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Subject:
2014 Annual Groundwater Monitoring Report, Site 23 (PICA-065)
2014 Annual Monitoring Report, Area E (PICA-077) Groundwater and Surface Water
2014 Annual Monitoring Report, Area B (PICA-205) Groundwater
Picatinny Arsenal, New Jersey
Contract W91ZLK-05-D-0015

ENVIRONMENT

Date:
3 October 2014

Contact:
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Our ref:
GP06PICA.LM14

Dear Mr. Meyer:

Electronic copies of the 2013 annual monitoring reports for PICA-065, -077, and -205 have been placed on the “Picatinny Documents” file transfer protocol (FTP) site for your review.

These documents have been prepared with a white cover and are not designated as a ‘draft’ version. Upon the Army’s approval of these documents, they will be submitted to the regulators (per the final distribution list) and considered approved, unless specific concerns are brought to our attention.

If you have any questions or concerns with this submittal, please do not hesitate to contact me.

Sincerely,

ARCADIS U.S., Inc.

Bob White
Phase Manager

Thomas Crone
Project Manager

Copies:

Ted Gabel (Picatinny)	1 hard copy// 1 electronic copy (via FTP)
Nancy Flaherty (USACE)	2 hard copies/1 electronic copy (via FTP)
Mary Ellen Maly (USAEC)	1 hard copy/1 electronic copy (via CD)

2014 Annual Monitoring Report

Area E (PICA-077) Groundwater and Surface Water

U.S. Army Garrison Picatinny Arsenal, New Jersey

October 2014

2014 Annual Monitoring Report

Area E (PICA-077) Groundwater and Surface Water

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Prepared for:
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List of Acronyms and Abbreviations

1, 1-DCE	1,1-dichloroethene
ARCADIS	ARCADIS U.S., Inc.
cis-1, 2-DCE	cis-1,2-dichloroethene
COC	contaminants of concern
DO	dissolved oxygen
ft	feet
MNA	monitored natural attenuation
msl	mean sea level
NJDEP	New Jersey Department of Environmental Protection
NJGWQS	New Jersey Ground Water Quality Standards
ORP	Oxidation Reduction Potential
PCE	Tetrachloroethene
PDB	passive diffusion bag
PICA	Picatinny Arsenal Site
RD	Remedial Design
ROD	Record of Decision
SWQC	Surface Water Quality Criteria
TCE	Trichloroethene
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound
µg/L	micrograms per liter

1. Introduction

ARCADIS U.S., Inc. (ARCADIS) has been retained by the United States Army Environmental Command to perform Installation Restoration Program activities at Picatinny Arsenal, located in Morris County, New Jersey. This work is being conducted under a Performance Based Contract that encompasses 47 Picatinny Arsenal (PICA) sites. The full scope of services for this contract is defined in the Contract W91ZLK-05-D-0015.

The scope of remedial action for Area (PICA-077) includes Monitoring Natural Attenuation (MNA) in conjunction with Land Use Controls. The MNA program has been designed to evaluate long-term behavior of the plume; verify that exposure to contaminants and their breakdown products do not pose additional risks, and assess if it is necessary to implement any contingency actions.

This Annual Monitoring Report discusses the actions taken in implementation of the MNA groundwater remedy at Area E (PICA-077). **Figure 1** depicts the location of PICA-077. Contaminants of concern (COCs) for this Site include the following: tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichloroethene (1,1-DCE), and vinyl chloride (VC). The following activities are covered in this report:

- Annual groundwater and surface water sampling; and
- Collection of additional groundwater samples as per the planned biennial groundwater sampling.

The monitoring schedule for Area E is shown in **Table 1**.

2. Sampling Activities

This section discusses the site activities conducted during the 2014 calendar year.

2.1 Groundwater Elevation Measurements

Prior to groundwater sampling activities, water levels and well depths in the MNA network were gauged. The MNA network is displayed in **Figure 1**. In addition, monitoring wells were inspected to ensure continued performance. **Appendix A** includes all field forms for 2014. Well construction specifications and historical water level data for the approved monitoring well network (10 wells) are provided in **Table 2**.

2.2 Compliance Monitoring

Groundwater and surface water monitoring activities were conducted in accordance with the Final Remedial Design (RD) Area E & Site 22 U.S. Army Garrison Picatinny Arsenal, New Jersey (ARCADIS, 2008), Picatinny Arsenal Facility-Wide Health and Safety Plan (ARCADIS, 2006a), Picatinny Arsenal Facility-Wide Field Quality Assurance Project Plan (ARCADIS, 2006b), and the Picatinny Arsenal Facility-Wide Field Sampling Plan (ARCADIS, 2007a).

In addition to the documents listed above, groundwater and surface water monitoring were conducted and evaluated in accordance with the following New Jersey Department of Environmental Protection (NJDEP) and United States Environmental Protection Agency (USEPA) guidance documents: Field Sampling Procedures Manual (NJDEP, 2005); Guidance for Data Quality Assessment, Practical Methods for Data Analysis (USEPA, 2000); and Data Quality Assessment: Statistical Methods for Practitioners (USEPA, 2006).

An annual groundwater sampling event was completed in July 2014 in accordance with the Area E Final RD (ARCADIS, 2008) and as amended by the Final 2012 Annual Monitoring Report (ARCADIS, 2013). The annual event included sampling 10 monitoring wells in the MNA network. Groundwater samples were collected using passive diffusion bags (PDBs) and were analyzed for volatile organic compounds (VOCs). Field parameters, including pH, conductivity, temperature, dissolved oxygen (DO), and oxidation-reduction potential (ORP), were collected via a down-well probe following retrieval of each PDB. Surface water samples were also collected during the third quarter 2014.

2.3 Data Validation and Usability

All data collected were validated in accordance with the Final Quality Assurance Project Plan (ARCADIS 2007b). The validation criteria for long-term monitoring data include a review of the laboratory report narrative for noted deficiencies and the potential impact to data usability. Therefore, a review of chain-of-custodies, sample preservation, and sample receipt logs and electronic data validation of select quality control parameters were performed for all data packages using the Data Qualification Module. No major deficiencies were identified during the data validation; therefore, no additional review was performed. A copy of the Data Qualification Module checklist is included within **Appendix B**.

3. Results

This section presents the results of the sampling activities and evaluates the remedy performance.

3.1 Groundwater Elevations

Groundwater elevations ranged from a maximum of 691.10 feet (ft) above mean sea level (msl) at E-WG3-2 to a minimum elevation 683.38 ft msl at E-82-1 in July 2014. Historical groundwater elevation data indicate that groundwater flows generally toward the southeast under a horizontal hydraulic gradient of less than 0.01 feet per foot. A groundwater elevation contour map based on the July 2014 gauging event is presented in **Figure 2**. The flow direction indicated in the 2014 data is consistent with that previously observed at the Site.

3.2 Analytical Results

Groundwater samples were analyzed for VOCs. The five COCs for this Site include the following: PCE, TCE, cis-1,2-DCE, 1,1-DCE, and VC. **Table 3** presents the summary of all analyzed VOCs from the first quarter 2007 through the third quarter 2014 sampling events. Complete laboratory reports are included in **Appendix B**.

