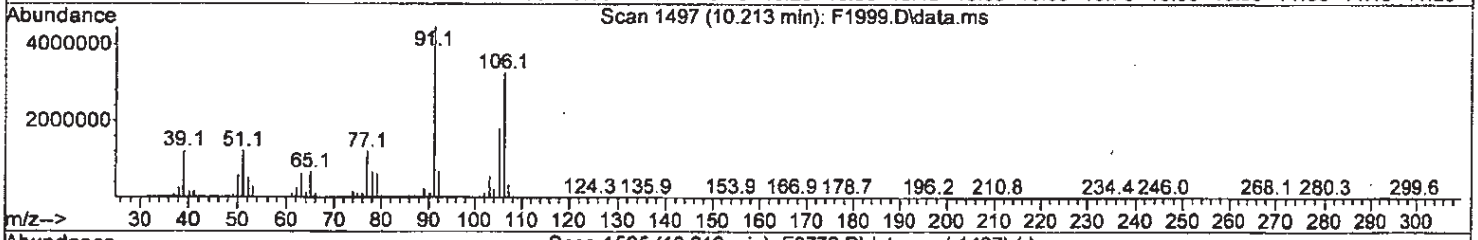
response 1409

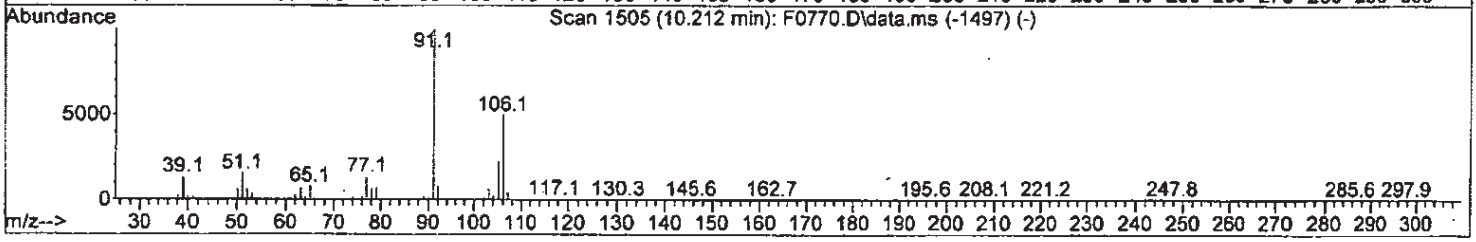
Ion	Exp%	Act%
106.00	100	100
91.00	203.10	191.10
77.00	26.90	24.30
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 10 21:10:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1999.D\data.ms

(82) (m+p)Xylene (P)

10.213min (+0.000) 357.50 ug/L m

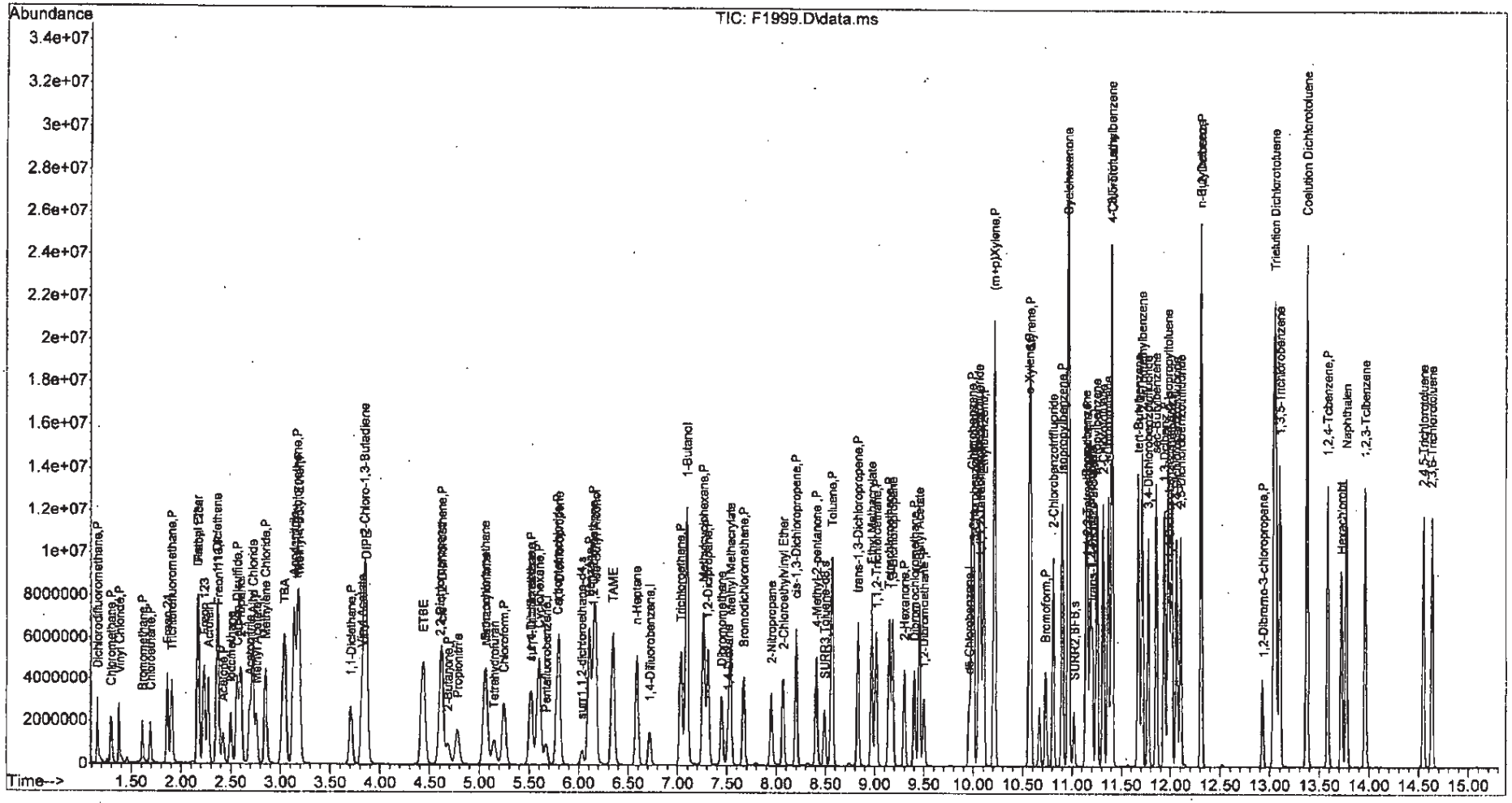
response 4849872

Ion	Exp%	Act%
106.00	100	100
91.00	203.10	136.70#
77.00	26.90	36.66
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 11 09:31:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



29709

Initial Calibration Verification Summary Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
1,1,1,2-Tetrachloroethane	RC1500091-10	T	Average RF	50	53.11	ppm	6.2	<=30
1,1,1-Trichloroethane (TCA)	RC1500091-10	T	Average RF	50	52.99	ppm	6.0	<=30
1,1,2,2-Tetrachloroethane	RC1500091-10	T	Linear	50	52.86	ppm	5.7	<=30
1,1,2-Trichloroethane	RC1500091-10	T	Average RF	50	50.29	ppm	0.6	<=30
1,1,2-Trichlorotrifluoroethane	RC1500091-10	T	Average RF	50	45.79	ppm	-8.4	<=30
1,1-Dichloroethane (1,1-DCA)	RC1500091-10	T	Average RF	50	51.32	ppm	2.6	<=30
1,1-Dichloroethene (1,1-DCE)	RC1500091-10	T	Average RF	50	51.35	ppm	2.7	<=30
1,1-Dichloropropene	RC1500091-10	T	Average RF	50	48.38	ppm	-3.2	<=30
1,2,3-Trichlorobenzene	RC1500091-10	T	Average RF	50	51.20	ppm	2.4	<=30
1,2,3-Trichloropropane	RC1500091-10	T	Average RF	50	51.86	ppm	3.7	<=30
1,2,4-Trichlorobenzene	RC1500091-10	T	Average RF	50	50.30	ppm	0.6	<=30
1,2,4-Trimethylbenzene	RC1500091-10	T	Average RF	50	50.88	ppm	1.8	<=30
1,2-Dibromo-3-chloropropane (DBCP)	RC1500091-10	T	Average RF	50	55.34	ppm	10.7	<=30
1,2-Dibromoethane	RC1500091-10	T	Average RF	50	51.01	ppm	2.0	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1500091-10	T	Average RF	50	56.84	ppm	13.7	<=30
1,2-Dichlorobenzene	RC1500091-10	T	Average RF	50	49.44	ppm	-1.1	<=30
1,2-Dichloroethane	RC1500091-10	T	Average RF	50	51.36	ppm	2.7	<=30
1,2-Dichloropropane	RC1500091-10	T	Average RF	50	50.81	ppm	1.6	<=30
1,3,5-Trichlorobenzene	RC1500091-10	T	Average RF	50	49.64	ppm	-0.7	<=30
1,3,5-Trimethylbenzene	RC1500091-10	T	Average RF	50	51.06	ppm	2.1	<=30
1,3-Dichlorobenzene	RC1500091-10	T	Average RF	50	49.53	ppm	-0.9	<=30
1,3-Dichloropropane	RC1500091-10	T	Average RF	50	50.24	ppm	0.5	<=30
1,4-Dichlorobenzene	RC1500091-10	T	Average RF	50	46.99	ppm	-6.0	<=30
1,4-Dioxane	RC1500091-10	T	Average RF	1000	1047	ppm	4.7	<=30
1-Butanol	RC1500091-10	T	Average RF	2500	2810	ppm	12.4	<=30
1-Chloro-4-(trifluoromethyl)benzene	RC1500091-10	T	Average RF	50	49.29	ppm	-1.4	<=30
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1500091-10	T	Average RF	50	56.84	ppm	13.7	<=30
2,2-Dichloropropane	RC1500091-10	T	Average RF	50	46.91	ppm	-6.2	<=30
2,3,6-Trichlorotoluene	RC1500091-10	T	Average RF	50	51.58	ppm	3.2	<=30
2,4,5-Trichlorotoluene	RC1500091-10	T	Average RF	50	53.26	ppm	6.5	<=30
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	RC1500091-10	T	Average RF	150	156.9	ppm	4.6	<=30
2,4-Dichlorobenzotrifluoride	RC1500091-10	T	Average RF	50	47.64	ppm	-4.7	<=30
2,5-Dichlorobenzotrifluoride	RC1500091-10	T	Average RF	50	49.60	ppm	-0.8	<=30
2-Butanone (MEK)	RC1500091-10	T	Average RF	50	56.00	ppm	12.0	<=30
2-Chloro-1,3-butadiene	RC1500091-10	T	Average RF	50	49.43	ppm	-1.1	<=30
2-Chlorobenzotrifluoride	RC1500091-10	T	Average RF	50	50.01	ppm	0.0	<=30
2-Chloroethyl Vinyl Ether	RC1500091-10	T	Average RF	50	54.09	ppm	8.2	<=30
2-Chlorotoluene	RC1500091-10	T	Average RF	50	50.64	ppm	1.3	<=30
2-Hexanone	RC1500091-10	T	Average RF	50	55.79	ppm	11.6	<=30
2-Methyl-1-propanol	RC1500091-10	T	Average RF	1000	1082	ppm	8.2	<=30
2-Methyl-2-propanol	RC1500091-10	T	Average RF	1000	1115	ppm	11.5	<=30
2-Nitropropane	RC1500091-10	T	Average RF	100	107.7	ppm	7.7	<=30
2-Propanol	RC1500091-10	T	Average RF	1000	1093	ppm	9.3	<=30
3,4- and 2,3-Dichlorotoluene Coelution	RC1500091-10	T	Average RF	100	106.8	ppm	6.8	<=30
3,4-Dichlorobenzotrifluoride	RC1500091-10	T	Average RF	50	47.31	ppm	-5.4	<=30
3-Chloro-1-propene	RC1500091-10	T	Average RF	50	48.51	ppm	-3.0	<=30
3-Chlorobenzotrifluoride	RC1500091-10	T	Average RF	50	49.83	ppm	-0.3	<=30
3-Chlorotoluene	RC1500091-10	T	Average RF	50	51.67	ppm	3.3	<=30
4-Chlorotoluene	RC1500091-10	T	Average RF	50	50.89	ppm	1.8	<=30
4-Isopropyltoluene	RC1500091-10	T	Average RF	50	51.80	ppm	3.6	<=30
4-Methyl-2-pentanone	RC1500091-10	T	Average RF	50	53.34	ppm	6.7	<=30

00263

Initial Calibration Verification Summary Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Acetone	RC1500091-10	T	Average RF	50	58.43	ppm	16.9	<=30
Acetonitrile	RC1500091-10	T	Average RF	250	242.8	ppm	-2.9	<=30
Acrolein	RC1500091-10	T	Average RF	100	96.74	ppm	-3.3	<=30
Acrylonitrile	RC1500091-10	T	Average RF	250	270.8	ppm	8.3	<=30
Benzene	RC1500091-10	T	Average RF	50	50.30	ppm	0.6	<=30
Bromobenzene	RC1500091-10	T	Average RF	50	50.16	ppm	0.3	<=30
Bromochloromethane	RC1500091-10	T	Average RF	50	52.93	ppm	5.9	<=30
Bromodichloromethane	RC1500091-10	T	Average RF	50	53.09	ppm	6.2	<=30
Bromoform	RC1500091-10	T	Average RF	50	55.50	ppm	11.0	<=30
Bromomethane	RC1500091-10	T	Quadratic	50	45.77	ppm	-8.5	<=30
Carbon Disulfide	RC1500091-10	T	Average RF	50	56.76	ppm	13.5	<=30
Carbon Tetrachloride	RC1500091-10	T	Average RF	50	52.96	ppm	5.9	<=30
Chlorobenzene	RC1500091-10	T	Average RF	50	50.26	ppm	0.5	<=30
Chloroethane	RC1500091-10	T	Average RF	50	52.35	ppm	4.7	<=30
Chloroform	RC1500091-10	T	Average RF	50	53.04	ppm	6.1	<=30
Chloromethane	RC1500091-10	T	Average RF	50	49.16	ppm	-1.7	<=30
Cyclohexane	RC1500091-10	T	Average RF	50	49.16	ppm	-1.7	<=30
Cyclohexanone	RC1500091-10	T	Average RF	1000	1162	ppm	16.2	<=30
Dibromochloromethane	RC1500091-10	T	Average RF	50	54.16	ppm	8.3	<=30
Dibromomethane	RC1500091-10	T	Average RF	50	50.43	ppm	0.9	<=30
Dichlorodifluoromethane (CFC 12)	RC1500091-10	T	Average RF	50	57.98	ppm	16.0	<=30
Dichlorofluoromethane (CFC 21)	RC1500091-10	T	Average RF	50	59.52	ppm	19.0	<=30
Dichloromethane	RC1500091-10	T	Average RF	50	49.47	ppm	-1.1	<=30
Diethyl Ether	RC1500091-10	T	Average RF	50	51.51	ppm	3.0	<=30
Diisopropyl Ether	RC1500091-10	T	Average RF	50	48.68	ppm	-2.6	<=30
Ethyl Methacrylate	RC1500091-10	T	Average RF	50	53.63	ppm	7.3	<=30
Ethyl tert-Butyl Ether	RC1500091-10	T	Average RF	50	48.12	ppm	-3.8	<=30
Ethylbenzene	RC1500091-10	T	Average RF	50	46.06	ppm	-7.9	<=30
Hexachlorobutadiene	RC1500091-10	T	Average RF	50	50.78	ppm	1.6	<=30
Iodomethane	RC1500091-10	T	Quadratic	50	48.60	ppm	-2.8	<=30
Isopropylbenzene (Cumene)	RC1500091-10	T	Average RF	50	51.33	ppm	2.7	<=30
Methacrylonitrile	RC1500091-10	T	Average RF	50	51.23	ppm	2.5	<=30
Methyl Acetate	RC1500091-10	T	Average RF	50	54.83	ppm	9.7	<=30
Methyl Methacrylate	RC1500091-10	T	Average RF	50	52.56	ppm	5.1	<=30
Methyl tert-Butyl Ether	RC1500091-10	T	Average RF	50	53.47	ppm	6.9	<=30
Methylcyclohexane	RC1500091-10	T	Average RF	50	48.68	ppm	-2.6	<=30
Naphthalene	RC1500091-10	T	Average RF	50	55.62	ppm	11.2	<=30
Propionitrile	RC1500091-10	T	Average RF	250	273.5	ppm	9.4	<=30
Styrene	RC1500091-10	T	Average RF	50	51.27	ppm	2.5	<=30
Tetrachloroethene (PCE)	RC1500091-10	T	Average RF	50	49.51	ppm	-1.0	<=30
Tetrahydrofuran (THF)	RC1500091-10	T	Average RF	50	49.56	ppm	-0.9	<=30
Toluene	RC1500091-10	T	Average RF	50	50.56	ppm	1.1	<=30
Trichloroethene (TCE)	RC1500091-10	T	Average RF	50	47.63	ppm	-4.7	<=30
Trichlorofluoromethane (CFC 11)	RC1500091-10	T	Average RF	50	53.57	ppm	7.1	<=30
Vinyl Acetate	RC1500091-10	T	Average RF	50	56.10	ppm	12.2	<=30
Vinyl Chloride	RC1500091-10	T	Average RF	50	56.49	ppm	13.0	<=30
cis-1,2-Dichloroethene	RC1500091-10	T	Average RF	50	49.35	ppm	-1.3	<=30
cis-1,3-Dichloropropene	RC1500091-10	T	Average RF	50	51.50	ppm	3.0	<=30
m,p-Xylenes	RC1500091-10	T	Average RF	100	103.3	ppm	3.3	<=30
n-Butyl Acetate	RC1500091-10	T	Average RF	50	57.65	ppm	15.3	<=30
n-Butylbenzene	RC1500091-10	T	Average RF	50	52.43	ppm	4.9	<=30

Initial Calibration Verification Summary Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
n-Heptane	RC1500091-10	T	Average RF	50	43.99	ppm	-12.0	<=30
n-Propylbenzene	RC1500091-10	T	Average RF	50	52.07	ppm	4.1	<=30
o-Xylene	RC1500091-10	T	Average RF	50	50.13	ppm	0.3	<=30
sec-Butylbenzene	RC1500091-10	T	Average RF	50	52.63	ppm	5.3	<=30
tert-Amyl Methyl Ether	RC1500091-10	T	Average RF	50	49.23	ppm	-1.5	<=30
tert-Butylbenzene	RC1500091-10	T	Average RF	50	51.46	ppm	2.9	<=30
trans-1,2-Dichloroethene	RC1500091-10	T	Average RF	50	50.95	ppm	1.9	<=30
trans-1,3-Dichloropropene	RC1500091-10	T	Average RF	50	53.42	ppm	6.8	<=30
trans-1,4-Dichloro-2-butene	RC1500091-10	T	Average RF	50	52.56	ppm	5.1	<=30
1,2-Dichloroethane-d4	RC1500091-10	S	Average RF	50	51.03	ppm	2.1	<=30
4-Bromofluorobenzene	RC1500091-10	S	Average RF	50	49.86	ppm	-0.3	<=30
Dibromofluoromethane	RC1500091-10	S	Average RF	50	50.62	ppm	1.2	<=30
Toluene-d8	RC1500091-10	S	Average RF	50	51.14	ppm	2.3	<=30

00265

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F2002.D
Acq On : 10 Sep 2015 10:08 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 10:29:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FV 9/11/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	772305	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	1123887	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	996869	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	554080	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	367059	50.62	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.24%			
46) surr1,1,2-dichloroetha...	6.037	65	524676	51.03	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.06%			
64) SURR3,Toluene-d8	8.494	98	1351777	51.14	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.28%			
69) SURR2,BFB	11.018	95	544228	49.86	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.72%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	396584	57.98	ug/L	99
3) Chloromethane	1.294	50	458293	49.16	ug/L	98
4) Vinyl Chloride	1.373	62	455760	56.49	ug/L	99
5) Bromomethane	1.611	94	173719	45.77	ug/L	99
6) Chloroethane	1.697	64	253030	52.35	ug/L	93
7) Freon 21	1.861	67	814510	59.52	ug/L	96
8) Trichlorofluoromethane	1.910	101	556121	53.57	ug/L	99
9) Diethyl Ether	2.166	59	391129	51.51	ug/L	96
10) Freon 123a	2.172	67	516258	56.84	ug/L	99
11) Freon 123	2.233	83	531138	56.84	ug/L	97
12) Acrolein	2.276	56	238910	96.74	ug/L	94
13) 1,1-Diclethene	2.361	96	324438	51.35	ug/L	98
14) Freon 113	2.373	101	322848	45.79	ug/L	99
15) Acetone	2.416	43	385991	58.43	ug/L	95
16) 2-Propanol	2.581	45	1531250	1092.78	ug/L	90
17) Iodomethane	2.501	142	460279	48.60	ug/L	92
18) Carbon Disulfide	2.562	76	1094745	56.76	ug/L	98
19) Acetonitrile	2.690	40	335848m	242.80	ug/L	
20) Allyl Chloride	2.727	76	195392	48.51	ug/L #	49
21) Methyl Acetate	2.757	43	654651	54.83	ug/L	98
22) Methylene Chloride	2.849	84	391669	49.47	ug/L	95
23) TBA	3.019	59	2158389	1115.08	ug/L	97
24) Acrylonitrile	3.129	53	1403092	270.82	ug/L	97
25) Methyl-t-Butyl Ether	3.184	73	1401037	53.47	ug/L	95
26) trans-1,2-Dichloroethene	3.166	96	354181	50.95	ug/L #	89
27) 1,1-Diclethane	3.708	63	760303	51.32	ug/L	97
28) Vinyl Acetate	3.812	86	83961	56.10	ug/L #	73
29) DIPE	3.861	45	1654627	48.68	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.842	53	801839	49.43	ug/L	87
31) ETBE	4.434	59	1363898	48.12	ug/L	95
32) 2,2-Dichloropropane	4.611	77	515063	46.91	ug/L	96
33) cis-1,2-Dichloroethene	4.623	96	398977	49.35	ug/L #	83
34) 2-Butanone	4.684	43	465690	56.00	ug/L	97
35) Propionitrile	4.769	54	609766	273.47	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F2002.D
Acq On : 10 Sep 2015 10:08 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 10:29:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) Bromochloromethane	5.050	130	267198	52.93 ug/L		89
37) Methacrylonitrile	5.068	67	248818	51.23 ug/L		89
38) Tetrahydrofuran	5.141	42	283780	49.56 ug/L		99
39) Chloroform	5.245	83	708381	53.04 ug/L		96
40) 1,1,1-Trichloroethane	5.513	97	619035	52.99 ug/L		96
42) Cyclohexane	5.592	41	551341	49.16 ug/L		93
44) Carbontetrachloride	5.787	121	160387	52.96 ug/L		92
45) 1,1-Dichloropropene	5.799	75	489685	48.38 ug/L		95
47) Benzene	6.104	78	1513534	50.30 ug/L		87
48) 1,2-Dichloroethane	6.147	62	697542	51.36 ug/L		98
49) Iso-Butyl Alcohol	6.153	43	1109565	1082.12 ug/L		91
50) TAME	6.342	73	1210122	49.23 ug/L		99
51) n-Heptane	6.586	43	629347	43.99 ug/L		96
52) 1-Butanol	7.080	56	1526419	2809.90 ug/L		93
53) Trichloroethene	7.031	130	425286	47.63 ug/L		97
54) Methylcyclohexane	7.263	55	605282	48.68 ug/L		86
55) 1,2-Diclpropane	7.305	63	445319	50.81 ug/L		97
56) Dibromomethane	7.445	93	268708	50.43 ug/L		93
57) 1,4-Dioxane	7.506	88	199298	1046.95 ug/L		93
58) Methyl Methacrylate	7.531	69	382957	52.56 ug/L		90
59) Bromodichloromethane	7.671	83	547414	53.09 ug/L		98
60) 2-Nitropropane	7.945	41	401069	107.74 ug/L		94
61) 2-Chloroethylvinyl Ether	8.067	63	352965	54.09 ug/L		99
62) cis-1,3-Dichloropropene	8.201	75	624361	51.50 ug/L		99
63) 4-Methyl-2-pentanone	8.403	43	844747	53.34 ug/L		96
65) Toluene	8.561	91	1584616	50.56 ug/L		99
66) trans-1,3-Dichloropropene	8.829	75	598189	53.42 ug/L		98
67) Ethyl Methacrylate	8.970	69	673977	53.63 ug/L		95
68) 1,1,2-Trichloroethane	9.012	97	373955	50.29 ug/L	#	88
71) Tetrachloroethene	9.146	164	318096	49.51 ug/L		93
72) 2-Hexanone	9.299	43	673083	55.79 ug/L		96
73) 1,3-Dichloropropane	9.177	76	662699	50.24 ug/L		98
74) Dibromochloromethane	9.402	129	413726	54.16 ug/L		96
75) N-Butyl Acetate	9.451	43	1249738	57.65 ug/L		95
76) 1,2-Dibromoethane	9.500	107	414638	51.01 ug/L		99
77) 3-Chlorobenzotrifluoride	10.000	180	600919	49.83 ug/L		97
78) Chlorobenzene	9.982	112	1040951	50.26 ug/L		96
79) 4-Chlorobenzotrifluoride	10.055	180	527589	49.29 ug/L		97
80) 1,1,1,2-Tetrachloroethane	10.067	131	379234	53.11 ug/L		97
81) Ethylbenzene	10.103	106	507694	46.06 ug/L		97
82) (m+p)Xylene	10.213	106	1338960	103.26 ug/L		96
83) o-Xylene	10.567	106	677027	50.13 ug/L		96
84) Styrene	10.579	104	1128220	51.27 ug/L		98
85) Bromoform	10.731	173	323632	55.50 ug/L		95
86) 2-Chlorobenzotrifluoride	10.811	180	598407	50.01 ug/L		98
87) Isopropylbenzene	10.896	105	1705354	51.33 ug/L		98
88) Cyclohexanone	10.957	55	2665271	1161.55 ug/L		85
89) trans-1,4-Dichloro-2-B...	11.201	53	216771	52.56 ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.152	83	555758	52.86 ug/L		97
92) Bromobenzene	11.140	156	465329	50.16 ug/L	#	88
93) 1,2,3-Trichloropropane	11.183	110	190403	51.86 ug/L	#	80

00267

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F2002.D
Acq On : 10 Sep 2015 10:08 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 10:29:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

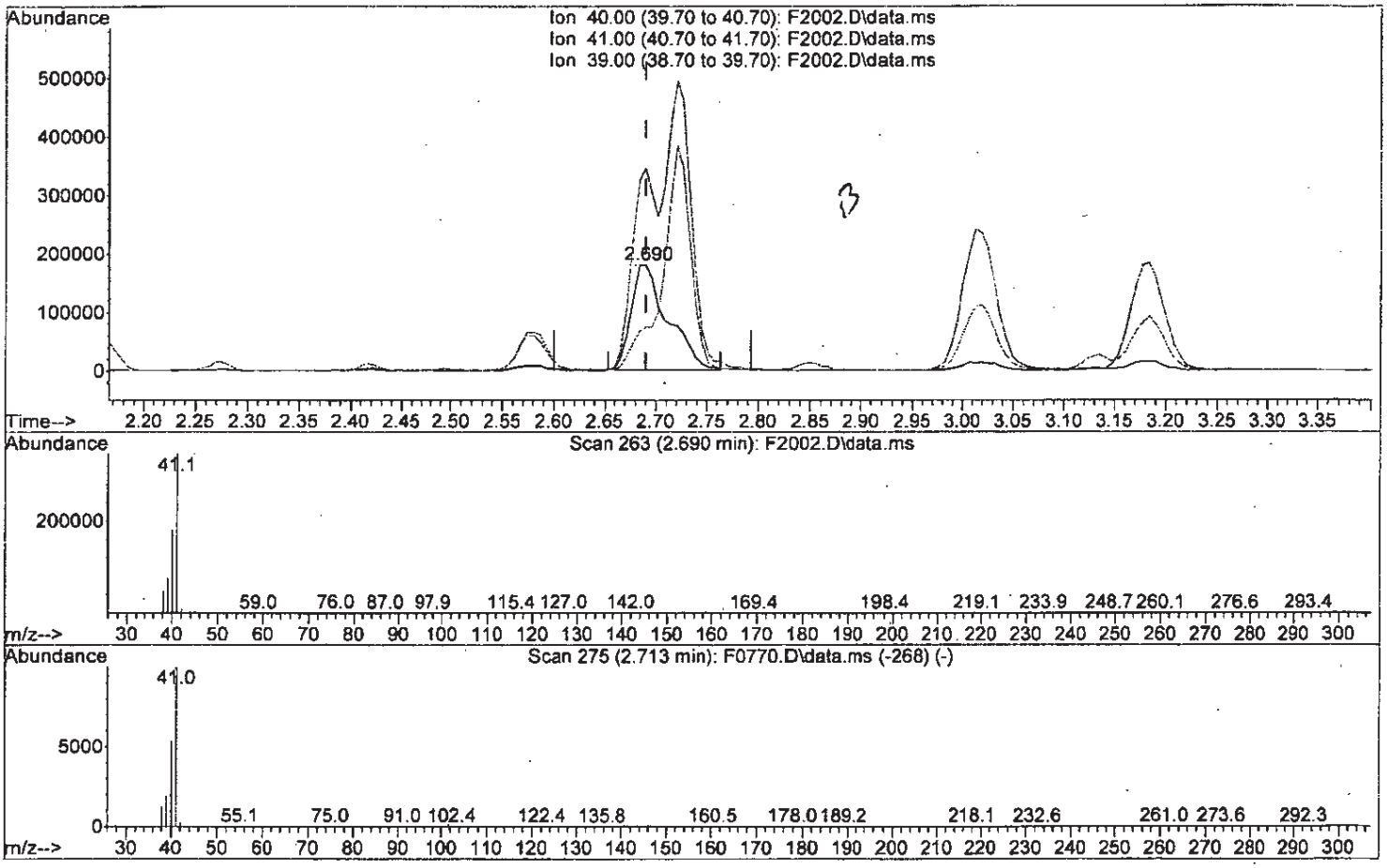
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	n-Propylbenzene	11.250	91	2077714	52.07 ug/L	98
95)	2-Chlorotoluene	11.311	91	1237513	50.64 ug/L	99
96)	3-Chlorotoluene	11.365	91	1312132	51.67 ug/L	99
97)	4-Chlorotoluene	11.408	91	1474818	50.89 ug/L	96
98)	1,3,5-Trimethylbenzene	11.402	105	1444690	51.06 ug/L	96
99)	tert-Butylbenzene	11.670	119	1238103	51.46 ug/L	98
100)	1,2,4-Trimethylbenzene	11.713	105	1468007	50.88 ug/L	95
101)	3,4-Dichlorobenzotrifl...	11.774	214	470234	47.31 ug/L	96
102)	sec-Butylbenzene	11.853	105	1844227	52.63 ug/L	98
103)	p-Isopropyltoluene	11.975	119	1541663	51.80 ug/L	95
104)	1,3-Dclbenz	11.932	146	865612	49.53 ug/L	98
105)	1,4-Dclbenz	12.006	146	880248	46.99 ug/L	95
106)	2,4-Dichlorobenzotrifl...	12.060	214	439881	47.64 ug/L	97
107)	2,5-Dichlorobenzotrifl...	12.103	214	493602	49.60 ug/L	96
108)	n-Butylbenzene	12.304	91	1531681	52.43 ug/L	97
109)	1,2-Dclbenz	12.310	146	871600	49.44 ug/L	97
110)	1,2-Dibromo-3-chloropr...	12.932	157	155782	55.34 ug/L	94
111)	Trielution Dichlorotol...	13.048	125	2481738	156.93 ug/L	97
112)	1,3,5-Trichlorobenzene	13.103	180	711246	49.64 ug/L	95
113)	Coelution Dichlorotoluene	13.377	125	1864229	106.77 ug/L	96
114)	1,2,4-Tcbenzene	13.584	180	708940	50.30 ug/L	96
115)	Hexachlorobt	13.719	225	297246	50.78 ug/L	99
116)	Naphthalen	13.773	128	2171036	55.62 ug/L	97
117)	1,2,3-Tclbenzene	13.962	180	714906	51.20 ug/L	97
118)	2,4,5-Trichlorotoluene	14.548	159	576225	53.26 ug/L	95
119)	2,3,6-Trichlorotoluene	14.633	159	505265	51.58 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F2002.D
Acq On : 10 Sep 2015 10:08 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 10:28:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2002.D\data.ms

(19) Acetonitrile

2.690min (+0.000) 318.42 ug/L

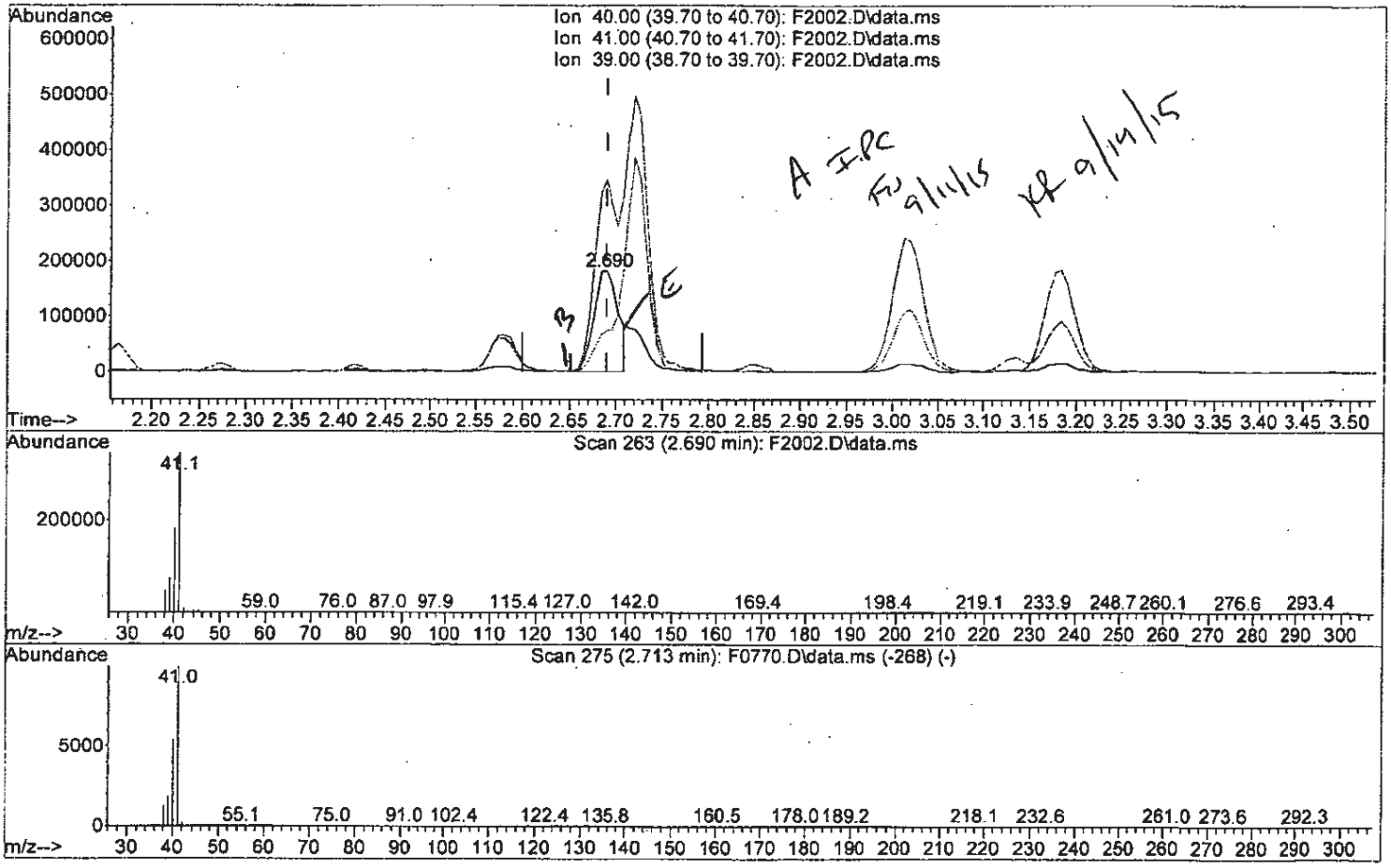
response 440457

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	190.48
39.00	35.30	40.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F2002.D
Acq On : 10 Sep 2015 10:08 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 10:28:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2002.D\data.ms

(19) Acetonitrile

2.690min (+0.000) 242.80 ug/L m

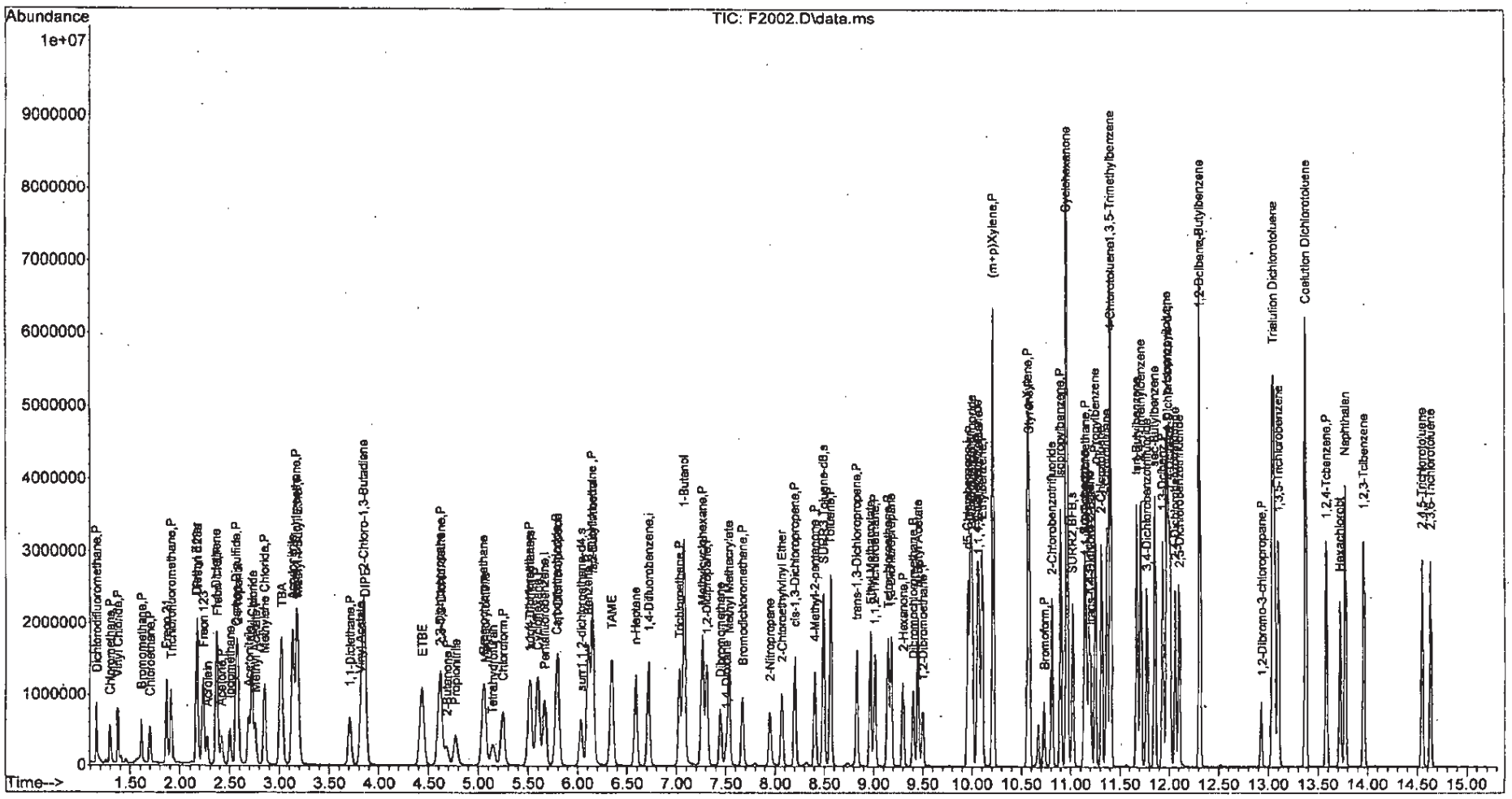
response 335848

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	190.48
39.00	35.30	40.96
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F2002.D
Acq On : 10 Sep 2015 10:08 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 10:29:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



Initial Calibration - Summary Report

BV 09/10/15

Calibration ID: RC1500090 **Instrument ID:** R-MS-14
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,1,1,2-Tetrachloroethane	T	Average RF			0.3311	<=20	10.3
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.7013	<=20	5.2
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	1.106	<=20	6.3
1,1,2-Trichloroethane	T	Average RF		0.100	0.3365	<=20	6.3
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.4401	<=20	4.8
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.8365	<=20	3.0
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.4328	<=20	4.6
1,1-Dichloropropene	T	Average RF			0.4225	<=20	4.2
1,2,3-Trichlorobenzene	T	Average RF			0.9539	<=20	5.7
1,2,3-Trichloropropane	T	Average RF			0.3303	<=20	8.5
1,2,4-Trichlorobenzene	T	Average RF		0.200	0.9741	<=20	6.6
1,2,4-Trimethylbenzene	T	Average RF			2.572	<=20	5.8
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF		0.050	0.2253	<=20	16.1
1,2-Dibromoethane	T	Average RF		0.100	0.3807	<=20	8.6
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	T	Average RF			0.5568	<=20	2.0
1,2-Dichlorobenzene	T	Average RF		0.400	1.541	<=20	4.8
1,2-Dichloroethane	T	Average RF		0.100	0.4547	<=20	3.5
1,2-Dichloropropane	T	Average RF		0.100	0.3387	<=20	4.2
1,3,5-Trichlorobenzene	T	Average RF			0.9917	<=20	5.3
1,3,5-Trimethylbenzene	T	Average RF			2.507	<=20	5.8
1,3-Dichlorobenzene	T	Average RF		0.600	1.530	<=20	4.1
1,3-Dichloropropane	T	Average RF			0.6376	<=20	4.3
1,4-Dichlorobenzene	T	Average RF		0.500	1.598	<=20	3.1
1,4-Dioxane	T	Average RF			0.007199	<=20	11.8
1-Butanol	T	Quadratic	1/X2		0.01395	>=0.99	0.9982
1-Chloro-4-(trifluoromethyl)benzene	T	Average RF			0.4718	<=20	4.0
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.6622	<=20	5.3
2,2-Dichloropropane	T	Average RF			0.6529	<=20	6.5
2,3,6-Trichlorotoluene	T	Average RF			0.5059	<=20	9.3
2,4,5-Trichlorotoluene	T	Average RF			0.5392	<=20	16.2
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	T	Average RF			1.178	<=20	6.7
2,4-Dichlorobenzotrifluoride	T	Average RF			0.6436	<=20	4.3
2,5-Dichlorobenzotrifluoride	T	Average RF			0.7415	<=20	4.1
2-Butanone (MEK)	T	Average RF		0.05	0.3283	<=20	4.1
2-Chloro-1,3-butadiene	T	Average RF			0.7685	<=20	5.7
2-Chlorobenzotrifluoride	T	Average RF			0.5238	<=20	3.8
2-Chloroethyl Vinyl Ether	T	Average RF			0.2141	<=20	16.5
2-Chlorotoluene	T	Average RF			2.282	<=20	5.0
2-Hexanone	T	Average RF		0.05	0.3150	<=20	13.6
2-Methyl-1-propanol	T	Average RF			0.02167	<=20	17.8
2-Methyl-2-propanol	T	Average RF			0.08004	<=20	13.5
2-Nitropropane	T	Quadratic	1/X2		0.07335	>=0.99	0.9945
2-Propanol	T	Average RF			0.04645	<=20	15.4
3,4- and 2,3-Dichlorotoluene Coelution	T	Average RF			1.342	<=20	7.6
3,4-Dichlorobenzotrifluoride	T	Average RF			0.7106	<=20	3.1
3-Chloro-1-propene	T	Average RF			0.2389	<=20	10.6
3-Chlorobenzotrifluoride	T	Average RF			0.5219	<=20	5.0
3-Chlorotoluene	T	Average RF			2.336	<=20	4.1
4-Chlorotoluene	T	Average RF			2.627	<=20	4.2
4-Isopropyltoluene	T	Average RF			2.418	<=20	4.5
4-Methyl-2-pentanone	T	Average RF		0.05	0.3751	<=20	9.3
Acetone	T	Average RF		0.05	0.2347	<=20	11.9

Initial Calibration - Summary Report

Calibration ID: RC1500090 **Instrument ID:** R-MS-14
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Acetonitrile	T	Average RF			0.05193	<=20	3.9
Acrolein	T	Average RF			0.1279	<=20	11.0
Acrylonitrile	T	Average RF			0.2650	<=20	7.8
Benzene	T	Average RF		0.500	1.335	<=20	3.9
Bromobenzene	T	Average RF			0.8427	<=20	3.1
Bromochloromethane	T	Average RF			0.3455	<=20	6.7
Bromodichloromethane	T	Average RF		0.200	0.4067	<=20	10.6
Bromoform	T	Average RF		0.100	0.2461	<=20	19.8
Bromomethane	T	Average RF		0.100	0.2767	<=20	36.0
Carbon Disulfide	T	Average RF		0.100	1.190	<=20	6.8
Carbon Tetrachloride	T	Quadratic	1/X2	0.05	0.09867	>=0.99	0.9980
Chlorobenzene	T	Average RF		0.500	1.045	<=20	3.6
Chloroethane	T	Average RF		0.100	0.3361	<=20	4.1
Chloroform	T	Average RF		0.200	0.8650	<=20	4.8
Chloromethane	T	Average RF		0.100	0.4731	<=20	7.7
Cyclohexane	T	Average RF		0.100	0.2558	<=20	7.2
Cyclohexanone	T	Average RF			0.07812	<=20	11.0
Dibromochloromethane	T	Average RF		0.100	0.3620	<=20	11.6
Dibromomethane	T	Average RF			0.2221	<=20	8.8
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.4040	<=20	11.5
Dichlorofluoromethane (CFC 21)	T	Average RF			0.8819	<=20	3.6
Dichloromethane	T	Average RF		0.100	0.5180	<=20	5.1
Diethyl Ether	T	Average RF			0.5116	<=20	19.0
Diisopropyl Ether	T	Average RF			1.477	<=20	5.1
Ethyl Methacrylate	T	Average RF			0.4870	<=20	14.8
Ethyl tert-Butyl Ether	T	Average RF			1.525	<=20	5.1
Ethylbenzene	T	Average RF		0.100	0.5404	<=20	4.0
Hexachlorobutadiene	T	Average RF			0.3544	<=20	5.5
Iodomethane	T	Quadratic	1/X2		0.4660	>=0.99	0.9949
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.592	<=20	5.4
Methacrylonitrile	T	Average RF			0.2811	<=20	7.1
Methyl Acetate	T	Average RF		0.100	0.4910	<=20	4.6
Methyl Methacrylate	T	Average RF			0.2885	<=20	9.9
Methyl tert-Butyl Ether	T	Average RF		0.100	1.567	<=20	6.1
Methylcyclohexane	T	Average RF		0.100	0.3457	<=20	4.5
Naphthalene	T	Average RF			3.145	<=20	10.8
Propionitrile	T	Average RF			0.1088	<=20	9.9
Styrene	T	Average RF		0.300	1.094	<=20	8.9
Tetrachloroethene (PCE)	T	Average RF		0.200	0.2965	<=20	3.3
Tetrahydrofuran (THF)	T	Average RF			0.1919	<=20	13.2
Toluene	T	Average RF		0.400	1.447	<=20	3.2
Trichloroethene (TCE)	T	Average RF		0.200	0.3399	<=20	6.1
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.6186	<=20	5.9
Vinyl Acetate	T	Average RF			0.1168	<=20	18.9
Vinyl Chloride	T	Average RF		0.100	0.5143	<=20	4.8
cis-1,2-Dichloroethene	T	Average RF		0.100	0.5462	<=20	5.1
cis-1,3-Dichloropropene	T	Average RF		0.200	0.4906	<=20	12.6
m,p-Xylenes	T	Average RF		0.100	0.6545	<=20	4.2
n-Butyl Acetate	T	Average RF			0.6072	<=20	12.8
n-Butylbenzene	T	Average RF			2.138	<=20	7.4
n-Heptane	T	Average RF			0.2774	<=20	4.8
n-Propylbenzene	T	Average RF			3.563	<=20	3.4

Initial Calibration - Summary Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
o-Xylene	T	Average RF		0.300	0.6531	<=20	5.5
sec-Butylbenzene	T	Average RF			2.918	<=20	5.2
tert-Amyl Methyl Ether	T	Average RF			1.473	<=20	6.2
tert-Butylbenzene	T	Average RF			2.076	<=20	4.0
trans-1,2-Dichloroethene	T	Average RF		0.100	0.4743	<=20	7.0
trans-1,3-Dichloropropene	T	Average RF		0.100	0.4292	<=20	18.2
trans-1,4-Dichloro-2-butene	T	Average RF			0.1260	<=20	16.8
1,2-Dichloroethane-d4	S	Average RF			0.3606	<=20	5.7
4-Bromofluorobenzene	S	Average RF			0.4704	<=20	5.8
Dibromofluoromethane	S	Average RF			0.3169	<=20	5.8
Toluene-d8	S	Average RF			1.237	<=20	6.5

Exceptions

QAP	Method
CRA-OXY	8260C

Compound	Type	Criteria	Result
Bromomethane	RSD	<= 20	36.0

Initial Calibration - Detailed Report

BW 091015

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1500090-01	0.5 ppb	I:\ACQUDATA\MSVOA14\Data\091015\B3055.D	9/10/15 09:09
02	RC1500090-02	1 ppb	I:\ACQUDATA\MSVOA14\Data\091015\B3056.D	9/10/15 09:34
03	RC1500090-03	2 ppb	I:\ACQUDATA\MSVOA14\Data\091015\B3057.D	9/10/15 09:58
04	RC1500090-04	5 ppb	I:\ACQUDATA\MSVOA14\Data\091015\B3058.D	9/10/15 10:22
05	RC1500090-05	20 ppb	I:\ACQUDATA\MSVOA14\Data\091015\B3059.D	9/10/15 10:46
06	RC1500090-06	50 ppb	I:\ACQUDATA\MSVOA14\Data\091015\B3060.D	9/10/15 11:11
07	RC1500090-07	100 ppb	I:\ACQUDATA\MSVOA14\Data\091015\B3061.D	9/10/15 11:35
08	RC1500090-08	150 ppb	I:\ACQUDATA\MSVOA14\Data\091015\B3062.D	9/10/15 11:59
09	RC1500090-09	200 ppb	I:\ACQUDATA\MSVOA14\Data\091015\B3063.D	9/10/15 12:23

Analyte — **Curve Fit** — **Weighting**

1,1,1,2-Tetrachloroethane — Average RF — RSD = 10.3 — Average RF = 0.3311

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2641	02	1.000	0.3139	03	2.000	0.3387	04	5.000	0.3029
05	20.000	0.3310	06	50.000	0.3452	07	100.000	0.3399	08	150.000	0.3749
09	200.000	0.3695									

1,1,1-Trichloroethane (TCA) — Average RF — RSD = 5.2 — Average RF = 0.7013

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6479	02	1.000	0.6716	03	2.000	0.6961	04	5.000	0.6749
05	20.000	0.6932	06	50.000	0.7316	07	100.000	0.6970	08	150.000	0.7643
09	200.000	0.7351									

1,1,2,2-Tetrachloroethane — Average RF — RSD = 6.3 — Average RF = 1.106

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9730	02	1.000	1.035	03	2.000	1.123	04	5.000	1.094
05	20.000	1.146	06	50.000	1.128	07	100.000	1.100	08	150.000	1.218
09	200.000	1.142									

1,1,2-Trichloroethane — Average RF — RSD = 6.3 — Average RF = 0.3365

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3193	02	1.000	0.2935	03	2.000	0.3504	04	5.000	0.3291
05	20.000	0.3404	06	50.000	0.3493	07	100.000	0.3328	08	150.000	0.3650
09	200.000	0.3491									

1,1,2-Trichlorotrifluoroethane — Average RF — RSD = 4.8 — Average RF = 0.4401

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4735	02	1.000	0.4429	03	2.000	0.4330	04	5.000	0.4102
05	20.000	0.4249	06	50.000	0.4583	07	100.000	0.4172	08	150.000	0.4608
09	200.000	0.4400									

1,1-Dichloroethane (1,1-DCA) — Average RF — RSD = 3.0 — Average RF = 0.8365

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8166	02	1.000	0.8309	03	2.000	0.8562	04	5.000	0.7994
05	20.000	0.8294	06	50.000	0.8559	07	100.000	0.8151	08	150.000	0.8809
09	200.000	0.8437									

1,1-Dichloroethene (1,1-DCE) — Average RF — RSD = 4.6 — Average RF = 0.4328

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4353	02	1.000	0.4612	03	2.000	0.4261	04	5.000	0.3952
05	20.000	0.4304	06	50.000	0.4416	07	100.000	0.4154	08	150.000	0.4544
09	200.000	0.4357									

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte **Curve Fit** **Weighting**

1,1-Dichloropropene Average RF RSD = 4.2 Average RF = 0.4225

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4621	02	1.000	0.4168	03	2.000	0.4132	04	5.000	0.4144
05	20.000	0.4124	06	50.000	0.4233	07	100.000	0.4003	08	150.000	0.4360
09	200.000	0.4241									

1,2,3-Trichlorobenzene Average RF RSD = 5.7 Average RF = 0.9539

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8817	02	1.000	0.9066	03	2.000	0.9402	04	5.000	0.9316
05	20.000	0.9369	06	50.000	0.9813	07	100.000	0.9464	08	150.000	1.068
09	200.000	0.9925									

1,2,3-Trichloropropane Average RF RSD = 8.5 Average RF = 0.3303

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2765	02	1.000	0.2928	03	2.000	0.3611	04	5.000	0.3423
05	20.000	0.3453	06	50.000	0.3373	07	100.000	0.3275	08	150.000	0.3556
09	200.000	0.3340									

1,2,4-Trichlorobenzene Average RF RSD = 6.6 Average RF = 0.9741

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8711	02	1.000	0.9187	03	2.000	1.025	04	5.000	0.9502
05	20.000	0.9414	06	50.000	1.005	07	100.000	0.9571	08	150.000	1.082
09	200.000	1.016									

1,2,4-Trimethylbenzene Average RF RSD = 5.8 Average RF = 2.572

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.294	02	1.000	2.389	03	2.000	2.675	04	5.000	2.593
05	20.000	2.653	06	50.000	2.724	07	100.000	2.492	08	150.000	2.694
09	200.000	2.630									

1,2-Dibromo-3-chloropropane (DBCP) Average RF RSD = 16.1 Average RF = 0.2253

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1664	02	1.000	0.2016	03	2.000	0.2136	04	5.000	0.2005
05	20.000	0.2173	06	50.000	0.2316	07	100.000	0.2459	08	150.000	0.2845
09	200.000	0.2663									

1,2-Dibromoethane Average RF RSD = 8.6 Average RF = 0.3807

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3113	02	1.000	0.3693	03	2.000	0.3898	04	5.000	0.3606
05	20.000	0.3795	06	50.000	0.3931	07	100.000	0.3869	08	150.000	0.4261
09	200.000	0.4100									

1,2-Dichloro-1,1,2-trifluoroethane (CFC Average RF RSD = 2.0 Average RF = 0.5568

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5430	02	1.000	0.5478	03	2.000	0.5622	04	5.000	0.5573
05	20.000	0.5451	06	50.000	0.5677	07	100.000	0.5510	08	150.000	0.5764
09	200.000	0.5606									

1,2-Dichlorobenzene Average RF RSD = 4.8 Average RF = 1.541

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.416	02	1.000	1.464	03	2.000	1.636	04	5.000	1.546
05	20.000	1.556	06	50.000	1.582	07	100.000	1.482	08	150.000	1.630
09	200.000	1.555									

Initial Calibration - Detailed Report

Calibration ID: RC1500090 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte **Curve Fit** **Weighting**

1,2-Dichloroethane Average RF RSD = 3.5 Average RF = 0.4547

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4269	02	1.000	0.4557	03	2.000	0.4814	04	5.000	0.4499
05	20.000	0.4563	06	50.000	0.4606	07	100.000	0.4381	08	150.000	0.4705
09	200.000	0.4531									

1,2-Dichloroethane-d4 Average RF RSD = 5.7 Average RF = 0.3606

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3883	05	20.000	0.3325	06	50.000	0.3676	07	100.000	0.3640
08	200.000	0.3510									

1,2-Dichloropropane Average RF RSD = 4.2 Average RF = 0.3387

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3161	02	1.000	0.3396	03	2.000	0.3528	04	5.000	0.3233
05	20.000	0.3366	06	50.000	0.3435	07	100.000	0.3284	08	150.000	0.3589
09	200.000	0.3494									

1,3,5-Trichlorobenzene Average RF RSD = 5.3 Average RF = 0.9917

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8841	02	1.000	0.9952	03	2.000	0.9798	04	5.000	1.004
05	20.000	0.9682	06	50.000	1.003	07	100.000	0.9852	08	150.000	1.086
09	200.000	1.020									

1,3,5-Trimethylbenzene Average RF RSD = 5.8 Average RF = 2.507

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.195	02	1.000	2.416	03	2.000	2.563	04	5.000	2.524
05	20.000	2.631	06	50.000	2.676	07	100.000	2.420	08	150.000	2.602
09	200.000	2.540									

1,3-Dichlorobenzene Average RF RSD = 4.1 Average RF = 1.530

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.440	02	1.000	1.464	03	2.000	1.613	04	5.000	1.523
05	20.000	1.559	06	50.000	1.577	07	100.000	1.462	08	150.000	1.591
09	200.000	1.545									

1,3-Dichloropropane Average RF RSD = 4.3 Average RF = 0.6376

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5911	02	1.000	0.6101	03	2.000	0.6658	04	5.000	0.6278
05	20.000	0.6490	06	50.000	0.6566	07	100.000	0.6193	08	150.000	0.6747
09	200.000	0.6445									

1,4-Dichlorobenzene Average RF RSD = 3.1 Average RF = 1.598

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.590	02	1.000	1.612	03	2.000	1.676	04	5.000	1.596
05	20.000	1.597	06	50.000	1.619	07	100.000	1.492	08	150.000	1.623
09	200.000	1.572									

1,4-Dioxane Average RF RSD = 11.8 Average RF = 0.007199

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.006562	02	20.000	0.005553	03	40.000	0.007079	04	100.000	0.007265
05	400.000	0.007275	06	1000.000	0.007194	07	2000.000	0.007562	08	3000.000	0.008753
09	4000.000	0.007553									

Initial Calibration - Detailed Report

Calibration ID: RC1500090 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte **Curve Fit** **Weighting**

1-Butanol Quadratic 1/X2 COD = 0.9982 Y = 4.962E-5 X² + 0.01296 X + -0.002214

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	25.000	0.008580	02	50.000	0.01067	03	100.000	0.01204	04	250.000	0.01295
05	1000.000	0.01424	06	2500.000	0.01504	07	5000.000	0.01712	08	7500.000	0.02097

1-Chloro-4-(trifluoromethyl)benzene Average RF RSD = 4.0 Average RF = 0.4718

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4366	02	1.000	0.4733	03	2.000	0.4830	04	5.000	0.4548
05	20.000	0.4701	06	50.000	0.4843	07	100.000	0.4642	08	150.000	0.5021
09	200.000	0.4782									

2,2-Dichloro-1,1,1-trifluoroethane (CFC Average RF RSD = 5.3 Average RF = 0.6622

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5954	02	1.000	0.6728	03	2.000	0.6879	04	5.000	0.6258
05	20.000	0.6377	06	50.000	0.6899	07	100.000	0.6699	08	150.000	0.7030
09	200.000	0.6772									

2,2-Dichloropropane Average RF RSD = 6.5 Average RF = 0.6529

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6448	02	1.000	0.6453	03	2.000	0.6070	04	5.000	0.5919
05	20.000	0.6412	06	50.000	0.6719	07	100.000	0.6461	08	150.000	0.7288
09	200.000	0.6988									

2,3,6-Trichlorotoluene Average RF RSD = 9.3 Average RF = 0.5059

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4576	02	1.000	0.4663	03	2.000	0.4717	04	5.000	0.4902
05	20.000	0.4767	06	50.000	0.5101	07	100.000	0.5261	08	150.000	0.5994
09	200.000	0.5554									

2,4,5-Trichlorotoluene Average RF RSD = 16.2 Average RF = 0.5392

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4404	02	1.000	0.4282	03	2.000	0.4743	04	5.000	0.5072
05	20.000	0.5254	06	50.000	0.5644	07	100.000	0.5929	08	150.000	0.6846
09	200.000	0.6352									

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut Average RF RSD = 6.7 Average RF = 1.178

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.500	1.031	02	3.000	1.127	03	6.000	1.167	04	15.000	1.146
05	60.000	1.176	06	150.000	1.213	07	300.000	1.183	08	450.000	1.320
09	600.000	1.237									

2,4-Dichlorobenzotrifluoride Average RF RSD = 4.3 Average RF = 0.6436

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5970	02	1.000	0.6492	03	2.000	0.6822	04	5.000	0.6306
05	20.000	0.6333	06	50.000	0.6429	07	100.000	0.6217	08	150.000	0.6855
09	200.000	0.6498									

2,5-Dichlorobenzotrifluoride Average RF RSD = 4.1 Average RF = 0.7415

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7748	02	1.000	0.7612	03	2.000	0.7377	04	5.000	0.6936
05	20.000	0.7286	06	50.000	0.7412	07	100.000	0.7068	08	150.000	0.7889
09	200.000	0.7402									

Initial Calibration - Detailed Report

Calibration ID: RC1500090 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte **Curve Fit** **Weighting**

2-Butanone (MEK) Average RF RSD = 4.1 Average RF = 0.3283

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3404	02	1.000	0.3394	03	2.000	0.3232	04	5.000	0.3155
05	20.000	0.3286	06	50.000	0.3147	07	100.000	0.3174	08	150.000	0.3540
09	200.000	0.3213									

2-Chloro-1,3-butadiene Average RF RSD = 5.7 Average RF = 0.7685

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6882	02	1.000	0.7686	03	2.000	0.7464	04	5.000	0.7351
05	20.000	0.7465	06	50.000	0.8067	07	100.000	0.7852	08	150.000	0.8255
09	200.000	0.8138									

2-Chlorobenzotrifluoride Average RF RSD = 3.8 Average RF = 0.5238

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5294	02	1.000	0.4922	03	2.000	0.5412	04	5.000	0.5063
05	20.000	0.5203	06	50.000	0.5304	07	100.000	0.5115	08	150.000	0.5607
09	200.000	0.5219									

2-Chloroethyl Vinyl Ether Average RF RSD = 16.5 Average RF = 0.2141

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1411	02	1.000	0.1822	03	2.000	0.2128	04	5.000	0.2064
05	20.000	0.2177	06	50.000	0.2288	07	100.000	0.2322	08	150.000	0.2580
09	200.000	0.2474									

2-Chlorotoluene Average RF RSD = 5.0 Average RF = 2.282

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.059	02	1.000	2.359	03	2.000	2.444	04	5.000	2.308
05	20.000	2.325	06	50.000	2.336	07	100.000	2.159	08	150.000	2.296
09	200.000	2.252									

2-Hexanone Average RF RSD = 13.6 Average RF = 0.3150

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2538	02	1.000	0.2452	03	2.000	0.3278	04	5.000	0.3003
05	20.000	0.3223	06	50.000	0.3263	07	100.000	0.3361	08	150.000	0.3809
09	200.000	0.3419									

2-Methyl-1-propanol Average RF RSD = 17.8 Average RF = 0.02167

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.01545	02	20.000	0.01880	03	40.000	0.01936	04	100.000	0.02066
05	400.000	0.02141	06	1000.000	0.02194	07	2000.000	0.02386	08	3000.000	0.02878
09	4000.000	0.02480									

2-Methyl-2-propanol Average RF RSD = 13.5 Average RF = 0.08004

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.06458	02	20.000	0.06938	03	40.000	0.07437	04	100.000	0.07967
05	400.000	0.07850	06	1000.000	0.07933	07	2000.000	0.08537	08	3000.000	0.1013
09	4000.000	0.08783									

2-Nitropropane Quadratic 1/X2 COD = 0.9945 $Y = 0.004579 X^2 + 0.06604 X + -3.265E-4$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.05151	02	2.000	0.05506	03	4.000	0.06239	04	10.000	0.06283
05	40.000	0.06892	06	100.000	0.07752	07	200.000	0.08556	08	300.000	0.09932
09	400.000	0.09707									

Initial Calibration - Detailed Report

Calibration ID: RC1500090 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte **Curve Fit** **Weighting**

2-Propanol Average RF RSD = 15.4 Average RF = 0.04645

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.03391	02	20.000	0.04103	03	40.000	0.04516	04	100.000	0.04574
05	400.000	0.04493	06	1000.000	0.04557	07	2000.000	0.05021	08	3000.000	0.05975
09	4000.000	0.05172									

3,4- and 2,3-Dichlorotoluene Coelution Average RF RSD = 7.6 Average RF = 1.342

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.155	02	2.000	1.283	03	4.000	1.298	04	10.000	1.316
05	40.000	1.329	06	100.000	1.372	07	200.000	1.369	08	300.000	1.526
09	400.000	1.429									

3,4-Dichlorobenzotrifluoride Average RF RSD = 3.1 Average RF = 0.7106

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6859	02	1.000	0.7275	03	2.000	0.7160	04	5.000	0.6945
05	20.000	0.7066	06	50.000	0.7138	07	100.000	0.6828	08	150.000	0.7543
09	200.000	0.7138									

3-Chloro-1-propene Average RF RSD = 10.6 Average RF = 0.2389

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1787	02	1.000	0.2302	03	2.000	0.2397	04	5.000	0.2304
05	20.000	0.2489	06	50.000	0.2609	07	100.000	0.2501	08	150.000	0.2615
09	200.000	0.2496									

3-Chlorobenzotrifluoride Average RF RSD = 5.0 Average RF = 0.5219

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5044	02	1.000	0.4665	03	2.000	0.5369	04	5.000	0.5161
05	20.000	0.5284	06	50.000	0.5395	07	100.000	0.5155	08	150.000	0.5596
09	200.000	0.5305									

3-Chlorotoluene Average RF RSD = 4.1 Average RF = 2.336

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.112	02	1.000	2.374	03	2.000	2.394	04	5.000	2.318
05	20.000	2.403	06	50.000	2.379	07	100.000	2.279	08	150.000	2.420
09	200.000	2.341									

4-Bromofluorobenzene Average RF RSD = 5.8 Average RF = 0.4704

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.5000	05	20.000	0.4259	06	50.000	0.4770	07	100.000	0.4751
08	200.000	0.4740									

4-Chlorotoluene Average RF RSD = 4.2 Average RF = 2.627

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.389	02	1.000	2.661	03	2.000	2.689	04	5.000	2.639
05	20.000	2.709	06	50.000	2.740	07	100.000	2.509	08	150.000	2.678
09	200.000	2.626									

4-Isopropyltoluene Average RF RSD = 4.5 Average RF = 2.418

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.278	02	1.000	2.305	03	2.000	2.414	04	5.000	2.438
05	20.000	2.512	06	50.000	2.553	07	100.000	2.286	08	150.000	2.545
09	200.000	2.434									

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte **Curve Fit** **Weighting**

4-Methyl-2-pentanone Average RF RSD = 9.3 Average RF = 0.3751

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3133	02	1.000	0.3460	03	2.000	0.3644	04	5.000	0.3716
05	20.000	0.3741	06	50.000	0.3780	07	100.000	0.3882	08	150.000	0.4384
09	200.000	0.4021									

Acetone Average RF RSD = 11.9 Average RF = 0.2347

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.2865	05	20.000	0.2361	06	50.000	0.2224	07	100.000	0.2207
08	150.000	0.2374	09	200.000	0.2053						

Acetonitrile Average RF RSD = 3.9 Average RF = 0.05193

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.05387	02	5.000	0.05407	03	10.000	0.05063	04	25.000	0.05031
05	100.000	0.05060	06	250.000	0.04973	07	500.000	0.05120	08	750.000	0.05551
09	1000.000	0.05148									

Acrolein Average RF RSD = 11.0 Average RF = 0.1279

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.09905	02	5.000	0.1148	03	10.000	0.1283	04	25.000	0.1260
05	100.000	0.1331	06	250.000	0.1321	07	500.000	0.1318	08	750.000	0.1480
09	1000.000	0.1379									

Acrylonitrile Average RF RSD = 7.8 Average RF = 0.2650

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2251	02	5.000	0.2441	03	10.000	0.2615	04	25.000	0.2623
05	100.000	0.2750	06	250.000	0.2708	07	500.000	0.2724	08	750.000	0.2981
09	1000.000	0.2754									

Benzene Average RF RSD = 3.9 Average RF = 1.335

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.228	02	1.000	1.387	03	2.000	1.376	04	5.000	1.315
05	20.000	1.335	06	50.000	1.359	07	100.000	1.284	08	150.000	1.386
09	200.000	1.345									

Bromobenzene Average RF RSD = 3.1 Average RF = 0.8427

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8205	02	1.000	0.8335	03	2.000	0.8797	04	5.000	0.8278
05	20.000	0.8543	06	50.000	0.8701	07	100.000	0.7986	08	150.000	0.8630
09	200.000	0.8370									

Bromochloromethane Average RF RSD = 6.7 Average RF = 0.3455

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2980	02	1.000	0.3798	03	2.000	0.3394	04	5.000	0.3325
05	20.000	0.3572	06	50.000	0.3591	07	100.000	0.3370	08	150.000	0.3628
09	200.000	0.3435									

Bromodichloromethane Average RF RSD = 10.6 Average RF = 0.4067

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3274	02	1.000	0.3720	03	2.000	0.3875	04	5.000	0.3871
05	20.000	0.4126	06	50.000	0.4318	07	100.000	0.4224	08	150.000	0.4627
09	200.000	0.4573									

Initial Calibration - Detailed Report

Calibration ID: RC1500090 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Bromoform Average RF RSD = 19.8 Average RF = 0.2461

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1717	02	1.000	0.1874	03	2.000	0.2344	04	5.000	0.2221
05	20.000	0.2443	06	50.000	0.2612	07	100.000	0.2745	08	150.000	0.3162
09	200.000	0.3032									

Bromomethane Average RF RSD = 36.0 Average RF = 0.2767

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3881	02	1.000	0.3826	03	2.000	0.3633	04	5.000	0.2727
05	20.000	0.3224	06	50.000	0.3004	07	100.000	0.1456	08	150.000	0.1493
09	200.000	0.1659									

Carbon Disulfide Average RF RSD = 6.8 Average RF = 1.190

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.109	02	1.000	1.185	03	2.000	1.133	04	5.000	1.102
05	20.000	1.125	06	50.000	1.220	07	100.000	1.215	08	150.000	1.311
09	200.000	1.310									

Carbon Tetrachloride Quadratic 1/X2 COD = 0.9980 $Y = 0.006359 X^2 + 0.1034 X + -5.780E-4$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.05151	02	1.000	0.06457	03	2.000	0.08798	04	5.000	0.09022
05	20.000	0.1109	06	50.000	0.1200	07	100.000	0.1127	08	150.000	0.1253
09	200.000	0.1249									

Chlorobenzene Average RF RSD = 3.6 Average RF = 1.045

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9743	02	1.000	1.060	03	2.000	1.077	04	5.000	1.041
05	20.000	1.050	06	50.000	1.069	07	100.000	0.9949	08	150.000	1.087
09	200.000	1.049									

Chloroethane Average RF RSD = 4.1 Average RF = 0.3361

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3372	02	1.000	0.3512	03	2.000	0.3130	04	5.000	0.3187
05	20.000	0.3389	06	50.000	0.3498	07	100.000	0.3277	08	150.000	0.3495
09	200.000	0.3391									

Chloroform Average RF RSD = 4.8 Average RF = 0.8650

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7731	02	1.000	0.8654	03	2.000	0.8653	04	5.000	0.8428
05	20.000	0.8837	06	50.000	0.8985	07	100.000	0.8568	08	150.000	0.9222
09	200.000	0.8772									

Chloromethane Average RF RSD = 7.7 Average RF = 0.4731

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4560	02	1.000	0.5520	03	2.000	0.4381	04	5.000	0.4384
05	20.000	0.4571	06	50.000	0.4791	07	100.000	0.4535	08	150.000	0.5061
09	200.000	0.4777									

Cyclohexane Average RF RSD = 7.2 Average RF = 0.2558

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2163	02	1.000	0.2652	03	2.000	0.2839	04	5.000	0.2533
05	20.000	0.2460	06	50.000	0.2609	07	100.000	0.2501	08	150.000	0.2667
09	200.000	0.2602									

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte **Curve Fit** **Weighting**

Cyclohexanone Average RF RSD = 11.0 Average RF = 0.07812

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.06611	02	20.000	0.06921	03	40.000	0.07589	04	100.000	0.07905
05	400.000	0.08033	06	1000.000	0.07997	07	2000.000	0.08207	08	3000.000	0.09616
09	4000.000	0.07429									

Dibromochloromethane Average RF RSD = 11.6 Average RF = 0.3620

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3146	02	1.000	0.3205	03	2.000	0.3337	04	5.000	0.3260
05	20.000	0.3545	06	50.000	0.3838	07	100.000	0.3822	08	150.000	0.4270
09	200.000	0.4155									

Dibromofluoromethane Average RF RSD = 5.8 Average RF = 0.3169

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3408	05	20.000	0.2902	06	50.000	0.3214	07	100.000	0.3218
08	200.000	0.3105									

Dibromomethane Average RF RSD = 8.8 Average RF = 0.2221

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1775	02	1.000	0.2086	03	2.000	0.2309	04	5.000	0.2176
05	20.000	0.2288	06	50.000	0.2296	07	100.000	0.2251	08	150.000	0.2442
09	200.000	0.2362									

Dichlorodifluoromethane (CFC 12) Average RF RSD = 11.5 Average RF = 0.4040

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3531	02	1.000	0.3541	03	2.000	0.3610	04	5.000	0.3616
05	20.000	0.4248	06	50.000	0.4495	07	100.000	0.4220	08	150.000	0.4710
09	200.000	0.4386									

Dichlorofluoromethane (CFC 21) Average RF RSD = 3.6 Average RF = 0.8819

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8722	02	1.000	0.9134	03	2.000	0.8571	04	5.000	0.8507
05	20.000	0.8435	06	50.000	0.9031	07	100.000	0.8716	08	150.000	0.9392
09	200.000	0.8864									

Dichloromethane Average RF RSD = 5.1 Average RF = 0.5180

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4793	02	1.000	0.5486	03	2.000	0.5170	04	5.000	0.4815
05	20.000	0.5183	06	50.000	0.5279	07	100.000	0.5092	08	150.000	0.5570
09	200.000	0.5231									

Diethyl Ether Average RF RSD = 19.0 Average RF = 0.5116

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7423	02	1.000	0.5687	03	2.000	0.5441	04	5.000	0.4753
05	20.000	0.4571	06	50.000	0.4587	07	100.000	0.4409	08	150.000	0.4714
09	200.000	0.4458									

Diisopropyl Ether Average RF RSD = 5.1 Average RF = 1.477

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.312	02	1.000	1.429	03	2.000	1.506	04	5.000	1.477
05	20.000	1.513	06	50.000	1.514	07	100.000	1.447	08	150.000	1.579
09	200.000	1.515									

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte — **Curve Fit** — **Weighting**

Ethyl Methacrylate — Average RF — RSD = 14.8 — Average RF = 0.4870

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3814	02	1.000	0.3803	03	2.000	0.4744	04	5.000	0.4569
05	20.000	0.5019	06	50.000	0.5168	07	100.000	0.5240	08	150.000	0.5907
09	200.000	0.5566									

Ethyl tert-Butyl Ether — Average RF — RSD = 5.1 — Average RF = 1.525

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.354	02	1.000	1.527	03	2.000	1.567	04	5.000	1.500
05	20.000	1.538	06	50.000	1.535	07	100.000	1.490	08	150.000	1.636
09	200.000	1.576									

Ethylbenzene — Average RF — RSD = 4.0 — Average RF = 0.5404

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5204	02	1.000	0.5039	03	2.000	0.5492	04	5.000	0.5355
05	20.000	0.5504	06	50.000	0.5611	07	100.000	0.5218	08	150.000	0.5704
09	200.000	0.5505									

Hexachlorobutadiene — Average RF — RSD = 5.5 — Average RF = 0.3544

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3882	02	1.000	0.3560	03	2.000	0.3567	04	5.000	0.3422
05	20.000	0.3364	06	50.000	0.3531	07	100.000	0.3284	08	150.000	0.3806
09	200.000	0.3477									

Iodomethane — Quadratic — 1/X2 — COD = 0.9949 — $Y = 0.04415\ X^2 + 0.4354\ X + -0.006344$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.3009	04	5.000	0.3194	05	20.000	0.4186	06	50.000	0.5255
07	100.000	0.5330	08	150.000	0.5840	09	200.000	0.5803			

Isopropylbenzene (Cumene) — Average RF — RSD = 5.4 — Average RF = 1.592

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.420	02	1.000	1.518	03	2.000	1.673	04	5.000	1.614
05	20.000	1.621	06	50.000	1.669	07	100.000	1.532	08	150.000	1.671
09	200.000	1.615									

Methacrylonitrile — Average RF — RSD = 7.1 — Average RF = 0.2811

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2466	02	1.000	0.2998	03	2.000	0.2796	04	5.000	0.2546
05	20.000	0.2830	06	50.000	0.2850	07	100.000	0.2836	08	150.000	0.3101
09	200.000	0.2874									

Methyl Acetate — Average RF — RSD = 4.6 — Average RF = 0.4910

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5085	02	1.000	0.5249	03	2.000	0.5055	04	5.000	0.4720
05	20.000	0.4662	06	50.000	0.4706	07	100.000	0.4731	08	150.000	0.5168
09	200.000	0.4811									

Methyl Methacrylate — Average RF — RSD = 9.9 — Average RF = 0.2885

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2529	02	1.000	0.2451	03	2.000	0.2848	04	5.000	0.2754
05	20.000	0.2861	06	50.000	0.2990	07	100.000	0.3018	08	150.000	0.3350
09	200.000	0.3165									

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte **Curve Fit** **Weighting**

Methyl tert-Butyl Ether Average RF RSD = 6.1 Average RF = 1.567

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.382	02	1.000	1.457	03	2.000	1.641	04	5.000	1.547
05	20.000	1.581	06	50.000	1.617	07	100.000	1.570	08	150.000	1.701
09	200.000	1.607									

Methylcyclohexane Average RF RSD = 4.5 Average RF = 0.3457

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3320	02	1.000	0.3243	03	2.000	0.3500	04	5.000	0.3493
05	20.000	0.3258	06	50.000	0.3555	07	100.000	0.3461	08	150.000	0.3704
09	200.000	0.3582									

Naphthalene Average RF RSD = 10.8 Average RF = 3.145

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.585	02	1.000	2.765	03	2.000	3.000	04	5.000	3.033
05	20.000	3.182	06	50.000	3.311	07	100.000	3.303	08	150.000	3.682
09	200.000	3.448									

Propionitrile Average RF RSD = 9.9 Average RF = 0.1088

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.08759	02	5.000	0.09887	03	10.000	0.1082	04	25.000	0.1102
05	100.000	0.1106	06	250.000	0.1098	07	500.000	0.1134	08	750.000	0.1271
09	1000.000	0.1134									

Styrene Average RF RSD = 8.9 Average RF = 1.094

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9081	02	1.000	0.9959	03	2.000	1.095	04	5.000	1.048
05	20.000	1.130	06	50.000	1.177	07	100.000	1.110	08	150.000	1.217
09	200.000	1.170									

Tetrachloroethene (PCE) Average RF RSD = 3.3 Average RF = 0.2965

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2920	02	1.000	0.3107	03	2.000	0.3028	04	5.000	0.2893
05	20.000	0.2909	06	50.000	0.3055	07	100.000	0.2794	08	150.000	0.3038
09	200.000	0.2936									

Tetrahydrofuran (THF) Average RF RSD = 13.2 Average RF = 0.1919

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1458	02	1.000	0.1516	03	2.000	0.2051	04	5.000	0.1978
05	20.000	0.2042	06	50.000	0.2023	07	100.000	0.1988	08	150.000	0.2201
09	200.000	0.2013									

Toluene Average RF RSD = 3.2 Average RF = 1.447

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.379	02	1.000	1.480	03	2.000	1.498	04	5.000	1.420
05	20.000	1.441	06	50.000	1.472	07	100.000	1.377	08	150.000	1.500
09	200.000	1.457									

Toluene-d8 Average RF RSD = 6.5 Average RF = 1.237

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.357	05	20.000	1.145	06	50.000	1.253	07	100.000	1.240
08	200.000	1.187									

Initial Calibration - Detailed Report

Calibration ID: RC1500090 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte	Curve Fit	Weighting

Trichloroethene (TCE) — Average RF — RSD = 6.1 — Average RF = 0.3399

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3009	02	1.000	0.3223	03	2.000	0.3687	04	5.000	0.3335
05	20.000	0.3402	06	50.000	0.3517	07	100.000	0.3327	08	150.000	0.3608
09	200.000	0.3487									

Trichlorofluoromethane (CFC 11) — Average RF — RSD = 5.9 — Average RF = 0.6186

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5944	02	1.000	0.6213	03	2.000	0.5883	04	5.000	0.5873
05	20.000	0.6268	06	50.000	0.6531	07	100.000	0.5895	08	150.000	0.6960
09	200.000	0.6108									

Vinyl Acetate — Average RF — RSD = 18.9 — Average RF = 0.1168

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.08059	02	1.000	0.09304	03	2.000	0.1083	04	5.000	0.1045
05	20.000	0.1182	06	50.000	0.1293	07	100.000	0.1288	08	150.000	0.1465
09	200.000	0.1419									

Vinyl Chloride — Average RF — RSD = 4.8 — Average RF = 0.5143

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5027	02	1.000	0.4895	03	2.000	0.5019	04	5.000	0.4860
05	20.000	0.5221	06	50.000	0.5388	07	100.000	0.5020	08	150.000	0.5615
09	200.000	0.5238									

cis-1,2-Dichloroethene — Average RF — RSD = 5.1 — Average RF = 0.5462

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4830	02	1.000	0.5438	03	2.000	0.5546	04	5.000	0.5324
05	20.000	0.5528	06	50.000	0.5637	07	100.000	0.5418	08	150.000	0.5849
09	200.000	0.5583									

cis-1,3-Dichloropropene — Average RF — RSD = 12.6 — Average RF = 0.4906

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4061	02	1.000	0.4258	03	2.000	0.4506	04	5.000	0.4403
05	20.000	0.5058	06	50.000	0.5255	07	100.000	0.5199	08	150.000	0.5791
09	200.000	0.5625									

m,p-Xylenes — Average RF — RSD = 4.2 — Average RF = 0.6545

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6153	02	2.000	0.6147	03	4.000	0.6776	04	10.000	0.6530
05	40.000	0.6661	06	100.000	0.6809	07	200.000	0.6329	08	300.000	0.6834
09	400.000	0.6662									

n-Butyl Acetate — Average RF — RSD = 12.8 — Average RF = 0.6072

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4691	02	1.000	0.5180	03	2.000	0.5920	04	5.000	0.5945
05	20.000	0.6146	06	50.000	0.6295	07	100.000	0.6425	08	150.000	0.7270
09	200.000	0.6774									

n-Butylbenzene — Average RF — RSD = 7.4 — Average RF = 2.138

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.899	02	1.000	1.912	03	2.000	2.100	04	5.000	2.114
05	20.000	2.249	06	50.000	2.314	07	100.000	2.092	08	150.000	2.333
09	200.000	2.228									

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte **Curve Fit** **Weighting**

n-Heptane Average RF RSD = 4.8 Average RF = 0.2774

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2808	02	1.000	0.2711	03	2.000	0.2852	04	5.000	0.2571
05	20.000	0.2816	06	50.000	0.2898	07	100.000	0.2576	08	150.000	0.2961
09	200.000	0.2772									

n-Propylbenzene Average RF RSD = 3.4 Average RF = 3.563

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.460	02	1.000	3.447	03	2.000	3.657	04	5.000	3.598
05	20.000	3.673	06	50.000	3.745	07	100.000	3.363	08	150.000	3.593
09	200.000	3.535									

o-Xylene Average RF RSD = 5.5 Average RF = 0.6531

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5759	02	1.000	0.6383	03	2.000	0.6945	04	5.000	0.6555
05	20.000	0.6598	06	50.000	0.6830	07	100.000	0.6261	08	150.000	0.6819
09	200.000	0.6631									

sec-Butylbenzene Average RF RSD = 5.2 Average RF = 2.918

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.609	02	1.000	2.890	03	2.000	2.945	04	5.000	2.996
05	20.000	3.035	06	50.000	3.093	07	100.000	2.766	08	150.000	3.022
09	200.000	2.905									

tert-Amyl Methyl Ether Average RF RSD = 6.2 Average RF = 1.473

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.282	02	1.000	1.425	03	2.000	1.523	04	5.000	1.451
05	20.000	1.478	06	50.000	1.486	07	100.000	1.453	08	150.000	1.608
09	200.000	1.550									

tert-Butylbenzene Average RF RSD = 4.0 Average RF = 2.076

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.919	02	1.000	2.057	03	2.000	2.104	04	5.000	2.119
05	20.000	2.130	06	50.000	2.171	07	100.000	1.970	08	150.000	2.137
09	200.000	2.074									

trans-1,2-Dichloroethene Average RF RSD = 7.0 Average RF = 0.4743

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3929	02	1.000	0.4779	03	2.000	0.4863	04	5.000	0.4646
05	20.000	0.4819	06	50.000	0.4952	07	100.000	0.4725	08	150.000	0.5089
09	200.000	0.4888									

trans-1,3-Dichloropropene Average RF RSD = 18.2 Average RF = 0.4292

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3052	02	1.000	0.3531	03	2.000	0.3732	04	5.000	0.3927
05	20.000	0.4367	06	50.000	0.4752	07	100.000	0.4711	08	150.000	0.5321
09	200.000	0.5233									

trans-1,4-Dichloro-2-butene Average RF RSD = 16.8 Average RF = 0.1260

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.09776	02	1.000	0.09886	03	2.000	0.1153	04	5.000	0.1178
05	20.000	0.1245	06	50.000	0.1361	07	100.000	0.1360	08	150.000	0.1615
09	200.000	0.1459									

Initial Calibration - Detailed Report

Calibration ID: RC1500090 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte

1,1,1,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.40	-20.2	02	1.000	0.95	-5.2	03	2.000	2.05	2.3
04	5.000	4.57	-8.5	05	20.000	19.99	0.0	06	50.000	52.12	4.2
07	100.000	102.65	2.6	08	150.000	169.83	13.2	09	200.000	223.21	11.6

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.6	02	1.000	0.96	-4.2	03	2.000	1.99	-0.7
04	5.000	4.81	-3.8	05	20.000	19.77	-1.2	06	50.000	52.16	4.3
07	100.000	99.39	-0.6	08	150.000	163.48	9.0	09	200.000	209.64	4.8

1,1,2,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-12.1	02	1.000	0.94	-6.5	03	2.000	2.03	1.5
04	5.000	4.94	-1.1	05	20.000	20.72	3.6	06	50.000	50.96	1.9
07	100.000	99.42	-0.6	08	150.000	165.13	10.1	09	200.000	206.35	3.2

1,1,2-Trichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.1	02	1.000	0.87	-12.8	03	2.000	2.08	4.1
04	5.000	4.89	-2.2	05	20.000	20.23	1.1	06	50.000	51.90	3.8
07	100.000	98.88	-1.1	08	150.000	162.68	8.5	09	200.000	207.47	3.7

1,1,2-Trichlorotrifluoroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.6	02	1.000	1.01	0.6	03	2.000	1.97	-1.6
04	5.000	4.66	-6.8	05	20.000	19.31	-3.5	06	50.000	52.07	4.1
07	100.000	94.80	-5.2	08	150.000	157.06	4.7	09	200.000	199.97	0.0

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.4	02	1.000	0.99	-0.7	03	2.000	2.05	2.4
04	5.000	4.78	-4.4	05	20.000	19.83	-0.8	06	50.000	51.16	2.3
07	100.000	97.45	-2.5	08	150.000	157.97	5.3	09	200.000	201.72	0.9

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.6	02	1.000	1.07	6.6	03	2.000	1.97	-1.6
04	5.000	4.57	-8.7	05	20.000	19.89	-0.6	06	50.000	51.01	2.0
07	100.000	95.97	-4.0	08	150.000	157.49	5.0	09	200.000	201.35	0.7

1,1-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.4	02	1.000	0.99	-1.4	03	2.000	1.96	-2.2
04	5.000	4.90	-1.9	05	20.000	19.52	-2.4	06	50.000	50.09	0.2
07	100.000	94.74	-5.3	08	150.000	154.80	3.2	09	200.000	200.74	0.4

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

1,2,3-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.6	02	1.000	0.95	-5.0	03	2.000	1.97	-1.4
04	5.000	4.88	-2.3	05	20.000	19.64	-1.8	06	50.000	51.43	2.9
07	100.000	99.21	-0.8	08	150.000	167.96	12.0	09	200.000	208.10	4.0

1,2,3-Trichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.42	-16.3	02	1.000	0.89	-11.3	03	2.000	2.19	9.3
04	5.000	5.18	3.6	05	20.000	20.91	4.5	06	50.000	51.06	2.1
07	100.000	99.17	-0.8	08	150.000	161.49	7.7	09	200.000	202.28	1.1

1,2,4-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.6	02	1.000	0.94	-5.7	03	2.000	2.10	5.2
04	5.000	4.88	-2.5	05	20.000	19.33	-3.4	06	50.000	51.60	3.2
07	100.000	98.26	-1.7	08	150.000	166.65	11.1	09	200.000	208.53	4.3

1,2,4-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.8	02	1.000	0.93	-7.1	03	2.000	2.08	4.0
04	5.000	5.04	0.8	05	20.000	20.63	3.2	06	50.000	52.96	5.9
07	100.000	96.91	-3.1	08	150.000	157.16	4.8	09	200.000	204.54	2.3

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.37	-26.1	02	1.000	0.89	-10.5	03	2.000	1.90	-5.2
04	5.000	4.45	-11.0	05	20.000	19.29	-3.6	06	50.000	51.40	2.8
07	100.000	109.16	9.2	08	150.000	189.43	26.3	09	200.000	236.41	18.2

1,2-Dibromoethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-18.2	02	1.000	0.97	-3.0	03	2.000	2.05	2.4
04	5.000	4.74	-5.3	05	20.000	19.93	-0.3	06	50.000	51.62	3.2
07	100.000	101.62	1.6	08	150.000	167.88	11.9	09	200.000	215.38	7.7

1,2-Dichloro-1,1,2-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.5	02	1.000	0.98	-1.6	03	2.000	2.02	1.0
04	5.000	5.00	0.1	05	20.000	19.58	-2.1	06	50.000	50.98	2.0
07	100.000	98.97	-1.0	08	150.000	155.29	3.5	09	200.000	201.37	0.7

1,2-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.1	02	1.000	0.95	-5.0	03	2.000	2.12	6.2
04	5.000	5.02	0.4	05	20.000	20.20	1.0	06	50.000	51.34	2.7
07	100.000	96.20	-3.8	08	150.000	158.64	5.8	09	200.000	201.81	0.9

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

1,2-Dichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.1	02	1.000	1.00	0.2	03	2.000	2.12	5.9
04	5.000	4.95	-1.1	05	20.000	20.07	0.4	06	50.000	50.65	1.3
07	100.000	96.34	-3.7	08	150.000	155.20	3.5	09	200.000	199.28	-0.4

1,2-Dichloroethane-d4

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.77	7.7	05	20.000	18.44	-7.8	06	50.000	50.96	1.9
07	100.000	100.92	0.9	08	200.000	194.63	-2.7				

1,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.7	02	1.000	1.00	0.3	03	2.000	2.08	4.2
04	5.000	4.77	-4.6	05	20.000	19.87	-0.6	06	50.000	50.71	1.4
07	100.000	96.94	-3.1	08	150.000	158.94	6.0	09	200.000	206.29	3.1

1,3,5-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.8	02	1.000	1.00	0.4	03	2.000	1.98	-1.2
04	5.000	5.06	1.3	05	20.000	19.53	-2.4	06	50.000	50.56	1.1
07	100.000	99.35	-0.7	08	150.000	164.19	9.5	09	200.000	205.69	2.8

1,3,5-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-12.5	02	1.000	0.96	-3.6	03	2.000	2.04	2.2
04	5.000	5.03	0.7	05	20.000	20.98	4.9	06	50.000	53.36	6.7
07	100.000	96.51	-3.5	08	150.000	155.65	3.8	09	200.000	202.59	1.3

1,3-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.9	02	1.000	0.96	-4.4	03	2.000	2.11	5.4
04	5.000	4.97	-0.5	05	20.000	20.38	1.9	06	50.000	51.51	3.0
07	100.000	95.52	-4.5	08	150.000	155.98	4.0	09	200.000	201.86	0.9

1,3-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.3	02	1.000	0.96	-4.3	03	2.000	2.09	4.4
04	5.000	4.92	-1.5	05	20.000	20.36	1.8	06	50.000	51.48	3.0
07	100.000	97.13	-2.9	08	150.000	158.72	5.8	09	200.000	202.14	1.1

1,4-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.5	02	1.000	1.01	0.9	03	2.000	2.10	4.9
04	5.000	4.99	-0.1	05	20.000	19.99	0.0	06	50.000	50.67	1.3
07	100.000	93.40	-6.6	08	150.000	152.40	1.6	09	200.000	196.84	-1.6

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

1,4-Dioxane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	9.11	-8.9	02	20.000	15.43	-22.9	03	40.000	39.33	-1.7
04	100.000	100.91	0.9	05	400.000	404.18	1.0	06	1000.000	999.18	-0.1
07	2000.000	2,100.65	5.0	08	3000.000	3,647.30	21.6	09	4000.000	4,196.46	4.9

1-Butanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	25.000	25.04	0.2	02	50.000	49.50	-1.0	03	100.000	100.66	0.7
04	250.000	253.45	1.4	05	1000.000	1,026.70	2.7	06	2500.000	2,449.42	-2.0
07	5000.000	4,827.33	-3.5	08	7500.000	7,656.31	2.1				

1-Chloro-4-(trifluoromethyl)benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.5	02	1.000	1.00	0.3	03	2.000	2.05	2.4
04	5.000	4.82	-3.6	05	20.000	19.93	-0.4	06	50.000	51.32	2.6
07	100.000	98.37	-1.6	08	150.000	159.61	6.4	09	200.000	202.68	1.3

2,2-Dichloro-1,1,1-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.1	02	1.000	1.02	1.6	03	2.000	2.08	3.9
04	5.000	4.73	-5.5	05	20.000	19.26	-3.7	06	50.000	52.10	4.2
07	100.000	101.16	1.2	08	150.000	159.24	6.2	09	200.000	204.54	2.3

2,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.2	02	1.000	0.99	-1.2	03	2.000	1.86	-7.0
04	5.000	4.53	-9.3	05	20.000	19.64	-1.8	06	50.000	51.46	2.9
07	100.000	98.97	-1.0	08	150.000	167.45	11.6	09	200.000	214.07	7.0

2,3,6-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.6	02	1.000	0.92	-7.8	03	2.000	1.86	-6.8
04	5.000	4.84	-3.1	05	20.000	18.84	-5.8	06	50.000	50.41	0.8
07	100.000	103.98	4.0	08	150.000	177.71	18.5	09	200.000	219.57	9.8

2,4,5-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-18.3	02	1.000	0.79	-20.6	03	2.000	1.76	-12.0
04	5.000	4.70	-5.9	05	20.000	19.49	-2.6	06	50.000	52.34	4.7
07	100.000	109.97	10.0	08	150.000	190.44	27.0	09	200.000	235.61	17.8

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.500	1.31	-12.5	02	3.000	2.87	-4.3	03	6.000	5.94	-0.9
04	15.000	14.60	-2.7	05	60.000	59.92	-0.1	06	150.000	154.48	3.0
07	300.000	301.27	0.4	08	450.000	504.34	12.1	09	600.000	630.36	5.1

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

2,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.2	02	1.000	1.01	0.9	03	2.000	2.12	6.0
04	5.000	4.90	-2.0	05	20.000	19.68	-1.6	06	50.000	49.95	-0.1
07	100.000	96.60	-3.4	08	150.000	159.77	6.5	09	200.000	201.94	1.0

2,5-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.5	02	1.000	1.03	2.7	03	2.000	1.99	-0.5
04	5.000	4.68	-6.5	05	20.000	19.65	-1.7	06	50.000	49.98	0.0
07	100.000	95.33	-4.7	08	150.000	159.60	6.4	09	200.000	199.66	-0.2

2-Butanone (MEK)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.7	02	1.000	1.03	3.4	03	2.000	1.97	-1.5
04	5.000	4.80	-3.9	05	20.000	20.02	0.1	06	50.000	47.94	-4.1
07	100.000	96.69	-3.3	08	150.000	161.75	7.8	09	200.000	195.76	-2.1

2-Chloro-1,3-butadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.4	02	1.000	1.00	0.0	03	2.000	1.94	-2.9
04	5.000	4.78	-4.3	05	20.000	19.43	-2.9	06	50.000	52.49	5.0
07	100.000	102.18	2.2	08	150.000	161.13	7.4	09	200.000	211.81	5.9

2-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.1	02	1.000	0.94	-6.0	03	2.000	2.07	3.3
04	5.000	4.83	-3.3	05	20.000	19.87	-0.7	06	50.000	50.64	1.3
07	100.000	97.65	-2.3	08	150.000	160.58	7.1	09	200.000	199.28	-0.4

2-Chloroethyl Vinyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.33	-34.1	02	1.000	0.85	-14.9	03	2.000	1.99	-0.6
04	5.000	4.82	-3.6	05	20.000	20.34	1.7	06	50.000	53.43	6.9
07	100.000	108.47	8.5	08	150.000	180.80	20.5	09	200.000	231.13	15.6

2-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.8	02	1.000	1.03	3.4	03	2.000	2.14	7.1
04	5.000	5.06	1.1	05	20.000	20.38	1.9	06	50.000	51.19	2.4
07	100.000	94.61	-5.4	08	150.000	150.92	0.6	09	200.000	197.40	-1.3

2-Hexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.40	-19.4	02	1.000	0.78	-22.1	03	2.000	2.08	4.1
04	5.000	4.77	-4.7	05	20.000	20.47	2.3	06	50.000	51.80	3.6
07	100.000	106.72	6.7	08	150.000	181.41	20.9	09	200.000	217.11	8.6

Initial Calibration - Detailed Report

Calibration ID: RC1500090 **Instrument ID:** R-MS-14
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Analyte

2-Methyl-1-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	7.13	-28.7	02	20.000	17.35	-13.3	03	40.000	35.74	-10.7
04	100.000	95.32	-4.7	05	400.000	395.18	-1.2	06	1000.000	1,012.45	1.2
07	2000.000	2,201.39	10.1	08	3000.000	3,983.32	**32.8**	09	4000.000	4,576.69	14.4

2-Methyl-2-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	8.07	-19.3	02	20.000	17.34	-13.3	03	40.000	37.17	-7.1
04	100.000	99.54	-0.5	05	400.000	392.33	-1.9	06	1000.000	991.14	-0.9
07	2000.000	2,133.21	6.7	08	3000.000	3,797.26	26.6	09	4000.000	4,389.33	9.7

2-Nitropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.03	2.6	02	2.000	1.91	-4.5	03	4.000	4.00	0.1
04	10.000	9.63	-3.7	05	40.000	39.80	-0.5	06	100.000	102.94	2.9
07	200.000	202.51	1.3	08	300.000	314.38	4.8	09	400.000	383.87	-4.0

2-Propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	7.30	-27.0	02	20.000	17.67	-11.7	03	40.000	38.89	-2.8
04	100.000	98.49	-1.5	05	400.000	386.93	-3.3	06	1000.000	981.18	-1.9
07	2000.000	2,162.15	8.1	08	3000.000	3,859.00	28.6	09	4000.000	4,454.14	11.4

3,4- and 2,3-Dichlorotoluene Coelution

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.86	-13.9	02	2.000	1.91	-4.4	03	4.000	3.87	-3.2
04	10.000	9.81	-1.9	05	40.000	39.63	-0.9	06	100.000	102.26	2.3
07	200.000	203.97	2.0	08	300.000	341.14	13.7	09	400.000	425.84	6.5

3,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.5	02	1.000	1.02	2.4	03	2.000	2.02	0.8
04	5.000	4.89	-2.3	05	20.000	19.89	-0.6	06	50.000	50.22	0.4
07	100.000	96.09	-3.9	08	150.000	159.23	6.2	09	200.000	200.90	0.4

3-Chloro-1-propene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.37	-25.2	02	1.000	0.96	-3.6	03	2.000	2.01	0.3
04	5.000	4.82	-3.5	05	20.000	20.84	4.2	06	50.000	54.61	9.2
07	100.000	104.70	4.7	08	150.000	164.19	9.5	09	200.000	208.99	4.5

3-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.4	02	1.000	0.89	-10.6	03	2.000	2.06	2.9
04	5.000	4.94	-1.1	05	20.000	20.25	1.2	06	50.000	51.68	3.4
07	100.000	98.77	-1.2	08	150.000	160.84	7.2	09	200.000	203.28	1.6

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

3-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.6	02	1.000	1.02	1.6	03	2.000	2.05	2.5
04	5.000	4.96	-0.7	05	20.000	20.57	2.9	06	50.000	50.94	1.9
07	100.000	97.58	-2.4	08	150.000	155.41	3.6	09	200.000	200.49	0.2