Based on a review of analytical data for groundwater samples collected during 2014, the following is a summary of the results for the COCs:

- Five wells (E-82-1,E-95-3, E-MW-12L, E-WG11-1, and E-WG3-2) had concentrations of PCE that exceeded the New Jersey Ground Water Quality Standard (NJGWQS) of 1 microgram per liter (µg/L) during the 2014 reporting period. A new maximum concentration of PCE was observed in well E-95-3 (94.6 µg/L) in July 2014. Well E-95-3 typically has the highest concentrations of PCE; however, the July 2014 result exceeded the historical maximum concentration observed at this location in August 2008. (73.6 µg/L). PCE was not detected in downgradient monitoring wells E-MW-02 or E-80-3. A PCE groundwater concentration map based on the 2014 groundwater sampling event is presented as **Figure 3**.

- Seven wells (E-82-1, E-95-3, E-MW-01, E-MW-12H, E-MW-12L, E-WG11-1, and E-WG3-2) had concentrations of TCE that exceeded the NJGWQS of 1 µg/L during the 2014 reporting period. The maximum reported concentration was 17.2 µg/L in monitoring well E-MW-12L. Monitoring wells downgradient of E-82-1 did

not report results above the sample detection limit for TCE. A TCE groundwater concentration map based on the 2014 groundwater sampling event is presented as **Figure 4**.

- No wells had concentrations of cis-1,2-DCE that exceeded the NJGWQS of 70 µg/L during 2014.

- Four wells (E-80-3, E-82-1, E-WG11-1, and E-WG3-2) had concentrations of 1,1-DCE that exceeded the NJGWQS of 2 µg/L during the 2014 reporting period. The maximum concentration reported from wells within the plume center was 13.7 µg/L within E-82-1.

- Two wells (E-70-4 and E-WG3-2) had concentrations of VC that exceeded the NJGWQS of 1 µg/L during the 2014 reporting period. The maximum concentration reported was 4.57 µg/L from E-70-4 (July 2014).

Table 4 summarizes the 2014 surface water sampling results. As indicated in the table and shown on **Figure 4**, four of the five COCs were below the New Jersey Surface Water Quality Criteria (SWQC) in the July 2014 surface water samples. VC was detected at concentrations exceeding the SWQC of 0.082 µg/L in all three surface water samples taken in 2014. The maximum concentration (0.335 µg/L) was detected in D-SW-5, located upstream.

3.3 Evaluation of Data Trends

The following data trend analysis is based on results of analytical laboratory testing and compliance monitoring from the third quarter 2003 or third quarter 2007 through the fourth quarter 2014. The data trend plots for the monitoring well network are presented in **Appendix C**. It should be noted that non-detections are reported in the graphical trend plots as zero.

3.3.1.1 Upgradient Site Boundary

Concentrations of TCE remained stable and slightly exceeded the NJGWQS of 1 µg/L in Upgradient Site Boundary monitoring well E-MW-01. All other COCs remained stable with concentrations below the laboratory reporting limit.

3.3.1.2 Plume Center/Fringe Monitoring Wells

Well E-95-3 is close to the former source areas for the Area E plume (surface impoundment units closed under the Resource Conservation and Recovery Act). PCE

was detected above the NJGWQS of 1 µg/L in July 2014 at a concentration of 94.6 µg/L. It should be noted that concentrations of PCE at this location have historically fluctuated and were generally declining from September 2010 through September 2013. In addition, there has not been a corresponding increase of PCE in wells immediately down gradient of E-95-3 (i.e., monitoring wells E-WG11-1 and E-12-L, discussed in the last paragraph of this section). Sample collection anticipated during 2015 will confirm if the observed 2014 concentration of PCE in E-95-3 is anomalous. The next (2015) sampling event is the comprehensive biennial event which includes an expanded set of wells within the LTM regimen and will therefore assist in the further evaluation of PCE trends at E-95-3 and at surrounding wells.

The RD identified monitoring wells E-12-H and WG3-2 as locations of the plume that were identified as historically having elevated concentrations (i.e., greater than 30.0 µg/L) of TCE. The TCE concentration in E-12-H has exhibited a sustained overall decline of TCE with concentrations of TCE typically below 10 µg/L since August 2010. In well E-WG3-2, the concentration of TCE is generally lower since 2009. There has been a sustained increase of cis-1,2-DCE concurrent to the decline of PCE/TCE in E-WG3-2, indicating biodegradation is naturally occurring.

PCE concentrations within E-WG11-1 and E-12-L, both of which are down gradient of the former source area, have also exhibited a decline since the start of MNA sampling. The concentration of PCE within E-WG11-1 has declined from a historical maximum of 39.9 µg/L (September 2007) to 22.9 µg/L (July 2014). The concentration of PCE within E-12-L has declined from a historical maximum of 7.26 µg/L (September 2003) to 3.0 µg/L (July 2014).

3.3.1.3 Downgradient Site Boundary and Adjacent to Green Pond Brook

Data for downgradient monitoring well E-80-3 show low-level, stable COC concentrations. Only 1,1-DCE was detected above NJGWQS in E-80-3 in July 2014, but the concentration remained below 10 µg/L.

3.3.1.4 Green Pond Brook

Analytical data collected for surface water samples indicate that COC concentrations are generally non-detect or below the New Jersey SWQC. There are occasional low-level detections of cis-1,2-DCE; however all concentrations were below the New Jersey SWQC. VC was detected at low level concentrations, above the New Jersey SWQC in all three samples, however, the highest concentration was detected upstream of the site. No other COCs were detected during the July 2014 sampling event from any of the three sample locations.

4. Remedy Performance and Future Actions

In 2007, the Record of Decision (ROD) stated the remedial timeframe to achieve groundwater standards at Area E is 45 years. The 2013 Annual Report indicated that based on the decline of TCE concentrations at E-12-L it is estimated TCE will reach groundwater standards in approximately 38 years. However, the 2014 results at E-12-L and at E-95-3 indicate that additional data are required to refine a remedial duration at these locations. There is no evidence that the plume is expanding, or that significant impacts to surface water are occurring. It is noted that the remedy remains protective, continues to meet all the Remedial Action Objectives, and overall the selected remedy (MNA) is effective.

Compliance monitoring will continue at the Site under the schedule presented in **Table 1**. The next comprehensive biennial sampling event is scheduled for 2015. Future monitoring events include sampling and analysis of groundwater and surface water for VOCs.

5. References

ARCADIS. 2006a. Picatinny Arsenal Facility-Wide Health and Safety Plan. September.

ARCADIS. 2006b. Picatinny Arsenal Facility-Wide Field Quality Assurance Project Plan. October.

ARCADIS. 2007a. Picatinny Arsenal Facility-Wide Field Sampling Plan. May.

ARCADIS. 2007b. Final Quality Assurance Project Plan. August.

ARCADIS. 2008. Final Remedial Design, Area E Groundwater and Site 22. June.

ARCADIS. 2013. Final 2012 Annual Monitoring Report Area E (PICA-077) Groundwater. May.

New Jersey Department of Environmental Protection (NJDEP). 2005. Field Sampling Procedures Manual. August.

United States Environmental Protection Agency (USEPA). 2000. Guidance for Data Quality Assessment, Practical Methods for Data Analysis. EPA QA/G-9, QA00 Update. Office of Environmental Information. Washington, DC.

USEPA. 2006. Data Quality Assessment: Statistical Methods for Practitioners. EPA QA/G-9S. Office of Environmental Information. Washington, DC.

Tables

Table 1
Monitoring Program Schedule (Through 2016)
Area E (PICA-077) Groundwater
Picatinny Aresenal, New Jersey

						Calendar Yr	2007		2008				2009				2010				2011				2012			
						Operation Yr	First Year of Operation				Second Year of Operation				Third Year of Operation				Fourth Year of Operation		Fourth Continued		Fifth Year of Operation		Sixth Year of Operation			
							Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Site Name	Category	Media	Purpose	Schedule	Sample Locations	Sampling Method	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
77 Area E	MNA VOC Groundwater Sampling	Groundwater	Evaluate MNA for groundwater remedy across Area E	Yr: 1-2 quarterly Yr 3-5: semi-annually Yr 6-duration annually	E-80-3, E-82-1 E-95-3. E-95-5[1] E-MW-12H, E-MW-12L E-70-4, E-3WG-2 E-11WG-1, E-1[2] E-2, E-12A[1]	Passive Diffusion Bag	Completed	Completed	Completed	Complete	Complete	Complete	Complete	Complete	Complete		Completed		Completed		Completed		Completed - Compr. Biennial VOC event		Completed		Completed	
	Biennial	Groundwater	Comprehensive, include these locations with MNA VOC	Biennial	E-18-1, E-80-1, E-80-2 E-80-3, E-82-1, E-82-2 E-82-3, E-95-3, E-MW-11 E-MW-12D, E-MW-12H, E-MW-12K E-MW-12L, E-70-2, E-70-3 E-70-4, E-3WG-1, E-3WG-2 E-3WG-3, E-11WG-1, E-11WG-1 E-11WG-2, E-11WG-3,	Passive Diffusion Bag	Completed								Complete								Completed					
	Surface Water Sampling	Surface Water	SW sampling as part of the GW MNA remedy	Yr: 1-2 quarterly Yr 3-5: semi-annually Yr 6-duration annually	D-SW-5 E-38SW-1 E-38SW-4	Grab Sample	Completed	Completed	Completed	Complete	Complete	Complete	Complete	Complete	Complete		Completed		Completed		Completed		Completed.		Completed		Completed	

						Calendar Yr	2013				2014				2015				2016			
						Operation Yr	Sixth Year of Operation Continued		Seventh Year of Operation				Eighth Year of Operation				Ninth Year of Operation				Tenth Year of Operation	
							Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Site Name	Category	Media	Purpose	Schedule	Sample Locations	Sampling Method	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
77 Area E	MNA VOC Groundwater Sampling	Groundwater	Evaluate MNA for groundwater remedy across Area E	Yr: 1-2 quarterly Yr 3-5: semi-annually Yr 6-duration annually	E-80-3, E-82-1 E-95-3. E-95-5[1] E-MW-12H, E-MW-12L E-70-4, E-3WG-2 E-11WG-1, E-1[2] E-2, E-12A[1]	Passive Diffusion Bag			Completed - Compr. Biennial VOC event				Completed: July 2014				Planned				Planned	
	Biennial	Groundwater	Comprehensive, include these locations with MNA VOC	Biennial	E-18-1[3], E-80-1[3], E-80-2[3] E-80-3, E-82-1, E-82-2 E-82-3[3], E-95-3, E-MW-11 E-MW-12D, E-MW-12H, E-MW-12K[3] E-MW-12L, E-70-2, E-70-3 E-70-4, E-3WG-1, E-3WG-2 E-3WG-3, E-11WG-1, E-11WG-1 E-11WG-2, E-11WG-3[3]	Passive Diffusion Bag			Completed								Planned					
	Surface Water Sampling	Surface Water	SW sampling as part of the GW MNA remedy	Yr: 1-2 quarterly Yr 3-5: semi-annually Yr 6-duration annually	D-SW-5 E-38SW-1 E-38SW-4	Grab Sample			Completed				Completed: July 2014				Planned				Planned	

Notes:
[1]Temporarily added to the LTM program; these samples will not be collected after the third quarter 2012 sampling event.
[2]Monitoring well E-1 not sampled during 2012 due to inaccessibility
[3]Cessation of sampling proposed for the biennial wells in blue text prior to the September 2013 biennial sampling event
The Biennial comprehensive groundwater sampling includes sampling 24 wells (6 proposed for cessation of sampling) identified in the Record of Decision for VOCs via passive diffusion bags
MNA - Monitored Natural Attenuation
SW - Surface Water
VOC - Volatile Organic Carbons

Table 2
Well Specification and Groundwater Elevation Summary
Area E (PICA-077) Groundwater
Picatinny Arsenal, New Jersey