4-Bromofluorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.63	6.3	05	20.000	18.11	-9.5	06	50.000	50.70	1.4
07	100.000	100.99	1.0	08	200.000	201.53	0.8				

4-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.0	02	1.000	1.01	1.3	03	2.000	2.05	2.4
04	5.000	5.02	0.5	05	20.000	20.63	3.2	06	50.000	52.15	4.3
07	100.000	95.52	-4.5	08	150.000	152.93	2.0	09	200.000	199.92	0.0

4-Isopropyltoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.8	02	1.000	0.95	-4.7	03	2.000	2.00	-0.2
04	5.000	5.04	0.8	05	20.000	20.77	3.9	06	50.000	52.79	5.6
07	100.000	94.54	-5.5	08	150.000	157.83	5.2	09	200.000	201.27	0.6

4-Methyl-2-pentanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.42	-16.5	02	1.000	0.92	-7.8	03	2.000	1.94	-2.9
04	5.000	4.95	-0.9	05	20.000	19.95	-0.3	06	50.000	50.38	0.8
07	100.000	103.48	3.5	08	150.000	175.31	16.9	09	200.000	214.36	7.2

Acetone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	5.000	6.10	22.1	05	20.000	20.12	0.6	06	50.000	47.38	-5.2
07	100.000	94.01	-6.0	08	150.000	151.69	1.1	09	200.000	174.92	-12.5

Acetonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.59	3.7	02	5.000	5.21	4.1	03	10.000	9.75	-2.5
04	25.000	24.22	-3.1	05	100.000	97.43	-2.6	06	250.000	239.41	-4.2
07	500.000	492.96	-1.4	08	750.000	801.67	6.9	09	1000.000	991.20	-0.9

Acrolein

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	1.94	-22.5	02	5.000	4.49	-10.3	03	10.000	10.03	0.3
04	25.000	24.62	-1.5	05	100.000	104.09	4.1	06	250.000	258.20	3.3
07	500.000	515.49	3.1	08	750.000	867.83	15.7	09	1000.000	1,077.99	7.8

Initial Calibration - Detailed Report

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		Signal ID:	1

Analyte

Acrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.12	-15.0	02	5.000	4.61	-7.9	03	10.000	9.87	-1.3
04	25.000	24.75	-1.0	05	100.000	103.78	3.8	06	250.000	255.51	2.2
07	500.000	514.07	2.8	08	750.000	843.74	12.5	09	1000.000	1,039.40	3.9

Benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.0	02	1.000	1.04	3.9	03	2.000	2.06	3.1
04	5.000	4.92	-1.5	05	20.000	20.01	0.0	06	50.000	50.92	1.8
07	100.000	96.19	-3.8	08	150.000	155.68	3.8	09	200.000	201.53	0.8

Bromobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.6	02	1.000	0.99	-1.1	03	2.000	2.09	4.4
04	5.000	4.91	-1.8	05	20.000	20.27	1.4	06	50.000	51.63	3.3
07	100.000	94.77	-5.2	08	150.000	153.61	2.4	09	200.000	198.63	-0.7

Bromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-13.7	02	1.000	1.10	9.9	03	2.000	1.96	-1.8
04	5.000	4.81	-3.8	05	20.000	20.68	3.4	06	50.000	51.97	3.9
07	100.000	97.54	-2.5	08	150.000	157.54	5.0	09	200.000	198.85	-0.6

Bromodichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.40	-19.5	02	1.000	0.91	-8.5	03	2.000	1.91	-4.7
04	5.000	4.76	-4.8	05	20.000	20.29	1.4	06	50.000	53.08	6.2
07	100.000	103.85	3.9	08	150.000	170.64	13.8	09	200.000	224.84	12.4

Bromoform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.35	-30.2	02	1.000	0.76	-23.8	03	2.000	1.90	-4.8
04	5.000	4.51	-9.8	05	20.000	19.85	-0.7	06	50.000	53.06	6.1
07	100.000	111.54	11.5	08	150.000	192.74	28.5	09	200.000	246.39	23.2

Bromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.70	**40.3**	02	1.000	1.38	**38.3**	03	2.000	2.63	**31.3**
04	5.000	4.93	-1.5	05	20.000	23.30	16.5	06	50.000	54.29	8.6
07	100.000	52.63	-47.4	08	150.000	80.94	-46.0	09	200.000	119.91	-40.0

Carbon Disulfide

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.8	02	1.000	1.00	-0.4	03	2.000	1.90	-4.8
04	5.000	4.63	-7.4	05	20.000	18.91	-5.4	06	50.000	51.25	2.5
07	100.000	102.07	2.1	08	150.000	165.20	10.1	09	200.000	220.12	10.1

Initial Calibration - Detailed Report

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Analyte

Carbon Tetrachloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.7	02	1.000	0.90	-9.7	03	2.000	1.98	-1.2
04	5.000	4.62	-7.7	05	20.000	21.19	6.0	06	50.000	54.64	9.3
07	100.000	97.58	-2.4	08	150.000	153.18	2.1	09	200.000	195.04	-2.5

Chlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.7	02	1.000	1.02	1.5	03	2.000	2.06	3.1
04	5.000	4.98	-0.4	05	20.000	20.10	0.5	06	50.000	51.15	2.3
07	100.000	95.25	-4.8	08	150.000	156.02	4.0	09	200.000	200.89	0.4

Chloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.3	02	1.000	1.04	4.5	03	2.000	1.86	-6.9
04	5.000	4.74	-5.2	05	20.000	20.16	0.8	06	50.000	52.03	4.1
07	100.000	97.49	-2.5	08	150.000	155.99	4.0	09	200.000	201.76	0.9

Chloroform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.6	02	1.000	1.00	0.0	03	2.000	2.00	0.0
04	5.000	4.87	-2.6	05	20.000	20.43	2.2	06	50.000	51.94	3.9
07	100.000	99.05	-1.0	08	150.000	159.92	6.6	09	200.000	202.81	1.4

Chloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.6	02	1.000	1.17	16.7	03	2.000	1.85	-7.4
04	5.000	4.63	-7.3	05	20.000	19.32	-3.4	06	50.000	50.64	1.3
07	100.000	95.85	-4.1	08	150.000	160.45	7.0	09	200.000	201.93	1.0

Cyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.42	-15.5	02	1.000	1.04	3.7	03	2.000	2.22	11.0
04	5.000	4.95	-1.0	05	20.000	19.23	-3.9	06	50.000	50.99	2.0
07	100.000	97.77	-2.2	08	150.000	156.38	4.3	09	200.000	203.38	1.7

Cyclohexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	8.46	-15.4	02	20.000	17.72	-11.4	03	40.000	38.86	-2.9
04	100.000	101.19	1.2	05	400.000	411.31	2.8	06	1000.000	1,023.64	2.4
07	2000.000	2,101.19	5.1	08	3000.000	3,692.78	23.1	09	4000.000	3,804.12	-4.9

Dibromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-13.1	02	1.000	0.89	-11.5	03	2.000	1.84	-7.8
04	5.000	4.50	-10.0	05	20.000	19.59	-2.1	06	50.000	53.01	6.0
07	100.000	105.60	5.6	08	150.000	176.93	18.0	09	200.000	229.58	14.8

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Analyte

Dibromofluoromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.75	7.5	05	20.000	18.31	-8.4	06	50.000	50.70	1.4
07	100.000	101.54	1.5	08	200.000	195.93	-2.0				

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.40	-20.1	02	1.000	0.94	-6.1	03	2.000	2.08	4.0
04	5.000	4.90	-2.0	05	20.000	20.61	3.0	06	50.000	51.70	3.4
07	100.000	101.37	1.4	08	150.000	164.95	10.0	09	200.000	212.72	6.4

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-12.6	02	1.000	0.88	-12.4	03	2.000	1.79	-10.6
04	5.000	4.48	-10.5	05	20.000	21.03	5.2	06	50.000	55.64	11.3
07	100.000	104.45	4.5	08	150.000	174.88	16.6	09	200.000	217.16	8.6

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.1	02	1.000	1.04	3.6	03	2.000	1.94	-2.8
04	5.000	4.82	-3.5	05	20.000	19.13	-4.4	06	50.000	51.20	2.4
07	100.000	98.83	-1.2	08	150.000	159.75	6.5	09	200.000	201.02	0.5

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.5	02	1.000	1.06	5.9	03	2.000	2.00	-0.2
04	5.000	4.65	-7.0	05	20.000	20.01	0.1	06	50.000	50.96	1.9
07	100.000	98.31	-1.7	08	150.000	161.29	7.5	09	200.000	201.95	1.0

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.73	45.1	02	1.000	1.11	11.2	03	2.000	2.13	6.4
04	5.000	4.65	-7.1	05	20.000	17.87	-10.7	06	50.000	44.83	-10.3
07	100.000	86.18	-13.8	08	150.000	138.21	-7.9	09	200.000	174.28	-12.9

Diisopropyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.1	02	1.000	0.97	-3.3	03	2.000	2.04	2.0
04	5.000	5.00	0.0	05	20.000	20.49	2.4	06	50.000	51.28	2.6
07	100.000	97.96	-2.0	08	150.000	160.33	6.9	09	200.000	205.12	2.6

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.39	-21.7	02	1.000	0.78	-21.9	03	2.000	1.95	-2.6
04	5.000	4.69	-6.2	05	20.000	20.61	3.1	06	50.000	53.06	6.1
07	100.000	107.60	7.6	08	150.000	181.94	21.3	09	200.000	228.59	14.3

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

Ethyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.2	02	1.000	1.00	0.1	03	2.000	2.06	2.8
04	5.000	4.92	-1.6	05	20.000	20.17	0.9	06	50.000	50.35	0.7
07	100.000	97.68	-2.3	08	150.000	160.94	7.3	09	200.000	206.71	3.4

Ethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.7	02	1.000	0.93	-6.7	03	2.000	2.03	1.6
04	5.000	4.96	-0.9	05	20.000	20.37	1.9	06	50.000	51.92	3.8
07	100.000	96.56	-3.4	08	150.000	158.35	5.6	09	200.000	203.76	1.9

Hexachlorobutadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.6	02	1.000	1.00	0.5	03	2.000	2.01	0.7
04	5.000	4.83	-3.4	05	20.000	18.98	-5.1	06	50.000	49.82	-0.4
07	100.000	92.68	-7.3	08	150.000	161.12	7.4	09	200.000	196.22	-1.9

Iodomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.10	5.1	04	5.000	4.36	-12.8	05	20.000	19.21	-4.0
06	50.000	54.96	9.9	07	100.000	102.04	2.0	08	150.000	153.91	2.6
09	200.000	192.31	-3.8								

Isopropylbenzene (Cumene)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.8	02	1.000	0.95	-4.7	03	2.000	2.10	5.1
04	5.000	5.07	1.3	05	20.000	20.36	1.8	06	50.000	52.40	4.8
07	100.000	96.18	-3.8	08	150.000	157.41	4.9	09	200.000	202.78	1.4

Methacrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-12.3	02	1.000	1.07	6.6	03	2.000	1.99	-0.5
04	5.000	4.53	-9.4	05	20.000	20.14	0.7	06	50.000	50.70	1.4
07	100.000	100.90	0.9	08	150.000	165.51	10.3	09	200.000	204.51	2.3

Methyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.6	02	1.000	1.07	6.9	03	2.000	2.06	3.0
04	5.000	4.81	-3.9	05	20.000	18.99	-5.0	06	50.000	47.92	-4.2
07	100.000	96.36	-3.6	08	150.000	157.89	5.3	09	200.000	196.00	-2.0

Methyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-12.3	02	1.000	0.85	-15.1	03	2.000	1.97	-1.3
04	5.000	4.77	-4.6	05	20.000	19.83	-0.8	06	50.000	51.82	3.6
07	100.000	104.59	4.6	08	150.000	174.18	16.1	09	200.000	219.40	9.7

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

Methyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.8	02	1.000	0.93	-7.0	03	2.000	2.09	4.7
04	5.000	4.94	-1.3	05	20.000	20.17	0.9	06	50.000	51.59	3.2
07	100.000	100.20	0.2	08	150.000	162.78	8.5	09	200.000	205.10	2.5

Methylcyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.0	02	1.000	0.94	-6.2	03	2.000	2.02	1.2
04	5.000	5.05	1.0	05	20.000	18.85	-5.8	06	50.000	51.42	2.8
07	100.000	100.10	0.1	08	150.000	160.70	7.1	09	200.000	207.21	3.6

Naphthalene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.8	02	1.000	0.88	-12.1	03	2.000	1.91	-4.6
04	5.000	4.82	-3.6	05	20.000	20.23	1.2	06	50.000	52.63	5.3
07	100.000	105.00	5.0	08	150.000	175.59	17.1	09	200.000	219.23	9.6

Propionitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.01	-19.5	02	5.000	4.54	-9.1	03	10.000	9.95	-0.5
04	25.000	25.31	1.2	05	100.000	101.66	1.7	06	250.000	252.30	0.9
07	500.000	521.20	4.2	08	750.000	876.33	16.8	09	1000.000	1,042.54	4.3

Styrene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.0	02	1.000	0.91	-9.0	03	2.000	2.00	0.1
04	5.000	4.79	-4.2	05	20.000	20.64	3.2	06	50.000	53.77	7.5
07	100.000	101.39	1.4	08	150.000	166.75	11.2	09	200.000	213.72	6.9

Tetrachloroethene (PCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.5	02	1.000	1.05	4.8	03	2.000	2.04	2.1
04	5.000	4.88	-2.4	05	20.000	19.63	-1.9	06	50.000	51.53	3.1
07	100.000	94.26	-5.7	08	150.000	153.71	2.5	09	200.000	198.07	-1.0

Tetrahydrofuran (THF)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.38	-24.0	02	1.000	0.79	-21.0	03	2.000	2.14	6.9
04	5.000	5.15	3.1	05	20.000	21.28	6.4	06	50.000	52.70	5.4
07	100.000	103.58	3.6	08	150.000	172.06	14.7	09	200.000	209.85	4.9

Toluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.7	02	1.000	1.02	2.3	03	2.000	2.07	3.5
04	5.000	4.91	-1.9	05	20.000	19.92	-0.4	06	50.000	50.86	1.7
07	100.000	95.15	-4.8	08	150.000	155.53	3.7	09	200.000	201.31	0.7

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

Toluene-d8

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.98	9.8	05	20.000	18.52	-7.4	06	50.000	50.66	1.3
07	100.000	100.30	0.3	08	200.000	191.97	-4.0				

Trichloroethene (TCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.5	02	1.000	0.95	-5.2	03	2.000	2.17	8.4
04	5.000	4.91	-1.9	05	20.000	20.02	0.1	06	50.000	51.73	3.5
07	100.000	97.86	-2.1	08	150.000	159.22	6.1	09	200.000	205.15	2.6

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.9	02	1.000	1.00	0.4	03	2.000	1.90	-4.9
04	5.000	4.75	-5.1	05	20.000	20.27	1.3	06	50.000	52.78	5.6
07	100.000	95.30	-4.7	08	150.000	168.77	12.5	09	200.000	197.46	-1.3

Vinyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.35	-31.0	02	1.000	0.80	-20.3	03	2.000	1.85	-7.3
04	5.000	4.47	-10.5	05	20.000	20.25	1.2	06	50.000	55.34	10.7
07	100.000	110.30	10.3	08	150.000	188.13	25.4	09	200.000	243.04	21.5

Vinyl Chloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.3	02	1.000	0.95	-4.8	03	2.000	1.95	-2.4
04	5.000	4.73	-5.5	05	20.000	20.31	1.5	06	50.000	52.38	4.8
07	100.000	97.62	-2.4	08	150.000	163.77	9.2	09	200.000	203.72	1.9

cis-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.6	02	1.000	1.00	-0.4	03	2.000	2.03	1.5
04	5.000	4.87	-2.5	05	20.000	20.24	1.2	06	50.000	51.61	3.2
07	100.000	99.21	-0.8	08	150.000	160.64	7.1	09	200.000	204.45	2.2

cis-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.2	02	1.000	0.87	-13.2	03	2.000	1.84	-8.2
04	5.000	4.49	-10.3	05	20.000	20.62	3.1	06	50.000	53.56	7.1
07	100.000	105.97	6.0	08	150.000	177.05	18.0	09	200.000	229.29	14.6

m,p-Xylenes

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.94	-6.0	02	2.000	1.88	-6.1	03	4.000	4.14	3.5
04	10.000	9.98	-0.2	05	40.000	40.71	1.8	06	100.000	104.04	4.0
07	200.000	193.43	-3.3	08	300.000	313.29	4.4	09	400.000	407.18	1.8

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

n-Butyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.39	-22.7	02	1.000	0.85	-14.7	03	2.000	1.95	-2.5
04	5.000	4.90	-2.1	05	20.000	20.24	1.2	06	50.000	51.84	3.7
07	100.000	105.82	5.8	08	150.000	179.61	19.7	09	200.000	223.14	11.6

n-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.2	02	1.000	0.89	-10.6	03	2.000	1.96	-1.8
04	5.000	4.94	-1.1	05	20.000	21.04	5.2	06	50.000	54.12	8.2
07	100.000	97.85	-2.2	08	150.000	163.68	9.1	09	200.000	208.40	4.2

n-Heptane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.2	02	1.000	0.98	-2.3	03	2.000	2.06	2.8
04	5.000	4.63	-7.3	05	20.000	20.30	1.5	06	50.000	52.24	4.5
07	100.000	92.86	-7.1	08	150.000	160.13	6.8	09	200.000	199.89	-0.1

n-Propylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.9	02	1.000	0.97	-3.3	03	2.000	2.05	2.6
04	5.000	5.05	1.0	05	20.000	20.61	3.1	06	50.000	52.55	5.1
07	100.000	94.39	-5.6	08	150.000	151.25	0.8	09	200.000	198.43	-0.8

o-Xylene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.8	02	1.000	0.98	-2.3	03	2.000	2.13	6.3
04	5.000	5.02	0.4	05	20.000	20.21	1.0	06	50.000	52.28	4.6
07	100.000	95.87	-4.1	08	150.000	156.61	4.4	09	200.000	203.05	1.5

sec-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.6	02	1.000	0.99	-1.0	03	2.000	2.02	0.9
04	5.000	5.13	2.7	05	20.000	20.80	4.0	06	50.000	53.00	6.0
07	100.000	94.79	-5.2	08	150.000	155.33	3.6	09	200.000	199.13	-0.4

tert-Amyl Methyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-13.0	02	1.000	0.97	-3.3	03	2.000	2.07	3.4
04	5.000	4.93	-1.5	05	20.000	20.07	0.3	06	50.000	50.44	0.9
07	100.000	98.67	-1.3	08	150.000	163.80	9.2	09	200.000	210.54	5.3

tert-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.5	02	1.000	0.99	-0.9	03	2.000	2.03	1.4
04	5.000	5.10	2.1	05	20.000	20.52	2.6	06	50.000	52.30	4.6
07	100.000	94.90	-5.1	08	150.000	154.41	2.9	09	200.000	199.85	-0.1

Initial Calibration - Detailed Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

trans-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.2	02	1.000	1.01	0.8	03	2.000	2.05	2.5
04	5.000	4.90	-2.1	05	20.000	20.32	1.6	06	50.000	52.20	4.4
07	100.000	99.61	-0.4	08	150.000	160.93	7.3	09	200.000	206.11	3.1

trans-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.36	-28.9	02	1.000	0.82	-17.7	03	2.000	1.74	-13.1
04	5.000	4.58	-8.5	05	20.000	20.35	1.7	06	50.000	55.36	10.7
07	100.000	109.77	9.8	08	150.000	185.96	24.0	09	200.000	243.88	21.9

trans-1,4-Dichloro-2-butene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.39	-22.4	02	1.000	0.78	-21.5	03	2.000	1.83	-8.5
04	5.000	4.68	-6.5	05	20.000	19.77	-1.2	06	50.000	54.04	8.1
07	100.000	107.94	7.9	08	150.000	192.28	28.2	09	200.000	231.67	15.8

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:50:30 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

BW 091015

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	188598	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.880	114	283459	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.610	117	243463	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	122606	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	19114	10.85	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 21.70%#			
47) surr1,1,2-dichloroetha...	4.898	65	23336	11.81	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 23.62%#			
64) SURR3,Toluene-d8	8.690	98	78477	11.74	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 23.48%#			
69) SURR2,BFB	11.994	95	29070	12.28	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 24.56%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.936	85	666m	0.40	ug/L	
3) Chloromethane	1.039	50	860	0.53	ug/L	97
4) Vinyl Chloride	1.100	62	948m	0.47	ug/L	
5) Bromomethane	1.289	94	732	0.42	ug/L	86
6) Chloroethane	1.350	64	636	0.46	ug/L	97
7) Freon 21	1.472	67	1645m	0.45	ug/L	
8) Trichlorofluoromethane	1.509	101	1121	0.42	ug/L	89
9) Diethyl Ether	1.710	59	1400	0.94	ug/L	91
10) Freon 123a	1.710	67	1024	0.49	ug/L	96
11) Freon 123	1.759	83	1123	0.45	ug/L	96
12) Acrolein	1.789	56	934	2.03	ug/L	77
13) 1,1-Diclethene	1.856	96	821	0.53	ug/L	83
14) Freon 113	1.868	101	893	0.60	ug/L #	64
15) Acetone	1.899	43	1116	1.16	ug/L	98
16) 2-Propanol	2.015	45	1279	8.65	ug/L	93
17) Iodomethane	1.960	142	480	0.29	ug/L	83
18) Carbon Disulfide	2.015	76	2092	0.45	ug/L	94
19) Acetonitrile	2.106	40	508m	3.13	ug/L	
20) Allyl Chloride	2.130	76	337	0.36	ug/L #	71
21) Methyl Acetate	2.167	43	959	0.58	ug/L	88
22) Methylene Chloride	2.228	84	904	0.47	ug/L	93
23) TBA	2.350	59	2436	9.91	ug/L	92
24) Acrylonitrile	2.447	53	2123	2.25	ug/L	94
25) Methyl-t-Butyl Ether	2.490	73	2607	0.51	ug/L	97
26) trans-1,2-Dichloroethene	2.472	96	741	0.40	ug/L #	78
27) 1,1-Diclethane	2.886	63	1540	0.51	ug/L	89
28) Vinyl Acetate	2.978	86	152m	0.34	ug/L	
29) DIPE	3.014	45	2475	0.49	ug/L	87
30) 2-Chloro-1,3-Butadiene	2.990	53	1298	0.45	ug/L	99
31) ETBE	3.447	59	2554	0.54	ug/L	97
32) 2,2-Dichloropropane	3.581	77	1216	0.61	ug/L	92
33) cis-1,2-Dichloroethene	3.594	96	911	0.42	ug/L	94
34) 2-Butanone	3.655	43	642	0.53	ug/L #	60
35) Propionitrile	3.703	54	826	2.11	ug/L	95

00303

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:50:30 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	3.911	130	562	0.42 ug/L #	85
37) Methacrylonitrile	3.929	67	465	0.46 ug/L	92
38) Tetrahydrofuran	4.026	42	275m	0.41 ug/L	
39) Chloroform	4.075	83	1458	0.44 ug/L	84
40) 1,1,1-Trichloroethane	4.331	97	1222	0.49 ug/L	90
41) TAME	5.337	73	2417m	0.52 ug/L	
43) Cyclohexane	4.417	41	613m	0.49 ug/L	
45) Carbontetrachloride	4.618	121	146m	0.25 ug/L	
46) 1,1-Dichloropropene	4.630	75	1310	0.59 ug/L	97
48) Benzene	4.996	78	3480	0.49 ug/L	95
49) 1,2-Dichloroethane	5.044	62	1210	0.49 ug/L	96
50) Iso-Butyl Alcohol	5.081	43	876m	8.60 ug/L	
51) n-Heptane	5.709	43	796m	0.69 ug/L	
52) 1-Butanol	6.556	56	1216m	18.36 ug/L	
53) Trichloroethene	6.373	130	853	0.45 ug/L #	90
54) Methylcyclohexane	6.739	55	941m	0.62 ug/L	
55) 1,2-Diclpropane	6.812	63	896m	0.51 ug/L	
56) Dibromomethane	7.056	93	503m	0.38 ug/L	
57) 1,4-Dioxane	7.245	88	372m	9.91 ug/L	
58) Methyl Methacrylate	7.312	69	717	0.48 ug/L	90
59) Bromodichloromethane	7.459	83	928	0.41 ug/L	81
60) 2-Nitropropane	7.916	41	292	0.68 ug/L #	50
61) 2-Chloroethylvinyl Ether	8.148	63	400m	0.32 ug/L	
62) cis-1,3-Dichloropropene	8.288	75	1151	0.46 ug/L	93
63) 4-Methyl-2-pentanone	8.623	43	888	0.45 ug/L	93
65) Toluene	8.782	91	3909	0.50 ug/L	98
66) trans-1,3-Dichloropropene	9.184	75	865	0.39 ug/L	89
67) Ethyl Methacrylate	9.416	69	1081m	0.43 ug/L	
68) 1,1,2-Trichloroethane	9.409	97	905	0.48 ug/L	84
71) Tetrachloroethene	9.556	164	711	0.56 ug/L	93
72) 2-Hexanone	9.830	43	618	0.42 ug/L	83
73) 1,3-Dichloropropane	9.623	76	1439	0.47 ug/L	84
74) Dibromochloromethane	9.891	129	766m	0.44 ug/L	
75) N-Butyl Acetate	10.062	43	1142	0.43 ug/L	94
76) 1,2-Dibromoethane	9.995	107	758	0.41 ug/L	84
77) 3-Chlorobenzotrifluoride	10.732	180	1228	0.57 ug/L #	84
78) Chlorobenzene	10.647	112	2372	0.48 ug/L	98
79) 4-Chlorobenzotrifluoride	10.806	180	1063	0.56 ug/L	97
80) 1,1,1,2-Tetrachloroethane	10.769	131	643	0.41 ug/L #	83
81) Ethylbenzene	10.824	106	1267	0.52 ug/L	98
82) (m+p)Xylene	10.970	106	2996	1.02 ug/L	93
83) o-Xylene	11.415	106	1402	0.48 ug/L	90
84) Styrene	11.440	104	2211	0.44 ug/L	93
85) Bromoform	11.604	173	418m	0.35 ug/L	
86) 2-Chlorobenzotrifluoride	11.750	180	1289	0.58 ug/L	85
87) Isopropylbenzene	11.854	105	3457	0.51 ug/L	93
88) Cyclohexanone	11.909	55	3219	9.61 ug/L	82
89) trans-1,4-Dichloro-2-B...	12.269	53	238m	0.39 ug/L	
91) 1,1,2,2-Tetrachloroethane	12.196	83	1193	0.41 ug/L	88
92) Bromobenzene	12.128	156	1006	0.50 ug/L	92
93) 1,2,3-Trichloropropane	12.214	110	339	0.42 ug/L #	86

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

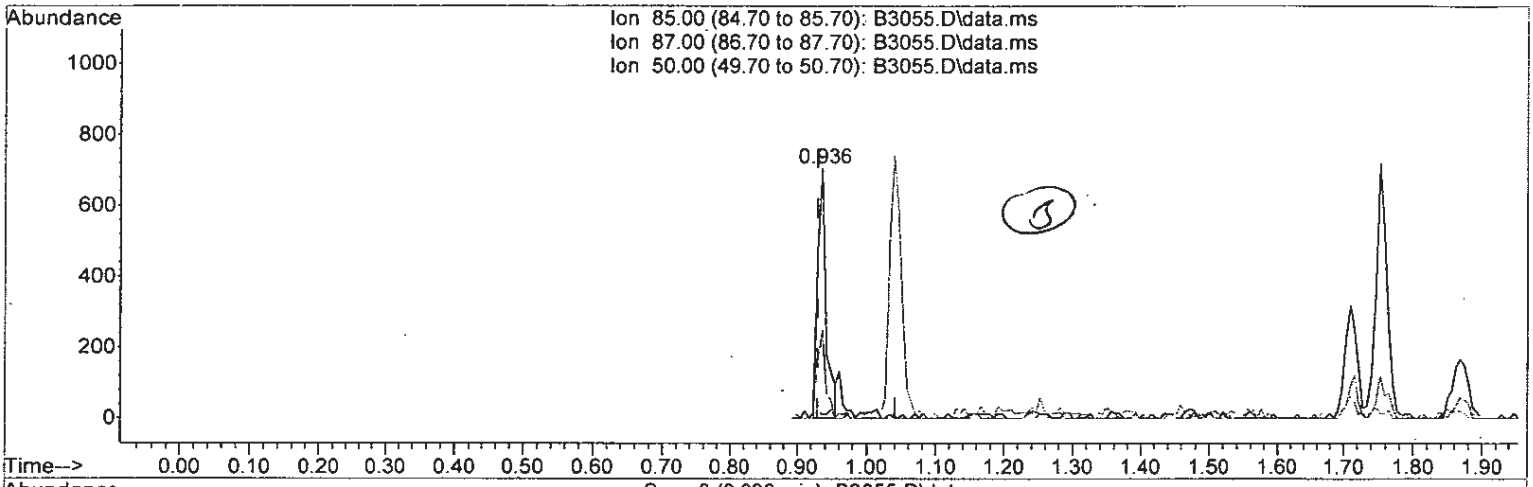
Quant Time: Sep 10 13:50:30 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

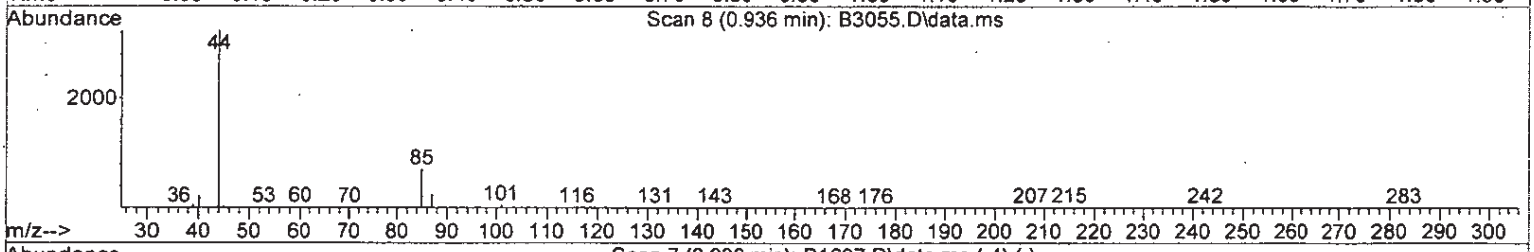
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	n-Propylbenzene	12.311	91	4242	0.54	ug/L		94
95)	2-Chlorotoluene	12.360	91	2524	0.52	ug/L		96
96)	3-Chlorotoluene	12.439	91	2589	0.50	ug/L		89
97)	4-Chlorotoluene	12.482	91	2929	0.51	ug/L		92
98)	1,3,5-Trimethylbenzene	12.513	105	2691	0.51	ug/L		98
99)	tert-Butylbenzene	12.848	119	2353	0.57	ug/L		98
100)	1,2,4-Trimethylbenzene	12.903	105	2812	0.53	ug/L		85
101)	3,4-Dichlorobenzotrifl...	13.000	214	841	0.59	ug/L		97
102)	sec-Butylbenzene	13.086	105	3199	0.52	ug/L		95
103)	p-Isopropyltoluene	13.250	119	2793	0.55	ug/L		98
104)	1,3-Dclbenz	13.159	146	1766	0.51	ug/L		90
105)	1,4-Dclbenz	13.256	146	1949	0.55	ug/L		87
106)	2,4-Dichlorobenzotrifl...	13.360	214	732	0.57	ug/L		93
107)	2,5-Dichlorobenzotrifl...	13.415	214	950	0.65	ug/L		82
108)	n-Butylbenzene	13.677	91	2328	0.50	ug/L		94
109)	1,2-Dclbenz	13.628	146	1736	0.50	ug/L		91
110)	1,2-Dibromo-3-chloropr...	14.439	157	204	0.37	ug/L	#	82
111)	Trielution Dichlorotol...	14.604	125	3791	1.57	ug/L		96
112)	1,3,5-Trichlorobenzene	14.665	180	1084	0.55	ug/L		92
113)	Coelution Dichlorotoluene	15.012	125	2833	1.03	ug/L		92
114)	1,2,4-Tcbenzene	15.280	180	1068	0.55	ug/L		93
115)	Hexachlorobt	15.481	225	476	0.70	ug/L	#	78
116)	Naphthalen	15.512	128	3169	0.44	ug/L		97
117)	1,2,3-Tclbenzene	15.762	180	1081	0.56	ug/L		86
118)	2,4,5-Trichlorotoluene	16.524	159	540	0.48	ug/L		88
119)	2,3,6-Trichlorotoluene	16.628	159	561	0.57	ug/L		83

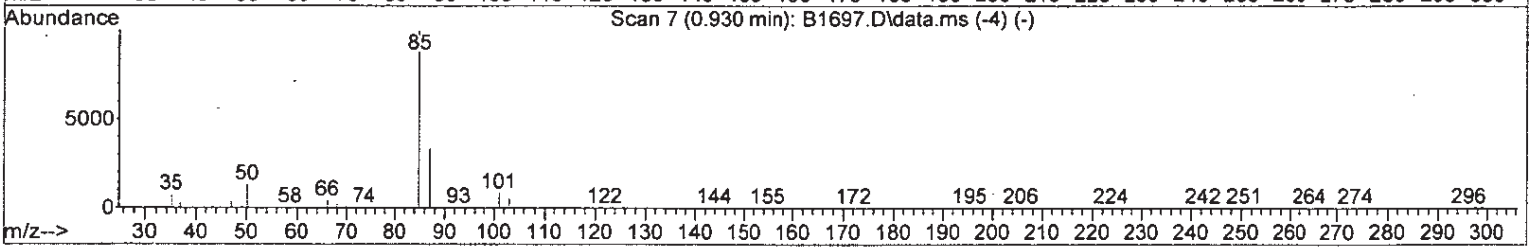
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration







TIC: B3055.D\data.ms

(2) Dichlorodifluoromethane (P)

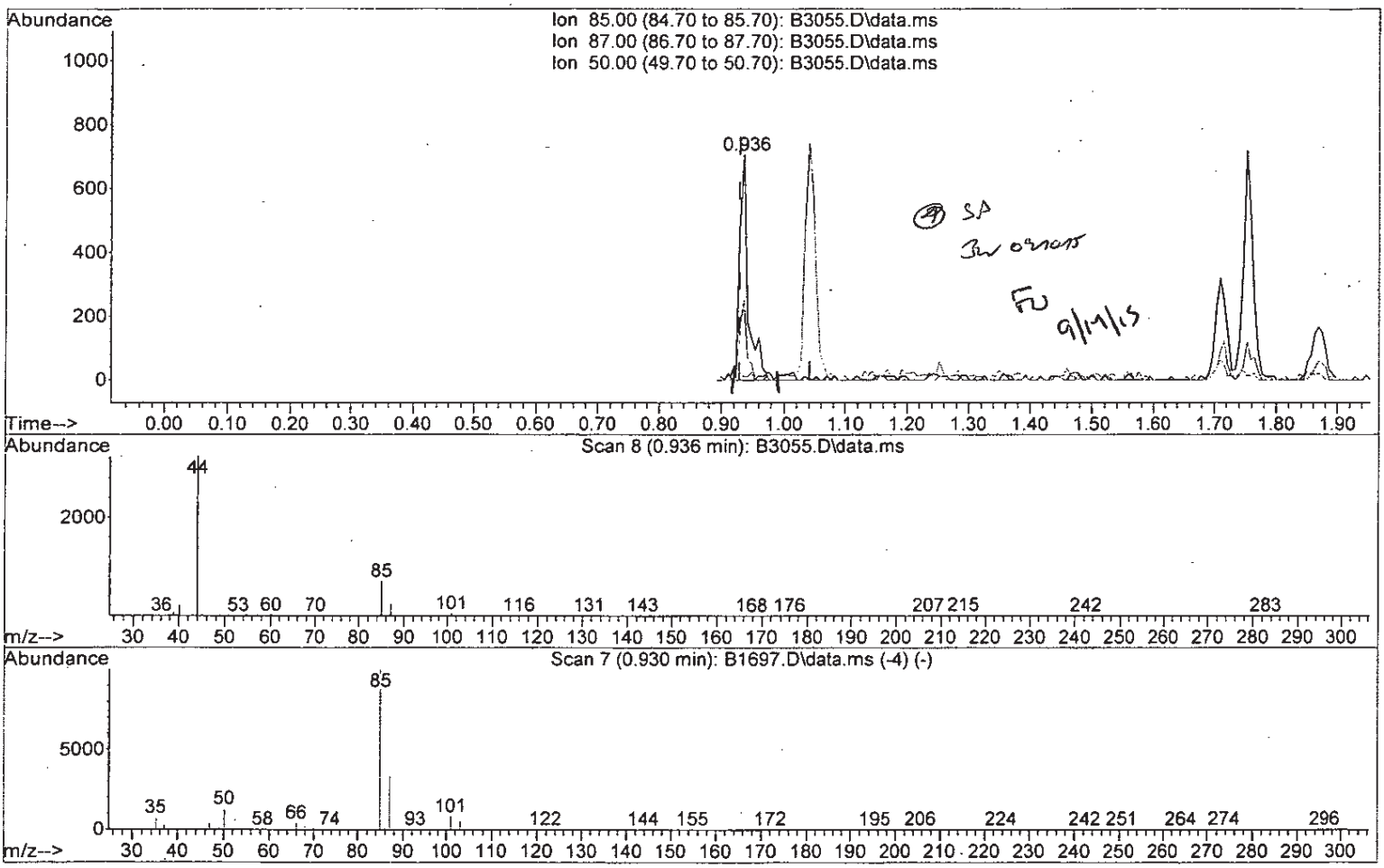
0.936min (+0.006) 0.35 ug/L

response 581

Ion	Exp%	Act%
85.00	100	100
87.00	35.00	35.18
50.00	10.60	1.56
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(2) Dichlorodifluoromethane (P)

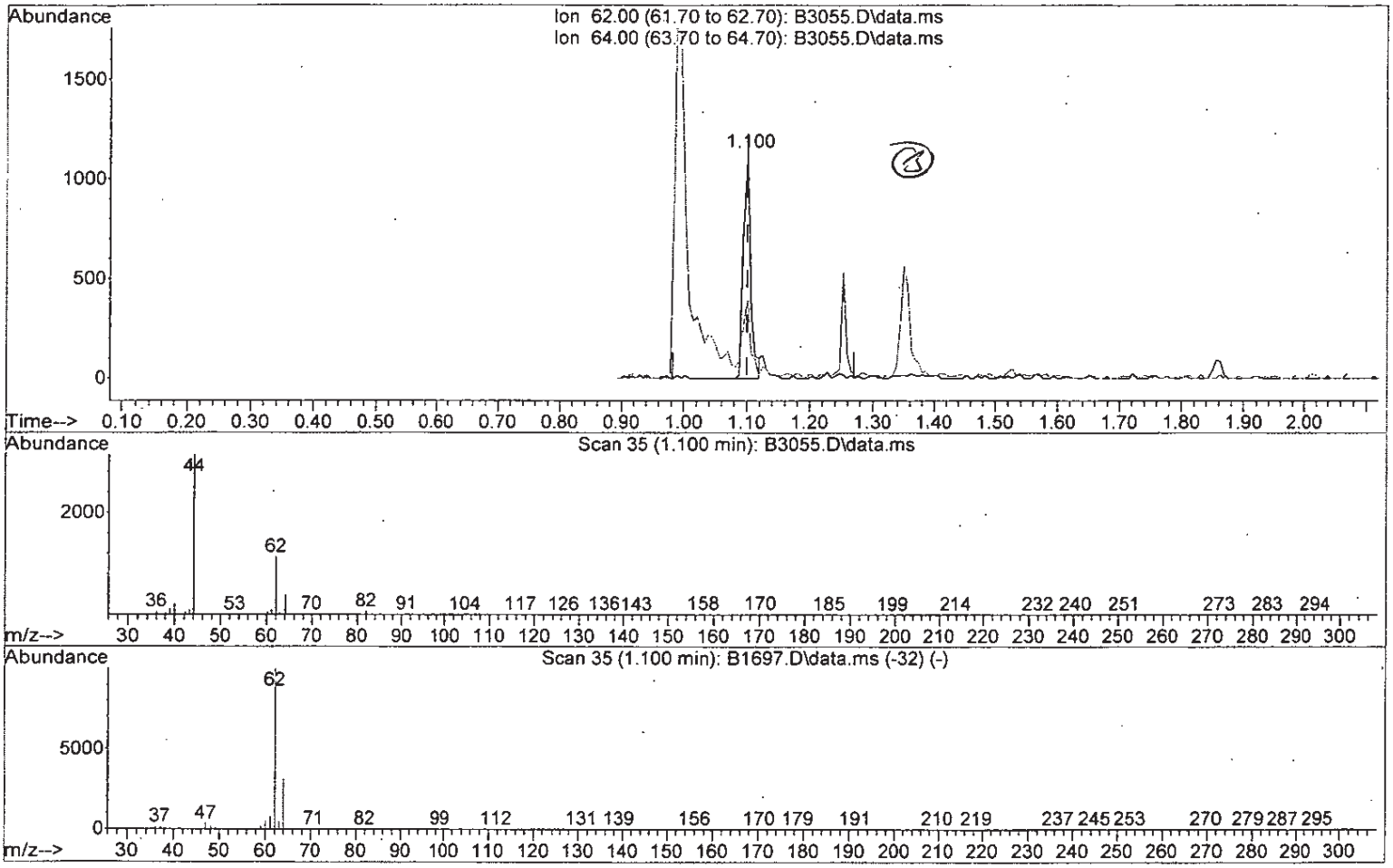
0.936min (+0.006) 0.40 ug/L m

response 666

Ion	Exp%	Act%
85.00	100	100
87.00	35.00	35.18
50.00	10.60	1.56
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(4) Vinyl Chloride (P)

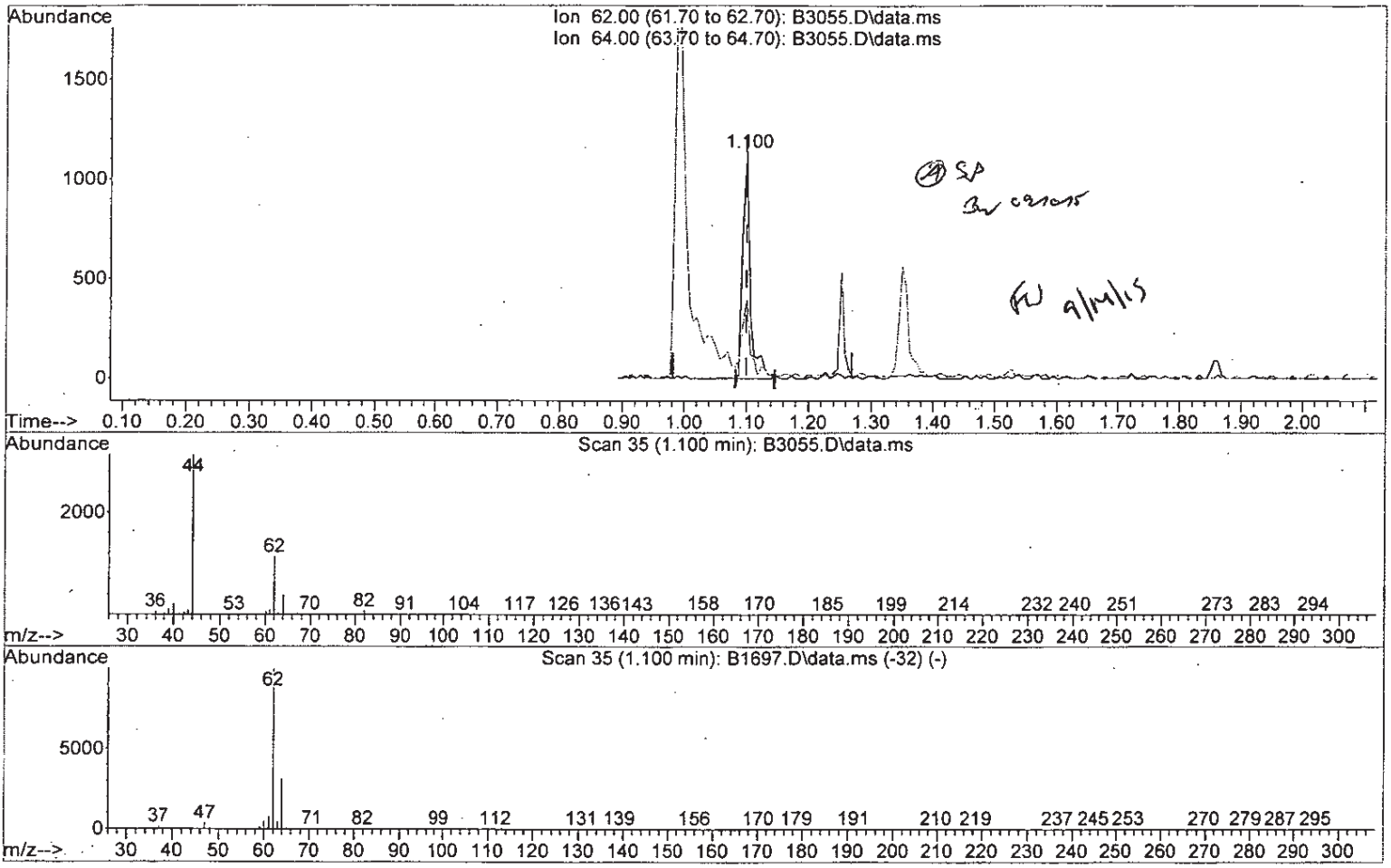
1.100min (-0.000) 0.44 ug/L

response 877

Ion	Exp%	Act%
62.00	100	100
64.00	33.80	34.39
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(4) Vinyl Chloride (P)

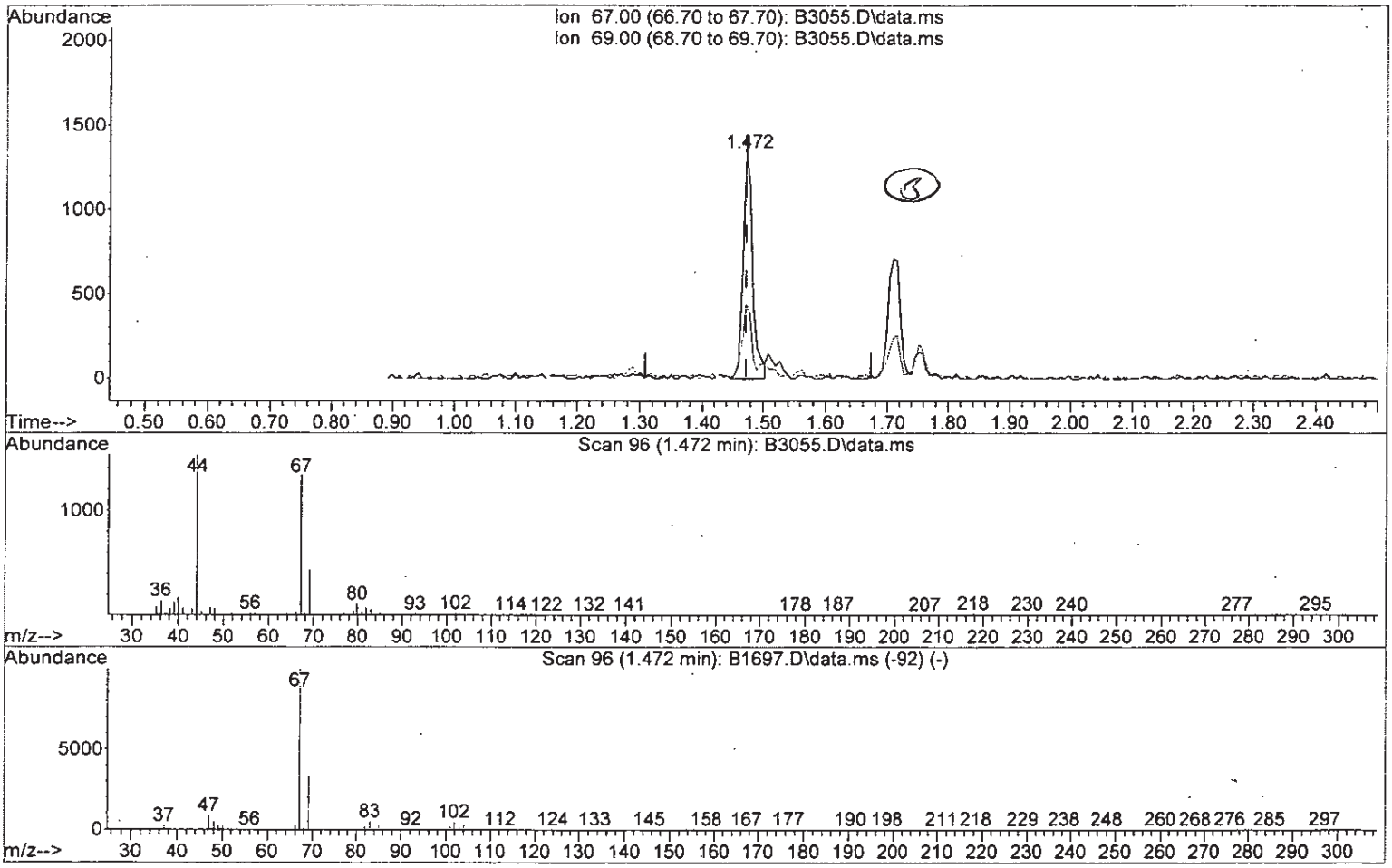
1.100min (-0.000) 0.47 ug/L m

response 948

Ion	Exp%	Act%
62.00	100	100
64.00	33.80	34.39
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(7) Freon 21

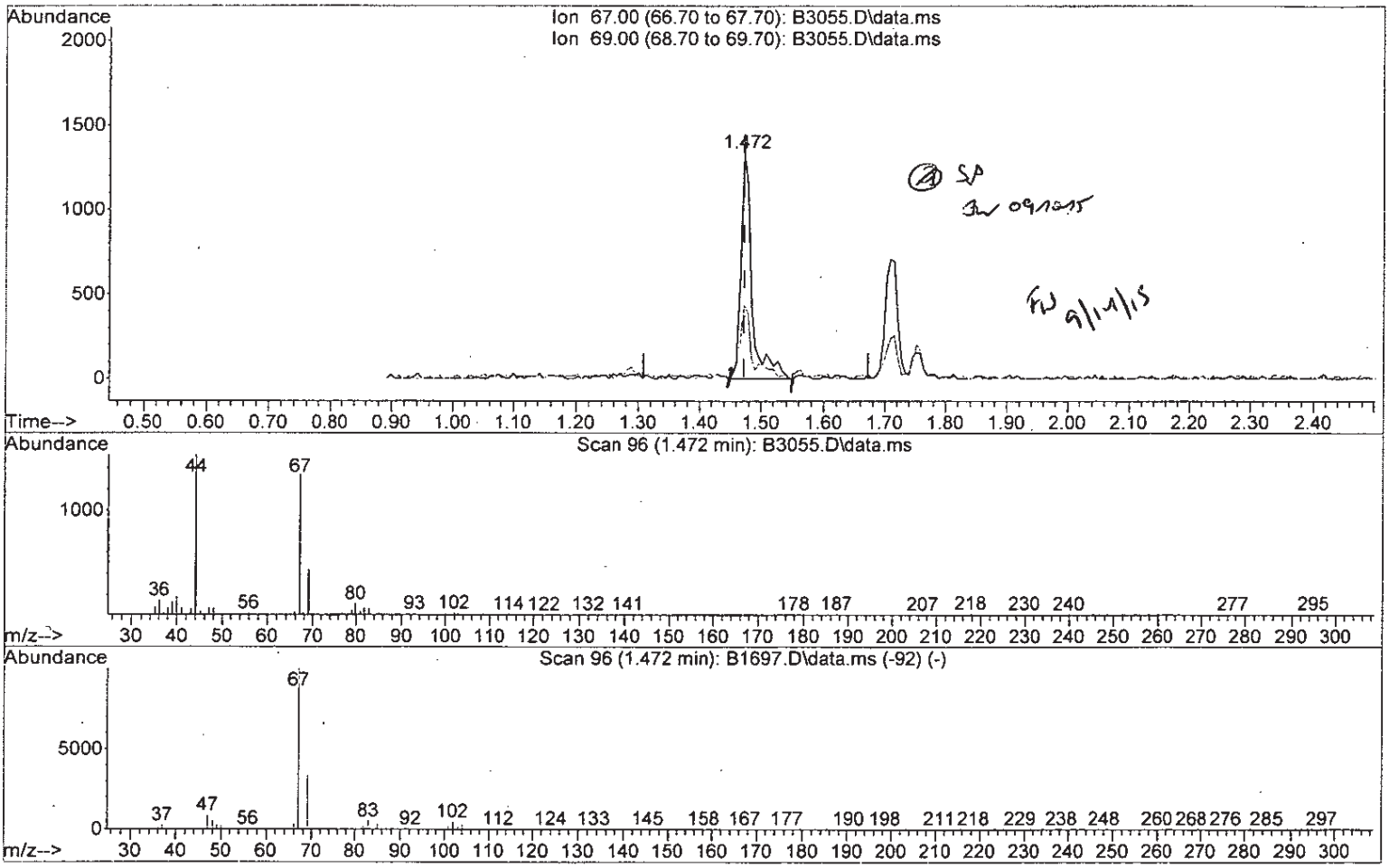
1.472min (-0.000) 0.40 ug/L

response 1460

Ion	Exp%	Act%
67.00	100	100
69.00	30.30	32.59
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(7) Freon 21

1.472min (-0.000) 0.45 ug/L m

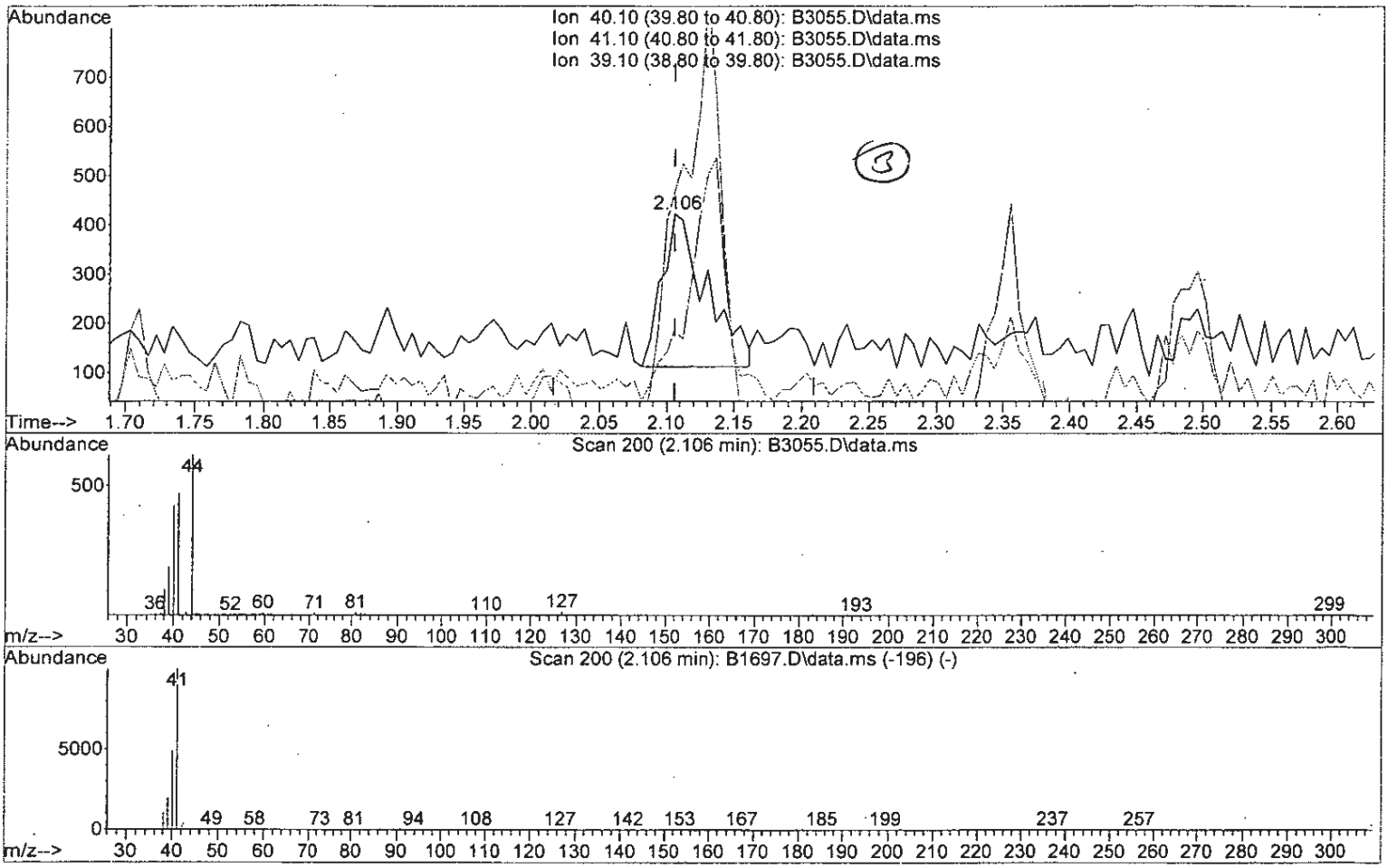
response 1645

Ion	Exp%	Act%
67.00	100	100
69.00	30.30	32.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(19) Acetonitrile

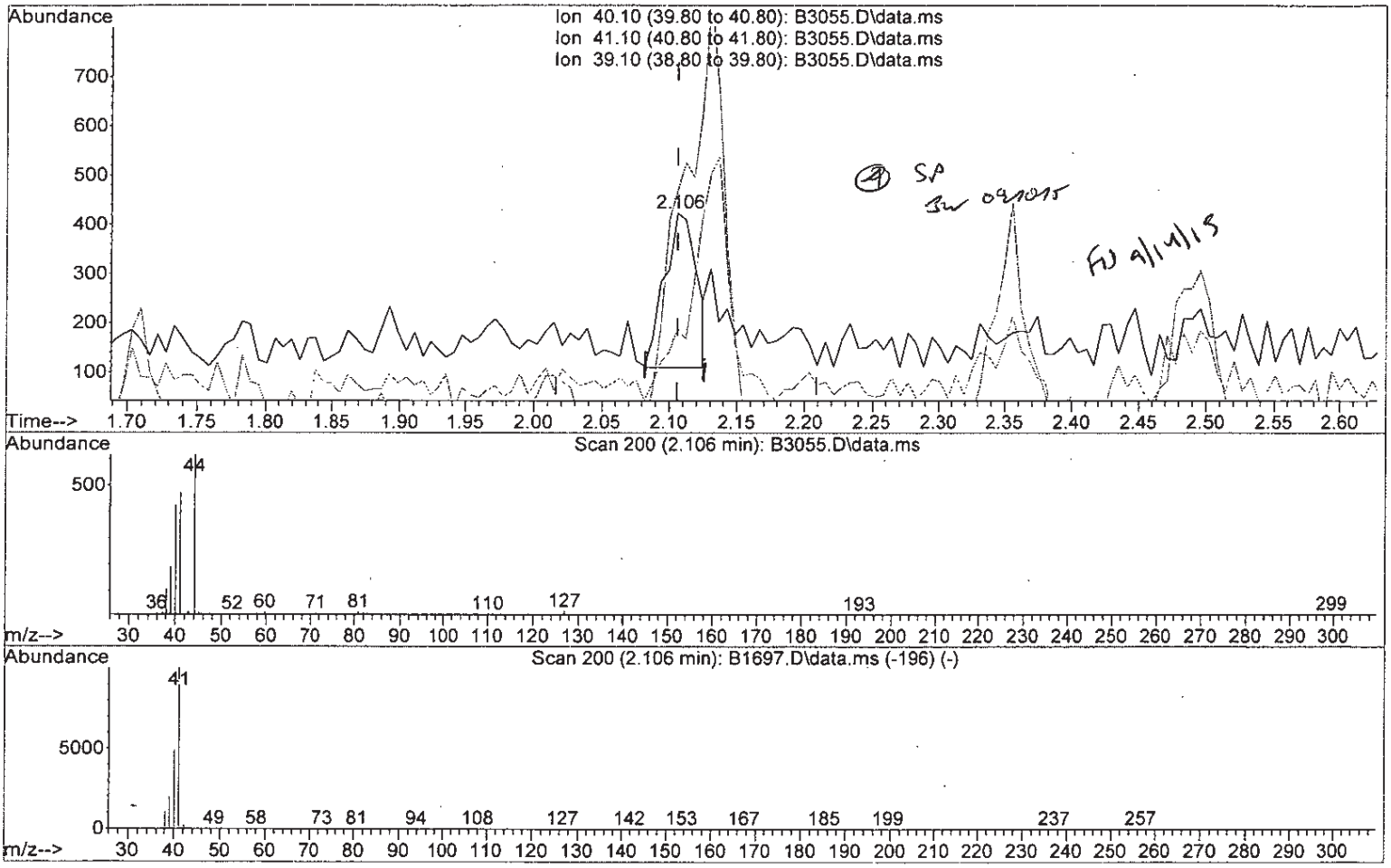
2.106min (-0.000) 4.40 ug/L

response 714

Ion	Exp%	Act%
40.10	100	100
41.10	191.80	111.11#
39.10	39.30	44.92
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(19) Acetonitrile

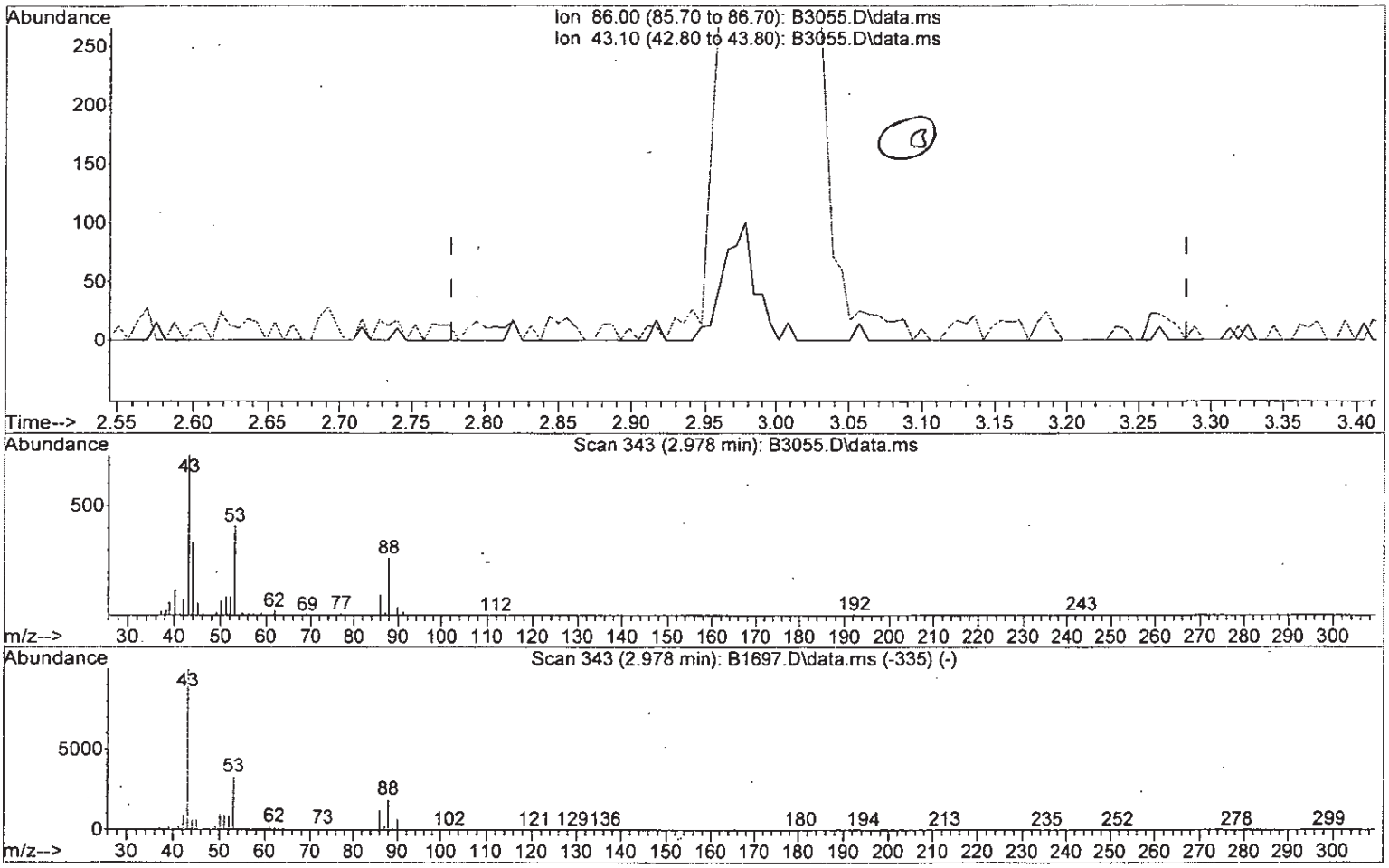
2.106min (-0.000) 3.13 ug/L m

response 508

Ion	Exp%	Act%
40.10	100	100
41.10	191.80	111.11#
39.10	39.30	44.92
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(28) Vinyl Acetate

2.977min (-2.977) 0.00 ug/L

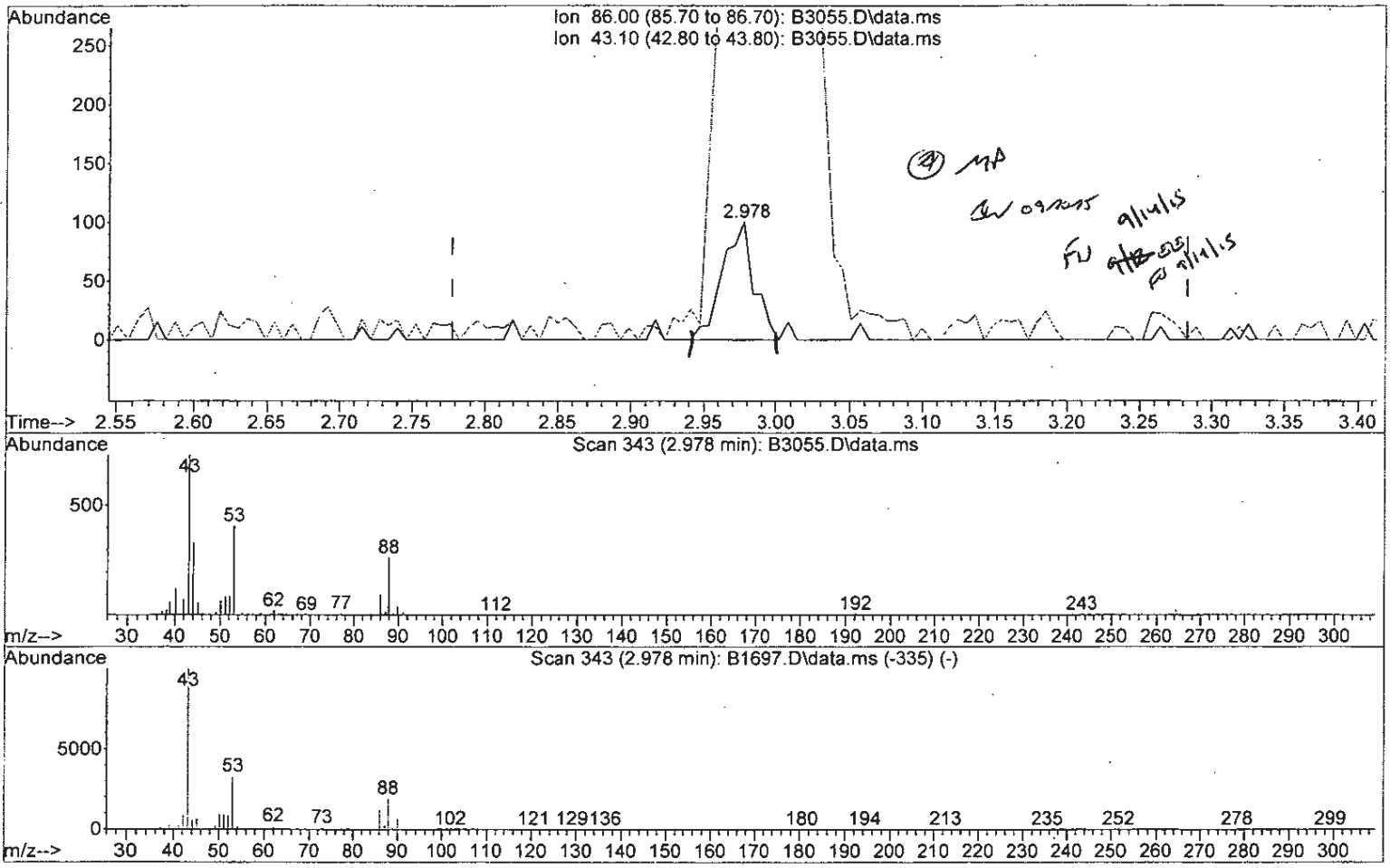
response 0

Ion	Exp%	Act%
86.00	100	0.00
43.10	738.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

00314

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(28) Vinyl Acetate

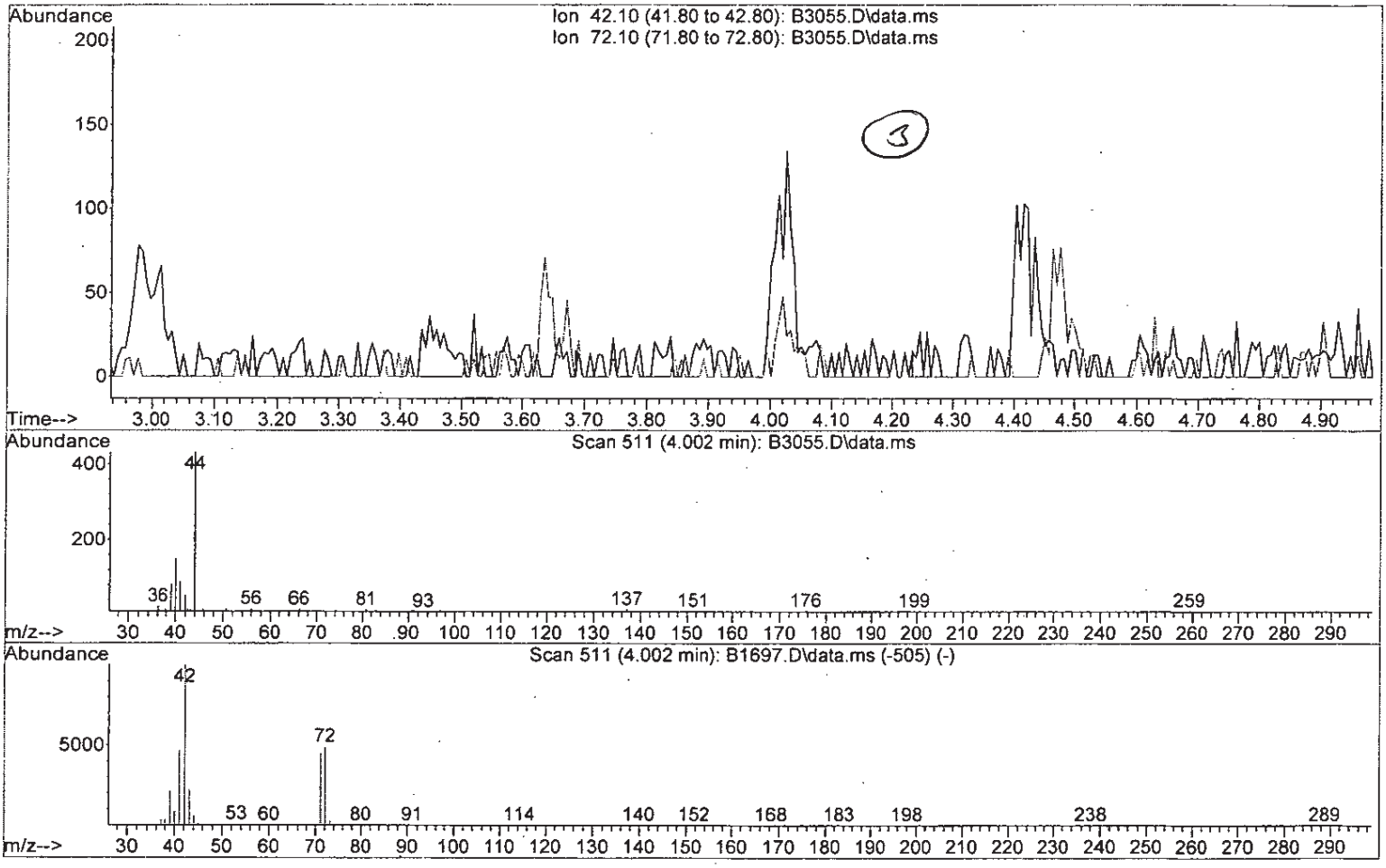
2.978min (+0.001) 0.34 ug/L m

response 152

Ion	Exp%	Act%
86.00	100	100
43.10	738.90	724.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(38) Tetrahydrofuran

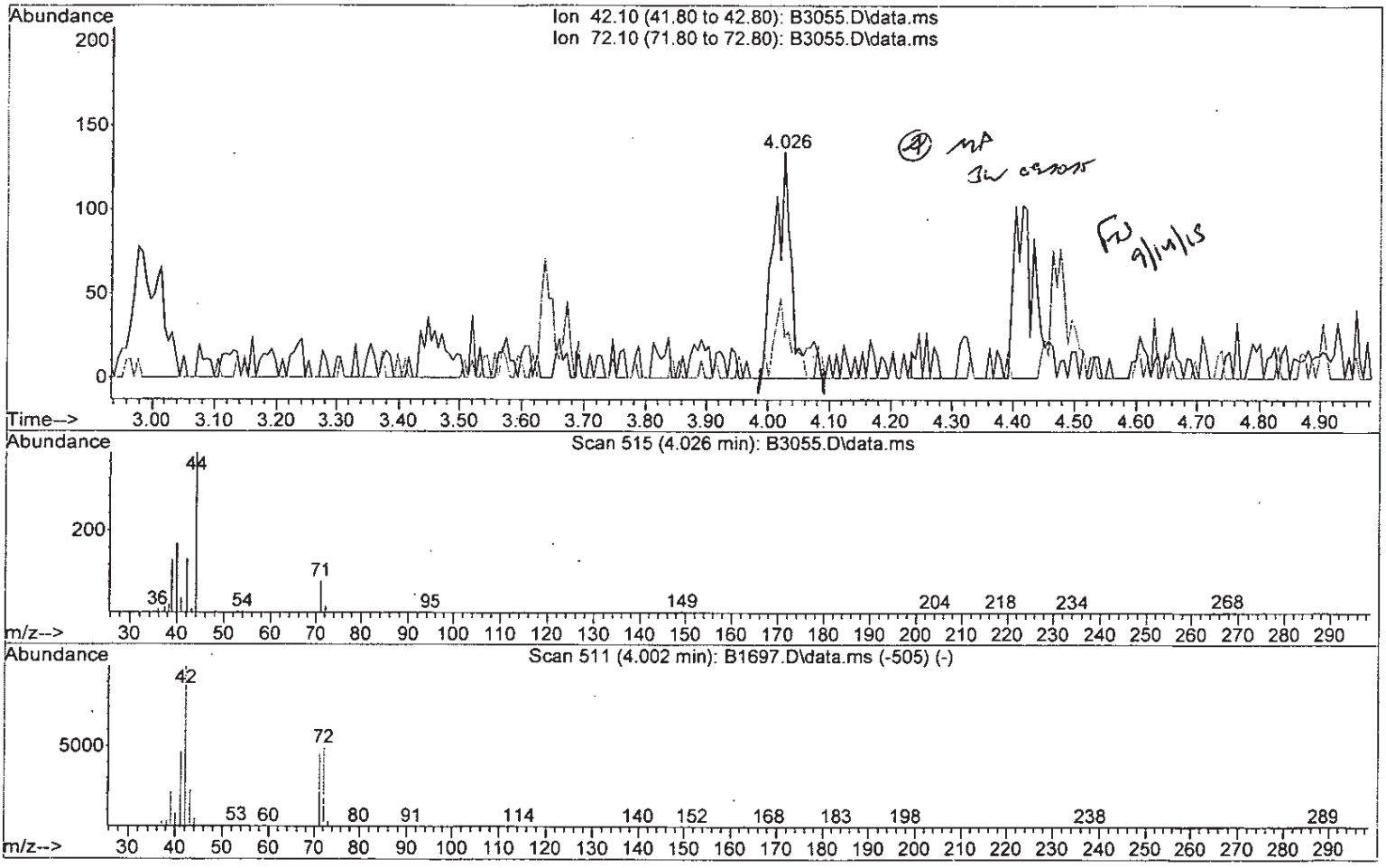
4.002min (-4.002) 0.00 ug/L

response 0

Ion	Exp%	Act%
42.10	100	0.00
72.10	46.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(38) Tetrahydrofuran

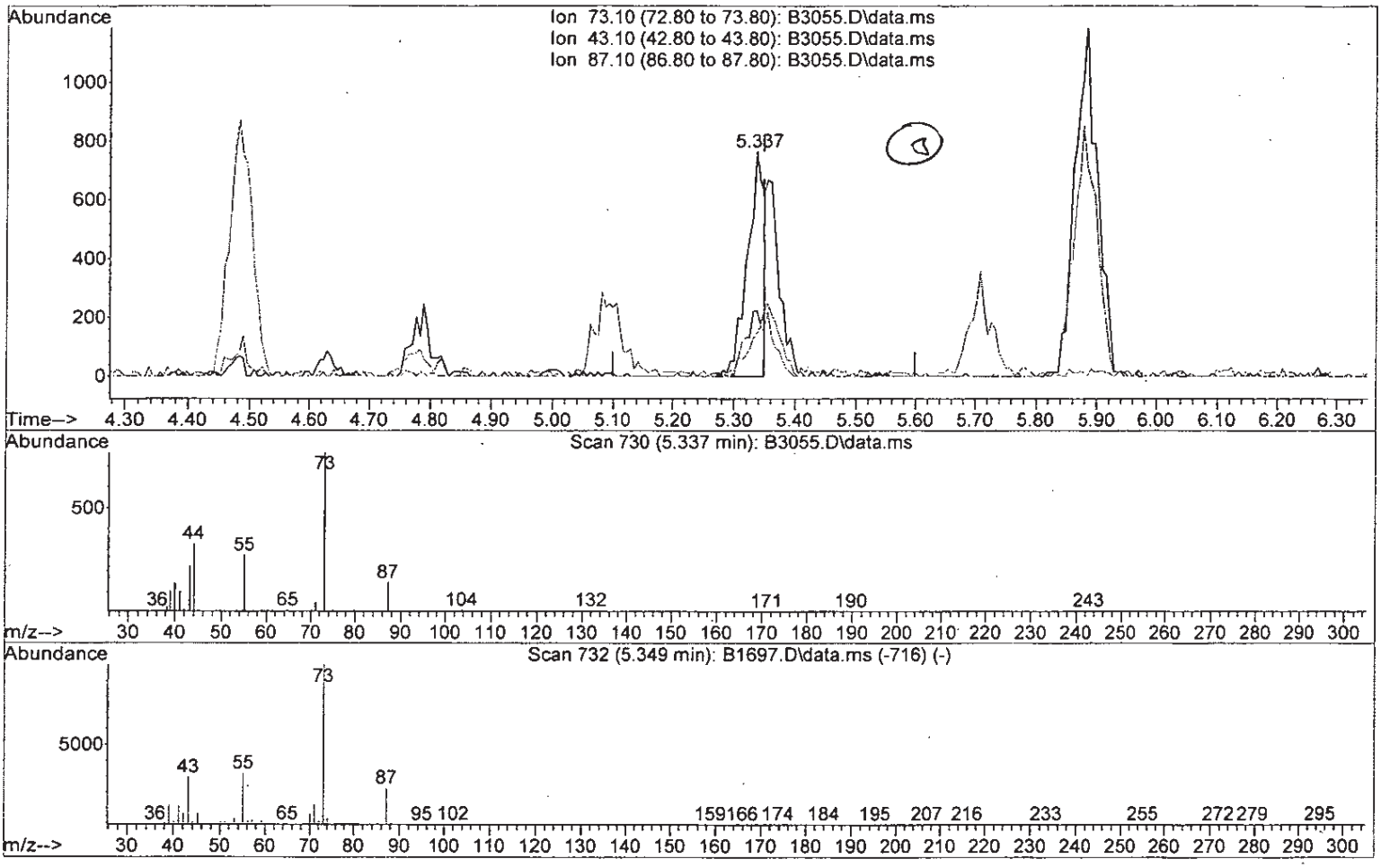
4.026min (+0.024) 0.41 ug/L m

response 275

Ion	Exp%	Act%
42.10	100	100
72.10	46.60	17.91#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(41) TAME

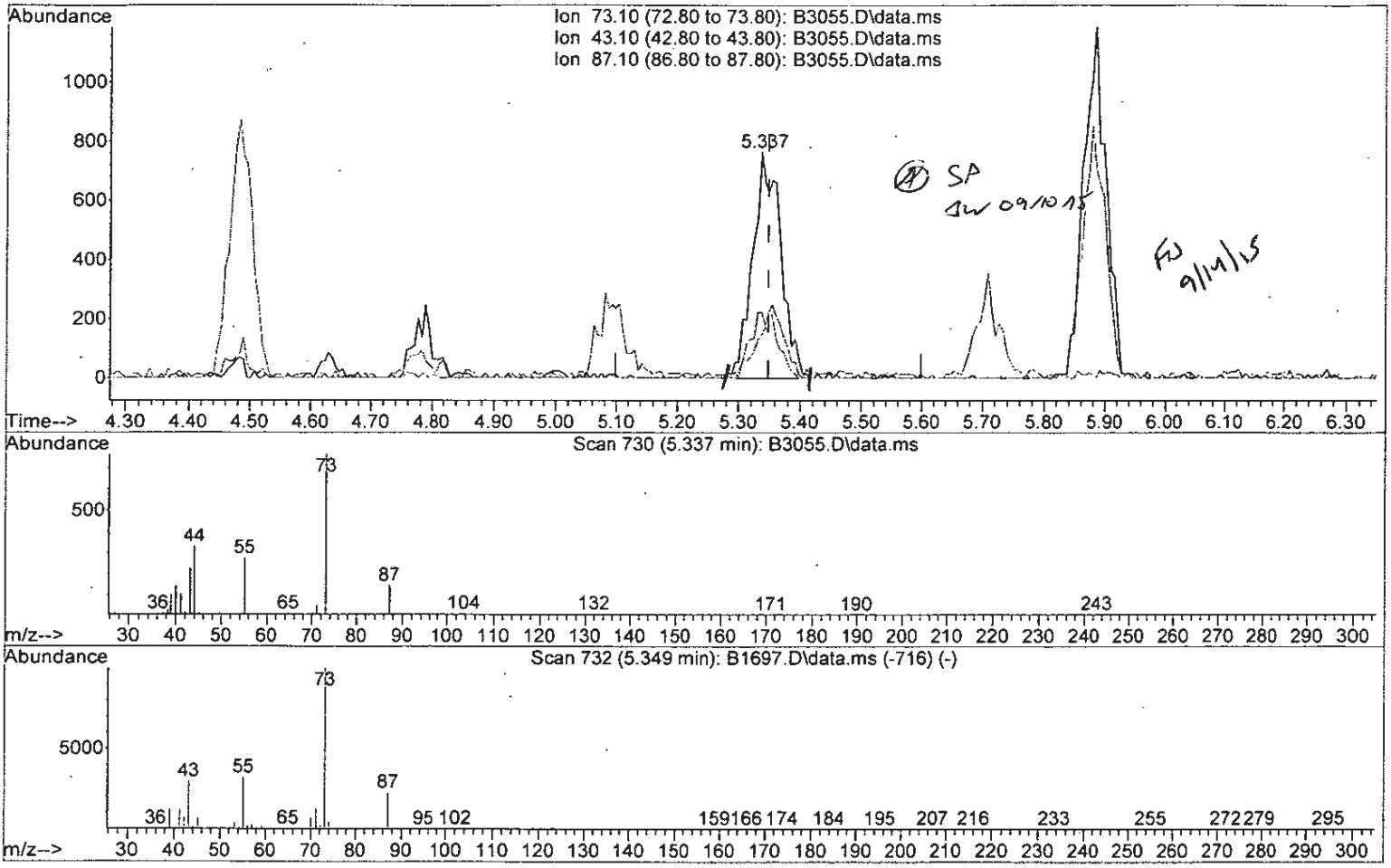
5.337min (-0.012) 0.31 ug/L

response 1454

Ion	Exp%	Act%
73.10	100	100
43.10	28.20	29.19
87.10	24.30	19.11
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(41) TAME

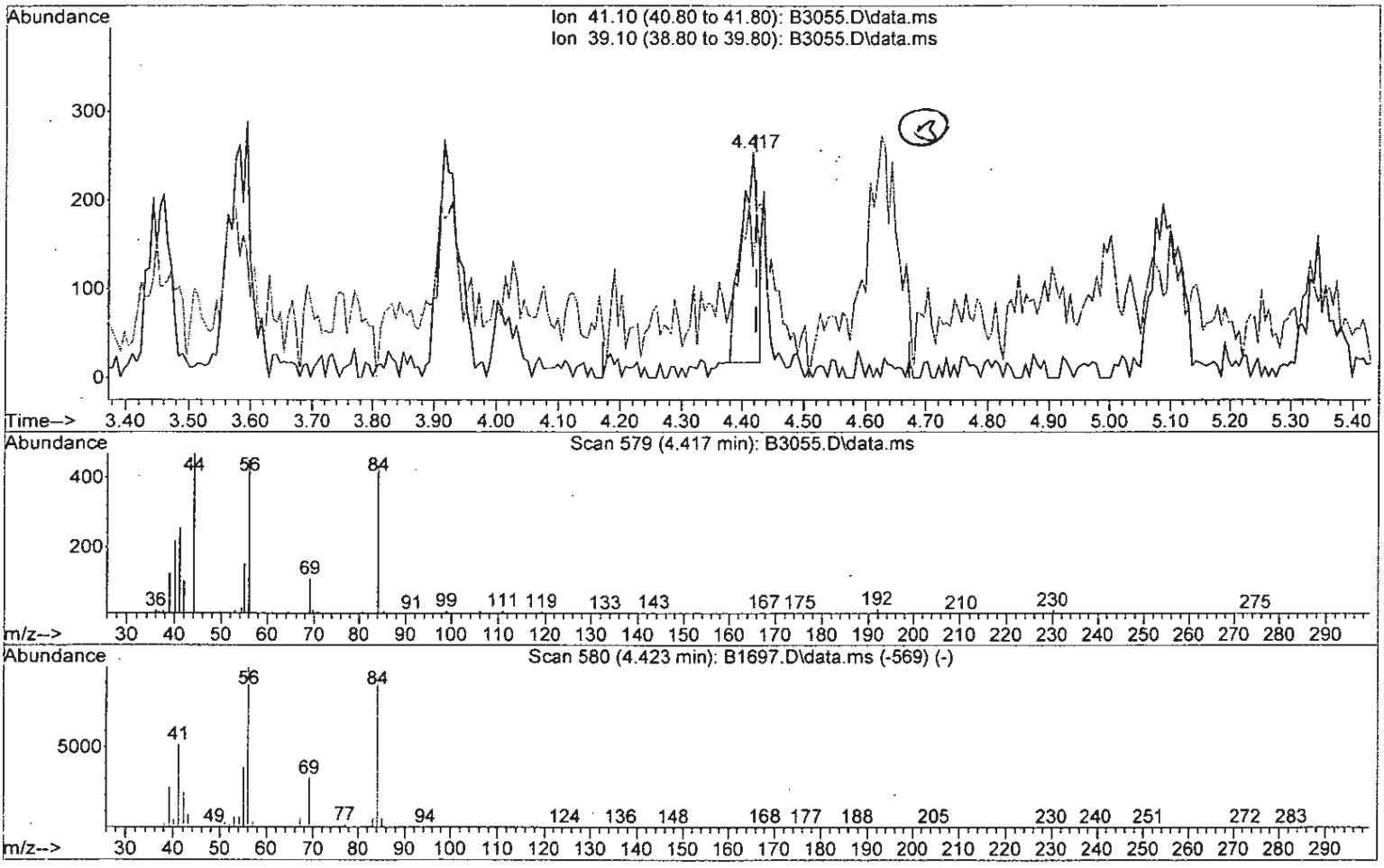
5.337min (-0.012) 0.52 ug/L m

response 2417

Ion	Exp%	Act%
73.10	100	100
43.10	28.20	29.19
87.10	24.30	19.11
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(43) Cyclohexane (P)

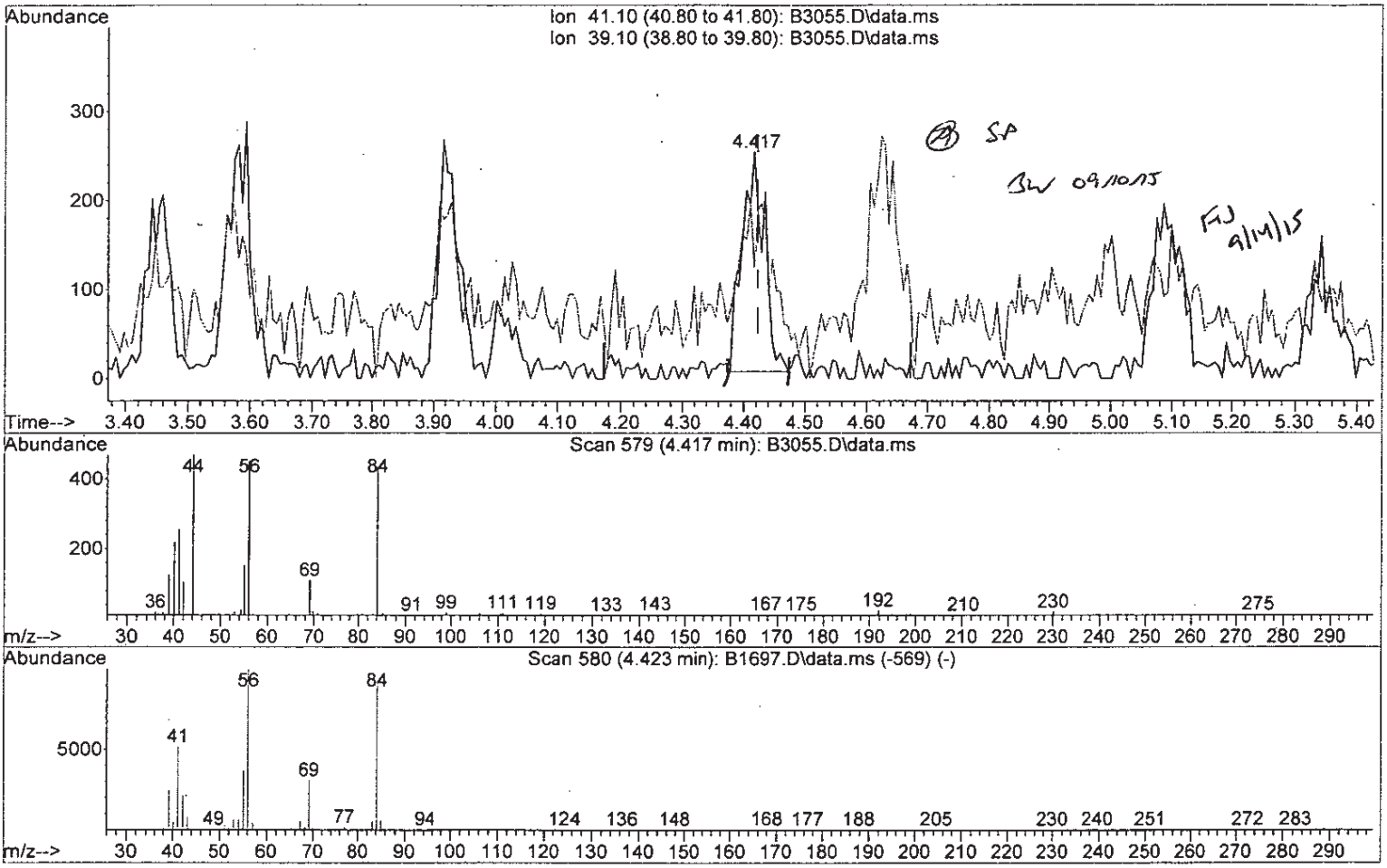
4.417min (-0.006) 0.36 ug/L

response 445

Ion	Exp%	Act%
41.10	100	100
39.10	49.60	49.21
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(43) Cyclohexane (P)

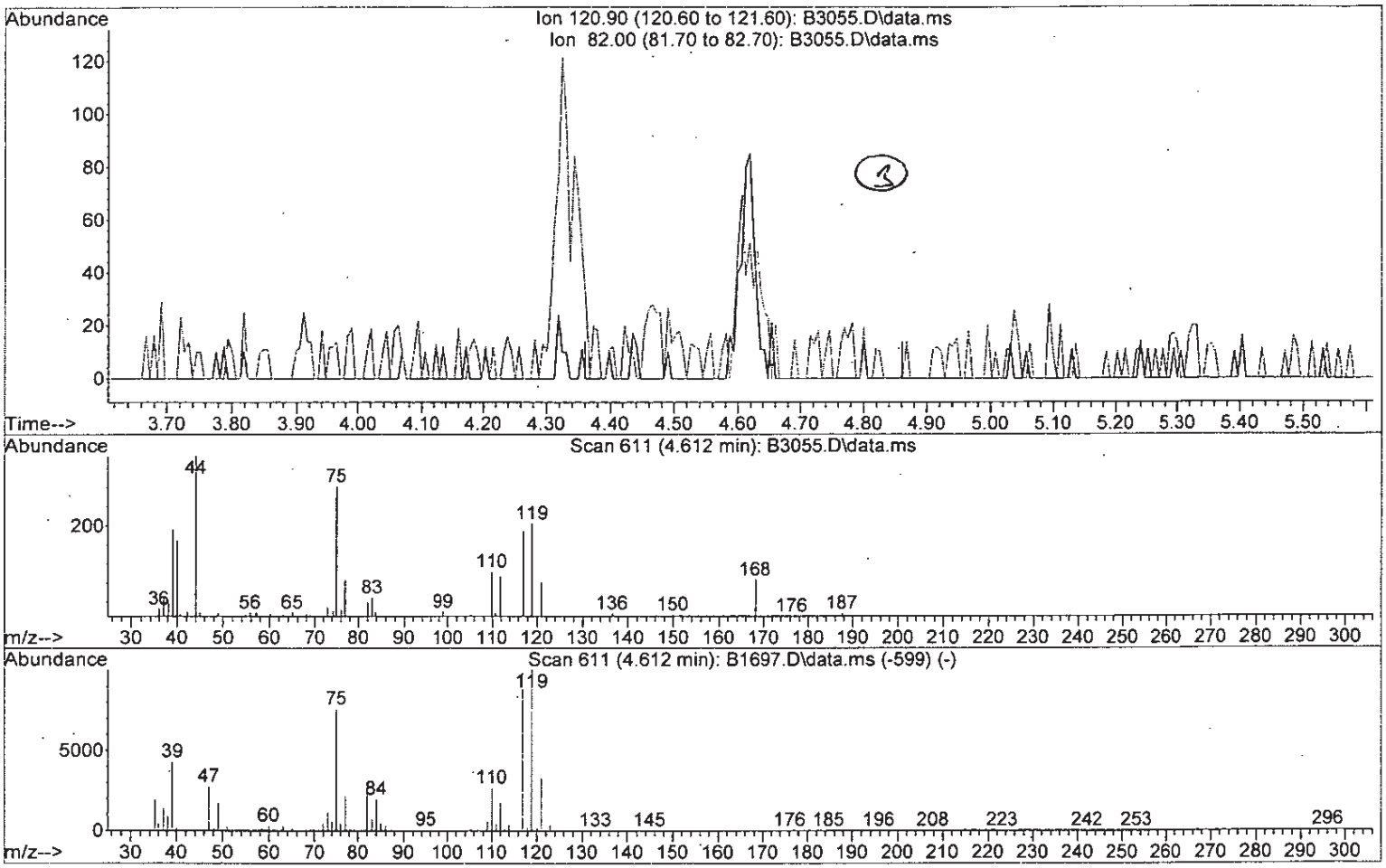
4.417min (-0.006) 0.49 ug/L m

response 613

Ion	Exp%	Act%
41.10	100	100
39.10	49.60	49.21
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(45) Carbontetrachloride (P)

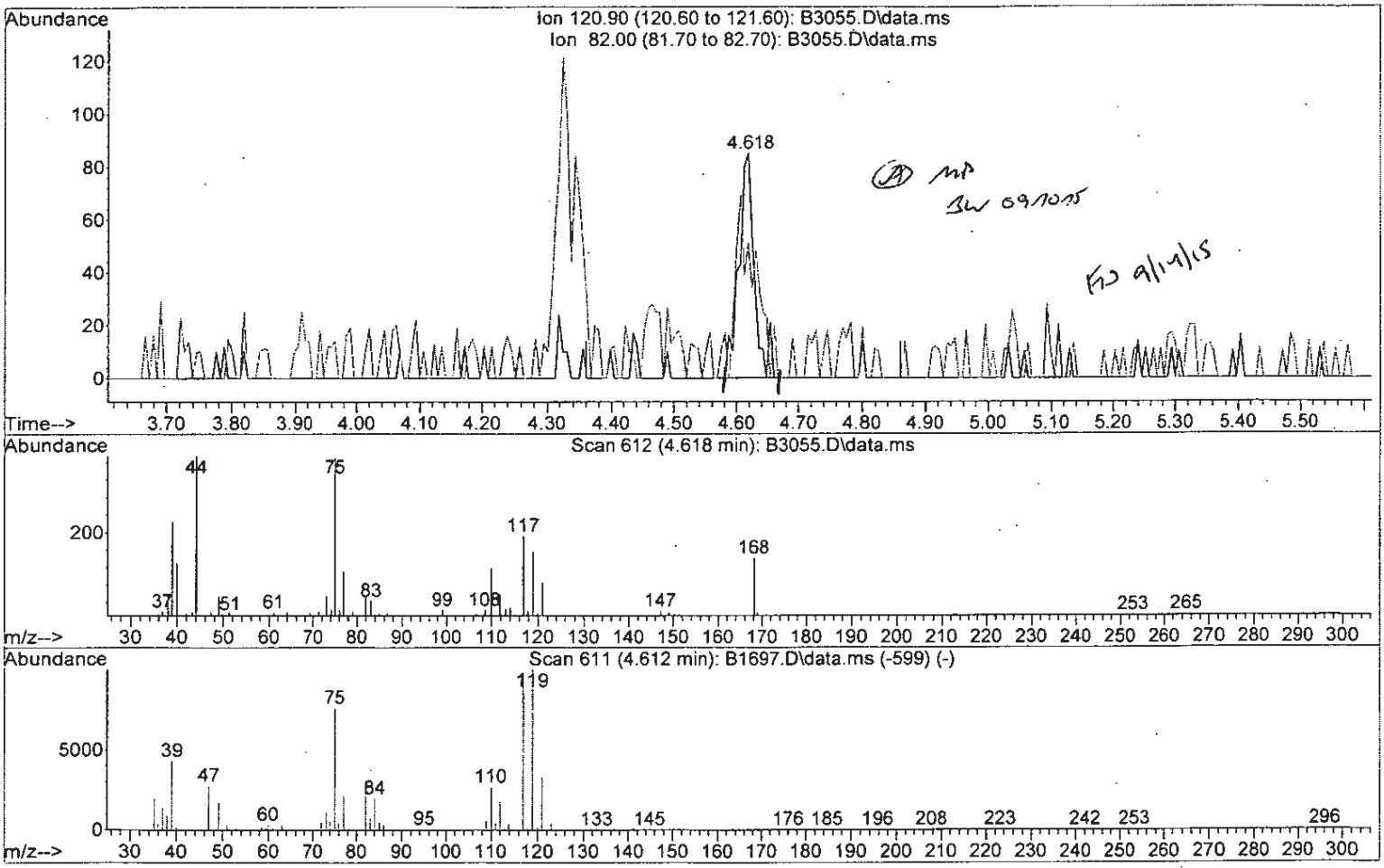
4.611min (-4.611) 0.00 ug/L

response 0

Ion	Exp%	Act%
120.90	100	0.00
82.00	94.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(45) Carbontetrachloride (P)