LOCATION	Well Material	Well Diameter (inches)	Measuring Point Elevation (msl) (TOC)	Total Depth (ft bmp)	Screen Interval (msl)	9/10/2007		12/10/2007		1/22/2008		5/6/2008		8/5/2008		11/5/2008		3/10-11/2009		6/4/2009		8/31/2009		3/11/2010		8/25/2010		3/8/2011		8/12/2011		3/6/2012		9/5/2012		8/14/2013		7/9/2014	
						DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)	DTW (ft bmp)	WE (msl)
80-3	PVC	2	692.97	43	655.17 - 650.17	7.11	685.86	6.31	686.66	6.23	686.74	6.02	686.95	6.63	686.34	5.31	687.66	5.62	687.35	5.89	687.08	5.74	687.23	5.48	687.49	8.72	684.25	4.27	688.70	7.31	685.66	6.84	686.13	6.91	686.06	5.95	687.02	7.37	685.60
82-1	PVC	2	691.93	18	679.13 - 674.13	4.72	687.21	3.67	688.26	3.61	688.32	3.46	688.47	4.98	686.95	3.24	688.69	3.51	688.42	3.55	688.38	3.70	688.23	2.84	689.09	4.81	687.12	2.43	689.50	4.95	686.98	4.17	687.76	4.96	686.97	3.62	688.31	8.55	683.38
95-3	PVC	2	696.35	21	685.85 - 675.85	6.12	690.23	8.59	687.76	8.59	687.76	5.47	690.88	6.94	689.41	5.55	690.80	5.62	690.73	5.61	690.74	5.63	690.72	4.82	691.53	7.25	689.10	4.24	692.11	6.21	690.14	5.72	690.63	6.71	689.64	NM	NA	6.07	690.28
95-5[1]	PVC	2	NA	21	16-21[1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.31	NA	--	--	4.61	NA	5.57	NA	NM	NA	NM	NA
MW-12A[1]	PVC	4	NA	18	11-18[1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.41	NA	--	--	5.12	NA	6.05	NA	NM	NA	NM	NA
MW-12H	PVC	2	695.51	14	686.51 - 681.51	5.71	689.80	5.12	690.39	5.18	690.33	5.21	690.30	6.37	689.14	5.32	690.19	4.19	691.32	4.93	690.58	5.29	690.22	4.74	690.77	5.83	689.68	4.81	690.70	5.86	689.65	5.37	690.14	6.00	689.51	4.91	690.60	5.59	689.92
MW-12L	PVC	2	695.51	24	676.91 - 671.91	5.96	689.55	5.31	690.20	5.26	690.25	5.38	690.13	6.63	688.88	5.38	690.13	5.34	690.17	5.26	690.25	5.44	690.07	4.73	690.78	5.91	689.60	4.51	691.00	6.65	688.86	5.16	690.35	5.92	689.59	4.91	690.60	5.65	689.86
70-4	PVC	2	694.77	27	673.47 - 668.47	5.92	688.85	4.96	689.81	5.06	689.71	5.16	689.61	6.31	688.46	5.10	689.67	5.05	689.72	4.92	689.85	5.23	689.54	4.84	689.93	5.64	689.13	4.75	690.02	5.76	689.01	5.14	689.63	5.90	688.87	4.98	689.79	5.97	688.80
WG3-2	PVC	2	695.28	26	674.98 -669.98	4.15	691.13	3.30	691.98	3.38	691.90	3.48	691.80	4.67	690.61	3.41	691.87	3.37	691.91	3.29	691.99	3.51	691.77	3.13	692.15	4.04	691.24	2.95	692.33	4.00	691.28	3.42	691.86	4.18	691.10	3.48	691.80	4.18	691.10
WG11-1	PVC	2	693.69	26	673.59 - 668.59	4.39	689.30	3.65	690.04	3.57	690.12	3.72	689.97	5.08	688.61	3.68	690.01	3.69	690.00	3.61	690.08	3.81	689.88	3.27	690.42	4.84	688.85	3.03	690.66	4.41	689.28	3.83	689.86	4.73	688.96	3.56	690.13	4.42	689.27
E-MW-01	PVC	2	696.85	20	686.85 - 676.85	5.85	691.00	4.71	692.14	3.39	693.46	4.70	692.15	7.08	689.77	5.63	691.22	5.28	691.57	4.90	691.95	5.45	691.40	3.40	693.45	7.22	689.63	2.98[1]	693.87	8.540	688.31	NM	NM	NM	NM	3.57	693.28	6.24	690.61
E-MW-02	PVC	2	692.40	20	682.40 - 672.40	7.30	685.10	6.54	685.86	6.51	685.89	6.20	686.20	6.75	685.65	5.55	686.85	5.85	686.55	6.05	686.35	5.93	686.47	5.77	686.63	6.87	685.53	4.41	687.99	7.54	684.86	7.11	685.29	7.07	685.33	6.22	686.18	7.57	684.83

[1]Monitoring Wells 95-5 and MW-12A were removed from the long term monitoring regimin in accordance with the approved 2012 Annual Monitoring Report
-- sample not collected
msl - mean sea level
ft bmp - feet below measuring point
TOC - top of casing
DTW - depth to water
WE - water elevation
NA - data not available
[1]Screen interval ft below top of casing

Table 3
Historical Groundwater Sampling Results
Area E (PICA-077) Groundwater
Picatinny Arsenal, New Jersey

			Location ID	E-12-A	E-12-A	E-12-A	E-12-D	E-12-D	E-12-D	E-12-D	E-12-H	E-12-H	E-12-H	E-12-H	E-12-H	E-12-H	E-12-H	E-12-H	E-12-H	E-12-H	E-12-H	E-12-H	E-12-H	E-12-H	E-12-H	E-12-H	E-12-K	E-12-K	E-12-K	E-12-L
			Depth Interval	11 - 18	11 - 18	11 - 18	25 - 30	25 - 30	25 - 30	25 - 30	9 - 14	9 - 14	9 - 14	9 - 14	9 - 14	9 - 14	9 - 14	9 - 14	9 - 14	9 - 14	9 - 14	9 - 14	9 - 14	9 - 14	9 - 14	9 - 14	33.1 - 38.1	33.1 - 38.1	33.1 - 38.1	19.75 - 24.75
			Sample Date	3/21/2011	3/20/2012	9/18/2012	9/13/2007	8/31/2009	8/26/2011	8/14/2013	9/12/2007	12/27/2007	2/5/2008	5/20/2008	8/26/2008	11/19/2008	3/24/2009	6/18/2009	8/31/2009	3/29/2010	9/8/2010	3/21/2011	8/26/2011	3/20/2012	9/18/2012	8/14/2013	9/13/2007	8/31/2009	8/26/2011	9/13/2007
CAS No	Chemical Name	Unit	Area E ROD Comparison Criteria[1]																											
630-20-6	1,1,1,2-Tetrachloroethane	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
71-55-6	1,1,1-Trichloroethane	ug/L	---	**1.69**	**1.73**	**1.65**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	**1.05**
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	---	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
79-00-5	1,1,2-Trichloroethane	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
75-34-3	1,1-Dichloroethane	ug/L	---	**1.11**	**2.34**	**3.34**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
75-35-4	1,1-Dichloroethene	ug/L	2	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
563-58-6	1,1-Dichloropropene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
87-61-6	1,2,3-Trichlorobenzene	ug/L	---	< 1 U	< 0.15 U	< 0.15 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U	< 0.15 U	< 1 U	< 1 U	< 1 U	< 1 U
96-18-4	1,2,3-Trichloropropane	ug/L	---	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	---	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
95-63-6	1,2,4-Trimethylbenzene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
106-93-4	1,2-Dibromoethane	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
95-50-1	1,2-Dichlorobenzene	ug/L	---	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	**0.308 J**
107-06-2	1,2-Dichloroethane	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
78-87-5	1,2-Dichloropropane	ug/L	---	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
108-67-8	1,3,5-Trimethylbenzene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
541-73-1	1,3-Dichlorobenzene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
142-28-9	1,3-Dichloropropane	ug/L	---	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
106-46-7	1,4-Dichlorobenzene	ug/L	---	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
594-20-7	2,2-dichloropropane	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
78-93-3	2-Butanone	ug/L	---	< 10 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**3.54 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U
110-75-8	2-Chloroethyl vinyl ether	ug/L	---	< 10 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U
95-49-8	2-Chlorotoluene	ug/L	---	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
591-78-6	2-Hexanone	ug/L	---	< 10 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U
106-43-4	4-Chlorotoluene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
108-10-1	4-Methyl-2-pentanone (MIBK)	ug/L	---	< 10 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U
67-64-1	Acetone	ug/L	---	< 10 UB	**50 UB**	**14.2**	< 10 U	< 10 U	**5.77 UB**	**4.63 J**	< 10 U	< 10 U	< 10 U	**2.99 J**	**4.4 J**	**22.1**	< 10 U	**5.66 UB**	< 10 U	**3.5 UB**	**4.32 J**	< 10 UB	**6.19 UB**	**50.2 UB**	**15.6**	**6.97 J**	< 10 U	< 10 U	**7.17 UB**	< 10 U
71-43-2	Benzene	ug/L	---	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
75-27-4	Bromodichloromethane	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
75-25-2	Bromoform	ug/L	---	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
74-83-9	Bromomethane	ug/L	---	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
104-51-8	Butyl benzene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
75-15-0	Carbon disulfide	ug/L	---	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
56-23-5	Carbon tetrachloride	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
108-90-7	Chlorobenzene	ug/L	---	< 1 U	< 0.125 U	< 0.125 U	**0.154 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	**0.552 J**
74-97-5	Chlorobromomethane	ug/L	---	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
75-00-3	Chloroethane	ug/L	---	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
67-66-3	Chloroform	ug/L	---	**0.32 J**	**0.369 J**	**0.626 J**	**0.458 J**	**0.372 J**	**0.355 UB**	**0.248 J**	**0.138 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.231 UB**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.207 J**	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	**0.564 J**
74-87-3	Chloromethane	ug/L	---	< 1 U	< 0.5 U	< 0.5 U	**0.792 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.628 B**	< 1 U	**0.264 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	**1.23**	< 1 U	< 1 U	< 1 U
156-59-2	cis-1,2-Dichloroethene	ug/L	70	< 1 U	< 0.25 U	< 0.25 U	**0.865 J**	**0.659 J**	**0.69 J**	**0.376 J**	**1.77**	**0.564 J**	**1.4**	**1.8**	**1.21**	**1.35**	**1.66**	**1.57**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**2.3**	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	**0.699 J**
10061-01-5	cis-1,3-Dichloropropene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
99-87-6	Cymene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
124-48-1	Dibromochloromethane	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
96-12-8	Dibromochloropropane	ug/L	---	< 5 U	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U
75-71-8	Dichlorodifluoromethane	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
100-41-4	Ethyl benzene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
87-68-3	Hexachlorobutadiene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
98-82-8	Isopropylbenzene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
179601-23-1	m-,p-Xylene	ug/L	---	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
74-95-3	Methylene bromide	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
75-09-2	Methylene chloride	ug/L	---	< 5 U	< 0.25 U	< 0.25 U	< 5 U	**0.287 UB**	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**0.26 UB**	**0.936 UB**	< 5 U	< 5 U	< 5 U	< 0.25 U	< 0.25 U	< 0.25 U	< 5 U	**0.298 UB**	< 5 U	< 5 U
108-86-1	Monobromobenzene	ug/L	---	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
91-20-3	Naphthalene	ug/L	---	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
103-65-1	n-Propylbenzene	ug/L	---	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
95-47-6	o-Xylene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
135-98-8	sec-Butylbenzene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
100-42-5	Styrene	ug/L	---	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
98-06-6	tert-Butylbenzene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
127-18-4	Tetrachloroethene	ug/L	1	**1.76**	**1.52**	**0.619 J**	**1.94**	**0.376 J**	**0.284 J**	< 1 U	**0.367 J**	**0.408 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	**7.02**
108-88-3	Toluene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**1.08**	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
156-60-5	trans-1,2-Dichloroethene	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	---	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
79-01-6	Trichloroethene	ug/L	1	**8.12**	**6.89**	**6.4**	**22.4**	**13.7**	**12.9**	**12.8**	**34.6**	**11.4**	**32.9**	**36.5**	**15.7**	**13.4**	**23.5**	**17.4**	< 1 U	**2.29**	< 1 U	**1.73**	< 1 U	**18.3**	**0.409 J**	**0.724 J**	< 1 U	< 1 U	< 1 U	**20.4**
75-69-4	Trichlorofluoromethane	ug/L	---	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
108-05-4	Vinyl acetate	ug/L	---	< 10 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U
75-01-4	Vinyl chloride	ug/L	1	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.31 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.369 J**	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U