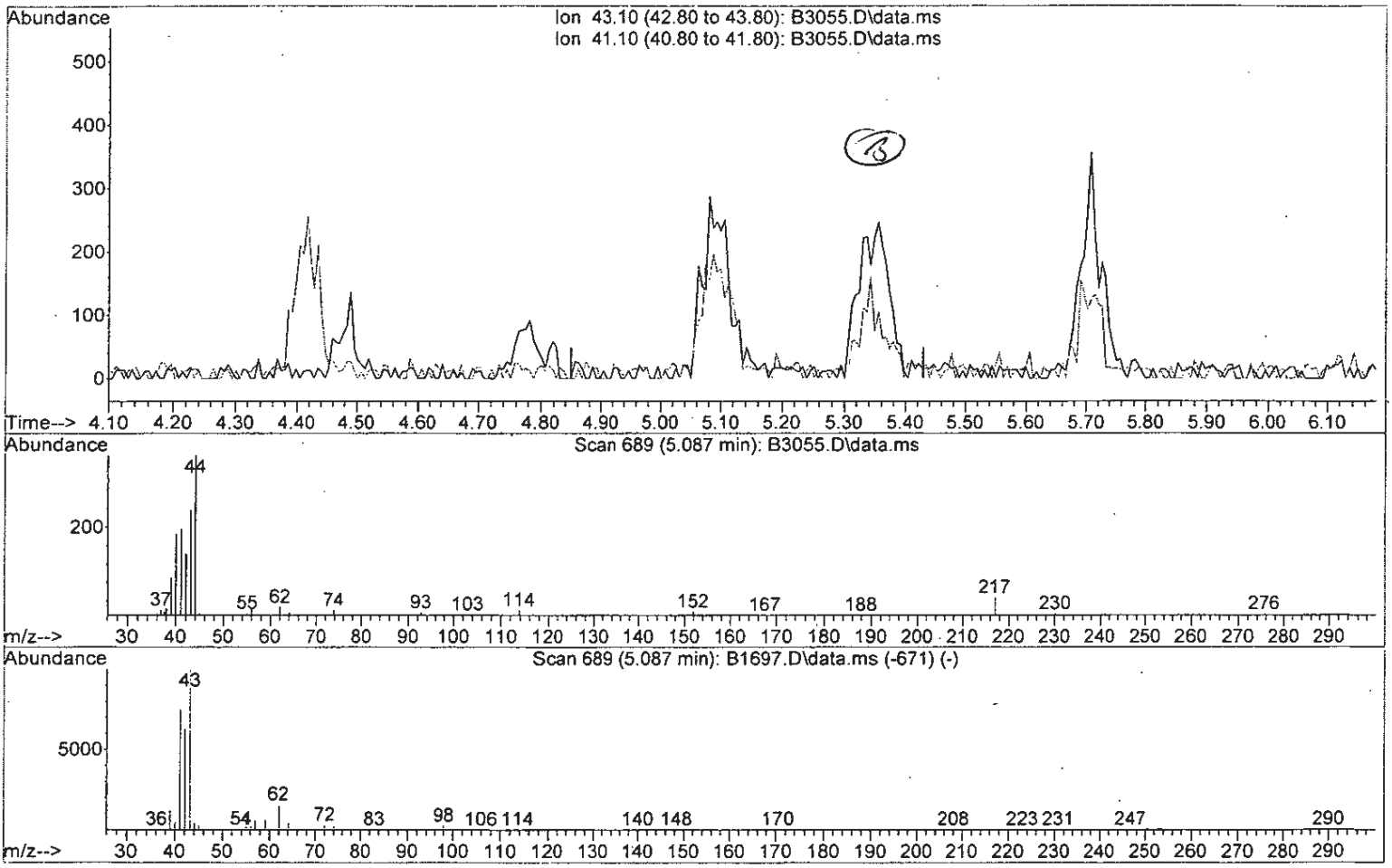
4.618min (+0.007) 0.25 ug/L m

response 146

Ion	Exp%	Act%
120.90	100	100
82.00	94.60	60.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(50) Iso-Butyl Alcohol

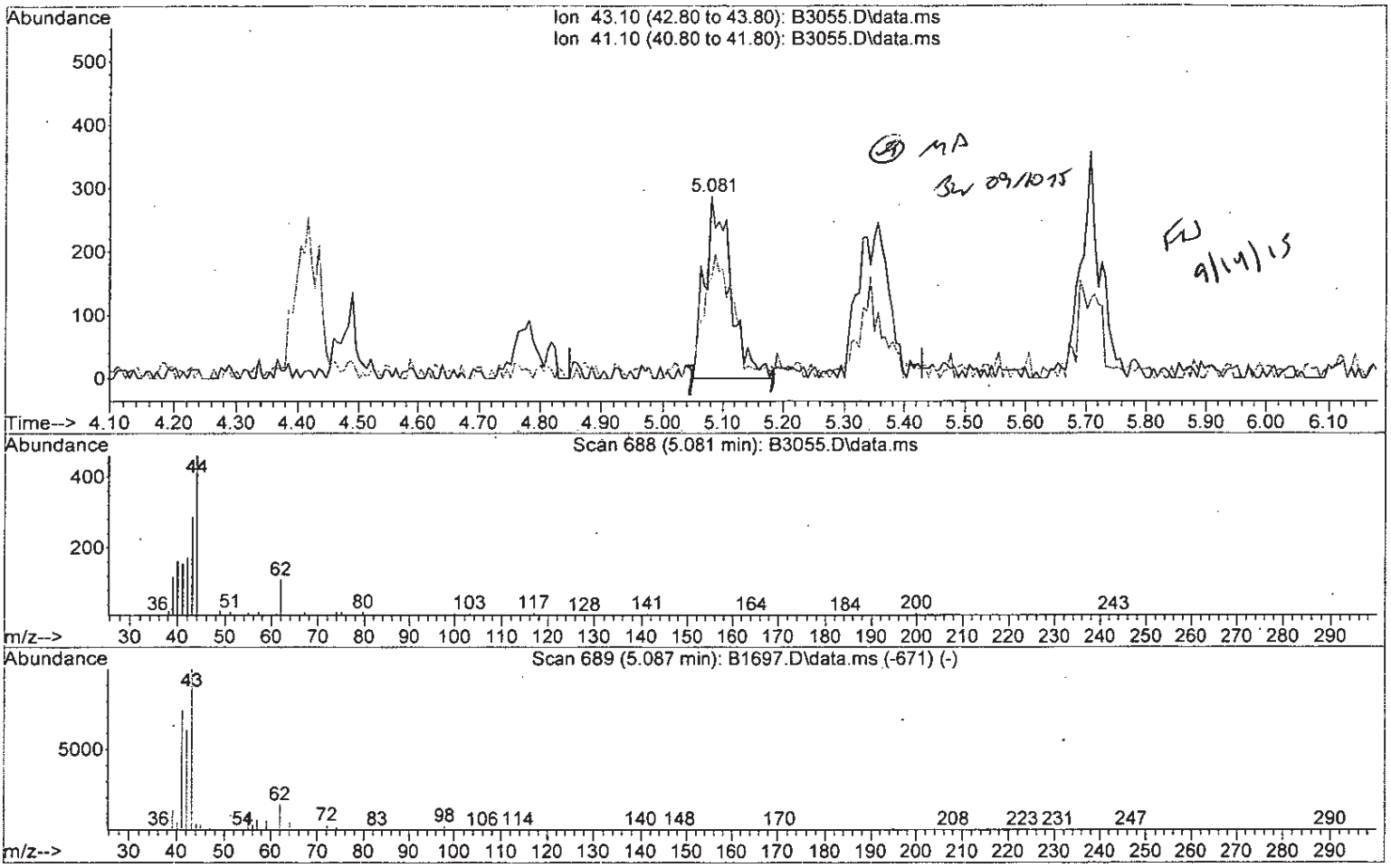
5.087min (-5.087) 0.00 ug/L

response 0

Ion	Exp%	Act%
43.10	100	0.00
41.10	75.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(50) Iso-Butyl Alcohol

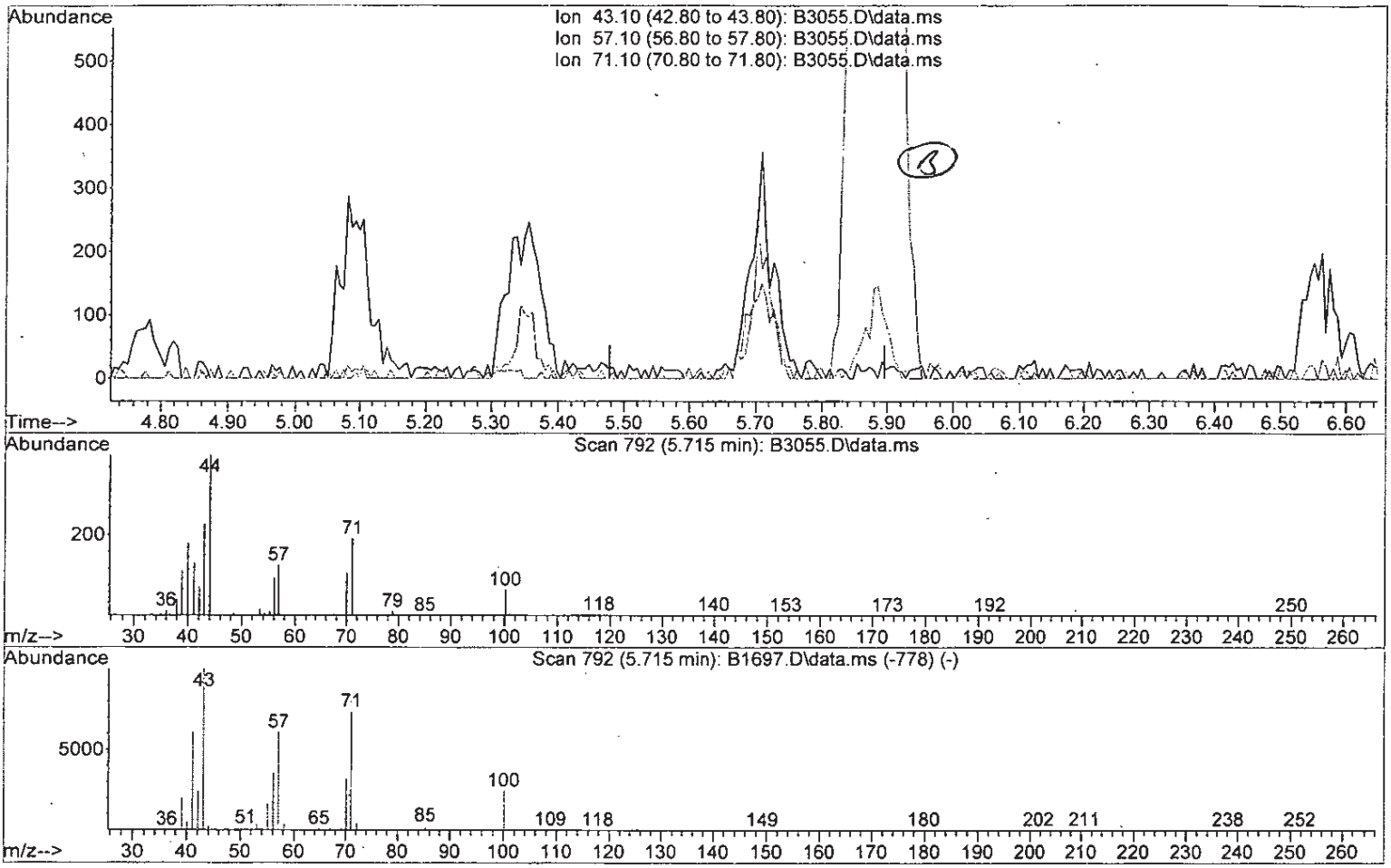
5.081min (-0.006) 8.60 ug/L m

response 876

Ion	Exp%	Act%
43.10	100	100
41.10	75.80	54.01#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(51) n-Heptane

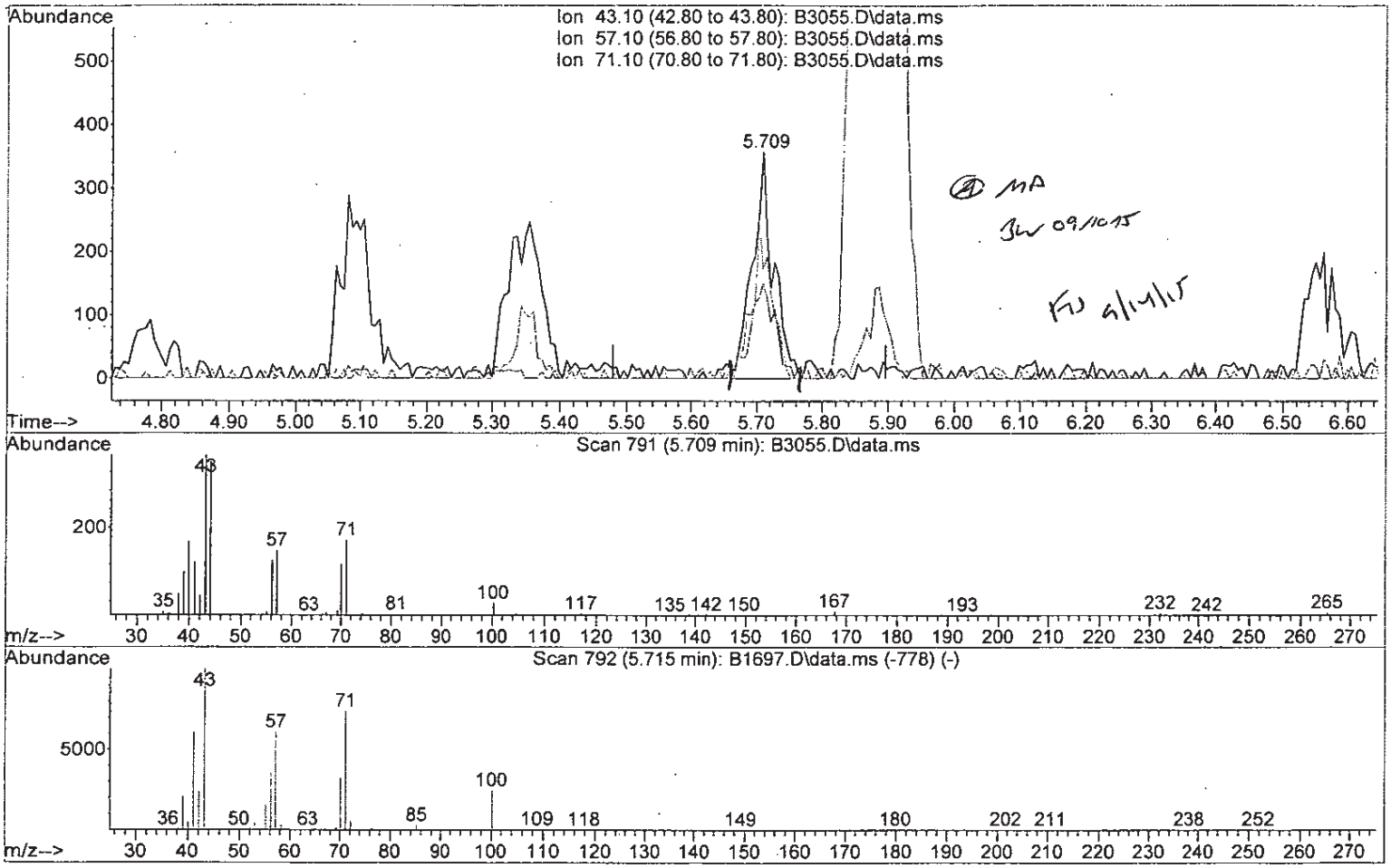
5.715min (-5.715) 0.00 ug/L

response 0

Ion	Exp%	Act%
43.10	100	0.00
57.10	62.80	0.00#
71.10	78.90	0.00#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 ~ 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(51) n-Heptane

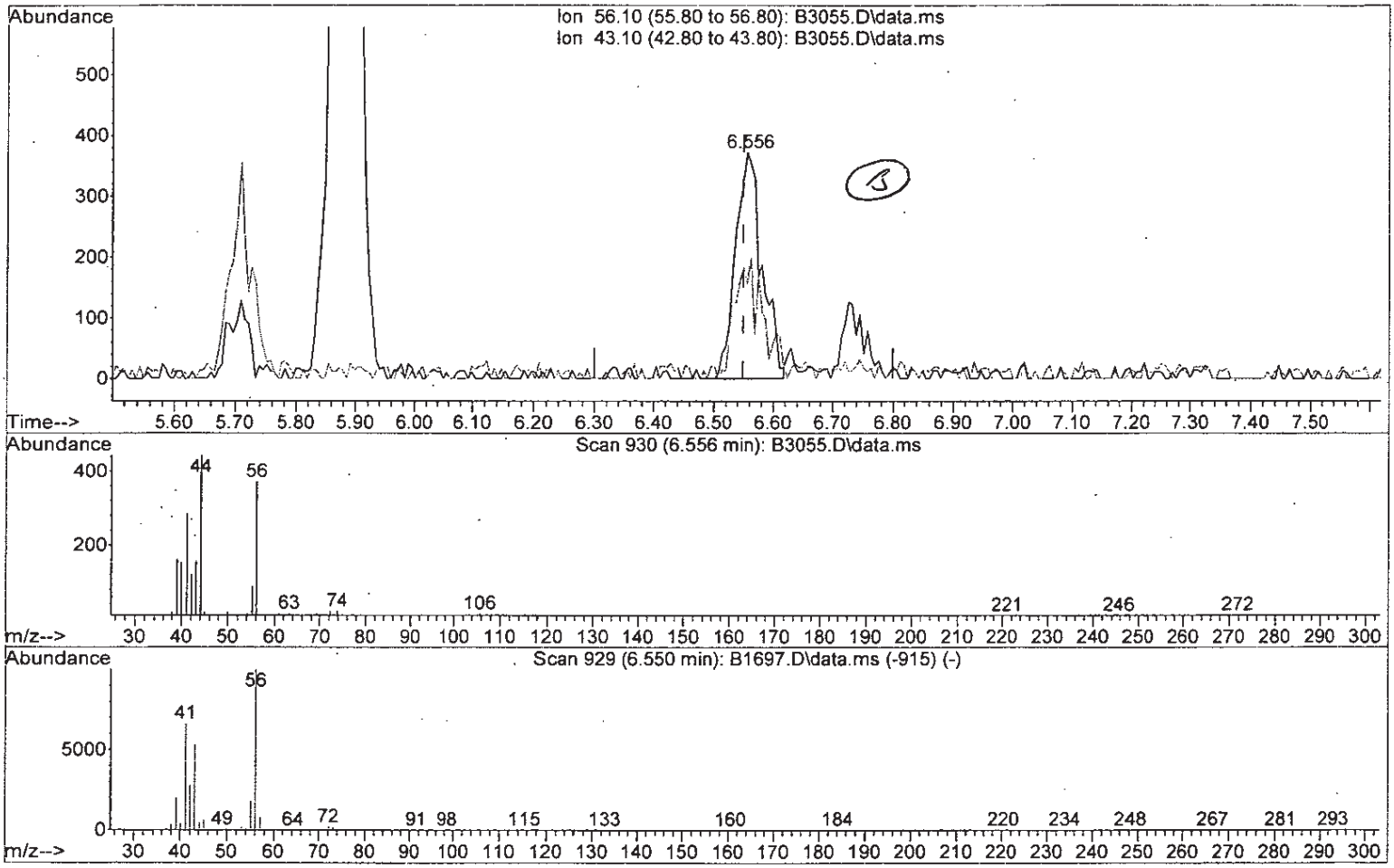
5.709min (-0.006) 0.69 ug/L m

response 796

Ion	Exp%	Act%
43.10	100	100
57.10	62.80	41.85#
71.10	78.90	48.31#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(52) 1-Butanol

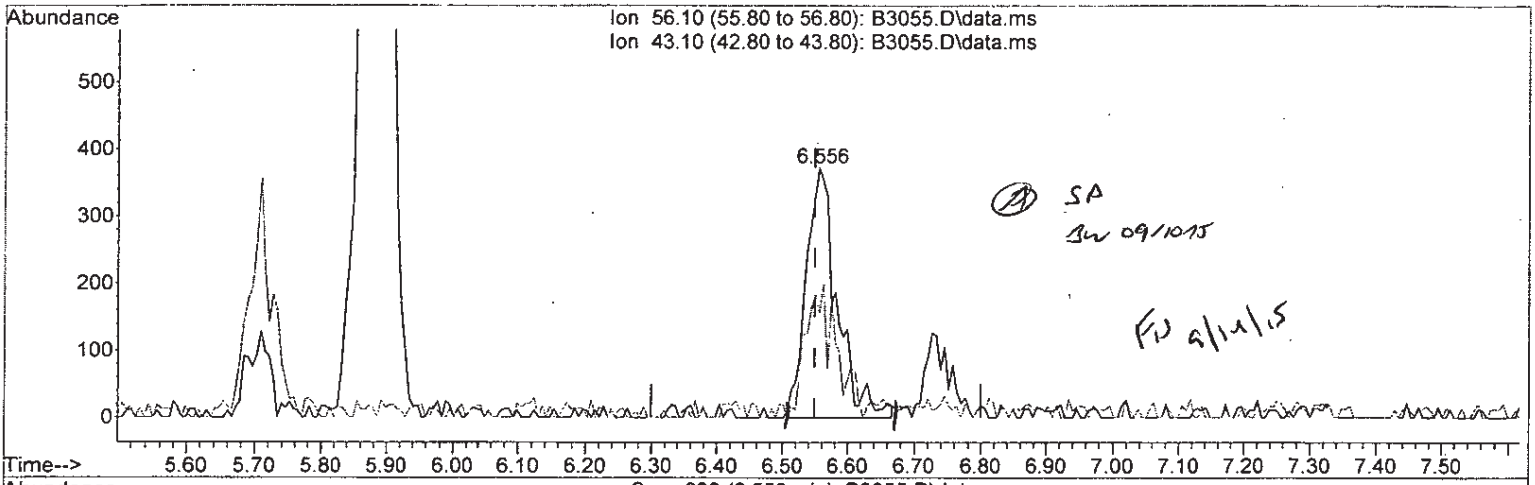
6.556min (+0.006) 17.40 ug/L

response 1152

Ion	Exp%	Act%
56.10	100	100
43.10	51.10	41.94
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



SA
BW 09/10/15

FJ 9/14/15

TIC: B3055.D\data.ms

(52) 1-Butanol

6.556min (+0.006) 18.36 ug/L m

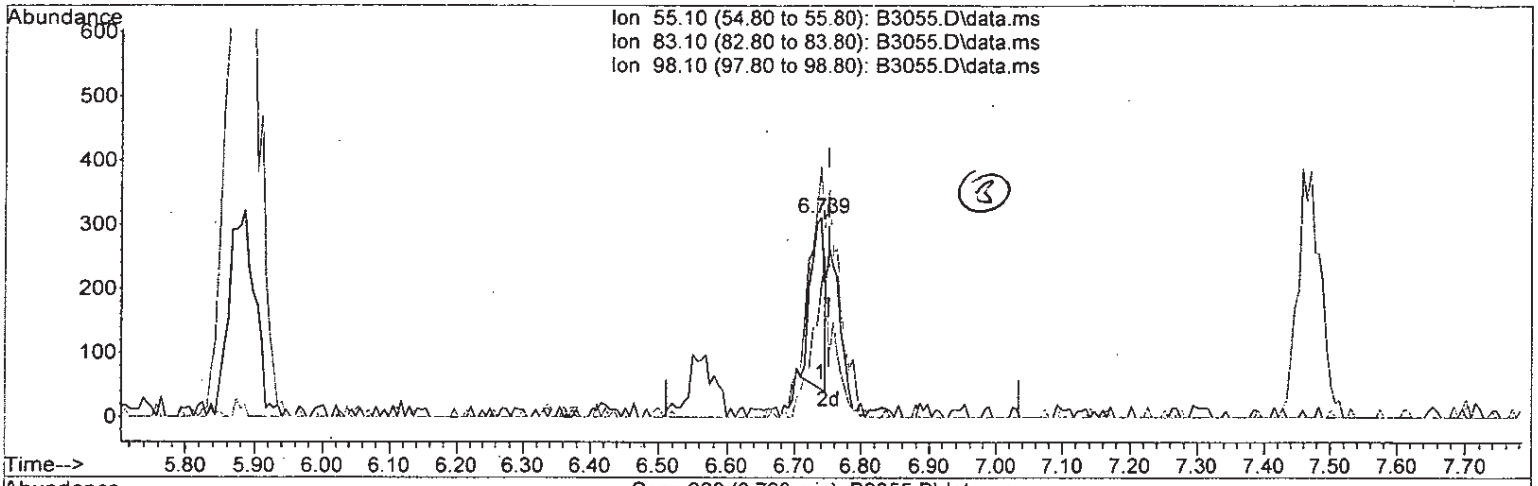
response 1216

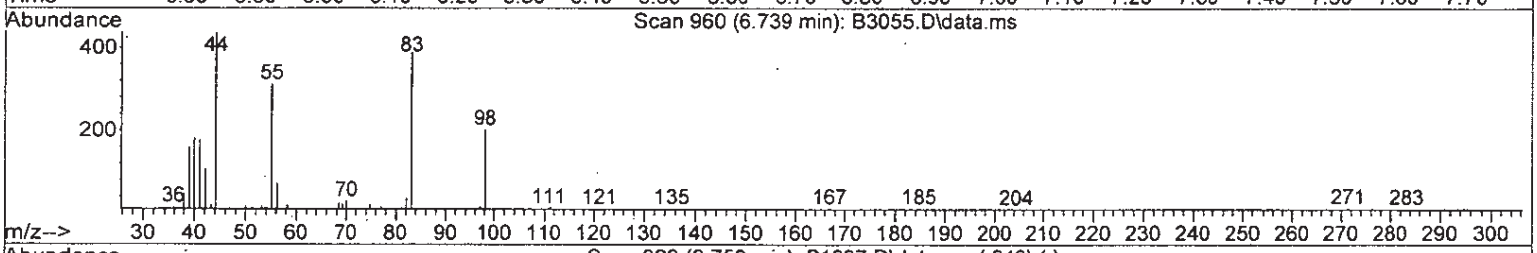
Ion	Exp%	Act%
56.10	100	100
43.10	51.10	41.94
0.00	0.00	0.00
0.00	0.00	0.00

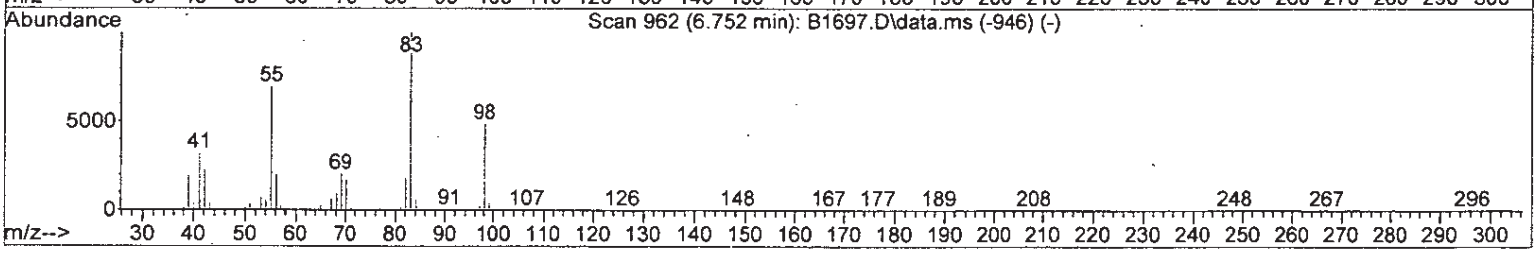
Quantitation Report (Quan)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration







TIC: B3055.D\data.ms

(54) Methylcyclohexane (P)

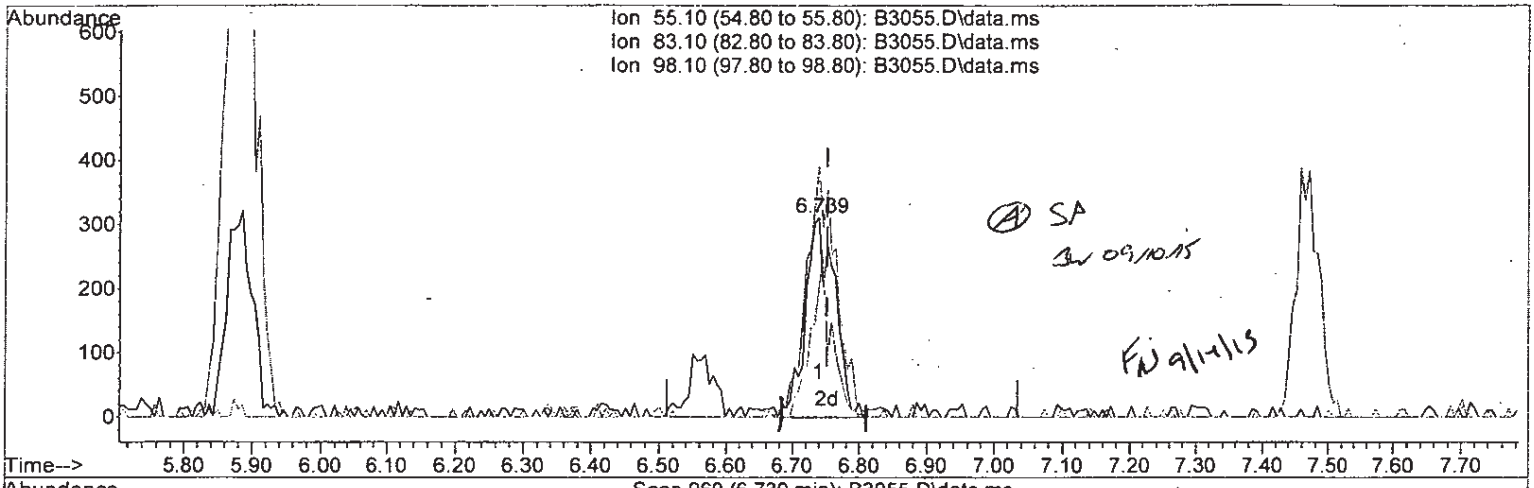
6.739min (-0.012) 0.25 ug/L

response 379

Ion	Exp%	Act%
55.10	100	100
83.10	148.10	125.08#
98.10	71.20	64.63
0.00	0.00	0.00

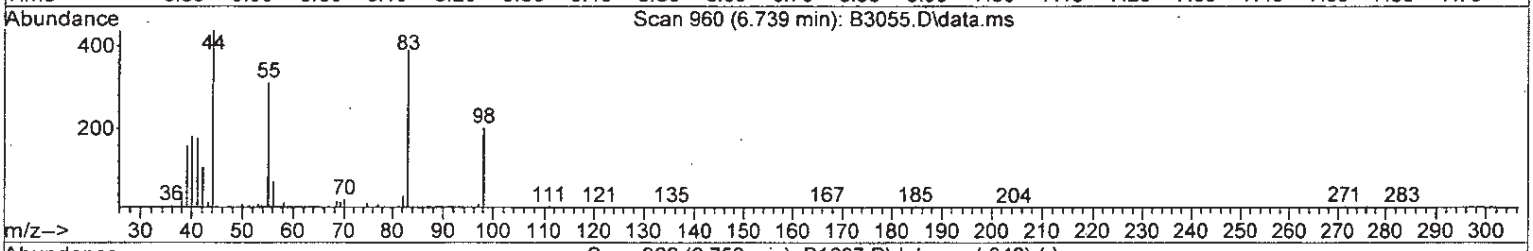
Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

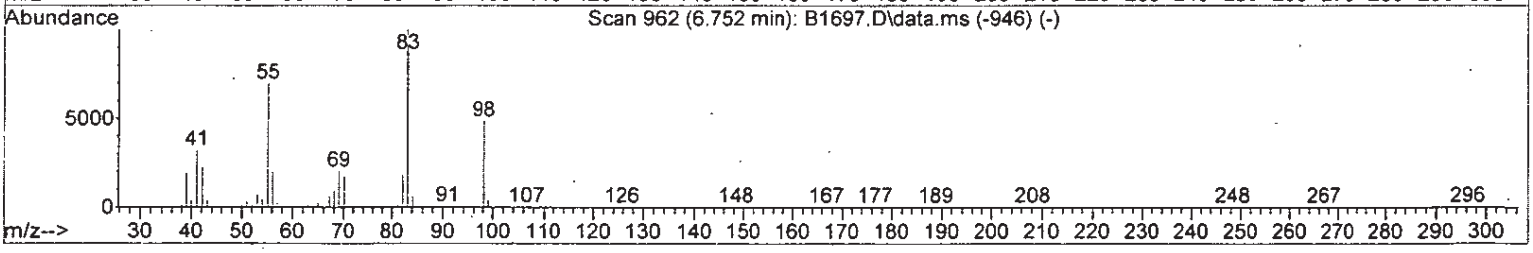
Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



Ⓐ SA 09/10/15

FN 9/11/15





TIC: B3055.D\data.ms

(54) Methylcyclohexane (P)

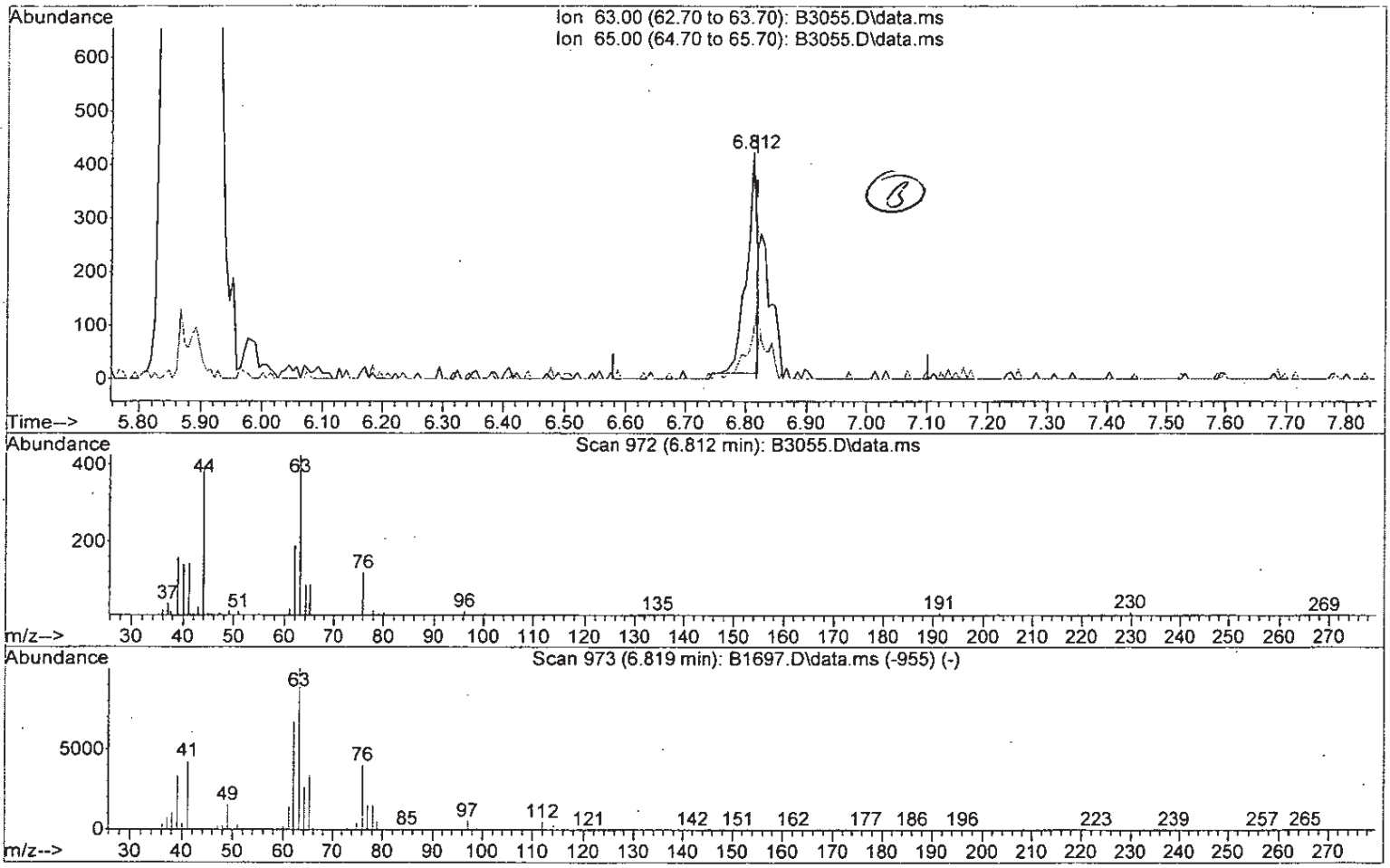
6.739min (-0.012) 0.62 ug/L m

response 941

Ion	Exp%	Act%
55.10	100	100
83.10	148.10	125.08#
98.10	71.20	64.63
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(55) 1,2-Diclpropane (P)

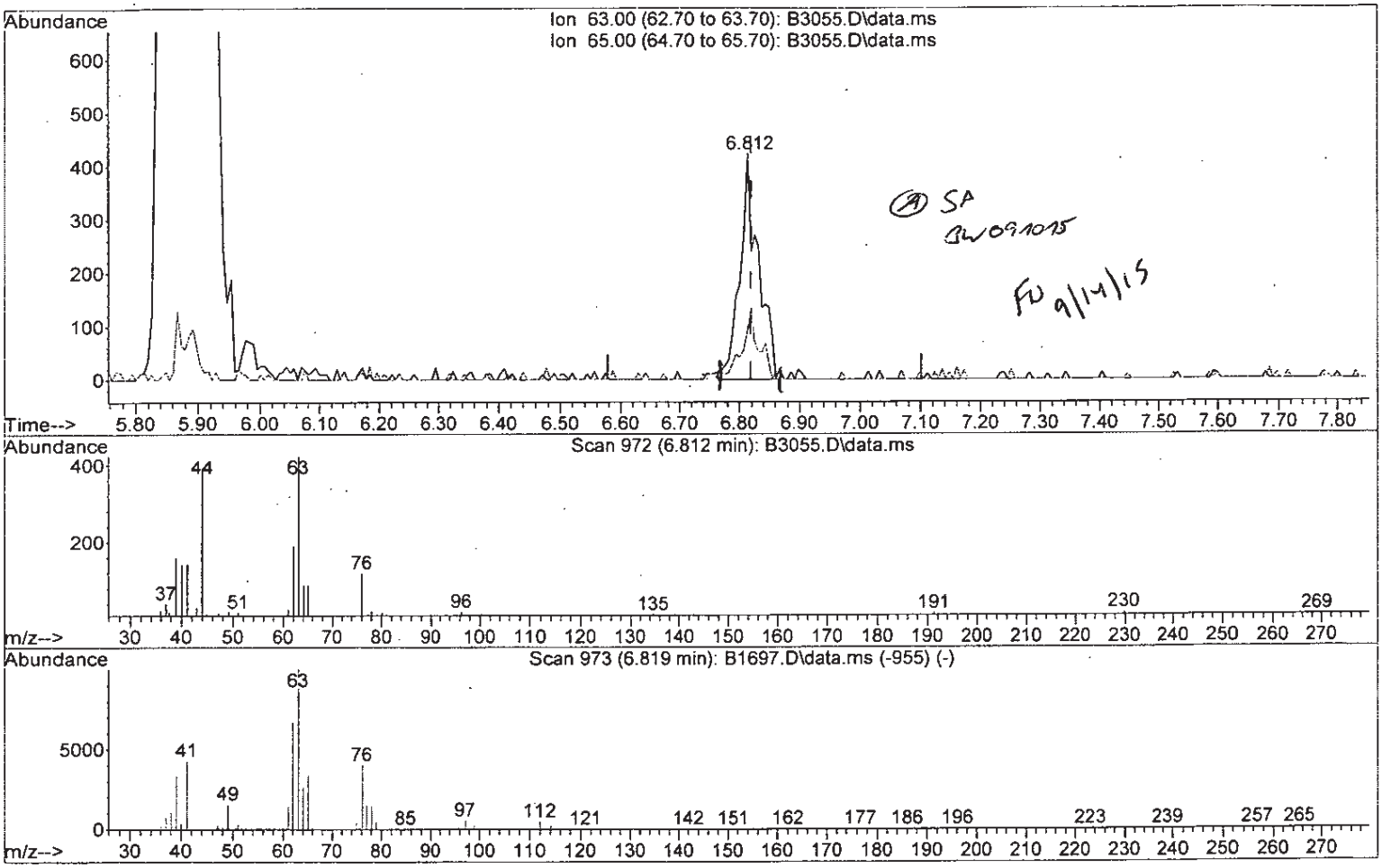
6.812min (-0.006) 0.28 ug/L

response 485

Ion	Exp%	Act%
63.00	100	100
65.00	30.10	20.85
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



SA
BW091015
FD 9/14/15

TIC: B3055.D\data.ms

(55) 1,2-Dichlpropane (P)

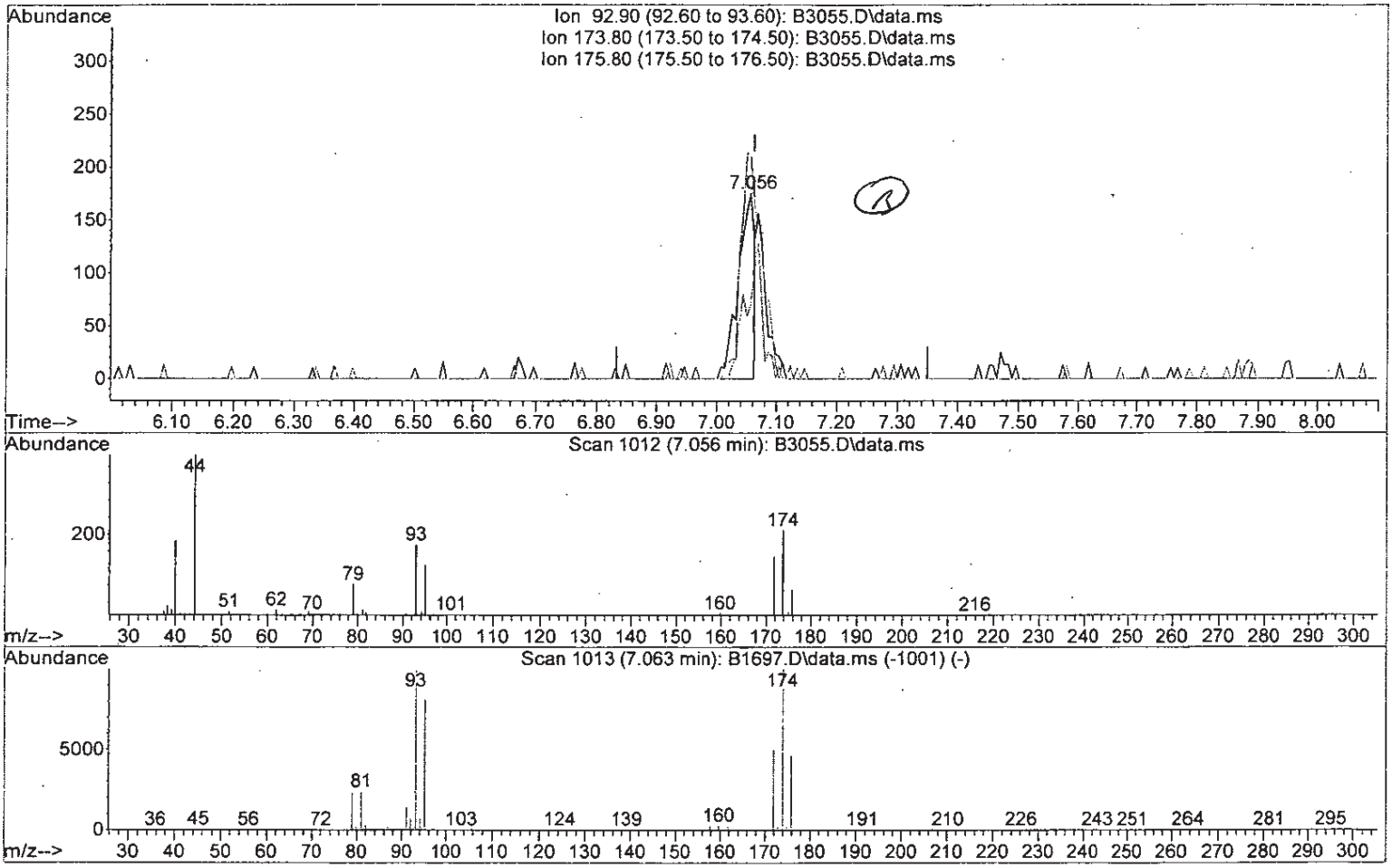
6.812min (-0.006) 0.51 ug/L m

response 896

Ion	Exp%	Act%
63.00	100	100
65.00	30.10	20.85
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(56) Dibromomethane

7.056min (-0.006) 0.24 ug/L

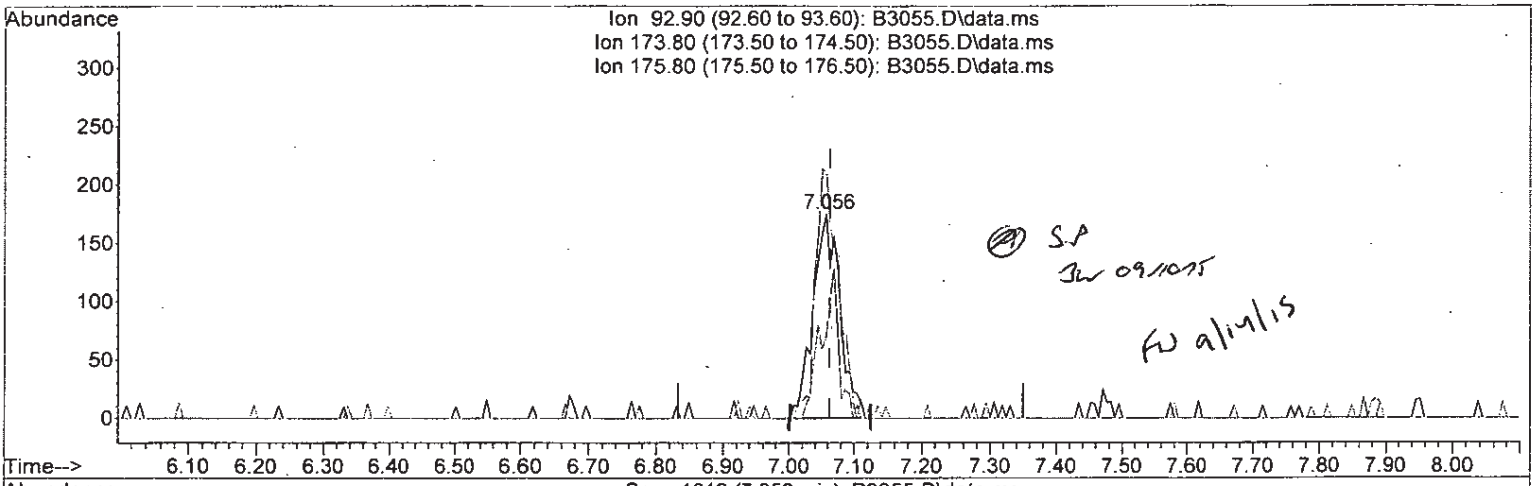
response 321

Ion	Exp%	Act%
92.90	100	100
173.80	105.20	119.43
175.80	49.90	40.00
0.00	0.00	0.00

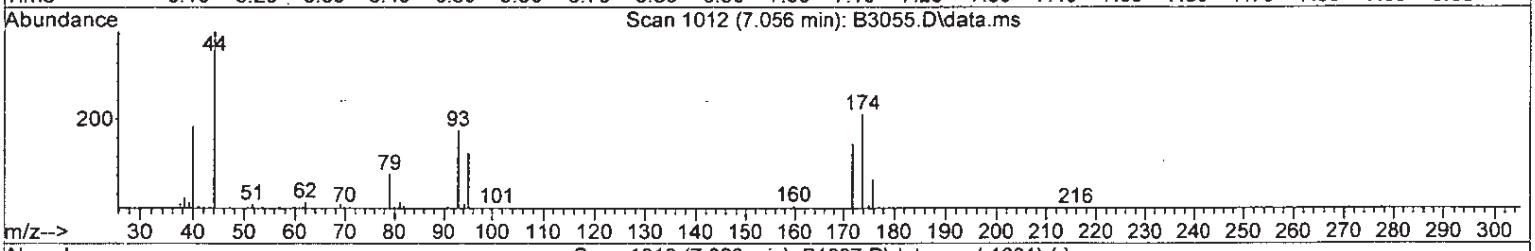
Quantitation Report (Qedit)

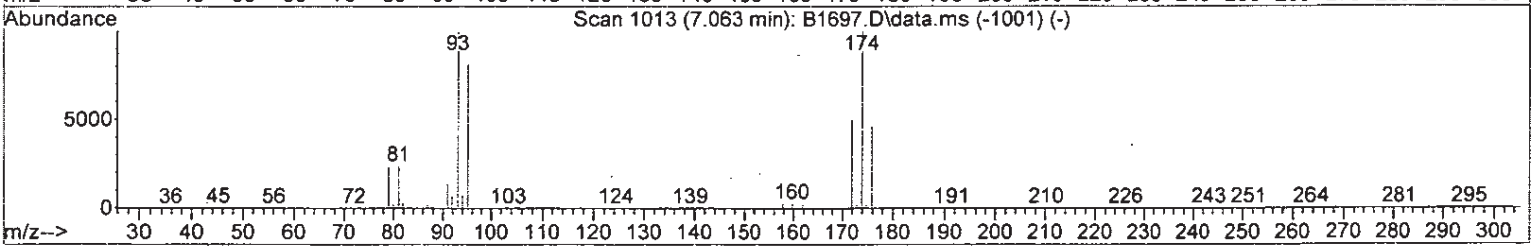
Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



SP 9/10/15
FW 9/14/15





TIC: B3055.D\data.ms

(56) Dibromomethane

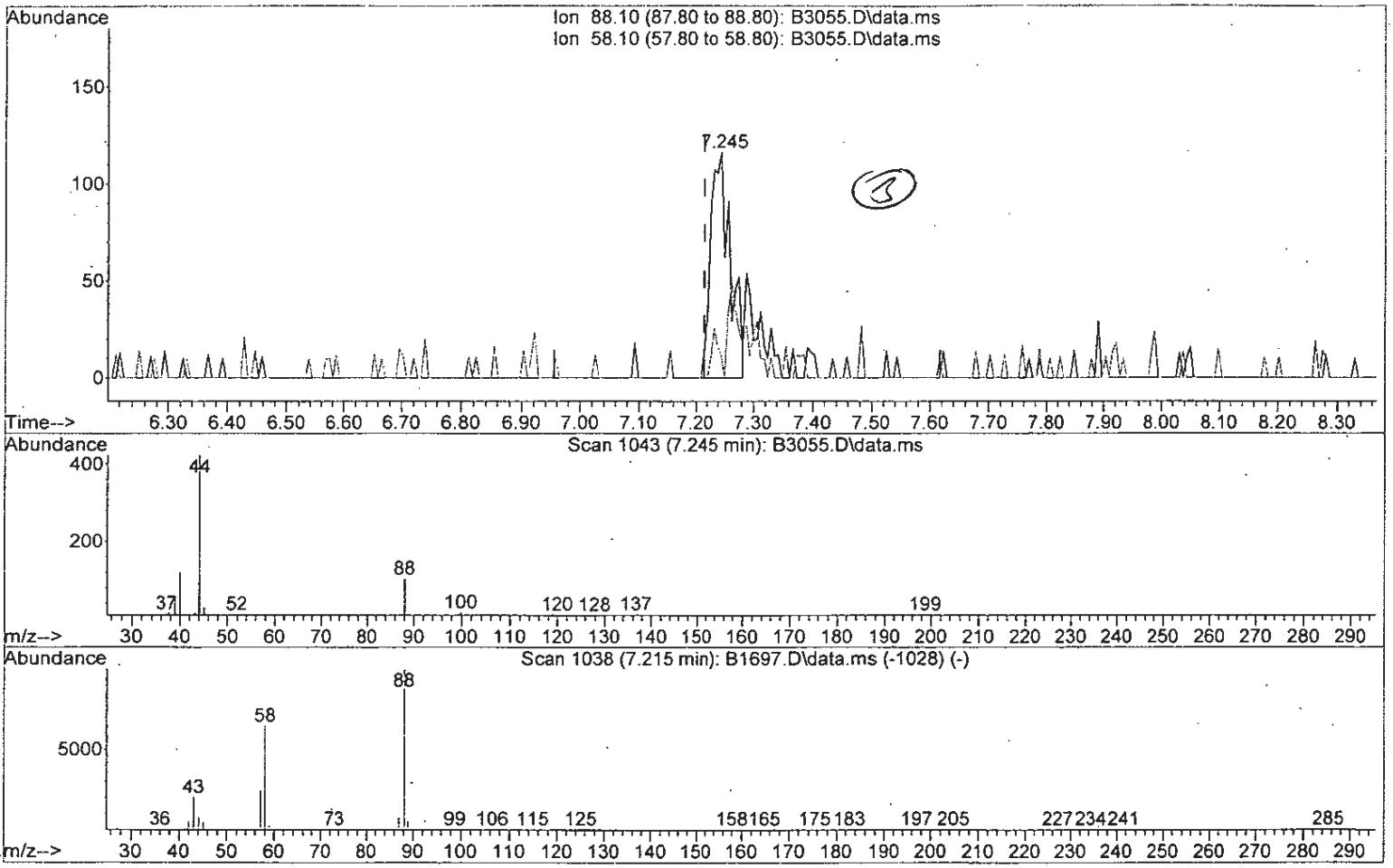
7.056min (-0.006) 0.38 ug/L m

response 503

Ion	Exp%	Act%
92.90	100	100
173.80	105.20	119.43
175.80	49.90	40.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(57) 1,4-Dioxane

7.245min (+0.030) 7.38 ug/L

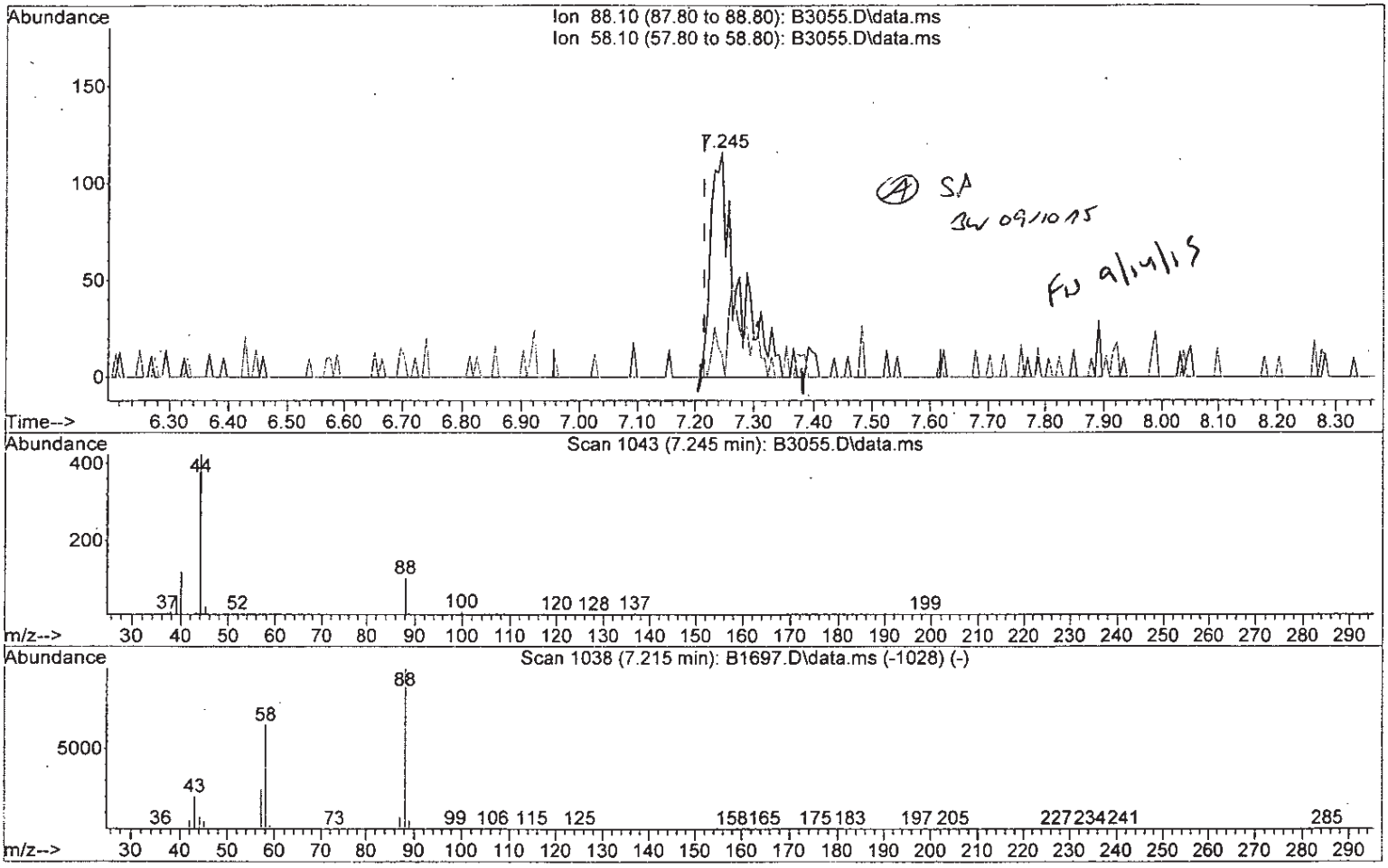
response 277

Ion	Exp%	Act%
88.10	100	100
58.10	59.60	10.34#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qual)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(57) 1,4-Dioxane

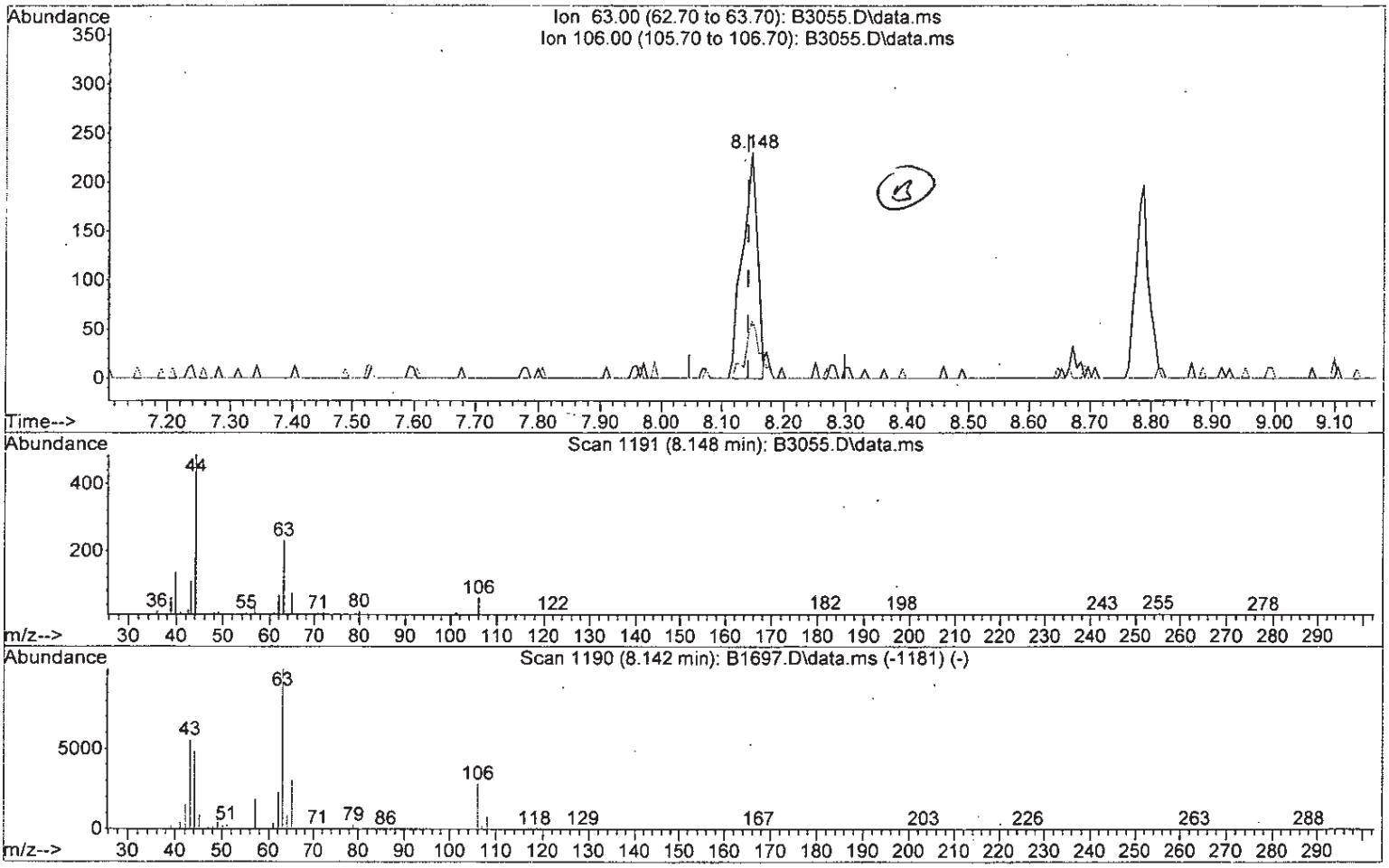
7.245min (+0.030) 9.91 ug/L m

response 372

Ion	Exp%	Act%
88.10	100	100
58.10	59.60	11.65#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(61) 2-Chloroethylvinyl Ether

8.148min (+0.006) 0.31 ug/L

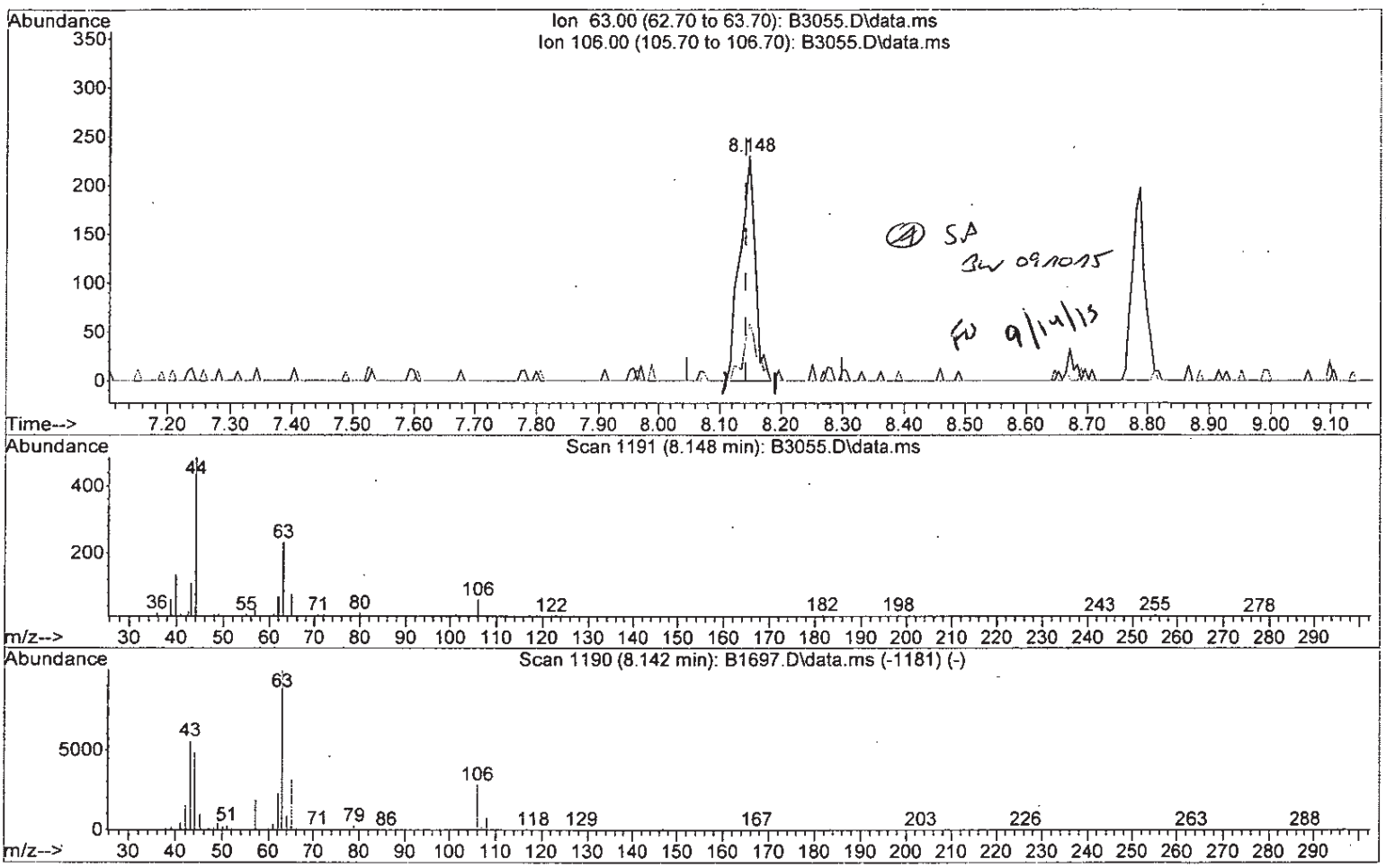
response 387

Ion	Exp%	Act%
63.00	100	100
106.00	25.30	25.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(61) 2-Chloroethylvinyl Ether

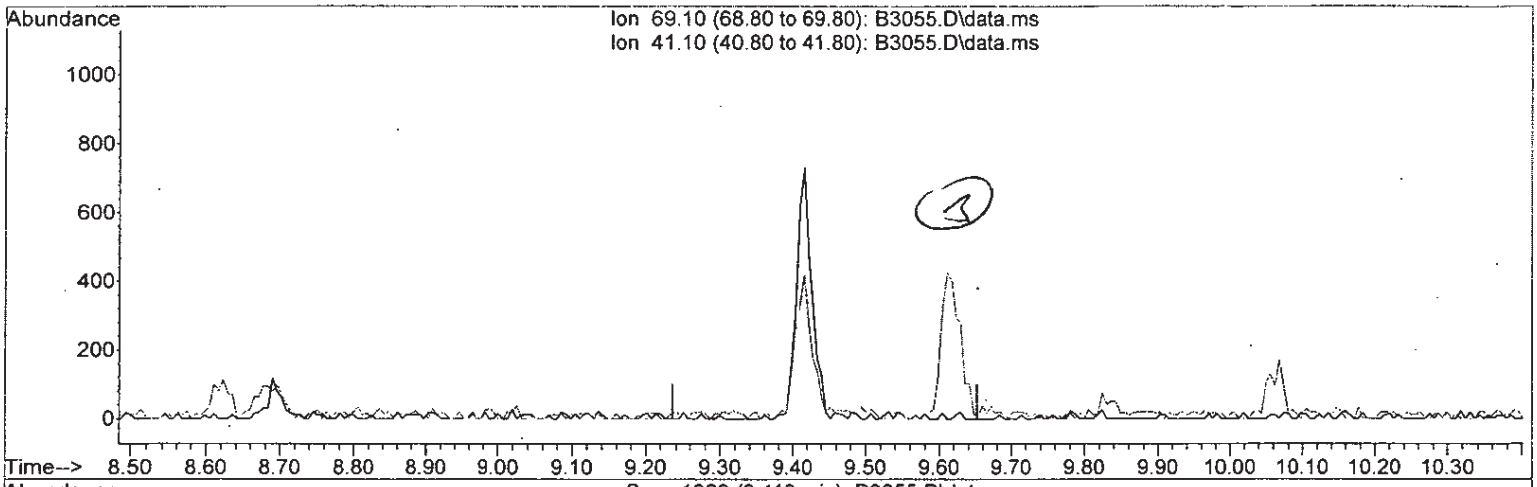
8.148min (+0.006) 0.32 ug/L m

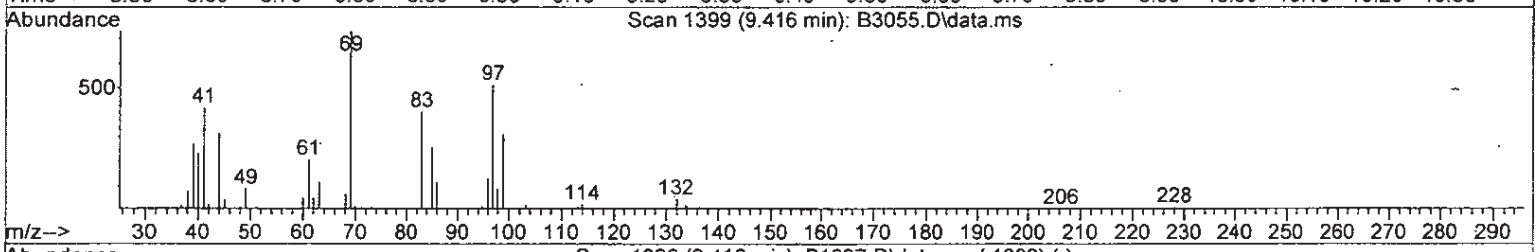
response 400

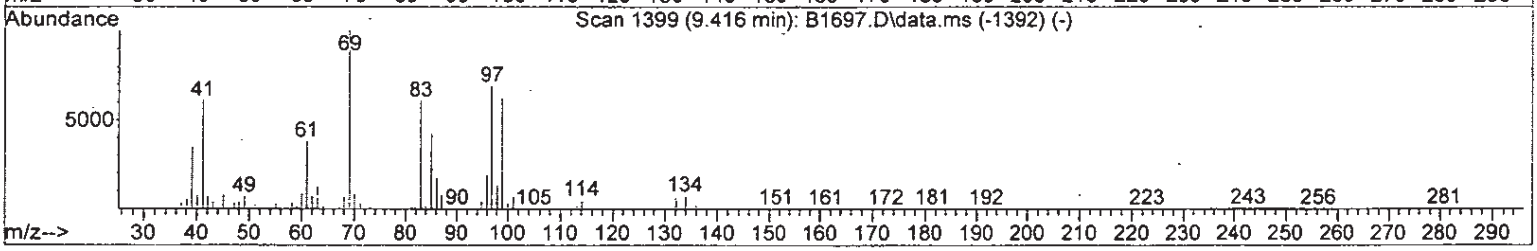
Ion	Exp%	Act%
63.00	100	100
106.00	25.30	25.65
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration







TIC: B3055.D\data.ms

(67) Ethyl Methacrylate

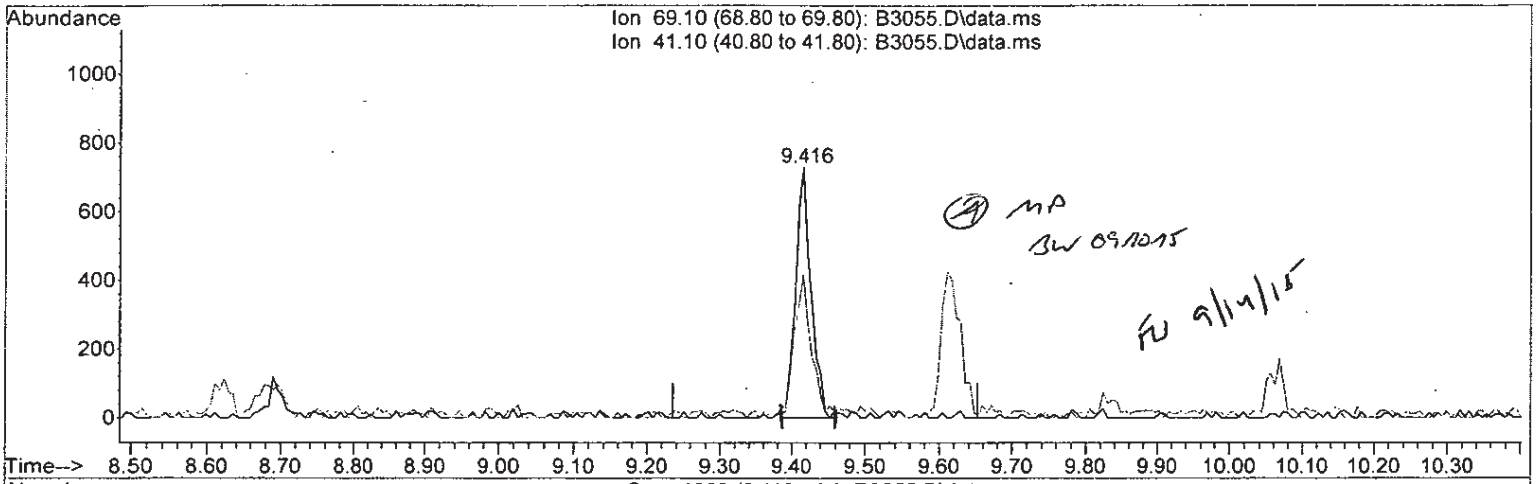
9.416min (-9.416) 0.00 ug/L

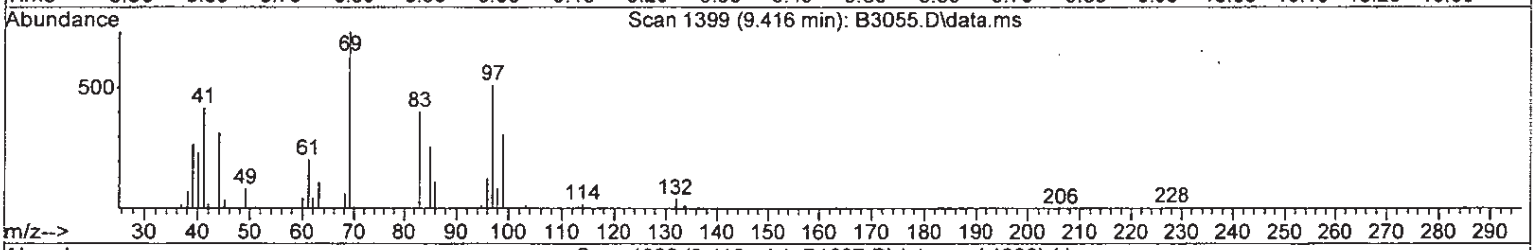
response 0

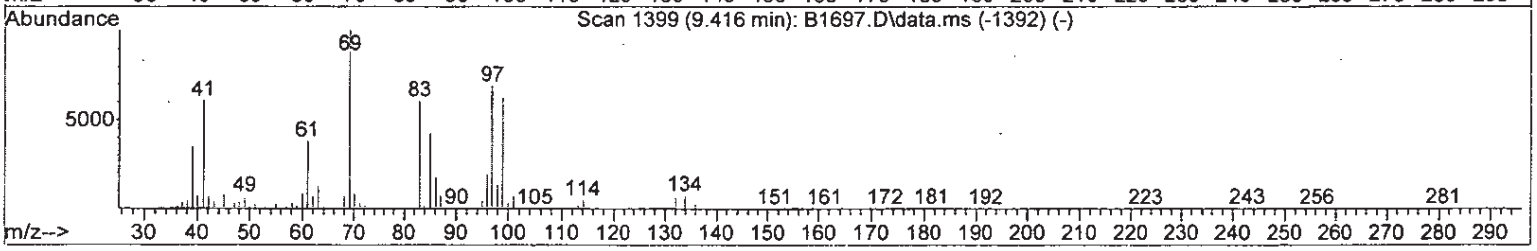
Ion	Exp%	Act%
69.10	100	0.00
41.10	57.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration







TIC: B3055.D\data.ms

(67) Ethyl Methacrylate

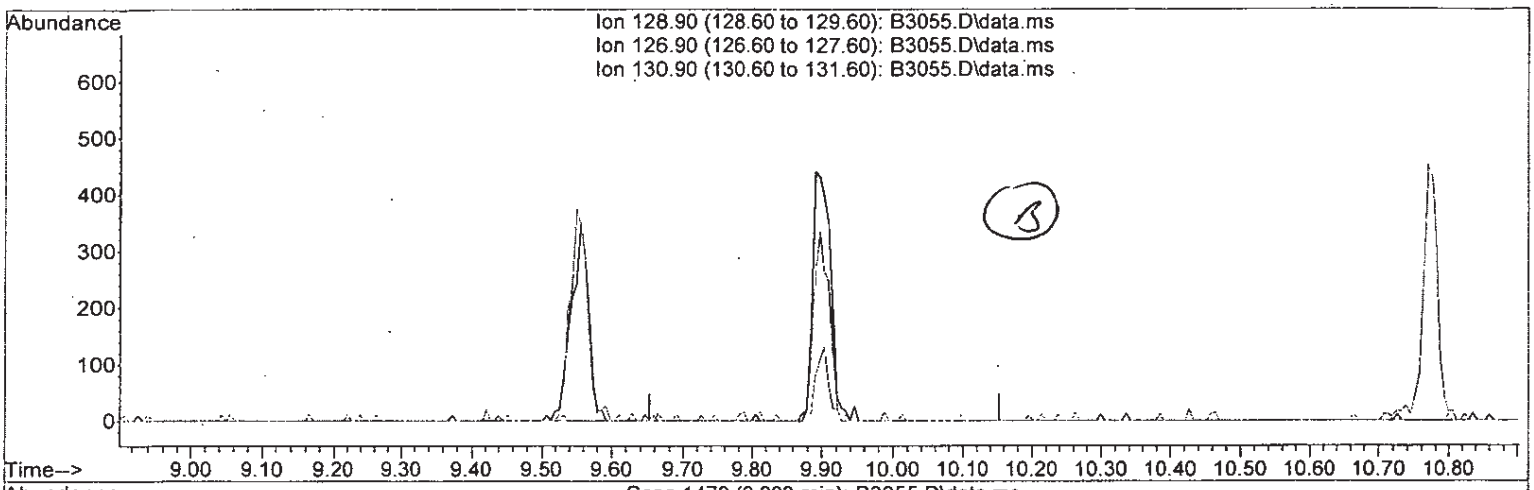
9.416min (-0.000) 0.43 ug/L m

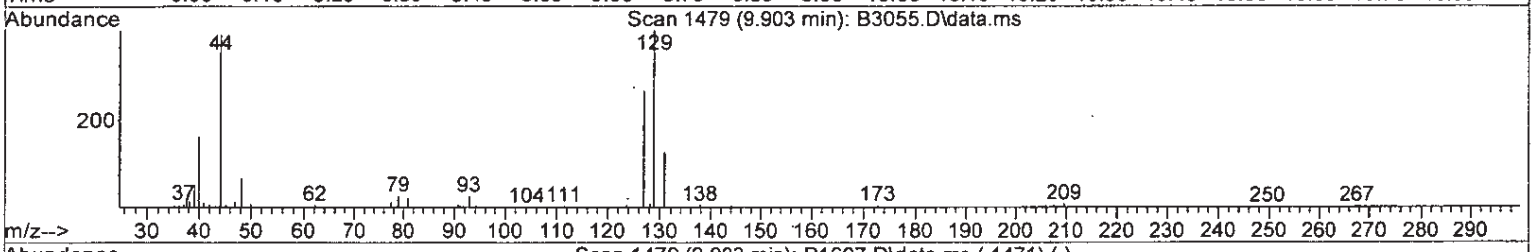
response 1081

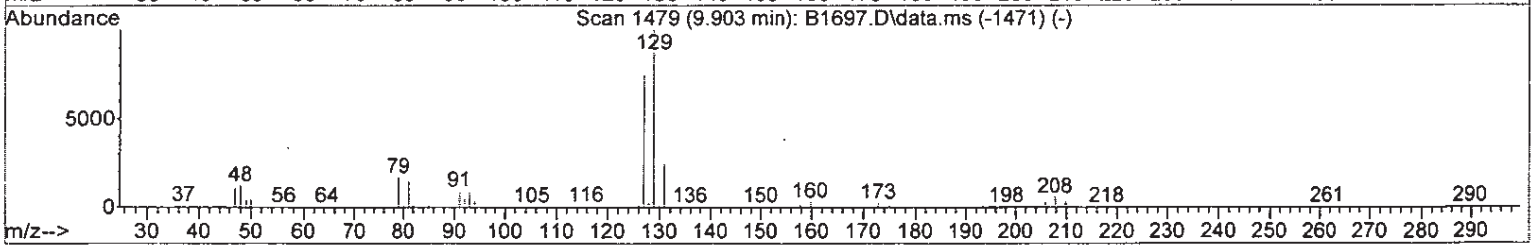
Ion	Exp%	Act%
69.10	100	100
41.10	57.00	57.50
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration







TIC: B3055.D\data.ms

(74) Dibromochloromethane (P)

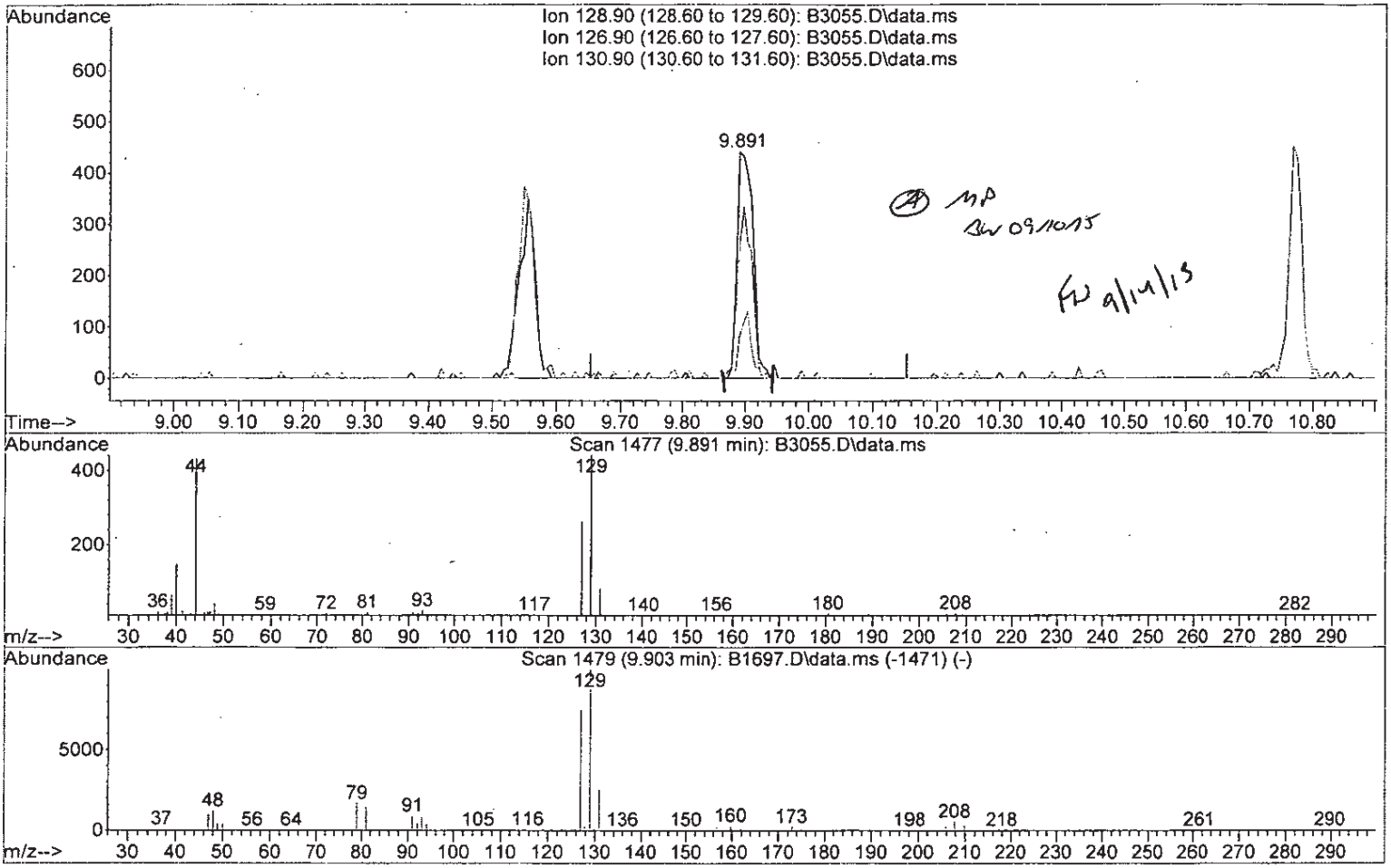
9.903min (-9.903) 0.00 ug/L

response 0

Ion	Exp%	Act%
128.90	100	0.00
126.90	75.70	0.00#
130.90	23.90	0.00#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(74) Dibromochloromethane (P)

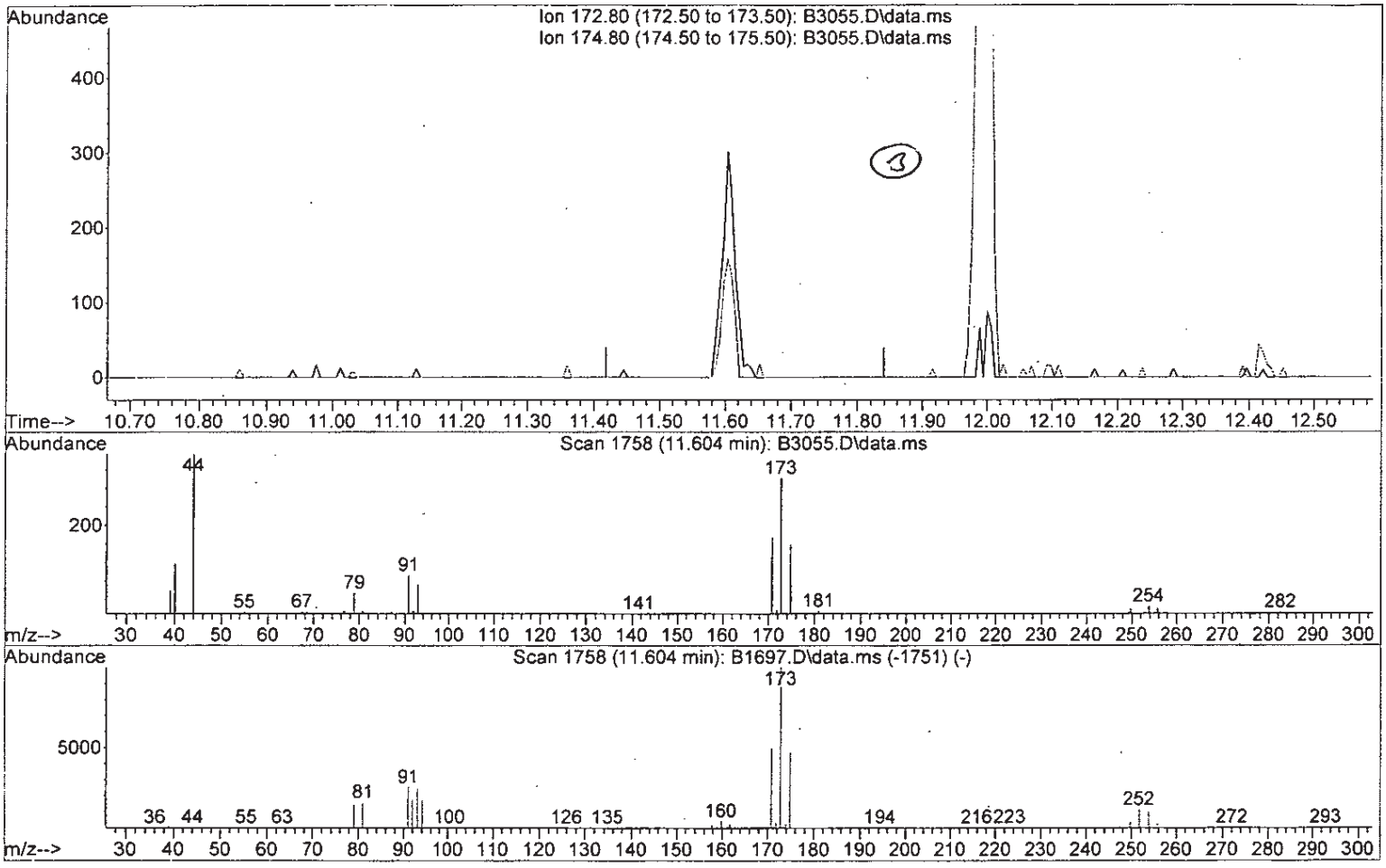
9.891min (-0.012) 0.44 ug/L m

response 766

Ion	Exp%	Act%
128.90	100	100
126.90	75.70	59.41
130.90	23.90	18.37
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(85) Bromoform (P)

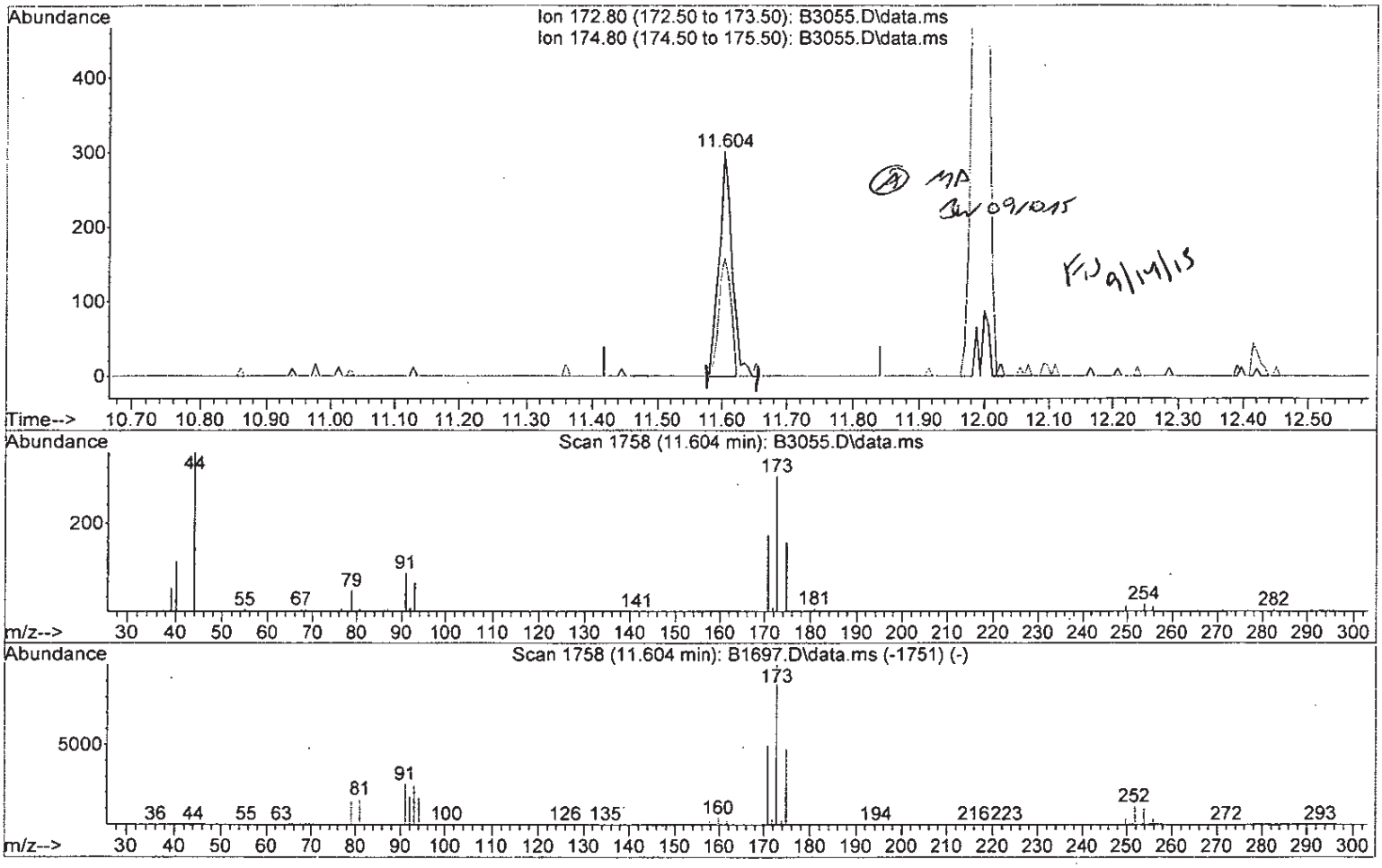
11.604min (-11.604) 0.00 ug/L

response 0

Ion	Exp%	Act%
172.80	100	0.00
174.80	47.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(85) Bromoform (P)

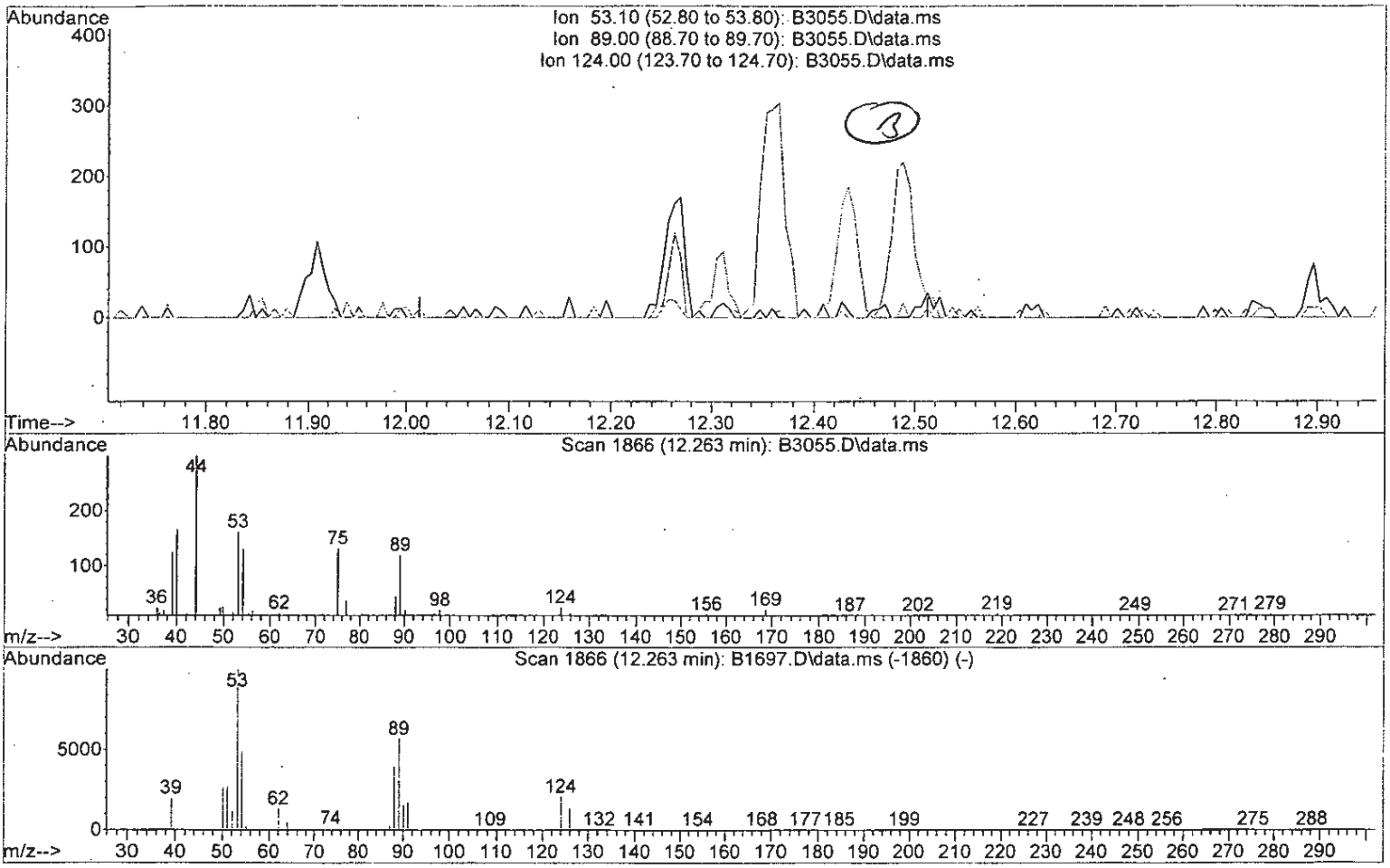
11.604min (-0.000) 0.35 ug/L m

response 418

Ion	Exp%	Act%
172.80	100	100
174.80	47.90	52.49
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(89) trans-1,4-Dichloro-2-Butene

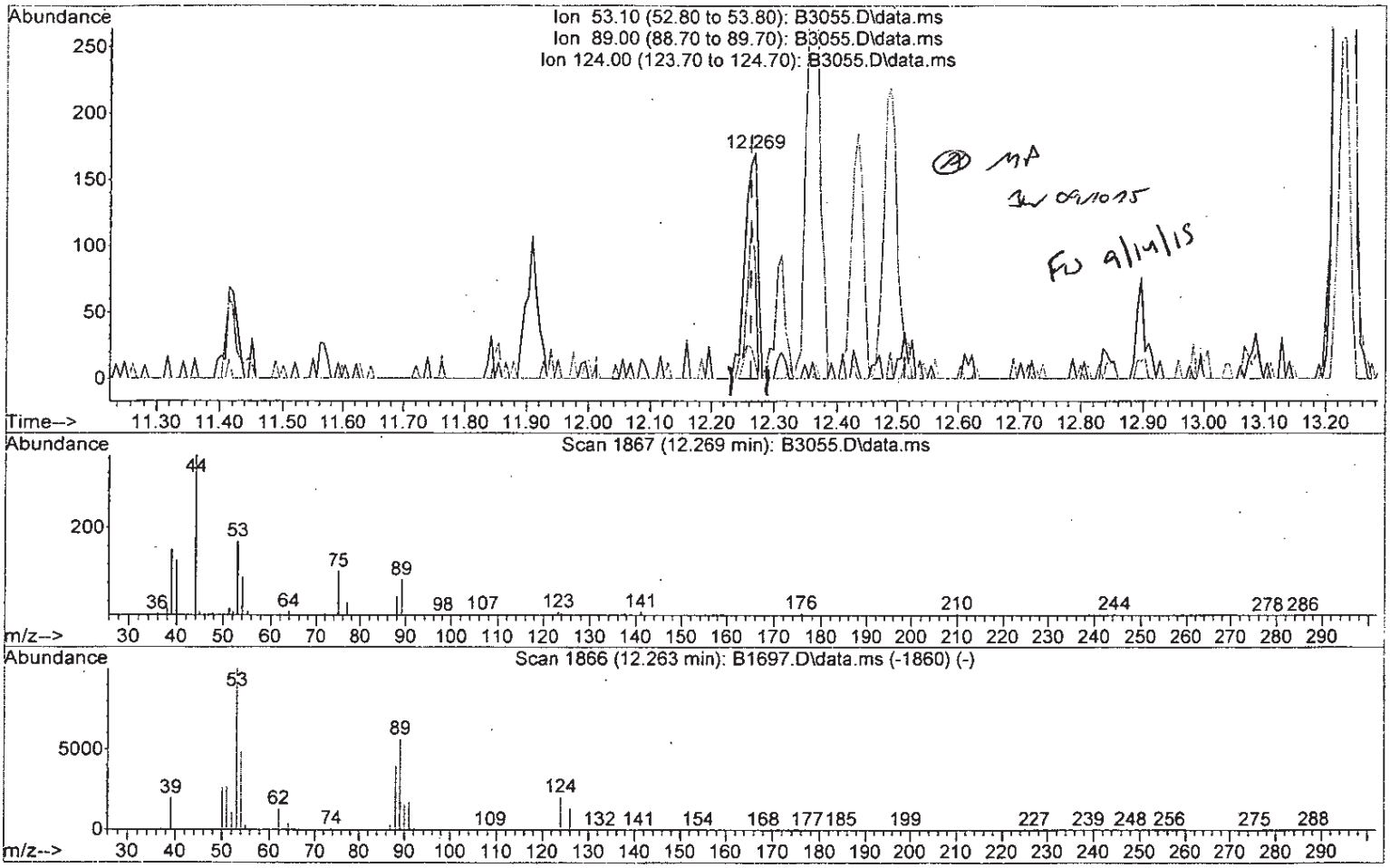
12.263min (-12.263) 0.00 ug/L

response 0

Ion	Exp%	Act%
53.10	100	0.00
89.00	50.70	0.00#
124.00	18.80	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:43:33 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3055.D\data.ms

(89) trans-1,4-Dichloro-2-Butene

12.269min (+0.006) 0.39 ug/L m

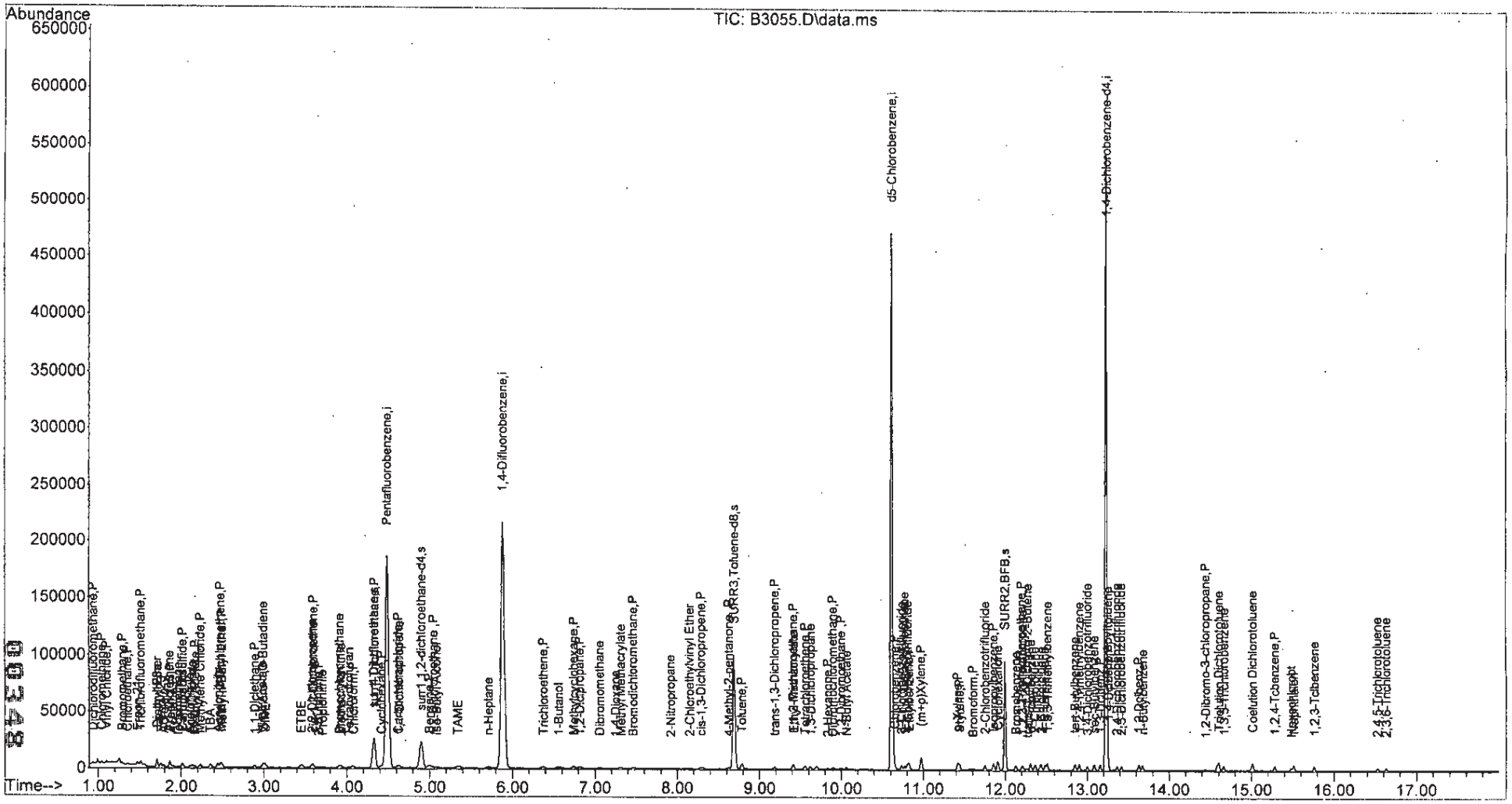
response 238

Ion	Exp%	Act%
53.10	100	100
89.00	50.70	51.18
124.00	18.80	7.65
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3055.D
Acq On : 10 Sep 2015 9:09 am
Operator : B Wojtasiewicz
Sample : 0.5 ppb Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 10 13:50:30 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:55:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