Notes:
All detections are boldfaced
Values exceeding the chemical-specific criteria are shaded gray.
ug/L - micrograms per liter
B - Analyte found in associated blank
D - Compounds reported at a secondary dilution factor
J - Estimated concentration
R - Rejected
U - Non-detect at the specified reporting limit

[1] Comparison criteria established in the Area E Record of Decision (ROD) (2008) for the five contaminants of concern (shaded).

[2] Based on sample times and results for samples E-MW-02 and E-95-3 collected on 8/31/2009, it is likely these were mislabeled, and results should be swapped.

Table 3
Historical Groundwater Sampling Results
Area E (PICA-077) Groundwater
Picatinny Arsenal, New Jersey

			Location ID	E-12-L	E-12-L	E-12-L	E-12-L	E-12-L	E-12-L	E-12-L	E-12-L	E-12-L	E-12-L	E-12-L	E-12-L	E-12-L	E-12-L	E-12-L	E-12-L	E-18-1	E-18-1	E-18-1	E-70-2	E-70-2	E-70-2	E-70-2	E-70-3	E-70-3	E-70-3	E-70-3	E-70-3
			Depth Interval	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	19.75 - 24.75	10 - 20	10 - 20	10 - 20	34.6 - 39.6	34.6 - 39.6	34.6 - 39.6	34.6-39.6	10 - 15	10 - 15	10 - 15	10 - 15	10 - 15
			Sample Date	12/27/2007	2/5/2008	5/20/2008	8/26/2008	11/19/2008	3/24/2009	6/18/2009	8/31/2009	3/29/2010	9/8/2010	8/26/2011	3/21/2011	3/20/2012	9/18/2012	8/14/2013	9/11/2007	8/31/2009	8/26/2011	9/11/2007	8/31/2009	8/26/2011	8/14/2013	9/11/2007	8/31/2009	8/26/2011	9/18/2012	8/14/2013
CAS No	Chemical Name	Unit	Area E ROD Comparison Criteria[1]																												
630-20-6	1,1,1,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
71-55-6	1,1,1-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.259 J**	**0.289 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**1.06**	< 1 U	< 0.25 U	< 0.25 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U
79-00-5	1,1,2-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
75-34-3	1,1-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	**4.82**	< 1 U	< 1 U	**5.5**	**1.09**	**3.14**	**12.2**	**1.84**
75-35-4	1,1-Dichloroethene	ug/L	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**4.76**	< 1 U
563-58-6	1,1-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
87-61-6	1,2,3-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U	< 0.15 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U
96-18-4	1,2,3-Trichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
106-93-4	1,2-Dibromoethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
95-50-1	1,2-Dichlorobenzene	ug/L	---	**0.182 J**	**0.181 J**	**0.149 J**	< 1 U	< 1 U	< 1 U	**0.136 J**	< 1 U	**0.177 J**	< 1 U	< 1 U	**0.16 J**	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
107-06-2	1,2-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
78-87-5	1,2-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U
108-67-8	1,3,5-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
541-73-1	1,3-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
142-28-9	1,3-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U
106-46-7	1,4-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
594-20-7	2,2-dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
78-93-3	2-Butanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	**3.71 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U
110-75-8	2-Chloroethyl vinyl ether	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U
95-49-8	2-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
591-78-6	2-Hexanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U
106-43-4	4-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
108-10-1	4-Methyl-2-pentanone (MIBK)	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U
67-64-1	Acetone	ug/L	---	< 10 U	**4.15 J**	**2.6 J**	**4.61 J**	**22.8**	**4.43 J**	**6.18 UB**	< 10 U	**3.01 UB**	< 10 U	**6.96 UB**	< 10 UB	**50.4 UB**	**14.6**	**4.51 J**	< 10 U	< 10 U	**6.76 UB**	< 10 U	< 10 U	**8.02 UB**	**4.20 J**	< 10 U	< 10 U	**6.93 UB**	**14.8**	**7.87**
71-43-2	Benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
75-27-4	Bromodichloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
75-25-2	Bromoform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
74-83-9	Bromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
104-51-8	Butyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
75-15-0	Carbon disulfide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
56-23-5	Carbon tetrachloride	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
108-90-7	Chlorobenzene	ug/L	---	**0.527 UB**	**0.395 UB**	**0.365 J**	**0.476 J**	**0.271 J**	**0.2 J**	**0.408 J**	**0.269 J**	**0.244 J**	< 1 U	**0.314 J**	**0.264 J**	< 0.125 U	< 0.125 U	**0.186 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
74-97-5	Chlorobromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U
75-00-3	Chloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
67-66-3	Chloroform	ug/L	---	**0.538 UB**	**0.452 J**	**0.46 J**	**0.467 J**	**0.484 J**	**0.363 J**	**0.389 UB**	**0.264 J**	**0.455 J**	**0.282 J**	**0.362 UB**	**0.369 J**	**0.361 J**	**0.265 J**	**0.517 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
74-87-3	Chloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	**0.549 B**	**0.393 J**	**0.473 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.299 J**	< 1 U	< 1 U	< 1 U	**0.345 J**	< 1 U	< 0.5 U	< 0.5 U
156-59-2	cis-1,2-Dichloroethene	ug/L	70	**0.82 J**	**0.691 J**	**0.593 J**	**0.674 J**	**0.697 J**	**0.685 J**	**0.723 J**	**0.555 J**	**0.668 J**	**0.545 J**	**0.452 J**	**0.666 J**	**0.5 J**	**0.29 J**	**0.362 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
10061-01-5	cis-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
99-87-6	Cymene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
124-48-1	Dibromochloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
96-12-8	Dibromochloropropane	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U
75-71-8	Dichlorodifluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
100-41-4	Ethyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
87-68-3	Hexachlorobutadiene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
98-82-8	Isopropylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
179601-23-1	m-,p-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
74-95-3	Methylene bromide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
75-09-2	Methylene chloride	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**0.995 UB**	< 5 U	< 5 U	< 5 U	< 0.25 U	< 0.25 U	< 0.25 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**0.322 UB**	< 5 U	< 0.25 U	< 0.25 U
108-86-1	Monobromobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
91-20-3	Naphthalene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U
103-65-1	n-Propylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
95-47-6	o-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
135-98-8	sec-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
100-42-5	Styrene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.142 J**	< 1 U	< 1 U	< 1 U	**0.155 J**	< 0.125 U	< 0.125 U
98-06-6	tert-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
127-18-4	Tetrachloroethene	ug/L	1	**4.57**	**4.14**	**3.2**	**2.23**	**1.39**	**3.27**	**2.86**	**1.83**	**3.91**	**0.586 J**	**1.95**	**3.33**	**2.36**	< 0.25 U	**0.555 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
108-88-3	Toluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.446 J**	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.39 J**	**0.88 J**	< 1 U	< 1 U	< 1 U	**0.725 J**	< 0.25 U	< 0.25 U
156-60-5	trans-1,2-Dichloroethene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
79-01-6	Trichloroethene	ug/L	1	**19.2**	**19.6**	**19.2**	**16.5**	**14.4**	**17.2**	**18.2**	**15**	**18.3**	**10.5**	**16.3**	**18.1**	**16.9**	**7.27**	**14.3**	< 1 U	**0.299 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
75-69-4	Trichlorofluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
108-05-4	Vinyl acetate	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U
75-01-4	Vinyl chloride	ug/L	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	**2.26**	< 1 U	< 1U	**1.34**	**0.378 J**	**2.91**	< 0.25 U	**1.92**

Notes:
All detections are boldfaced
Values exceeding the chemical-specific criteria are shaded gra
ug/L - micrograms per liter
B - Analyte found in associated blank
D - Compounds reported at a secondary dilution factor
J - Estimated concentration
R - Rejected
U - Non-detect at the specified reporting limit

[1] Comparison criteria established in the Area E Record of Decision (ROD) (2008) for the five contaminants of concern (shaded).

[2] Based on sample times and results for samples E-MW-02 and E-95-3 collected on 8/31/2009, it is likely these were mislabeled, and results should be swapped.

Table 3
Historical Groundwater Sampling Results
Area E (PICA-077) Groundwater
Picatinny Arsenal, New Jersey