BW 09/10/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	176805	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	265610	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.617	117	233666	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	115600	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.331	113	17995	10.90	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 21.80%#			
47) surr1,1,2-dichloroetha...	4.898	65	21120	11.41	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 22.82%#			
64) SURR3,Toluene-d8	8.690	98	71960	11.49	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 22.98%#			
69) SURR2,BFB	11.994	95	26729	12.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 24.10%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.936	85	1252	0.81	ug/L	96
3) Chloromethane	1.039	50	1952	1.27	ug/L	95
4) Vinyl Chloride	1.100	62	1731	0.92	ug/L	92
5) Bromomethane	1.289	94	1353	0.84	ug/L	96
6) Chloroethane	1.350	64	1242	0.97	ug/L	88
7) Freon 21	1.472	67	3230	0.94	ug/L	95
8) Trichlorofluoromethane	1.515	101	2197	0.88	ug/L	99
9) Diethyl Ether	1.710	59	2011	1.44	ug/L	90
10) Freon 123a	1.710	67	1937	0.99	ug/L	97
11) Freon 123	1.752	83	2379	1.02	ug/L	98
12) Acrolein	1.783	56	2029	4.69	ug/L	95
13) 1,1-Diclethene	1.856	96	1631	1.13	ug/L	95
14) Freon 113	1.868	101	1566	1.12	ug/L	94
15) Acetone	1.899	43	1547	1.72	ug/L	87
16) 2-Propanol	2.015	45	2902	20.94	ug/L	87
17) Iodomethane	1.966	142	986	0.64	ug/L	92
18) Carbon Disulfide	2.015	76	4191	0.96	ug/L	96
19) Acetonitrile	2.106	40	956	6.29	ug/L	90
20) Allyl Chloride	2.136	76	814	0.94	ug/L #	80
21) Methyl Acetate	2.161	43	1856	1.20	ug/L	92
22) Methylene Chloride	2.228	84	1940	1.07	ug/L	95
23) TBA	2.350	59	4907	21.30	ug/L	94
24) Acrylonitrile	2.441	53	4315	4.87	ug/L	92
25) Methyl-t-Butyl Ether	2.490	73	5153	1.07	ug/L	99
26) trans-1,2-Dichloroethene	2.478	96	1690	0.97	ug/L	94
27) 1,1-Diclethane	2.886	63	2938	1.03	ug/L	98
28) Vinyl Acetate	2.984	86	329m	0.80	ug/L	
29) DIPE	3.008	45	5052	1.06	ug/L	96
30) 2-Chloro-1,3-Butadiene	2.990	53	2718	1.01	ug/L	81
31) ETBE	3.459	59	5400	1.22	ug/L	95
32) 2,2-Dichloropropane	3.581	77	2282	1.22	ug/L	90
33) cis-1,2-Dichloroethene	3.594	96	1923	0.95	ug/L	94
34) 2-Butanone	3.648	43	1200	1.06	ug/L	79
35) Propionitrile	3.703	54	1748	4.76	ug/L	85

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:55:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	3.923	130	1343	1.06	ug/L		89
37) Methacrylonitrile	3.929	67	1060	1.11	ug/L		90
38) Tetrahydrofuran	4.014	42	536	0.85	ug/L	#	60
39) Chloroform	4.081	83	3060	0.98	ug/L		97
40) 1,1,1-Trichloroethane	4.325	97	2375	1.02	ug/L		86
41) TAME	5.355	73	5038	1.16	ug/L		95
43) Cyclohexane	4.423	41	1409	1.21	ug/L		90
45) Carbontetrachloride	4.624	121	343m	0.64	ug/L		
46) 1,1-Dichloropropene	4.630	75	2214	1.06	ug/L		93
48) Benzene	4.996	78	7370	1.10	ug/L		94
49) 1,2-Dichloroethane	5.044	62	2421	1.05	ug/L		97
50) Iso-Butyl Alcohol	5.093	43	1997	20.93	ug/L		77
51) n-Heptane	5.709	43	1440	1.34	ug/L		94
52) 1-Butanol	6.550	56	2833m	45.66	ug/L		
53) Trichloroethene	6.373	130	1712	0.97	ug/L		92
54) Methylcyclohexane	6.745	55	1723	1.21	ug/L	#	76
55) 1,2-Diclpropane	6.812	63	1804m	1.10	ug/L		
56) Dibromomethane	7.062	93	1108m	0.89	ug/L		
57) 1,4-Dioxane	7.239	88	590m	16.77	ug/L		
58) Methyl Methacrylate	7.318	69	1302m	0.93	ug/L		
59) Bromodichloromethane	7.471	83	1976	0.93	ug/L		93
60) 2-Nitropropane	7.922	41	585m	1.46	ug/L		
61) 2-Chloroethylvinyl Ether	8.141	63	968	0.83	ug/L		91
62) cis-1,3-Dichloropropene	8.294	75	2262	0.97	ug/L		96
63) 4-Methyl-2-pentanone	8.617	43	1838	0.99	ug/L		90
65) Toluene	8.788	91	7862	1.07	ug/L		93
66) trans-1,3-Dichloropropene	9.178	75	1876	0.89	ug/L		94
67) Ethyl Methacrylate	9.416	69	2020m	0.86	ug/L		
68) 1,1,2-Trichloroethane	9.409	97	1559	0.87	ug/L		83
71) Tetrachloroethene	9.550	164	1452	1.19	ug/L	#	85
72) 2-Hexanone	9.830	43	1146	0.81	ug/L		84
73) 1,3-Dichloropropane	9.617	76	2851	0.97	ug/L		84
74) Dibromochloromethane	9.897	129	1498m	0.89	ug/L		
75) N-Butyl Acetate	10.056	43	2421	0.94	ug/L		85
76) 1,2-Dibromoethane	9.995	107	1726	0.97	ug/L		94
77) 3-Chlorobenzotrifluoride	10.732	180	2180	1.05	ug/L	#	78
78) Chlorobenzene	10.647	112	4956	1.05	ug/L		94
79) 4-Chlorobenzotrifluoride	10.806	180	2212	1.21	ug/L		96
80) 1,1,1,2-Tetrachloroethane	10.775	131	1467	0.98	ug/L		94
81) Ethylbenzene	10.824	106	2355	1.00	ug/L	#	73
82) (m+p)Xylene	10.970	106	5745	2.04	ug/L		99
83) o-Xylene	11.421	106	2983	1.06	ug/L		92
84) Styrene	11.440	104	4654	0.96	ug/L		97
85) Bromoform	11.604	173	876	0.77	ug/L		78
86) 2-Chlorobenzotrifluoride	11.750	180	2300	1.08	ug/L		85
87) Isopropylbenzene	11.854	105	7095	1.10	ug/L		99
88) Cyclohexanone	11.903	55	6469	20.12	ug/L		98
89) trans-1,4-Dichloro-2-B...	12.263	53	462	0.79	ug/L		92
91) 1,1,2,2-Tetrachloroethane	12.202	83	2392	0.88	ug/L		86
92) Bromobenzene	12.128	156	1927	1.01	ug/L		94
93) 1,2,3-Trichloropropane	12.214	110	677	0.89	ug/L	#	65

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

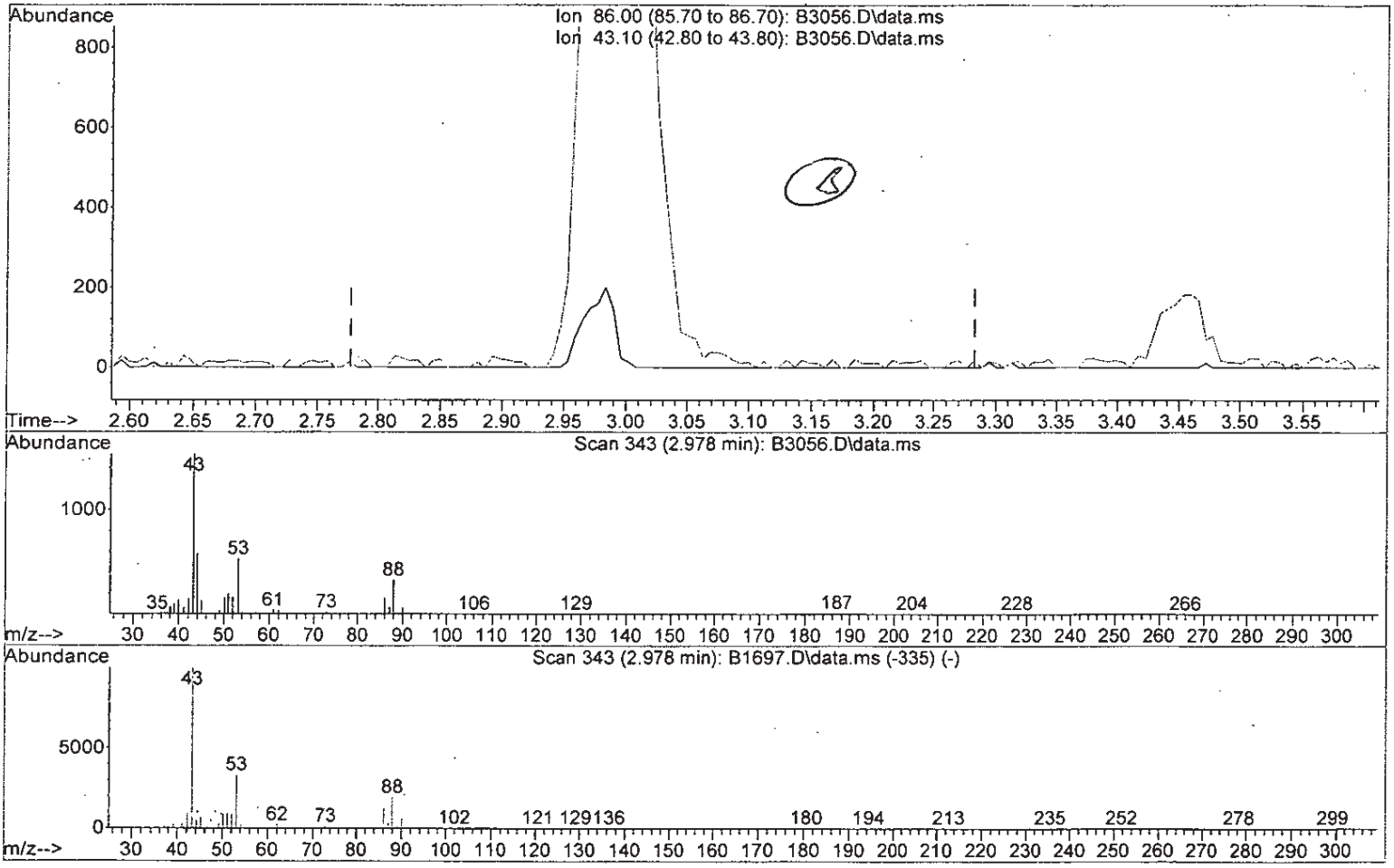
Quant Time: Sep 10 13:55:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	n-Propylbenzene	12.311	91	7970	1.09	ug/L		95
95)	2-Chlorotoluene	12.360	91	5454	1.18	ug/L		97
96)	3-Chlorotoluene	12.433	91	5488	1.12	ug/L		94
97)	4-Chlorotoluene	12.482	91	6152	1.14	ug/L		90
98)	1,3,5-Trimethylbenzene	12.512	105	5586	1.13	ug/L		89
99)	tert-Butylbenzene	12.848	119	4756	1.21	ug/L		95
100)	1,2,4-Trimethylbenzene	12.897	105	5524	1.10	ug/L		100
101)	3,4-Dichlorobenzotrifl...	13.000	214	1682	1.26	ug/L		95
102)	sec-Butylbenzene	13.079	105	6681	1.16	ug/L		96
103)	p-Isopropyltoluene	13.250	119	5330	1.11	ug/L		91
104)	1,3-Dclbenz	13.153	146	3384	1.03	ug/L		98
105)	1,4-Dclbenz	13.256	146	3728	1.11	ug/L		99
106)	2,4-Dichlorobenzotrifl...	13.366	214	1501	1.25	ug/L		94
107)	2,5-Dichlorobenzotrifl...	13.415	214	1760	1.28	ug/L		84
108)	n-Butylbenzene	13.671	91	4421	1.01	ug/L		99
109)	1,2-Dclbenz	13.628	146	3385	1.04	ug/L		88
110)	1,2-Dibromo-3-chloropr...	14.439	157	466	0.90	ug/L		95
111)	Trielution Dichlorotol...	14.604	125	7816	3.44	ug/L		94
112)	1,3,5-Trichlorobenzene	14.658	180	2301	1.23	ug/L		98
113)	Coelution Dichlorotoluene	15.012	125	5931	2.29	ug/L		97
114)	1,2,4-Tcbenzene	15.274	180	2124	1.15	ug/L		85
115)	Hexachlorobt	15.481	225	823	1.28	ug/L	#	77
116)	Naphthalen	15.512	128	6392	0.95	ug/L		98
117)	1,2,3-Tclbenzene	15.756	180	2096	1.15	ug/L		91
118)	2,4,5-Trichlorotoluene	16.530	159	990	0.93	ug/L		92
119)	2,3,6-Trichlorotoluene	16.634	159	1078	1.17	ug/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(28) Vinyl Acetate

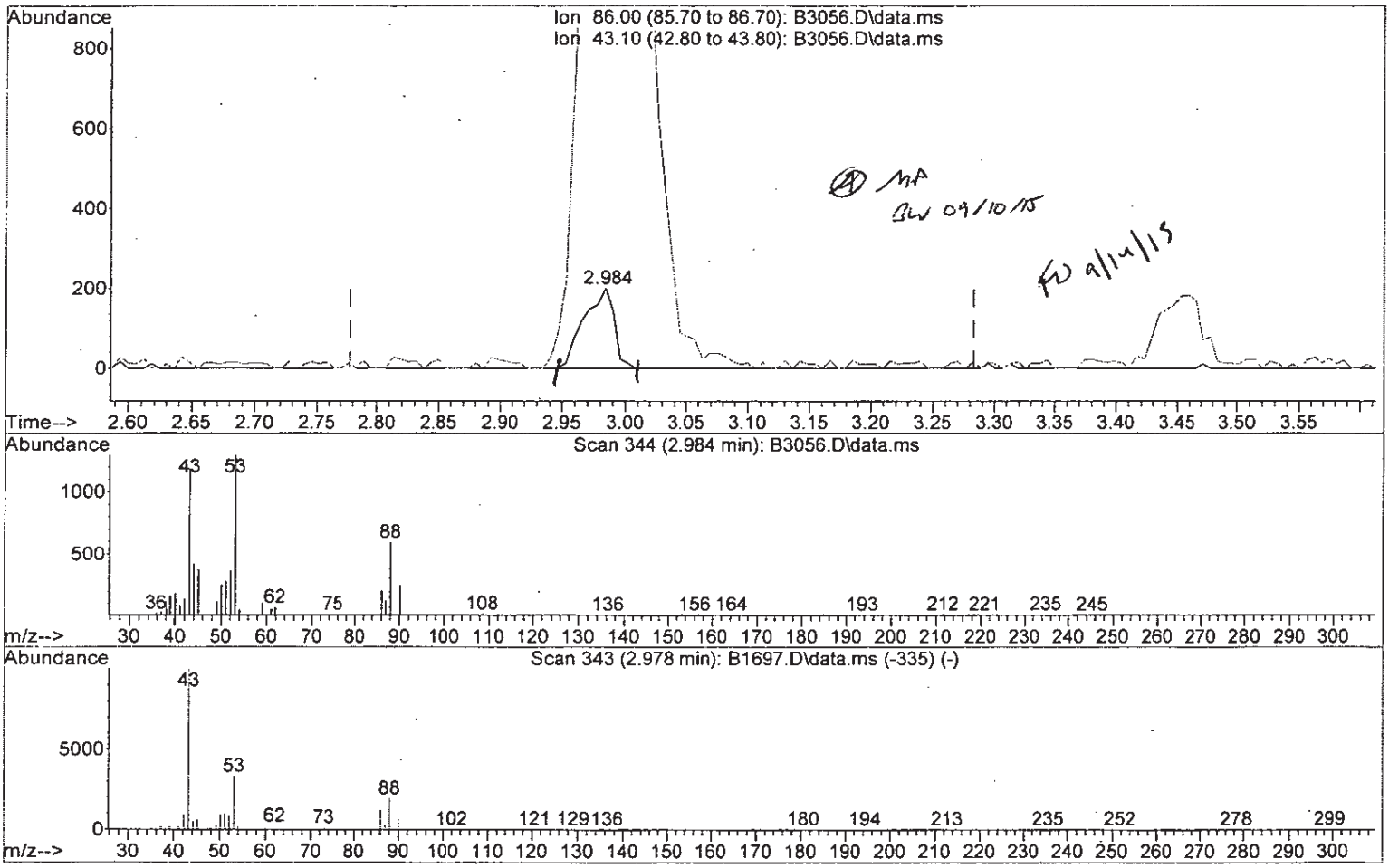
2.977min (-2.977) 0.00 ug/L

response 0

Ion	Exp%	Act%
86.00	100	0.00
43.10	738.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(28) Vinyl Acetate

2.984min (+0.007) 0.80 ug/L m

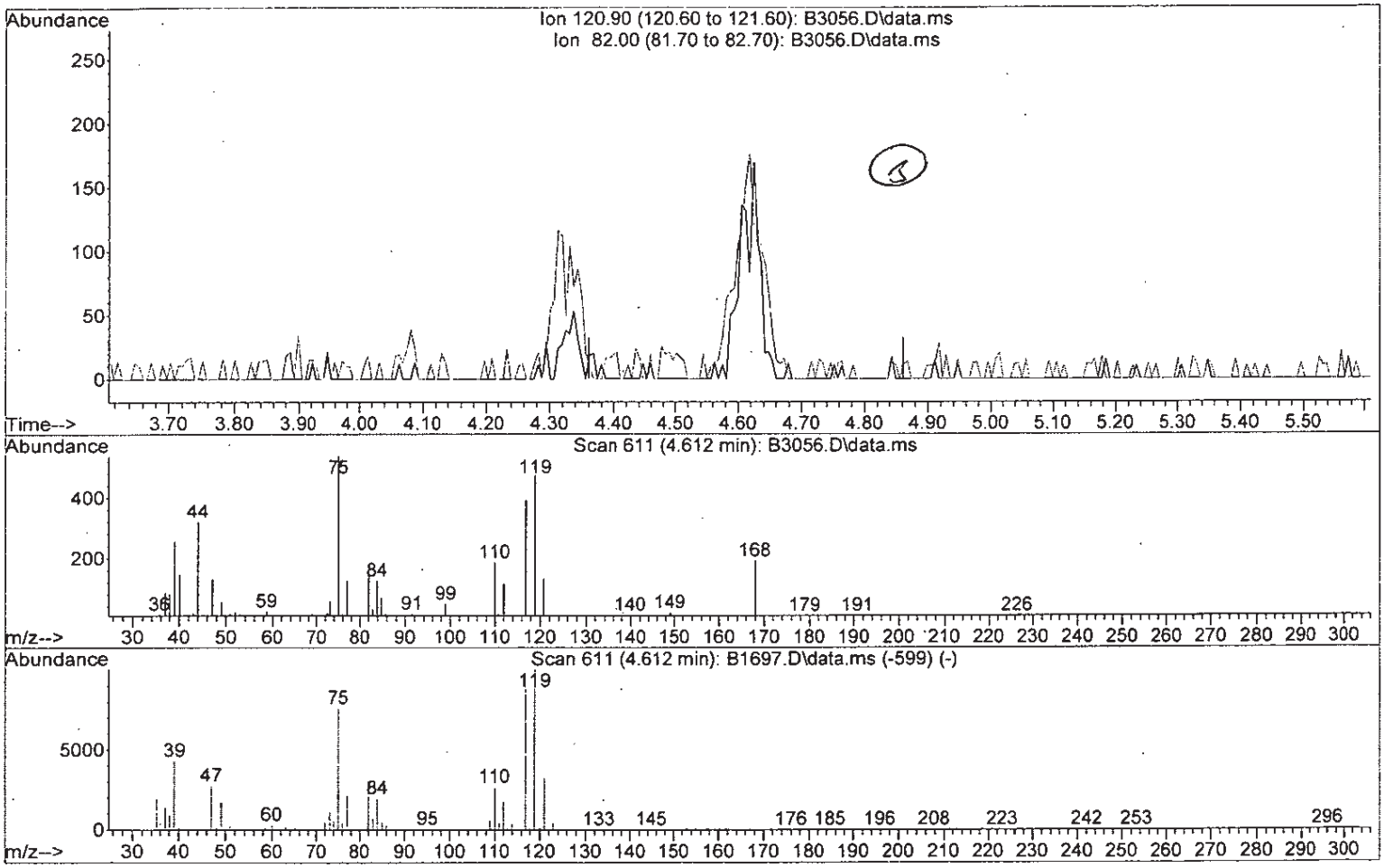
response 329

Ion	Exp%	Act%
86.00	100	100
43.10	738.90	591.50#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Quan)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(45) Carbontetrachloride (P)

4.611min (-4.611) 0.00 ug/L

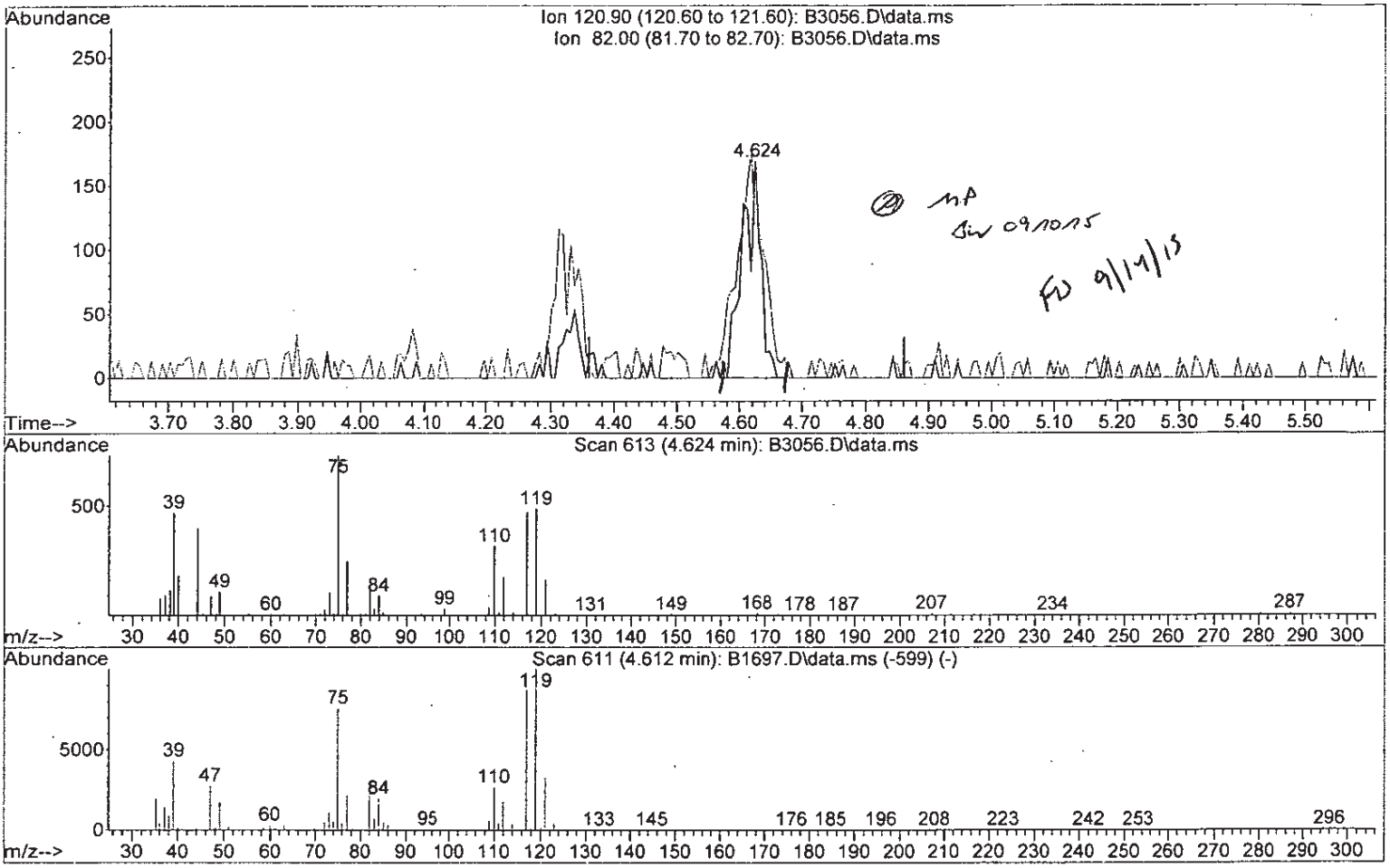
response 0

Ion	Exp%	Act%
120.90	100	0.00
82.00	94.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Quant)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



MP 09/10/15

FD 9/11/15

TIC: B3056.D\data.ms

(45) Carbontetrachloride (P)

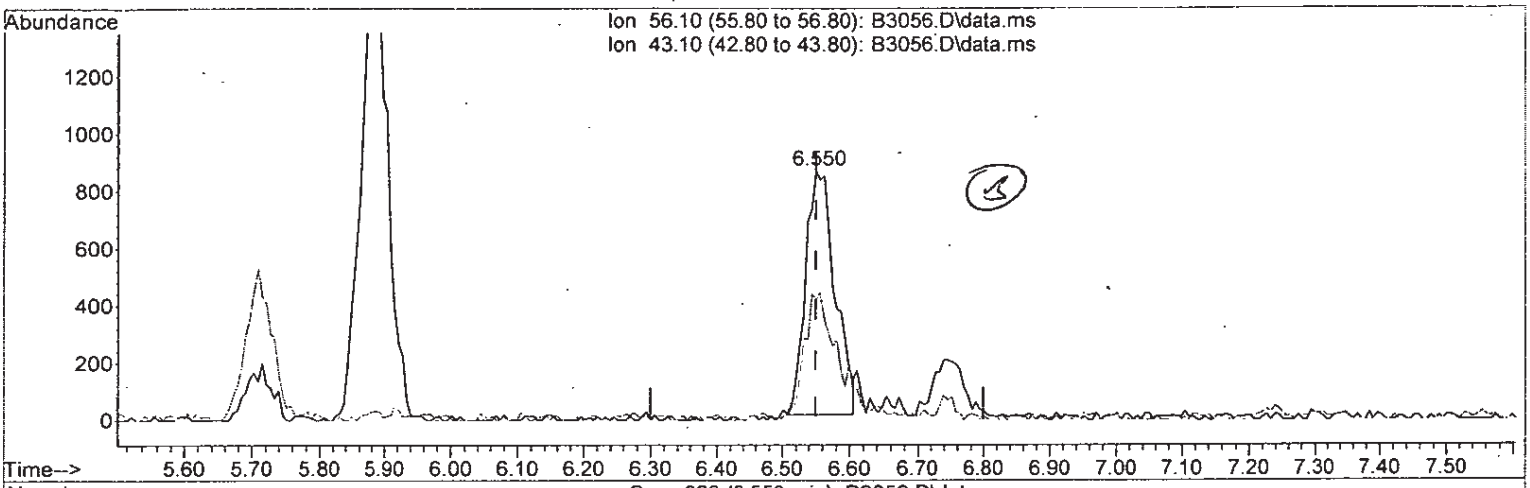
4.624min (+0.013) 0.64 ug/L m

response 343

Ion	Exp%	Act%
120.90	100	100
82.00	94.60	71.01#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(52) 1-Butanol

6.550min (+0.000) 41.22 ug/L

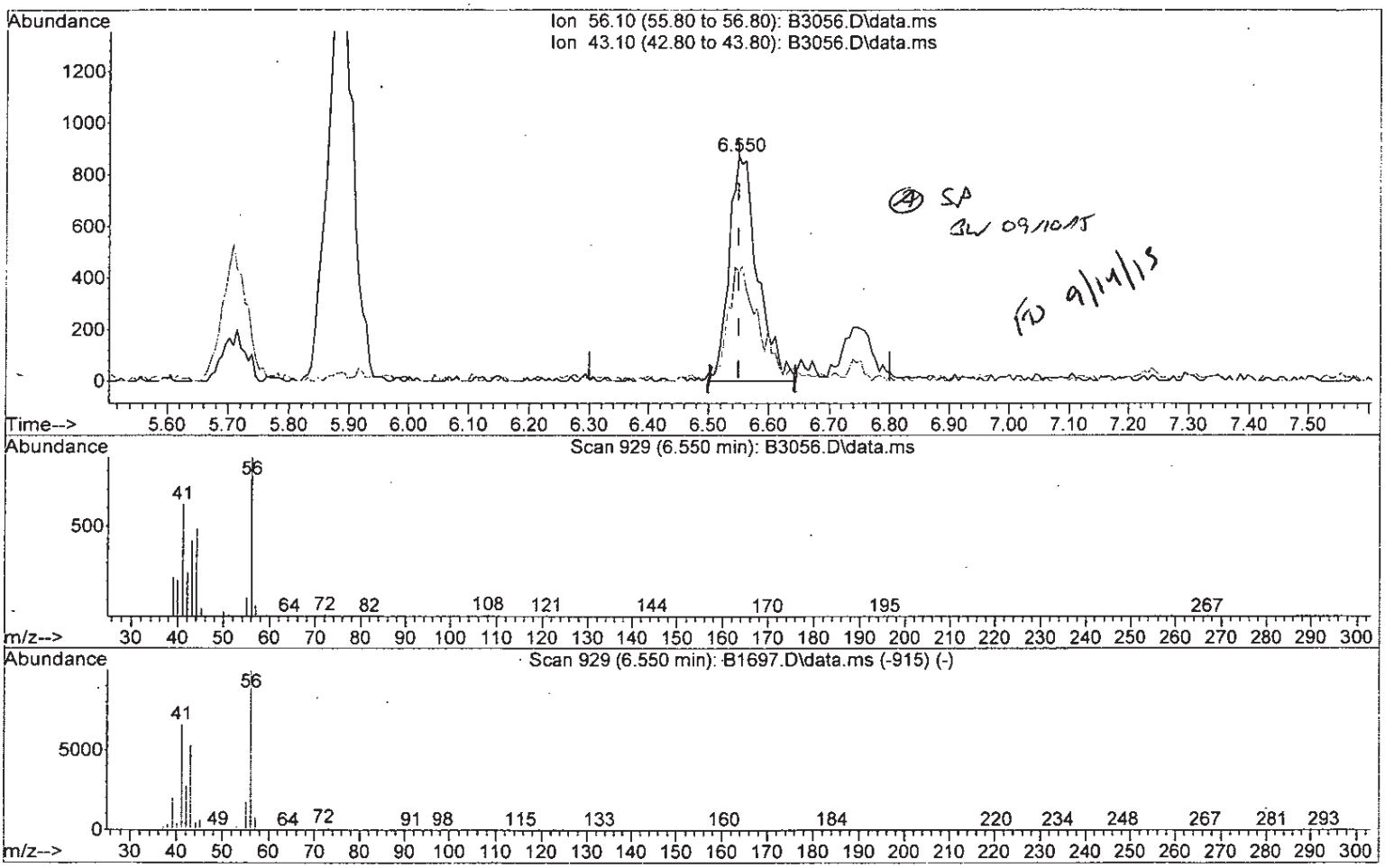
response 2558

Ion	Exp%	Act%
56.10	100	100
43.10	51.10	48.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



A SA 9/10/15
2nd 9/14/15

TIC: B3056.D\data.ms

(52) 1-Butanol

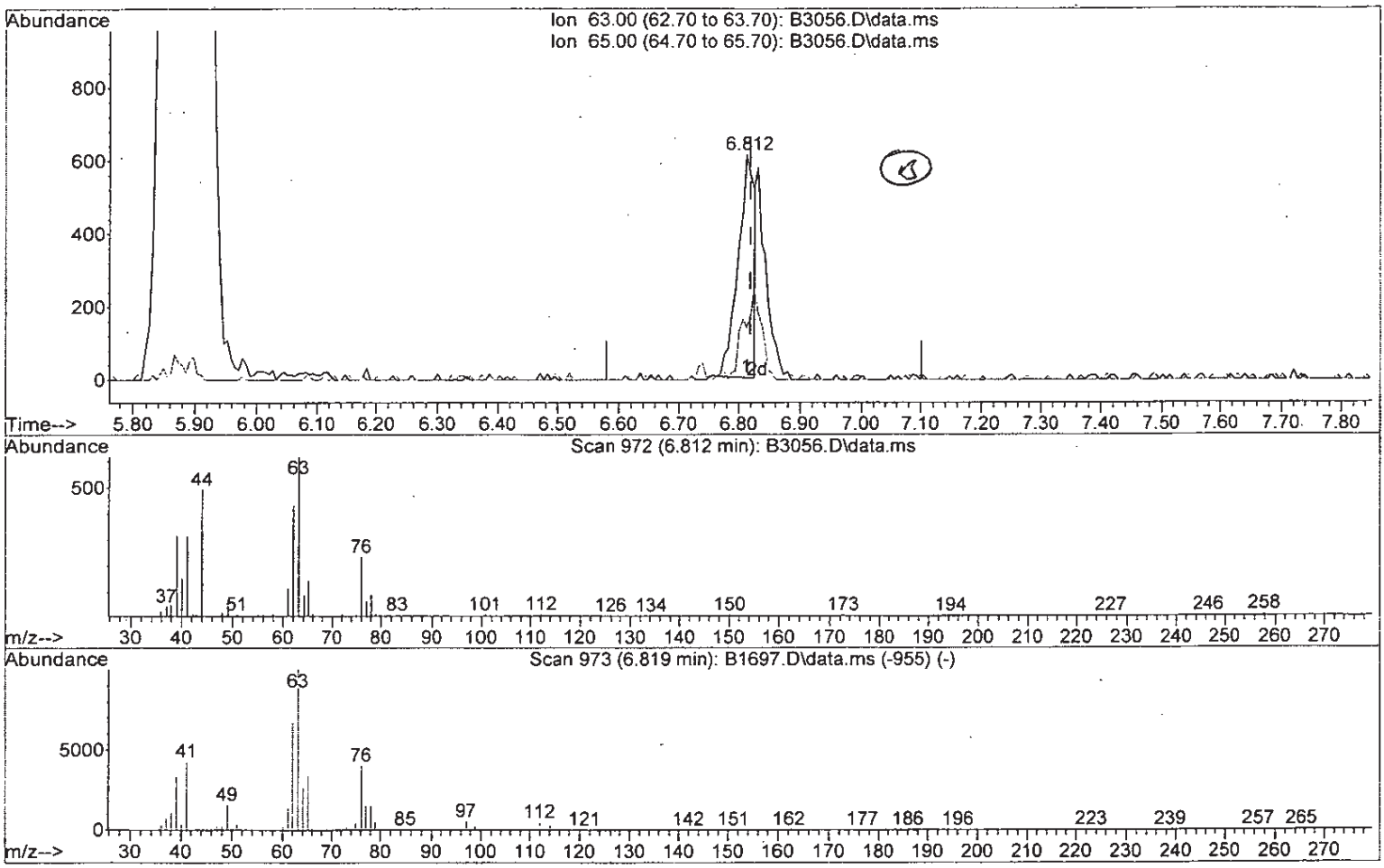
6.550min (+0.000) 45.66 ug/L m

response 2833

Ion	Exp%	Act%
56.10	100	100
43.10	51.10	48.05
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst ': MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(55) 1,2-Diclpropane (P)

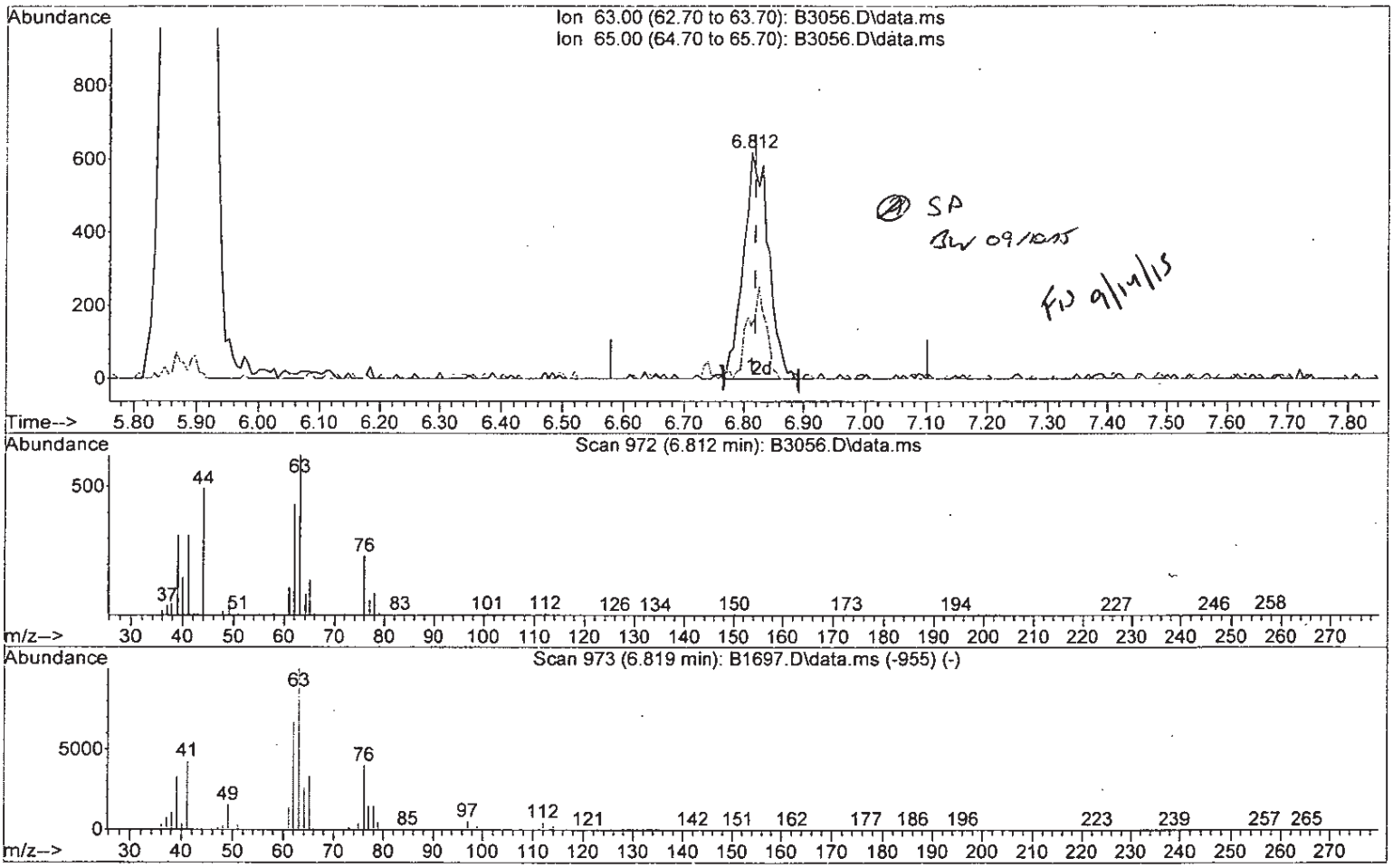
6.812min (-0.006) 0.68 ug/L

response 1118

Ion	Exp%	Act%
63.00	100	100
65.00	30.10	23.18
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(55) 1,2-Dichlpropane (P)

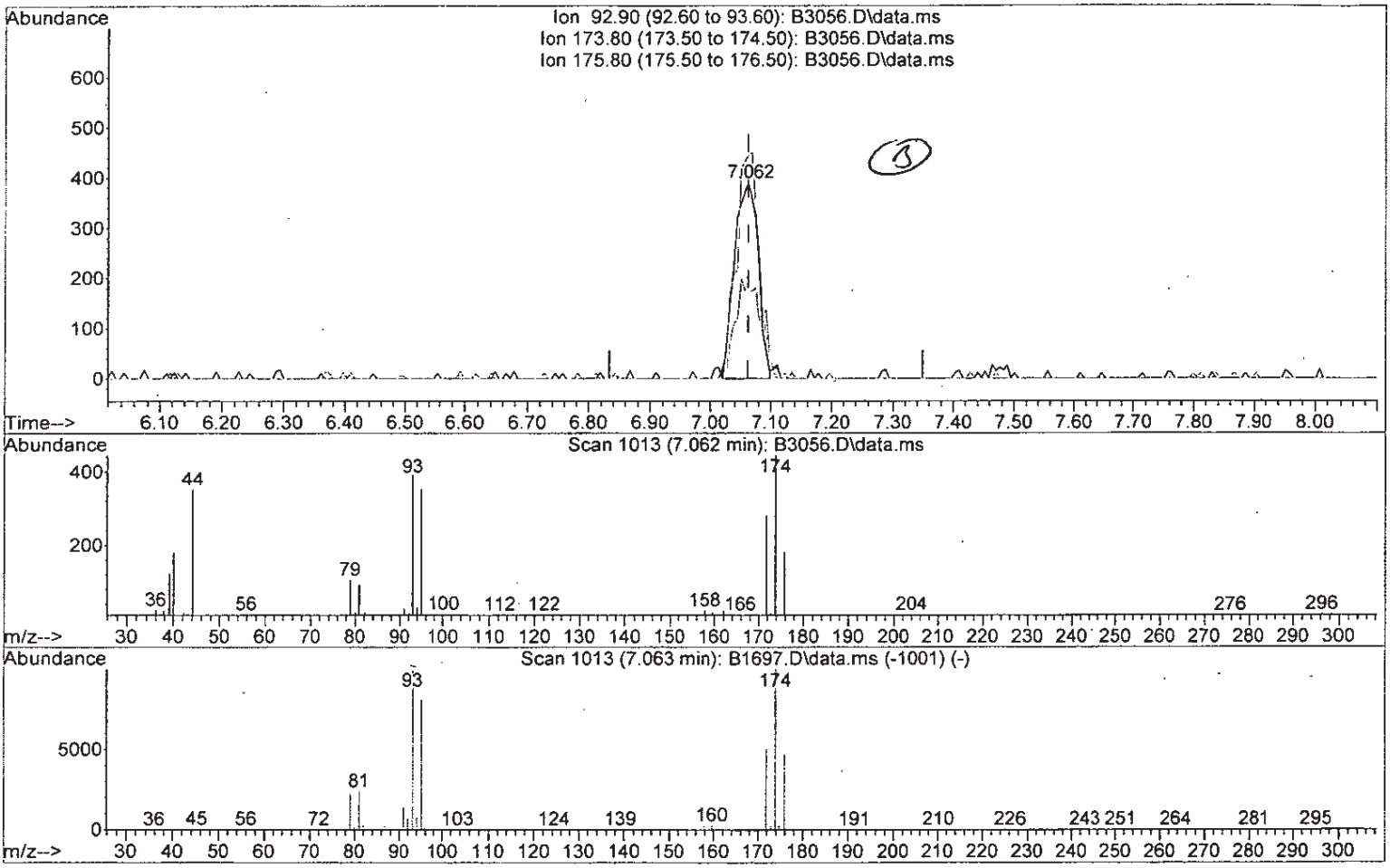
6.812min (-0.006) 1.10 ug/L m

response 1804

Ion	Exp%	Act%
63.00	100	100
65.00	30.10	23.18
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(56) Dibromomethane

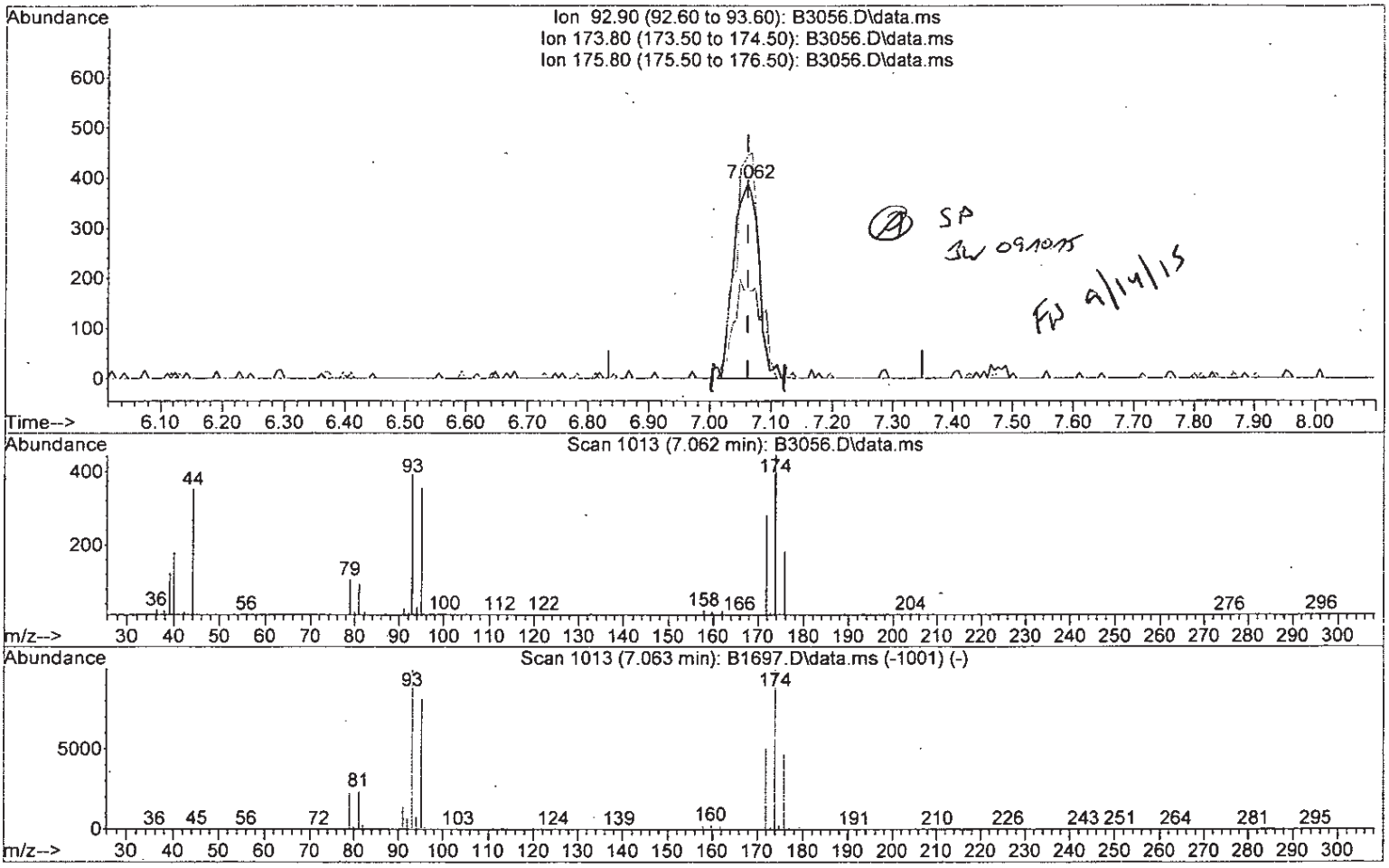
7.062min (-0.000) 0.87 ug/L

response 1075

Ion	Exp%	Act%
92.90	100	100
173.80	105.20	113.85
175.80	49.90	46.41
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



SP 9/10/15
FD 9/14/15

TIC: B3056.D\data.ms

(56) Dibromomethane

7.062min (-0.000) 0.89 ug/L m

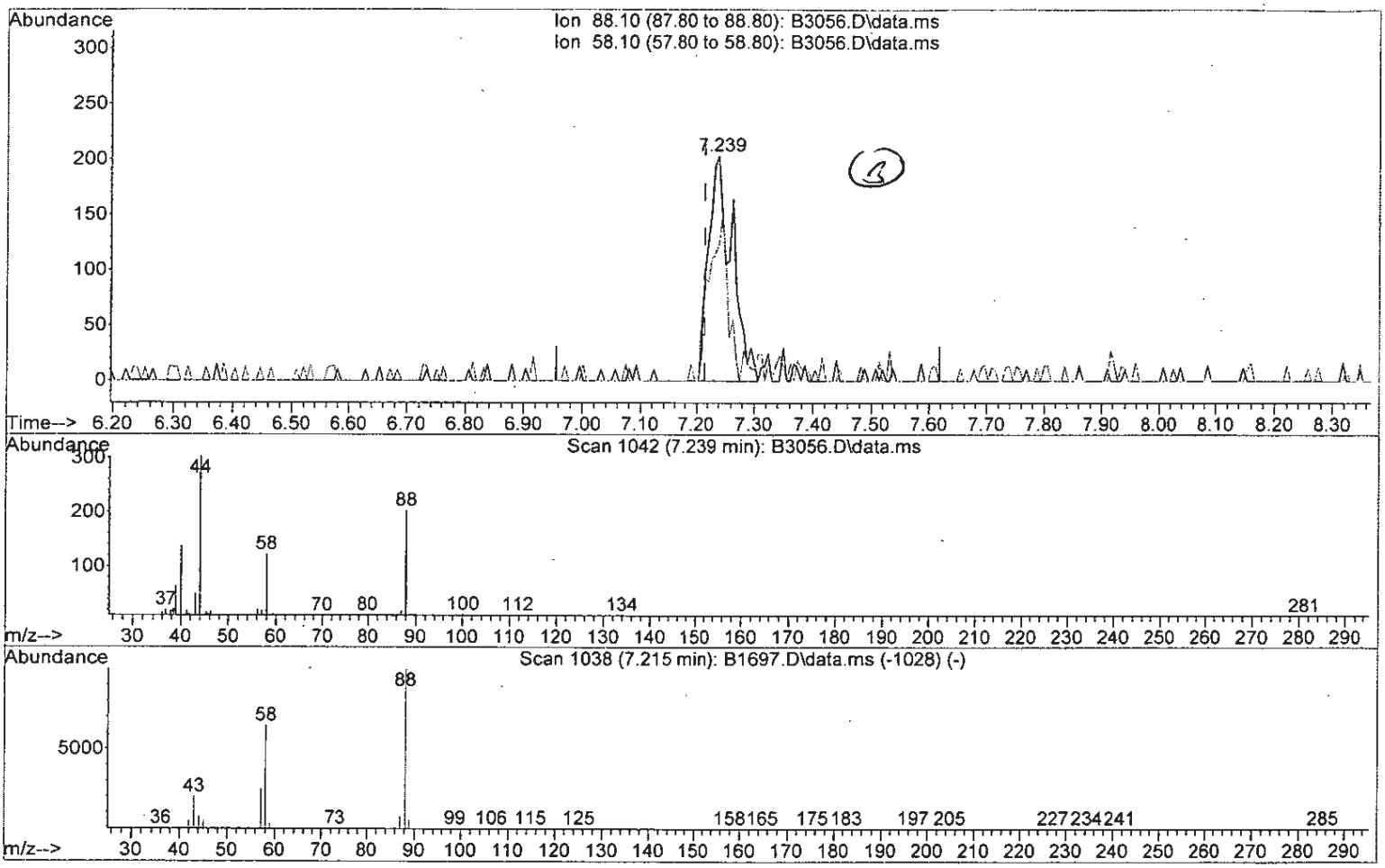
response 1108

Ion	Exp%	Act%
92.90	100	100
173.80	105.20	113.85
175.80	49.90	46.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(57) 1,4-Dioxane

7.239min (+0.024) 16.26 ug/L

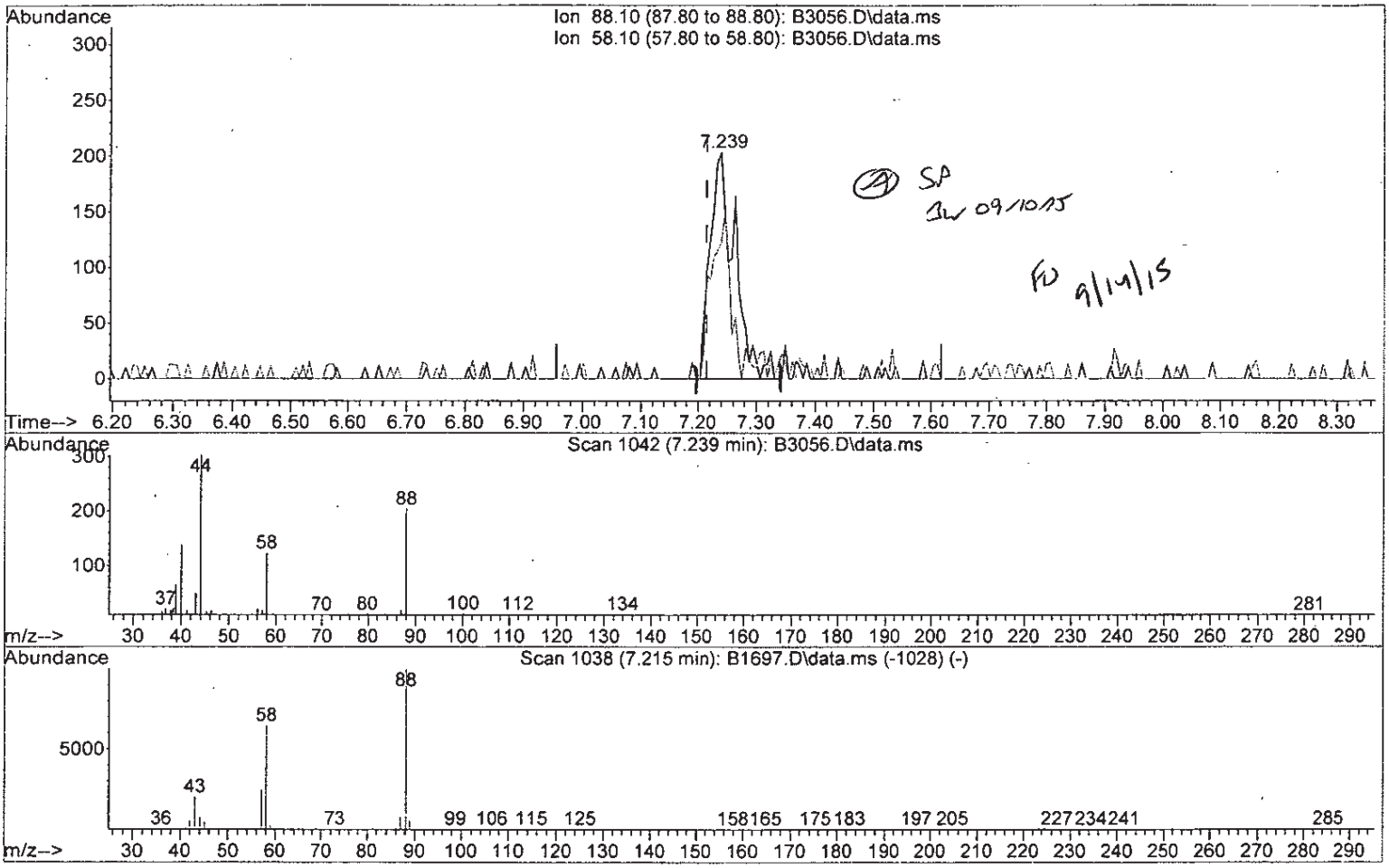
response 572

Ion	Exp%	Act%
88.10	100	100
58.10	59.60	60.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Quan)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



SP 09/10/15

FD 9/14/15

TIC: B3056.D\data.ms

(57) 1,4-Dioxane

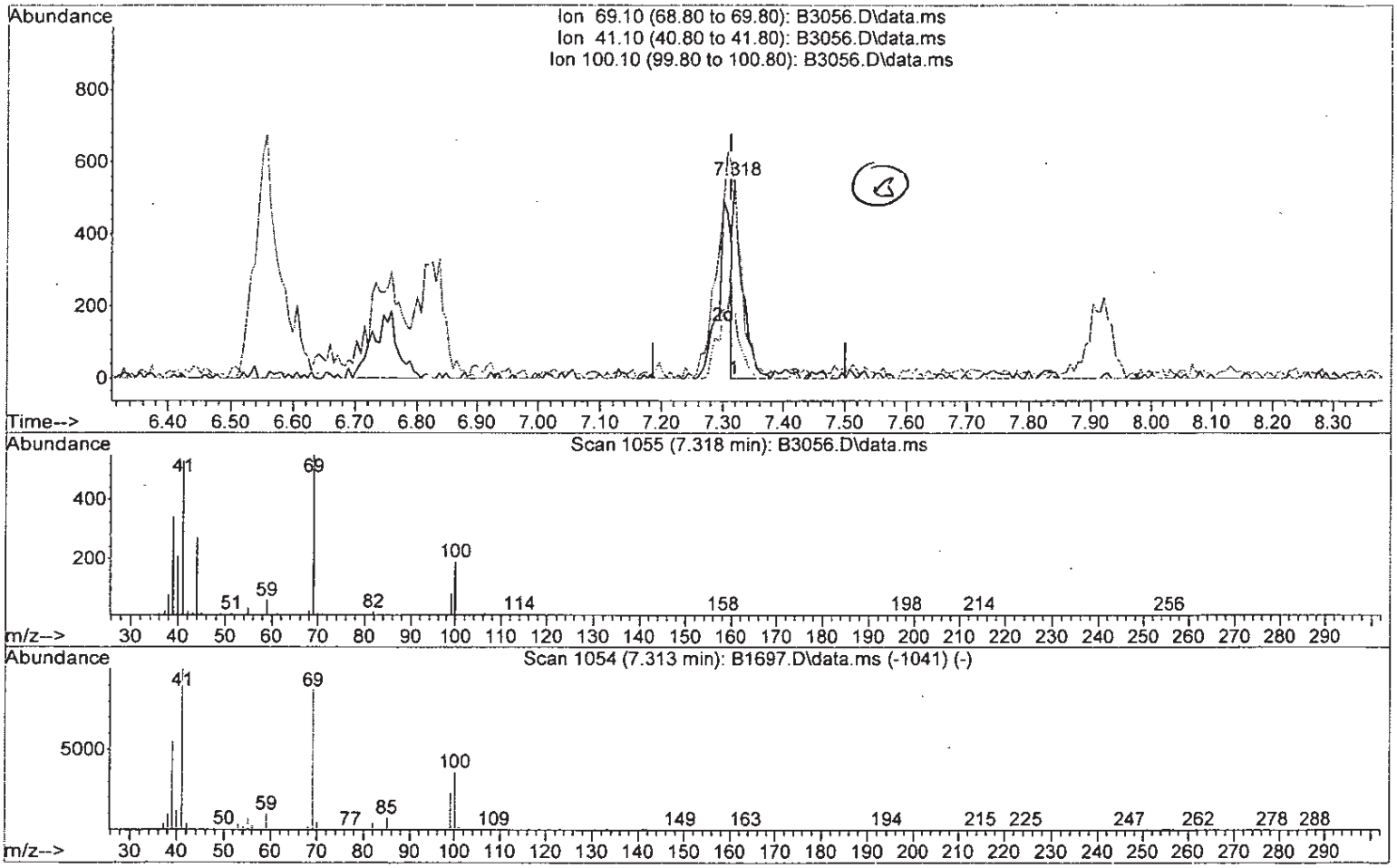
7.239min (+0.024) 16.77 ug/L m

response 590

Ion	Exp%	Act%
88.10	100	100
58.10	59.60	60.10
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(58) Methyl Methacrylate

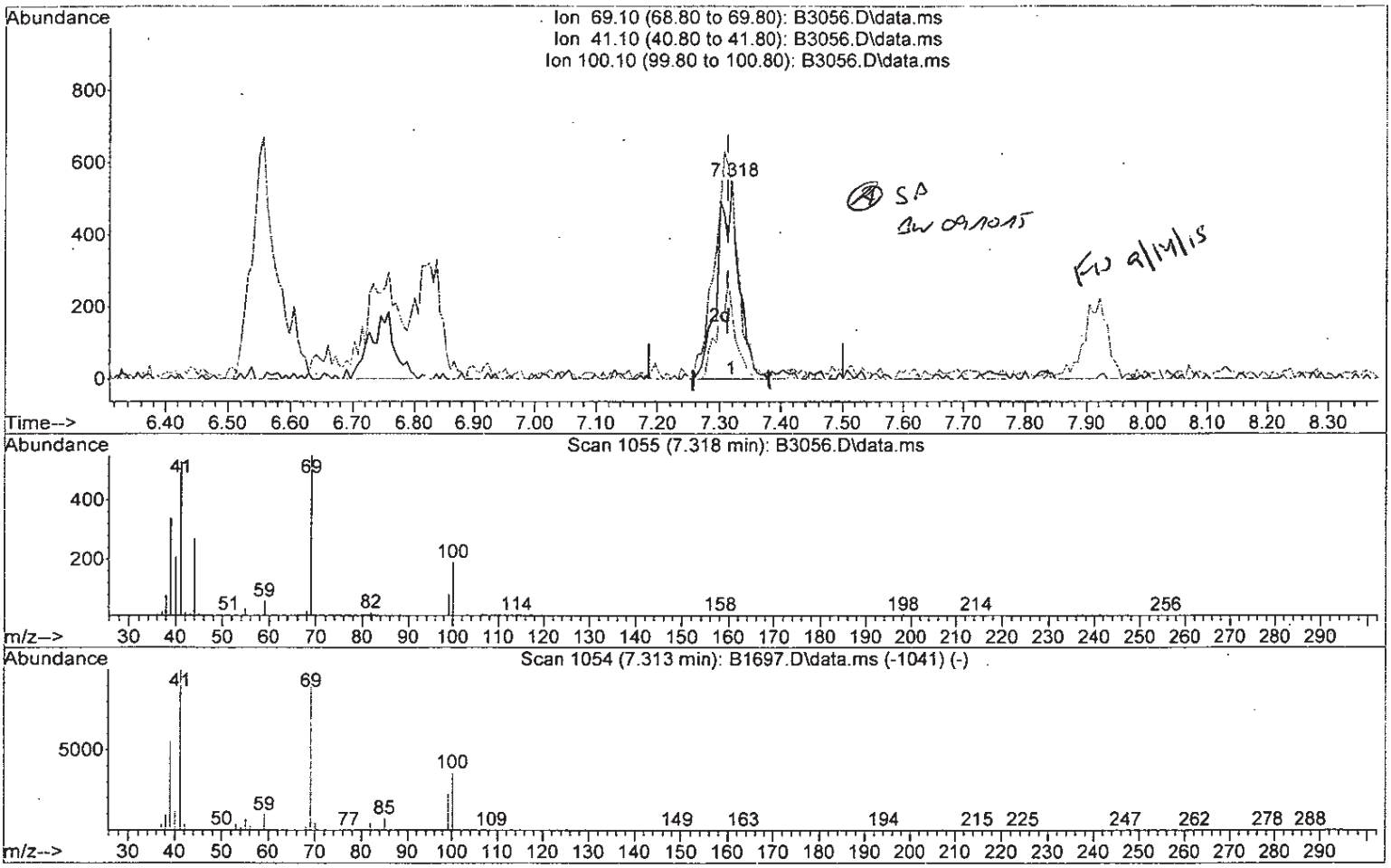
7.318min (+0.006) 0.42 ug/L

response 597

Ion	Exp%	Act%
69.10	100	100
41.10	103.00	96.17
100.10	38.40	34.43
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(58) Methyl Methacrylate

7.318min (+0.006) 0.93 ug/L m

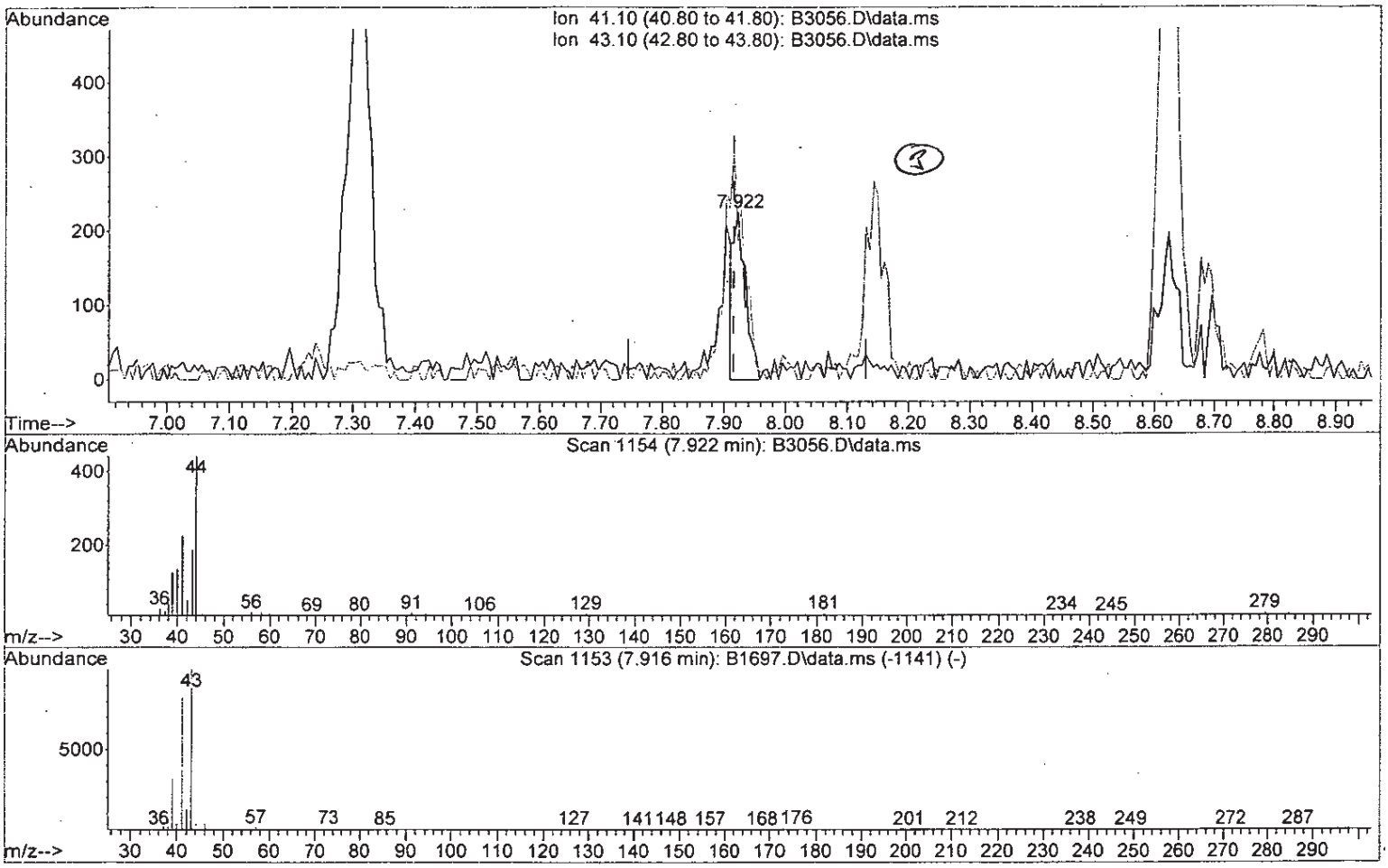
response 1302

Ion	Exp%	Act%
69.10	100	100
41.10	103.00	96.17
100.10	38.40	34.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(60) 2-Nitropropane

7.922min (+0.006) 0.79 ug/L

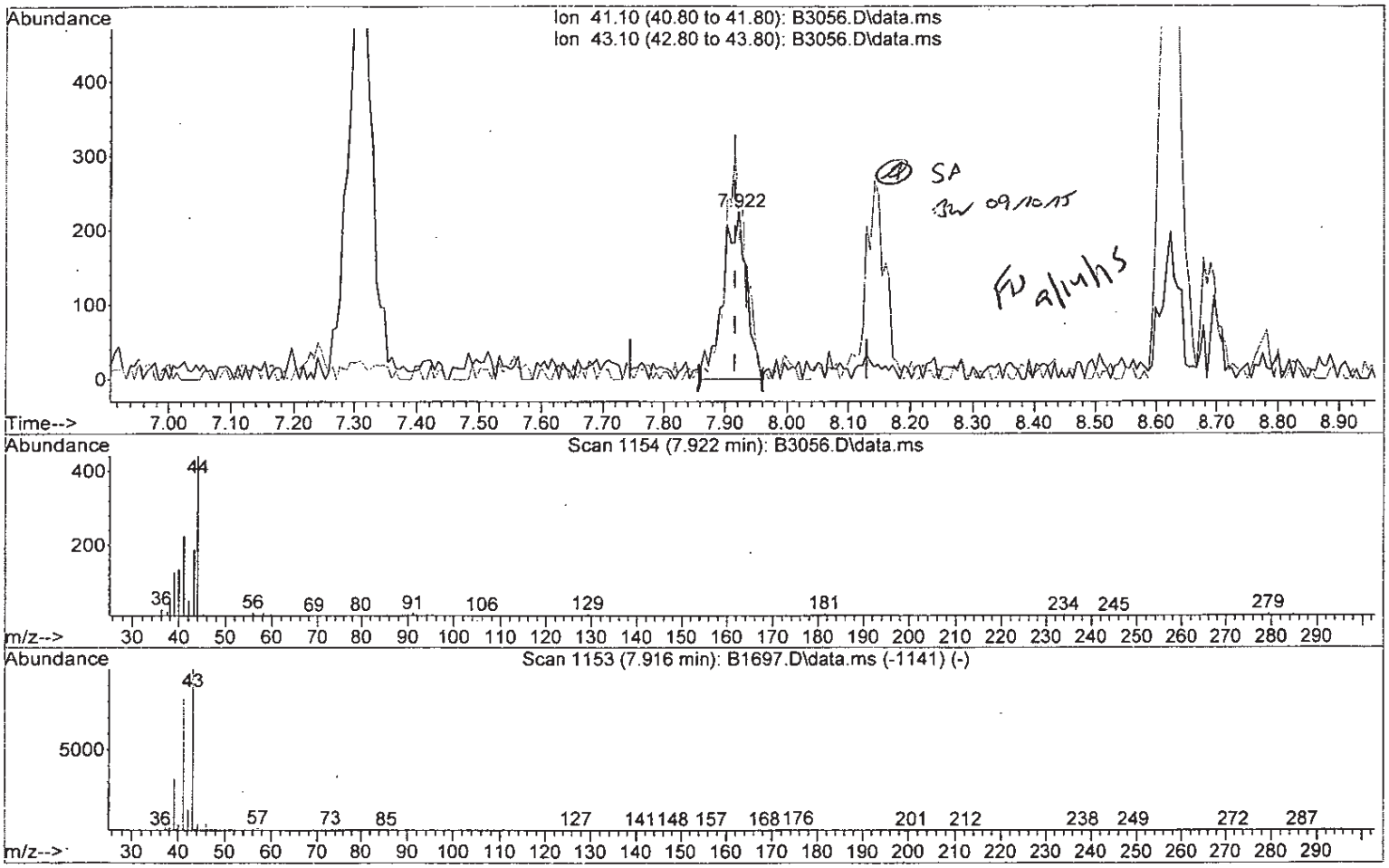
response 317

Ion	Exp%	Act%
41.10	100	100
43.10	107.50	83.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(60) 2-Nitropropane

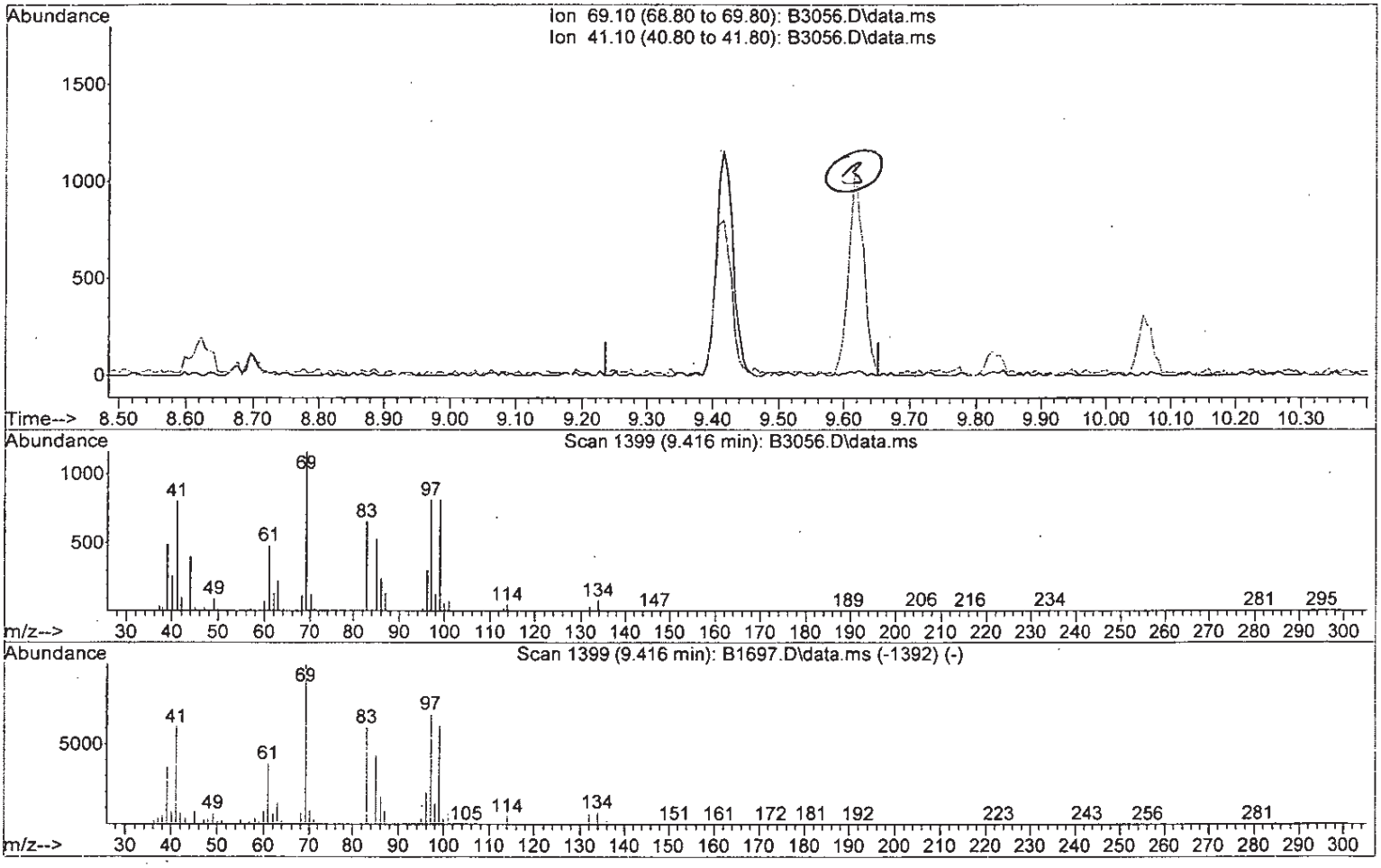
7.922min (+0.006) 1.46 ug/L m

response 585

Ion	Exp%	Act%
41.10	100	100
43.10	107.50	83.11#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(67) Ethyl Methacrylate

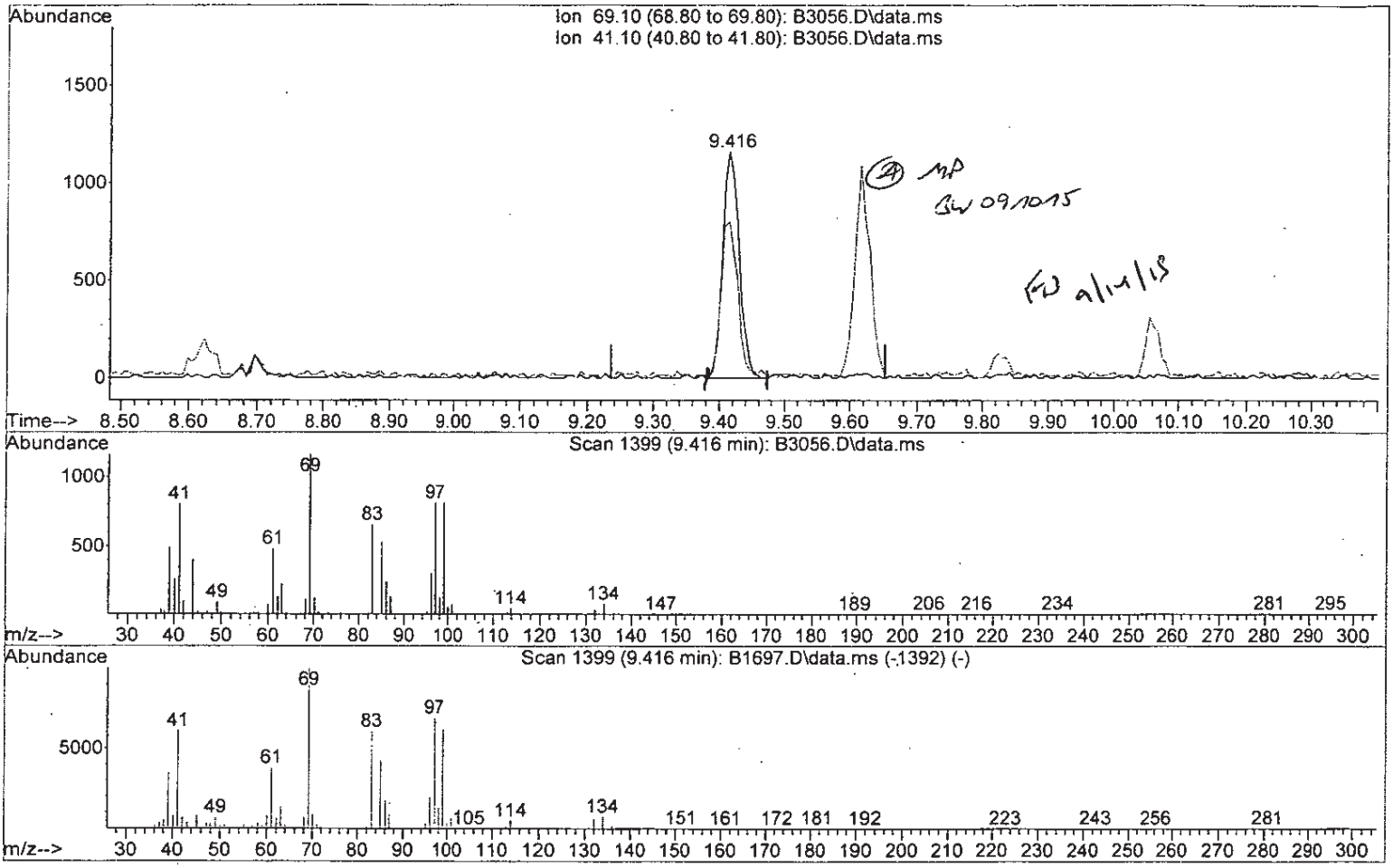
9.416min (-9.416) 0.00 ug/L

response 0

Ion	Exp%	Act%
69.10	100	0.00
41.10	57.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(67) Ethyl Methacrylate

9.416min (-0.000) 0.86 ug/L m

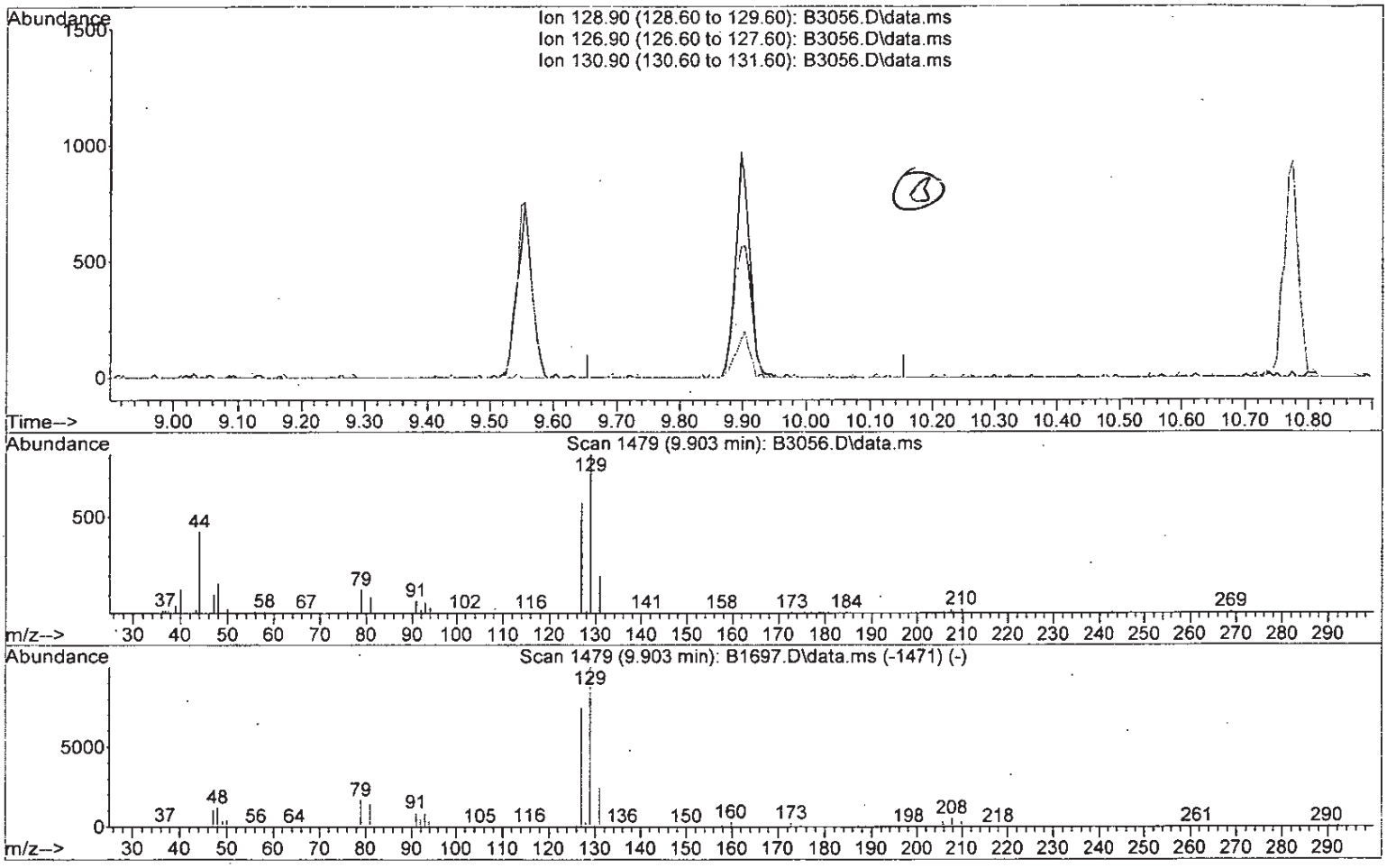
response 2020

Ion	Exp%	Act%
69.10	100	100
41.10	57.00	69.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(74) Dibromochloromethane (P)

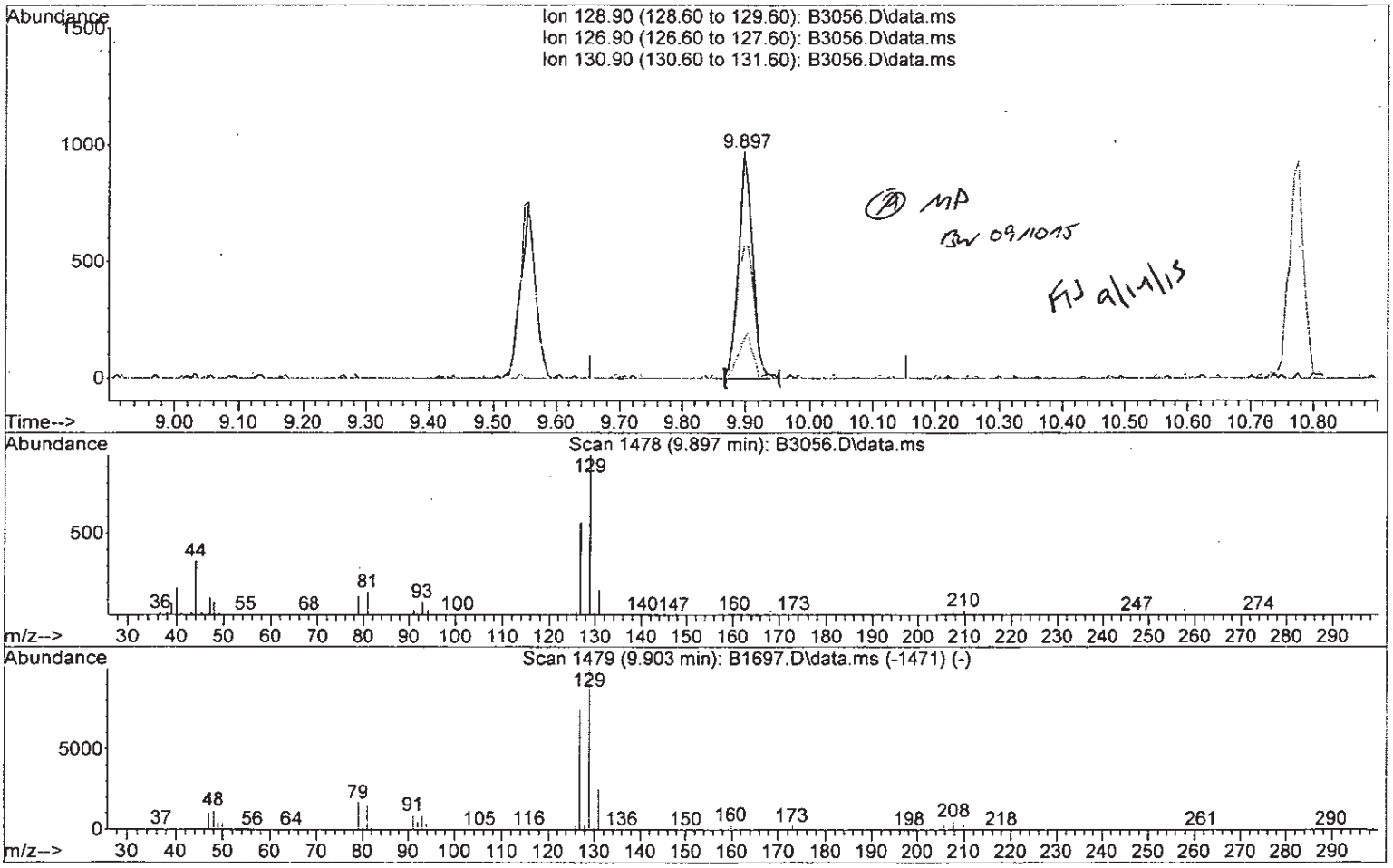
9.903min (-9.903) 0.00 ug/L

response 0

Ion	Exp%	Act%
128.90	100	0.00
126.90	75.70	0.00#
130.90	23.90	0.00#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:51:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3056.D\data.ms

(74) Dibromochloromethane (P)

9.897min (-0.006) 0.89 ug/L m

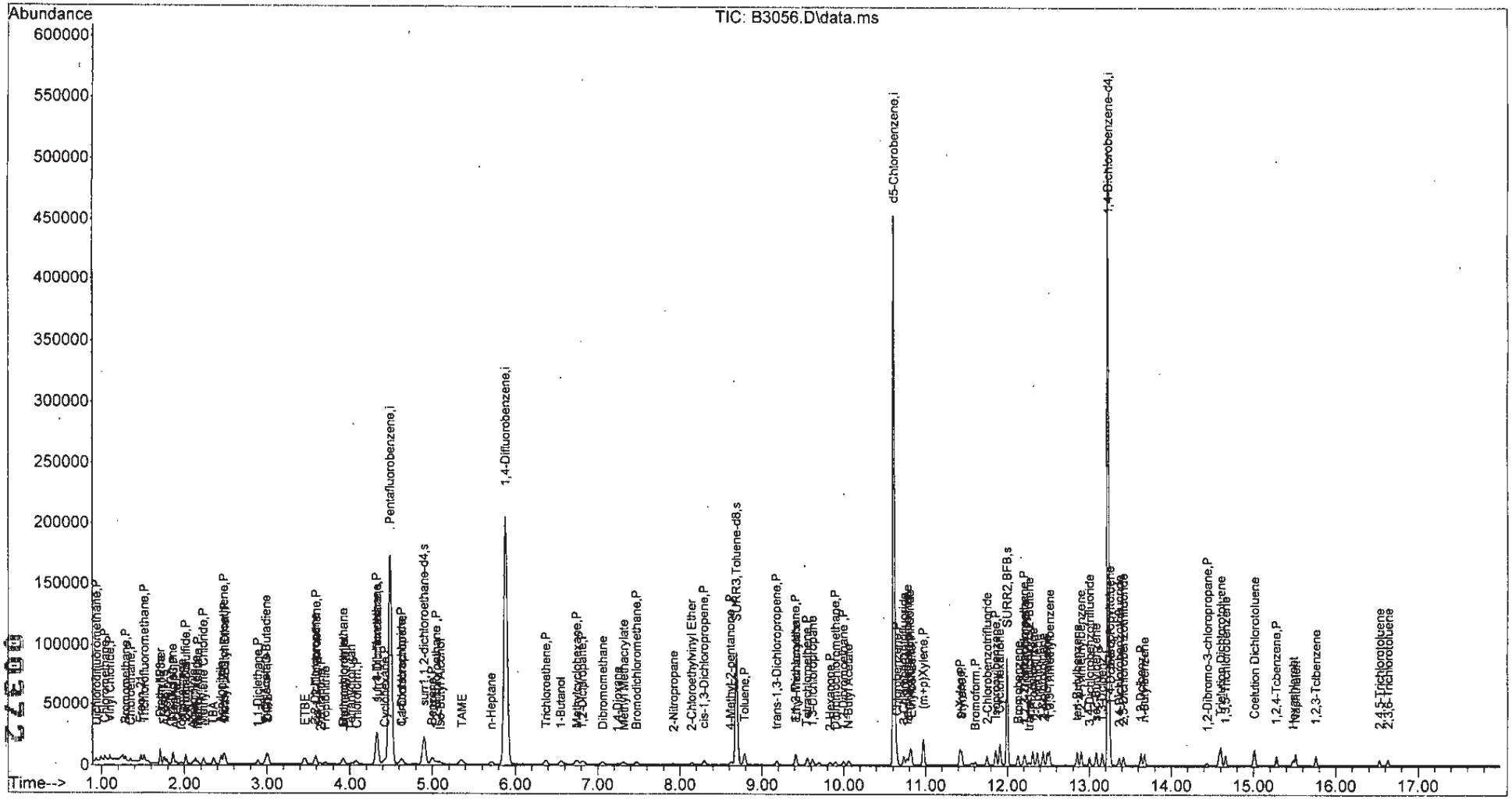
response 1498

Ion	Exp%	Act%
128.90	100	100
126.90	75.70	58.10
130.90	23.90	16.51
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3056.D
Acq On : 10 Sep 2015 9:34 am
Operator : B Wojtasiewicz
Sample : 1 ppb Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 13:55:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3057.D
Acq On : 10 Sep 2015 9:58 am
Operator : B Wojtasiewicz
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:57:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

BW 091015

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	175976	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	260272	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.617	117	225061	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	113056	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	17093	10.57	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 21.14%#			
47) surr1,1,2-dichloroetha...	4.898	65	20094	11.08	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 22.16%#			
64) SURR3,Toluene-d8	8.690	98	67333	10.97	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.94%#			
69) SURR2,BFB	11.994	95	23510	10.81	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.62%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.936	85	2541m	1.65	ug/L	
3) Chloromethane	1.039	50	3084	2.02	ug/L	98
4) Vinyl Chloride	1.100	62	3533	1.89	ug/L	98
5) Bromomethane	1.283	94	2557	1.59	ug/L	93
6) Chloroethane	1.350	64	2203	1.72	ug/L	95
7) Freon 21	1.472	67	6033	1.77	ug/L	94
8) Trichlorofluoromethane	1.509	101	4141	1.67	ug/L	99
9) Diethyl Ether	1.710	59	3830	2.76	ug/L	88
10) Freon 123a	1.710	67	3957	2.03	ug/L	94
11) Freon 123	1.753	83	4842	2.09	ug/L	97
12) Acrolein	1.789	56	4516	10.49	ug/L	92
13) 1,1-Diclethene	1.856	96	2999	2.08	ug/L	89
14) Freon 113	1.868	101	3048	2.19	ug/L	97
15) Acetone	1.899	43	2488	2.78	ug/L	93
16) 2-Propanol	2.021	45	6357	46.08	ug/L	89
17) Iodomethane	1.966	142	2118	1.37	ug/L	97
18) Carbon Disulfide	2.015	76	7975	1.84	ug/L	98
19) Acetonitrile	2.106	40	1782m	11.78	ug/L	
20) Allyl Chloride	2.137	76	1687	1.96	ug/L #	78
21) Methyl Acetate	2.161	43	3558	2.31	ug/L	90
22) Methylene Chloride	2.234	84	3639	2.01	ug/L	95
23) TBA	2.356	59	10470	45.67	ug/L	93
24) Acrylonitrile	2.441	53	9205	10.44	ug/L	94
25) Methyl-t-Butyl Ether	2.490	73	11553	2.42	ug/L	97
26) trans-1,2-Dichloroethene	2.478	96	3423	1.97	ug/L	91
27) 1,1-Diclethane	2.886	63	6027	2.13	ug/L	98
28) Vinyl Acetate	2.978	86	762	1.85	ug/L #	65
29) DIPE	3.014	45	10604	2.24	ug/L	99
30) 2-Chloro-1,3-Butadiene	2.996	53	5254	1.96	ug/L	93
31) ETBE	3.453	59	11033	2.50	ug/L	96
32) 2,2-Dichloropropane	3.588	77	4273	2.30	ug/L	99
33) cis-1,2-Dichloroethene	3.588	96	3904	1.95	ug/L	94
34) 2-Butanone	3.648	43	2275	2.02	ug/L	94
35) Propionitrile	3.703	54	3809	10.42	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3057.D
Acq On : 10 Sep 2015 9:58 am
Operator : B Wojtasiewicz
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:57:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	3.917	130	2389	1.89 ug/L	94
37) Methacrylonitrile	3.929	67	1968	2.07 ug/L	98
38) Tetrahydrofuran	4.020	42	1444	2.29 ug/L #	62
39) Chloroform	4.075	83	6091	1.96 ug/L	90
40) 1,1,1-Trichloroethane	4.337	97	4900	2.11 ug/L	100
41) TAME	5.343	73	10719	2.49 ug/L	94
43) Cyclohexane	4.411	41	2956m	2.59 ug/L	
45) Carbontetrachloride	4.612	121	916	1.74 ug/L	85
46) 1,1-Dichloropropene	4.624	75	4302	2.10 ug/L	94
48) Benzene	5.002	78	14324	2.18 ug/L	95
49) 1,2-Dichloroethane	5.045	62	5012	2.21 ug/L	93
50) Iso-Butyl Alcohol	5.093	43	4032	43.12 ug/L	93
51) n-Heptane	5.709	43	2969	2.82 ug/L	93
52) 1-Butanol	6.550	56	6268	103.09 ug/L	89
53) Trichloroethene	6.367	130	3838	2.22 ug/L	92
54) Methylcyclohexane	6.745	55	3644	2.60 ug/L #	71
55) 1,2-Diclpropane	6.819	63	3673	2.28 ug/L	84
56) Dibromomethane	7.056	93	2404	1.98 ug/L #	78
57) 1,4-Dioxane	7.221	88	1474m	42.76 ug/L	
58) Methyl Methacrylate	7.312	69	2965	2.15 ug/L	90
59) Bromodichloromethane	7.471	83	4034	1.93 ug/L	97
60) 2-Nitropropane	7.910	41	1299	3.30 ug/L	95
61) 2-Chloroethylvinyl Ether	8.148	63	2215	1.95 ug/L	100
62) cis-1,3-Dichloropropene	8.294	75	4691	2.05 ug/L	97
63) 4-Methyl-2-pentanone	8.623	43	3794	2.09 ug/L	95
65) Toluene	8.788	91	15594	2.17 ug/L	95
66) trans-1,3-Dichloropropene	9.184	75	3885	1.89 ug/L	92
67) Ethyl Methacrylate	9.416	69	4939	2.15 ug/L	99
68) 1,1,2-Trichloroethane	9.410	97	3648	2.09 ug/L	99
71) Tetrachloroethene	9.556	164	2726	2.31 ug/L #	84
72) 2-Hexanone	9.830	43	2951	2.16 ug/L	87
73) 1,3-Dichloropropane	9.617	76	5994	2.12 ug/L	95
74) Dibromochloromethane	9.903	129	3004	1.85 ug/L	91
75) N-Butyl Acetate	10.062	43	5329	2.16 ug/L	94
76) 1,2-Dibromoethane	9.995	107	3509	2.05 ug/L	95
77) 3-Chlorobenzotrifluoride	10.732	180	4833	2.42 ug/L	94
78) Chlorobenzene	10.647	112	9697	2.13 ug/L	92
79) 4-Chlorobenzotrifluoride	10.806	180	4348	2.47 ug/L	97
80) 1,1,1,2-Tetrachloroethane	10.775	131	3049	2.13 ug/L	97
81) Ethylbenzene	10.824	106	4944	2.19 ug/L	96
82) (m+p)Xylene	10.976	106	12200	4.49 ug/L	99
83) o-Xylene	11.421	106	6252	2.31 ug/L	95
84) Styrene	11.440	104	9859	2.11 ug/L	98
85) Bromoform	11.604	173	2110	1.92 ug/L	96
86) 2-Chlorobenzotrifluoride	11.751	180	4872	2.36 ug/L	99
87) Isopropylbenzene	11.854	105	15061	2.42 ug/L	99
88) Cyclohexanone	11.903	55	13664	44.13 ug/L	93
89) trans-1,4-Dichloro-2-B...	12.263	53	1038	1.84 ug/L	93
91) 1,1,2,2-Tetrachloroethane	12.202	83	5078	1.91 ug/L	95
92) Bromobenzene	12.129	156	3978	2.14 ug/L	99
93) 1,2,3-Trichloropropane	12.214	110	1633	2.20 ug/L #	82

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3057.D
Acq On : 10 Sep 2015 9:58 am
Operator : B Wojtasiewicz
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

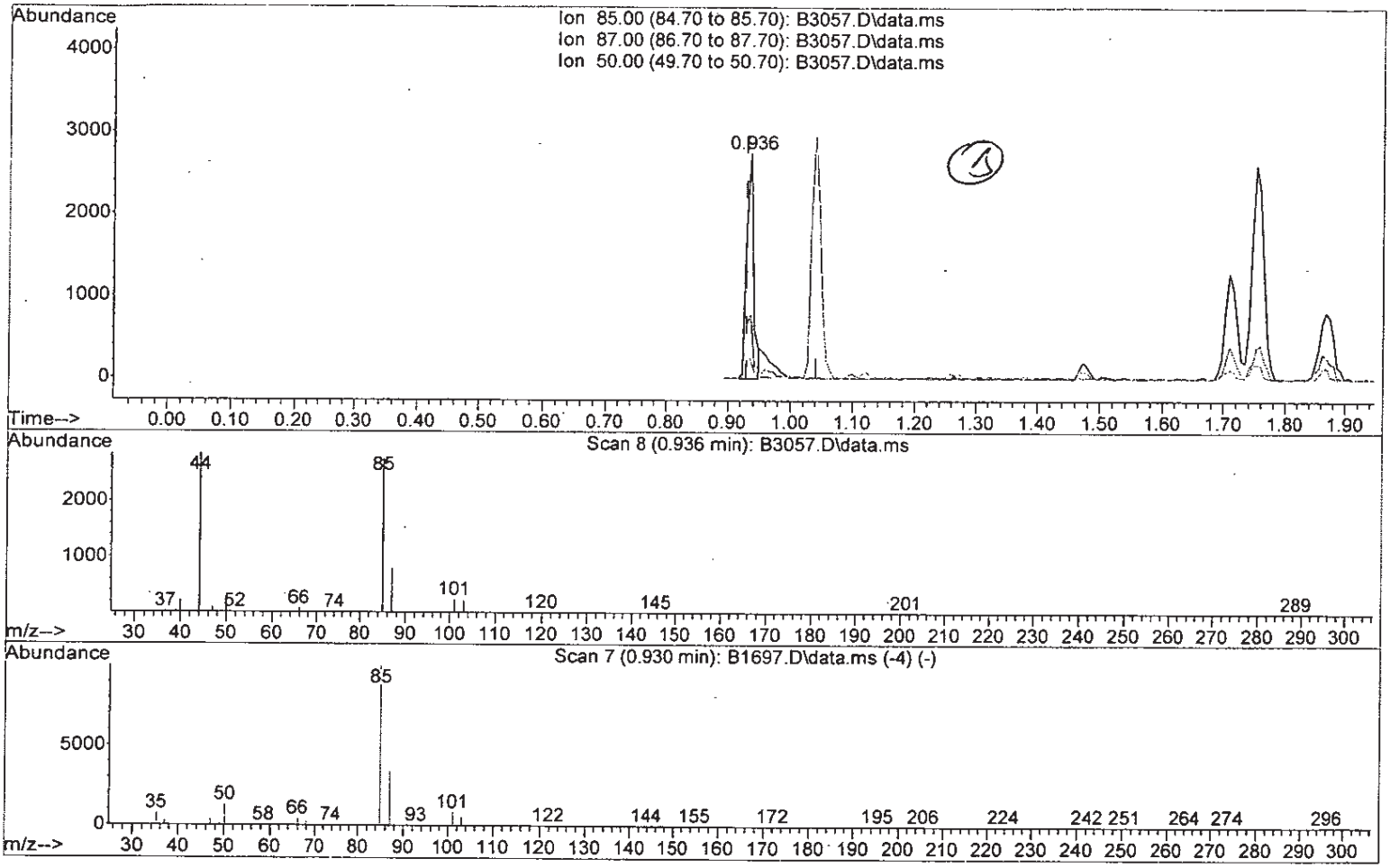
Quant Time: Sep 10 13:57:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	12.305	91	16537	2.30	ug/L	99
95)	2-Chlorotoluene	12.360	91	11054	2.45	ug/L	95
96)	3-Chlorotoluene	12.433	91	10827	2.25	ug/L	94
97)	4-Chlorotoluene	12.482	91	12159	2.30	ug/L	93
98)	1,3,5-Trimethylbenzene	12.513	105	11590	2.40	ug/L	96
99)	tert-Butylbenzene	12.848	119	9513	2.48	ug/L	96
100)	1,2,4-Trimethylbenzene	12.903	105	12096	2.46	ug/L	97
101)	3,4-Dichlorobenzotrifl...	13.000	214	3238	2.48	ug/L	98
102)	sec-Butylbenzene	13.086	105	13316	2.37	ug/L	98
103)	p-Isopropyltoluene	13.250	119	10917	2.32	ug/L	96
104)	1,3-Dclbenz	13.153	146	7294	2.27	ug/L	96
105)	1,4-Dclbenz	13.256	146	7581	2.30	ug/L	91
106)	2,4-Dichlorobenzotrifl...	13.366	214	3085	2.63	ug/L	94
107)	2,5-Dichlorobenzotrifl...	13.415	214	3336	2.47	ug/L	91
108)	n-Butylbenzene	13.671	91	9496	2.22	ug/L	99
109)	1,2-Dclbenz	13.628	146	7398	2.31	ug/L	94
110)	1,2-Dibromo-3-chloropr...	14.439	157	966	1.92	ug/L	81
111)	Trielution Dichlorotol...	14.598	125	15829	7.11	ug/L	98
112)	1,3,5-Trichlorobenzene	14.659	180	4431	2.43	ug/L	96
113)	Coelution Dichlorotoluene	15.012	125	11743	4.63	ug/L	94
114)	1,2,4-Tcbenzene	15.280	180	4636	2.57	ug/L	90
115)	Hexachlorobt	15.482	225	1613	2.57	ug/L	89
116)	Naphthalen	15.512	128	13566	2.06	ug/L	98
117)	1,2,3-Tclbenzene	15.756	180	4252	2.38	ug/L	98
118)	2,4,5-Trichlorotoluene	16.524	159	2145	2.07	ug/L	96
119)	2,3,6-Trichlorotoluene	16.634	159	2133	2.36	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3057.D
Acq On : 10 Sep 2015 9:58 am
Operator : B Wojtasiewicz
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:56:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3057.D\data.ms

(2) Dichlorodifluoromethane (P)

0.936min (+0.006) 1.33 ug/L

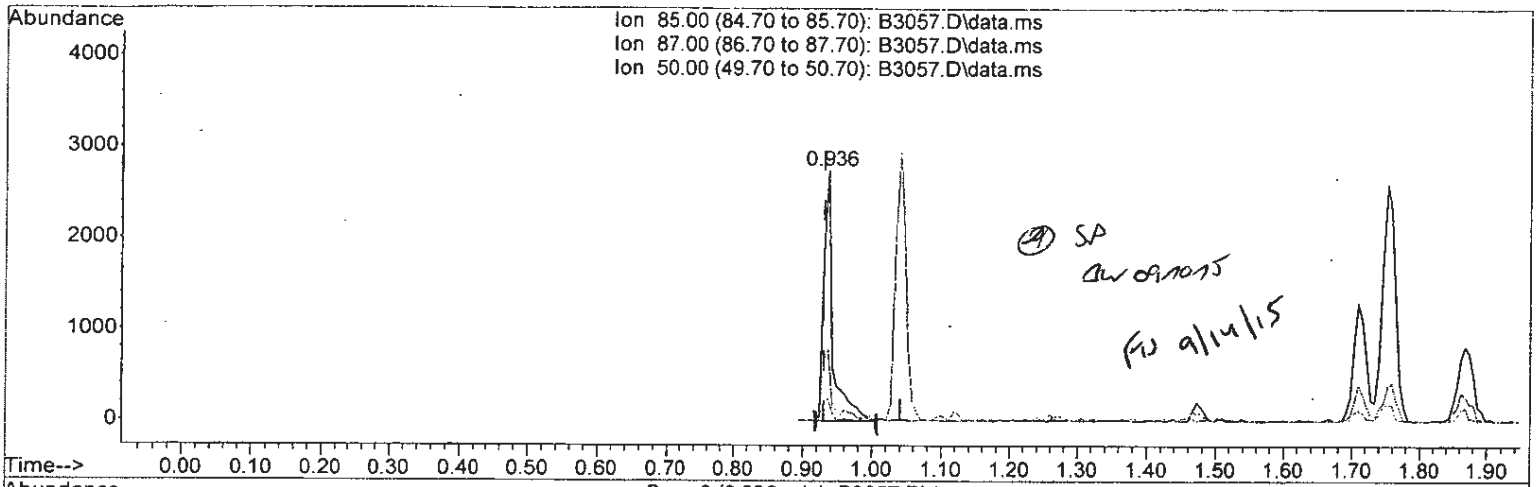
response 2054

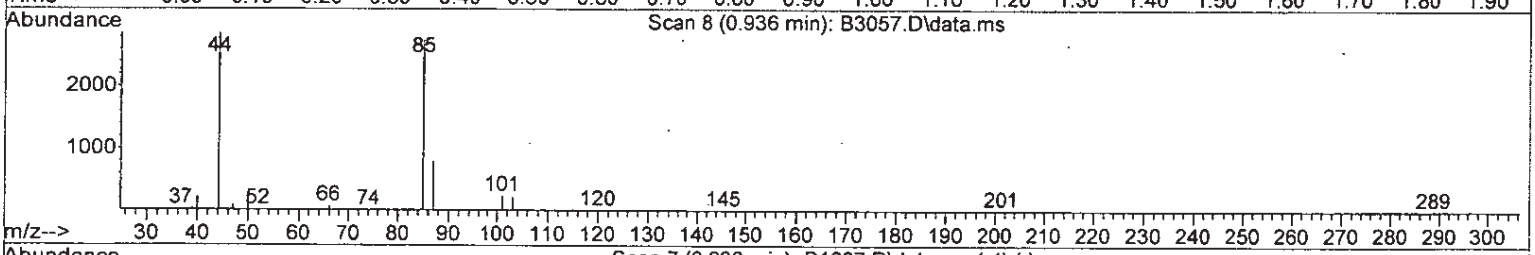
Ion	Exp%	Act%
85.00	100	100
87.00	35.00	28.68
50.00	10.60	8.70
0.00	0.00	0.00

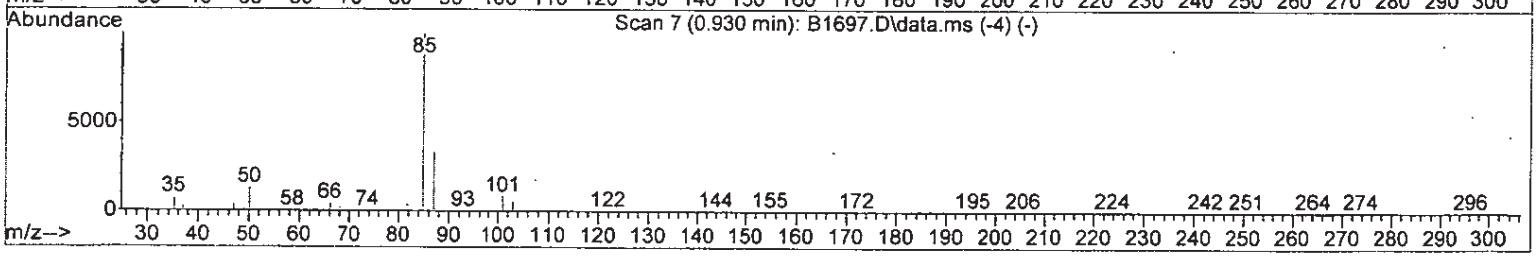
00376

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3057.D
Acq On : 10 Sep 2015 9:58 am
Operator : B Wojtasiewicz
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:56:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration







TIC: B3057.D\data.ms

(2) Dichlorodifluoromethane (P)

0.936min (+0.006) 1.65 ug/L m

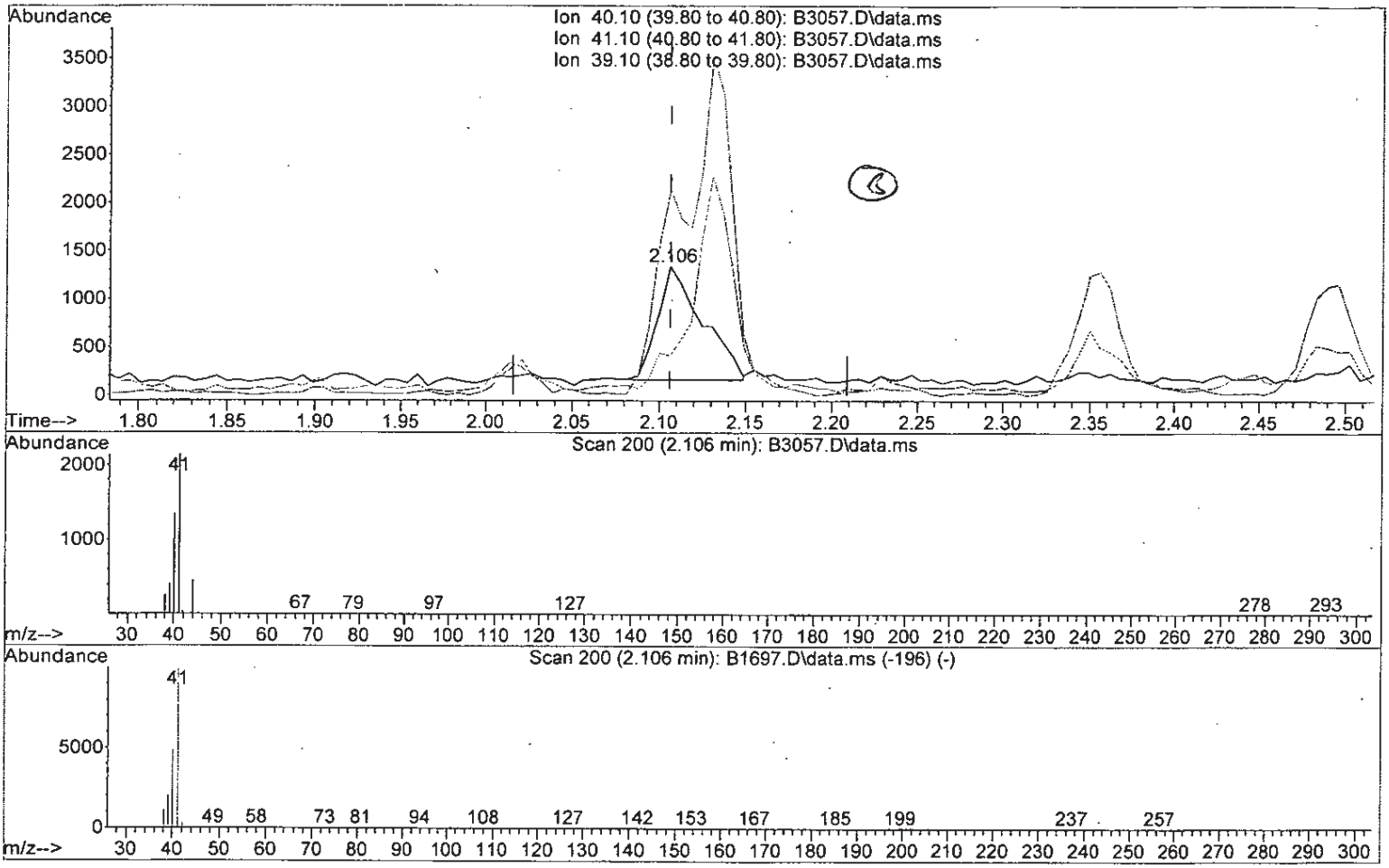
response 2541

Ion	Exp%	Act%
85.00	100	100
87.00	35.00	28.68
50.00	10.60	8.70
0.00	0.00	0.00

00377

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3057.D
Acq On : 10 Sep 2015 9:58 am
Operator : B Wojtasiewicz
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:56:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3057.D\data.ms

(19) Acetonitrile

2.106min (-0.000) 13.99 ug/L

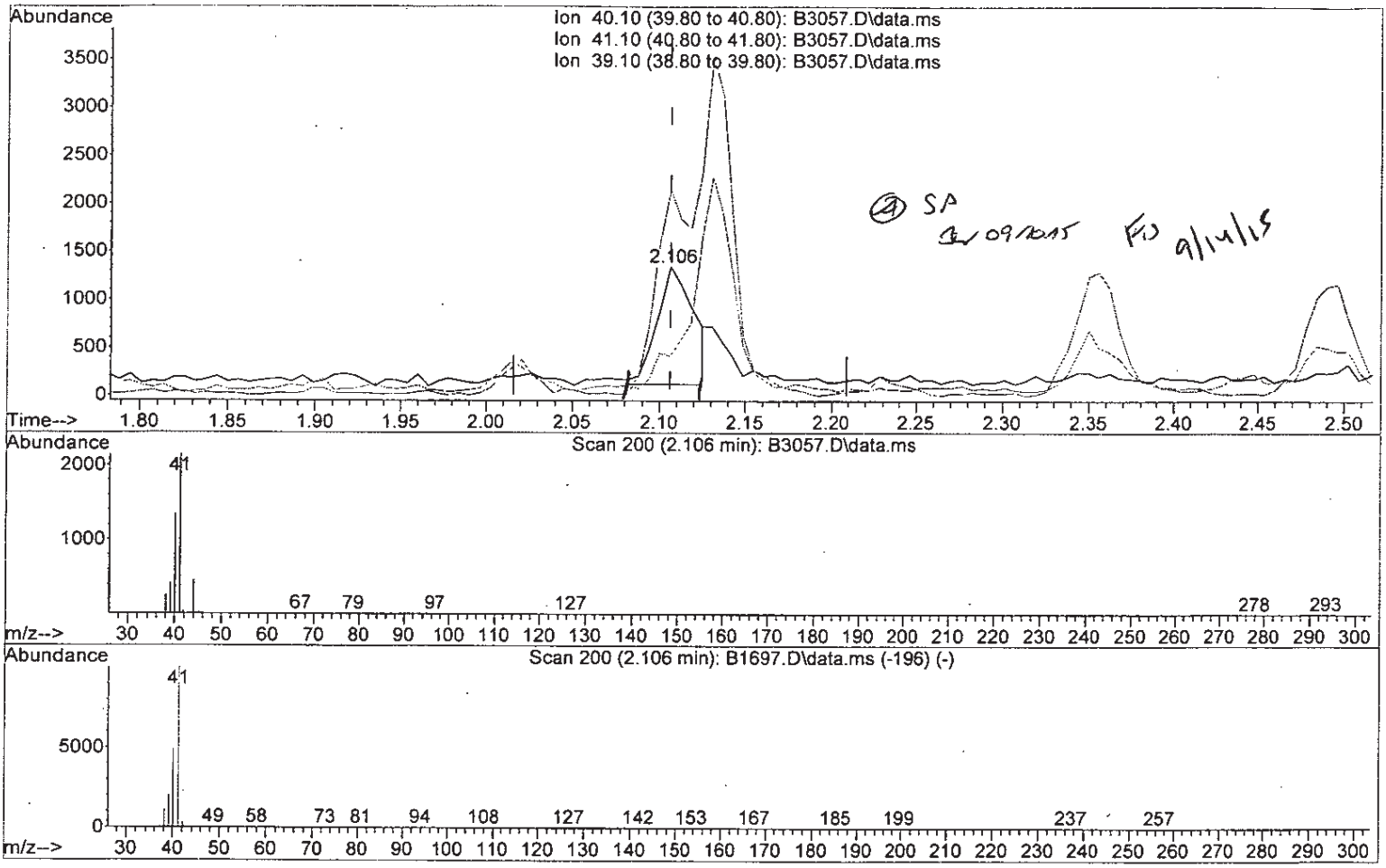
response 2116

Ion	Exp%	Act%
40.10	100	100
41.10	191.80	159.76#
39.10	39.30	30.82
0.00	0.00	0.00

00378

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3057.D
Acq On : 10 Sep 2015 9:58 am
Operator : B Wojtasiewicz
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:56:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3057.D\data.ms

(19) Acetonitrile

2.106min (-0.000) 11.78 ug/L m

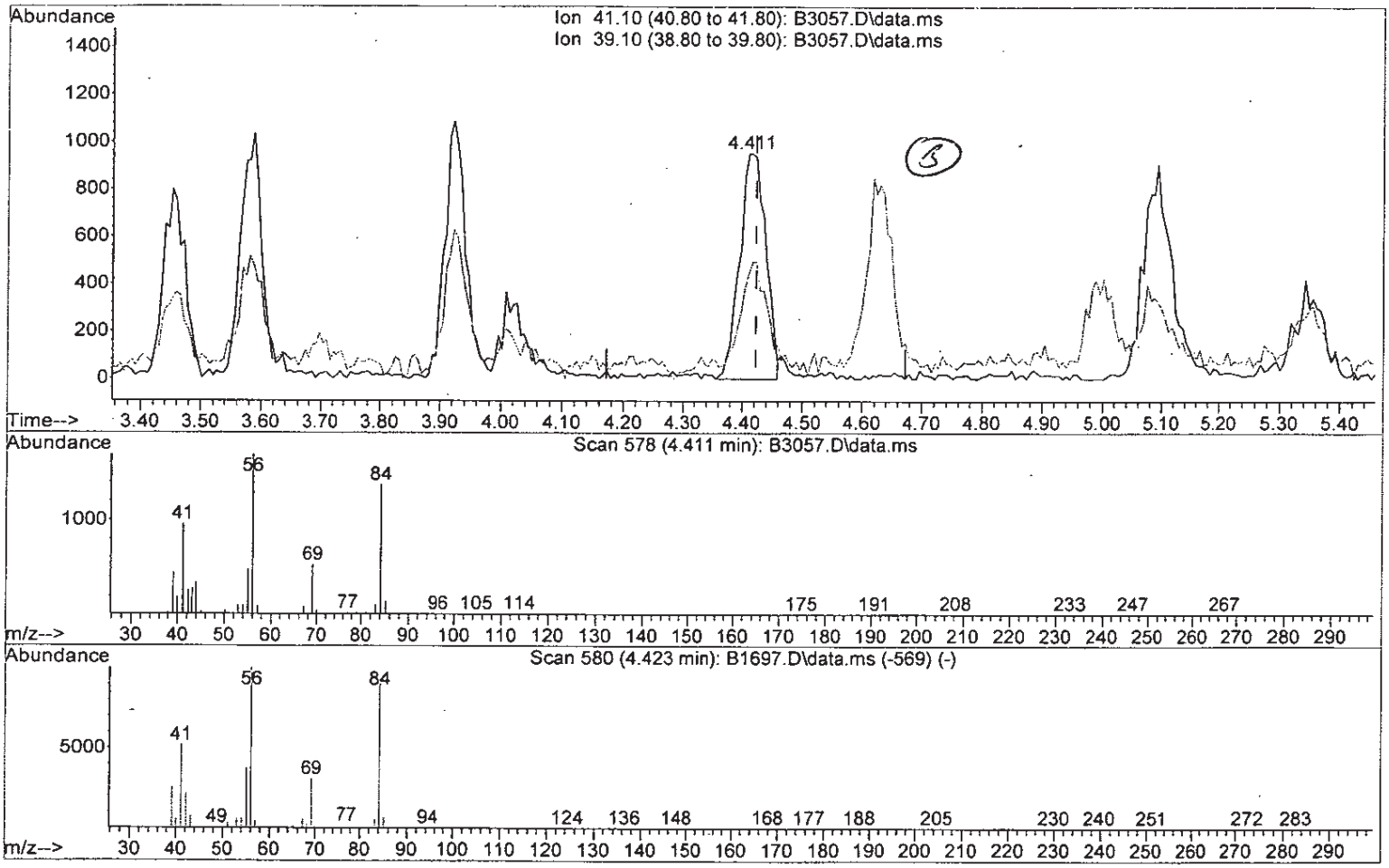
response 1782

Ion	Exp%	Act%
40.10	100	100
41.10	191.80	159.76#
39.10	39.30	30.82
0.00	0.00	0.00

00379

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3057.D
Acq On : 10 Sep 2015 9:58 am
Operator : B Wojtasiewicz
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:56:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3057.D\data.ms

(43) Cyclohexane (P)

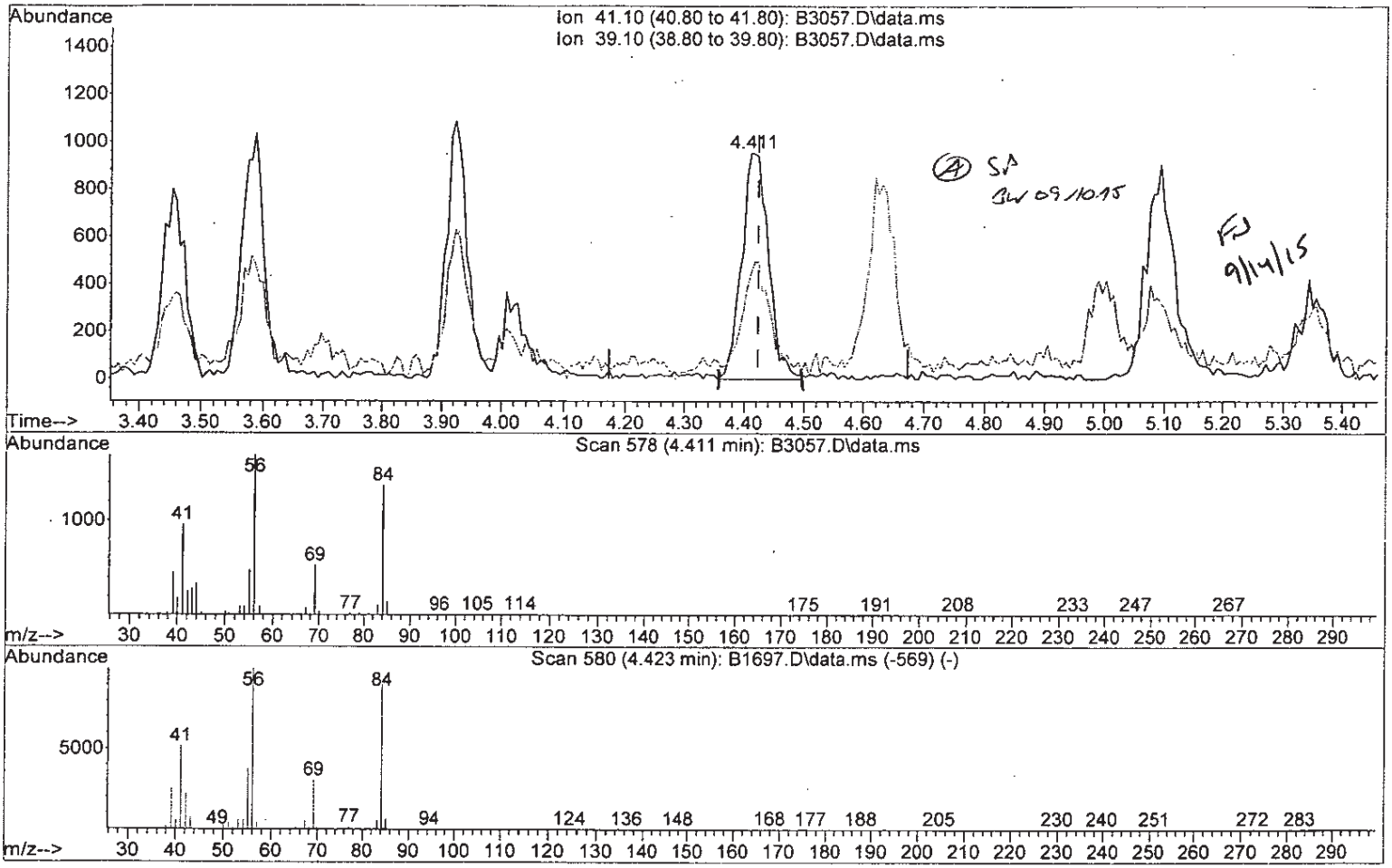
4.411min (-0.012) 2.50 ug/L

response 2859

Ion	Exp%	Act%
41.10	100	100
39.10	49.60	46.74
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3057.D
Acq On : 10 Sep 2015 9:58 am
Operator : B Wojtasiewicz
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:56:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3057.D\data.ms

(43) Cyclohexane (P)

4.411min (-0.012) 2.59 ug/L m

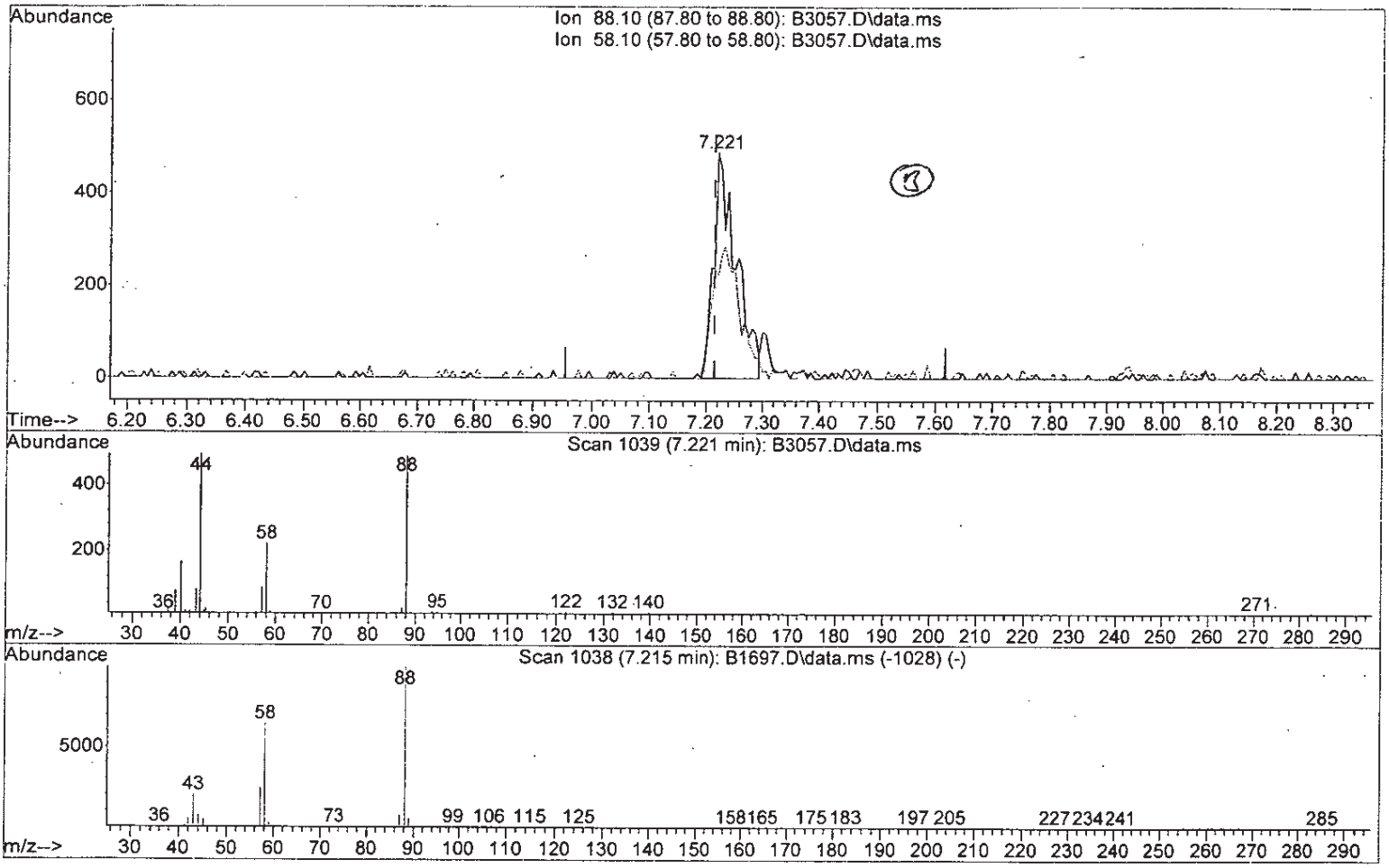
response 2956

Ion	Exp%	Act%
41.10	100	100
39.10	49.60	46.74
0.00	0.00	0.00
0.00	0.00	0.00

00381

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3057.D
Acq On : 10 Sep 2015 9:58 am
Operator : B Wojtasiewicz
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:56:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3057.D\data.ms

(57) 1,4-Dioxane

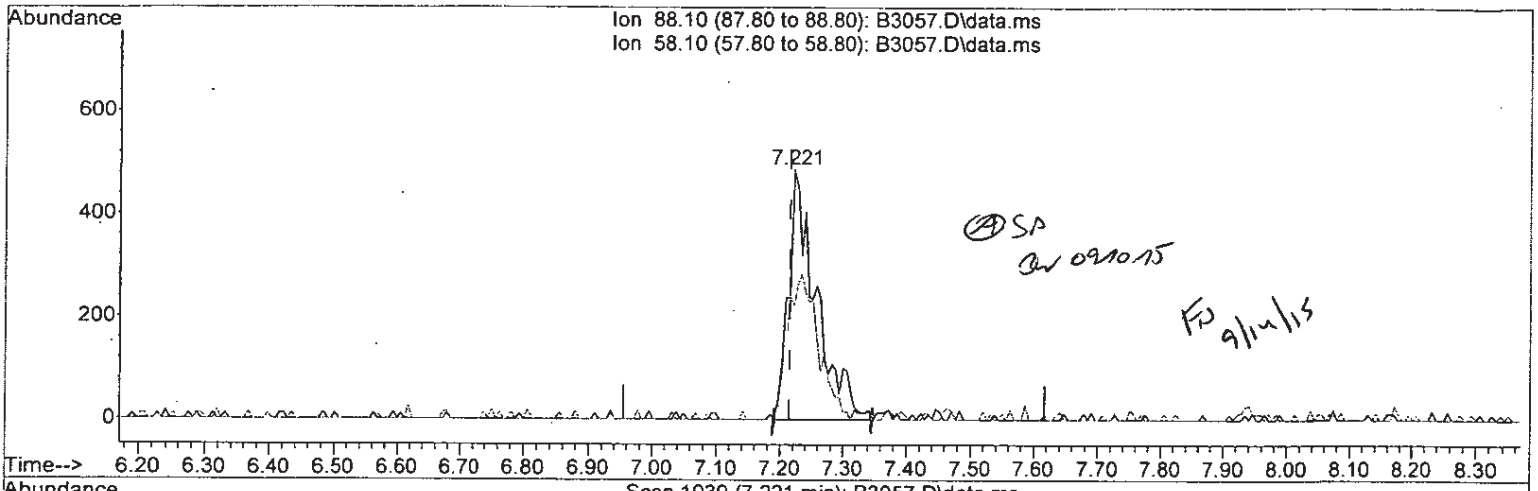
7.221min (+0.006) 39.31 ug/L

response 1355

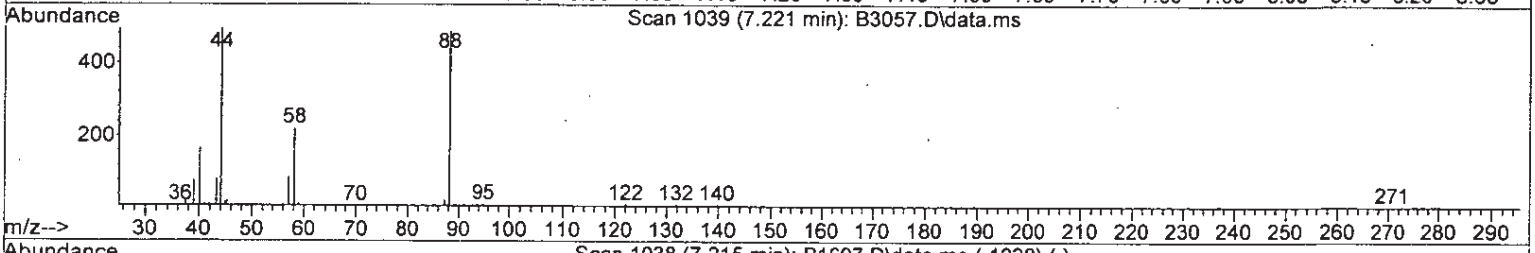
Ion	Exp%	Act%
88.10	100	100
58.10	59.60	45.27
0.00	0.00	0.00
0.00	0.00	0.00

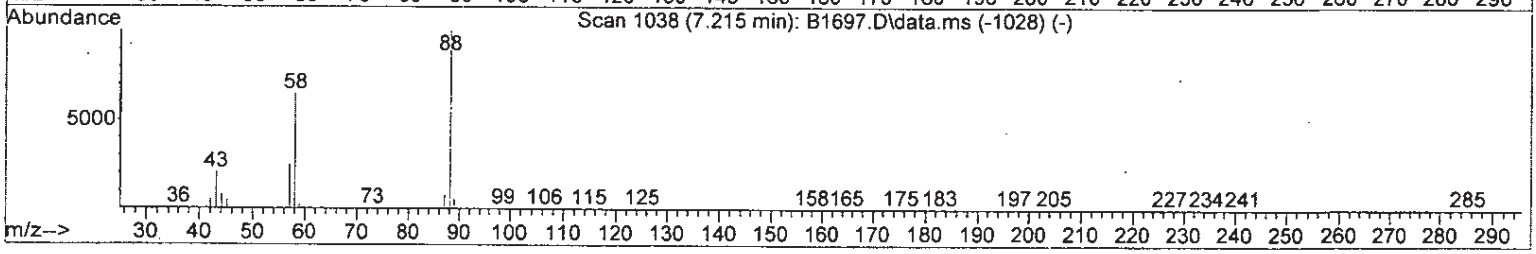
Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3057.D
Acq On : 10 Sep 2015 9:58 am
Operator : B Wojtasiewicz
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:56:00 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



SP 09/10/15 FJ 9/14/15





TIC: B3057.D\data.ms

(57) 1,4-Dioxane

7.221min (+0.006) 42.76 ug/L m

response 1474

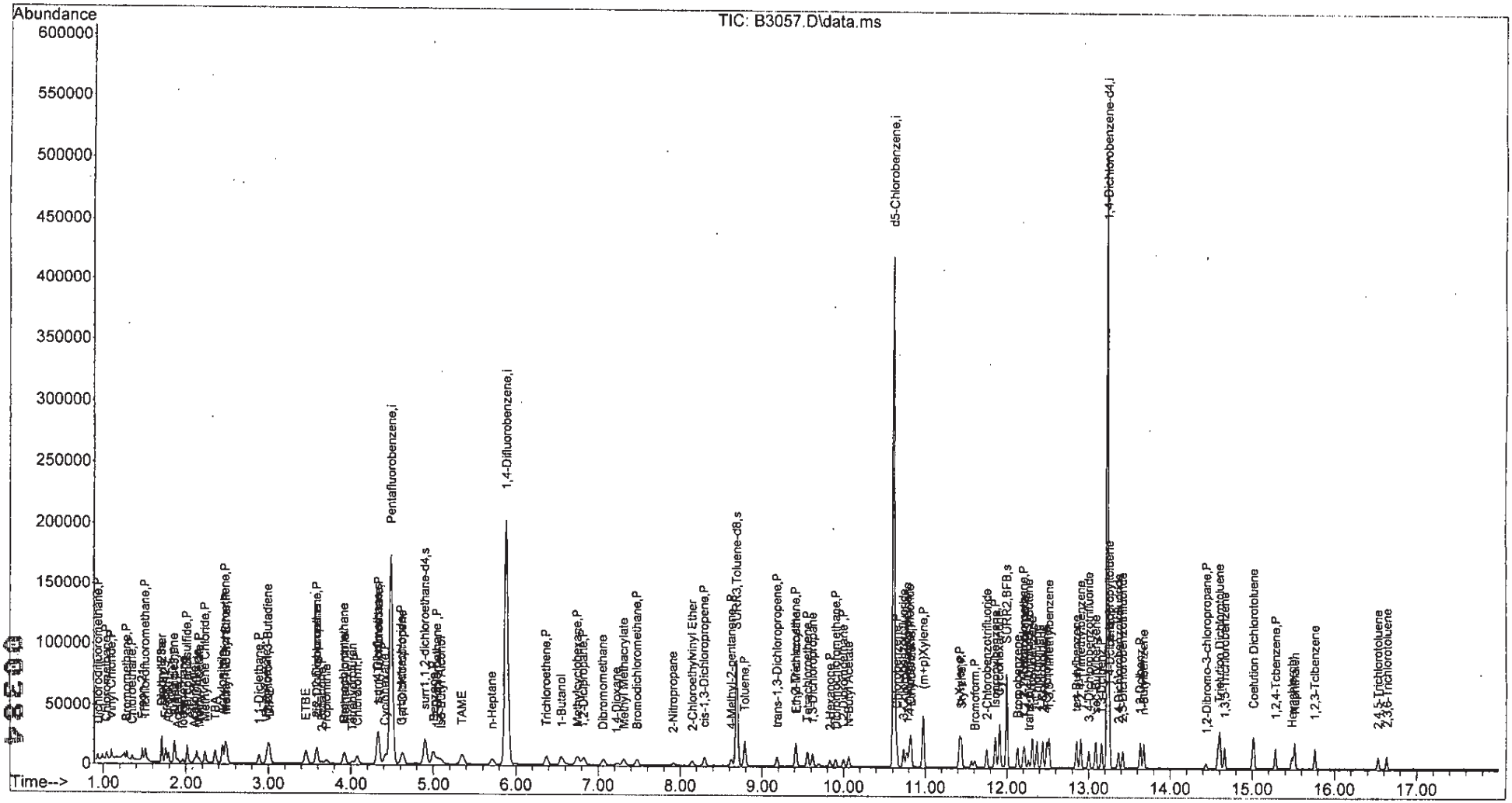
Ion	Exp%	Act%
88.10	100	100
58.10	59.60	45.27
0.00	0.00	0.00
0.00	0.00	0.00

00383

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3057.D
Acq On : 10 Sep 2015 9:58 am
Operator : B Wojtasiewicz
Sample : 2 ppb Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:57:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3058.D
Acq On : 10 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 13:59:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

BV 09/10/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	176757	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	263589	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.617	117	232599	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	115728	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	17966	10.97	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 21.94%#			
47) surr1,1,2-dichloroetha...	4.898	65	20470	11.14	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 22.28%#			
64) SURR3,Toluene-d8	8.690	98	71558	11.51	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 23.02%#			
69) SURR2,BFB	11.994	95	26357	11.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 23.94%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.936	85	6392	4.12	ug/L	95
3) Chloromethane	1.039	50	7749	5.06	ug/L	96
4) Vinyl Chloride	1.100	62	8590	4.57	ug/L	98
5) Bromomethane	1.283	94	4820m	2.98	ug/L	
6) Chloroethane	1.350	64	5633	4.38	ug/L	95
7) Freon 21	1.472	67	15036	4.38	ug/L	98
8) Trichlorofluoromethane	1.509	101	10381	4.16	ug/L	97
9) Diethyl Ether	1.710	59	8402	6.02	ug/L	94
10) Freon 123a	1.710	67	9851	5.03	ug/L	95
11) Freon 123	1.752	83	11061	4.75	ug/L	98
12) Acrolein	1.789	56	11132	25.75	ug/L	98
13) 1,1-Diclethene	1.856	96	6986	4.82	ug/L	89
14) Freon 113	1.868	101	7250	5.18	ug/L	99
15) Acetone	1.905	43	5064	5.63	ug/L	98
16) 2-Propanol	2.021	45	16171	116.69	ug/L	98
17) Iodomethane	1.966	142	5646	3.64	ug/L	96
18) Carbon Disulfide	2.015	76	19486	4.47	ug/L	99
19) Acetonitrile	2.106	40	4446m	29.26	ug/L	
20) Allyl Chloride	2.136	76	4073	4.71	ug/L #	85
21) Methyl Acetate	2.161	43	8343	5.39	ug/L	95
22) Methylene Chloride	2.234	84	8511	4.67	ug/L	94
23) TBA	2.356	59	28163	122.31	ug/L	90
24) Acrylonitrile	2.441	53	23180	26.18	ug/L	99
25) Methyl-t-Butyl Ether	2.490	73	27345	5.70	ug/L	96
26) trans-1,2-Dichloroethene	2.478	96	8212	4.70	ug/L	91
27) 1,1-Diclethane	2.886	63	14130	4.97	ug/L	97
28) Vinyl Acetate	2.978	86	1847	4.47	ug/L #	78
29) DIPE	3.014	45	26102	5.49	ug/L	96
30) 2-Chloro-1,3-Butadiene	2.996	53	12993	4.84	ug/L	94
31) ETBE	3.453	59	26517	5.98	ug/L	97
32) 2,2-Dichloropropane	3.587	77	10462	5.61	ug/L	99
33) cis-1,2-Dichloroethene	3.587	96	9411	4.67	ug/L #	81
34) 2-Butanone	3.642	43	5576	4.93	ug/L	99
35) Propionitrile	3.697	54	9736	26.52	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3058.D
Acq On : 10 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 13:59:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	3.923	130	5877	4.63 ug/L	96
37) Methacrylonitrile	3.923	67	4501	4.71 ug/L #	65
38) Tetrahydrofuran	4.008	42	3497	5.52 ug/L	96
39) Chloroform	4.075	83	14897	4.76 ug/L	100
40) 1,1,1-Trichloroethane	4.331	97	11929	5.11 ug/L	98
41) TAME	5.349	73	25648	5.93 ug/L	98
43) Cyclohexane	4.417	41	6676	5.77 ug/L	99
45) Carbontetrachloride	4.618	121	2378	4.45 ug/L	94
46) 1,1-Dichloropropene	4.624	75	10923	5.28 ug/L	98
48) Benzene	4.996	78	34650	5.22 ug/L	98
49) 1,2-Dichloroethane	5.044	62	11858	5.16 ug/L	92
50) Iso-Butyl Alcohol	5.087	43	10891	115.00 ug/L	96
51) n-Heptane	5.721	43	6778	6.36 ug/L	94
52) 1-Butanol	6.550	56	17071	277.22 ug/L	98
53) Trichloroethene	6.373	130	8791	5.02 ug/L	96
54) Methylcyclohexane	6.739	55	9207	6.49 ug/L #	82
55) 1,2-Diclpropane	6.819	63	8521	5.23 ug/L	97
56) Dibromomethane	7.056	93	5737	4.67 ug/L	98
57) 1,4-Dioxane	7.215	88	3830	109.71 ug/L	92
58) Methyl Methacrylate	7.312	69	7259	5.20 ug/L	97
59) Bromodichloromethane	7.477	83	10203	4.82 ug/L	98
60) 2-Nitropropane	7.916	41	3312	8.32 ug/L	90
61) 2-Chloroethylvinyl Ether	8.141	63	5440	4.72 ug/L	90
62) cis-1,3-Dichloropropene	8.294	75	11605	5.01 ug/L	90
63) 4-Methyl-2-pentanone	8.623	43	9795	5.33 ug/L	96
65) Toluene	8.788	91	37430	5.15 ug/L	96
66) trans-1,3-Dichloropropene	9.184	75	10352	4.97 ug/L	96
67) Ethyl Methacrylate	9.416	69	12044	5.18 ug/L	99
68) 1,1,2-Trichloroethane	9.409	97	8675	4.90 ug/L	97
71) Tetrachloroethene	9.556	164	6730	5.53 ug/L	93
72) 2-Hexanone	9.830	43	6984	4.95 ug/L	99
73) 1,3-Dichloropropane	9.617	76	14603	5.01 ug/L	94
74) Dibromochloromethane	9.903	129	7582	4.52 ug/L	92
75) N-Butyl Acetate	10.062	43	13827	5.42 ug/L	99
76) 1,2-Dibromoethane	9.995	107	8388	4.73 ug/L	98
77) 3-Chlorobenzotrifluoride	10.732	180	12005	5.81 ug/L	96
78) Chlorobenzene	10.647	112	24203	5.15 ug/L	98
79) 4-Chlorobenzotrifluoride	10.806	180	10578	5.82 ug/L	97
80) 1,1,1,2-Tetrachloroethane	10.775	131	7045	4.75 ug/L	94
81) Ethylbenzene	10.824	106	12456	5.33 ug/L	92
82) (m+p)Xylene	10.970	106	30376	10.81 ug/L	98
83) o-Xylene	11.415	106	15248	5.46 ug/L	97
84) Styrene	11.440	104	24382	5.05 ug/L	97
85) Bromoform	11.604	173	5165	4.55 ug/L	99
86) 2-Chlorobenzotrifluoride	11.750	180	11776	5.53 ug/L	97
87) Isopropylbenzene	11.854	105	37530	5.83 ug/L	98
88) Cyclohexanone	11.909	55	36772	114.90 ug/L	94
89) trans-1,4-Dichloro-2-B...	12.263	53	2740	4.70 ug/L	94
91) 1,1,2,2-Tetrachloroethane	12.202	83	12661	4.65 ug/L	93
92) Bromobenzene	12.128	156	9580	5.02 ug/L	95
93) 1,2,3-Trichloropropane	12.214	110	3961	5.22 ug/L #	71

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3058.D
Acq On : 10 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

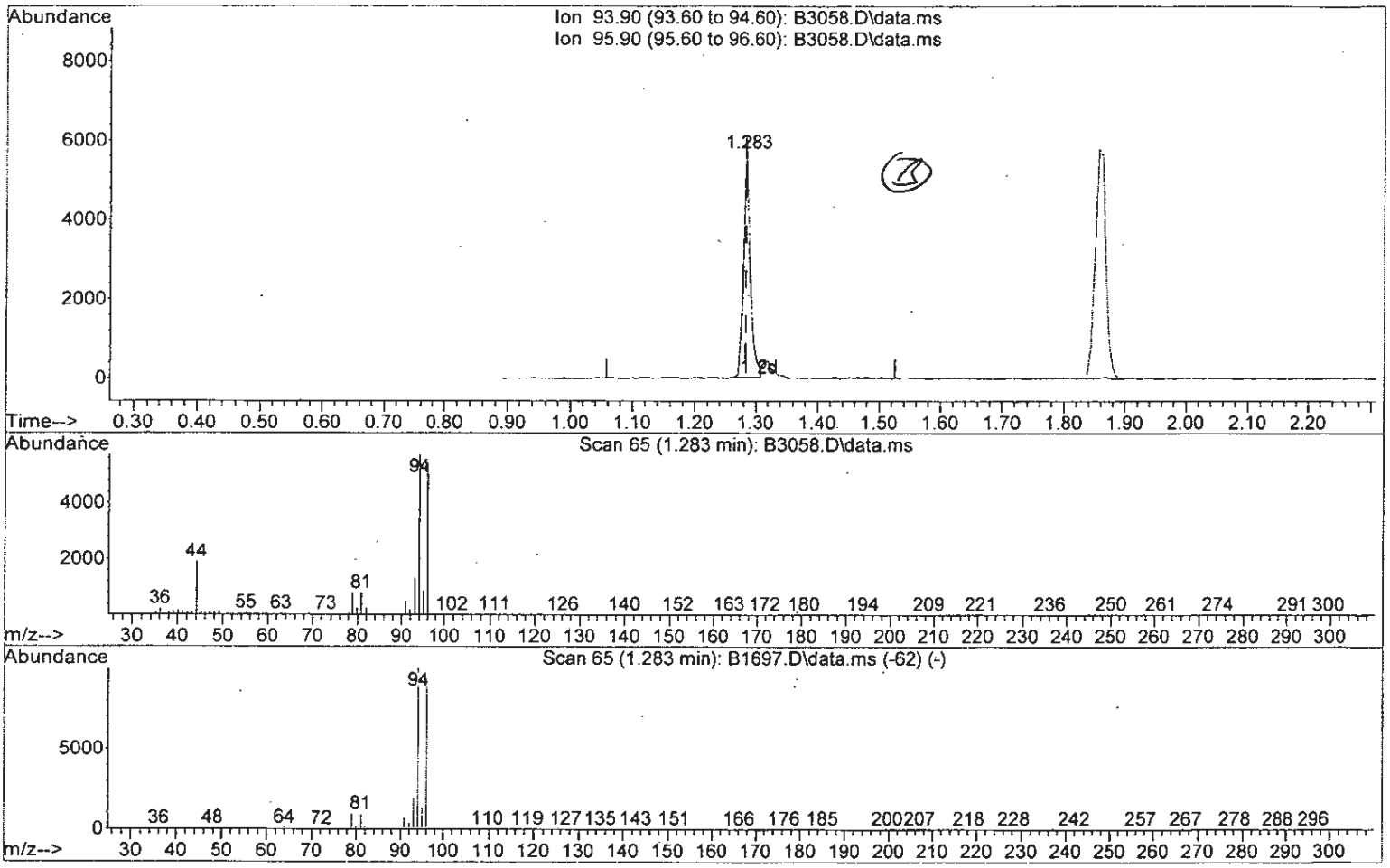
Quant Time: Sep 10 13:59:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	12.305	91	41638	5.67	ug/L	98
95)	2-Chlorotoluene	12.360	91	26705	5.78	ug/L	97
96)	3-Chlorotoluene	12.433	91	26828	5.46	ug/L	96
97)	4-Chlorotoluene	12.488	91	30540	5.65	ug/L	98
98)	1,3,5-Trimethylbenzene	12.513	105	29209	5.90	ug/L	99
99)	tert-Butylbenzene	12.848	119	24521	6.24	ug/L	97
100)	1,2,4-Trimethylbenzene	12.903	105	30011	5.95	ug/L	99
101)	3,4-Dichlorobenzotrifl...	13.000	214	8037	6.02	ug/L	98
102)	sec-Butylbenzene	13.086	105	34670	6.02	ug/L	97
103)	p-Isopropyltoluene	13.250	119	28211	5.85	ug/L	98
104)	1,3-Dclbenz	13.153	146	17621	5.36	ug/L	95
105)	1,4-Dclbenz	13.256	146	18469	5.49	ug/L	95
106)	2,4-Dichlorobenzotrifl...	13.366	214	7298	6.07	ug/L	96
107)	2,5-Dichlorobenzotrifl...	13.415	214	8027	5.81	ug/L	92
108)	n-Butylbenzene	13.671	91	24468	5.58	ug/L	98
109)	1,2-Dclbenz	13.628	146	17894	5.47	ug/L	99
110)	1,2-Dibromo-3-chloropr...	14.433	157	2320	4.50	ug/L	87
111)	Trielution Dichlorotol...	14.597	125	39788	17.47	ug/L	99
112)	1,3,5-Trichlorobenzene	14.658	180	11624	6.22	ug/L	97
113)	Coelution Dichlorotoluene	15.012	125	30465	11.74	ug/L	98
114)	1,2,4-Tcbenzene	15.280	180	10996	5.95	ug/L	96
115)	Hexachlorobt	15.481	225	3960	6.16	ug/L	88
116)	Naphthalen	15.512	128	35101	5.21	ug/L	100
117)	1,2,3-Tclbenzene	15.756	180	10781	5.90	ug/L	97
118)	2,4,5-Trichlorotoluene	16.530	159	5870	5.53	ug/L	97
119)	2,3,6-Trichlorotoluene	16.634	159	5673	6.13	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3058.D
Acq On : 10 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 13:58:51 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3058.D\data.ms

(5) Bromomethane (P)

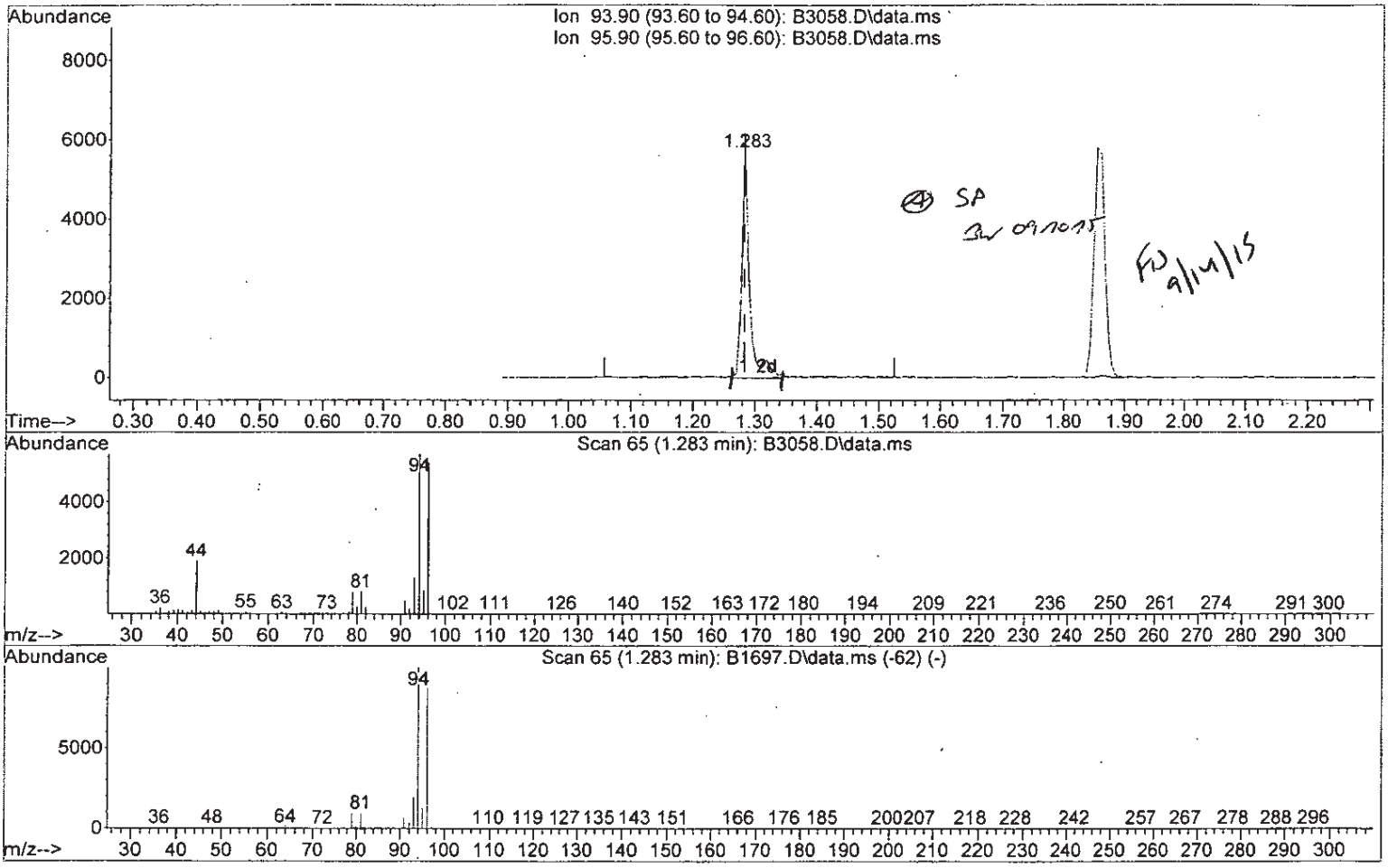
1.283min (-0.000) 2.62 ug/L

response 4232

Ion	Exp%	Act%
93.90	100	100
95.90	92.90	94.56
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3058.D
Acq On : 10 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 13:58:51 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3058.D\data.ms

(5) Bromomethane (P)

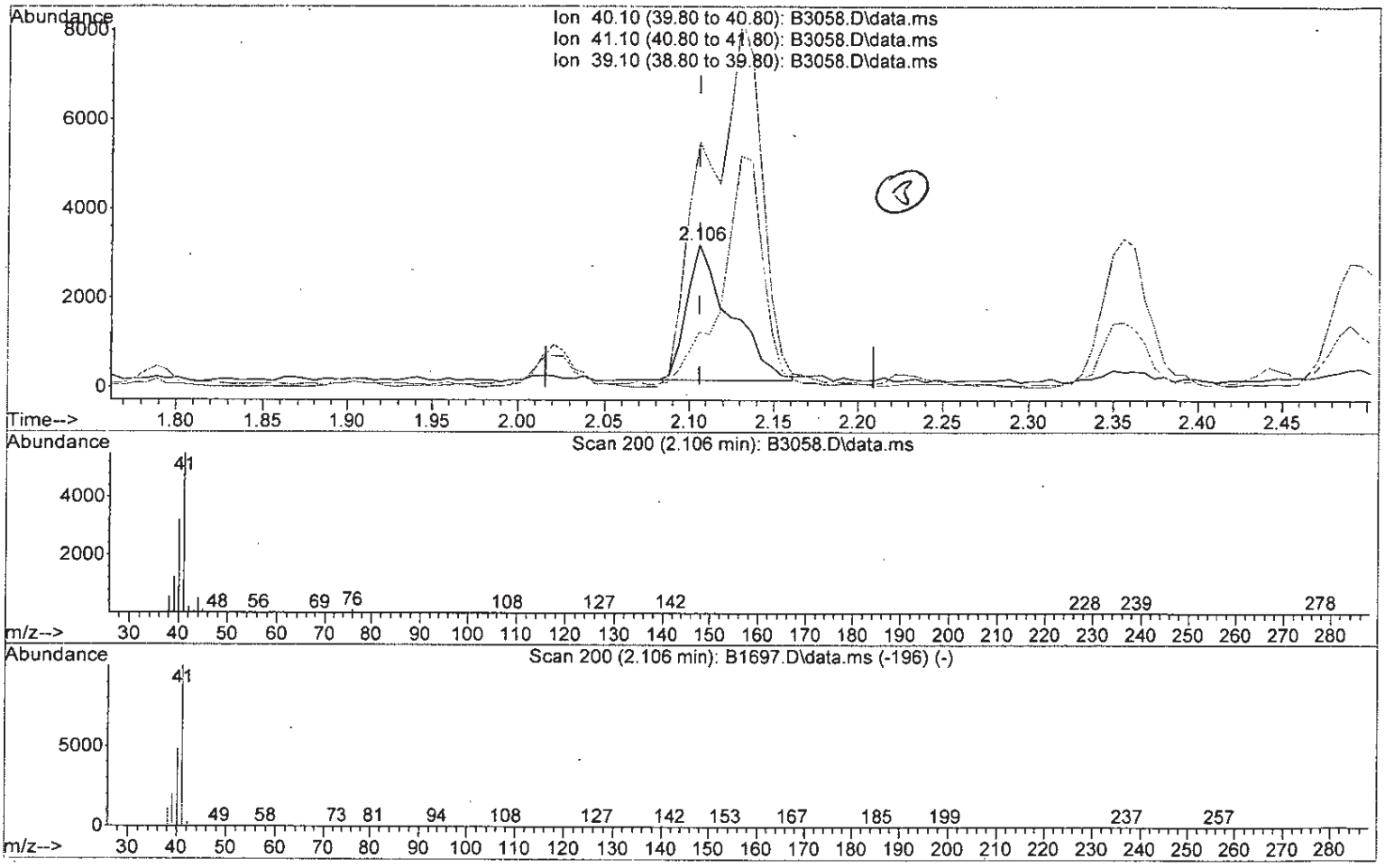
1.283min (-0.000) 2.98 ug/L m

response 4820

Ion	Exp%	Act%
93.90	100	100
95.90	92.90	94.56
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3058.D
Acq On : 10 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 13:58:51 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3058.D\data.ms

(19) Acetonitrile

2.106min (-0.000) 35.71 ug/L

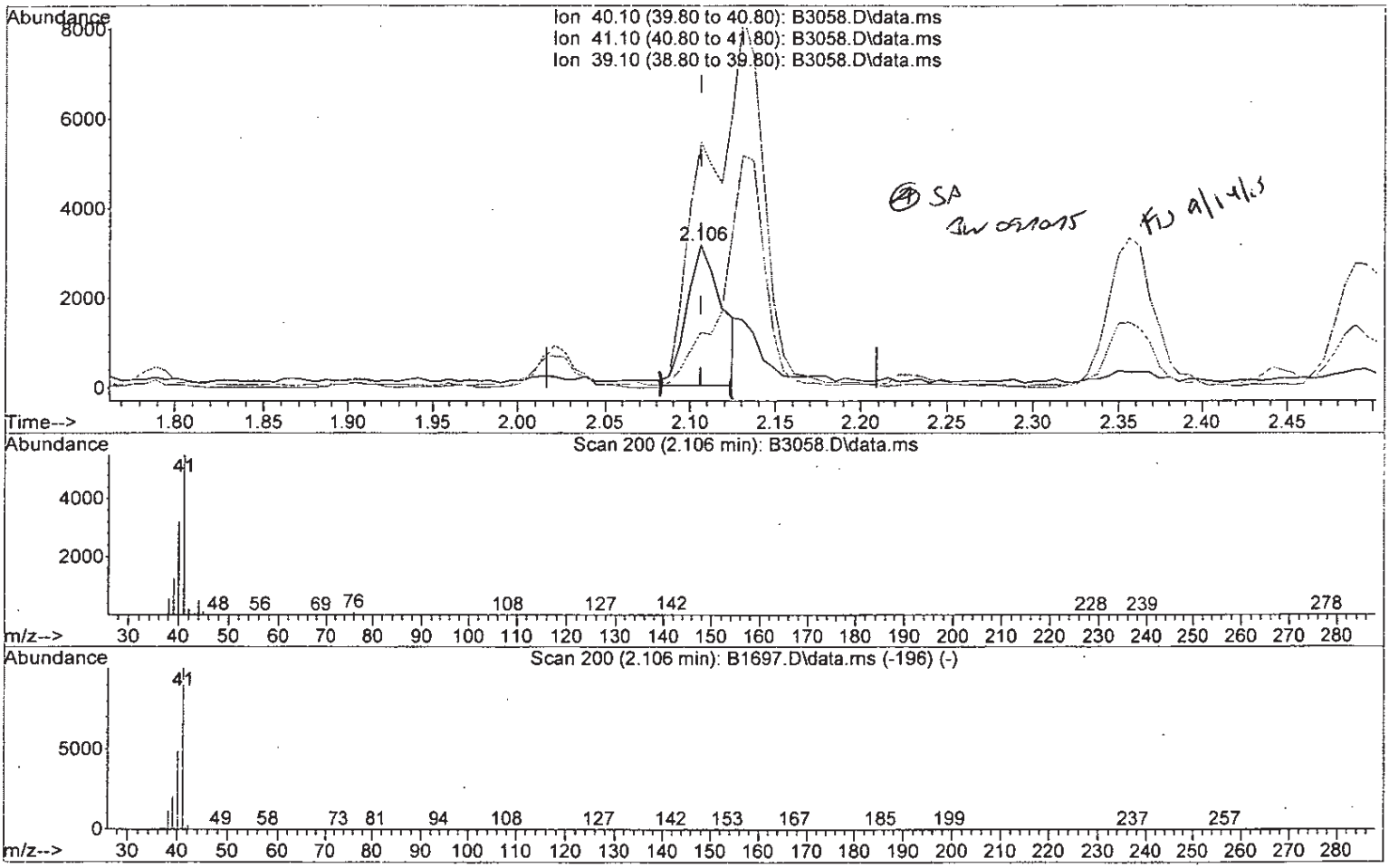
response 5426

Ion	Exp%	Act%
40.10	100	100
41.10	191.80	171.89
39.10	39.30	38.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3058.D
Acq On : 10 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 13:58:51 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3058.D\data.ms

(19) Acetonitrile

2.106min (-0.000) 29.26 ug/L m

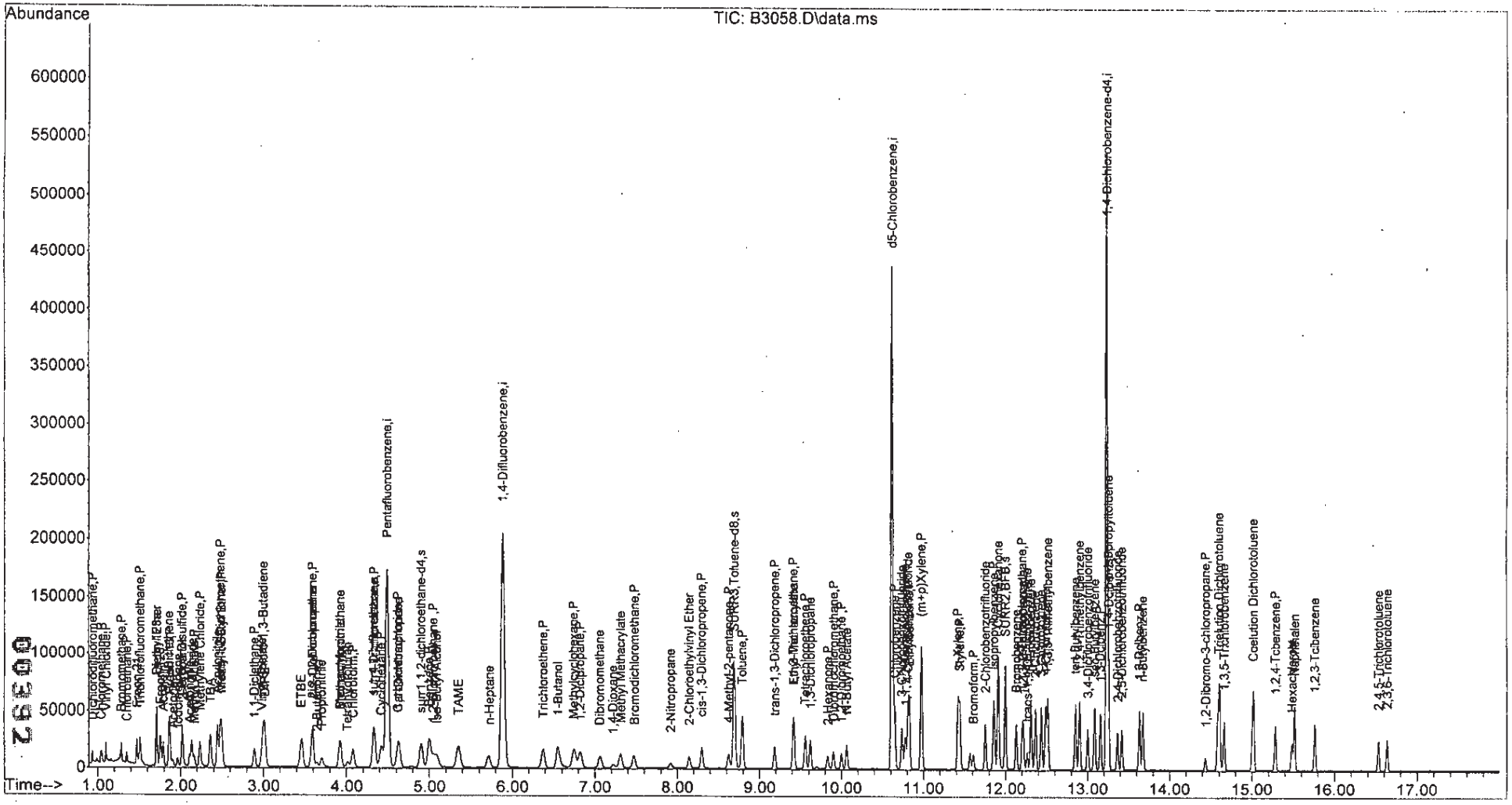
response 4446

Ion	Exp%	Act%
40.10	100	100
41.10	191.80	171.89
39.10	39.30	38.86
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3058.D
Acq On : 10 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : 5 ppb Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 13:59:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3059.D
Acq On : 10 Sep 2015 10:46 am
Operator : B Wojtasiewicz
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 14:01:09 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

BW 09/10/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	179457	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	270561	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.617	117	239245	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	119633	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	31411	18.68	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 37.36%#			
47) surr1,1,2-dichloroetha...	4.892	65	35980	19.08	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 38.16%#			
64) SURR3,Toluene-d8	8.690	98	123931	19.42	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 38.84%#			
69) SURR2,BFB	11.994	95	46093	20.40	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 40.80%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.936	85	30492	19.38	ug/L	97
3) Chloromethane	1.039	50	32813	21.10	ug/L	99
4) Vinyl Chloride	1.100	62	37481	19.62	ug/L	97
5) Bromomethane	1.283	94	23140	14.10	ug/L	99
6) Chloroethane	1.350	64	24324	18.63	ug/L	95
7) Freon 21	1.472	67	60550	17.38	ug/L	99
8) Trichlorofluoromethane	1.515	101	44996	17.77	ug/L	98
9) Diethyl Ether	1.710	59	32813	23.17	ug/L	93
10) Freon 123a	1.710	67	39128	19.70	ug/L	95
11) Freon 123	1.752	83	45779	19.34	ug/L	99
12) Acrolein	1.783	56	47774	108.86	ug/L	97
13) 1,1-Diclethene	1.862	96	30895	21.00	ug/L	94
14) Freon 113	1.868	101	30498	21.45	ug/L	94
15) Acetone	1.899	43	16946	18.56	ug/L	96
16) 2-Propanol	2.015	45	64503	458.47	ug/L	94
17) Iodomethane	1.966	142	30048	19.08	ug/L	96
18) Carbon Disulfide	2.015	76	80778	18.26	ug/L	99
19) Acetonitrile	2.100	40	18160	117.72	ug/L	91
20) Allyl Chloride	2.137	76	17866	20.33	ug/L #	83
21) Methyl Acetate	2.161	43	33463	21.28	ug/L	93
22) Methylene Chloride	2.234	84	37208	20.12	ug/L	96
23) TBA	2.350	59	112703	482.08	ug/L	92
24) Acrylonitrile	2.441	53	98699	109.81	ug/L	99
25) Methyl-t-Butyl Ether	2.490	73	113461	23.30	ug/L	99
26) trans-1,2-Dichloroethene	2.478	96	34592	19.51	ug/L	93
27) 1,1-Diclethane	2.886	63	59537	20.61	ug/L	98
28) Vinyl Acetate	2.972	86	8488	20.23	ug/L #	50
29) DIPE	3.008	45	108583	22.51	ug/L	95
30) 2-Chloro-1,3-Butadiene	2.990	53	53584	19.65	ug/L	99
31) ETBE	3.453	59	110410	24.54	ug/L	98
32) 2,2-Dichloropropane	3.581	77	46025	24.30	ug/L	98
33) cis-1,2-Dichloroethene	3.587	96	39683	19.40	ug/L	91
34) 2-Butanone	3.636	43	23587	20.55	ug/L	92
35) Propionitrile	3.691	54	39698	106.51	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3059.D
Acq On : 10 Sep 2015 10:46 am
Operator : B Wojtasiewicz
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 14:01:09 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	3.917	130	25642	19.91	ug/L		92
37) Methacrylonitrile	3.923	67	20313	20.96	ug/L	#	79
38) Tetrahydrofuran	4.002	42	14658	22.79	ug/L		96
39) Chloroform	4.075	83	63436	19.97	ug/L		98
40) 1,1,1-Trichloroethane	4.331	97	49759	21.00	ug/L		96
41) TAME	5.349	73	106084	24.14	ug/L		98
43) Cyclohexane	4.417	41	26620	22.40	ug/L		97
45) Carbontetrachloride	4.612	121	12007	21.91	ug/L		91
46) 1,1-Dichloropropene	4.630	75	44635	21.00	ug/L		98
48) Benzene	5.002	78	144528	21.20	ug/L		97
49) 1,2-Dichloroethane	5.051	62	49386	20.94	ug/L		95
50) Iso-Butyl Alcohol	5.081	43	46345	476.77	ug/L		93
51) n-Heptane	5.709	43	30471	27.86	ug/L		90
52) 1-Butanol	6.544	56	77072	1219.36	ug/L		96
53) Trichloroethene	6.367	130	36820	20.49	ug/L		98
54) Methylcyclohexane	6.745	55	35257	24.23	ug/L		89
55) 1,2-Diclpropane	6.819	63	36423	21.79	ug/L		99
56) Dibromomethane	7.056	93	24764	19.63	ug/L		99
57) 1,4-Dioxane	7.209	88	15746	439.41	ug/L		99
58) Methyl Methacrylate	7.306	69	30965	21.62	ug/L		95
59) Bromodichloromethane	7.471	83	44649	20.53	ug/L		98
60) 2-Nitropropane	7.916	41	14918	36.49	ug/L		90
61) 2-Chloroethylvinyl Ether	8.148	63	23561	19.92	ug/L		93
62) cis-1,3-Dichloropropene	8.294	75	54736	23.03	ug/L		95
63) 4-Methyl-2-pentanone	8.623	43	40491	21.45	ug/L		96
65) Toluene	8.788	91	155949	20.91	ug/L		97
66) trans-1,3-Dichloropropene	9.184	75	47258	22.09	ug/L		98
67) Ethyl Methacrylate	9.416	69	54315	22.77	ug/L		96
68) 1,1,2-Trichloroethane	9.410	97	36840	20.26	ug/L		98
71) Tetrachloroethene	9.556	164	27841	22.23	ug/L		91
72) 2-Hexanone	9.830	43	30847	21.27	ug/L		96
73) 1,3-Dichloropropane	9.617	76	62107	20.70	ug/L		95
74) Dibromochloromethane	9.903	129	33928	19.66	ug/L		98
75) N-Butyl Acetate	10.056	43	58813	22.39	ug/L		99
76) 1,2-Dibromoethane	9.995	107	36313	19.93	ug/L		99
77) 3-Chlorobenzotrifluoride	10.732	180	50567	23.80	ug/L		95
78) Chlorobenzene	10.647	112	100440	20.80	ug/L		98
79) 4-Chlorobenzotrifluoride	10.806	180	44992	24.07	ug/L		99
80) 1,1,1,2-Tetrachloroethane	10.775	131	31679	20.77	ug/L		96
81) Ethylbenzene	10.824	106	52672	21.93	ug/L		99
82) (m+p)Xylene	10.970	106	127489	44.11	ug/L		97
83) o-Xylene	11.415	106	63143	21.98	ug/L		91
84) Styrene	11.440	104	108106	21.77	ug/L		99
85) Bromoform	11.604	173	23380	20.00	ug/L		100
86) 2-Chlorobenzotrifluoride	11.751	180	49791	22.73	ug/L		98
87) Isopropylbenzene	11.854	105	155168	23.44	ug/L		99
88) Cyclohexanone	11.903	55	153748	467.08	ug/L		96
89) trans-1,4-Dichloro-2-B...	12.263	53	11915	19.85	ug/L		87
91) 1,1,2,2-Tetrachloroethane	12.202	83	54841	19.48	ug/L		99
92) Bromobenzene	12.129	156	40879	20.74	ug/L		97
93) 1,2,3-Trichloropropane	12.214	110	16522	21.06	ug/L	#	78

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3059.D
Acq On : 10 Sep 2015 10:46 am
Operator : B Wojtasiewicz
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 14:01:09 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

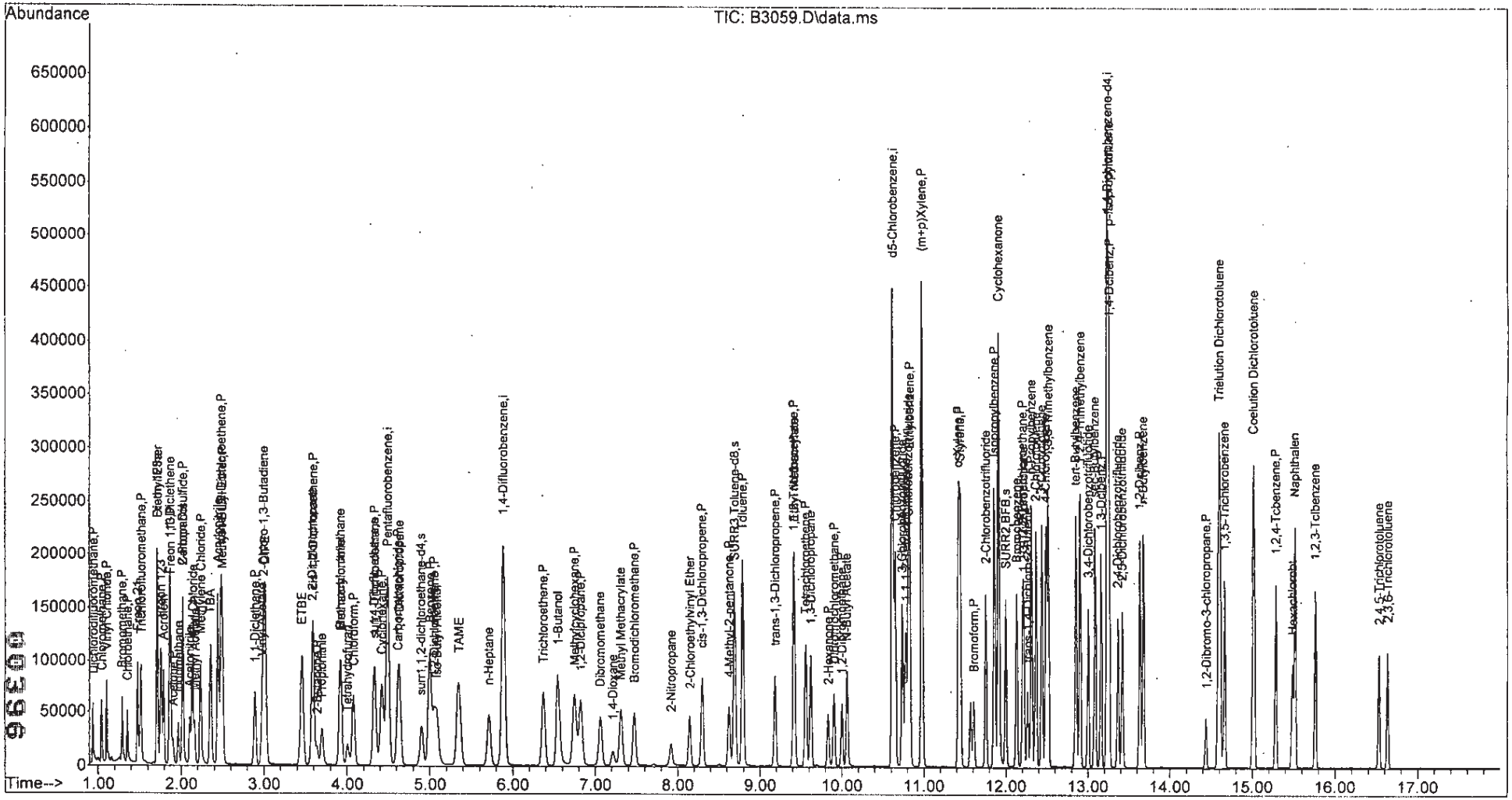
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	12.305	91	175742	23.13	ug/L	98
95)	2-Chlorotoluene	12.360	91	111264	23.30	ug/L	93
96)	3-Chlorotoluene	12.433	91	114975	22.62	ug/L	95
97)	4-Chlorotoluene	12.482	91	129658	23.22	ug/L	95
98)	1,3,5-Trimethylbenzene	12.513	105	125889	24.59	ug/L	99
99)	tert-Butylbenzene	12.848	119	101925	25.08	ug/L	98
100)	1,2,4-Trimethylbenzene	12.903	105	126956	24.36	ug/L	97
101)	3,4-Dichlorobenzotrifl...	13.000	214	33812	24.51	ug/L	99
102)	sec-Butylbenzene	13.080	105	145240	24.39	ug/L	99
103)	p-Isopropyltoluene	13.250	119	120197	24.11	ug/L	99
104)	1,3-Dclbenz	13.159	146	74621	21.97	ug/L	98
105)	1,4-Dclbenz	13.256	146	76411	21.95	ug/L	99
106)	2,4-Dichlorobenzotrifl...	13.360	214	30305	24.39	ug/L	98
107)	2,5-Dichlorobenzotrifl...	13.415	214	34867	24.42	ug/L	98
108)	n-Butylbenzene	13.671	91	107645	23.74	ug/L	98
109)	1,2-Dclbenz	13.628	146	74465	22.00	ug/L	97
110)	1,2-Dibromo-3-chloropr...	14.433	157	10397	19.50	ug/L	95
111)	Trielution Dichlorotol...	14.598	125	168851	71.72	ug/L	98
112)	1,3,5-Trichlorobenzene	14.659	180	46333	23.98	ug/L	96
113)	Coelution Dichlorotoluene	15.012	125	127241	47.42	ug/L	98
114)	1,2,4-Tcbenzene	15.280	180	45050	23.58	ug/L	97
115)	Hexachlorobt	15.482	225	16096	24.23	ug/L	94
116)	Naphthalen	15.512	128	152271	21.88	ug/L	99
117)	1,2,3-Tclbenzene	15.756	180	44833	23.72	ug/L	92
118)	2,4,5-Trichlorotoluene	16.530	159	25142	22.92	ug/L	98
119)	2,3,6-Trichlorotoluene	16.634	159	22812	23.85	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3059.D
Acq On : 10 Sep 2015 10:46 am
Operator : B Wojtasiewicz
Sample : 20 ppb Inst : MSVOA14
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 14:01:09 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3060.D
Acq On : 10 Sep 2015 11:11 am
Operator : B Wojtasiewicz
Sample : 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 10 14:02:44 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

BW 09/10/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	169665	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	256563	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.617	117	227082	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	115433	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.331	113	82451	51.71	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.42%			
47) surr1,1,2-dichloroetha...	4.898	65	94300	52.75	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 105.50%			
64) SURR3,Toluene-d8	8.690	98	321460	53.12	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.24%			
69) SURR2,BFB	11.994	95	122382	57.11	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 114.22%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.936	85	76270	51.27	ug/L	95
3) Chloromethane	1.039	50	81293	55.30	ug/L	100
4) Vinyl Chloride	1.100	62	91411	50.62	ug/L	96
5) Bromomethane	1.283	94	50973	32.84	ug/L	97
6) Chloroethane	1.350	64	59344	48.07	ug/L	97
7) Freon 21	1.472	67	153217	46.52	ug/L	96
8) Trichlorofluoromethane	1.509	101	110801	46.28	ug/L	98
9) Diethyl Ether	1.710	59	77832	58.14	ug/L	93
10) Freon 123a	1.710	67	96311	51.28	ug/L	97
11) Freon 123	1.752	83	117057	52.31	ug/L	98
12) Acrolein	1.789	56	112041	270.04	ug/L	99
13) 1,1-Diclethene	1.862	96	74923	53.87	ug/L	96
14) Freon 113	1.868	101	77752	57.85	ug/L	99
15) Acetone	1.899	43	37741	43.73	ug/L	96
16) 2-Propanol	2.021	45	154642	1162.58	ug/L	93
17) Iodomethane	1.966	142	89166	59.90	ug/L	96
18) Carbon Disulfide	2.015	76	206966	49.48	ug/L	100
19) Acetonitrile	2.100	40	42190	289.27	ug/L	99
20) Allyl Chloride	2.137	76	44271	53.28	ug/L #	84
21) Methyl Acetate	2.161	43	79841	53.70	ug/L	95
22) Methylene Chloride	2.234	84	89567	51.24	ug/L	93
23) TBA	2.356	59	269186	1217.89	ug/L	90
24) Acrylonitrile	2.441	53	229732	270.35	ug/L	96
25) Methyl-t-Butyl Ether	2.490	73	274328	59.58	ug/L	99
26) trans-1,2-Dichloroethene	2.478	96	84016	50.12	ug/L	94
27) 1,1-Diclethane	2.886	63	145222	53.18	ug/L	99
28) Vinyl Acetate	2.978	86	21932	55.29	ug/L #	61
29) DIPE	3.008	45	256953	56.34	ug/L	95
30) 2-Chloro-1,3-Butadiene	2.996	53	136861	53.08	ug/L	99
31) ETBE	3.453	59	260520	61.24	ug/L	97
32) 2,2-Dichloropropane	3.581	77	114003	63.67	ug/L	97
33) cis-1,2-Dichloroethene	3.587	96	95644	49.47	ug/L	86
34) 2-Butanone	3.636	43	53402	49.20	ug/L	95
35) Propionitrile	3.697	54	93149	264.35	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3060.D
Acq On : 10 Sep 2015 11:11 am
Operator : B Wojtasiewicz
Sample : 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 10 14:02:44 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	3.917	130	60931	50.05	ug/L		93
37) Methacrylonitrile	3.923	67	48352	52.76	ug/L	#	72
38) Tetrahydrofuran	4.002	42	34318	56.43	ug/L		97
39) Chloroform	4.075	83	152451	50.76	ug/L		99
40) 1,1,1-Trichloroethane	4.331	97	124131	55.41	ug/L		97
41) TAME	5.349	73	252112	60.69	ug/L		98
43) Cyclohexane	4.417	41	66938	59.39	ug/L		89
45) Carbontetrachloride	4.618	121	30784	59.23	ug/L		90
46) 1,1-Dichloropropene	4.630	75	108594	53.89	ug/L		99
48) Benzene	4.996	78	348794	53.96	ug/L		95
49) 1,2-Dichloroethane	5.044	62	118177	52.83	ug/L		95
50) Iso-Butyl Alcohol	5.087	43	112593	1221.49	ug/L		94
51) n-Heptane	5.715	43	74361	71.69	ug/L		90
52) 1-Butanol	6.550	56	192891	3218.23	ug/L		97
53) Trichloroethene	6.367	130	90238	52.95	ug/L		96
54) Methylcyclohexane	6.751	55	91214	66.10	ug/L	#	85
55) 1,2-Diclpropane	6.825	63	88136	55.59	ug/L		96
56) Dibromomethane	7.056	93	58905	49.25	ug/L		99
57) 1,4-Dioxane	7.209	88	36912	1086.26	ug/L		94
58) Methyl Methacrylate	7.306	69	76720	56.50	ug/L		95
59) Bromodichloromethane	7.471	83	110776	53.72	ug/L		98
60) 2-Nitropropane	7.916	41	39778	102.62	ug/L		85
61) 2-Chloroethylvinyl Ether	8.141	63	58690	52.33	ug/L		92
62) cis-1,3-Dichloropropene	8.294	75	134831	59.82	ug/L		96
63) 4-Methyl-2-pentanone	8.623	43	96977	54.19	ug/L		99
65) Toluene	8.788	91	377609	53.39	ug/L		97
66) trans-1,3-Dichloropropene	9.184	75	121919	60.11	ug/L		97
67) Ethyl Methacrylate	9.416	69	132588	58.61	ug/L		94
68) 1,1,2-Trichloroethane	9.409	97	89615	51.98	ug/L		98
71) Tetrachloroethene	9.556	164	69376	58.36	ug/L		94
72) 2-Hexanone	9.830	43	74104	53.84	ug/L		98
73) 1,3-Dichloropropane	9.617	76	149091	52.35	ug/L		95
74) Dibromochloromethane	9.903	129	87157	53.20	ug/L		96
75) N-Butyl Acetate	10.062	43	142939	57.34	ug/L		99
76) 1,2-Dibromoethane	9.995	107	89265	51.61	ug/L		100
77) 3-Chlorobenzotrifluoride	10.732	180	122507	60.76	ug/L		97
78) Chlorobenzene	10.647	112	242656	52.93	ug/L		97
79) 4-Chlorobenzotrifluoride	10.806	180	109982	62.00	ug/L		99
80) 1,1,1,2-Tetrachloroethane	10.775	131	78381	54.15	ug/L		96
81) Ethylbenzene	10.824	106	127411	55.88	ug/L		91
82) (m+p)Xylene	10.970	106	309236	112.72	ug/L		96
83) o-Xylene	11.415	106	155088	56.88	ug/L		96
84) Styrene	11.440	104	267291	56.71	ug/L		96
85) Bromoform	11.604	173	59305	53.46	ug/L		100
86) 2-Chlorobenzotrifluoride	11.751	180	120450	57.94	ug/L		95
87) Isopropylbenzene	11.854	105	378948	60.31	ug/L		98
88) Cyclohexanone	11.909	55	363179	1162.43	ug/L		94
89) trans-1,4-Dichloro-2-B...	12.263	53	30916	54.27	ug/L		83
91) 1,1,2,2-Tetrachloroethane	12.202	83	130158	47.91	ug/L		99
92) Bromobenzene	12.128	156	100443	52.82	ug/L		98
93) 1,2,3-Trichloropropane	12.214	110	38931	51.42	ug/L	#	83

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3060.D
Acq On : 10 Sep 2015 11:11 am
Operator : B Wojtasiewicz
Sample : 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 10 14:02:44 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

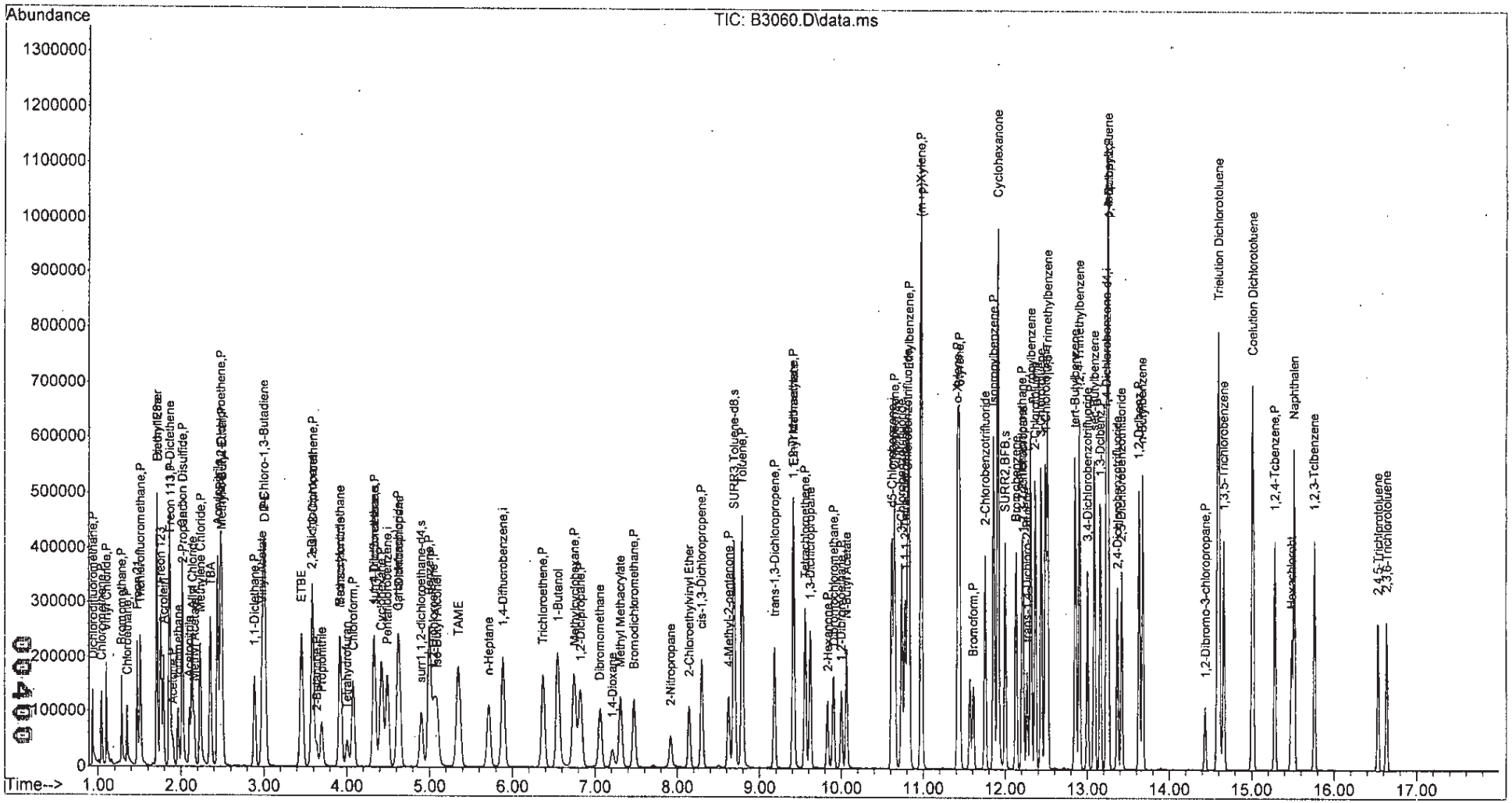
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) n-Propylbenzene	12.311	91	432307	58.98 ug/L	99
95) 2-Chlorotoluene	12.360	91	269691	58.53 ug/L	93
96) 3-Chlorotoluene	12.433	91	274656	56.01 ug/L	95
97) 4-Chlorotoluene	12.488	91	316247	58.70 ug/L	98
98) 1,3,5-Trimethylbenzene	12.513	105	308855	62.54 ug/L	100
99) tert-Butylbenzene	12.848	119	250618	63.92 ug/L	98
100) 1,2,4-Trimethylbenzene	12.903	105	314428	62.53 ug/L	99
101) 3,4-Dichlorobenzotrifl...	13.000	214	82393	61.89 ug/L	98
102) sec-Butylbenzene	13.086	105	357047	62.13 ug/L	99
103) p-Isopropyltoluene	13.250	119	294703	61.28 ug/L	99
104) 1,3-Dclbenz	13.159	146	181997	55.53 ug/L	98
105) 1,4-Dclbenz	13.256	146	186898	55.65 ug/L	98
106) 2,4-Dichlorobenzotrifl...	13.366	214	74213	61.90 ug/L	96
107) 2,5-Dichlorobenzotrifl...	13.415	214	85562	62.10 ug/L	100
108) n-Butylbenzene	13.671	91	267127	61.06 ug/L	99
109) 1,2-Dclbenz	13.628	146	182638	55.93 ug/L	100
110) 1,2-Dibromo-3-chloropr...	14.433	157	26735	51.97 ug/L	91
111) Trielution Dichlorotol...	14.598	125	420029	184.89 ug/L	99
112) 1,3,5-Trichlorobenzene	14.658	180	115758	62.09 ug/L	96
113) Coelution Dichlorotoluene	15.012	125	316809	122.36 ug/L	97
114) 1,2,4-Tcbenzene	15.280	180	116049	62.95 ug/L	97
115) Hexachlorobt	15.481	225	40762	63.59 ug/L	99
116) Naphthalen	15.512	128	382173	56.90 ug/L	99
117) 1,2,3-Tclbenzene	15.756	180	113269	62.11 ug/L	98
118) 2,4,5-Trichlorotoluene	16.530	159	65153	61.57 ug/L	98
119) 2,3,6-Trichlorotoluene	16.634	159	58882	63.79 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3060.D
Acq On : 10 Sep 2015 11:11 am
Operator : B Wojtasiewicz
Sample : 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 10 14:02:44 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3061.D
Acq On : 10 Sep 2015 11:35 am
Operator : B Wojtasiewicz
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 10 14:10:09 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M BW 091015
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	173982	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	265100	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.617	117	237104	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	122205	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	170638	103.58	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 207.16%#			
47) surr1,1,2-dichloroetha...	4.898	65	192975	104.46	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 208.92%#			
64) SURR3,Toluene-d8	8.690	98	657567	105.16	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 210.32%#			
69) SURR2,BFB	11.994	95	251872	113.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 227.50%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.929	85	146828	96.25	ug/L	95
3) Chloromethane	1.039	50	157802	104.68	ug/L	100
4) Vinyl Chloride	1.100	62	174684	94.34	ug/L	99
5) Bromomethane	1.283	94	50675	31.84	ug/L	98
6) Chloroethane	1.344	64	114015m	90.07	ug/L	
7) Freon 21	1.472	67	303275	89.80	ug/L	96
8) Trichlorofluoromethane	1.509	101	205136	83.56	ug/L	98
9) Diethyl Ether	1.710	59	153418	111.75	ug/L	92
10) Freon 123a	1.710	67	191732	99.56	ug/L	97
11) Freon 123	1.753	83	233095	101.59	ug/L	96
12) Acrolein	1.789	56	229383	539.14	ug/L	99
13) 1,1-Diclethene	1.856	96	144535	101.33	ug/L	90
14) Freon 113	1.868	101	145170	105.34	ug/L	95
15) Acetone	1.899	43	76782	86.75	ug/L	96
16) 2-Propanol	2.027	45	349443	2561.88	ug/L	91
17) Iodomethane	1.960	142	185482	121.50	ug/L	100
18) Carbon Disulfide	2.015	76	422624	98.54	ug/L	100
19) Acetonitrile	2.106	40	89083m	595.63	ug/L	
20) Allyl Chloride	2.130	76	87038	102.15	ug/L #	78
21) Methyl Acetate	2.161	43	164624	107.97	ug/L	94
22) Methylene Chloride	2.228	84	177199	98.86	ug/L	92
23) TBA	2.362	59	594105	2621.24	ug/L	88
24) Acrylonitrile	2.441	53	473976	543.93	ug/L	96
25) Methyl-t-Butyl Ether	2.490	73	546372	115.73	ug/L	98
26) trans-1,2-Dichloroethene	2.478	96	164403	95.65	ug/L	95
27) 1,1-Diclethane	2.886	63	283639	101.30	ug/L	99
28) Vinyl Acetate	2.978	86	44826	110.20	ug/L #	67
29) DIPE	3.014	45	503390	107.63	ug/L	94
30) 2-Chloro-1,3-Butadiene	2.990	53	273233	103.33	ug/L	98
31) ETBE	3.453	59	518320	118.82	ug/L	98
32) 2,2-Dichloropropane	3.581	77	224832	122.45	ug/L	97
33) cis-1,2-Dichloroethene	3.588	96	188542	95.09	ug/L	86
34) 2-Butanone	3.636	43	110443	99.23	ug/L	93
35) Propionitrile	3.697	54	197326	546.10	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3061.D
Acq On : 10 Sep 2015 11:35 am
Operator : B Wojtasiewicz
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 10 14:10:09 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	3.917	130	117264	93.93	ug/L		92
37) Methacrylonitrile	3.923	67	98688	105.01	ug/L	#	70
38) Tetrahydrofuran	4.002	42	69161	110.91	ug/L		95
39) Chloroform	4.075	83	298123	96.79	ug/L		100
40) 1,1,1-Trichloroethane	4.331	97	242533	105.58	ug/L		97
41) TAME	5.349	73	505712	118.71	ug/L		98
43) Cyclohexane	4.417	41	132619	113.88	ug/L		92
45) Carbontetrachloride	4.612	121	59750	111.26	ug/L		86
46) 1,1-Dichloropropene	4.630	75	212245	101.93	ug/L		97
48) Benzene	5.002	78	680873	101.94	ug/L		96
49) 1,2-Dichloroethane	5.051	62	232269	100.49	ug/L		94
50) Iso-Butyl Alcohol	5.093	43	252959	2655.91	ug/L		96
51) n-Heptane	5.715	43	136572	127.42	ug/L		90
52) 1-Butanol	6.563	56	453764	7326.90	ug/L		99
53) Trichloroethene	6.367	130	176381	100.17	ug/L		97
54) Methylcyclohexane	6.745	55	183485	128.69	ug/L		89
55) 1,2-Diclpropane	6.825	63	174094	106.28	ug/L		99
56) Dibromomethane	7.062	93	119346	96.57	ug/L		99
57) 1,4-Dioxane	7.209	88	80185	2283.73	ug/L		93
58) Methyl Methacrylate	7.306	69	159998	114.03	ug/L		94
59) Bromodichloromethane	7.471	83	223954	105.10	ug/L		98
60) 2-Nitropropane	7.916	41	90733	226.53	ug/L		84
61) 2-Chloroethylvinyl Ether	8.142	63	123107	106.24	ug/L		93
62) cis-1,3-Dichloropropene	8.294	75	275658	118.36	ug/L		96
63) 4-Methyl-2-pentanone	8.623	43	205820	111.30	ug/L		98
65) Toluene	8.788	91	730033	99.90	ug/L		94
66) trans-1,3-Dichloropropene	9.184	75	249783	119.19	ug/L		97
67) Ethyl Methacrylate	9.416	69	277830	118.86	ug/L		94
68) 1,1,2-Trichloroethane	9.410	97	176431	99.05	ug/L		98
71) Tetrachloroethene	9.556	164	132511	106.75	ug/L		93
72) 2-Hexanone	9.830	43	159403	110.91	ug/L		99
73) 1,3-Dichloropropane	9.617	76	293686	98.76	ug/L		95
74) Dibromochloromethane	9.903	129	181265	105.96	ug/L		98
75) N-Butyl Acetate	10.062	43	304693	117.07	ug/L		99
76) 1,2-Dibromoethane	9.995	107	183475	101.59	ug/L		99
77) 3-Chlorobenzotrifluoride	10.732	180	244459	116.11	ug/L		95
78) Chlorobenzene	10.647	112	471801	98.57	ug/L		98
79) 4-Chlorobenzotrifluoride	10.806	180	220110	118.83	ug/L		99
80) 1,1,1,2-Tetrachloroethane	10.775	131	161179	106.64	ug/L		99
81) Ethylbenzene	10.824	106	247421	103.93	ug/L		91
82) (m+p)Xylene	10.976	106	600290	209.56	ug/L		99
83) o-Xylene	11.421	106	296910	104.29	ug/L		93
84) Styrene	11.440	104	526222	106.93	ug/L		97
85) Bromoform	11.604	173	130179	112.39	ug/L		99
86) 2-Chlorobenzotrifluoride	11.751	180	242546	111.74	ug/L		95
87) Isopropylbenzene	11.860	105	726319	110.72	ug/L		99
88) Cyclohexanone	11.909	55	778390	2386.09	ug/L		96
89) trans-1,4-Dichloro-2-B...	12.263	53	64478	108.40	ug/L		78
91) 1,1,2,2-Tetrachloroethane	12.202	83	268845	93.47	ug/L		98
92) Bromobenzene	12.129	156	195195	96.95	ug/L		97
93) 1,2,3-Trichloropropane	12.214	110	80047	99.87	ug/L	#	79

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3061.D
Acq On : 10 Sep 2015 11:35 am
Operator : B Wojtasiewicz
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 8 Sample Multiplier: 1