			Location ID	E-70-4	E-70-4	E-70-4	E-70-4	E-70-4	E-70-4	E-70-4	E-70-4	E-70-4	E-70-4	E-70-4	E-70-4	E-70-4	E-70-4	E-70-4	E-70-4	E-70-4	E-80-1	E-80-1	E-80-1	E-80-2	E-80-2	E-80-3	E-80-3	E-80-3	E-80-3	E-80-3	E-80-3
			Depth Interval	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	21.3 - 26.3	25 - 30	25 - 30	25 - 30	9.4 - 14.4	9.4 - 14.4	40 - 50	40 - 50	40 - 50	40 - 50	40 - 50	40 - 50
			Sample Date	9/11/2007	12/27/2007	2/5/2008	5/20/2008	8/26/2008	11/19/2008	3/24/2009	6/18/2009	8/31/2009	3/29/2010	9/8/2010	3/21/2011	8/26/2011	3/20/2012	9/18/2012	8/14/2013	7/9/2014	9/12/2007	8/31/2009	8/26/2011	9/12/2007	8/31/2009	9/12/2007	12/27/2007	2/5/2008	5/20/2008	8/26/2008	11/19/2008
CAS No	Chemical Name	Unit	Area E ROD Comparison Criteria[1]																												
630-20-6	1,1,1,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
71-55-6	1,1,1-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
79-00-5	1,1,2-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-34-3	1,1-Dichloroethane	ug/L	---	**9.92**	**9.07**	**8.18**	**8.51**	**7.8**	**7.01**	**3.98**	**6.59**	**3.02**	**7.23**	**5.58**	**6**	**3.62**	**5**	**4.94**	**4.09**	**6.4**	**1.31**	**0.948 J**	**1.02**	**0.746 J**	**0.318 J**	**21.9**	**19.7**	**18.3**	**18.8**	**20.2**	**20.4**
75-35-4	1,1-Dichloroethene	ug/L	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.69 J**	< 1 U	**0.735 J**	< 1 U	**0.642 J**	**0.77 J**	**0.736 J**	**1.7**	**2**	**1.08**	**1.63**	**0.565 J**	< 1 U	**8.46**	**6.18**	**5.75**	**5.81**	**7.47**	**7.09**
563-58-6	1,1-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
87-61-6	1,2,3-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
96-18-4	1,2,3-Trichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
95-63-6	1,2,4-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
106-93-4	1,2-Dibromoethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
95-50-1	1,2-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
107-06-2	1,2-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
78-87-5	1,2-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
108-67-8	1,3,5-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
541-73-1	1,3-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
142-28-9	1,3-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
106-46-7	1,4-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
594-20-7	2,2-dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
78-93-3	2-Butanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**5.64 J**	< 10 U	**2.7 UB**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
110-75-8	2-Chloroethyl vinyl ether	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
95-49-8	2-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
591-78-6	2-Hexanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
106-43-4	4-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
108-10-1	4-Methyl-2-pentanone (MIBK)	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
67-64-1	Acetone	ug/L	---	< 10 U	< 10 U	< 10 U	**3.55 J**	**2.93 J**	**20.3**	< 10 U	**5.64 UB**	< 10 U	**3.54 UB**	**3.33 J**	< 10 UB	**6.67 UB**	**49.7 UB**	**15**	**4.65 J**	**56.8**	< 10 U	**3.41 J**	**5.53 UB**	< 10 U	**3.18 J**	< 10 U	< 10 U	< 10 U	< 10 U	**2.65 J**	**19.1**
71-43-2	Benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-27-4	Bromodichloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-25-2	Bromoform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
74-83-9	Bromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**2.81 B**
104-51-8	Butyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-15-0	Carbon disulfide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
56-23-5	Carbon tetrachloride	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
108-90-7	Chlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
74-97-5	Chlorobromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-00-3	Chloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
67-66-3	Chloroform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.248 UB**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
74-87-3	Chloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.397 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.318 J**
156-59-2	cis-1,2-Dichloroethene	ug/L	70	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.29 J**	< 1 U	**0.47 J**	**0.297 J**	**0.693 J**	**0.716 J**	**1.35**	**2.65**	**0.266 J**	< 1 U	**0.632 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
10061-01-5	cis-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
99-87-6	Cymene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
124-48-1	Dibromochloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
96-12-8	Dibromochloropropane	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
75-71-8	Dichlorodifluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
100-41-4	Ethyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
87-68-3	Hexachlorobutadiene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
98-82-8	Isopropylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
179601-23-1	m-,p-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
74-95-3	Methylene bromide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-09-2	Methylene chloride	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**0.292 UB**	**1.04 UB**	< 5 U	< 5 U	< 5 U	< 0.25 U	< 0.25 U	< 0.25 U	0.427 UB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
108-86-1	Monobromobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
91-20-3	Naphthalene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
103-65-1	n-Propylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
95-47-6	o-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
135-98-8	sec-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
100-42-5	Styrene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
98-06-6	tert-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
127-18-4	Tetrachloroethene	ug/L	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
108-88-3	Toluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.378 J**	**0.98 J**	**0.607 J**	**0.266 J**	**1.14**	< 0.25 U	**0.254 J**	< 0.25 U	< 0.25 U	< 1 U	< 1 U	**0.339 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
156-60-5	trans-1,2-Dichloroethene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
79-01-6	Trichloroethene	ug/L	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-69-4	Trichlorofluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
108-05-4	Vinyl acetate	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
75-01-4	Vinyl chloride	ug/L	1	**3.17**	**3.39**	**3.65**	**3.55**	**3.28**	**2.68**	**1.09**	**3.72**	**0.872 J**	**3.78**	**3.03**	**3.96**	**2.43**	**0.596 J**	**4.61**	**4.51**	**4.57**	< 1 U	< 1 U	**0.411 J**	**0.872 J**	< 1 U	**0.371 J**	< 1 U	< 1 U	**0.465 J**	**0.502 J**	**0.568 J**

Notes:
All detections are boldfaced
Values exceeding the chemical-specific criteria are shaded gray
ug/L - micrograms per liter
B - Analyte found in associated blank
D - Compounds reported at a secondary dilution factor
J - Estimated concentration
R - Rejected
U - Non-detect at the specified reporting limit

[1] Comparison criteria established in the Area E Record of Decision (ROD) (2008) for the five contaminants of concern (shaded).

[2] Based on sample times and results for samples E-MW-02 and E-95-3 collected on 8/31/2009, it is likely these were mislabeled, and results should be swapped.

Table 3
Historical Groundwater Sampling Results
Area E (PICA-077) Groundwater
Picatinny Arsenal, New Jersey