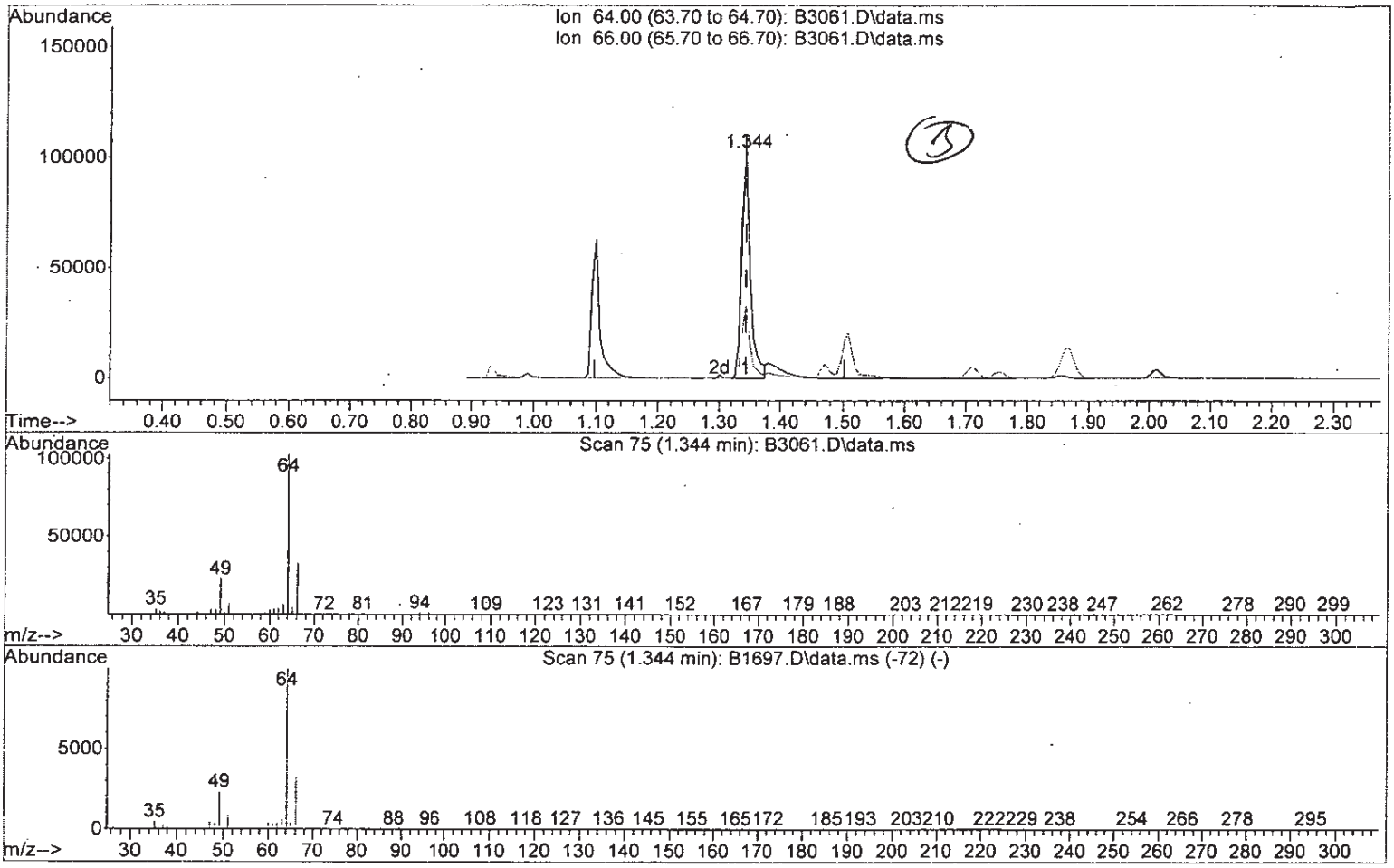
Quant Time: Sep 10 14:10:09 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	12.311	91	822070	105.94	ug/L	99
95)	2-Chlorotoluene	12.366	91	527718	108.19	ug/L	96
96)	3-Chlorotoluene	12.433	91	556991	107.30	ug/L	95
97)	4-Chlorotoluene	12.488	91	613230	107.52	ug/L	97
98)	1,3,5-Trimethylbenzene	12.513	105	591423	113.11	ug/L	99
99)	tert-Butylbenzene	12.848	119	481420	115.98	ug/L	97
100)	1,2,4-Trimethylbenzene	12.903	105	609103	114.41	ug/L	100
101)	3,4-Dichlorobenzotrifl...	13.000	214	166889	118.42	ug/L	99
102)	sec-Butylbenzene	13.086	105	676000	111.11	ug/L	99
103)	p-Isopropyltoluene	13.250	119	558750	109.74	ug/L	99
104)	1,3-Dclbenz	13.159	146	357300	102.97	ug/L	98
105)	1,4-Dclbenz	13.256	146	364703	102.58	ug/L	98
106)	2,4-Dichlorobenzotrifl...	13.366	214	151950	119.71	ug/L	98
107)	2,5-Dichlorobenzotrifl...	13.421	214	172752	118.43	ug/L	96
108)	n-Butylbenzene	13.671	91	511289	110.40	ug/L	99
109)	1,2-Dclbenz	13.628	146	362249	104.79	ug/L	99
110)	1,2-Dibromo-3-chloropr...	14.433	157	60107	110.37	ug/L	92
111)	Trielution Dichlorotol...	14.604	125	867191	360.58	ug/L	99
112)	1,3,5-Trichlorobenzene	14.659	180	240804	122.01	ug/L	98
113)	Coelution Dichlorotoluene	15.012	125	668980	244.06	ug/L	99
114)	1,2,4-Tcbenzene	15.280	180	233928	119.86	ug/L	99
115)	Hexachlorobt	15.482	225	80272	118.30	ug/L	97
116)	Naphthalen	15.512	128	807173	113.52	ug/L	99
117)	1,2,3-Tclbenzene	15.756	180	231298	119.79	ug/L	98
118)	2,4,5-Trichlorotoluene	16.530	159	144918	129.35	ug/L	97
119)	2,3,6-Trichlorotoluene	16.634	159	128579	131.58	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3061.D
Acq On : 10 Sep 2015 11:35 am
Operator : B Wojtasiewicz
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 10 14:04:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3061.D\data.ms

(6) Chloroethane (P)

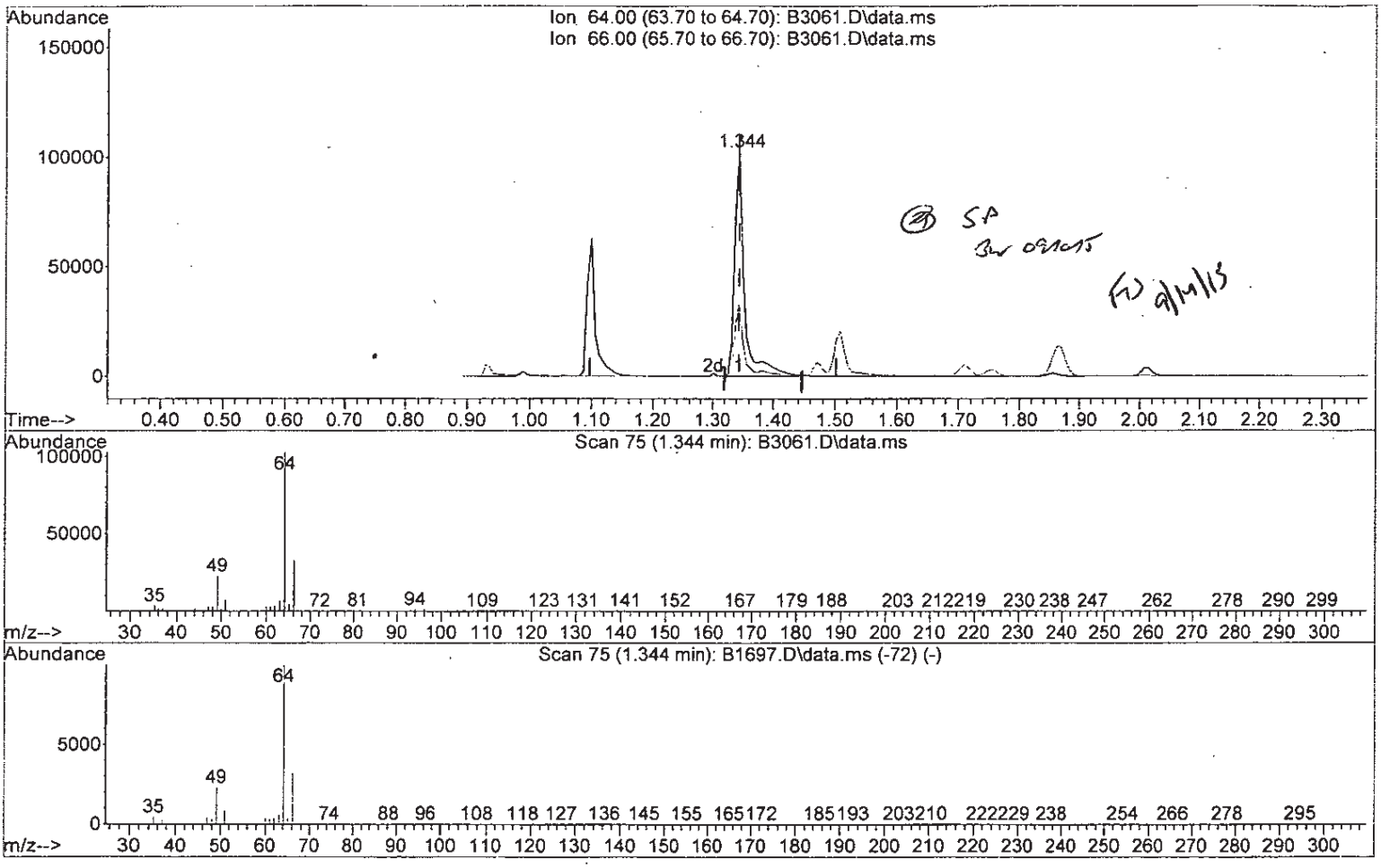
1.344min (-0.000) 80.30 ug/L

response 101649

Ion	Exp%	Act%
64.00	100	100
66.00	33.40	31.88
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3061.D
Acq On : 10 Sep 2015 11:35 am
Operator : B Wojtasiewicz
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 10 14:04:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3061.D\data.ms

(6) Chloroethane (P)

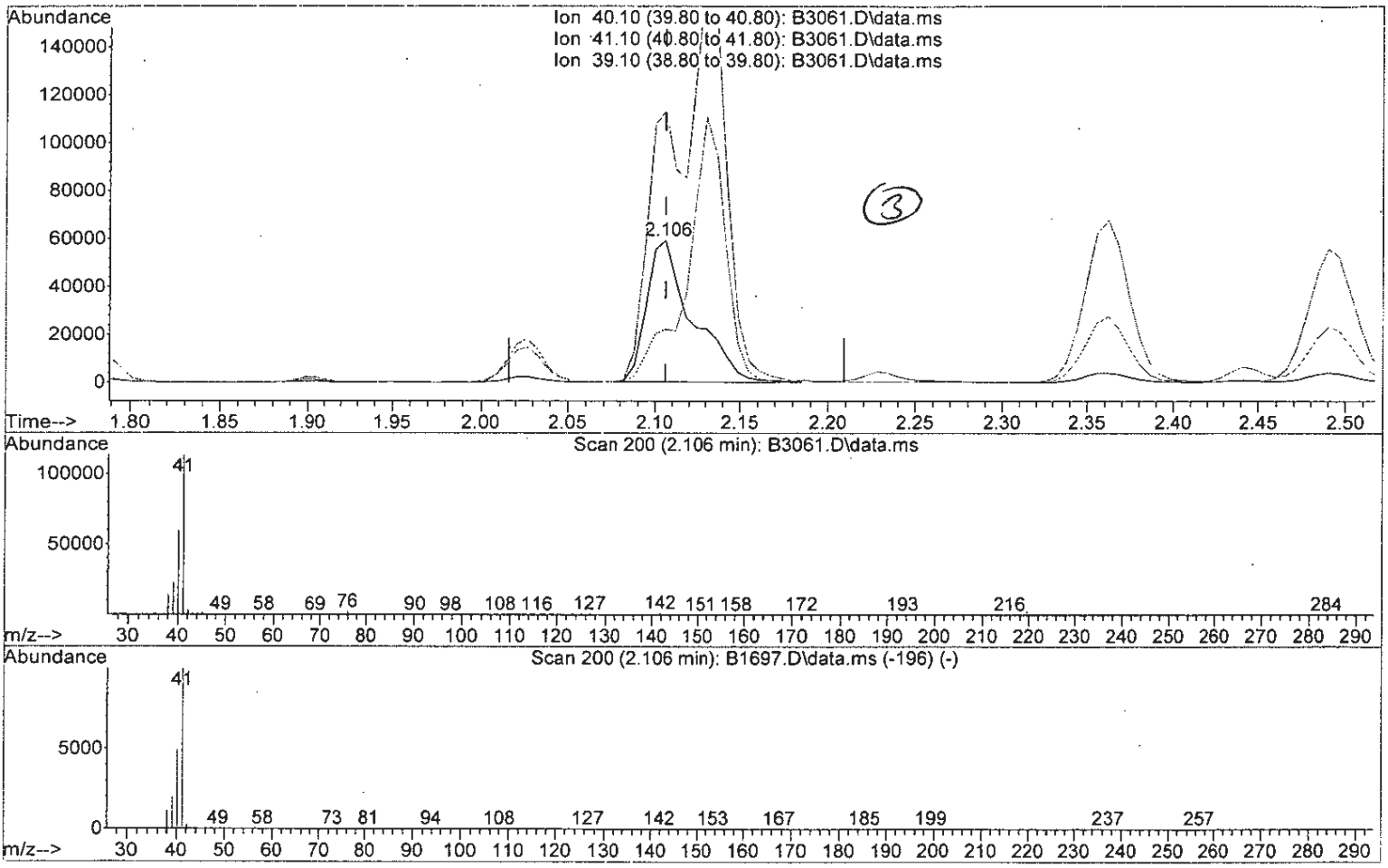
1.344min (-0.000) 90.07 ug/L m

response 114015

Ion	Exp%	Act%
64.00	100	100
66.00	33.40	31.88
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3061.D
Acq On : 10 Sep 2015 11:35 am
Operator : B Wojtasiewicz
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 10 14:04:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3061.D\data.ms

(19) Acetonitrile

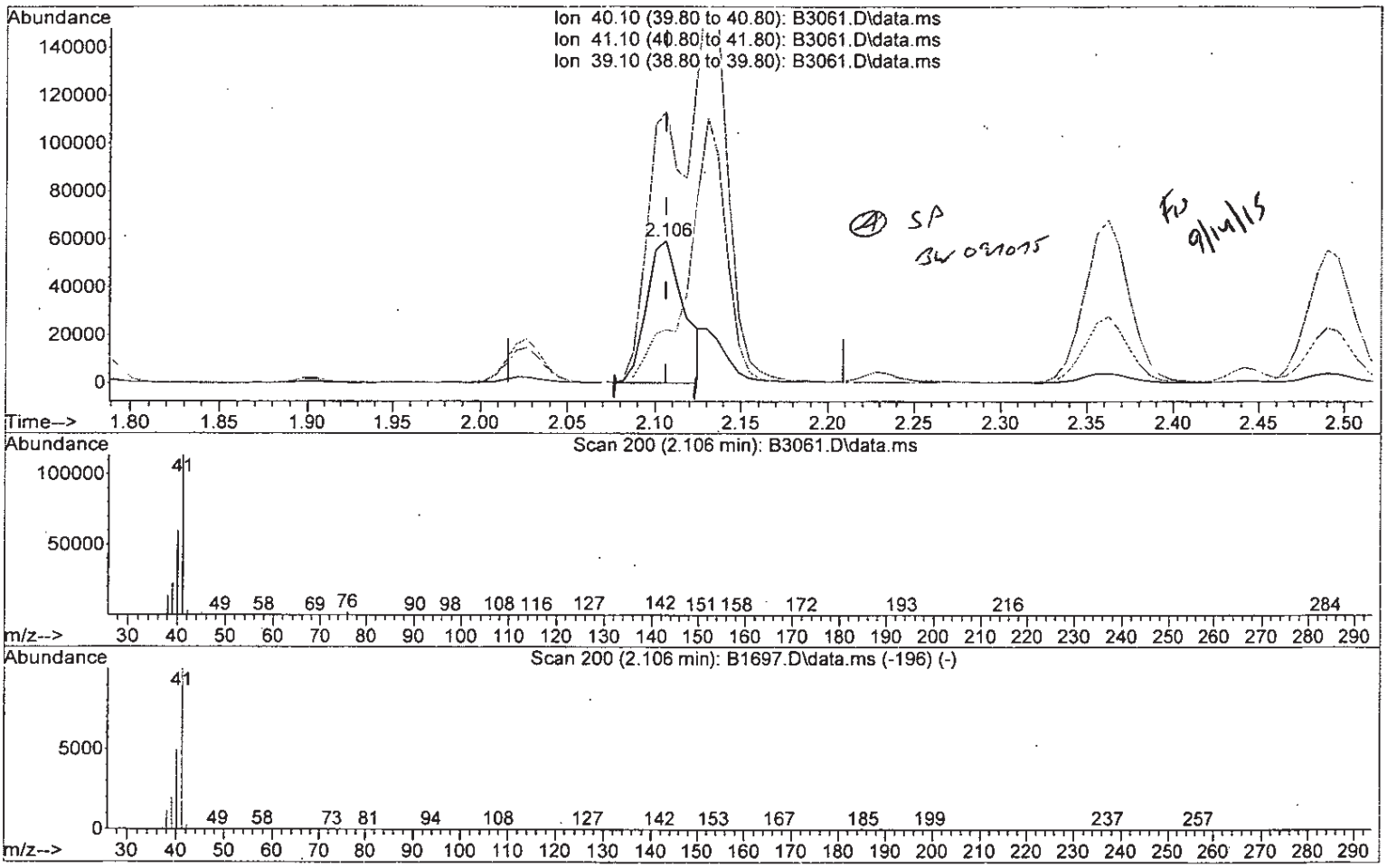
2.106min (-0.000) 733.94 ug/L

response 109769

Ion	Exp%	Act%
40.10	100	100
41.10	191.80	191.27
39.10	39.30	37.46
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3061.D
Acq On : 10 Sep 2015 11:35 am
Operator : B Wojtasiewicz
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 10 14:04:01 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3061.D\data.ms

(19) Acetonitrile

2.106min (-0.000) 595.63 ug/L m

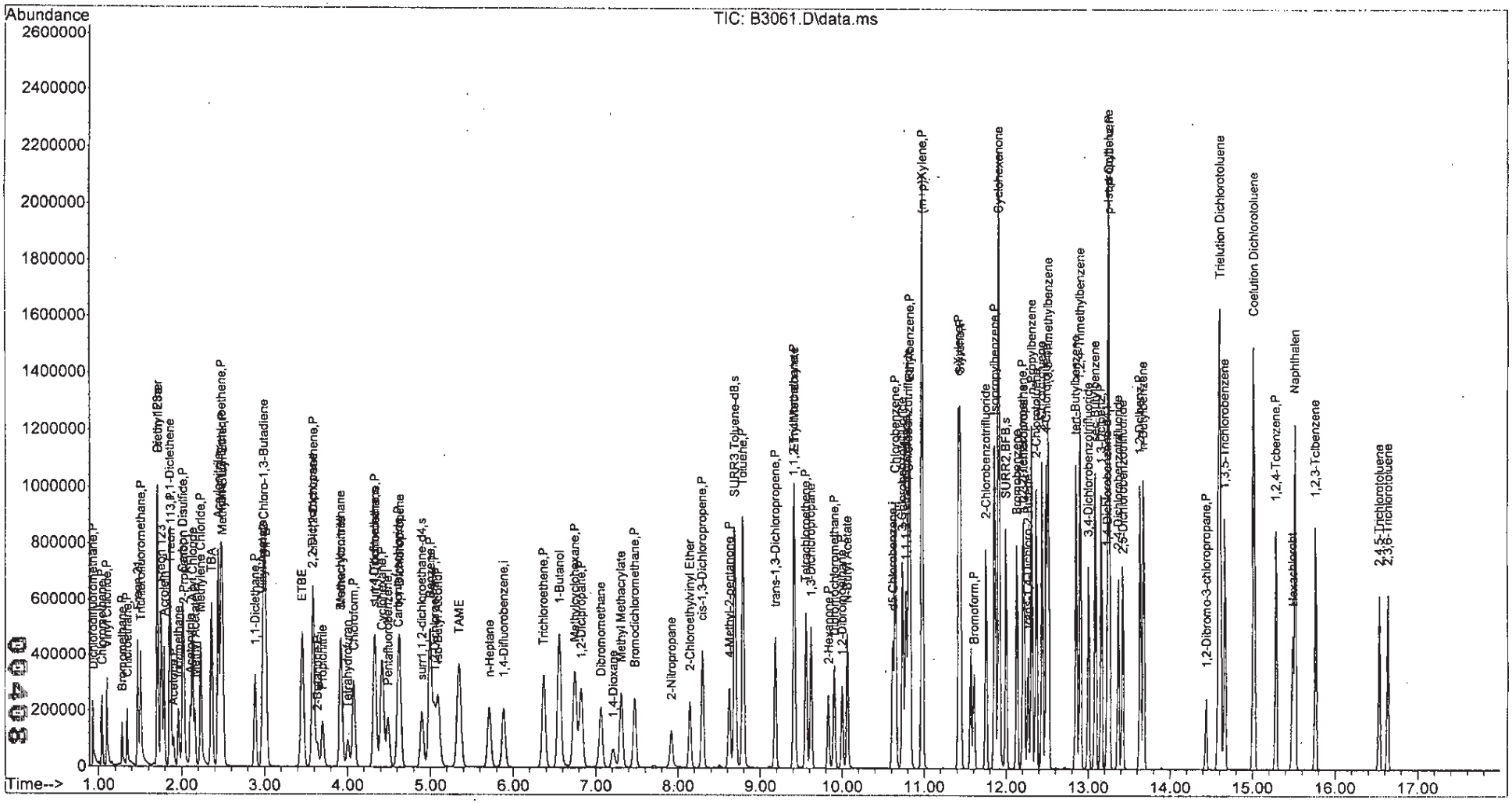
response 89083

Ion	Exp%	Act%
40.10	100	100
41.10	191.80	191.27
39.10	39.30	37.46
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3061.D
Acq On : 10 Sep 2015 11:35 am
Operator : B Wojtasiewicz
Sample : 100 ppb Inst : MSVOA14
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 10 14:10:09 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3062.D
Acq On : 10 Sep 2015 11:59 am
Operator : B Wojtasiewicz
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 14:12:57 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

JLW 09/10/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	162882	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	247616	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.617	117	222934	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	118588	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	307529	199.85	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	399.70%#		
47) surr1,1,2-dichloroetha...	4.898	65	347625	201.47	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	402.94%#		
64) SURR3,Toluene-d8	8.690	98	1175552	201.28	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	402.56%#		
69) SURR2,BFB	11.994	95	469450	226.99	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	453.98%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.929	85	230144m	161.15	ug/L	
3) Chloromethane	1.039	50	247287	175.21	ug/L	99
4) Vinyl Chloride	1.100	62	274355	158.26	ug/L	97
5) Bromomethane	1.283	94	72962	48.97	ug/L	99
6) Chloroethane	1.338	64	170795m	144.11	ug/L	
7) Freon 21	1.472	67	458956	145.16	ug/L	96
8) Trichlorofluoromethane	1.502	101	340096m	147.98	ug/L	
9) Diethyl Ether	1.710	59	230339	179.22	ug/L	91
10) Freon 123a	1.710	67	281661	156.22	ug/L	99
11) Freon 123	1.752	83	343507	159.91	ug/L	98
12) Acrolein	1.789	56	361529	907.65	ug/L	100
13) 1,1-Diclethene	1.856	96	222059	166.30	ug/L	92
14) Freon 113	1.862	101	225160	174.52	ug/L	100
15) Acetone	1.905	43	115990	139.98	ug/L	98
16) 2-Propanol	2.039	45	583895	4572.45	ug/L	90
17) Iodomethane	1.960	142	285392	199.69	ug/L	99
18) Carbon Disulfide	2.008	76	640417	159.49	ug/L	99
19) Acetonitrile	2.106	40	135627m	968.63	ug/L	
20) Allyl Chloride	2.130	76	127781	160.19	ug/L #	75
21) Methyl Acetate	2.161	43	252523	176.91	ug/L	94
22) Methylene Chloride	2.228	84	272170	162.19	ug/L	93
23) TBA	2.374	59	990076	4665.99	ug/L	87
24) Acrylonitrile	2.447	53	728299	892.75	ug/L	97
25) Methyl-t-Butyl Ether	2.496	73	830946	188.00	ug/L	98
26) trans-1,2-Dichloroethene	2.472	96	248662	154.53	ug/L	91
27) 1,1-Diclethane	2.886	63	430443	164.20	ug/L	99
28) Vinyl Acetate	2.978	86	71579	187.96	ug/L #	73
29) DIPE	3.014	45	771330	176.16	ug/L	95
30) 2-Chloro-1,3-Butadiene	2.990	53	403370	162.95	ug/L	99
31) ETBE	3.459	59	799507	195.76	ug/L	98
32) 2,2-Dichloropropane	3.581	77	356139	207.19	ug/L	97
33) cis-1,2-Dichloroethene	3.587	96	285811	153.98	ug/L	88
34) 2-Butanone	3.642	43	172970	166.00	ug/L	93
35) Propionitrile	3.703	54	310613	918.20	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3062.D
Acq On : 10 Sep 2015 11:59 am
Operator : B Wojtasiewicz
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 14:12:57 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	3.917	130	177305	151.70	ug/L		94
37) Methacrylonitrile	3.929	67	151545	172.25	ug/L	#	73
38) Tetrahydrofuran	4.002	42	107556	184.24	ug/L		96
39) Chloroform	4.075	83	450615	156.28	ug/L		100
40) 1,1,1-Trichloroethane	4.331	97	373488	173.67	ug/L		96
41) TAME	5.349	73	785934	197.06	ug/L		98
43) Cyclohexane	4.417	41	198137	182.15	ug/L		90
45) Carbontetrachloride	4.618	121	93060	185.52	ug/L		92
46) 1,1-Dichloropropene	4.630	75	323908	166.54	ug/L		98
48) Benzene	4.996	78	1029265	164.99	ug/L		95
49) 1,2-Dichloroethane	5.051	62	349502	161.89	ug/L		95
50) Iso-Butyl Alcohol	5.112	43	427531	4805.75	ug/L		95
51) n-Heptane	5.709	43	219978	219.73	ug/L		90
52) 1-Butanol	6.581	56	778983	13466.32	ug/L		100
53) Trichloroethene	6.367	130	268053	162.98	ug/L		98
54) Methylcyclohexane	6.745	55	275144	206.60	ug/L		92
55) 1,2-Diclpropane	6.818	63	266609	174.25	ug/L		99
56) Dibromomethane	7.056	93	181395	157.14	ug/L		98
57) 1,4-Dioxane	7.215	88	130041	3965.17	ug/L		90
58) Methyl Methacrylate	7.312	69	248872	189.89	ug/L		93
59) Bromodichloromethane	7.471	83	343724	172.70	ug/L		98
60) 2-Nitropropane	7.922	41	147557	394.41	ug/L		87
61) 2-Chloroethylvinyl Ether	8.141	63	191657	177.07	ug/L		92
62) cis-1,3-Dichloropropene	8.294	75	430179	197.75	ug/L		96
63) 4-Methyl-2-pentanone	8.623	43	325684	188.55	ug/L		96
65) Toluene	8.788	91	1114546	163.28	ug/L		96
66) trans-1,3-Dichloropropene	9.184	75	395241	201.91	ug/L		97
67) Ethyl Methacrylate	9.416	69	438798	200.98	ug/L		95
68) 1,1,2-Trichloroethane	9.409	97	271130	162.96	ug/L		97
71) Tetrachloroethene	9.556	164	203183	174.09	ug/L		94
72) 2-Hexanone	9.830	43	254774	188.53	ug/L		98
73) 1,3-Dichloropropane	9.617	76	451252	161.39	ug/L		96
74) Dibromochloromethane	9.903	129	285561	177.53	ug/L		97
75) N-Butyl Acetate	10.062	43	486237	198.69	ug/L		99
76) 1,2-Dibromoethane	9.995	107	284991	167.83	ug/L		99
77) 3-Chlorobenzotrifluoride	10.732	180	374289	189.08	ug/L		94
78) Chlorobenzene	10.647	112	726664	161.47	ug/L		97
79) 4-Chlorobenzotrifluoride	10.806	180	335776	192.79	ug/L		99
80) 1,1,1,2-Tetrachloroethane	10.775	131	250736	176.44	ug/L		98
81) Ethylbenzene	10.824	106	381507	170.45	ug/L		94
82) (m+p)Xylene	10.976	106	914173	339.43	ug/L		96
83) o-Xylene	11.421	106	456053	170.37	ug/L		95
84) Styrene	11.440	104	813725	175.86	ug/L		97
85) Bromoform	11.604	173	211495	194.19	ug/L		99
86) 2-Chlorobenzotrifluoride	11.750	180	374997	183.75	ug/L		95
87) Isopropylbenzene	11.860	105	1117633	181.20	ug/L		100
88) Cyclohexanone	11.909	55	1286243	4193.48	ug/L		94
89) trans-1,4-Dichloro-2-B...	12.263	53	107994	193.10	ug/L	#	73
91) 1,1,2,2-Tetrachloroethane	12.202	83	433329	155.25	ug/L		99
92) Bromobenzene	12.128	156	307031	157.15	ug/L		96
93) 1,2,3-Trichloropropane	12.214	110	126492	162.63	ug/L	#	81

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3062.D
Acq On : 10 Sep 2015 11:59 am
Operator : B Wojtasiewicz
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

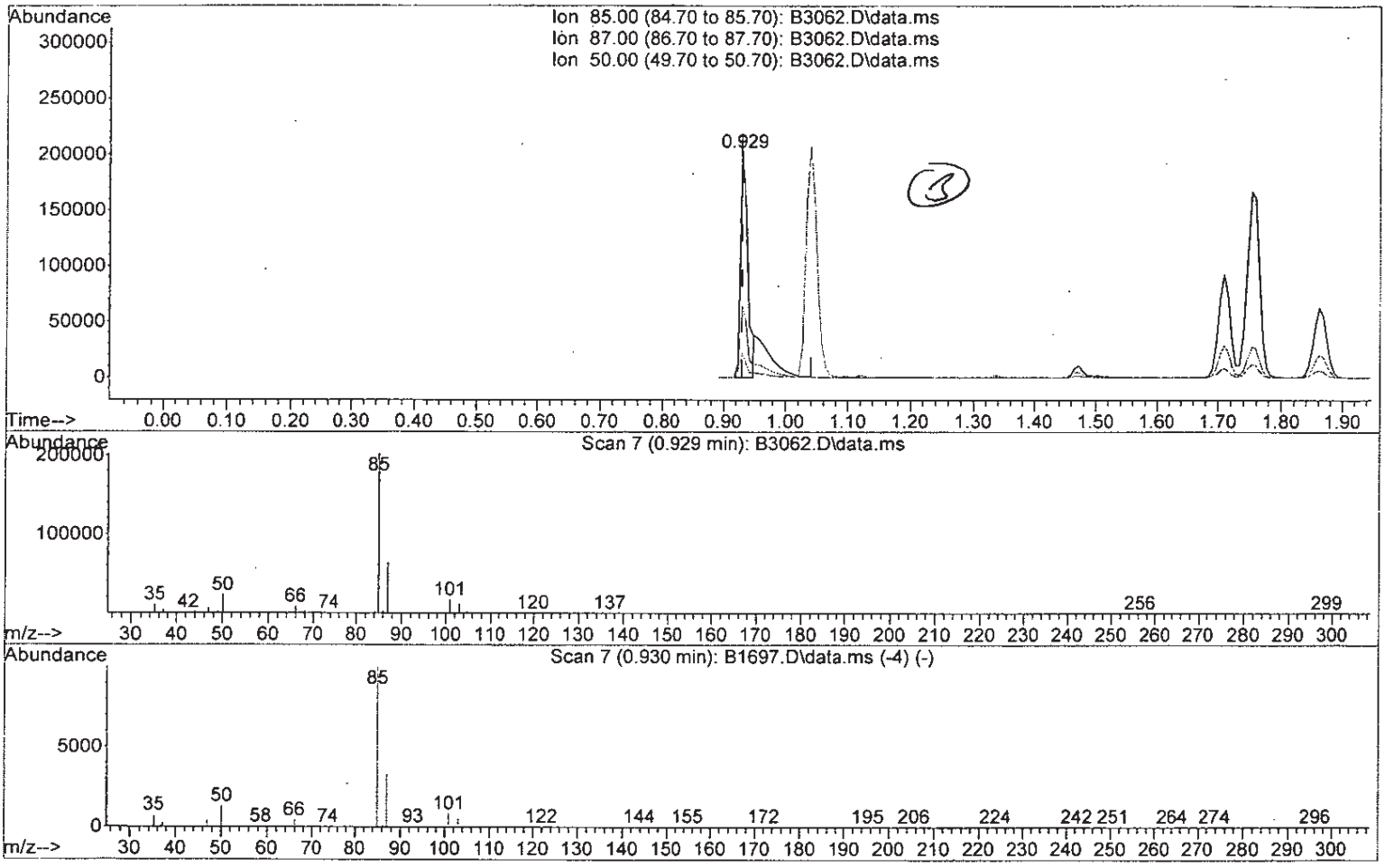
Quant Time: Sep 10 14:12:57 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	12.311	91	1278304	169.76	ug/L	100
95)	2-Chlorotoluene	12.366	91	816847	172.57	ug/L	95
96)	3-Chlorotoluene	12.433	91	860873	170.89	ug/L	95
97)	4-Chlorotoluene	12.488	91	952708	172.14	ug/L	97
98)	1,3,5-Trimethylbenzene	12.512	105	925612	182.43	ug/L	98
99)	tert-Butylbenzene	12.848	119	760105	188.70	ug/L	97
100)	1,2,4-Trimethylbenzene	12.903	105	958533	185.54	ug/L	99
101)	3,4-Dichlorobenzotrifl...	13.000	214	268361	196.23	ug/L	99
102)	sec-Butylbenzene	13.086	105	1074943	182.07	ug/L	99
103)	p-Isopropyltoluene	13.250	119	905245	183.21	ug/L	98
104)	1,3-Dclbenz	13.159	146	566155	168.13	ug/L	98
105)	1,4-Dclbenz	13.256	146	577451	167.37	ug/L	97
106)	2,4-Dichlorobenzotrifl...	13.366	214	243886	197.99	ug/L	97
107)	2,5-Dichlorobenzotrifl...	13.421	214	280669	198.28	ug/L	96
108)	n-Butylbenzene	13.677	91	829956	184.67	ug/L	99
109)	1,2-Dclbenz	13.634	146	579725	172.81	ug/L	99
110)	1,2-Dibromo-3-chloropr...	14.433	157	101219	191.53	ug/L	93
111)	Trielution Dichlorotol...	14.604	125	1408721	603.61	ug/L	99
112)	1,3,5-Trichlorobenzene	14.658	180	386187	201.64	ug/L	97
113)	Coelution Dichlorotoluene	15.012	125	1085780	408.21	ug/L	99
114)	1,2,4-Tcbenzene	15.280	180	385026	203.29	ug/L	98
115)	Hexachlorobt	15.481	225	135413	205.64	ug/L	97
116)	Naphthalen	15.512	128	1309860	189.84	ug/L	99
117)	1,2,3-Tclbenzene	15.756	180	380004	202.82	ug/L	95
118)	2,4,5-Trichlorotoluene	16.530	159	243546	224.02	ug/L	98
119)	2,3,6-Trichlorotoluene	16.634	159	213245	224.88	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3062.D
Acq On : 10 Sep 2015 11:59 am
Operator : B Wojtasiewicz
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 14:11:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3062.D\data.ms

(2) Dichlorodifluoromethane (P)

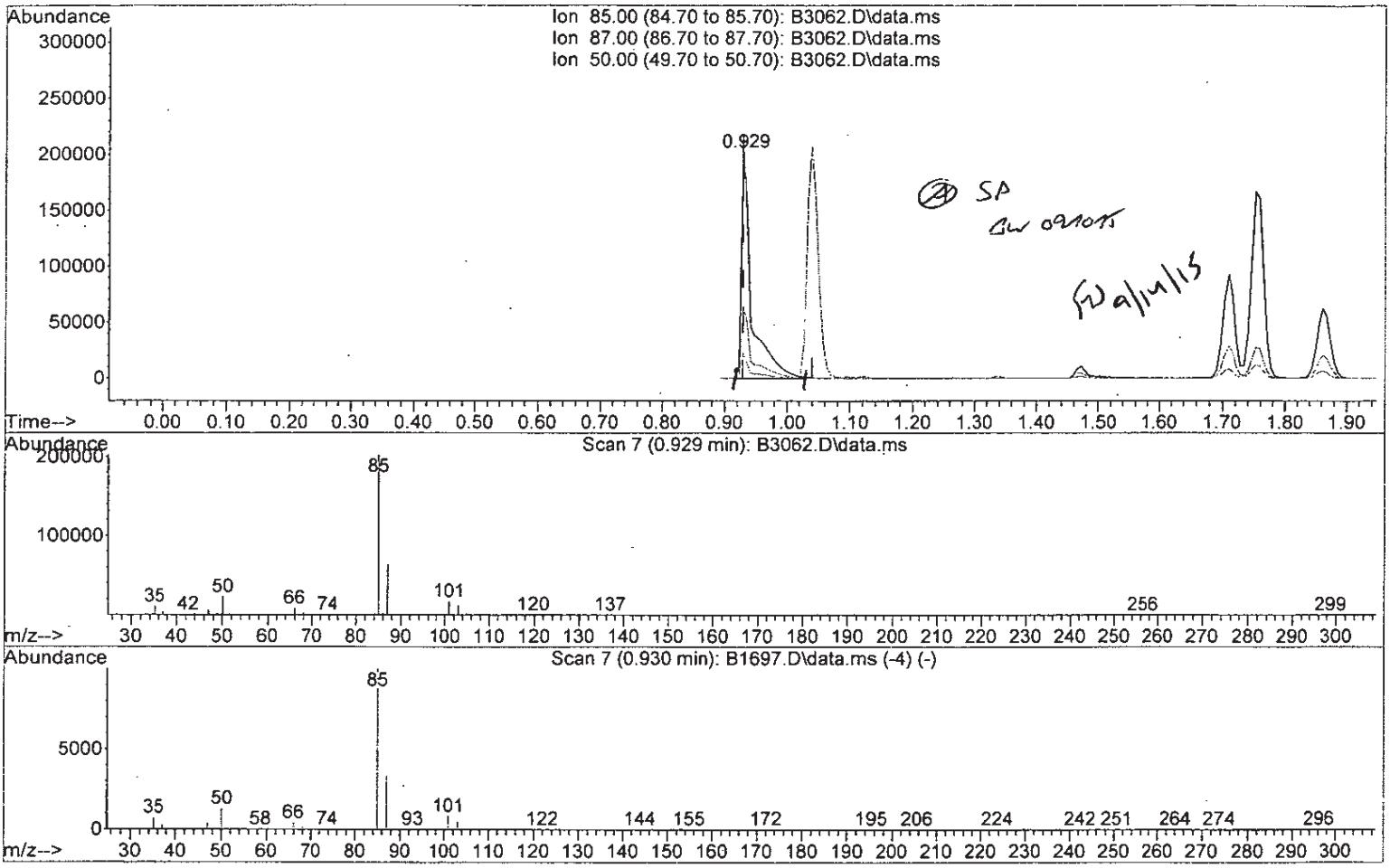
0.929min (-0.000) 114.90 ug/L

response 164086

Ion	Exp%	Act%
85.00	100	100
87.00	35.00	31.54
50.00	10.60	11.24
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3062.D
Acq On : 10 Sep 2015 11:59 am
Operator : B Wojtasiewicz
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 14:11:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3062.D\data.ms

(2) Dichlorodifluoromethane (P)

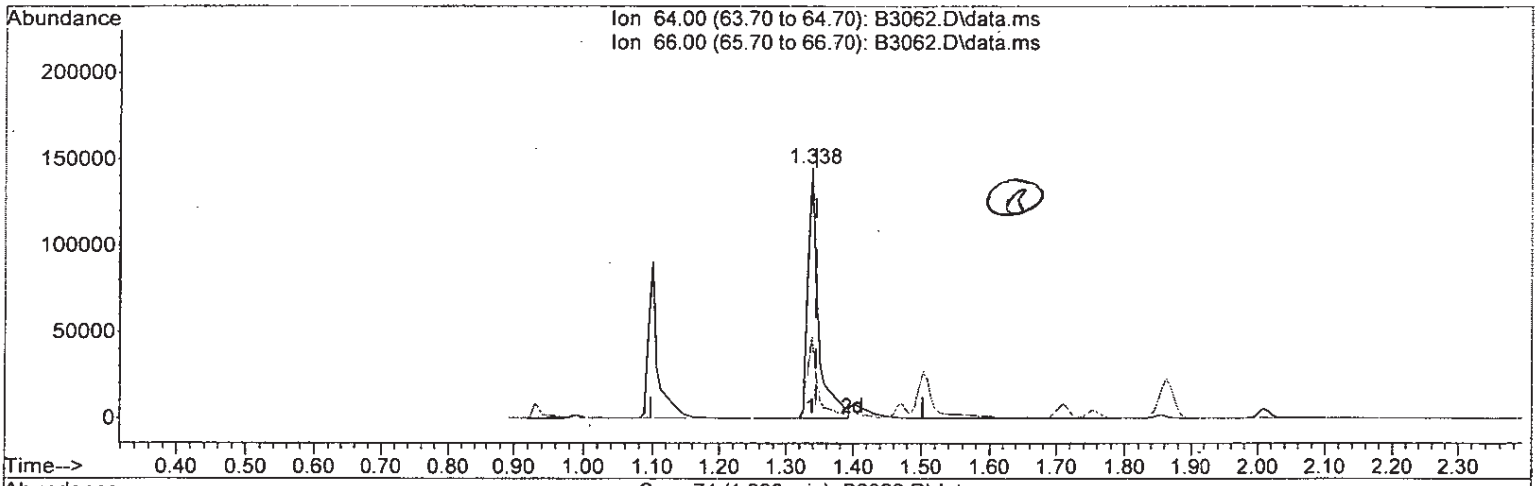
0.929min (-0.000) 161.15 ug/L m

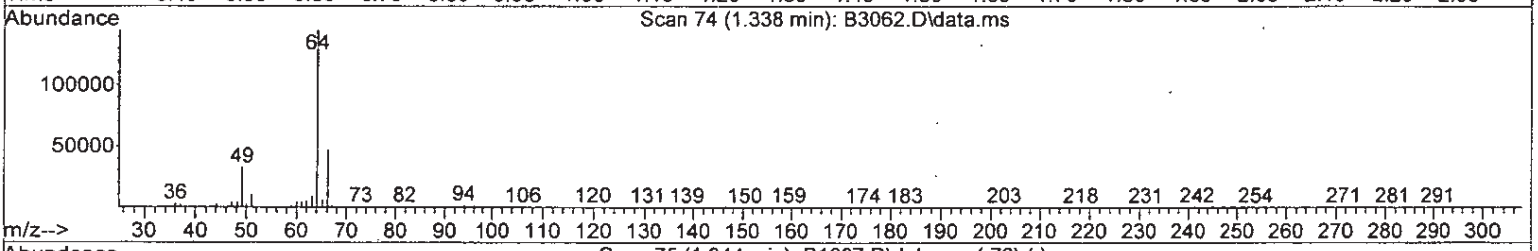
response 230144

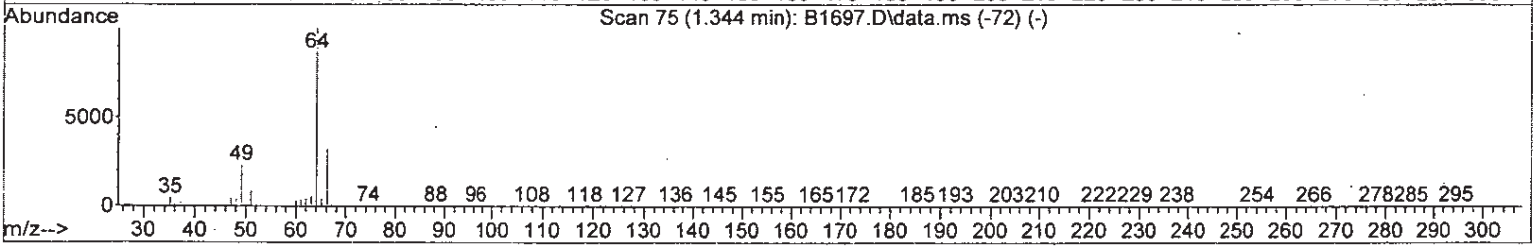
Ion	Exp%	Act%
85.00	100	100
87.00	35.00	31.54
50.00	10.60	11.24
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3062.D
Acq On : 10 Sep 2015 11:59 am
Operator : B Wojtasiewicz
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 14:11:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration







TIC: B3062.D\data.ms

(6) Chloroethane (P)

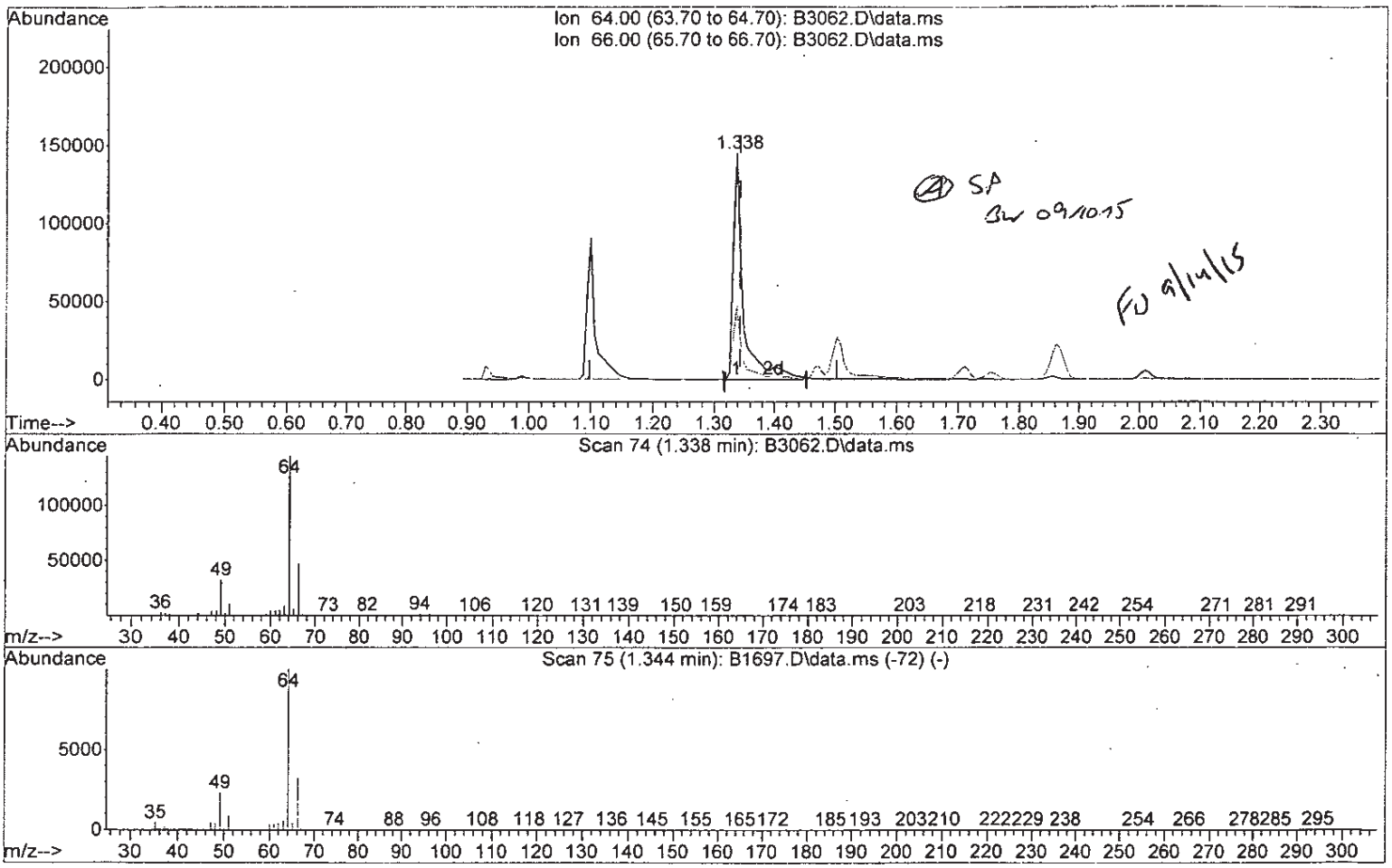
1.338min (-0.006) 131.58 ug/L

response 155942

Ion	Exp%	Act%
64.00	100	100
66.00	33.40	32.28
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3062.D
Acq On : 10 Sep 2015 11:59 am
Operator : B Wojtasiewicz
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 14:11:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3062.D\data.ms

(6) Chloroethane (P)

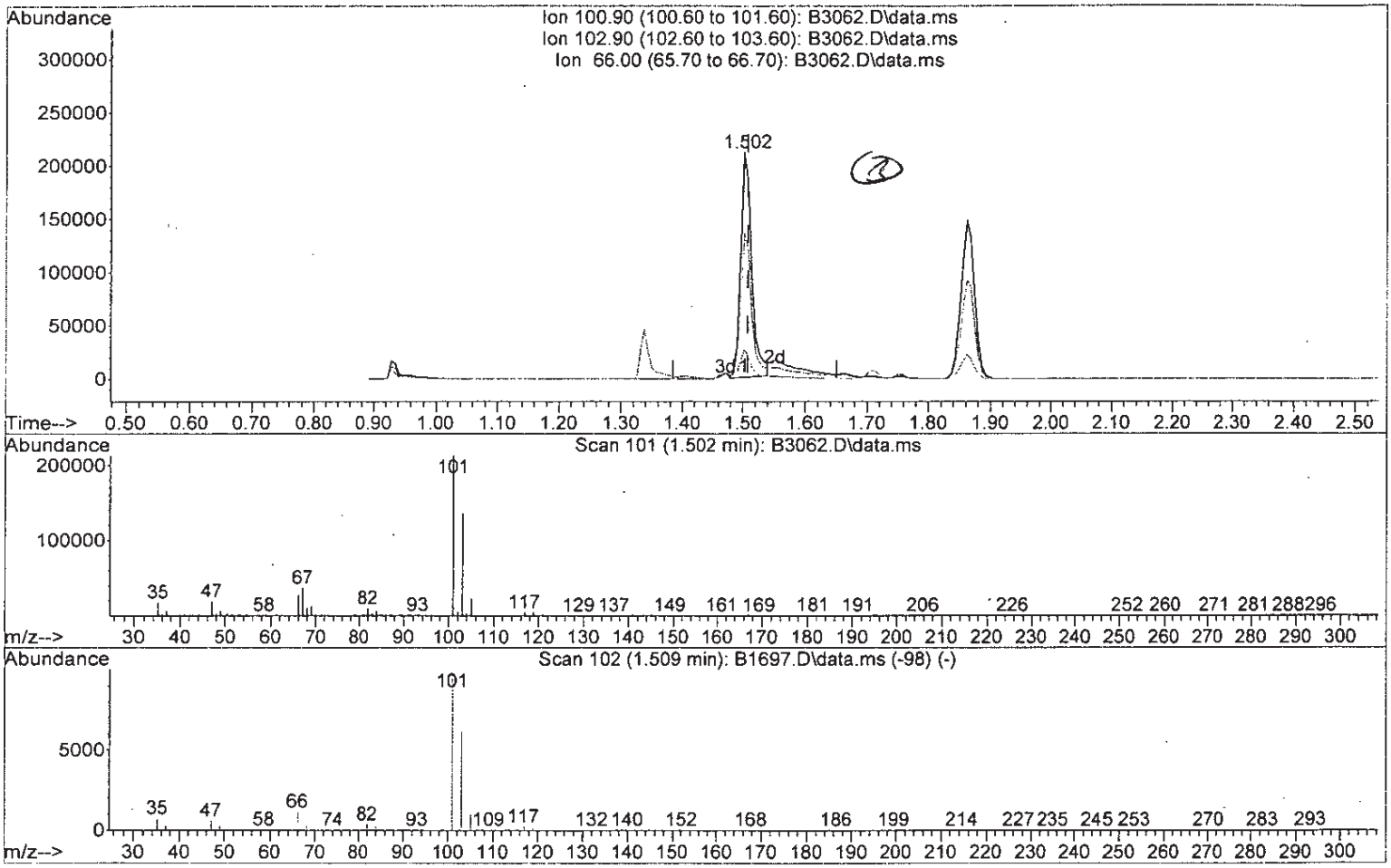
1.338min (-0.006) 144.11 ug/L m

response 170795

Ion	Exp%	Act%
64.00	100	100
66.00	33.40	32.28
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3062.D
Acq On : 10 Sep 2015 11:59 am
Operator : B Wojtasiewicz
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 14:11:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3062.D\data.ms

(8) Trichlorofluoromethane (P)

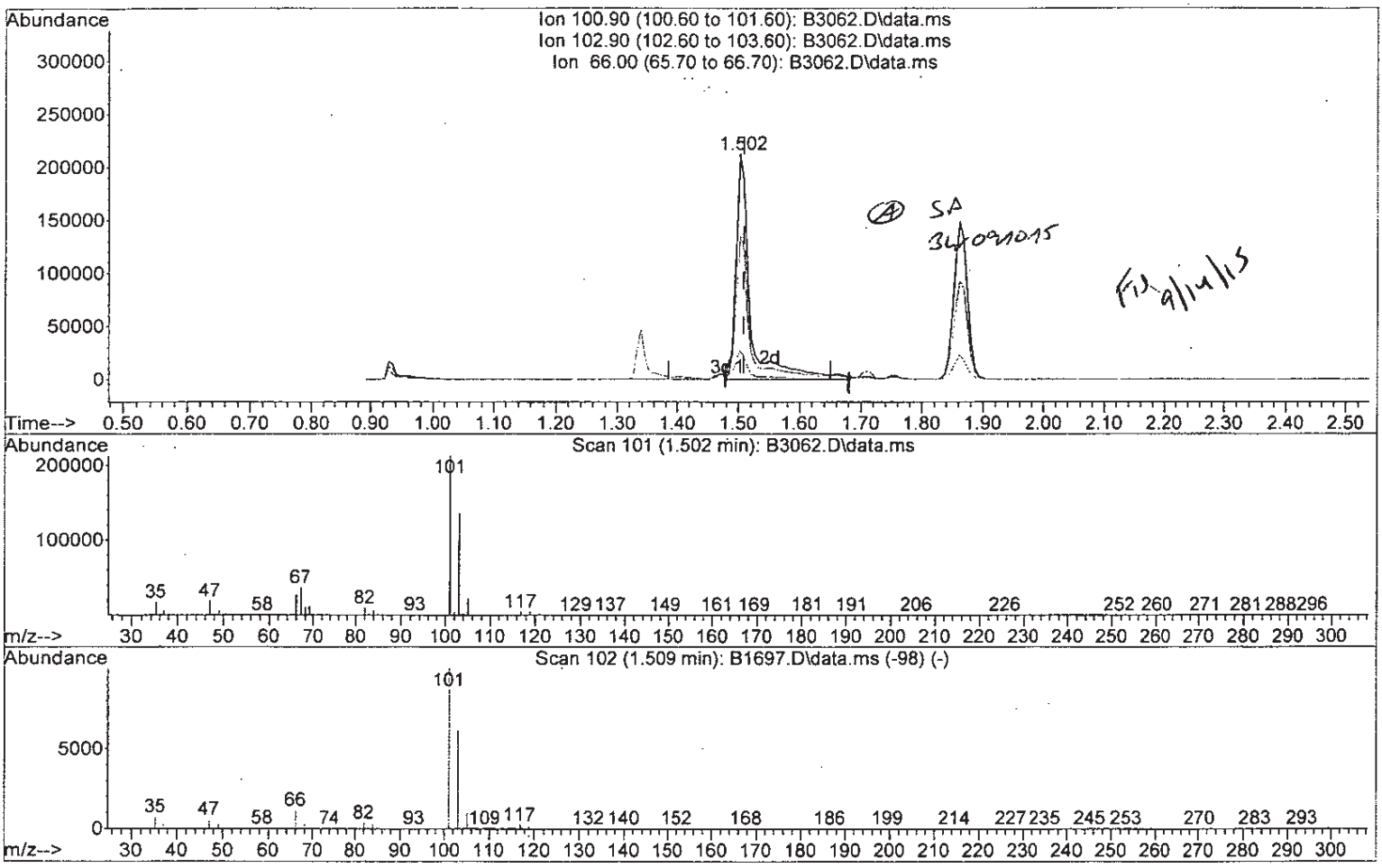
1.502min (-0.006) 114.52 ug/L

response 263201

Ion	Exp%	Act%
100.90	100	100
102.90	66.10	64.04
66.00	13.00	12.64
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3062.D
Acq On : 10 Sep 2015 11:59 am
Operator : B Wojtasiewicz
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 14:11:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3062.D\data.ms

(8) Trichlorofluoromethane (P)

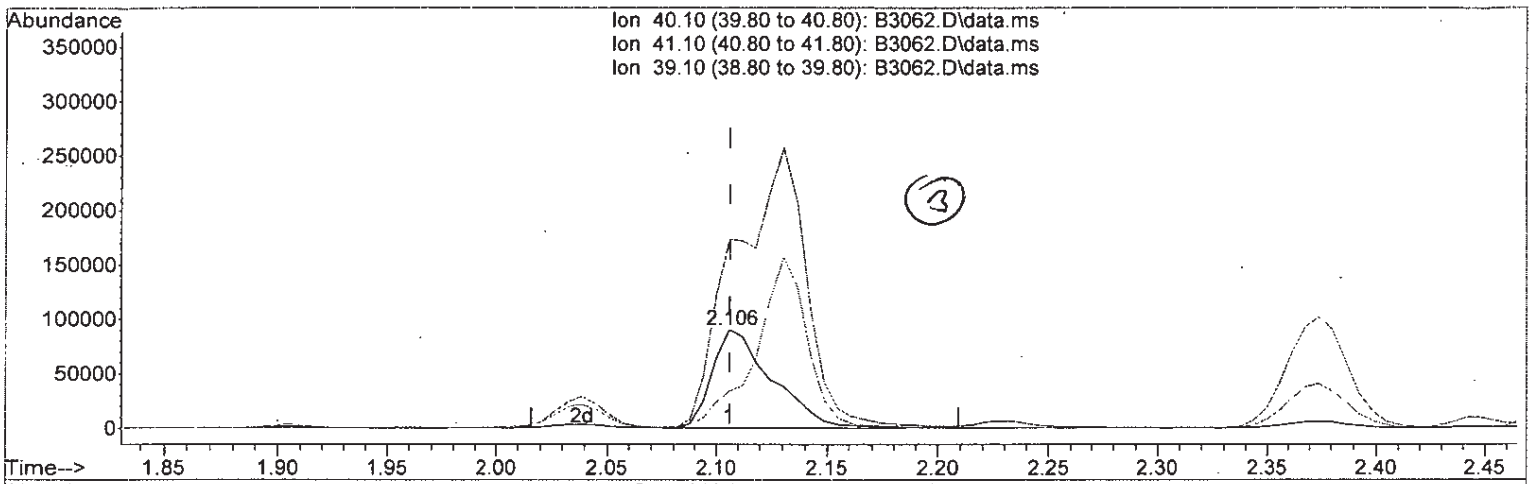
1.502min (-0.006) 147.98 ug/L m

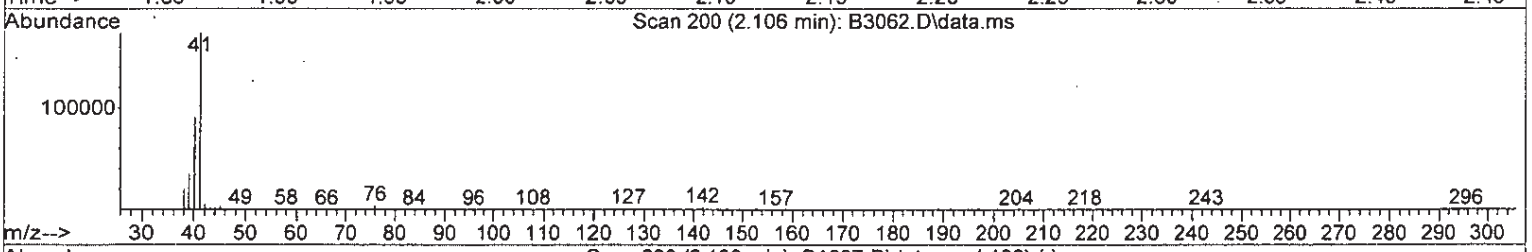
response 340096

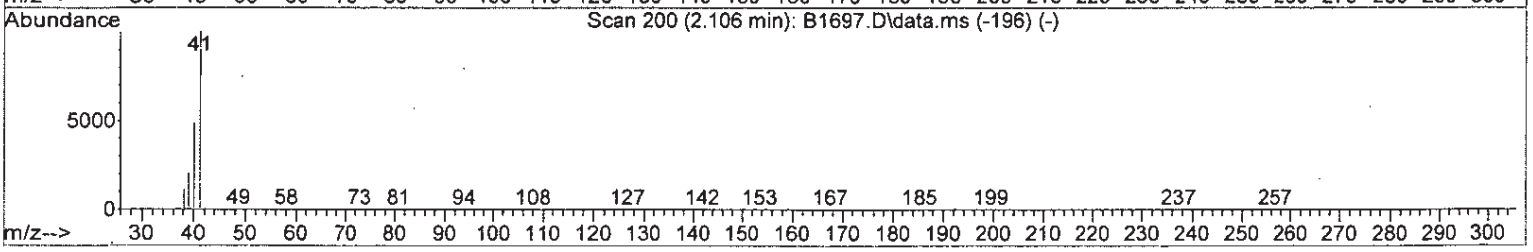
Ion	Exp%	Act%
100.90	100	100
102.90	66.10	64.04
66.00	13.00	12.64
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3062.D
Acq On : 10 Sep 2015 11:59 am
Operator : B Wojtasiewicz
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 14:11:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration







TIC: B3062.D\data.ms

(19) Acetonitrile

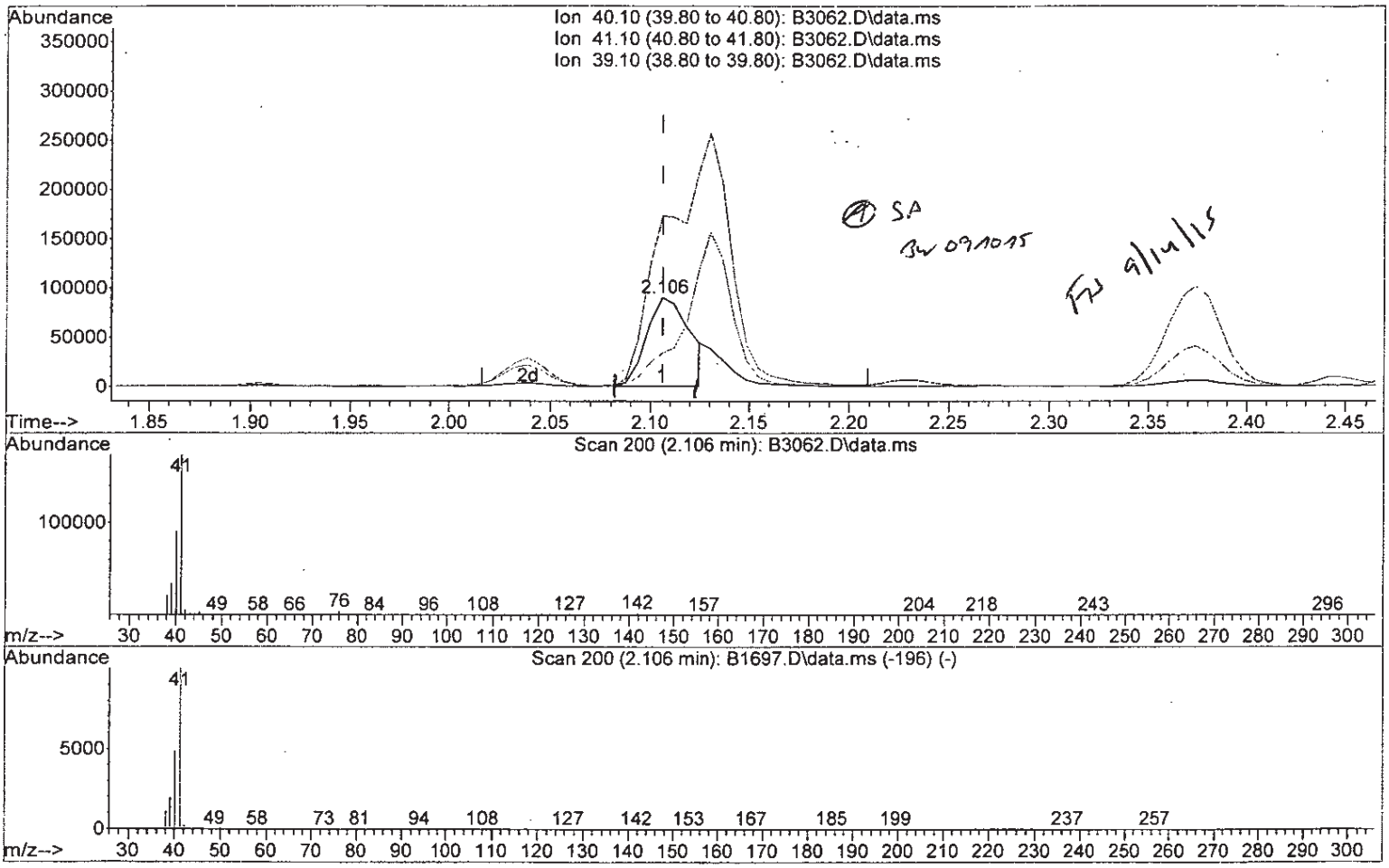
2.106min (-0.000) 1216.43 ug/L

response 170323

Ion	Exp%	Act%
40.10	100	100
41.10	191.80	192.07
39.10	39.30	37.56
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3062.D
Acq On : 10 Sep 2015 11:59 am
Operator : B Wojtasiewicz
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 14:11:41 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3062.D\data.ms

(19) Acetonitrile

2.106min (-0.000) 968.63 ug/L m

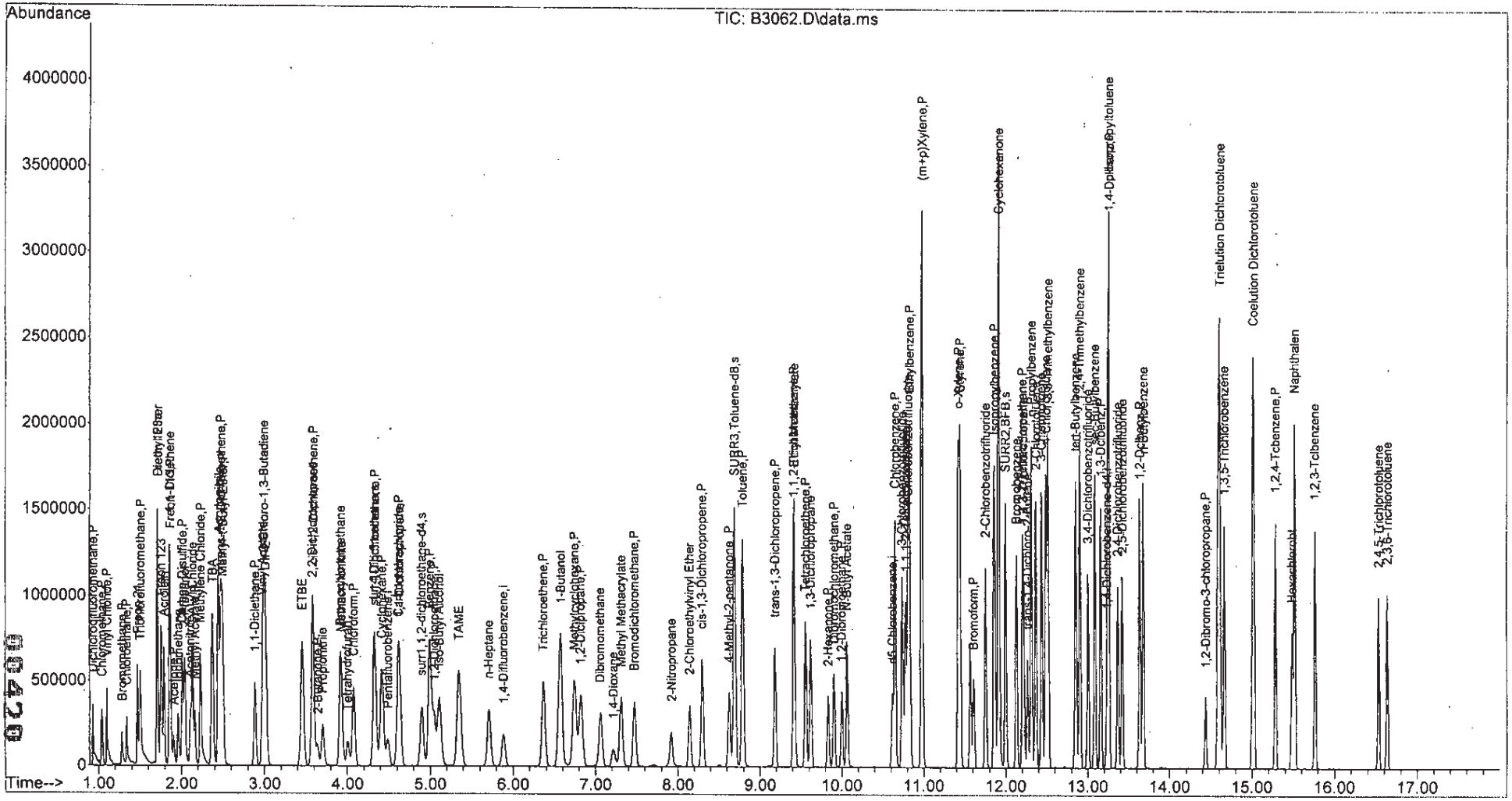
response 135627

Ion	Exp%	Act%
40.10	100	100
41.10	191.80	192.07
39.10	39.30	37.56
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3062.D
Acq On : 10 Sep 2015 11:59 am
Operator : B Wojtasiewicz
Sample : 150 ppb Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 14:12:57 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3063.D
Acq On : 10 Sep 2015 12:23 pm
Operator : B Wojtasiewicz
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 14:15:29 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

BW 091015

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	178581	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	267767	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.617	117	241624	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	125302	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.331	113	87958	52.86	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.72%			
47) surr1,1,2-dichloroetha...	4.898	65	98160	52.61	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 105.22%			
64) SURR3,Toluene-d8	8.690	98	335939	53.19	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.38%			
69) SURR2,BFB	11.994	95	131476	58.79	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 117.58%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.929	85	313328	200.11	ug/L	95
3) Chloromethane	1.039	50	341219	220.51	ug/L	100
4) Vinyl Chloride	1.100	62	374168	196.87	ug/L	98
5) Bromomethane	1.283	94	118506m	72.55	ug/L	
6) Chloroethane	1.344	64	242211m	186.41	ug/L	
7) Freon 21	1.472	67	633181	182.66	ug/L	95
8) Trichlorofluoromethane	1.509	101	436278	173.14	ug/L	98
9) Diethyl Ether	1.710	59	318446	225.99	ug/L	93
10) Freon 123a	1.710	67	400447	202.57	ug/L	96
11) Freon 123	1.752	83	483735	205.40	ug/L	98
12) Acrolein	1.789	56	492362	1127.45	ug/L	99
13) 1,1-Diclethene	1.856	96	311261	212.61	ug/L	89
14) Freon 113	1.868	101	314310	222.20	ug/L	96
15) Acetone	1.899	43	146638	161.41	ug/L	96
16) 2-Propanol	2.027	45	738900	5277.62	ug/L	89
17) Iodomethane	1.960	142	414547	264.56	ug/L	99
18) Carbon Disulfide	2.015	76	935559	212.51	ug/L	100
19) Acetonitrile	2.100	40	183855m	1197.64	ug/L	
20) Allyl Chloride	2.130	76	178321	203.90	ug/L #	79
21) Methyl Acetate	2.161	43	343685	219.60	ug/L	94
22) Methylene Chloride	2.228	84	373633	203.08	ug/L	91
23) TBA	2.362	59	1254754	5393.51	ug/L	87
24) Acrylonitrile	2.441	53	983667	1099.78	ug/L	97
25) Methyl-t-Butyl Ether	2.490	73	1147870	236.87	ug/L	98
26) trans-1,2-Dichloroethene	2.478	96	349167	197.91	ug/L	95
27) 1,1-Diclethane	2.886	63	602640	209.68	ug/L	98
28) Vinyl Acetate	2.972	86	101383	242.82	ug/L #	63
29) DIPE	3.008	45	1081899	225.37	ug/L	95
30) 2-Chloro-1,3-Butadiene	2.990	53	581344	214.20	ug/L	100
31) ETBE	3.453	59	1125849	251.43	ug/L	97
32) 2,2-Dichloropropane	3.581	77	499178	264.88	ug/L	96
33) cis-1,2-Dichloroethene	3.587	96	398820	195.97	ug/L	87
34) 2-Butanone	3.636	43	229519	200.91	ug/L	93
35) Propionitrile	3.697	54	405141	1092.35	ug/L	98

00421

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3063.D
Acq On : 10 Sep 2015 12:23 pm
Operator : B Wojtasiewicz
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 14:15:29 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	3.917	130	245364	191.48	ug/L		91
37) Methacrylonitrile	3.929	67	205310	212.84	ug/L	#	74
38) Tetrahydrofuran	4.002	42	143824	224.70	ug/L		96
39) Chloroform	4.075	83	626576	198.20	ug/L		99
40) 1,1,1-Trichloroethane	4.331	97	525107	222.71	ug/L		96
41) TAME	5.349	73	1107558	253.29	ug/L		99
43) Cyclohexane	4.417	41	278654	236.90	ug/L		93
45) Carbontetrachloride	4.618	121	133734	246.54	ug/L		94
46) 1,1-Dichloropropene	4.630	75	454219	215.97	ug/L		100
48) Benzene	4.996	78	1440856	213.59	ug/L		96
49) 1,2-Dichloroethane	5.051	62	485284	207.86	ug/L		95
50) Iso-Butyl Alcohol	5.105	43	531193	5521.63	ug/L		93
51) n-Heptane	5.709	43	296938	274.28	ug/L		89
52) 1-Butanol	6.575	56	979636	15660.56	ug/L		100
53) Trichloroethene	6.367	130	373488	209.99	ug/L		95
54) Methylcyclohexane	6.751	55	383661	266.41	ug/L		91
55) 1,2-Diclpropane	6.825	63	374210	226.17	ug/L		98
56) Dibromomethane	7.062	93	252954	202.64	ug/L		100
57) 1,4-Dioxane	7.209	88	161797	4562.20	ug/L		92
58) Methyl Methacrylate	7.306	69	339000	239.20	ug/L		95
59) Bromodichloromethane	7.471	83	489748	227.54	ug/L		97
60) 2-Nitropropane	7.916	41	207943	513.99	ug/L		88
61) 2-Chloroethylvinyl Ether	8.141	63	264952	226.36	ug/L		90
62) cis-1,3-Dichloropropene	8.294	75	602445	256.10	ug/L		95
63) 4-Methyl-2-pentanone	8.623	43	430640	230.55	ug/L		96
65) Toluene	8.788	91	1560028	211.35	ug/L		96
66) trans-1,3-Dichloropropene	9.184	75	560542	264.80	ug/L		98
67) Ethyl Methacrylate	9.416	69	596155	252.50	ug/L		95
68) 1,1,2-Trichloroethane	9.409	97	373919	207.83	ug/L		99
71) Tetrachloroethene	9.556	164	283772	224.33	ug/L		94
72) 2-Hexanone	9.830	43	330468	225.63	ug/L		98
73) 1,3-Dichloropropane	9.617	76	622881	205.54	ug/L		95
74) Dibromochloromethane	9.903	129	401606	230.37	ug/L		96
75) N-Butyl Acetate	10.062	43	654726	246.85	ug/L		98
76) 1,2-Dibromoethane	9.995	107	396291	215.32	ug/L		97
77) 3-Chlorobenzotrifluoride	10.738	180	512716	238.97	ug/L		97
78) Chlorobenzene	10.647	112	1014065	207.90	ug/L		97
79) 4-Chlorobenzotrifluoride	10.806	180	462136	244.82	ug/L		98
80) 1,1,1,2-Tetrachloroethane	10.775	131	357168	231.89	ug/L		98
81) Ethylbenzene	10.824	106	532081	219.33	ug/L		92
82) (m+p)Xylene	10.976	106	1287777	441.16	ug/L		97
83) o-Xylene	11.421	106	640855	220.89	ug/L		94
84) Styrene	11.440	104	1130343	225.40	ug/L		97
85) Bromoform	11.604	173	293037	248.25	ug/L		100
86) 2-Chlorobenzotrifluoride	11.750	180	504385	228.03	ug/L		93
87) Isopropylbenzene	11.860	105	1560520	233.43	ug/L		99
88) Cyclohexanone	11.909	55	1436109	4319.91	ug/L		94
89) trans-1,4-Dichloro-2-B...	12.263	53	141028	232.66	ug/L	#	70
91) 1,1,2,2-Tetrachloroethane	12.202	83	572158	194.00	ug/L		100
92) Bromobenzene	12.128	156	419487	203.21	ug/L		95
93) 1,2,3-Trichloropropane	12.214	110	167415	203.71	ug/L	#	80

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3063.D
Acq On : 10 Sep 2015 12:23 pm
Operator : B Wojtasiewicz
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

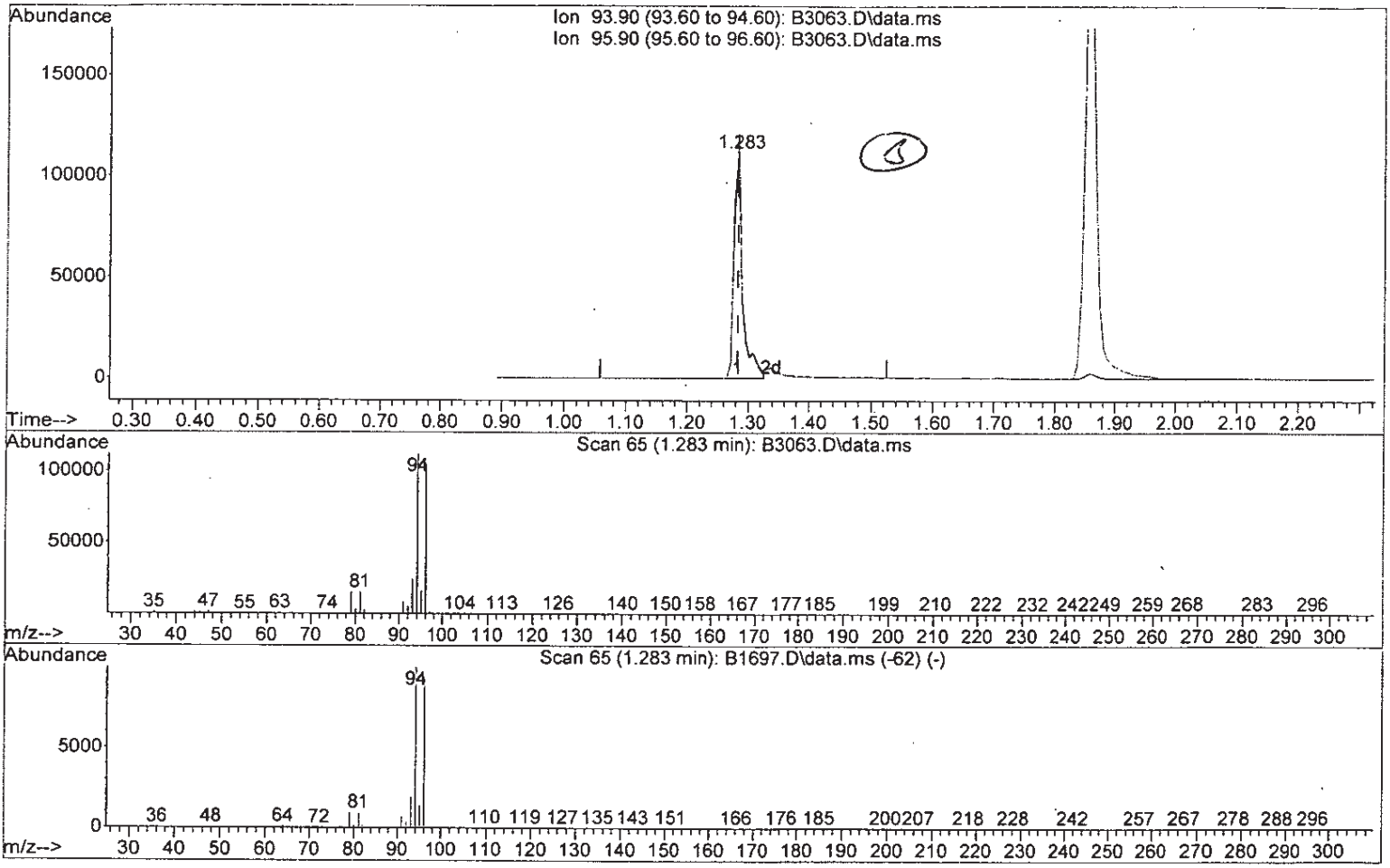
Quant Time: Sep 10 14:15:29 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	12.311	91	1771992	222.71	ug/L	99
95)	2-Chlorotoluene	12.366	91	1128891	225.72	ug/L	95
96)	3-Chlorotoluene	12.439	91	1173462	220.47	ug/L	96
97)	4-Chlorotoluene	12.488	91	1315968	225.03	ug/L	97
98)	1,3,5-Trimethylbenzene	12.512	105	1272920	237.43	ug/L	99
99)	tert-Butylbenzene	12.848	119	1039502	244.24	ug/L	97
100)	1,2,4-Trimethylbenzene	12.903	105	1318163	241.48	ug/L	99
101)	3,4-Dichlorobenzotrifl...	13.006	214	357747	247.58	ug/L	99
102)	sec-Butylbenzene	13.086	105	1456006	233.40	ug/L	99
103)	p-Isopropyltoluene	13.250	119	1219757	233.64	ug/L	98
104)	1,3-Dclbenz	13.159	146	774185	217.59	ug/L	98
105)	1,4-Dclbenz	13.256	146	788057	216.18	ug/L	98
106)	2,4-Dichlorobenzotrifl...	13.366	214	325693	250.24	ug/L	98
107)	2,5-Dichlorobenzotrifl...	13.421	214	370988	248.04	ug/L	99
108)	n-Butylbenzene	13.671	91	1116528	235.12	ug/L	99
109)	1,2-Dclbenz	13.634	146	779215	219.83	ug/L	99
110)	1,2-Dibromo-3-chloropr...	14.433	157	133477	239.04	ug/L	94
111)	Trielution Dichlorotol...	14.604	125	1860426	754.44	ug/L	98
112)	1,3,5-Trichlorobenzene	14.665	180	511182	252.61	ug/L	99
113)	Coelution Dichlorotoluene	15.012	125	1432079	509.55	ug/L	99
114)	1,2,4-Tcbenzene	15.280	180	509055	254.37	ug/L	99
115)	Hexachlorobt	15.481	225	174249	250.44	ug/L	97
116)	Naphthalen	15.512	128	1727988	237.02	ug/L	99
117)	1,2,3-Tclbenzene	15.756	180	497467	251.28	ug/L	96
118)	2,4,5-Trichlorotoluene	16.530	159	318367	277.15	ug/L	97
119)	2,3,6-Trichlorotoluene	16.634	159	278392	277.85	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3063.D
Acq On : 10 Sep 2015 12:23 pm
Operator : B Wojtasiewicz
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 14:14:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3063.D\data.ms

(5) Bromomethane (P)

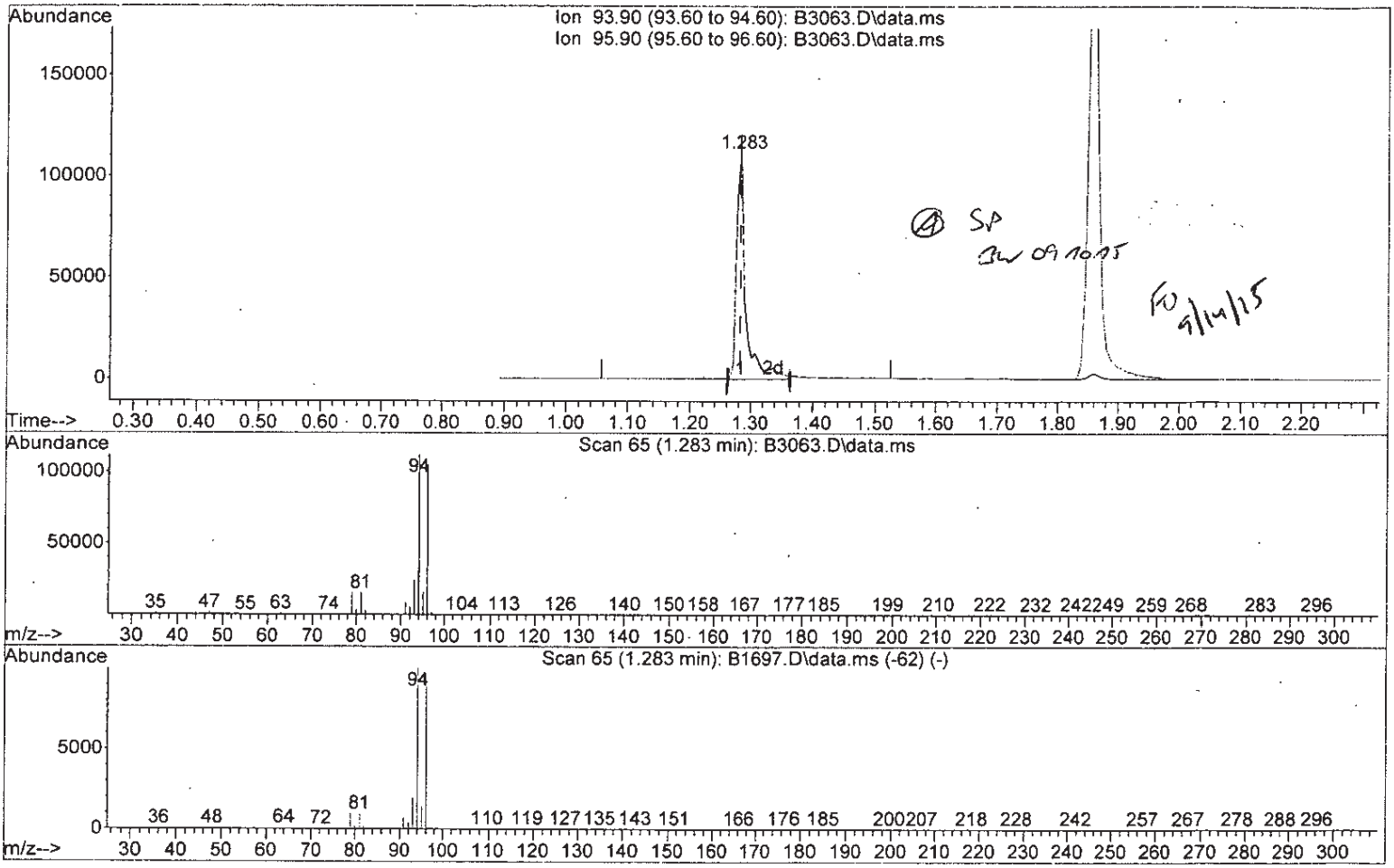
1.283min (-0.000) 67.98 ug/L

response 111042

Ion	Exp%	Act%
93.90	100	100
95.90	92.90	93.73
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3063.D
Acq On : 10 Sep 2015 12:23 pm
Operator : B Wojtasiewicz
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 14:14:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3063.D\data.ms

(5) Bromomethane (P)

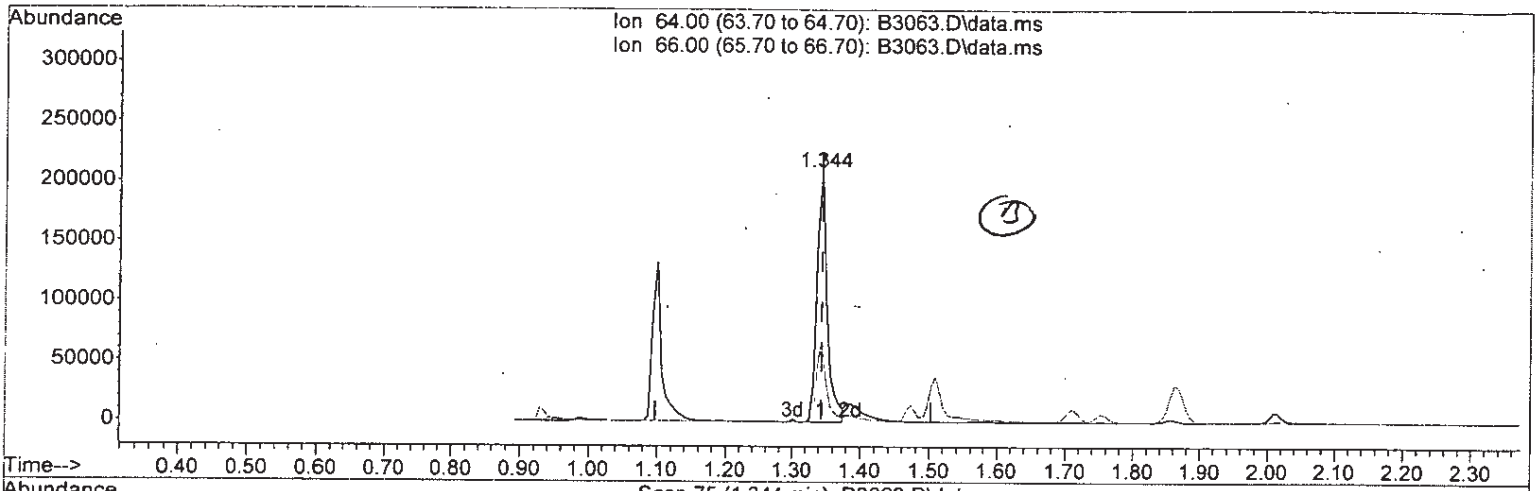
1.283min (-0.000) 72.55 ug/L m

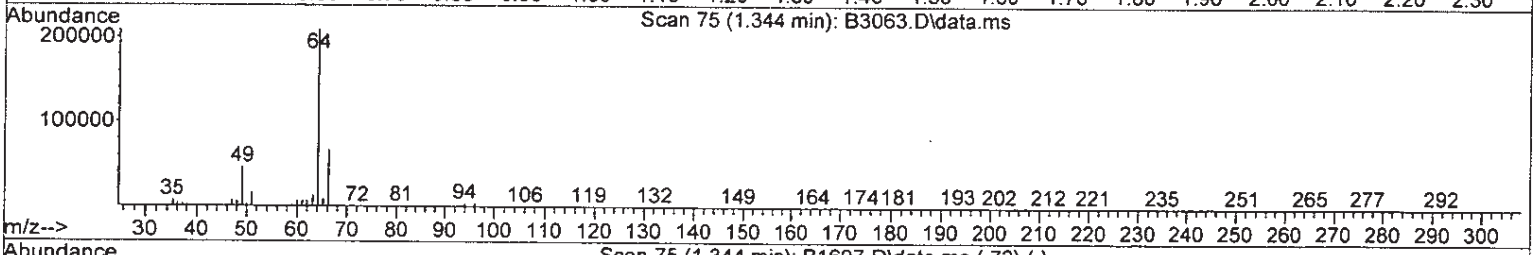
response 118506

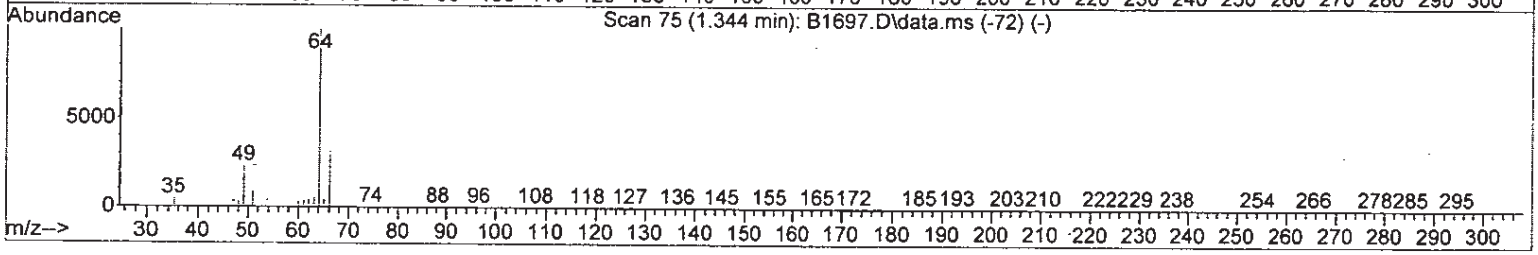
Ion	Exp%	Act%
93.90	100	100
95.90	92.90	93.73
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3063.D
Acq On : 10 Sep 2015 12:23 pm
Operator : B Wojtasiewicz
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 14:14:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration







TIC: B3063.D\data.ms

(6) Chloroethane (P)

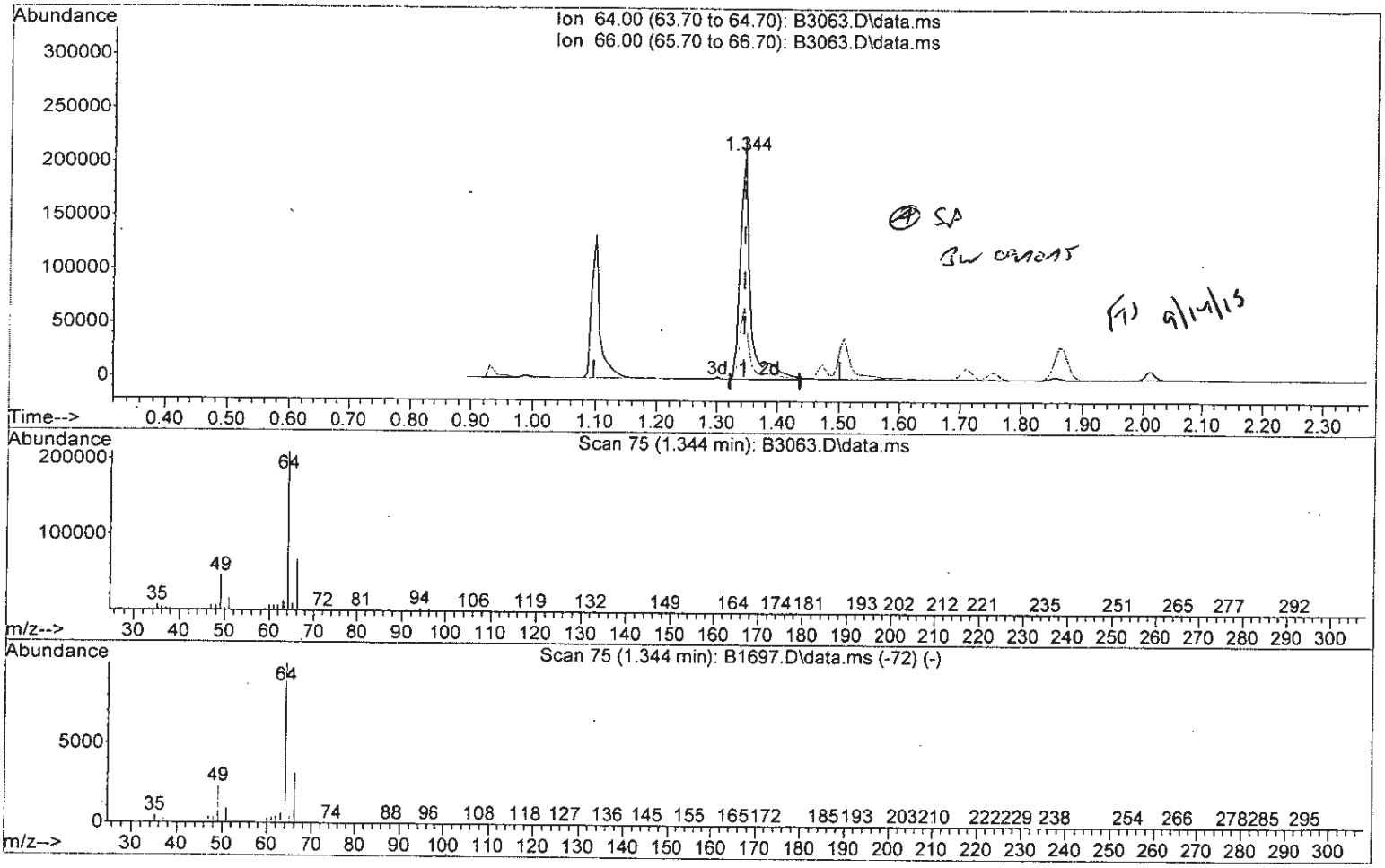
1.344min (-0.000) 165.10 ug/L

response 214527

Ion	Exp%	Act%
64.00	100	100
66.00	33.40	31.85
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3063.D
Acq On : 10 Sep 2015 12:23 pm
Operator : B Wojtasiewicz
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 14:14:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3063.D\data.ms

(6) Chloroethane (P)

1.344min (-0.000) 186.41 ug/L m

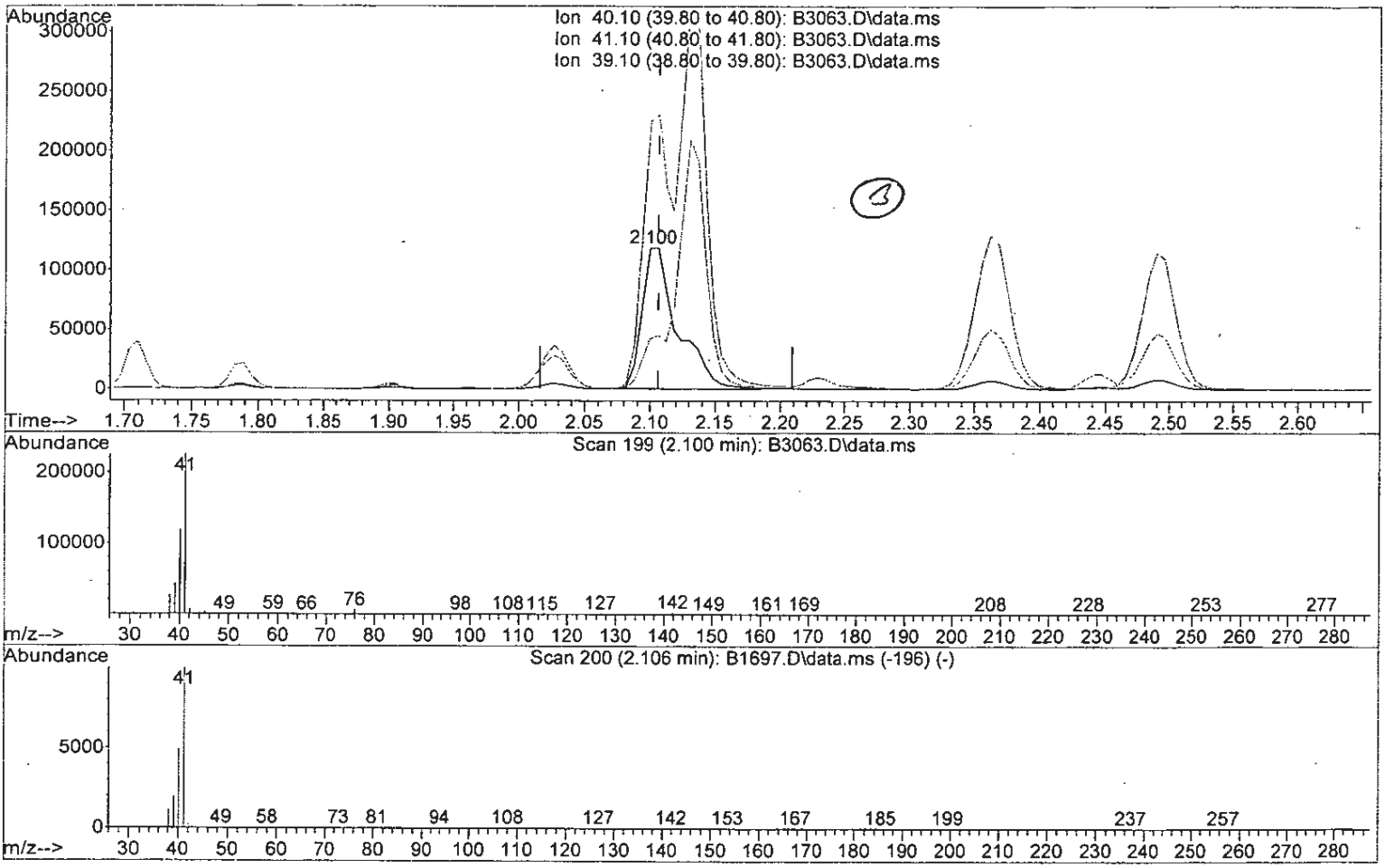
response 242211

Ion	Exp%	Act%
64.00	100	100
66.00	33.40	31.85
0.00	0.00	0.00
0.00	0.00	0.00

0042

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3063.D
Acq On : 10 Sep 2015 12:23 pm
Operator : B Wojtasiewicz
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 14:14:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3063.D\data.ms

(19) Acetonitrile

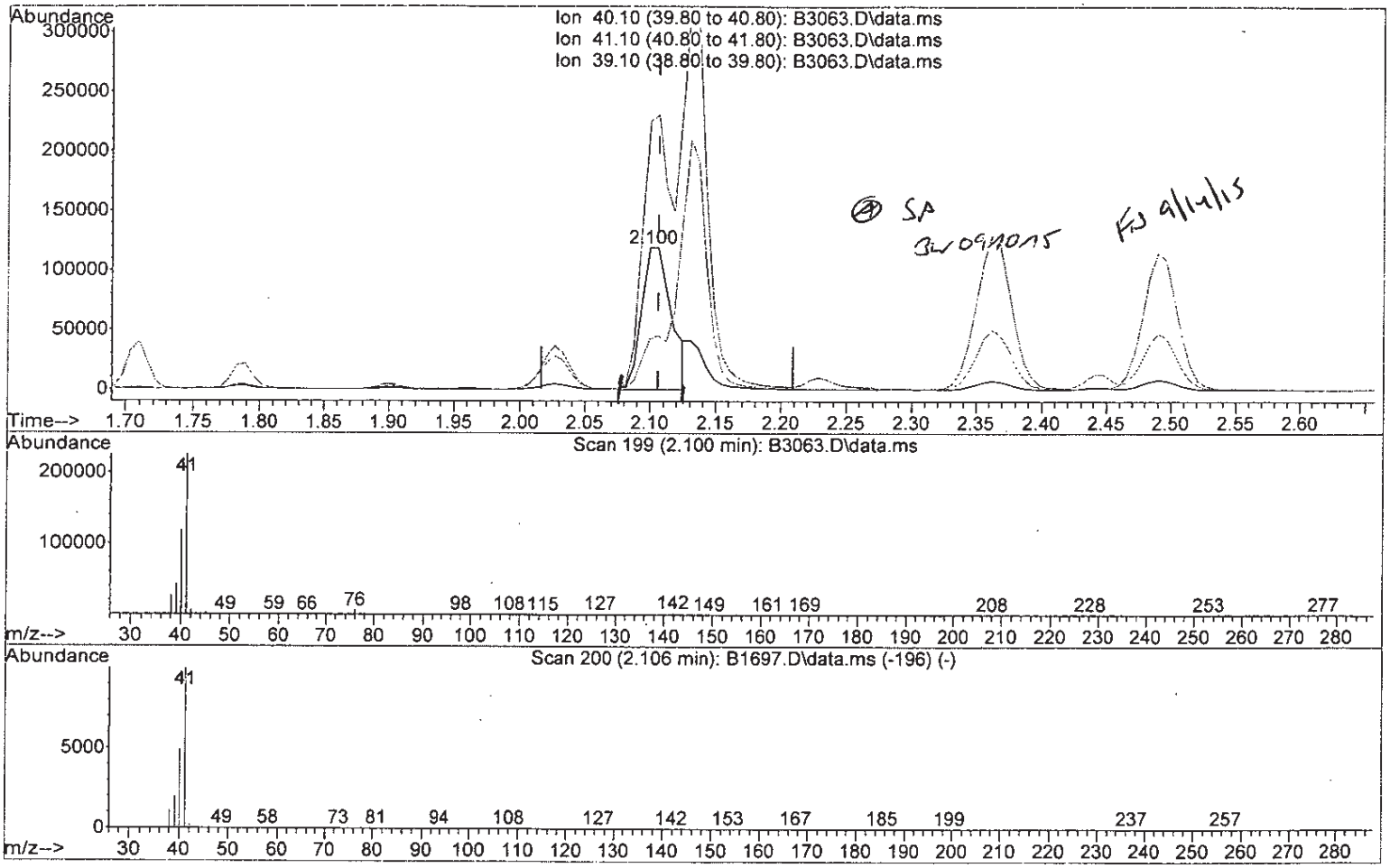
2.100min (-0.006) 1460.48 ug/L

response 224205

Ion	Exp%	Act%
40.10	100	100
41.10	191.80	189.51
39.10	39.30	35.79
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3063.D
Acq On : 10 Sep 2015 12:23 pm
Operator : B Wojtasiewicz
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 14:14:12 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



TIC: B3063.D\data.ms

(19) Acetonitrile

2.100min (-0.006) 1197.64 ug/L m

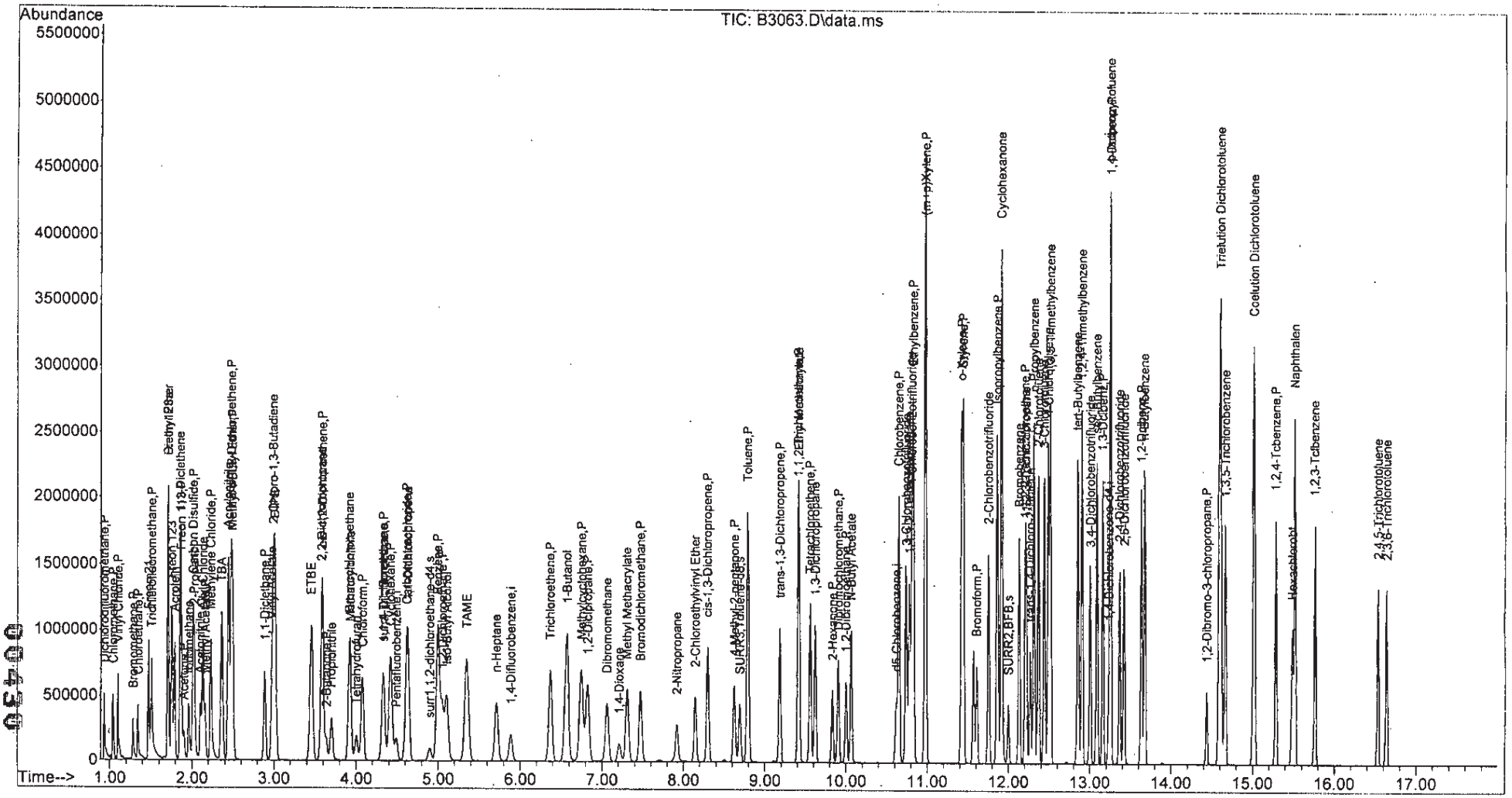
response 183855

Ion	Exp%	Act%
40.10	100	100
41.10	191.80	189.51
39.10	39.30	35.79
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3063.D
Acq On : 10 Sep 2015 12:23 pm
Operator : B Wojtasiewicz
Sample : 200 ppb Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 14:15:29 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 12:08:32 2015
Response via : Initial Calibration



Initial Calibration Verification Summary Report

AW 09/10/15

Calibration ID: RC1500090

Instrument ID: R-MS-14
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
1,1,1,2-Tetrachloroethane	RC1500090-10	T	Average RF	50	48.36	ppm	-3.3	<=30
1,1,1-Trichloroethane (TCA)	RC1500090-10	T	Average RF	50	47.45	ppm	-5.1	<=30
1,1,2,2-Tetrachloroethane	RC1500090-10	T	Average RF	50	46.89	ppm	-6.2	<=30
1,1,2-Trichloroethane	RC1500090-10	T	Average RF	50	46.78	ppm	-6.4	<=30
1,1,2-Trichlorotrifluoroethane	RC1500090-10	T	Average RF	50	44.22	ppm	-11.6	<=30
1,1-Dichloroethane (1,1-DCA)	RC1500090-10	T	Average RF	50	45.71	ppm	-8.6	<=30
1,1-Dichloroethene (1,1-DCE)	RC1500090-10	T	Average RF	50	46.03	ppm	-7.9	<=30
1,1-Dichloropropene	RC1500090-10	T	Average RF	50	45.01	ppm	-10.0	<=30
1,2,3-Trichlorobenzene	RC1500090-10	T	Average RF	50	48.01	ppm	-4.0	<=30
1,2,3-Trichloropropane	RC1500090-10	T	Average RF	50	47.66	ppm	-4.7	<=30
1,2,4-Trichlorobenzene	RC1500090-10	T	Average RF	50	49.02	ppm	-2.0	<=30
1,2,4-Trimethylbenzene	RC1500090-10	T	Average RF	50	47.99	ppm	-4.0	<=30
1,2-Dibromo-3-chloropropane (DBCP)	RC1500090-10	T	Average RF	50	49.38	ppm	-1.2	<=30
1,2-Dibromoethane	RC1500090-10	T	Average RF	50	47.70	ppm	-4.6	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1500090-10	T	Average RF	50	52.55	ppm	5.1	<=30
1,2-Dichlorobenzene	RC1500090-10	T	Average RF	50	46.61	ppm	-6.8	<=30
1,2-Dichloroethane	RC1500090-10	T	Average RF	50	46.24	ppm	-7.5	<=30
1,2-Dichloropropane	RC1500090-10	T	Average RF	50	46.36	ppm	-7.3	<=30
1,3,5-Trichlorobenzene	RC1500090-10	T	Average RF	50	50.17	ppm	0.3	<=30
1,3,5-Trimethylbenzene	RC1500090-10	T	Average RF	50	47.86	ppm	-4.3	<=30
1,3-Dichlorobenzene	RC1500090-10	T	Average RF	50	47.57	ppm	-4.9	<=30
1,3-Dichloropropane	RC1500090-10	T	Average RF	50	46.67	ppm	-6.7	<=30
1,4-Dichlorobenzene	RC1500090-10	T	Average RF	50	47.04	ppm	-5.9	<=30
1,4-Dioxane	RC1500090-10	T	Average RF	1000	974.9	ppm	-2.5	<=30
1-Butanol	RC1500090-10	T	Quadratic	2500	2401	ppm	-4.0	<=30
1-Chloro-4-(trifluoromethyl)benzene	RC1500090-10	T	Average RF	50	50.04	ppm	0.1	<=30
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1500090-10	T	Average RF	50	49.99	ppm	0.0	<=30
2,2-Dichloropropane	RC1500090-10	T	Average RF	50	48.34	ppm	-3.3	<=30
2,3,6-Trichlorotoluene	RC1500090-10	T	Average RF	50	54.09	ppm	8.2	<=30
2,4,5-Trichlorotoluene	RC1500090-10	T	Average RF	50	55.15	ppm	10.3	<=30
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	RC1500090-10	T	Average RF	150	150.1	ppm	0.1	<=30
2,4-Dichlorobenzotrifluoride	RC1500090-10	T	Average RF	50	49.78	ppm	-0.4	<=30
2,5-Dichlorobenzotrifluoride	RC1500090-10	T	Average RF	50	49.89	ppm	-0.2	<=30
2-Butanone (MEK)	RC1500090-10	T	Average RF	50	47.10	ppm	-5.8	<=30
2-Chloro-1,3-butadiene	RC1500090-10	T	Average RF	50	45.57	ppm	-8.9	<=30
2-Chlorobenzotrifluoride	RC1500090-10	T	Average RF	50	48.16	ppm	-3.7	<=30
2-Chloroethyl Vinyl Ether	RC1500090-10	T	Average RF	50	51.59	ppm	3.2	<=30
2-Chlorotoluene	RC1500090-10	T	Average RF	50	45.51	ppm	-9.0	<=30
2-Hexanone	RC1500090-10	T	Average RF	50	49.90	ppm	-0.2	<=30
2-Methyl-1-propanol	RC1500090-10	T	Average RF	1000	974.0	ppm	-2.6	<=30
2-Methyl-2-propanol	RC1500090-10	T	Average RF	1000	947.7	ppm	-5.2	<=30
2-Nitropropane	RC1500090-10	T	Quadratic	100	100.6	ppm	0.6	<=30
2-Propanol	RC1500090-10	T	Average RF	1000	969.5	ppm	-3.0	<=30
3,4- and 2,3-Dichlorotoluene Coelution	RC1500090-10	T	Average RF	100	99.19	ppm	-0.8	<=30
3,4-Dichlorobenzotrifluoride	RC1500090-10	T	Average RF	50	50.54	ppm	1.1	<=30
3-Chloro-1-propene	RC1500090-10	T	Average RF	50	49.62	ppm	-0.8	<=30
3-Chlorobenzotrifluoride	RC1500090-10	T	Average RF	50	49.86	ppm	-0.3	<=30
3-Chlorotoluene	RC1500090-10	T	Average RF	50	46.87	ppm	-6.3	<=30
4-Chlorotoluene	RC1500090-10	T	Average RF	50	47.68	ppm	-4.6	<=30
4-Isopropyltoluene	RC1500090-10	T	Average RF	50	49.97	ppm	-0.1	<=30
4-Methyl-2-pentanone	RC1500090-10	T	Average RF	50	48.35	ppm	-3.3	<=30

Initial Calibration Verification Summary Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Column Name:	I

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Acetone	RC1500090-10	T	Average RF	50	46.99	ppm	-6.0	<=30
Acetonitrile	RC1500090-10	T	Average RF	250	231.6	ppm	-7.4	<=30
Acrolein	RC1500090-11	T	Average RF	100	82.45	ppm	-17.5	<=30
Acrylonitrile	RC1500090-10	T	Average RF	250	228.4	ppm	-8.6	<=30
Benzene	RC1500090-10	T	Average RF	50	45.94	ppm	-8.1	<=30
Bromobenzene	RC1500090-10	T	Average RF	50	46.36	ppm	-7.3	<=30
Bromochloromethane	RC1500090-10	T	Average RF	50	47.72	ppm	-4.6	<=30
Bromodichloromethane	RC1500090-10	T	Average RF	50	49.33	ppm	-1.3	<=30
Bromoform	RC1500090-10	T	Average RF	50	50.00	ppm	0.0	<=30
Bromomethane	RC1500090-10	T	Average RF	50	39.18	ppm	-21.6	<=30
Carbon Disulfide	RC1500090-10	T	Average RF	50	53.97	ppm	7.9	<=30
Carbon Tetrachloride	RC1500090-10	T	Quadratic	50	49.19	ppm	-1.6	<=30
Chlorobenzene	RC1500090-10	T	Average RF	50	46.76	ppm	-6.5	<=30
Chloroethane	RC1500090-10	T	Average RF	50	47.72	ppm	-4.6	<=30
Chloroform	RC1500090-10	T	Average RF	50	46.67	ppm	-6.7	<=30
Chloromethane	RC1500090-10	T	Average RF	50	45.96	ppm	-8.1	<=30
Cyclohexane	RC1500090-10	T	Average RF	50	49.48	ppm	-1.0	<=30
Cyclohexanone	RC1500090-10	T	Average RF	1000	923.1	ppm	-7.7	<=30
Dibromochloromethane	RC1500090-10	T	Average RF	50	49.02	ppm	-2.0	<=30
Dibromomethane	RC1500090-10	T	Average RF	50	48.39	ppm	-3.2	<=30
Dichlorodifluoromethane (CFC 12)	RC1500090-10	T	Average RF	50	53.81	ppm	7.6	<=30
Dichlorofluoromethane (CFC 21)	RC1500090-10	T	Average RF	50	54.46	ppm	8.9	<=30
Dichloromethane	RC1500090-10	T	Average RF	50	47.22	ppm	-5.6	<=30
Diethyl Ether	RC1500090-10	T	Average RF	50	40.38	ppm	-19.2	<=30
Diisopropyl Ether	RC1500090-10	T	Average RF	50	42.60	ppm	-14.8	<=30
Ethyl Methacrylate	RC1500090-10	T	Average RF	50	50.59	ppm	1.2	<=30
Ethyl tert-Butyl Ether	RC1500090-10	T	Average RF	50	41.89	ppm	-16.2	<=30
Ethylbenzene	RC1500090-10	T	Average RF	50	43.24	ppm	-13.5	<=30
Hexachlorobutadiene	RC1500090-10	T	Average RF	50	54.05	ppm	8.1	<=30
Iodomethane	RC1500090-10	T	Quadratic	50	52.78	ppm	5.6	<=30
Isopropylbenzene (Cumene)	RC1500090-10	T	Average RF	50	46.96	ppm	-6.1	<=30
Methacrylonitrile	RC1500090-10	T	Average RF	50	47.36	ppm	-5.3	<=30
Methyl Acetate	RC1500090-10	T	Average RF	50	45.67	ppm	-8.7	<=30
Methyl Methacrylate	RC1500090-10	T	Average RF	50	49.07	ppm	-1.9	<=30
Methyl tert-Butyl Ether	RC1500090-10	T	Average RF	50	47.10	ppm	-5.8	<=30
Methylcyclohexane	RC1500090-10	T	Average RF	50	51.86	ppm	3.7	<=30
Naphthalene	RC1500090-10	T	Average RF	50	48.79	ppm	-2.4	<=30
Propionitrile	RC1500090-10	T	Average RF	250	237.7	ppm	-4.9	<=30
Styrene	RC1500090-10	T	Average RF	50	48.49	ppm	-3.0	<=30
Tetrachloroethene (PCE)	RC1500090-10	T	Average RF	50	47.70	ppm	-4.6	<=30
Tetrahydrofuran (THF)	RC1500090-10	T	Average RF	50	48.80	ppm	-2.4	<=30
Toluene	RC1500090-10	T	Average RF	50	45.91	ppm	-8.2	<=30
Trichloroethene (TCE)	RC1500090-10	T	Average RF	50	47.30	ppm	-5.4	<=30
Trichlorofluoromethane (CFC 11)	RC1500090-10	T	Average RF	50	49.61	ppm	-0.8	<=30
Vinyl Acetate	RC1500090-10	T	Average RF	50	52.68	ppm	5.4	<=30
Vinyl Chloride	RC1500090-10	T	Average RF	50	51.10	ppm	2.2	<=30
cis-1,2-Dichloroethene	RC1500090-10	T	Average RF	50	47.01	ppm	-6.0	<=30
cis-1,3-Dichloropropene	RC1500090-10	T	Average RF	50	49.79	ppm	-0.4	<=30
m,p-Xylenes	RC1500090-10	T	Average RF	100	95.52	ppm	-4.5	<=30
n-Butyl Acetate	RC1500090-10	T	Average RF	50	52.51	ppm	5.0	<=30
n-Butylbenzene	RC1500090-10	T	Average RF	50	51.87	ppm	3.7	<=30

Initial Calibration Verification Summary Report

Calibration ID:	RC1500090	**Instrument ID:**	R-MS-14
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
n-Heptane	RC1500090-10	T	Average RF	50	51.49	ppm	3.0	<=30
n-Propylbenzene	RC1500090-10	T	Average RF	50	47.17	ppm	-5.7	<=30
o-Xylene	RC1500090-10	T	Average RF	50	47.36	ppm	-5.3	<=30
sec-Butylbenzene	RC1500090-10	T	Average RF	50	48.55	ppm	-2.9	<=30
tert-Amyl Methyl Ether	RC1500090-10	T	Average RF	50	44.36	ppm	-11.3	<=30
tert-Butylbenzene	RC1500090-10	T	Average RF	50	46.91	ppm	-6.2	<=30
trans-1,2-Dichloroethene	RC1500090-10	T	Average RF	50	48.18	ppm	-3.6	<=30
trans-1,3-Dichloropropene	RC1500090-10	T	Average RF	50	51.33	ppm	2.7	<=30
trans-1,4-Dichloro-2-butene	RC1500090-10	T	Average RF	50	52.30	ppm	4.6	<=30
1,2-Dichloroethane-d4	RC1500090-10	S	Average RF	50	50.36	ppm	0.7	<=30
4-Bromofluorobenzene	RC1500090-10	S	Average RF	50	49.68	ppm	-0.6	<=30
Dibromofluoromethane	RC1500090-10	S	Average RF	50	50.82	ppm	1.6	<=30
Toluene-d8	RC1500090-10	S	Average RF	50	49.61	ppm	-0.8	<=30

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3065.D
Acq On : 10 Sep 2015 1:20 pm
Operator : B Wojtasiewicz
Sample : ICV 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 10 15:24:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

BW 091015

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	185190	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	278137	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	247723	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	127172	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	89600	50.82	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.64%			
47) surr1,1,2-dichloroetha...	4.892	65	101023	50.36	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.72%			
64) SURR3,Toluene-d8	8.690	98	341212	49.61	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.22%			
69) SURR2,BFB	11.994	95	129998	49.68	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.36%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.929	85	80514	53.81	ug/L	96
3) Chloromethane	1.039	50	80539	45.96	ug/L	99
4) Vinyl Chloride	1.100	62	97325	51.10	ug/L	99
5) Bromomethane	1.283	94	40153m	39.18	ug/L	
6) Chloroethane	1.344	64	59408	47.72	ug/L	97
7) Freon 21	1.472	67	177898	54.46	ug/L	98
8) Trichlorofluoromethane	1.509	101	113667	49.61	ug/L	97
9) Diethyl Ether	1.710	59	76507	40.38	ug/L	94
10) Freon 123a	1.710	67	108375	52.55	ug/L	100
11) Freon 123	1.752	83	122601	49.99	ug/L	99
12) Acrolein	1.783	56	27800	58.69	ug/L	98
13) 1,1-Diclethene	1.856	96	73786	46.03	ug/L	89
14) Freon 113	1.868	101	72072	44.22	ug/L	94
15) Acetone	1.899	43	40853	46.99	ug/L	98
16) 2-Propanol	2.015	45	166791	969.55	ug/L	92
17) Iodomethane	1.960	142	93055	52.78	ug/L	99
18) Carbon Disulfide	2.015	76	237853	53.97	ug/L	100
19) Acetonitrile	2.100	40	44542	231.57	ug/L	96
20) Allyl Chloride	2.130	76	43905	49.62	ug/L #	81
21) Methyl Acetate	2.155	43	83054	45.67	ug/L	93
22) Methylene Chloride	2.228	84	90602	47.22	ug/L	93
23) TBA	2.356	59	280929	947.66	ug/L	88
24) Acrylonitrile	2.441	53	224199	228.45	ug/L	95
25) Methyl-t-Butyl Ether	2.490	73	273386	47.10	ug/L	99
26) trans-1,2-Dichloroethene	2.472	96	84638	48.18	ug/L	92
27) 1,1-Diclethane	2.886	63	141605	45.71	ug/L	99
28) Vinyl Acetate	2.972	86	22790	52.68	ug/L #	71
29) DIPE	3.008	45	232998	42.60	ug/L	96
30) 2-Chloro-1,3-Butadiene	2.990	53	129705	45.57	ug/L	100
31) ETBE	3.453	59	236622	41.89	ug/L	97
32) 2,2-Dichloropropane	3.581	77	116904	48.34	ug/L	98
33) cis-1,2-Dichloroethene	3.587	96	95089	47.01	ug/L	88
34) 2-Butanone	3.636	43	57269	47.10	ug/L	91
35) Propionitrile	3.691	54	95809	237.75	ug/L	100

00434

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3065.D
Acq On : 10 Sep 2015 1:20 pm
Operator : B Wojtasiewicz
Sample : ICV 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 10 15:24:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	3.917	130	61058	47.72 ug/L	96
37) Methacrylonitrile	3.923	67	49303	47.36 ug/L #	74
38) Tetrahydrofuran	4.002	42	34684	48.80 ug/L	95
39) Chloroform	4.075	83	149519	46.67 ug/L	99
40) 1,1,1-Trichloroethane	4.331	97	123265	47.45 ug/L	96
41) TAME	5.343	73	242026	44.36 ug/L	99
43) Cyclohexane	4.417	41	70419	49.48 ug/L	93
45) Carbontetrachloride	4.612	121	29836	49.19 ug/L	95
46) 1,1-Dichloropropene	4.624	75	105798	45.01 ug/L	99
48) Benzene	4.996	78	341196	45.94 ug/L	96
49) 1,2-Dichloroethane	5.045	62	116973	46.24 ug/L	94
50) Iso-Butyl Alcohol	5.081	43	117425	974.00 ug/L	96
51) n-Heptane	5.709	43	79458	51.49 ug/L	92
52) 1-Butanol	6.544	56	204279	2400.55 ug/L	99
53) Trichloroethene	6.361	130	89451	47.30 ug/L	97
54) Methylcyclohexane	6.745	55	99739	51.86 ug/L	90
55) 1,2-Diclpropane	6.819	63	87354	46.36 ug/L	97
56) Dibromomethane	7.056	93	59769	48.39 ug/L	99
57) 1,4-Dioxane	7.203	88	39044	974.91 ug/L	98
58) Methyl Methacrylate	7.306	69	78756	49.07 ug/L	94
59) Bromodichloromethane	7.465	83	111609	49.33 ug/L	97
60) 2-Nitropropane	7.916	41	42020	100.60 ug/L	86
61) 2-Chloroethylvinyl Ether	8.141	63	61425	51.59 ug/L	90
62) cis-1,3-Dichloropropene	8.294	75	135886	49.79 ug/L	97
63) 4-Methyl-2-pentanone	8.617	43	100896	48.35 ug/L	98
65) Toluene	8.788	91	369546	45.91 ug/L	95
66) trans-1,3-Dichloropropene	9.178	75	122540	51.33 ug/L	96
67) Ethyl Methacrylate	9.416	69	137051	50.59 ug/L	96
68) 1,1,2-Trichloroethane	9.409	97	87573	46.78 ug/L	99
71) Tetrachloroethene	9.556	164	70057	47.70 ug/L	95
72) 2-Hexanone	9.824	43	77868	49.90 ug/L	99
73) 1,3-Dichloropropane	9.617	76	147448	46.67 ug/L	97
74) Dibromochloromethane	9.897	129	87907	49.02 ug/L	96
75) N-Butyl Acetate	10.056	43	157965	52.51 ug/L	98
76) 1,2-Dibromoethane	9.995	107	89985	47.70 ug/L	99
77) 3-Chlorobenzotrifluoride	10.732	180	128930	49.86 ug/L	97
78) Chlorobenzene	10.647	112	241990	46.76 ug/L	98
79) 4-Chlorobenzotrifluoride	10.806	180	116975	50.04 ug/L	98
80) 1,1,1,2-Tetrachloroethane	10.775	131	79344	48.36 ug/L	99
81) Ethylbenzene	10.824	106	115751	43.24 ug/L	91
82) (m+p)Xylene	10.970	106	309720	95.52 ug/L	97
83) o-Xylene	11.415	106	153248	47.36 ug/L	92
84) Styrene	11.440	104	262946	48.49 ug/L	97
85) Bromoform	11.604	173	60968	50.00 ug/L	98
86) 2-Chlorobenzotrifluoride	11.751	180	124964	48.16 ug/L	95
87) Isopropylbenzene	11.854	105	370531	46.96 ug/L	98
88) Cyclohexanone	11.903	55	357281	923.10 ug/L	96
89) trans-1,4-Dichloro-2-B...	12.263	53	32639	52.30 ug/L	79
91) 1,1,2,2-Tetrachloroethane	12.202	83	131950	46.89 ug/L	100
92) Bromobenzene	12.128	156	99361	46.36 ug/L	99
93) 1,2,3-Trichloropropane	12.214	110	40032	47.66 ug/L #	81

00435

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3065.D
Acq On : 10 Sep 2015 1:20 pm
Operator : B Wojtasiewicz
Sample : ICV 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 12 Sample Multiplier: 1

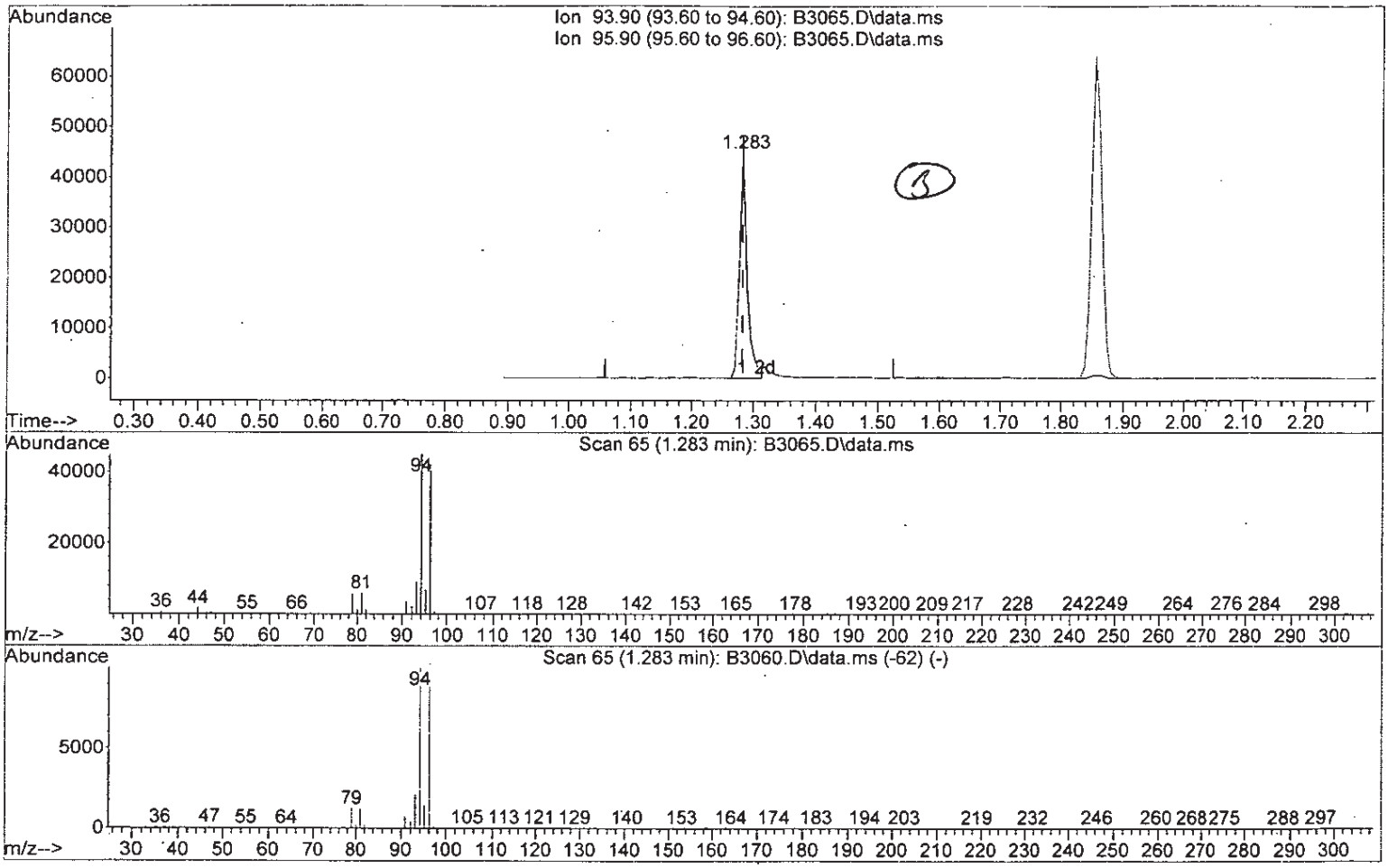
Quant Time: Sep 10 15:24:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	12.305	91	427559	47.17	ug/L	98
95)	2-Chlorotoluene	12.360	91	264170	45.51	ug/L	95
96)	3-Chlorotoluene	12.433	91	278429	46.87	ug/L	95
97)	4-Chlorotoluene	12.488	91	318504	47.68	ug/L	99
98)	1,3,5-Trimethylbenzene	12.513	105	305219	47.86	ug/L	99
99)	tert-Butylbenzene	12.848	119	247651	46.91	ug/L	96
100)	1,2,4-Trimethylbenzene	12.897	105	313907	47.99	ug/L	99
101)	3,4-Dichlorobenzotrifl...	13.000	214	91350	50.54	ug/L	100
102)	sec-Butylbenzene	13.086	105	360317	48.55	ug/L	98
103)	p-Isopropyltoluene	13.250	119	307322	49.97	ug/L	99
104)	1,3-Dclbenz	13.159	146	185160	47.57	ug/L	98
105)	1,4-Dclbenz	13.256	146	191119	47.04	ug/L	97
106)	2,4-Dichlorobenzotrifl...	13.366	214	81488	49.78	ug/L	97
107)	2,5-Dichlorobenzotrifl...	13.415	214	94077	49.89	ug/L	99
108)	n-Butylbenzene	13.671	91	282049	51.87	ug/L	99
109)	1,2-Dclbenz	13.628	146	182648	46.61	ug/L	100
110)	1,2-Dibromo-3-chloropr...	14.433	157	28295	49.38	ug/L	95
111)	Trielution Dichlorotol...	14.604	125	449619	150.10	ug/L	98
112)	1,3,5-Trichlorobenzene	14.658	180	126554	50.17	ug/L	97
113)	Coelution Dichlorotoluene	15.012	125	338546	99.19	ug/L	99
114)	1,2,4-Tcbenzene	15.280	180	121445	49.02	ug/L	96
115)	Hexachlorobt	15.482	225	48712	54.05	ug/L	95
116)	Naphthalen	15.512	128	390312	48.79	ug/L	99
117)	1,2,3-Tclbenzene	15.762	180	116484	48.01	ug/L	98
118)	2,4,5-Trichlorotoluene	16.530	159	75639	55.15	ug/L	99
119)	2,3,6-Trichlorotoluene	16.634	159	69600	54.09	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3065.D
Acq On : 10 Sep 2015 1:20 pm
Operator : B Wojtasiewicz
Sample : ICV 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 10 14:43:19 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3065.D\data.ms

(5) Bromomethane (P)

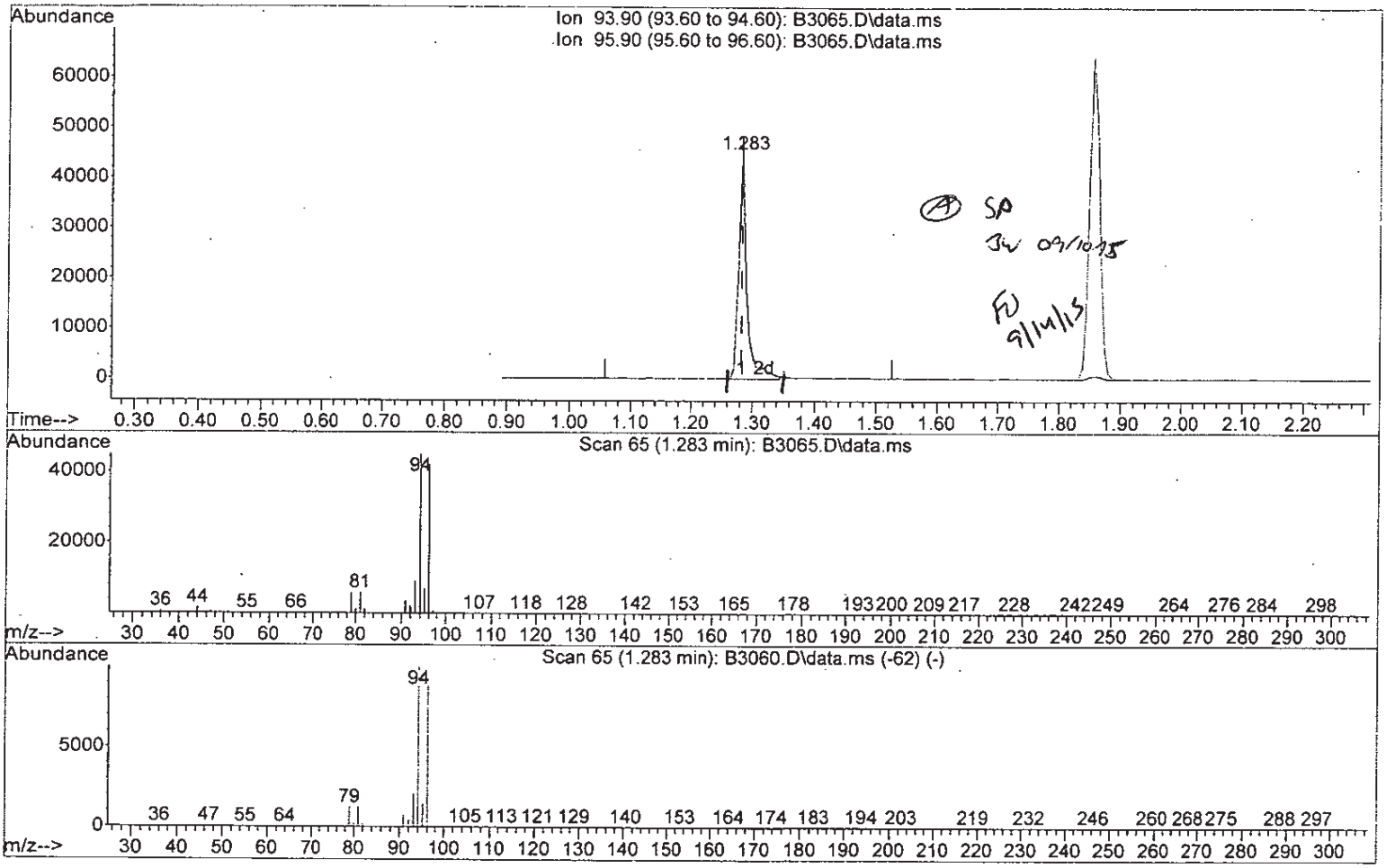
1.283min (+0.000) 36.84 ug/L

response 37753

Ion	Exp%	Act%
93.90	100	100
95.90	92.90	93.60
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3065.D
Acq On : 10 Sep 2015 1:20 pm
Operator : B Wojtasiewicz
Sample : ICV 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 10 14:43:19 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3065.D\data.ms

(5) Bromomethane (P)

1.283min (+0.000) 39.18 ug/L m

response 40153

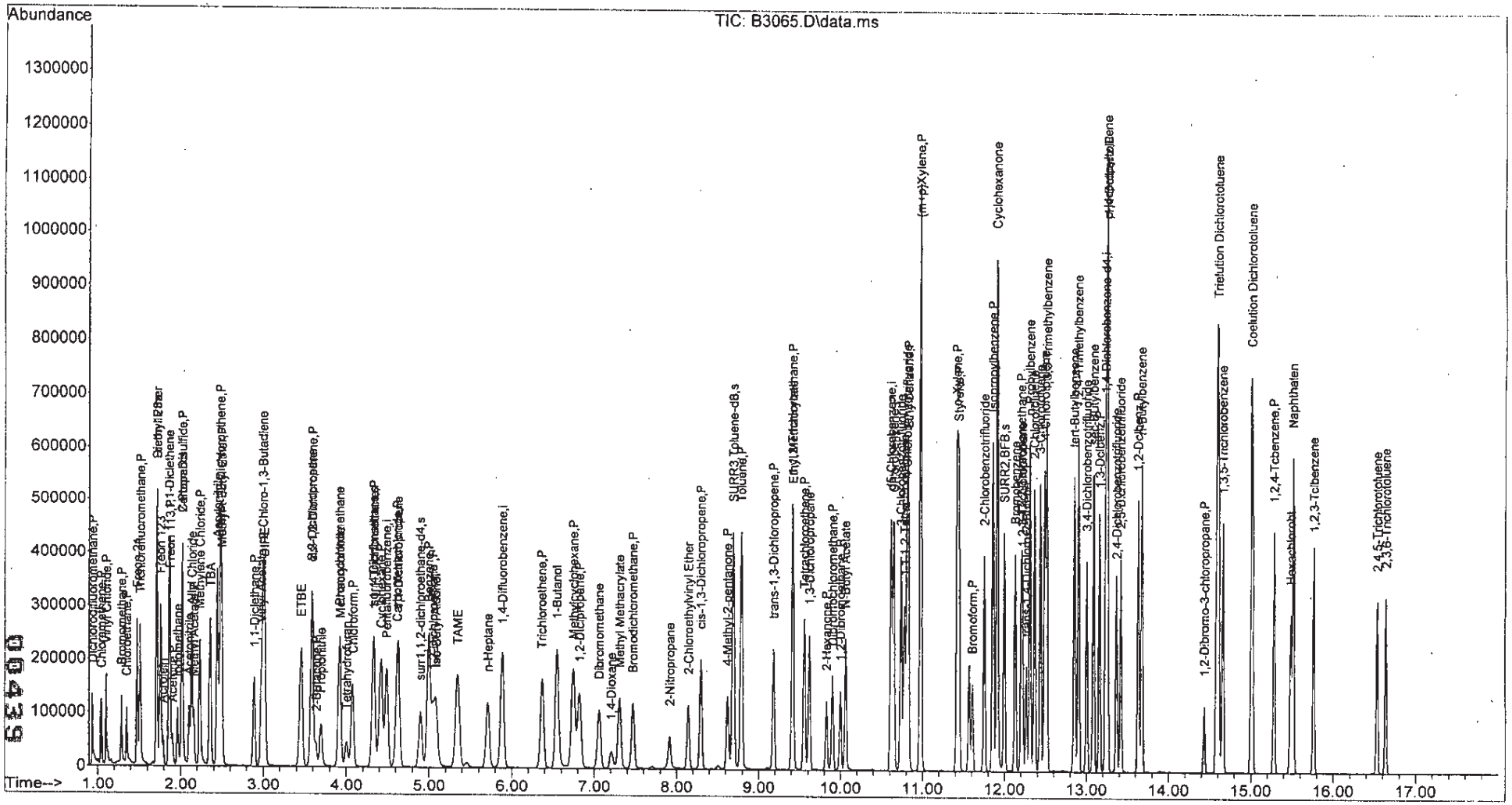
Ion	Exp%	Act%
93.90	100	100
95.90	92.90	93.60
0.00	0.00	0.00
0.00	0.00	0.00

00438

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3065.D
Acq On : 10 Sep 2015 1:20 pm
Operator : B Wojtasiewicz
Sample : ICV 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 10 15:24:45 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3067.D
Acq On : 10 Sep 2015 3:20 pm
Operator : B Wojtasiewicz
Sample : ICV - HSL 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 15:42:06 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

BW 091015 evaluated for Acrolein only

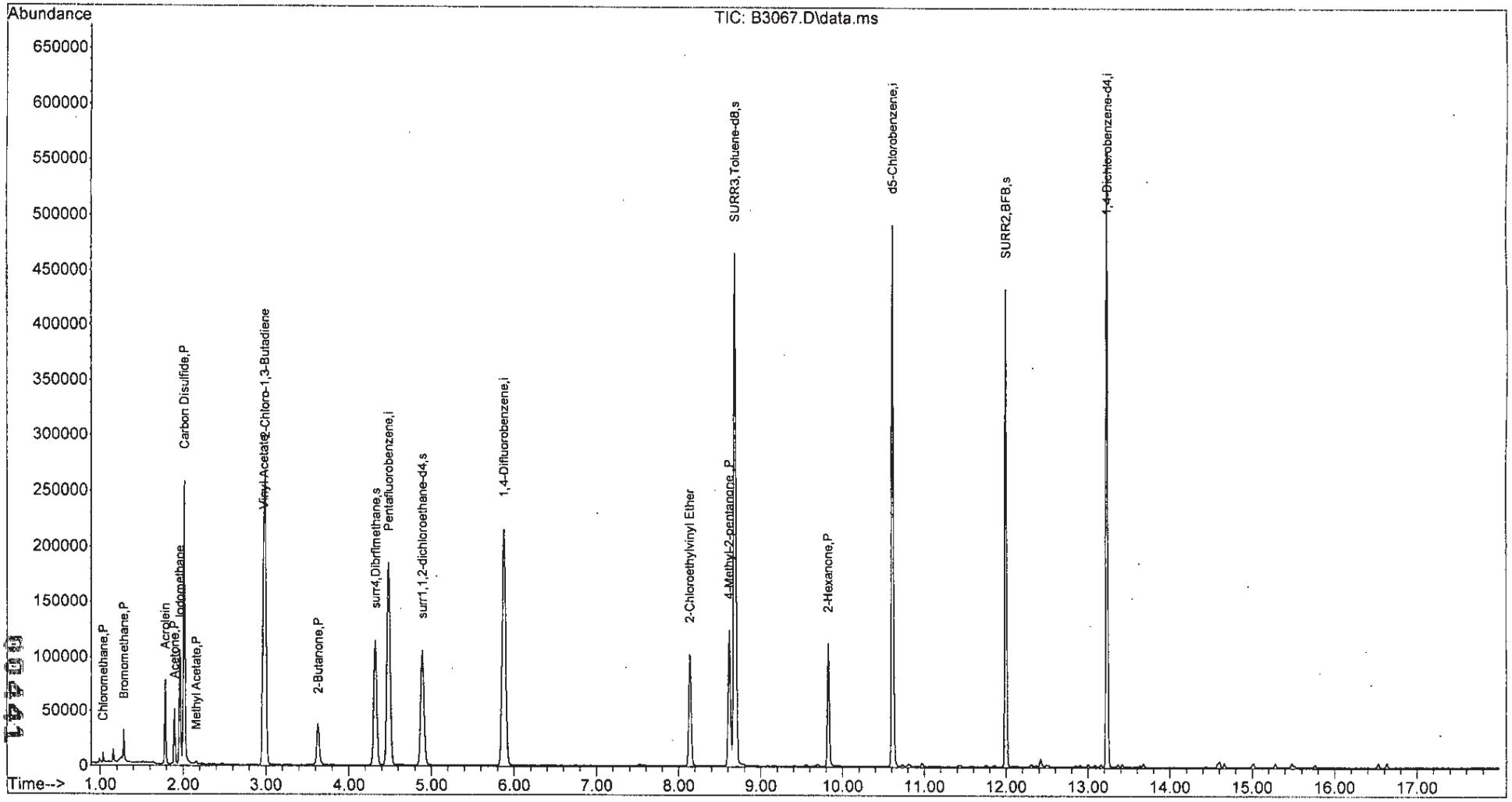
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	188497	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.880	114	286742	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	252663	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	127645	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	90146	49.60	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.20%			
47) surr1,1,2-dichloroetha...	4.892	65	103203	49.90	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.80%			
64) SURR3,Toluene-d8	8.684	98	352406	49.70	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.40%			
69) SURR2,BFB	11.995	95	132864	49.25	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.50%			
Target Compounds						Qvalue
3) Chloromethane	1.033	50	3387	1.90	ug/L	99
5) Bromomethane	1.283	94	9152	8.77	ug/L	98
12) Acrolein	1.783	56	39751	82.45	ug/L	99
15) Acetone	1.893	43	39743	44.91	ug/L	98
17) Iodomethane	1.960	142	84346	47.53	ug/L	98
18) Carbon Disulfide	2.015	76	254054	56.63	ug/L	100
21) Methyl Acetate	2.155	43	2440	1.32	ug/L	88
28) Vinyl Acetate	2.972	86	20403	46.34	ug/L #	59
30) 2-Chloro-1,3-Butadiene	2.990	53	136388	47.08	ug/L	97
34) 2-Butanone	3.630	43	52096	42.10	ug/L	92
61) 2-Chloroethylvinyl Ether	8.136	63	54121	44.09	ug/L	90
63) 4-Methyl-2-pentanone	8.617	43	92402	42.95	ug/L	97
72) 2-Hexanone	9.824	43	69384	43.59	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3067.D
Acq On : 10 Sep 2015 3:20 pm
Operator : B Wojtasiewicz
Sample : ICV - HSL 50 ppb Inst : MSVOA14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 15:42:06 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047
Date Analyzed: 9/26/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\MSVOA14\Data\092615\B3317.D\

Calibration Date: 9/10/15
Calibration ID: RC1500090
Analysis Lot: 464094
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	45.5	0.7013	0.6382	-9.0	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	46.9	0.8365	0.7848	-6.2	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	44.8	0.4328	0.3878	-10.4	NA	± 20 %	Average RF
Tetrachloroethene (PCE)	50.0	42.8	0.2965	0.2536	-14.5	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	45.4	0.3399	0.3084	-9.3	NA	± 20 %	Average RF
Vinyl Chloride	50.0	49.5	0.5143	0.5095	-0.9	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	48.2	0.5462	0.5267	-3.6	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	49.2	0.4743	0.4671	-1.5	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	48.5	0.4704	0.4560	-3.1	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	48.9	0.3169	0.3098	-2.2	NA	± 20 %	Average RF
Toluene-d8	50.0	48.8	1.237	1.206	-2.5	NA	± 20 %	Average RF

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3317.D
Acq On : 26 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 28 06:34:16 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

10/2/15

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	i	Pentafluorobenzene	1.000	1.000	0.0	101	0.00	
2	P	Dichlorodifluoromethane	0.404	0.431	-6.7	97	0.00	
3	P	Chloromethane	0.473	0.461	2.5	97	0.00	
4	P	Vinyl Chloride	0.514	0.509	1.0	95	0.00	
5	P	Bromomethane	0.277	0.259	6.5	87	0.00	
6	P	Chloroethane	0.336	0.330	1.8	95	0.00	
7		Freon 21	0.882	0.788	10.7	88	0.00	
8	P	Trichlorofluoromethane	0.619	0.598	3.4	92	0.00	
9		Diethyl Ether	0.512	0.423	17.4	93	0.00	
10		Freon 123a	0.557	0.518	7.0	92	0.00	
11		Freon 123	0.662	0.615	7.1	90	0.00	
12		Acrolein	0.128	0.093	27.3#	71	0.00	NT
13		1,1-Diclethene	0.433	0.388	10.4	88	0.00	
14	P	Freon 113	0.440	0.409	7.0	90	0.00	
15	P	Acetone	0.235	0.198	15.7	90	0.00	
16		2-Propanol	0.046	0.036	21.7#	81	0.00	NT
17		Iodomethane	0.466	0.463	0.6	89	0.00	
18	P	Carbon Disulfide	1.190	1.064	10.6	88	0.00	
19		Acetonitrile	0.052	0.043	17.3	86	0.00	
20		Allyl Chloride	0.239	0.237	0.8	91	0.00	
21	P	Methyl Acetate	0.491	0.414	15.7	89	0.00	
22	P	Methylene Chloride	0.518	0.501	3.3	96	0.00	
23		TBA	0.080	0.062	22.5#	78	0.00	NT
24		Acrylonitrile	0.265	0.243	8.3	91	0.00	
25	P	Methyl-t-Butyl Ether	1.567	1.403	10.5	87	0.00	
26	P	trans-1,2-Dichloroethene	0.474	0.467	1.5	95	0.00	
27	P	1,1-Diclethane	0.836	0.785	6.1	92	0.00	
28		Vinyl Acetate	0.117	0.108	7.7	84	0.00	
29		DIPE	1.477	1.369	7.3	91	0.00	
30		2-Chloro-1,3-Butadiene	0.768	0.740	3.6	92	0.00	
31		ETBE	1.525	1.313	13.9	86	0.00	
32		2,2-Dichloropropane	0.653	0.591	9.5	89	0.00	
33	P	cis-1,2-Dichloroethene	0.546	0.527	3.5	94	0.00	
34	P	2-Butanone	0.328	0.276	15.9	88	0.00	
35		Propionitrile	0.109	0.098	10.1	90	0.00	
36		Bromochloromethane	0.345	0.325	5.8	91	0.00	
37		Methacrylonitrile	0.281	0.253	10.0	90	0.00	
38		Tetrahydrofuran	0.192	0.176	8.3	88	0.00	
39	P	Chloroform	0.865	0.816	5.7	92	0.00	
40	P	1,1,1-Trichloroethane	0.701	0.638	9.0	88	0.00	
41		TAME	1.473	1.273	13.6	86	0.00	
42	i	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00	
43	P	Cyclohexane	0.256	0.239	6.6	94	0.00	
44	s	surr4,Dibrflmethane	0.317	0.310	2.2	100	0.00	
45	P	Carbontetrachloride	0.099	0.097	2.0	83	0.00	
46		1,1-Dichloropropene	0.423	0.379	10.4	92	0.00	

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3317.D
Acq On : 26 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 28 06:34:16 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
47	s	surr1,1,2-dichloroethane-d4	0.361	0.356	1.4	100	0.00	
48	P	Benzene	1.335	1.231	7.8	93	0.00	
49	P	1,2-Dichloroethane	0.455	0.407	10.5	91	0.00	
50		Iso-Butyl Alcohol	0.022	0.017	22.7#	81	0.00	NT
51		n-Heptane	0.277	0.274	1.1	98	0.00	
52		1-Butanol	0.014	0.012	14.3	81	0.00	
53	P	Trichloroethene	0.340	0.308	9.4	91	0.00	
54	P	Methylcyclohexane	0.346	0.334	3.5	97	0.00	
55	P	1,2-Diclpropane	0.339	0.306	9.7	92	-0.01	
56		Dibromomethane	0.222	0.205	7.7	92	0.00	
57		1,4-Dioxane	0.007	0.006	14.3	90	0.00	
58		Methyl Methacrylate	0.289	0.253	12.5	87	0.00	
59	P	Bromodichloromethane	0.407	0.372	8.6	89	0.00	
60		2-Nitropropane	0.073	0.056	23.3#	74	0.00	NT
61		2-Chloroethylvinyl Ether	0.214	0.191	10.7	86	0.00	
62	P	cis-1,3-Dichloropropene	0.491	0.460	6.3	90	0.00	
63	P	4-Methyl-2-pentanone	0.375	0.323	13.9	88	0.00	
64	s	SURR3,Toluene-d8	1.237	1.206	2.5	99	0.00	
65	P	Toluene	1.447	1.292	10.7	91	0.00	
66	P	trans-1,3-Dichloropropene	0.429	0.390	9.1	85	0.00	
67		Ethyl Methacrylate	0.487	0.446	8.4	89	0.00	
68	P	1,1,2-Trichloroethane	0.337	0.306	9.2	90	0.00	
69	s	SURR2,BFB	0.470	0.456	3.0	99	0.00	
70	i	d5-Chlorobenzene	1.000	1.000	0.0	104	0.00	
71	P	Tetrachloroethene	0.296	0.254	14.2	87	0.00	
72	P	2-Hexanone	0.315	0.271	14.0	87	0.00	
73		1,3-Dichloropropane	0.638	0.585	8.3	93	0.00	
74	P	Dibromochloromethane	0.362	0.314	13.3	85	0.00	
75		N-Butyl Acetate	0.607	0.515	15.2	85	0.00	
76	P	1,2-Dibromoethane	0.381	0.338	11.3	90	0.00	
77		3-Chlorobenzotrifluoride	0.522	0.000	100.0#	0#	-0.05	
78	P	Chlorobenzene	1.045	0.907	13.2	89	0.00	
79		4-Chlorobenzotrifluoride	0.472	0.000	100.0#	0#	0.00	
80		1,1,1,2-Tetrachloroethane	0.331	0.279	15.7	84	0.00	
81	P	Ethylbenzene	0.540	0.471	12.8	88	0.00	
82	P	(m+p)Xylene	0.654	0.579	11.5	89	0.00	
83	P	o-Xylene	0.653	0.567	13.2	87	0.00	
84	P	Styrene	1.094	1.013	7.4	90	0.00	
85	P	Bromoform	0.246	0.202	17.9	81	0.00	
86		2-Chlorobenzotrifluoride	0.524	0.000	100.0#	0#	-11.75#	
87	P	Isopropylbenzene	1.592	1.338	16.0	84	0.00	
88		Cyclohexanone	0.078	0.068	12.8	89	0.00	
89		trans-1,4-Dichloro-2-Butene	0.126	0.108	14.3	83	0.00	
90	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	
91	P	1,1,2,2-Tetrachloroethane	1.106	0.978	11.6	89	0.00	

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3317.D
Acq On : 26 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 28 06:34:16 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92		Bromobenzene	0.843	0.735	12.8	87	0.00
93		1,2,3-Trichloropropane	0.330	0.290	12.1	88	0.00
94		n-Propylbenzene	3.563	3.184	10.6	87	0.00
95		2-Chlorotoluene	2.282	1.954	14.4	86	0.00
96		3-Chlorotoluene	2.336	2.340	-0.2	101	0.06
97		4-Chlorotoluene	2.627	2.340	10.9	87	0.00
98		1,3,5-Trimethylbenzene	2.507	2.213	11.7	85	0.00
99		tert-Butylbenzene	2.076	1.778	14.4	84	0.00
100		1,2,4-Trimethylbenzene	2.572	2.262	12.1	85	0.00
101		3,4-Dichlorobenzotrifluorid	0.711	0.000	100.0#	0#	0.00
102		sec-Butylbenzene	2.918	2.536	13.1	84	0.00
103		p-Isopropyltoluene	2.418	2.112	12.7	85	0.00
104	P	1,3-Dclbenz	1.530	1.312	14.2	85	0.00
105	P	1,4-Dclbenz	1.598	1.346	15.8	85	0.00
106		2,4-Dichlorobenzotrifluorid	0.644	0.000	100.0#	0#	0.00
107		2,5-Dichlorobenzotrifluorid	0.741	0.000	100.0#	0#	0.00
108		n-Butylbenzene	2.138	1.979	7.4	88	0.00
109	P	1,2-Dclbenz	1.541	1.312	14.9	85	0.00
110	P	1,2-Dibromo-3-chloropropane	0.225	0.172	23.6#	76	0.00 NT
111		Trielution Dichlorotoluene	1.178	0.000	100.0#	0#	0.00
112		1,3,5-Trichlorobenzene	0.992	0.000	100.0#	0#	0.00
113		Coelution Dichlorotoluene	1.342	0.000	100.0#	0#	0.00
114	P	1,2,4-Tcbenzene	0.974	0.804	17.5	82	0.00
115		Hexachlorobt	0.354	0.308	13.0	89	0.00
116		Naphthalen	3.145	2.615	16.9	81	0.00
117		1,2,3-Tclbenzene	0.954	0.778	18.4	81	0.00
118		2,4,5-Trichlorotoluene	0.539	0.000	100.0#	0#	0.00
119		2,3,6-Trichlorotoluene	0.506	0.000	100.0#	0#	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3317.D
Acq On : 26 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 28 06:34:16 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.484	168	170980	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	5.880	114	264829	50.00	ug/L		0.00
70) d5-Chlorobenzene	10.611	117	236969	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	118231	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.325	113	82052	48.88	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 97.76%				
47) surr1,1,2-dichloroetha...	4.898	65	94389	49.41	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.82%				
64) SURR3,Toluene-d8	8.690	98	319283	48.75	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.50%				
69) SURR2,BFB	11.995	95	120759	48.47	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.94%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.930	85	73613	53.29	ug/L		94
3) Chloromethane	1.039	50	78761	48.68	ug/L		100
4) Vinyl Chloride	1.100	62	87109	49.53	ug/L		97
5) Bromomethane	1.283	94	44354	46.87	ug/L		98
6) Chloroethane	1.344	64	56424	49.09	ug/L		97
7) Freon 21	1.472	67	134761	44.69	ug/L		96
8) Trichlorofluoromethane	1.509	101	102248	48.34	ug/L		98
9) Diethyl Ether	1.704	59	72342	41.35	ug/L		90
10) Freon 123a	1.710	67	88499	46.48	ug/L		96
11) Freon 123	1.753	83	105164	46.44	ug/L		97
12) Acrolein	1.783	56	79461	181.71	ug/L		100
13) 1,1-Diclethene	1.856	96	66301	44.80	ug/L		88
14) Freon 113	1.868	101	69934	46.47	ug/L		99
15) Acetone	1.899	43	33779	42.08	ug/L		97
16) 2-Propanol	2.015	45	124815	785.84	ug/L		93
17) Iodomethane	1.960	142	79211	49.05	ug/L		98
18) Carbon Disulfide	2.015	76	181903	44.70	ug/L		100
19) Acetonitrile	2.100	40	36483	205.43	ug/L		98
20) Allyl Chloride	2.131	76	40494	49.57	ug/L	#	77
21) Methyl Acetate	2.155	43	70752	42.14	ug/L		94
22) Methylene Chloride	2.228	84	85687	48.37	ug/L		89
23) TBA	2.350	59	210424	768.82	ug/L		93
24) Acrylonitrile	2.442	53	208158	229.73	ug/L		97
25) Methyl-t-Butyl Ether	2.490	73	239924	44.77	ug/L		99
26) trans-1,2-Dichloroethene	2.472	96	79866	49.24	ug/L		89
27) 1,1-Diclethane	2.887	63	134193	46.92	ug/L		99
28) Vinyl Acetate	2.972	86	18523	46.38	ug/L	#	61
29) DIPE	3.008	45	234071	46.35	ug/L		95
30) 2-Chloro-1,3-Butadiene	2.990	53	126562	48.16	ug/L		100
31) ETBE	3.454	59	224566	43.06	ug/L		98
32) 2,2-Dichloropropane	3.582	77	101125	45.30	ug/L		97
33) cis-1,2-Dichloroethene	3.588	96	90060	48.22	ug/L		92
34) 2-Butanone	3.630	43	47166	42.02	ug/L		92
35) Propionitrile	3.691	54	83927	225.57	ug/L		99

BA 10/1

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3317.D
Acq On : 26 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 28 06:34:16 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	3.917	130	55487	46.97 ug/L	92
37) Methacrylonitrile	3.917	67	43343	45.09 ug/L #	69
38) Tetrahydrofuran	4.002	42	30099	45.87 ug/L	98
39) Chloroform	4.069	83	139598	47.19 ug/L	99
40) 1,1,1-Trichloroethane	4.331	97	109119	45.50 ug/L	98
41) TAME	5.343	73	217702	43.22 ug/L	98
43) Cyclohexane	4.411	41	63162	46.61 ug/L	90
45) Carbontetrachloride	4.612	121	25662	44.69 ug/L	97
46) 1,1-Dichloropropene	4.624	75	100261	44.80 ug/L	99
48) Benzene	4.996	78	325935	46.09 ug/L	95
49) 1,2-Dichloroethane	5.045	62	107776	44.75 ug/L	96
50) Iso-Butyl Alcohol	5.081	43	91457	796.72 ug/L	93
51) n-Heptane	5.709	43	72649	49.45 ug/L	91
52) 1-Butanol	6.544	56	156659	1987.92 ug/L	96
53) Trichloroethene	6.368	130	81666	45.36 ug/L	97
54) Methylcyclohexane	6.746	55	88338	48.24 ug/L	89
55) 1,2-Diclpropane	6.813	63	81000	45.15 ug/L	97
56) Dibromomethane	7.056	93	54248	46.12 ug/L	99
57) 1,4-Dioxane	7.209	88	33323	873.87 ug/L	99
58) Methyl Methacrylate	7.306	69	67126	43.93 ug/L	94
59) Bromodichloromethane	7.465	83	98592	45.77 ug/L	98
60) 2-Nitropropane	7.916	41	29563	76.63 ug/L	91
61) 2-Chloroethylvinyl Ether	8.142	63	50660	44.68 ug/L	90
62) cis-1,3-Dichloropropene	8.294	75	121868	46.90 ug/L	95
63) 4-Methyl-2-pentanone	8.617	43	85660	43.11 ug/L	96
65) Toluene	8.788	91	342116	44.64 ug/L	96
66) trans-1,3-Dichloropropene	9.178	75	103409	45.49 ug/L	96
67) Ethyl Methacrylate	9.416	69	118091	45.78 ug/L	98
68) 1,1,2-Trichloroethane	9.410	97	81040	45.46 ug/L	98
71) Tetrachloroethene	9.556	164	60097	42.77 ug/L	90
72) 2-Hexanone	9.824	43	64254	43.04 ug/L	96
73) 1,3-Dichloropropane	9.617	76	138638	45.88 ug/L	96
74) Dibromochloromethane	9.897	129	74391	43.36 ug/L	97
75) N-Butyl Acetate	10.056	43	122123	42.44 ug/L	99
76) 1,2-Dibromoethane	9.995	107	80000	44.33 ug/L	99
78) Chlorobenzene	10.647	112	214884	43.40 ug/L	96
80) 1,1,1,2-Tetrachloroethane	10.775	131	66156	42.16 ug/L	99
81) Ethylbenzene	10.824	106	111544	43.56 ug/L	93
82) (m+p)Xylene	10.970	106	274268	88.42 ug/L	96
83) o-Xylene	11.415	106	134406	43.42 ug/L	92
84) Styrene	11.440	104	239961	46.26 ug/L	97
85) Bromoform	11.604	173	47757	40.94 ug/L	98
87) Isopropylbenzene	11.854	105	317145	42.02 ug/L	98
88) Cyclohexanone	11.903	55	323759	874.46 ug/L	97
89) trans-1,4-Dichloro-2-B...	12.263	53	25701	43.05 ug/L	90
91) 1,1,2,2-Tetrachloroethane	12.202	83	115655	44.21 ug/L	99
92) Bromobenzene	12.129	156	86891	43.60 ug/L	98
93) 1,2,3-Trichloropropane	12.214	110	34258	43.87 ug/L #	80
94) n-Propylbenzene	12.305	91	376456	44.68 ug/L	98
95) 2-Chlorotoluene	12.360	91	231033	42.81 ug/L	93
96) 3-Chlorotoluene	12.488	91	276694	50.10 ug/L	91

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3317.D
Acq On : 26 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 28 06:34:16 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

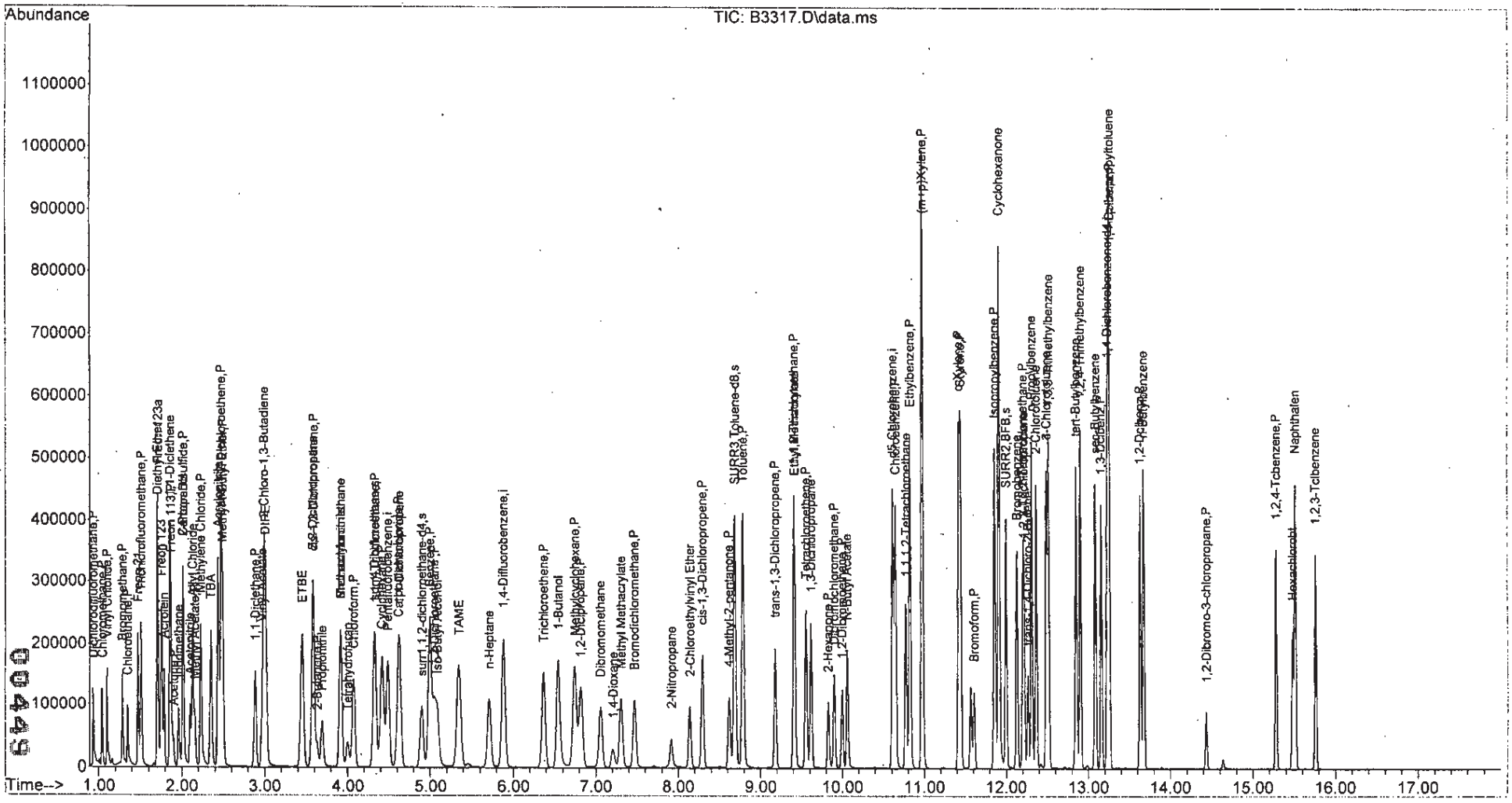
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	4-Chlorotoluene	12.488	91	276694	44.55	ug/L	96
98)	1,3,5-Trimethylbenzene	12.513	105	261590	44.12	ug/L	98
99)	tert-Butylbenzene	12.848	119	210211	42.83	ug/L	96
100)	1,2,4-Trimethylbenzene	12.903	105	267485	43.99	ug/L	100
102)	sec-Butylbenzene	13.086	105	299819	43.46	ug/L	99
103)	p-Isopropyltoluene	13.250	119	249701	43.67	ug/L	99
104)	1,3-Dclbenz	13.153	146	155167	42.88	ug/L	98
105)	1,4-Dclbenz	13.256	146	159096	42.12	ug/L	96
108)	n-Butylbenzene	13.671	91	233925	46.27	ug/L	98
109)	1,2-Dclbenz	13.628	146	155174	42.59	ug/L	100
110)	1,2-Dibromo-3-chloropr...	14.433	157	20393	38.28	ug/L	94
114)	1,2,4-Tcbenzene	15.280	180	95101	41.29	ug/L	99
115)	Hexachlorobt	15.482	225	36365	43.40	ug/L	99
116)	Naphthalen	15.512	128	309128	41.56	ug/L	99
117)	1,2,3-Tclbenzene	15.756	180	91928	40.75	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3317.D
Acq On : 26 Sep 2015 10:22 am
Operator : B Wojtasiewicz
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 28 06:34:16 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Binghamton/5101.0003

Service Request: R1508047
Date Analyzed: 9/30/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\093015\F2594.D\

Calibration Date: 9/10/15
Calibration ID: RC1500091
Analysis Lot: 464754
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	46.1	0.7563	0.6969	-7.9	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	50.0	0.9591	0.9590	0.0	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	48.1	0.4091	0.3936	-3.8	NA	± 20 %	Average RF
Tetrachloroethene (PCE)	50.0	47.5	0.3223	0.3059	-5.1	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	45.7	0.3973	0.3627	-8.7	NA	± 20 %	Average RF
Vinyl Chloride	50.0	58.1	0.5223	0.6071	16.2	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	48.8	0.5234	0.5109	-2.4	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	49.5	0.4501	0.4451	-1.1	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	47.5	0.4856	0.4613	-5.0	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	48.5	0.3226	0.3131	-2.9	NA	± 20 %	Average RF
Toluene-d8	50.0	50.0	1.176	1.175	0.0	NA	± 20 %	Average RF

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2594.D
Acq On : 30 Sep 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 12:07:17 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FW 10/1/15

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	i	Pentafluorobenzene	1.0000	1.0000	0.0	102	0.00	
2	P	Dichlorodifluoromethane	0.4428	0.4772	-7.8	95	0.00	
3	P	Chloromethane	0.6035	0.7153	-18.5	117	0.00	
4	P	Vinyl Chloride	0.5223	0.6071	-16.2	112	0.00	
5	P	Bromomethane	0.2948	0.2766	-23.1 ~~6.2~~	120	0.00	(1)
6	P	Chloroethane	0.3129	0.3650	-16.7	113	0.01	
7		Freon 21	0.8860	0.8624	2.7	98	0.00	
8	P	Trichlorofluoromethane	0.6721	0.6820	-1.5	97	0.01	
9		Diethyl Ether	0.4916	0.5283	-7.5	103	0.00	
10		Freon 123a	0.5881	0.5354	9.0	90	0.00	
11		Freon 123	0.6050	0.5609	7.3	88	0.00	
12		Acrolein	0.1599	0.1291	19.3	79	0.00	
13		1,1-Diclethene	0.4091	0.3936	3.8	97	0.00	
14	P	Freon 113	0.4565	0.4574	-0.2	100	0.00	
15	P	Acetone	0.4277	0.3261	23.8#	80	0.00	(2)
16		2-Propanol	0.0907	0.0802	11.6	86	-0.02	
17		Iodomethane	0.5227	0.5416	11.3 ~~-3.6~~	85	0.00	
18	P	Carbon Disulfide	1.2488	1.0472	16.1	87	0.00	
19		Acetonitrile	0.0896	0.0858	4.2	99	0.00	
20		Allyl Chloride	0.2608	0.2577	1.2	101	0.00	
21	P	Methyl Acetate	0.7730	0.7967	-3.1	99	0.00	
22	P	Methylene Chloride	0.5125	0.4866	5.1	99	0.00	
23		TBA	0.1253	0.0992	20.8#	77	-0.02	(3)
24		Acrylonitrile	0.3354	0.3629	-8.2	100	0.00	
25	P	Methyl-t-Butyl Ether	1.6965	1.5934	6.1	89	0.00	
26	P	trans-1,2-Dichloroethene	0.4501	0.4451	1.1	99	0.00	
27	P	1,1-Diclethane	0.9591	0.9590	0.0	100	0.00	
28		Vinyl Acetate	0.0969	0.1011	-4.3	98	0.00	
29		DIPE	~~2.2005~~	~~0.0003~~	~~100.0#~~	~~0#~~	~~0.00~~	
30		2-Chloro-1,3-Butadiene	1.0503	0.9699	7.7	90	0.00	
31		ETBE	~~1.8352~~	~~0.0004~~	~~100.0#~~	~~0#~~	~~-0.02~~	
32		2,2-Dichloropropane	0.7109	0.6658	6.3	91	0.00	
33	P	cis-1,2-Dichloroethene	0.5234	0.5109	2.4	99	0.00	
34	P	2-Butanone	0.5384	0.4983	7.4	94	0.00	
35		Propionitrile	0.1444	0.1436	0.6	97	-0.01	
36		Bromochloromethane	0.3268	0.3323	-1.7	100	-0.01	
37		Methacrylonitrile	0.3144	0.2839	9.7	94	0.00	
38		Tetrahydrofuran	0.3707	0.3509	5.3	106	0.00	
39	P	Chloroform	0.8646	0.8209	5.1	90	0.00	
40	P	1,1,1-Trichloroethane	0.7563	0.6969	7.9	87	0.00	
41	i	1,4-Difluorobenzene	1.0000	1.0000	0.0	103	0.00	
42	P	Cyclohexane	0.4989	0.4766	4.5	103	0.00	
43	s	surr4,Dibrflmethane	0.3226	0.3131	2.9	98	0.00	
44	P	Carbontetrachloride	0.1347	0.1261	6.4	89	0.00	
45		1,1-Dichloropropene	0.4503	0.4478	0.6	99	0.00	
46	s	surr1,1,2-dichloroethane-d4	0.4574	0.4093	10.5	90	0.00	

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2594.D
Acq On : 30 Sep 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 12:07:17 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
47	P	Benzene	1.3388	1.3389	-0.0	98	0.00	
48	P	1,2-Dichloroethane	0.6042	0.5408	10.5	88	0.00	
49		Iso-Butyl Alcohol	0.0456	0.0413	9.4	91	-0.02	
50		TAME	1.0936	0.0000	100.0#	0#	6.35#	
51		n-Heptane	0.6365	0.7833	-23.1#	129	0.00	NT
52		1-Butanol	0.0242	0.0000	100.0#	0#	7.10#	
53	P	Trichloroethene	0.3973	0.3627	8.7	95	0.00	
54	P	Methylcyclohexane	0.5532	0.5552	-0.4	106	0.00	
55	P	1,2-Diclpropane	0.3899	0.3986	-2.2	101	0.00	
56		Dibromomethane	0.2371	0.2157	9.0	89	0.00	
57		1,4-Dioxane	0.0085	0.0072	15.3	90	0.00	
58		Methyl Methacrylate	0.3242	0.2978	8.1	91	0.00	
59	P	Bromodichloromethane	0.4587	0.4085	10.9	86	0.00	
60		2-Nitropropane	0.1656	0.0967	41.6#	58	0.00	NT
61		2-Chloroethylvinyl Ether	0.2903	0.2594	10.6	87	0.00	
62	P	cis-1,3-Dichloropropene	0.5394	0.5372	0.4	95	0.00	
63	P	4-Methyl-2-pentanone	0.7046	0.6423	8.8	93	0.00	
64	s	SURR3,Toluene-d8	1.1758	1.1755	0.0	98	0.00	
65	P	Toluene	1.3943	1.3881	0.4	97	0.00	
66	P	trans-1,3-Dichloropropene	0.4982	0.4810	3.5	90	0.00	
67		Ethyl Methacrylate	0.5591	0.5252	6.1	90	0.00	
68	P	1,1,2-Trichloroethane	0.3308	0.3103	6.2	91	0.00	
69	s	SURR2,BFB	0.4856	0.4613	5.0	96	0.00	
70	i	d5-Chlorobenzene	1.0000	1.0000	0.0	103	0.00	
71	P	Tetrachloroethene	0.3223	0.3059	5.1	97	0.00	
72	P	2-Hexanone	0.6051	0.5375	11.2	89	0.00	
73		1,3-Dichloropropane	0.6616	0.6438	2.7	98	0.00	
74	P	Dibromochloromethane	0.3832	0.3713	3.1	89	0.00	
75		N-Butyl Acetate	1.0872	1.0741	1.2	94	0.00	
76	P	1,2-Dibromoethane	0.4077	0.3841	5.8	93	0.00	
77		3-Chlorobenzotrifluoride	0.6049	0.0000	100.0#	0#	0.04	
78	P	Chlorobenzene	1.0389	1.0113	2.7	97	0.00	
79		4-Chlorobenzotrifluoride	0.5369	0.0000	100.0#	0#	0.00	
80		1,1,1,2-Tetrachloroethane	0.3582	0.3500	2.3	90	0.00	
81	P	Ethylbenzene	0.5528	0.5407	2.2	97	0.00	
82	P	(m+p)Xylene	0.6504	0.6780	-4.2	101	0.00	
83	P	o-Xylene	0.6773	0.6670	1.5	101	0.00	
84	P	Styrene	1.1037	1.1311	-2.5	99	0.00	
85	P	Bromoform	0.2925	0.2595	11.3	83	0.00	
86		2-Chlorobenzotrifluoride	0.6002	0.0000	100.0#	0#	0.00	
87	P	Isopropylbenzene	1.6665	1.7178	-3.1	100	0.00	
88		Cyclohexanone	0.1151	0.1045	9.2	84	0.00	
89		trans-1,4-Dichloro-2-Butene	0.2069	0.1926	6.9	95	0.00	
90	i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	98	0.00	
91	P	1,1,2,2-Tetrachloroethane	0.8529	0.9474	0.1 11.1	93	0.00	

00452

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2594.D
Acq On : 30 Sep 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 12:07:17 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92		Bromobenzene	0.8371	0.8230	1.7	95	0.00
93		1,2,3-Trichloropropane	0.3313	0.3042	8.2	90	0.00
94		n-Propylbenzene	3.6007	3.8775	-7.7	98	0.00
95		2-Chlorotoluene	2.2052	2.2405	-1.6	94	0.00
96		3-Chlorotoluene	2.2914	0.0000	100.0#	0#	-11.37#
97		4-Chlorotoluene	2.6150	2.6857	-2.7	95	0.00
98		1,3,5-Trimethylbenzene	2.5533	2.7237	-6.7	98	0.00
99		tert-Butylbenzene	2.1710	2.3770	-9.5	101	0.00
100		1,2,4-Trimethylbenzene	2.6037	2.7598	-6.0	98	0.00
101		3,4-Dichlorobenzotrifluorid	0.8969	0.0000	100.0#	0#	0.00
102		sec-Butylbenzene	3.1619	3.5022	-10.8	100	0.00
103		p-Isopropyltoluene	2.6860	2.9934	-11.4	103	0.00
104	P	1,3-Dclbenz	1.5772	1.5953	-1.1	98	0.00
105	P	1,4-Dclbenz	1.6906	1.6448	2.7	98	0.00
106		2,4-Dichlorobenzotrifluorid	0.8332	0.0001	100.0#	0#	0.04
107		2,5-Dichlorobenzotrifluorid	0.8980	0.0001	100.0#	0#	0.00
108		n-Butylbenzene	2.6363	2.9204	-10.8	101	0.00
109	P	1,2-Dclbenz	1.5910	1.5941	-0.2	96	0.00
110	P	1,2-Dibromo-3-chloropropane	0.2540	0.2351	7.4	83	0.00
111		Trielution Dichlorotoluene	1.4271	0.0008	99.9#	0#	-0.01
112		1,3,5-Trichlorobenzene	1.2929	0.0000	100.0#	0#	0.00
113		Coelution Dichlorotoluene	1.5755	0.0008	99.9#	0#	0.00
114	P	1,2,4-Tcbenzene	1.2719	1.2803	-0.7	98	0.00
115		Hexachlorobt	0.5282	0.5534	-4.8	96	0.00
116		Naphthalen	3.5221	3.6535	-3.7	93	0.00
117		1,2,3-Tclbenzene	1.2601	1.2643	-0.3	95	0.00
118		2,4,5-Trichlorotoluene	0.9763	0.0010	99.9#	0#	0.00
119		2,3,6-Trichlorotoluene	0.8839	0.0005	99.9#	0#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2594.D
Acq On : 30 Sep 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 12:07:17 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FD 10/1/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	796551	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	1155002	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	1028494	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	547525	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	361645	48.53	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 97.06%			
46) surr1,1,2-dichloroetha...	6.031	65	472725	44.74	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 89.48%			
64) SURR3,Toluene-d8	8.488	98	1357674	49.98	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.96%			
69) SURR2,BFB	11.018	95	532749	47.49	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	380096	53.88	ug/L	97
3) Chloromethane	1.294	50	569776	59.26	ug/L	98
4) Vinyl Chloride	1.379	62	483562	58.11	ug/L	97
5) Bromomethane	1.617	94	220318	61.56	ug/L	98
6) Chloroethane	1.703	64	290742	58.32	ug/L	93
7) Freon 21	1.867	67	686973	48.67	ug/L	95
8) Trichlorofluoromethane	1.916	101	543227	50.73	ug/L	99
9) Diethyl Ether	2.166	59	420815	53.74	ug/L	91
10) Freon 123a	2.172	67	426459	45.52	ug/L	94
11) Freon 123	2.233	83	446816	46.36	ug/L	98
12) Acrolein	2.269	56	513999	201.80	ug/L	97
13) 1,1-Diclethene	2.367	96	313543	48.11	ug/L	97
14) Freon 113	2.373	101	364338	50.10	ug/L	94
15) Acetone	2.416	43	259784	38.13	ug/L	97
16) 2-Propanol	2.574	45	1278134	884.38	ug/L	94
17) Iodomethane	2.501	142	431374	44.36	ug/L	95
18) Carbon Disulfide	2.562	76	834154	41.93	ug/L	99
19) Acetonitrile	2.690	40	341654m	239.48	ug/L	
20) Allyl Chloride	2.721	76	205298	49.42	ug/L #	21
21) Methyl Acetate	2.757	43	634616	51.53	ug/L	99
22) Methylene Chloride	2.855	84	387604	47.47	ug/L	98
23) TBA	3.013	59	1580550	791.70	ug/L	87
24) Acrylonitrile	3.129	53	1445289	270.48	ug/L	99
25) Methyl-t-Butyl Ether	3.184	73	1269211	46.96	ug/L	99
26) trans-1,2-Dichloroethene	3.172	96	354558	49.45	ug/L	92
27) 1,1-Diclethane	3.708	63	763913	50.00	ug/L	97
28) Vinyl Acetate	3.818	86	80543	52.18	ug/L #	79
30) 2-Chloro-1,3-Butadiene	3.842	53	772556	46.17	ug/L	98
32) 2,2-Dichloropropane	4.610	77	530373	46.83	ug/L	98
33) cis-1,2-Dichloroethene	4.623	96	406976	48.81	ug/L #	83
34) 2-Butanone	4.678	43	396952	46.28	ug/L	99
35) Propionitrile	4.769	54	571958	248.71	ug/L	99
36) Bromochloromethane	5.043	130	264672	50.83	ug/L	95
37) Methacrylonitrile	5.062	67	226127	45.15	ug/L #	75

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2594.D
Acq On : 30 Sep 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 12:07:17 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Tetrahydrofuran	5.147	42	279480	47.33	ug/L		94
39)	Chloroform	5.245	83	653864	47.47	ug/L		98
40)	1,1,1-Trichloroethane	5.513	97	555090	46.07	ug/L		96
42)	Cyclohexane	5.598	41	550487	47.76	ug/L		97
44)	Carbontetrachloride	5.787	121	145675	46.80	ug/L		100
45)	1,1-Dichloropropene	5.799	75	517159	49.72	ug/L		99
47)	Benzene	6.104	78	1546465	50.01	ug/L		89
48)	1,2-Dichloroethane	6.147	62	624607	44.75	ug/L		98
49)	Iso-Butyl Alcohol	6.147	43	953123	904.50	ug/L		95
51)	n-Heptane	6.586	43	904688	61.53	ug/L		96
53)	Trichloroethene	7.031	130	418902	45.65	ug/L		99
54)	Methylcyclohexane	7.262	55	641212	50.18	ug/L		94
55)	1,2-Diclpropane	7.305	63	460345	51.11	ug/L		97
56)	Dibromomethane	7.445	93	249091	45.49	ug/L		86
57)	1,4-Dioxane	7.506	88	166776	852.51	ug/L		97
58)	Methyl Methacrylate	7.531	69	343928	45.93	ug/L	#	85
59)	Bromodichloromethane	7.671	83	471872	44.53	ug/L		98
60)	2-Nitropropane	7.945	41	223299	58.37	ug/L		99
61)	2-Chloroethylvinyl Ether	8.067	63	299638	44.68	ug/L		98
62)	cis-1,3-Dichloropropene	8.201	75	620434	49.80	ug/L		97
63)	4-Methyl-2-pentanone	8.402	43	741857	45.58	ug/L		94
65)	Toluene	8.561	91	1603254	49.78	ug/L		97
66)	trans-1,3-Dichloropropene	8.829	75	555581	48.28	ug/L		98
67)	Ethyl Methacrylate	8.963	69	606614	46.97	ug/L		92
68)	1,1,2-Trichloroethane	9.012	97	358359	46.90	ug/L	#	85
71)	Tetrachloroethene	9.146	164	314602	47.46	ug/L	#	88
72)	2-Hexanone	9.299	43	552821	44.42	ug/L		96
73)	1,3-Dichloropropane	9.177	76	662140	48.65	ug/L		95
74)	Dibromochloromethane	9.402	129	381887	48.45	ug/L		99
75)	N-Butyl Acetate	9.451	43	1104690	49.39	ug/L		98
76)	1,2-Dibromoethane	9.494	107	395050	47.11	ug/L		100
78)	Chlorobenzene	9.981	112	1040096	48.67	ug/L		99
80)	1,1,1,2-Tetrachloroethane	10.067	131	360021	48.86	ug/L		94
81)	Ethylbenzene	10.103	106	556099	48.90	ug/L		95
82)	(m+p)Xylene	10.213	106	1394707	104.25	ug/L		94
83)	o-Xylene	10.567	106	685991	49.24	ug/L		100
84)	Styrene	10.579	104	1163378	51.25	ug/L		99
85)	Bromoform	10.731	173	266938	44.37	ug/L		97
87)	Isopropylbenzene	10.896	105	1766712	51.54	ug/L		99
88)	Cyclohexanone	10.957	55	2149533	907.98	ug/L		90
89)	trans-1,4-Dichloro-2-B...	11.201	53	198126	46.56	ug/L		97
91)	1,1,2,2-Tetrachloroethane	11.152	83	518727	49.94	ug/L		96
92)	Bromobenzene	11.140	156	450602	49.16	ug/L	#	85
93)	1,2,3-Trichloropropane	11.182	110	166547	45.90	ug/L	#	87
94)	n-Propylbenzene	11.249	91	2123010	53.84	ug/L		97
95)	2-Chlorotoluene	11.310	91	1226723	50.80	ug/L		98
97)	4-Chlorotoluene	11.408	91	1470463	51.35	ug/L		96
98)	1,3,5-Trimethylbenzene	11.402	105	1491283	53.34	ug/L		97
99)	tert-Butylbenzene	11.670	119	1301450	54.74	ug/L		99
100)	1,2,4-Trimethylbenzene	11.713	105	1511084	53.00	ug/L		94
102)	sec-Butylbenzene	11.853	105	1917557	55.38	ug/L		98

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2594.D
Acq On : 30 Sep 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

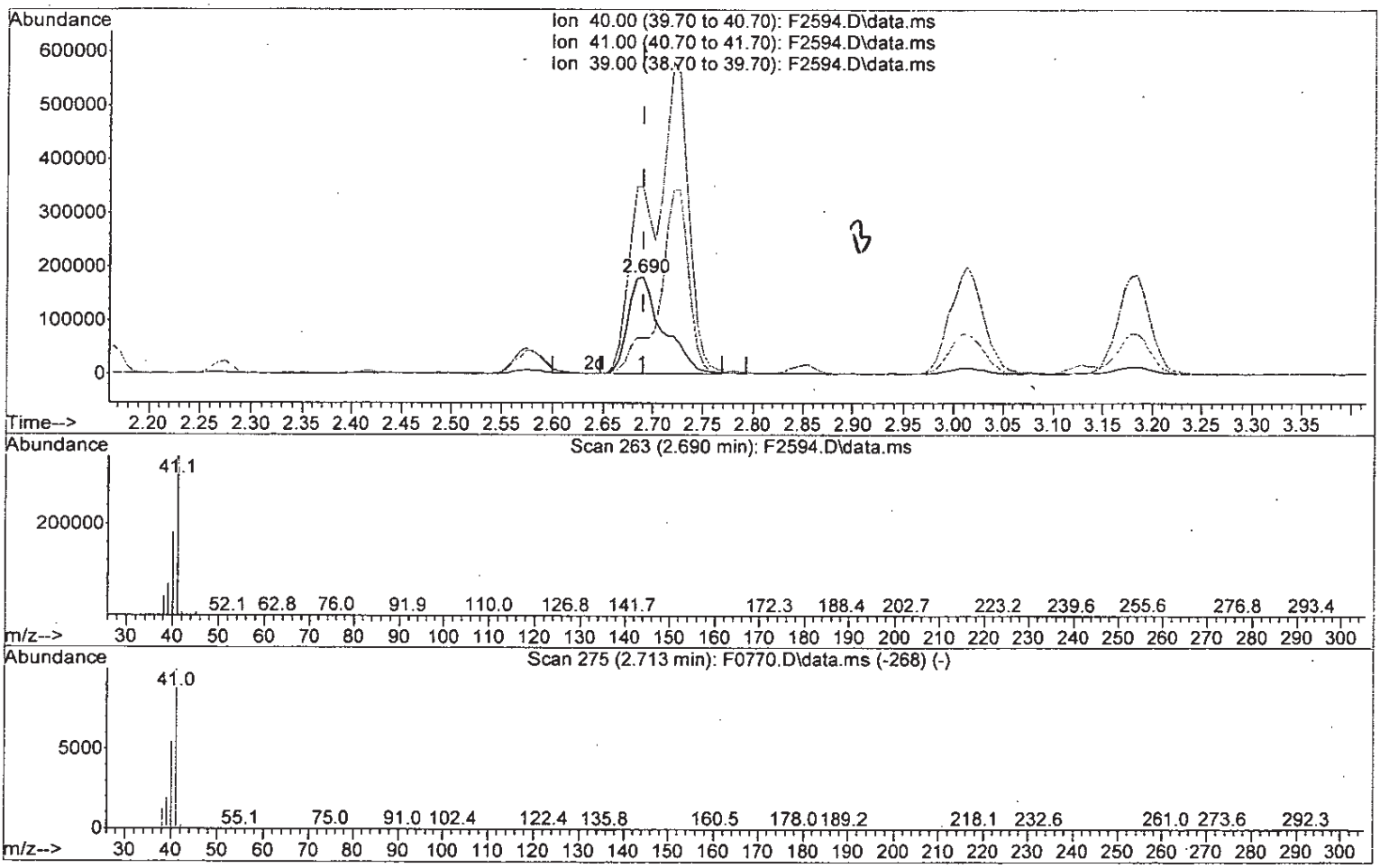
Quant Time: Sep 30 12:07:17 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
103) p-Isopropyltoluene	11.975	119	1638944	55.72 ug/L	97
104) 1,3-Dclbenz	11.932	146	873452	50.57 ug/L	96
105) 1,4-Dclbenz	12.005	146	900551	48.64 ug/L	99
108) n-Butylbenzene	12.304	91	1598978	55.39 ug/L	99
109) 1,2-Dclbenz	12.310	146	872819	50.10 ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.926	157	128740	46.28 ug/L	90
114) 1,2,4-Tcbenzene	13.584	180	700989	50.33 ug/L	97
115) Hexachlorobt	13.718	225	303001	52.38 ug/L	99
116) Naphthalen	13.773	128	2000362	51.86 ug/L	99
117) 1,2,3-Tclbenzene	13.962	180	692229	50.17 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2594.D
Acq On : 30 Sep 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 11:50:34 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2594.D\data.ms

(19) Acetonitrile

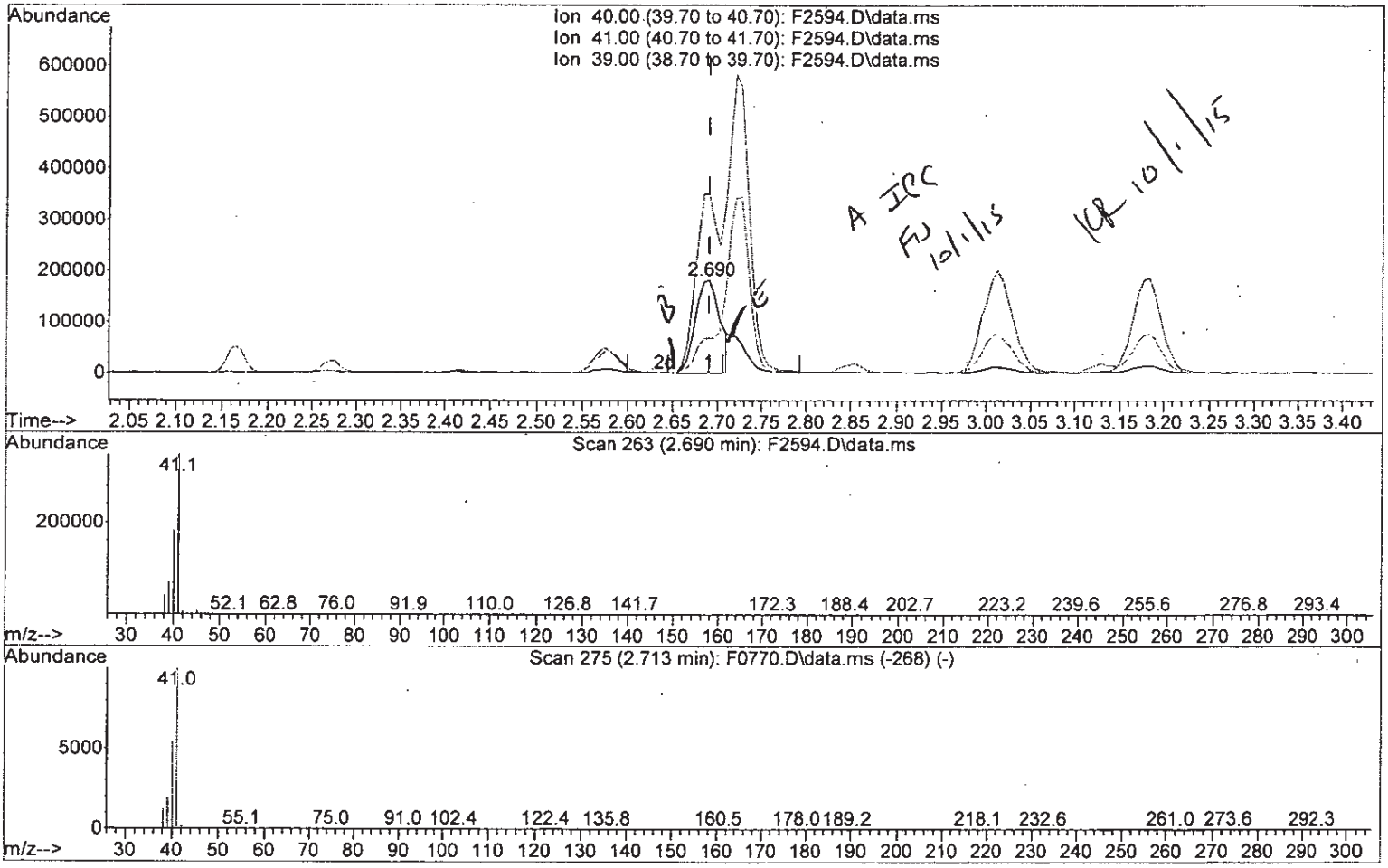
2.690min (-0.000) 310.45 ug/L

response 442913

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	191.70
39.00	35.30	37.53
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2594.D
Acq On : 30 Sep 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 11:50:34 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2594.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 239.48 ug/L m

response 341654

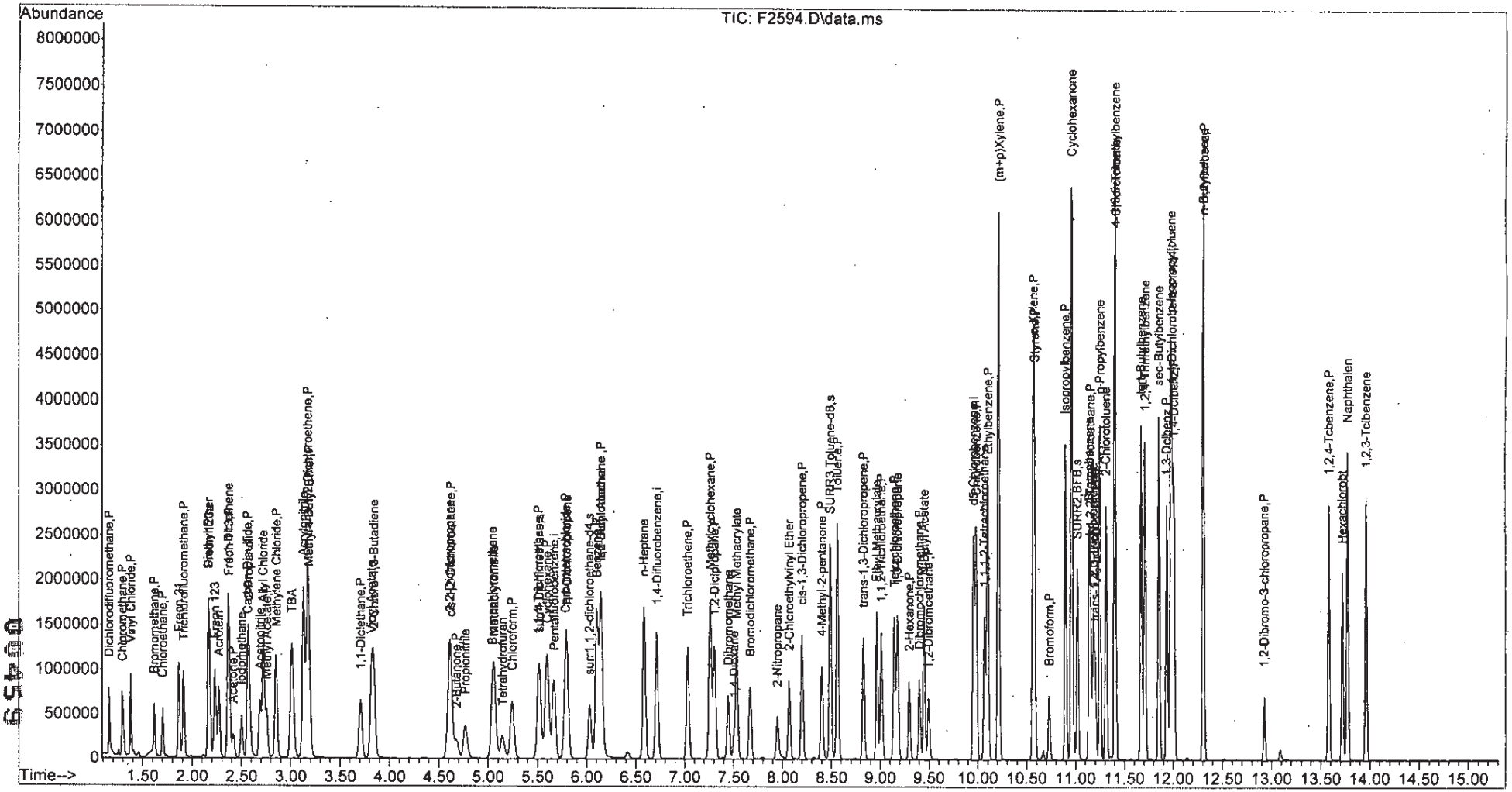
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	191.70
39.00	35.30	37.53
0.00	0.00	0.00

00458

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2594.D
Acq On : 30 Sep 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 12:07:17 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



ALS Environmental

VOLATILE ORGANICS
RAW QC DATA

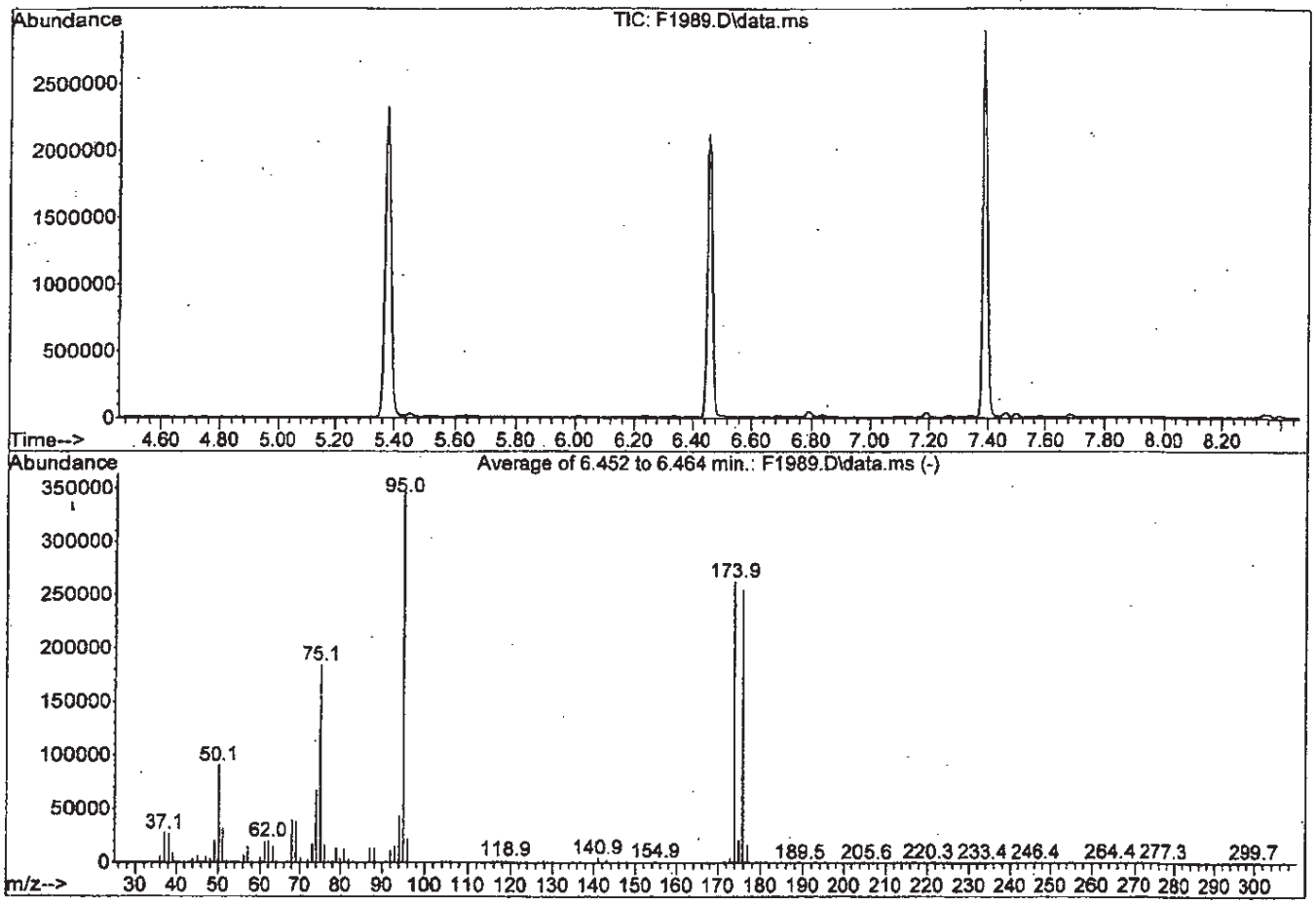
ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1989.D
Acq On : 10 Sep 2015 4:35 pm
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

FJ 9/11/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T091015.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

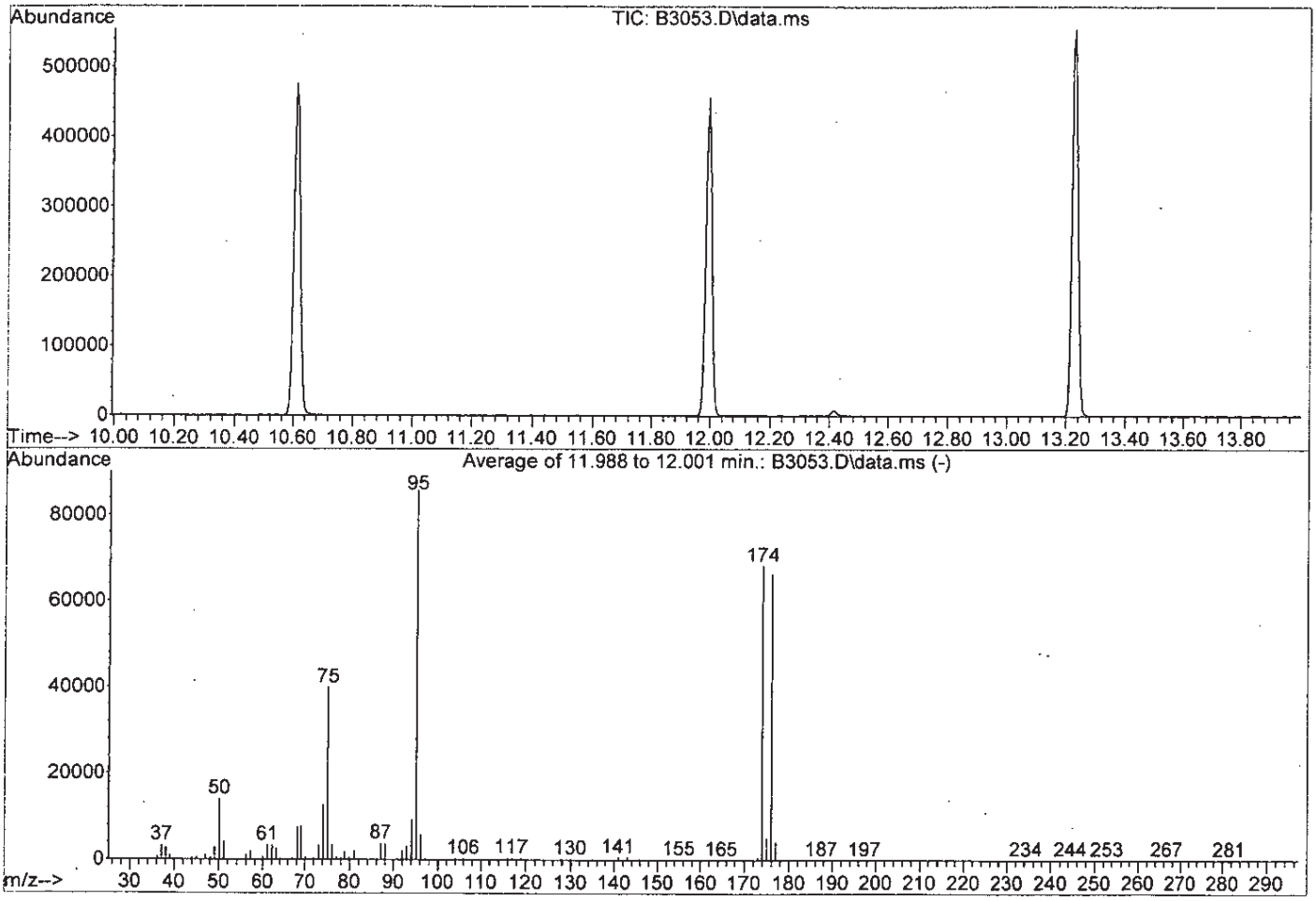
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.1	90187	PASS
75	95	30	60	53.2	183984	PASS
95	95	100	100	100.0	345664	PASS
96	95	5	9	6.5	22627	PASS
173	174	0.00	2	1.6	4127	PASS
174	95	50	120	75.9	262392	PASS
175	174	5	9	8.0	20933	PASS
176	174	95	101	97.1	254869	PASS
177	176	5	9	6.5	16443	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\091015\
Data File : B3053.D
Acq On : 10 Sep 2015 8:07 am
Operator : B Wojtasiewicz
Sample : TUNE Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

JW 091015

Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Thu Sep 10 14:17:13 2015



AutoFind: Scans 1821, 1822, 1823; Background Corrected with Scan 1814

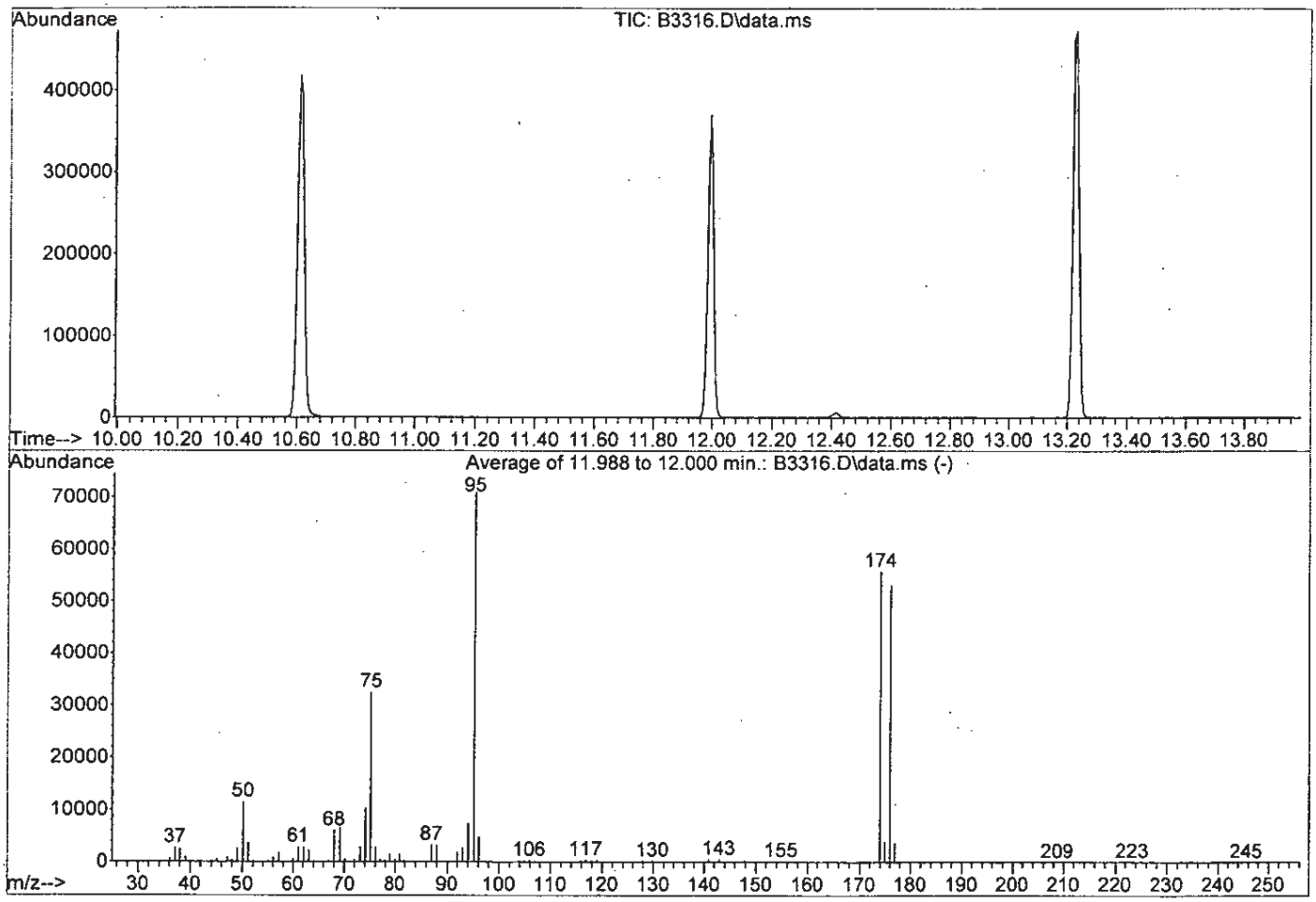
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	14056	PASS
75	95	30	60	46.5	39872	PASS
95	95	100	100	100.0	85800	PASS
96	95	5	9	6.7	5755	PASS
173	174	0.00	2	0.9	624	PASS
174	95	50	120	79.6	68301	PASS
175	174	5	9	7.5	5092	PASS
176	174	95	101	97.1	66341	PASS
177	176	5	9	6.2	4114	PASS

00462

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3316.D
Acq On : 26 Sep 2015 9:50 am
Operator : B Wojtasiewicz
Sample : TUNE Inst : MSVOA14
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Thu Sep 10 14:17:13 2015



AutoFind: Scans 1821, 1822, 1823; Background Corrected with Scan 1815

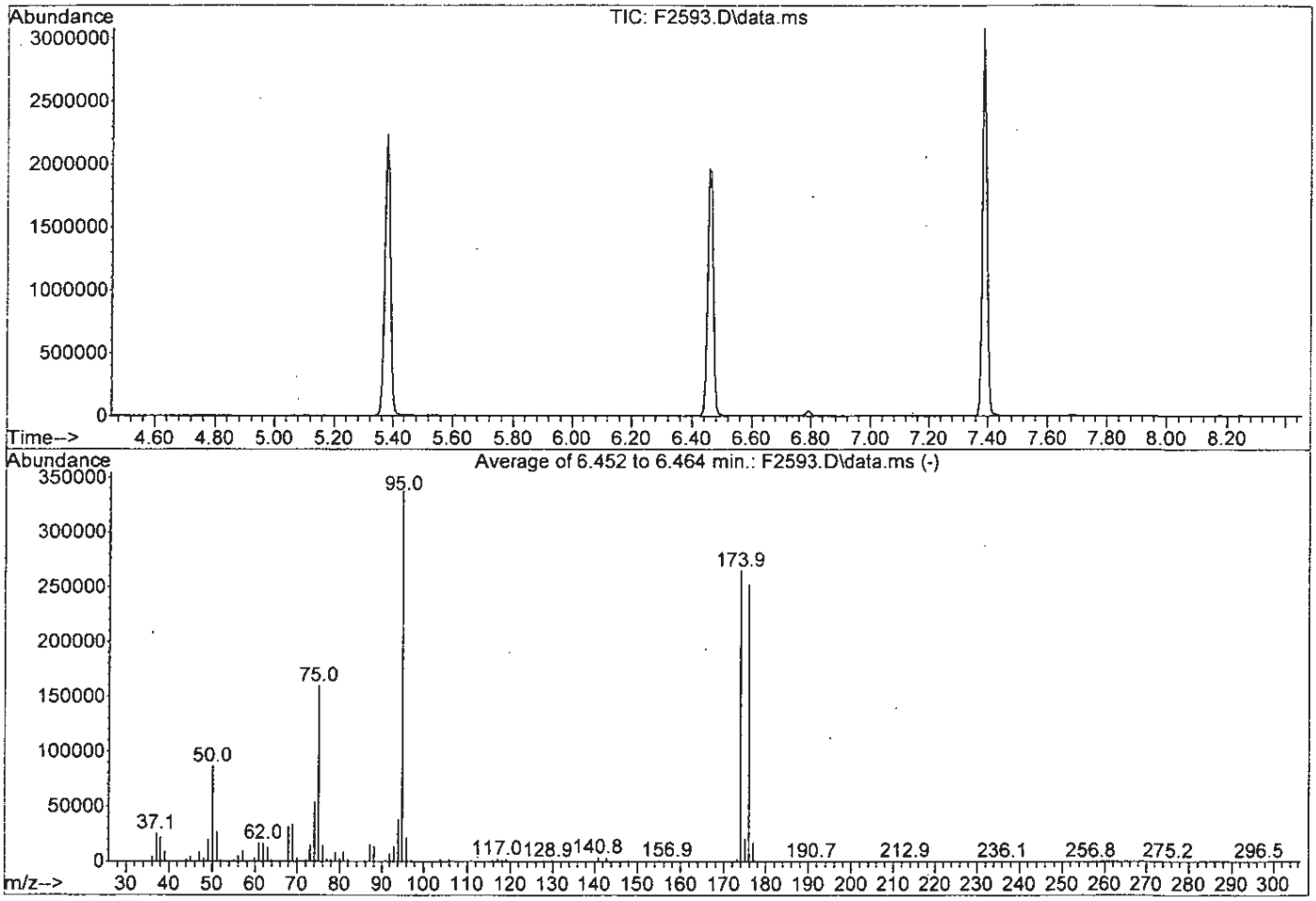
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	11435	PASS
75	95	30	60	45.8	32453	PASS
95	95	100	100	100.0	70925	PASS
96	95	5	9	6.7	4717	PASS
173	174	0.00	2	0.3	148	PASS
174	95	50	120	78.6	55733	PASS
175	174	5	9	7.0	3886	PASS
176	174	95	101	95.3	53099	PASS
177	176	5	9	6.8	3627	PASS

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2593.D
Acq On : 30 Sep 2015 10:47 am
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: CPD4.P

FD 10/1/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T091015.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.5	86269	PASS
75	95	30	60	47.2	159565	PASS
95	95	100	100	100.0	337856	PASS
96	95	5	9	6.3	21450	PASS
173	174	0.00	2	0.8	2242	PASS
174	95	50	120	78.4	264768	PASS
175	174	5	9	7.8	20664	PASS
176	174	95	101	95.3	252333	PASS
177	176	5	9	6.9	17529	PASS

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	9/26/15 11:55
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1511392-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3320.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	9/26/15 11:55	
Dibromofluoromethane	94	89-119	9/26/15 11:55	
Toluene-d8	98	87-121	9/26/15 11:55	

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3320.D
Acq On : 26 Sep 2015 11:55 am
Operator : B Wojtasiewicz
Sample : MBLANK Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 12:41:21 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.490	168	149759	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.886	114	232578	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.610	117	207493	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	103637	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.325	113	69612	47.22	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 94.44%			
47) surr1,1,2-dichloroetha...	4.898	65	84032	50.09	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.18%			
64) SURR3,Toluene-d8	8.690	98	281125	48.88	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.76%			
69) SURR2,BFB	11.994	95	107534	49.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.30%			
Target Compounds						Qvalue
15) Acetone	1.905	43	353	0.50	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

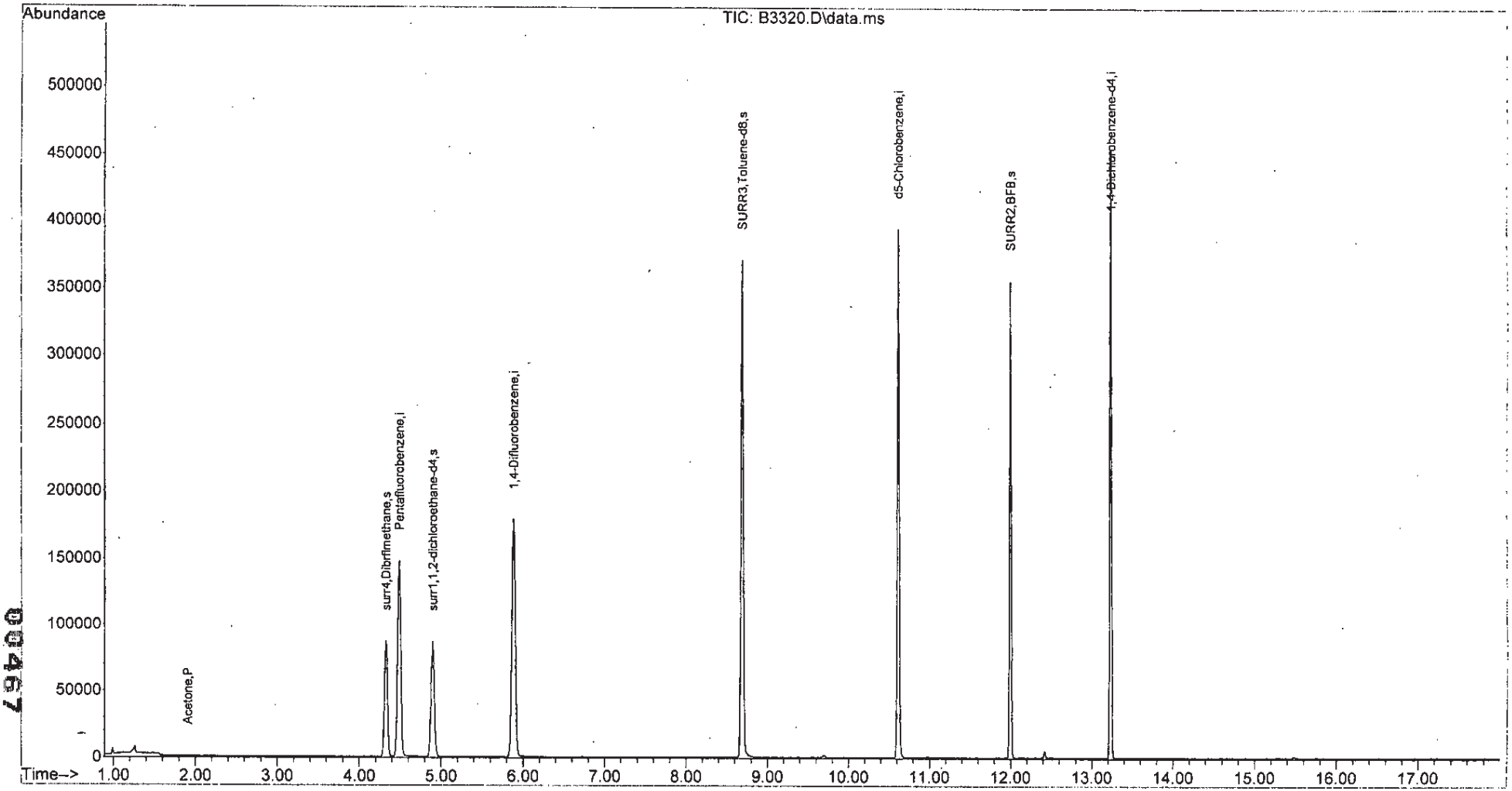
BA 10/1

00466

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3320.D
Acq On : 26 Sep 2015 11:55 am
Operator : B Wojtasiewicz
Sample : MBLANK Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 12:41:21 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	9/30/15 13:35
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1511664-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464754
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\093015\F2598.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.30	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	0.22	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	9/30/15 13:35	
Dibromofluoromethane	91	89-119	9/30/15 13:35	
Toluene-d8	98	87-121	9/30/15 13:35	

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2598.D
Acq On : 30 Sep 2015 1:35 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 12:42:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	714594	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	1080185	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	956000	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	498846	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.513	113	317603	45.57	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 91.14%			
46) surr1,1,2-dichloroetha...	6.031	65	429656	43.48	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 86.96%			
64) SURR3,Toluene-d8	8.488	98	1247243	49.10	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.20%			
69) SURR2,BFB	11.018	95	484857	46.22	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 92.44%			
Target Compounds						Qvalue
15) Acetone	2.422	43	2202m	0.36	ug/L	

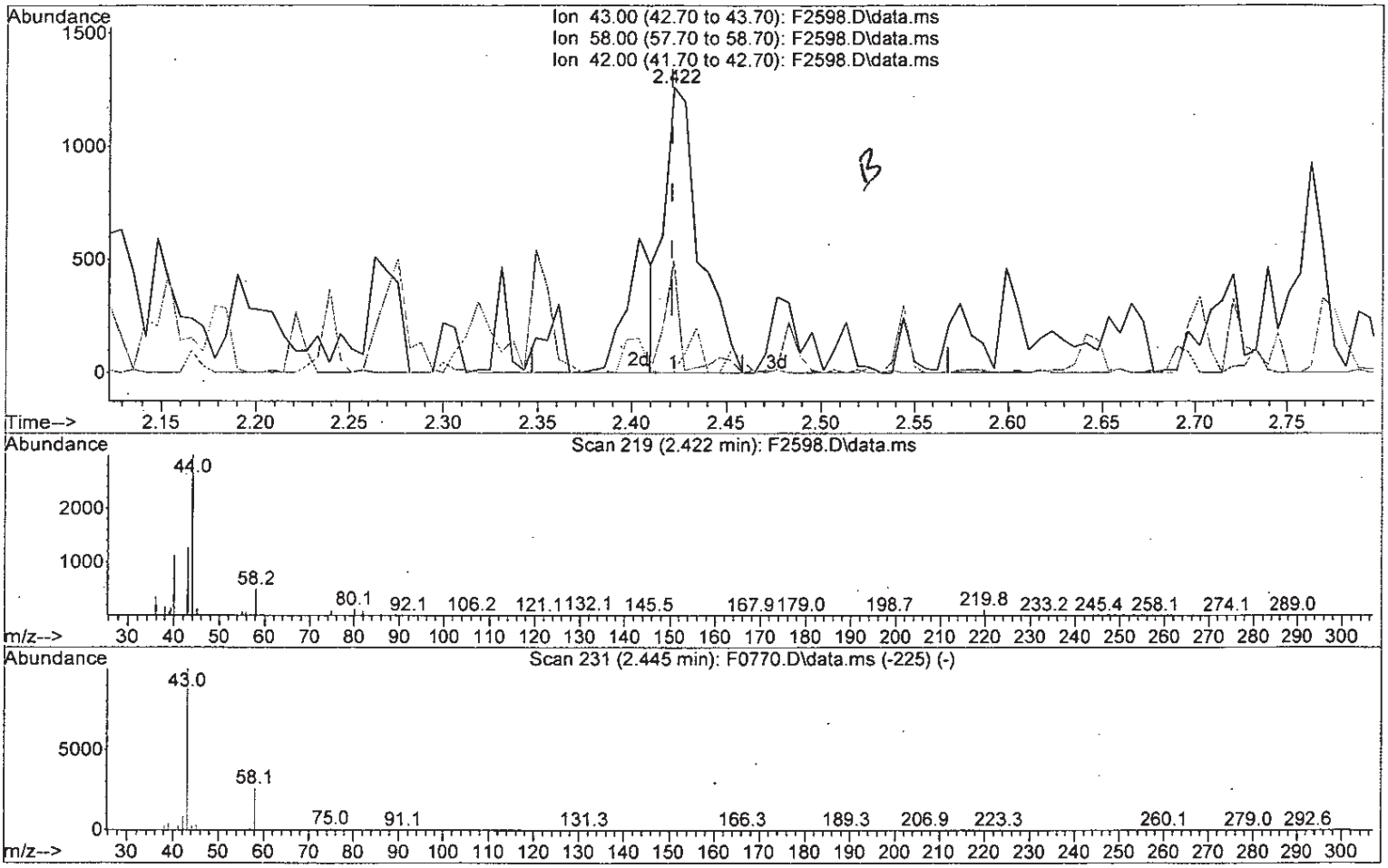
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FN 10/1/15

00469

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2598.D
Acq On : 30 Sep 2015 1:35 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 30 13:49:30 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2598.D\data.ms

(15) Acetone (P)

2.422min (+0.001) 0.27 ug/L

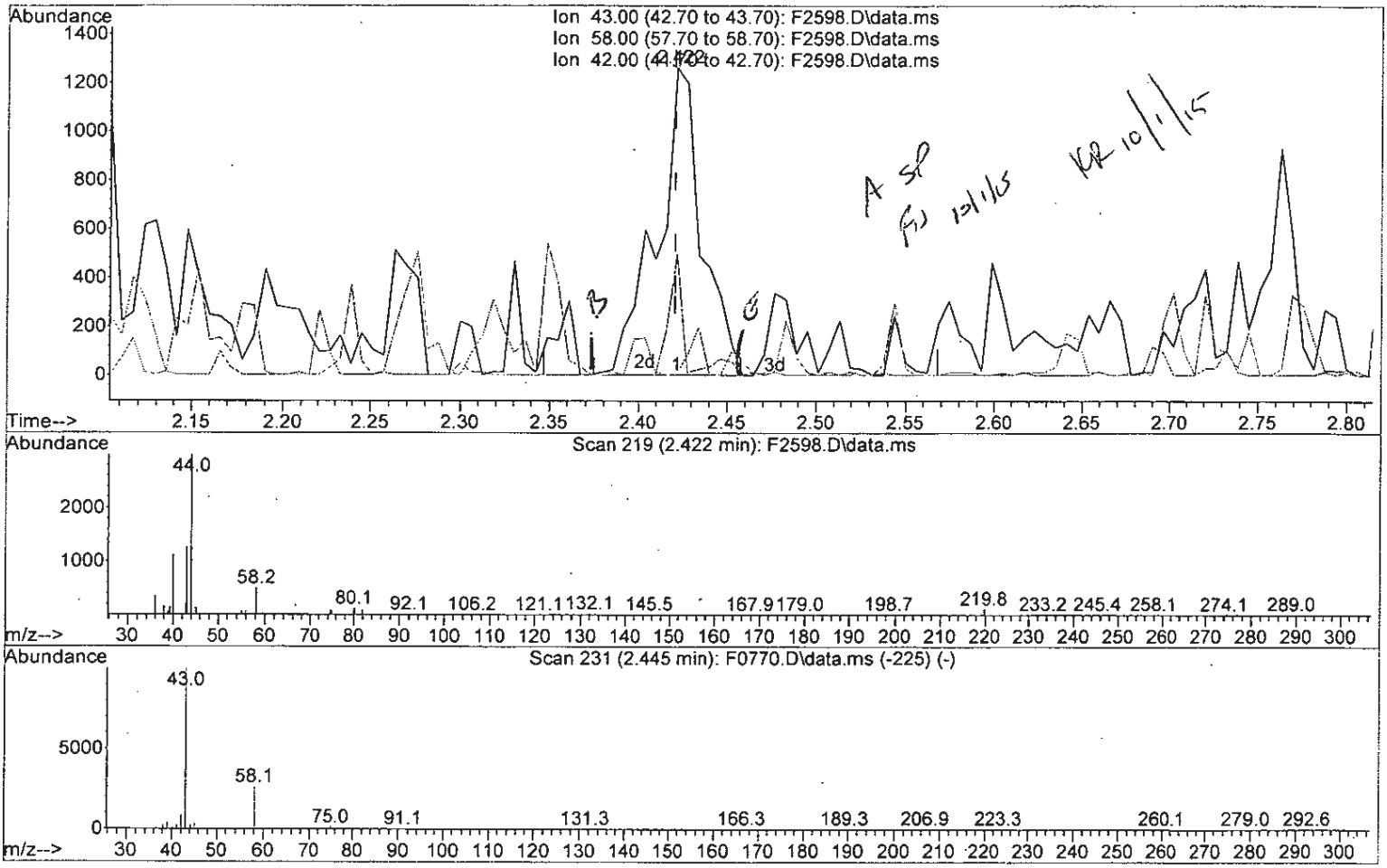
response 1625

Ion	Exp%	Act%
43.00	100	100
58.00	26.10	39.37
42.00	8.30	0.00
0.00	0.00	0.00

00470

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2598.D
Acq On : 30 Sep 2015 1:35 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 30 13:49:30 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2598.D\data.ms

(15) Acetone (P)

2.422min (+0.001) 0.36 ug/L m

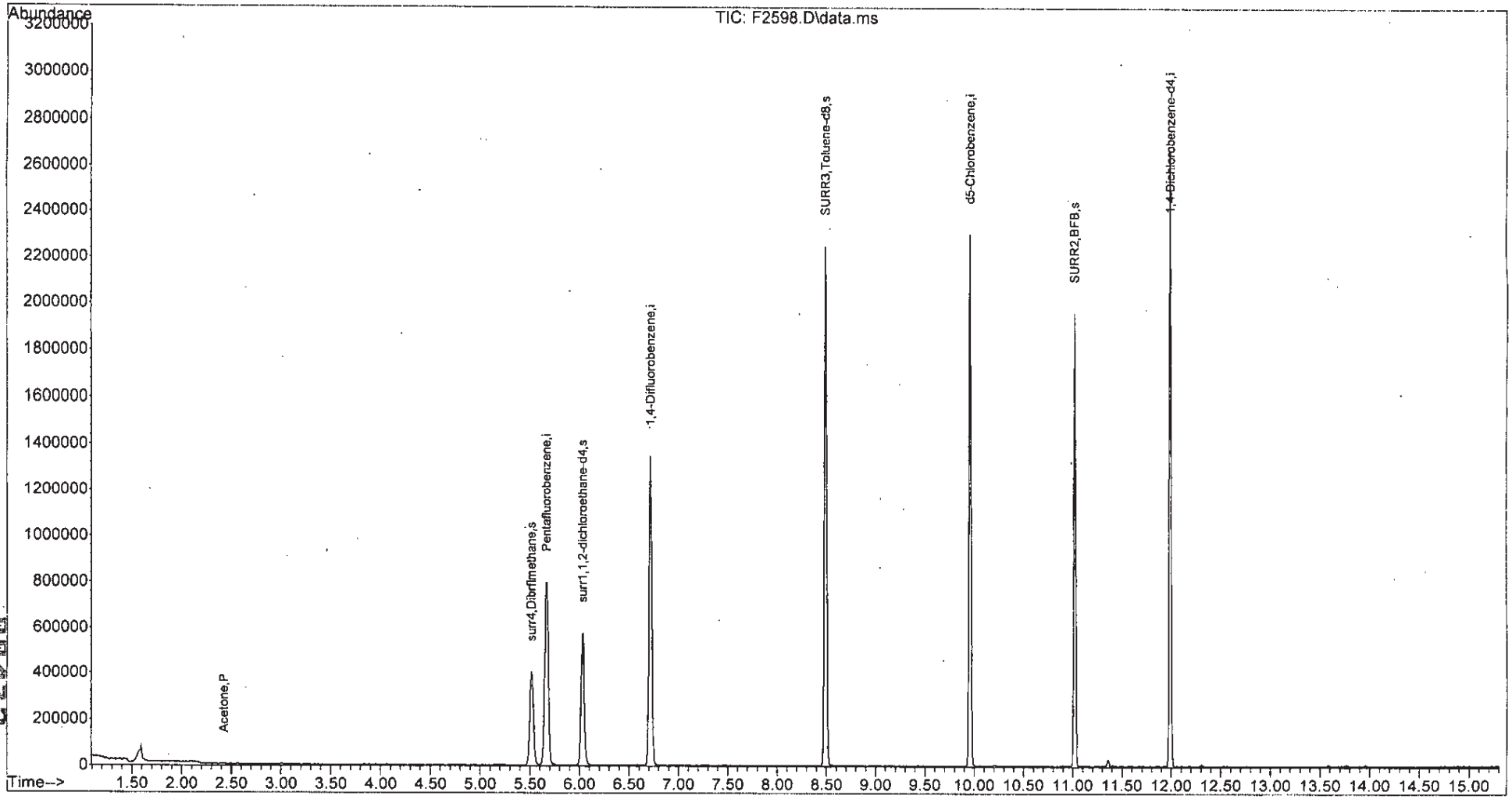
response 2202

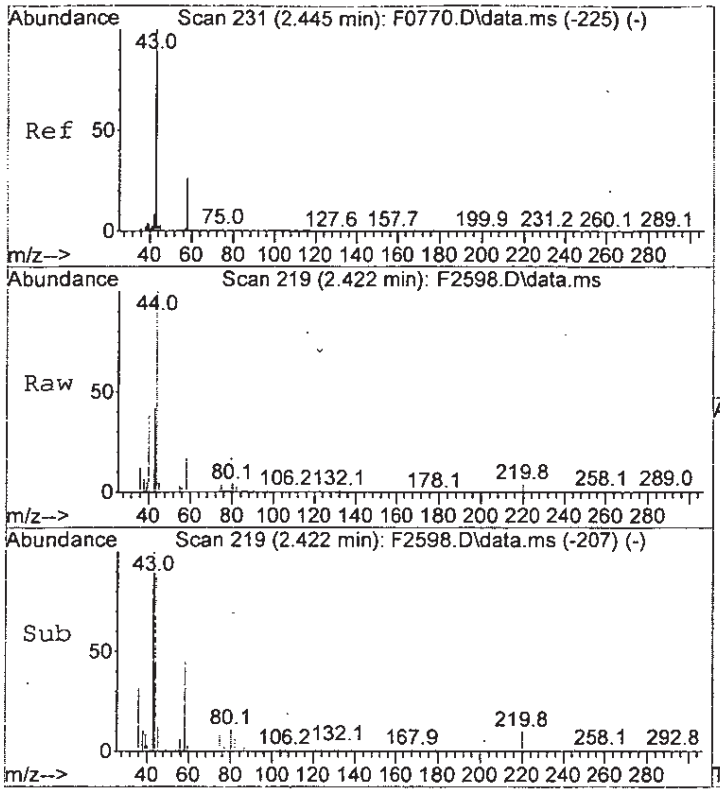
Ion	Exp%	Act%
43.00	100	100
58.00	26.10	39.37
42.00	8.30	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2598.D
Acq On : 30 Sep 2015 1:35 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 12:42:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

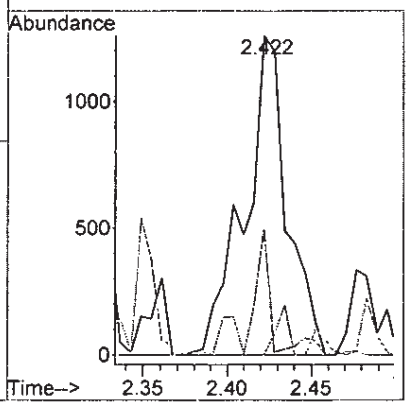




#15
Acetone
Concen: 0.36 ug/L m
RT: 2.422 min Scan# 219
Delta R.T. 0.001 min
Lab File: F2598.D
Acq: 30 Sep 2015 1:35 pm

Tgt Ion: 43 Resp: 2202

Ion	Ratio	Lower	Upper
43	100		
58	39.4	6.1	46.1
42	0.0	0.0	28.3



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	9/26/15 11:00
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1511392-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464094
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA14\Data\092615\B3318.D\	**Instrument Name:**	R-MS-14
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**17.1**		5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**18.3**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**19.2**		5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	**16.9**		5.0	0.30	
79-01-6	Trichloroethene (TCE)	**17.4**		5.0	0.22	
75-01-4	Vinyl Chloride	**23.2**		5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**19.2**		5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	**19.6**		5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	9/26/15 11:00	
Dibromofluoromethane	97	89-119	9/26/15 11:00	
Toluene-d8	97	87-121	9/26/15 11:00	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3318.D
Acq On : 26 Sep 2015 11:00 am
Operator : B Wojtasiewicz
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 01 12:36:15 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.484	168	170337	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	5.880	114	266916	50.00	ug/L		0.00
70) d5-Chlorobenzene	10.611	117	236794	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	13.232	152	117734	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.325	113	82053	48.50	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 97.00%				
47) surr1,1,2-dichloroetha...	4.892	65	95468	49.59	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.18%				
64) SURR3,Toluene-d8	8.690	98	321521	48.71	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.42%				
69) SURR2,BFB	11.994	95	122006	48.59	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 97.18%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.936	85	41985m	30.51	ug/L		
3) Chloromethane	1.039	50	40882	25.36	ug/L		99
4) Vinyl Chloride	1.100	62	40712	23.24	ug/L		96
5) Bromomethane	1.283	94	20978	22.25	ug/L		99
6) Chloroethane	1.350	64	24079	21.03	ug/L		95
7) Freon 21	1.472	67	62229	20.71	ug/L		96
8) Trichlorofluoromethane	1.509	101	41538	19.71	ug/L		98
9) Diethyl Ether	1.710	59	28569	16.39	ug/L		93
10) Freon 123a	1.710	67	38935	20.53	ug/L		99
11) Freon 123	1.753	83	44053	19.53	ug/L		96
12) Acrolein	1.783	56	12015	27.58	ug/L		98
13) 1,1-Diclethene	1.856	96	28336	19.22	ug/L		90
14) Freon 113	1.868	101	25767	17.19	ug/L		99
15) Acetone	1.899	43	16027	20.04	ug/L		97
16) 2-Propanol	2.015	45	49653	313.80	ug/L		94
17) Iodomethane	1.960	142	31697	21.19	ug/L		99
18) Carbon Disulfide	2.015	76	74434	18.36	ug/L		98
19) Acetonitrile	2.100	40	16647m	94.09	ug/L		
20) Allyl Chloride	2.131	76	15671	19.26	ug/L	#	78
21) Methyl Acetate	2.155	43	28106	16.80	ug/L		91
22) Methylene Chloride	2.228	84	34069	19.31	ug/L		93
23) TBA	2.350	59	86054	315.60	ug/L		93
24) Acrylonitrile	2.441	53	81929	90.76	ug/L		96
25) Methyl-t-Butyl Ether	2.490	73	98099	18.38	ug/L		97
26) trans-1,2-Dichloroethene	2.472	96	31717	19.63	ug/L		90
27) 1,1-Diclethane	2.886	63	52160	18.30	ug/L		98
28) Vinyl Acetate	2.972	86	6992	17.57	ug/L	#	57
29) DIPE	3.008	45	81255	16.15	ug/L		94
30) 2-Chloro-1,3-Butadiene	2.990	53	44408	16.96	ug/L		99
31) ETBE	3.453	59	78668	15.14	ug/L		96
32) 2,2-Dichloropropane	3.581	77	37399	16.81	ug/L		97
33) cis-1,2-Dichloroethene	3.588	96	35711	19.19	ug/L		89
34) 2-Butanone	3.630	43	20251	18.11	ug/L		91
35) Propionitrile	3.691	54	34283	92.49	ug/L		100

BA 10/1

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3318.D
Acq On : 26 Sep 2015 11:00 am
Operator : B Wojtasiewicz
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 01 12:36:15 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	3.917	130	22243	18.90	ug/L		94
37) Methacrylonitrile	3.923	67	18371	19.19	ug/L	#	75
38) Tetrahydrofuran	3.996	42	12719	19.46	ug/L		97
39) Chloroform	4.069	83	53825	18.27	ug/L		98
40) 1,1,1-Trichloroethane	4.331	97	40806	17.08	ug/L		97
41) TAME	5.343	73	79095	15.76	ug/L		99
43) Cyclohexane	4.417	41	25351	18.56	ug/L		93
45) Carbontetrachloride	4.618	121	9346	16.86	ug/L		96
46) 1,1-Dichloropropene	4.624	75	40587	17.99	ug/L		99
48) Benzene	4.990	78	125222	17.57	ug/L		97
49) 1,2-Dichloroethane	5.045	62	42059	17.33	ug/L		96
50) Iso-Butyl Alcohol	5.081	43	36374	314.39	ug/L		95
51) n-Heptane	5.709	43	31021	20.95	ug/L		91
52) 1-Butanol	6.544	56	59237	813.93	ug/L		96
53) Trichloroethene	6.361	130	31639	17.43	ug/L		97
54) Methylcyclohexane	6.739	55	36230	19.63	ug/L		88
55) 1,2-Diclpropane	6.813	63	31698	17.53	ug/L		96
56) Dibromomethane	7.056	93	21199	17.88	ug/L		99
57) 1,4-Dioxane	7.209	88	13158	342.36	ug/L		93
58) Methyl Methacrylate	7.300	69	27327	17.74	ug/L		96
59) Bromodichloromethane	7.465	83	37591	17.31	ug/L		97
60) 2-Nitropropane	7.910	41	11211	30.74	ug/L		94
61) 2-Chloroethylvinyl Ether	8.142	63	20015	17.52	ug/L		87
62) cis-1,3-Dichloropropene	8.294	75	48325	18.45	ug/L		95
63) 4-Methyl-2-pentanone	8.617	43	34132	17.04	ug/L		99
65) Toluene	8.788	91	132263	17.12	ug/L		96
66) trans-1,3-Dichloropropene	9.178	75	40590	17.72	ug/L		97
67) Ethyl Methacrylate	9.416	69	45695	17.58	ug/L		97
68) 1,1,2-Trichloroethane	9.410	97	31417	17.49	ug/L		99
71) Tetrachloroethene	9.550	164	23691	16.87	ug/L		92
72) 2-Hexanone	9.824	43	26502	17.77	ug/L		95
73) 1,3-Dichloropropane	9.617	76	53860	17.84	ug/L		96
74) Dibromochloromethane	9.897	129	28229	16.47	ug/L		97
75) N-Butyl Acetate	10.056	43	49893	17.35	ug/L		97
76) 1,2-Dibromoethane	9.995	107	31934	17.71	ug/L		95
78) Chlorobenzene	10.647	112	85617	17.31	ug/L		95
80) 1,1,1,2-Tetrachloroethane	10.769	131	25696	16.39	ug/L		99
81) Ethylbenzene	10.824	106	43904	17.16	ug/L	#	88
82) (m+p)Xylene	10.970	106	110774	35.74	ug/L		99
83) o-Xylene	11.415	106	54817	17.72	ug/L		93
84) Styrene	11.440	104	95071	18.34	ug/L		97
85) Bromoform	11.604	173	18380	15.77	ug/L		95
87) Isopropylbenzene	11.854	105	129941	17.23	ug/L		98
88) Cyclohexanone	11.903	55	129043	348.80	ug/L		94
89) trans-1,4-Dichloro-2-B...	12.263	53	10908	18.28	ug/L		98
91) 1,1,2,2-Tetrachloroethane	12.202	83	45803	17.58	ug/L		96
92) Bromobenzene	12.129	156	35926	18.10	ug/L		99
93) 1,2,3-Trichloropropane	12.214	110	14191	18.25	ug/L	#	80
94) n-Propylbenzene	12.305	91	157654	18.79	ug/L		99
95) 2-Chlorotoluene	12.360	91	94476	17.58	ug/L		94
96) 3-Chlorotoluene	12.482	91	112913	20.53	ug/L		90

00476

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3318.D
Acq On : 26 Sep 2015 11:00 am
Operator : B Wojtasiewicz
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 01 12:36:15 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	4-Chlorotoluene	12.482	91	112483	18.19	ug/L	96
98)	1,3,5-Trimethylbenzene	12.513	105	108076	18.31	ug/L	100
99)	tert-Butylbenzene	12.848	119	89050	18.22	ug/L	95
100)	1,2,4-Trimethylbenzene	12.897	105	113280	18.71	ug/L	98
102)	sec-Butylbenzene	13.080	105	126758	18.45	ug/L	99
103)	p-Isopropyltoluene	13.250	119	108432	19.04	ug/L	99
104)	1,3-Dclbenz	13.153	146	63774	17.70	ug/L	95
105)	1,4-Dclbenz	13.250	146	65470	17.40	ug/L	98
108)	n-Butylbenzene	13.671	91	101453	20.15	ug/L	99
109)	1,2-Dclbenz	13.628	146	63709	17.56	ug/L	99
110)	1,2-Dibromo-3-chloropr...	14.433	157	7761	14.63	ug/L	86
114)	1,2,4-Tcbenzene	15.274	180	41537	18.11	ug/L	99
115)	Hexachlorobt	15.482	225	17619	21.12	ug/L	97
116)	Naphthalen	15.512	128	131237	17.72	ug/L	99
117)	1,2,3-Tclbenzene	15.756	180	41097	18.30	ug/L	96

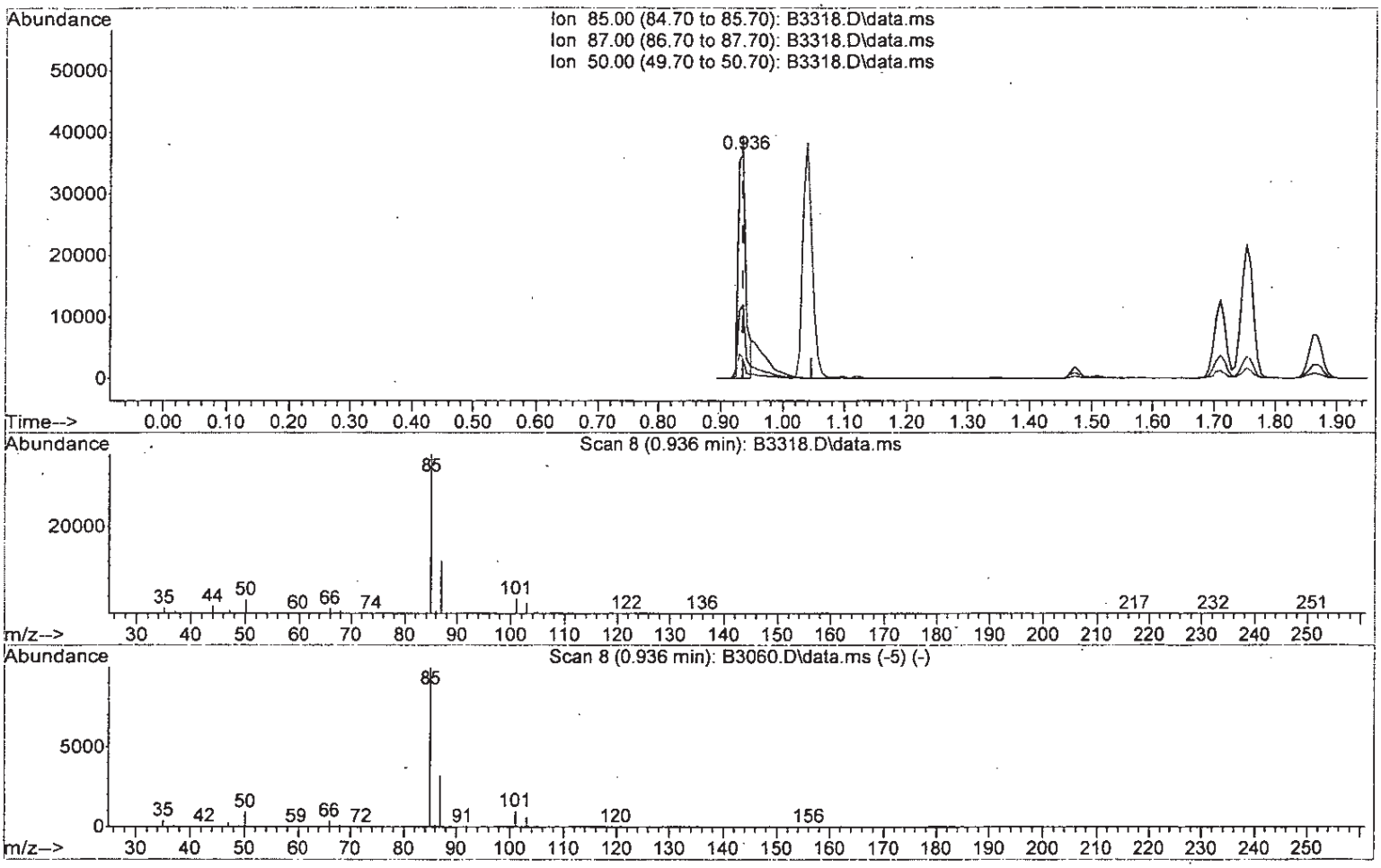
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00477

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3318.D
Acq On : 26 Sep 2015 11:00 am
Operator : B Wojtasiewicz
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 28 06:34:30 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3318.D\data.ms

(2) Dichlorodifluoromethane (P)

0.936min (+0.000) 23.32 ug/L

response 32087

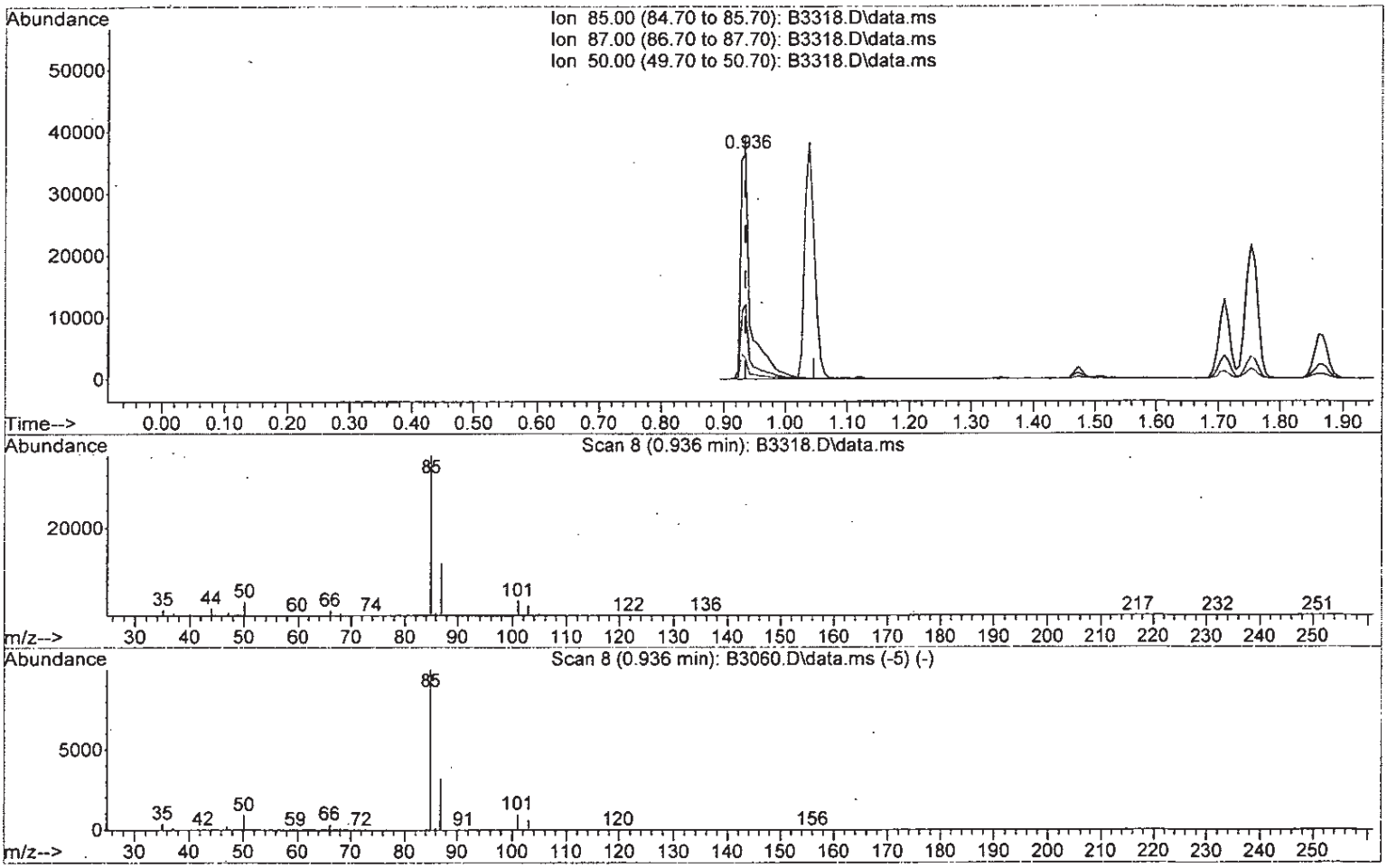
Ion	Exp%	Act%
85.00	100	100
87.00	35.00	32.73
50.00	10.60	8.66
0.00	0.00	0.00

B

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3318.D
Acq On : 26 Sep 2015 11:00 am
Operator : B Wojtasiewicz
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 28 06:34:30 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



TIC: B3318.D\data.ms

(2) Dichlorodifluoromethane (P)

0.936min (+0.000) 30.51 ug/L m

response 41985

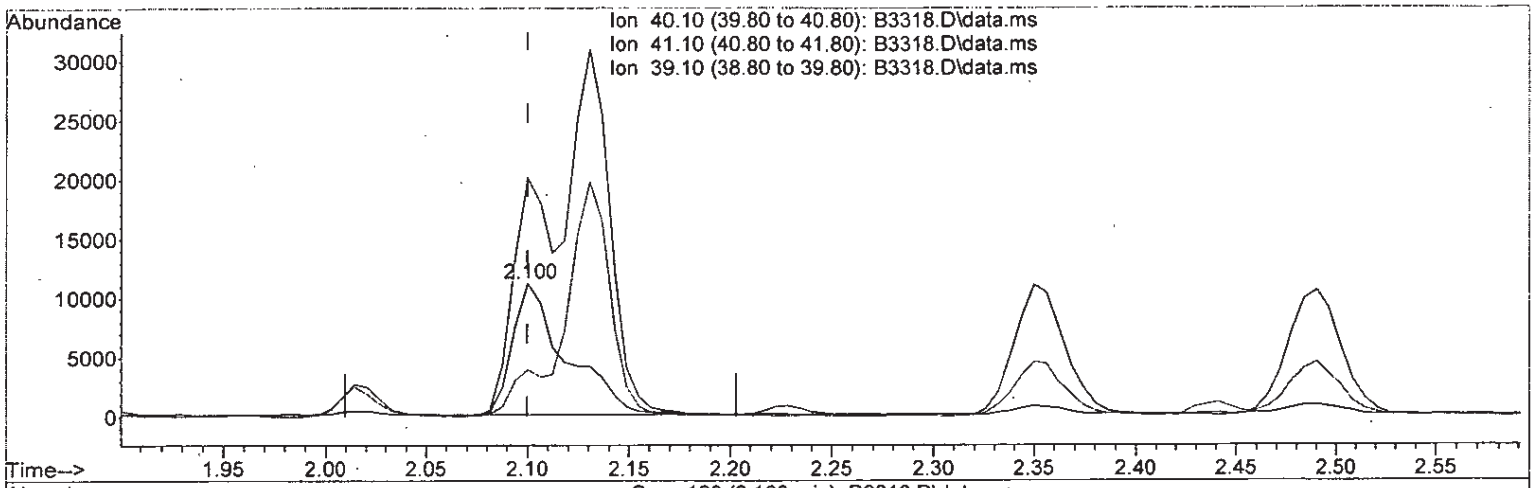
Ion	Exp%	Act%
85.00	100	100
87.00	35.00	32.73
50.00	10.60	8.66
0.00	0.00	0.00

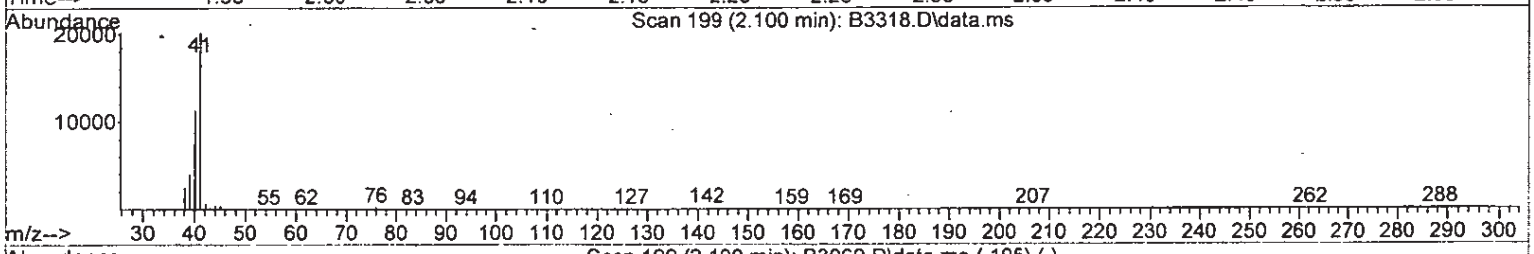
A
BA 10/1
(BC)
10/2/15

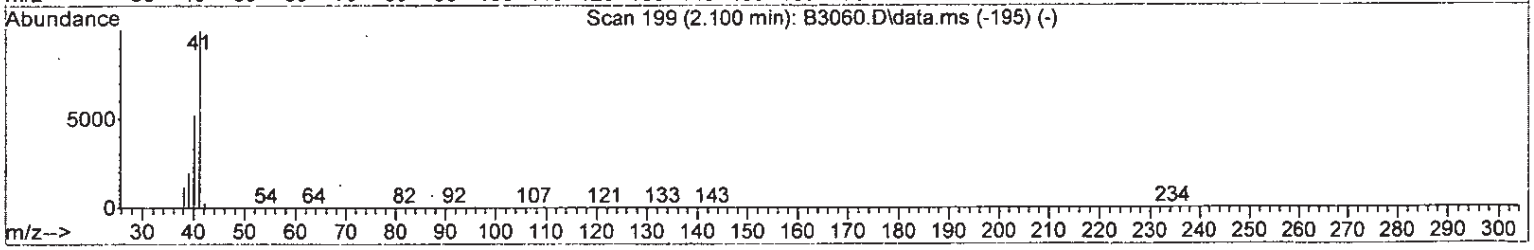
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3318.D
Acq On : 26 Sep 2015 11:00 am
Operator : B Wojtasiewicz
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 28 06:34:30 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration







TIC: B3318.D\data.ms

(19) Acetonitrile

2.100min (+0.000) 113.00 ug/L

response 19993

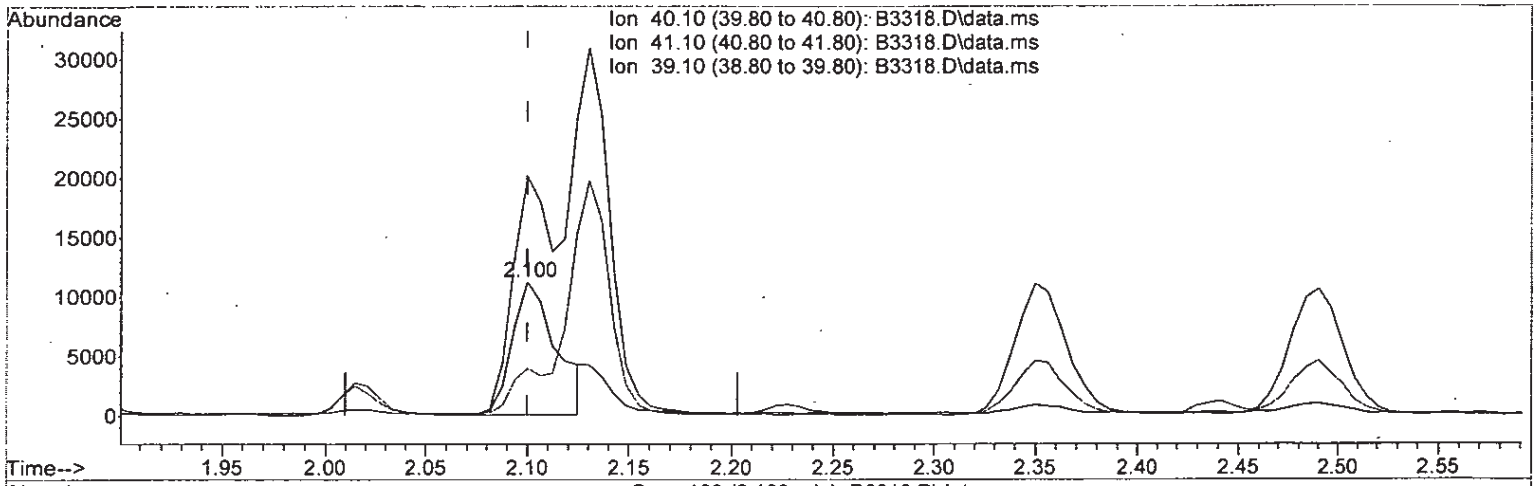
Ion	Exp%	Act%
40.10	100	100
41.10	191.80	178.65
39.10	39.30	35.38
0.00	0.00	0.00

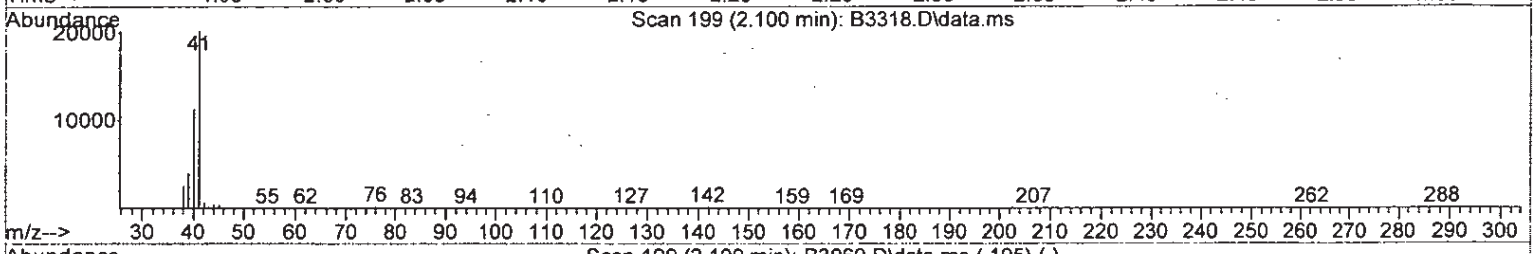
B

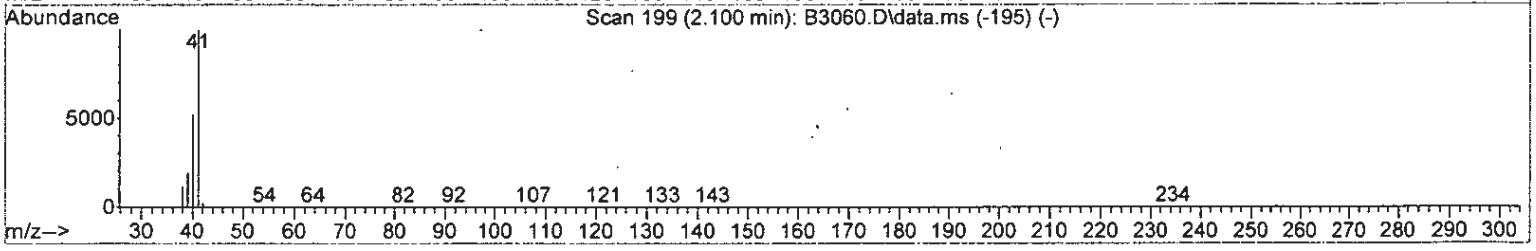
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3318.D
Acq On : 26 Sep 2015 11:00 am
Operator : B Wojtasiewicz
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 28 06:34:30 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration







TIC: B3318.D\data.ms

(19) Acetonitrile

2.100min (+0.000) 94.09 ug/L m

response 16647

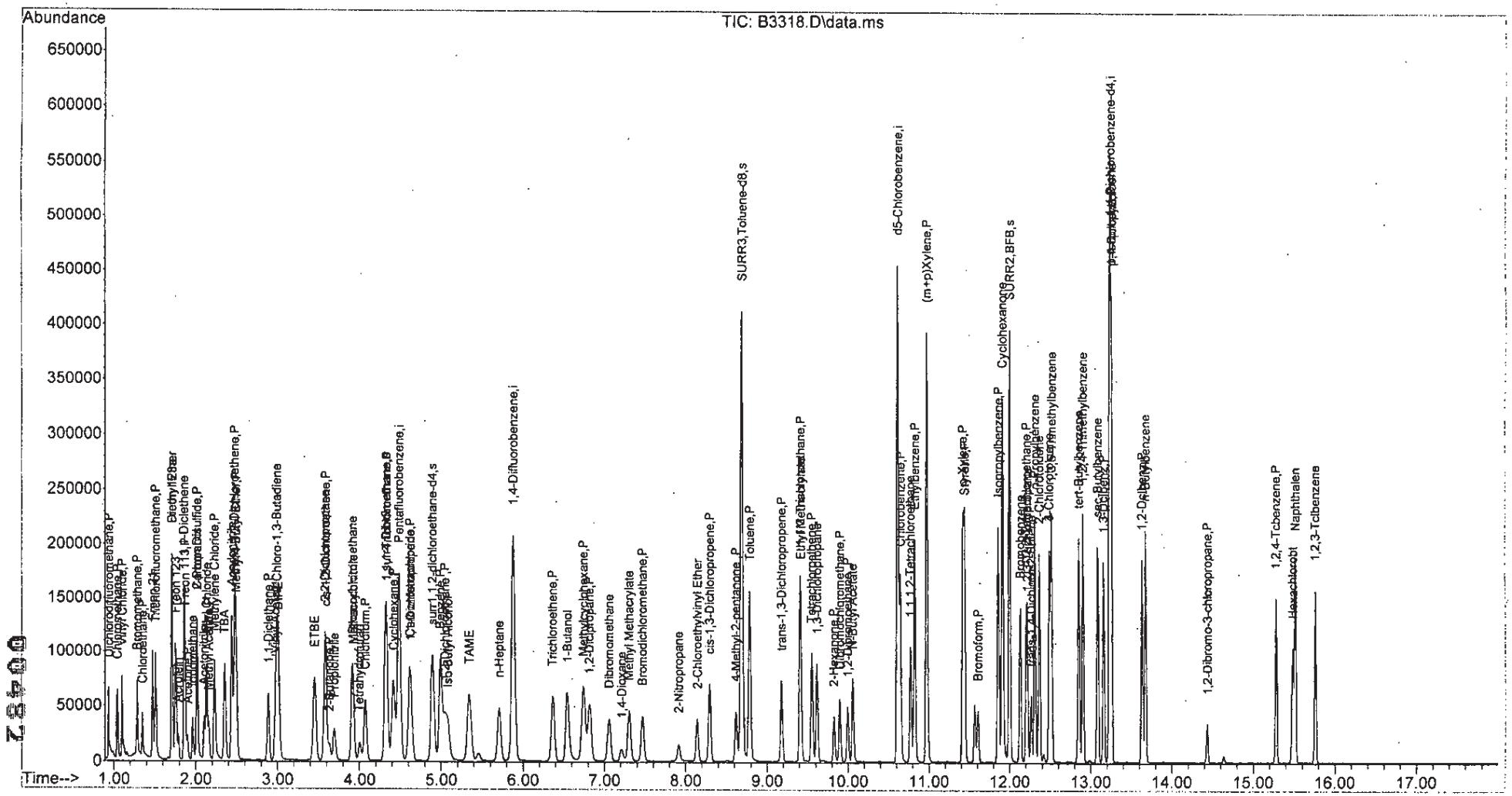
Ion	Exp%	Act%
40.10	100	100
41.10	191.80	178.65
39.10	39.30	35.38
0.00	0.00	0.00

A
BA 10/1
FW 10/2/15 (BC)

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\092615\
Data File : B3318.D
Acq On : 26 Sep 2015 11:00 am
Operator : B Wojtasiewicz
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 01 12:36:15 2015
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091015.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Sep 10 14:17:13 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1508047
Project:	Binghamton/5101.0003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	9/30/15 12:42
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1511664-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	8260C	**Analysis Lot:**	464754
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\093015\F2596.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**16.2**		5.0	0.36	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**19.5**		5.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**18.7**		5.0	0.57	
127-18-4	Tetrachloroethene (PCE)	**16.2**		5.0	0.30	
79-01-6	Trichloroethene (TCE)	**17.1**		5.0	0.22	
75-01-4	Vinyl Chloride	**25.6**		5.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**19.8**		5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	**19.4**		5.0	0.33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85-122	9/30/15 12:42	
Dibromofluoromethane	96	89-119	9/30/15 12:42	
Toluene-d8	102	87-121	9/30/15 12:42	

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2596.D
Acq On : 30 Sep 2015 12:42 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 13:46:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FD 10/1/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	788697	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	1155461	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	1048727	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	554499	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	357802	47.99	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 95.98%			
46) surr1,1,2-dichloroetha...	6.031	65	476749	45.10	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.20%			
64) SURR3,Toluene-d8	8.494	98	1381226	50.83	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.66%			
69) SURR2,BFB	11.018	95	532201	47.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	186505	26.70	ug/L	98
3) Chloromethane	1.294	50	278604	29.27	ug/L	97
4) Vinyl Chloride	1.379	62	210752	25.58	ug/L	98
5) Bromomethane	1.617	94	101876	23.38	ug/L	98
6) Chloroethane	1.703	64	115690	23.44	ug/L	98
7) Freon 21	1.867	67	299418	21.43	ug/L	99
8) Trichlorofluoromethane	1.910	101	201564	19.01	ug/L	99
9) Diethyl Ether	2.166	59	177321	22.87	ug/L	94
10) Freon 123a	2.172	67	186734	20.13	ug/L	98
11) Freon 123	2.233	83	187365	19.63	ug/L	97
12) Acrolein	2.269	56	92447	36.66	ug/L	98
13) 1,1-Diclethene	2.367	96	120608	18.69	ug/L	92
14) Freon 113	2.379	101	118924	16.51	ug/L	92
15) Acetone	2.416	43	131968	19.56	ug/L	98
16) 2-Propanol	2.574	45	475833	332.52	ug/L	95
17) Iodomethane	2.501	142	186901	20.47	ug/L	92
18) Carbon Disulfide	2.562	76	401202	20.37	ug/L	98
19) Acetonitrile	2.684	40	150199m	106.33	ug/L	
20) Allyl Chloride	2.727	76	77184	18.76	ug/L #	40
21) Methyl Acetate	2.757	43	240466	19.72	ug/L	96
22) Methylene Chloride	2.849	84	150559	18.62	ug/L	94
23) TBA	3.013	59	680973	344.50	ug/L	94
24) Acrylonitrile	3.129	53	626485	118.41	ug/L	98
25) Methyl-t-Butyl Ether	3.184	73	544459	20.35	ug/L	94
26) trans-1,2-Dichloroethene	3.166	96	137867	19.42	ug/L	94
27) 1,1-Diclethane	3.708	63	295310	19.52	ug/L	98
28) Vinyl Acetate	3.812	86	36014	23.56	ug/L #	71
30) 2-Chloro-1,3-Butadiene	3.842	53	308275	18.61	ug/L	95
32) 2,2-Dichloropropane	4.604	77	194221	17.32	ug/L	98
33) cis-1,2-Dichloroethene	4.623	96	163282	19.78	ug/L #	72
34) 2-Butanone	4.684	43	184657	21.74	ug/L	98
35) Propionitrile	4.763	54	251516	110.46	ug/L	99
36) Bromochloromethane	5.043	130	106128	20.59	ug/L	87
37) Methacrylonitrile	5.056	67	100230	20.21	ug/L	91

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2596.D
Acq On : 30 Sep 2015 12:42 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 13:46:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) Tetrahydrofuran	5.147	42	114768	19.63	ug/L		90
39) Chloroform	5.245	83	255114	18.71	ug/L		98
40) 1,1,1-Trichloroethane	5.519	97	193277	16.20	ug/L		94
42) Cyclohexane	5.604	41	204054	17.70	ug/L		93
44) Carbontetrachloride	5.787	121	49832	16.00	ug/L		95
45) 1,1-Dichloropropene	5.799	75	194162	18.66	ug/L		99
47) Benzene	6.104	78	590941	19.10	ug/L		87
48) 1,2-Dichloroethane	6.141	62	261347	18.72	ug/L		97
49) Iso-Butyl Alcohol	6.147	43	401334	380.71	ug/L		98
51) n-Heptane	6.586	43	315390	21.44	ug/L		96
52) 1-Butanol	7.080	56	892	1.60	ug/L		88
53) Trichloroethene	7.031	130	157085	17.11	ug/L		97
54) Methylcyclohexane	7.262	55	258771	20.24	ug/L		97
55) 1,2-Diclpropane	7.305	63	183671	20.38	ug/L		97
56) Dibromomethane	7.445	93	107879	19.69	ug/L		98
57) 1,4-Dioxane	7.506	88	72597	370.94	ug/L		96
58) Methyl Methacrylate	7.531	69	152902	20.41	ug/L	#	86
59) Bromodichloromethane	7.671	83	187804	17.72	ug/L		96
60) 2-Nitropropane	7.945	41	96158	25.12	ug/L		96
61) 2-Chloroethylvinyl Ether	8.067	63	126069	18.79	ug/L		99
62) cis-1,3-Dichloropropene	8.201	75	251734	20.20	ug/L		99
63) 4-Methyl-2-pentanone	8.402	43	325489	19.99	ug/L		97
65) Toluene	8.561	91	613987	19.05	ug/L		98
66) trans-1,3-Dichloropropene	8.829	75	231632	20.12	ug/L		99
67) Ethyl Methacrylate	8.963	69	266107	20.60	ug/L		96
68) 1,1,2-Trichloroethane	9.012	97	156794	20.51	ug/L		87
71) Tetrachloroethene	9.146	164	109795	16.24	ug/L		96
72) 2-Hexanone	9.299	43	251598	19.82	ug/L		92
73) 1,3-Dichloropropane	9.177	76	280696	20.23	ug/L		100
74) Dibromochloromethane	9.402	129	156032	19.41	ug/L		94
75) N-Butyl Acetate	9.451	43	446359	19.57	ug/L		97
76) 1,2-Dibromoethane	9.494	107	169723	19.85	ug/L		98
78) Chlorobenzene	9.981	112	414772	19.03	ug/L		99
80) 1,1,1,2-Tetrachloroethane	10.067	131	137659	18.32	ug/L		98
81) Ethylbenzene	10.103	106	212528	18.33	ug/L		94
82) (m+p)Xylene	10.213	106	527648	38.68	ug/L		99
83) o-Xylene	10.567	106	263725	18.56	ug/L		99
84) Styrene	10.579	104	480978	20.78	ug/L		95
85) Bromoform	10.731	173	105447	17.19	ug/L		99
87) Isopropylbenzene	10.896	105	656929	18.79	ug/L		98
88) Cyclohexanone	10.957	55	1058159	438.35	ug/L		90
89) trans-1,4-Dichloro-2-B...	11.201	53	85686	19.75	ug/L		94
91) 1,1,2,2-Tetrachloroethane	11.152	83	214600	20.55	ug/L		93
92) Bromobenzene	11.140	156	184396	19.86	ug/L		97
93) 1,2,3-Trichloropropane	11.182	110	70504	19.19	ug/L	#	78
94) n-Propylbenzene	11.249	91	806254	20.19	ug/L		99
95) 2-Chlorotoluene	11.310	91	478542	19.57	ug/L		97
97) 4-Chlorotoluene	11.402	91	568438	19.60	ug/L		97
98) 1,3,5-Trimethylbenzene	11.402	105	563834	19.91	ug/L		96
99) tert-Butylbenzene	11.670	119	473978	19.69	ug/L		97
100) 1,2,4-Trimethylbenzene	11.713	105	603922	20.92	ug/L		98

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2596.D
Acq On : 30 Sep 2015 12:42 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

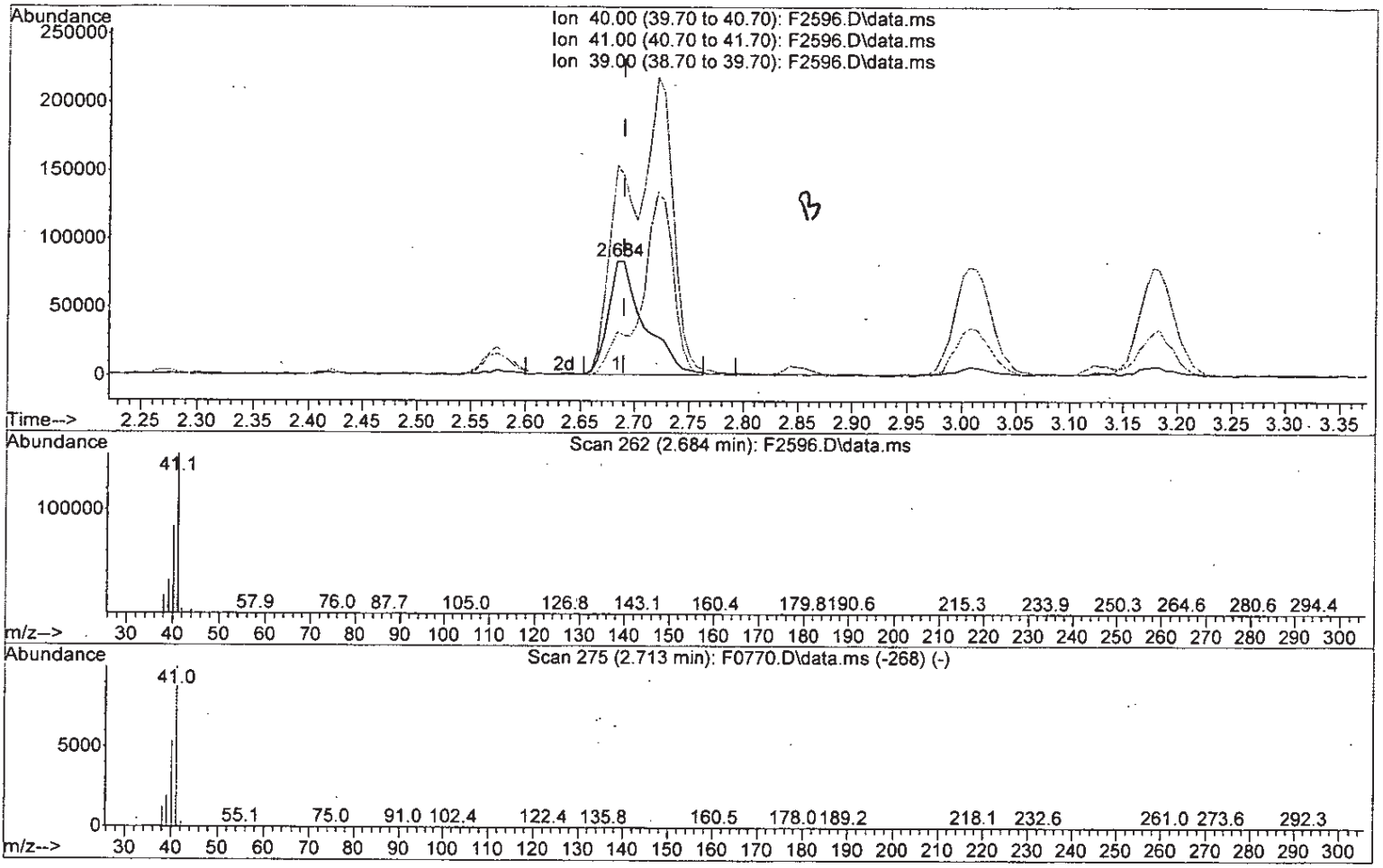
Quant Time: Sep 30 13:46:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) sec-Butylbenzene	11.853	105	700373	19.97	ug/L	97
103) p-Isopropyltoluene	11.975	119	619041	20.78	ug/L	97
104) 1,3-Dclbenz	11.932	146	346895	19.83	ug/L	98
105) 1,4-Dclbenz	12.005	146	354137	18.89	ug/L	99
108) n-Butylbenzene	12.304	91	587970	20.11	ug/L	99
109) 1,2-Dclbenz	12.310	146	344808	19.54	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.926	157	54069	19.19	ug/L	88
114) 1,2,4-Tcbenzene	13.584	180	282878	20.05	ug/L	98
115) Hexachlorobt	13.725	225	113312	19.34	ug/L	96
116) Naphthalen	13.773	128	882352	22.59	ug/L	100
117) 1,2,3-Tclbenzene	13.962	180	288751	20.66	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2596.D
Acq On : 30 Sep 2015 12:42 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 12:57:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2596.D\data.ms

(19) Acetonitrile

2.684min (-0.006) 135.01 ug/L

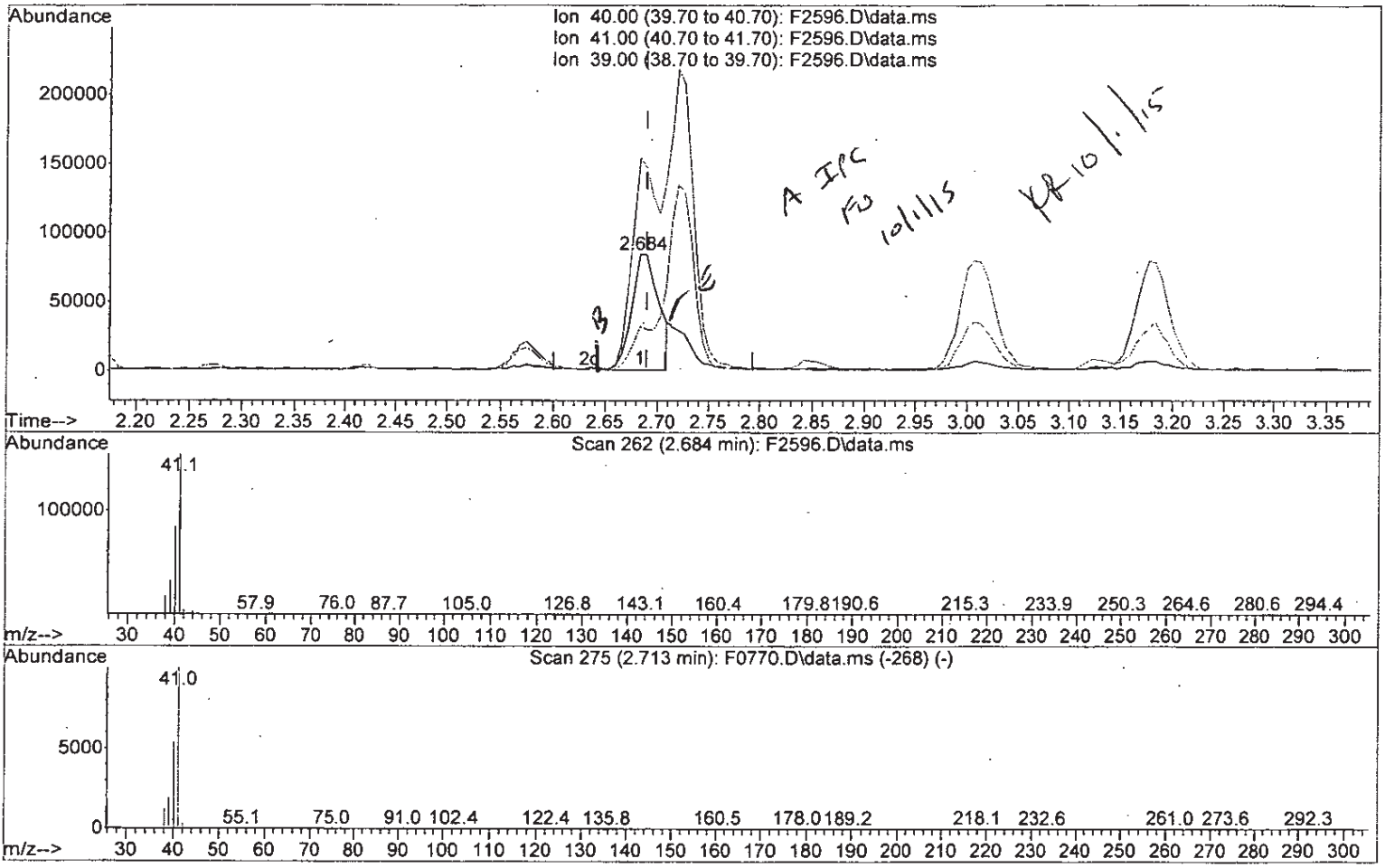
response 190714

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	183.34
39.00	35.30	38.20
0.00	0.00	0.00

00487

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2596.D
Acq On : 30 Sep 2015 12:42 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 12:57:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2596.D\data.ms

(19) Acetonitrile

2.684min (-0.006) 106.33 ug/L m

response 150199

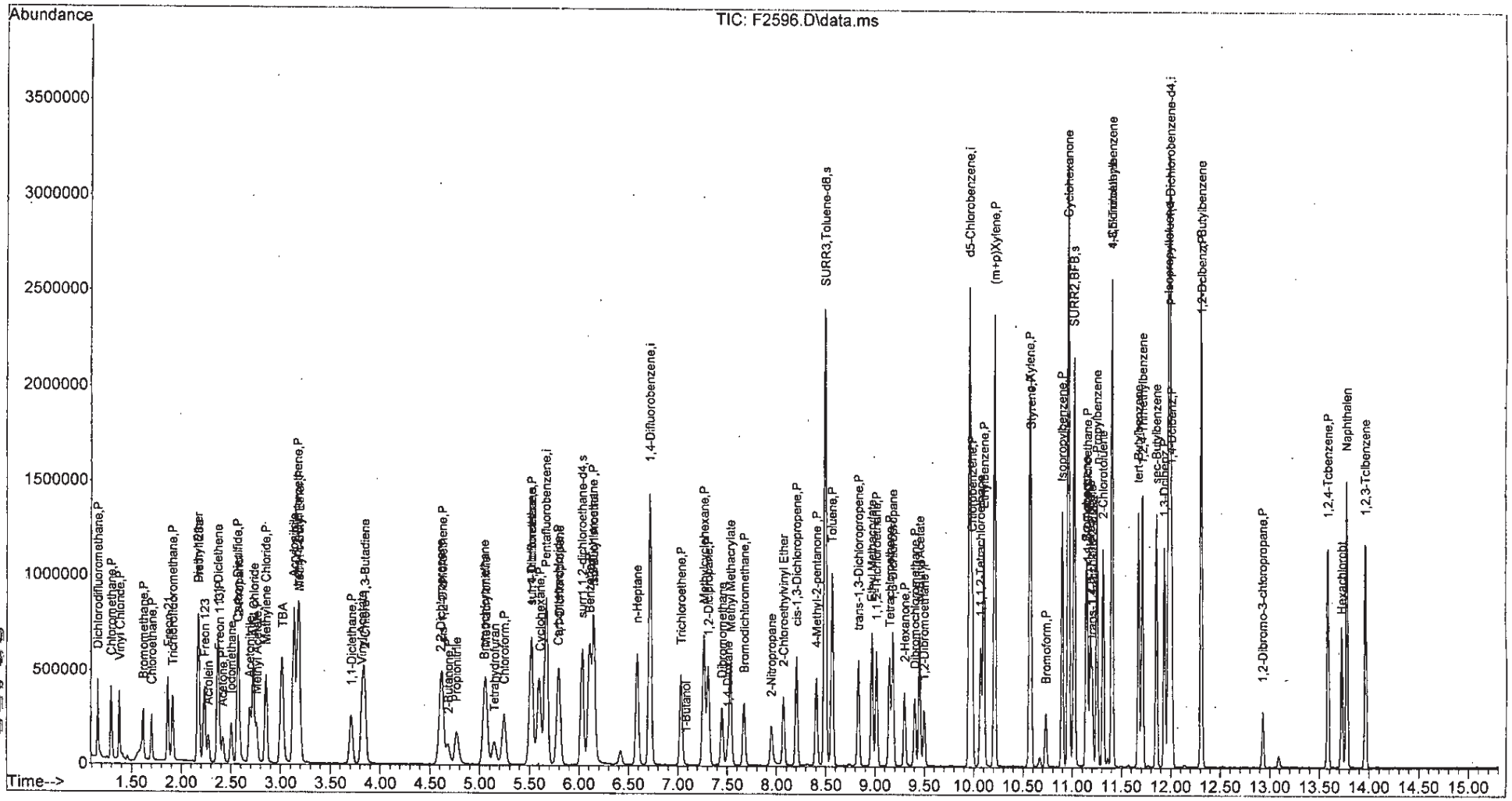
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	183.34
39.00	35.30	38.20
0.00	0.00	0.00

00488

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\093015\
Data File : F2596.D
Acq On : 30 Sep 2015 12:42 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 13:46:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



W091015.M Wed Sep 30 13:46:37 2015 MSVO10

Analysis: 8260C | Analyst: F. Nagler | Tune Method: T091015.M

Date: 9/10/15 | Data Path: j:\acqudata\msvoa 10\ 091015 | Run Method: W091015.M

Instr. MS #10 | LIMS Run# : —

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								F1988	Y	
1	TUNE								89	Y	
2	ICAL BLK								90	Y	
3	0.5 ppb Std								91	Y	
4	1.0								92	Y	
5	2.0								93	Y	
6	5.0								94	Y	
7	20								95	Y	
8	50								96	Y	
9	100								97	Y	
10	150								98	Y	
11	200 ↓								↓ 99	Y	
12	BLK								F2000	Y	
13	BLK								01	Y	
14	50 ppb ICV								02	Y	
15	BLK								03	Y	
16	BLK								↓ 04	Y	

WATER ICAL TABLE

CONC (PPB)	0.5	1.0	2.0	5.0	20	50	100	150	200
1° T|G = 83998	10mL/1mL → 5mL/5mL	10mL/5mL	20mL/5mL	50mL/5mL	2mL/5mL	5mL/5mL	10mL/5mL	15mL/5mL	20mL/5mL
1° HSL = 84071	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° Fr = 83938	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° HBO = 84086	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° OCC = 83964	↓	↓	↓	↓	↓	↓	↓	↓	↓

All samples = 5 mL + 5 uL combined IS/Surr + — mL purged

Primary :
Primary :
Primary :
Primary :
Primary :

Fr Secondary 200 : 84037 - 12.5uL
T|G Secondary 50 : 83536 - 5uL
HSL Secondary : 84120 -
HBO Secondary : 83224 -
OCC Secondary : 83965 -

50mL (ICV)

Combined IS/Surr : —
Surrogate 50 : 83690
Internal Std 50 : 83689

06408

Analysis: 8260-M3D | Analyst: Ben Wightman 122 | Tune Method: —

Date: 09/10/15 | Data Path: j:\acqudata\msvoa14\data\091015 | Run Method: W091015.M

Instr. MS#14 | LIMS Run#: —

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	Blank					—	—	—	83051	—	
2	"					"	"	"	52	—	
3	Tune					"	"	—	53	YT	
1	ICAL Blank		425mL Evion				1		54	Y	
2	0.5 ppb		5mL 1°5ppm / 50mL	Evion			1		55	Y	
3	1 ppb		10 mL /				1		56	Y	
4	2 ppb		20mL /				1		57	Y	
5	5 ppb		50mL /				1		58	Y	
6	20 ppb		2mL 1°(TG/M3D/M5L/Ft+)	(OCC) / 50mL DI			1		59	Y	
7	50 ppb		5mL /	/			1		60	Y	
8	100 ppb		10mL /	/			1		61	Y	
9	150 ppb		15mL /	/			1		62	Y	
10	200 ppb		20mL	/			1		63	Y	
11	Blank					—	1	—	64	(Y)	use to evaluate C/O
12	ICV 50ppb						1		65	(Y)	not For Acrolein
13	Blank					—	1	—	66	—	
14	ICV-MSL 50ppb		5mL 2°MSL #84120	/ 50mL DI			2		67	Y	evaluate Acrolein only
15	Blank	—				—	2	—	68	—	
16	↓	—				—	3	—	69	—	
17	↓	—				—	4	—	70	—	

BL 09/10/15

All samples = 5 mL + X uL ~~combined~~ IS/Surr. 5 mL purged

500 Primary TG : 83998
Primary M3D : 84086
Primary M5L : 84071
Primary OCC : 83964
Primary Ft+ : 83938

500 Secondary TG : 83536 5mL
Secondary M3D : 83224
Secondary M5L : 83685
Secondary OCC : 83965
200 Secondary Ft+ : 84037 12.5mL

50mL = ICV

Combined IS/Surr : —
Surrogate 50 : 83510
Internal Std 50 : 83509

Analysis: 8260C | Analyst: F.Nagler | Tune Method: T091015.M

Date: 9/30/15 | Data Path: j:\acqudata\msvoa101093015 | Run Method: W091015.M

Instr. MS #10 | LIMS Run#: 464754

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								F2592	Y	
2	TUNE								93	Y	
1	CCV								94	Y	
2	LCS								95	(N)	
2	LCS								96	Y	
3	MBLK								97	(N)	
4	MBLK								98	Y	
5	R1507880-007	1.0		[redacted]	11603	4	2	<2	99	Y	
6	R1508035-019	1.0		[redacted]			2	<2	F2600	Y	
7	R1508191-003	1.0		[redacted]			1	<2	01	Y	
8	-001	1.0					1	<2	02	Y	
9	-002	1.0					1	<2	03	Y	
10	R1508047-006	1.0		[redacted]	7979	4	2	(7)	04	Y	
11	-002	2.5	20/50mL				3	(7)	05	(N)	Not needed
12	BLK								06	Y	
13	R1508080-003	1.0		[redacted]	6691	2	2	<2	07	Y	
14	-004	10.0	5/50mL				4	<2	08	Y	DL
15	-006	5.0	10/50mL				2	<2	09	Y	DL
16	BLK								10	Y	
17	R1508094-001	250.0	2/50mL → 5/50mL	[redacted]	14202	1	1	(5)	11	Y	
18	-002	250.0					1	(5)	12	Y	
19	-003	250.0					1	(5)	13	Y	
20	-004	250.0					1	(5)	14	Y	
21	BLK								15	Y	
22	R1508080-004MS	10.0	5/50mL	[redacted]	6691	2	4	<2	16	Y	
23	-004MSD	10.0					4	<2	17	Y	
24	BLK								18	Y	
			FJ 10/1/15								

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

T/G Primary 500 : 84370 - 5uL/50mL

HSL Primary | : 84071 - ↓ (CCV)

Fr Primary ↓ : 83938 - ↓

Primary :

Primary :

Fr Secondary 200 : 84037 - 5uL

T/G Secondary 500 : 84402 - 2mL

HSL Secondary ↓ : 84120 - ↓

Secondary :

Secondary :

50mL (LCS) -12.5uL -5uL ↓

50mL (SM) Combined IS/Surr : —

Surrogate 50 : 84399

Internal Std 50 : 84398

0004

Analysis: 8260-MS0 Analyst: Ben Wojciechowicz Tune Method: -

Date: 09/26/15 Data Path: j:\acqudata\msvoa14 \ DATA \ 092615 Run Method: W091015.M

Instr. MS#14 LIMS Run#: 464094

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	Blank	-				-	-	-	13314	-	
2	↓	-				-	-	-	15	-	
3	Tune	-				-	-	-	16	YT	
3.1	CCV	-				-	1	-	17	YC	
2	LCS	-				-	1	-	18	YL	
3	MBlank	-				-	1	-	19	(Y)	dil for o/o
4	MBlank	-				-	2	-	20	YB	
5	RQ1511372-01	1	RQ1511374-01	TLA MB			1	5	21	Y	
6	R1507707-001	10	5mL / 50mL	[redacted]	6680	2	1	5	22	Y	
7	R1507711-002	10	5mL/50mL	[redacted]	7408	2	1	5	23	Y	
8	R1507769-001	10	5mL / 50mL	[redacted]	6722	2	1	5	24	Y	
9	R1507771-001	20	2.5mL / 50mL	↓	↓	6	1	8	25	(Y)	NT over range, OK to report 1/20 RW 09/28/15 EE
10	R1507979-001	1		[redacted]	6368	2	1	<2	26	Y	
11	↓ -007	1		↓	↓	↓	1	<2	27	Y	
12	R1508047-001	1		[redacted]	6646	4	1	<2	28	Y	
13	-011	1					1	<2	29	Y	
14	-002	1					1	8	30	(Y)	over range, report at 1/25
15	-003	1					1	8	31	Y	
16	-005	1					1	8	32	Y	
17	-007	1					1	<2	33	Y	
18	-008	1					1	<2	34	Y	
19	-009	1					1	8	35	Y	
20	-010	1					1	<2	36	Y	
21	-012	1					1	7	37	Y	
22	-006	10	20mL/200mL				1	7	38	(N)	over dilute, re-vial
23	-004	1					1	(7)	39	Y	
24	-006MS	10	see above				2	7	40	(Y)	parent sample over dilute, run QC only
25	-006DMS	10	↓	↓	↓	↓	3	7	41	↓	
26-35	Blanks	-				-	1-10	-	42-51	-	

All samples = 5 mL + 5 uL ~~combined~~ IS/Surr. 5 mL purged

RW 09/28/15

464094

Primary TG : 84370 5mL
Primary MBO : 84086 50mL
Primary MXL : 84071 = CCV
Primary D4 : 83938
Primary :

Secondary TG : 84402 2mL
Secondary MBO : 84343 50mL
Secondary MXL : 84120 = LCS
Secondary D4 : 84037 5mL
Secondary :

4.25mL ↓ 10.6mL | 42.5mL = MB, DMS

Combined IS/Surr : -
Surrogate 50 : 84399
Internal Std 50 : 84398

Appendix D

VERINA Consulting Group, LLC

ACTIVE SUB-SLAB DEPRESSURIZATION (ASD) INSPECTION LOG

Former Dover Electronics Site, Binghamton, NY (5101.0003)

Date	Time	System On? (Y/N)	E-1	E-2	E-3	E-4	Comments
			Vacuum	Vacuum	Vacuum	Vacuum	
1/16/2014	9:00	Y	3.70	3.75	0.25	3.25	
2/16/2014	14:00	Y	3.50	3.25	0.20	3.00	
3/17/2014	10:30	Y	3.50	3.25	0.25	3.25	
4/17/2014	13:30	Y	3.50	3.30	0.25	3.00	
5/22/2014	8:30	Y	3.50	3.30	0.25	3.00	
6/16/2014	15:00	Y	3.50	3.25	0.25	3.00	
7/23/2014	16:30	Y	3.50	3.25	0.25	3.00	
8/18/2014	16:45	Y	3.50	3.16	0.25	2.80	
9/29/2014	14:05	Y	3.00	2.90	0.25	2.40	
10/31/2014	11:40	Y	3.38	3.13	0.13	2.90	
11/20/2014	16:30	Y	3.25	3.00	0.13	2.50	
12/17/2014	14:30	Y	3.25	3.00	0.13	2.75	
1/13/2015	10:45	Y	2.75	2.50	0.20	2.38	
2/25/2015	14:05	Y	3.28	3.02	0.18	2.76	
3/19/2015	15:10	Y	3.25	3.00	0.20	3.00	
4/20/2015	15:00	Y	3.25	3.00	0.20	2.75	
5/29/2015	14:00	Y	3.25	3.00	0.20	3.00	
6/26/2015	9:34	Y	3.23	3.38	0.21	3.00	
7/31/2015	8:07	Y	3.25	3.30	0.16	2.88	
8/27/2015	8:30	Y	3.18	3.25	0.18	2.92	
9/24/2015	11:10	Y	3.38	3.19	0.13	3.13	
10/8/2015	8:30	Y	3.25	3.05	0.22	2.80	
11/5/2015	8:30	Y	4.00	3.00	0.10	3.00	
12/17/2015	9:00	Y	3.38	3.25	0.11	3.00	