			Location ID	E-80-3	E-80-3	E-80-3	E-80-3	E-80-3	E-80-3	E-80-3	E-80-3	E-80-3	E-80-3	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-1	E-82-2
			Depth Interval	40 - 50	40 - 50	40 - 50	40 - 50	40 - 50	40 - 50	40 - 50	40 - 50	40 - 50	40 - 50	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	12.8 - 17.8	22.9 - 27.9
			Sample Date	3/30/2009	6/18/2009	8/31/2009	3/30/2010	9/10/2010	3/21/2011	8/26/2011	3/20/2012	8/14/2013	7/9/2014	9/12/2007	12/27/2007	2/5/2008	5/20/2008	8/26/2008	11/19/2008	3/30/2009	6/18/2009	8/31/2009	3/30/2010	9/10/2010	3/21/2011	8/26/2011	3/20/2012	9/18/2012	9/18/2012	8/14/2013	7/10/2014	9/12/2007
CAS No	Chemical Name	Unit	Area E ROD Comparison Criteria[1]																														
630-20-6	1,1,1,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
71-55-6	1,1,1-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	**0.522 J**	**0.38 J**	**0.413 J**	**0.315 J**	**0.348 J**	**0.332 J**	< 1 U	**0.372 J**	**0.283 J**	**0.452 J**	< 1 U	**0.312 J**	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U
79-00-5	1,1,2-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	**0.524 J**	< 1 U	< 1 U	< 1 U	< 1 U	**0.252 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
75-34-3	1,1-Dichloroethane	ug/L	---	**17.4**	**19.2**	**1.49**	**17.7**	**13.5**	**14.2**	**14.6**	**13.2**	**9.23**	**12.2**	**8.95**	**5.21**	**3.35**	**3.03**	**4.47**	**4.78**	**3.15**	**2.85**	**3.08**	**1.49**	**1.21**	**2.43**	**1.69**	**1.38**	**2.16**	**1.13**	**1.13**	**2.14**	**13.1**
75-35-4	1,1-Dichloroethene	ug/L	2	**6.96**	**7.43**	< 1 U	**7.73**	**6.9**	**5.01**	**6**	**5.55**	**2.15**	**8.55**	**31.1**	**20.1**	**17.9**	**17.1**	**20.8**	**19.6**	**17.5**	**12.8**	**17.8**	**7.6**	**4.5**	**13.3**	**7.9**	**9.23**	**11.4**	**7.13**	**7.13**	**13.7**	**6.19**
563-58-6	1,1-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
87-61-6	1,2,3-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U	< 0.15 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 1 U
96-18-4	1,2,3-Trichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U
95-63-6	1,2,4-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
106-93-4	1,2-Dibromoethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
95-50-1	1,2-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U
107-06-2	1,2-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
78-87-5	1,2-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U
108-67-8	1,3,5-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
541-73-1	1,3-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
142-28-9	1,3-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U
106-46-7	1,4-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U
594-20-7	2,2-dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
78-93-3	2-Butanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U
110-75-8	2-Chloroethyl vinyl ether	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 10 U
95-49-8	2-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U
591-78-6	2-Hexanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U
106-43-4	4-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
108-10-1	4-Methyl-2-pentanone (MIBK)	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U
67-64-1	Acetone	ug/L	---	**3.92 J**	**4.51 UB**	**2.79 J**	**2.89 J**	**3.51 UB**	< 10 UB	**7.38 UB**	**49.7 UB**	**5.55 J**	**39 UB**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**18.8**	**3.39 J**	**5.29 UB**	**3.08 J**	**2.72 J**	< 10 U	< 10 UB	**6.68 UB**	**49 UB**	**13.9**	**5.11**	**5.11 J**	**50.1**	< 10 U
71-43-2	Benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U
75-27-4	Bromodichloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
75-25-2	Bromoform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U
74-83-9	Bromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**2.8 B**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U
104-51-8	Butyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
75-15-0	Carbon disulfide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U
56-23-5	Carbon tetrachloride	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
108-90-7	Chlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U
74-97-5	Chlorobromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U
75-00-3	Chloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.667 J**	**0.635 J**	< 1 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U
67-66-3	Chloroform	ug/L	---	< 1 U	**0.138 UB**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	**0.162 J**	**0.178 UB**	**0.129 J**	**0.129 J**	< 1 U	**0.149 J**	< 1 U	**0.365 UB**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U
74-87-3	Chloromethane	ug/L	---	**0.454 J**	< 1 U	**0.3 J**	< 1 U	**1.01 UB**	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.369 J**	< 1 U	< 1 U	**0.282 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U
156-59-2	cis-1,2-Dichloroethene	ug/L	70	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	**8.93**	**25.7**	**29.5**	**27.1**	**33.2**	**27.4**	**34.3**	**38.9**	**39.1**	**30.2**	**20.7**	**30.2**	**42.6**	**38.2**	**40.4**	**33.4**	**33.4**	**41**	< 1 U
10061-01-5	cis-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
99-87-6	Cymene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
124-48-1	Dibromochloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
96-12-8	Dibromochloropropane	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U
75-71-8	Dichlorodifluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
100-41-4	Ethyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
87-68-3	Hexachlorobutadiene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
98-82-8	Isopropylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
179601-23-1	m-,p-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U
74-95-3	Methylene bromide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
75-09-2	Methylene chloride	ug/L	---	**0.393 UB**	< 5 U	< 5 U	**0.724 J**	**0.289 UB**	< 5 U	< 5 U	< 0.25 U	< 0.25 U	< 0.25 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**0.268 J**	< 5 U	< 5 U	< 5 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	**0.366 UB**	< 5 U
108-86-1	Monobromobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U
91-20-3	Naphthalene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U
103-65-1	n-Propylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U
95-47-6	o-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
135-98-8	sec-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
100-42-5	Styrene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.132 J**	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U
98-06-6	tert-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
127-18-4	Tetrachloroethene	ug/L	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	**5.28**	**5.07**	**4.44**	**3.07**	**2.8**	**1.51**	**2.22**	**1.44**	**2.29**	**0.628 J**	< 1 U	**0.839 J**	**0.391 J**	**0.906 J**	**0.453 J**	< 0.25 U	< 0.25 U	**1.79**	< 1 U
108-88-3	Toluene	ug/L	---	< 1 U	< 1 U	< 1 U	**0.28 J**	**0.57 UB**	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**2.38**	**0.973 UB**	**0.32 J**	**0.641 J**	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
156-60-5	trans-1,2-Dichloroethene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.306 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U
79-01-6	Trichloroethene	ug/L	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	**0.953 J**	**1.78**	**1.54**	**1.22**	**1.74**	**1.13**	**1.03**	**1.62**	**1.54**	**1.23**	**0.486 J**	**1.36**	**1.59**	**1.77**	**1.76**	**1.09**	< 1 U	**1.86**	< 1 U
75-69-4	Trichlorofluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U
108-05-4	Vinyl acetate	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U
75-01-4	Vinyl chloride	ug/L	1	**0.458 J**	**0.545 J**	**0.543 J**	**0.811 J**	**0.262 J**	**0.28 J**	< 1 U	**0.321 J**	**0.410 J**	**0.259 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	**0.263 J**

Notes:
All detections are boldfaced
Values exceeding the chemical-specific criteria are shaded gray
ug/L - micrograms per liter
B - Analyte found in associated blank
D - Compounds reported at a secondary dilution factor
J - Estimated concentration
R - Rejected
U - Non-detect at the specified reporting limit

(1) Comparison criteria established in the Area E Record of Decision (ROD) (2008) for the five contaminants of concern (shaded).

(2) Based on sample times and results for samples E-MW-02 and E-95-3 collected on 8/31/2009, it is likely these were mislabeled, and results should be swapped.

Table 3
Historical Groundwater Sampling Results
Area E (PICA-077) Groundwater
Picatinny Arsenal, New Jersey

			Location ID	E-82-2	E-82-2	E-82-2	E-82-3	E-82-3	E-82-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-3	E-95-5	E-95-5	E-95-5	E-MW-01	E-MW-01
			Depth Interval	22.9 - 27.9	22.9 - 27.9	22.9 - 27.9	37.8 - 42.8	37.8 - 42.8	37.8 - 42.8	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10-20	10-20	16 - 21	16 - 21	16 - 21	10 - 20	10 - 20
			Sample Date	8/31/2009	8/26/2011	8/14/2013	9/12/2007	8/31/2009	8/26/2011	9/12/2007	12/27/2007	2/5/2008	5/20/2008	8/26/2008	11/19/2008	3/24/2009	6/18/2009	8/31/2009(2)	3/30/2010	9/8/2010	3/21/2011	8/26/2011	3/20/2012	9/18/2012	9/10/2013	7/9/2014	3/21/2011	3/20/2012	9/18/2012	9/20/2007	12/27/2007
CAS No	Chemical Name	Unit	Area E ROD Comparison Criteria(1)																												
630-20-6	1,1,1,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
71-55-6	1,1,1-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**3.26**	**2.29**	**15.1**	**4.05**	**5.01**	**3.42**	**4.36**	**1.46**	< 1 U	**7.53**	**7.86**	**8.15**	**5.16**	**1.05**	**8.58**	**1.68**	**13.2**	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U
79-00-5	1,1,2-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
75-34-3	1,1-Dichloroethane	ug/L	---	**7.03**	**4.11**	**7.37**	< 1 U	< 1 U	< 1 U	**1.08**	**1.17**	**4.6**	**1.07**	**1.21**	**1.66**	**1.89**	**0.29 J**	< 1 U	**2.81**	**2.86**	**3.06**	**2.4**	**0.267 J**	**4.7**	**0.674 J**	**8.1**	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U
75-35-4	1,1-Dichloroethene	ug/L	2	**2.25**	**1.13**	**3.54**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.685 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.77 J**	**0.522 J**	**0.665 J**	**0.509 J**	< 0.5 U	< 0.5 U	< 0.5 U	0.851 J	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U
563-58-6	1,1-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
87-61-6	1,2,3-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 1 U	< 0.15 U	< 0.15 U	< 1 U	< 1 U
96-18-4	1,2,3-Trichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U
95-63-6	1,2,4-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
106-93-4	1,2-Dibromoethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
95-50-1	1,2-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U
107-06-2	1,2-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
78-87-5	1,2-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U
108-67-8	1,3,5-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
541-73-1	1,3-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
142-28-9	1,3-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U
106-46-7	1,4-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U
594-20-7	2,2-dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
78-93-3	2-Butanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**3.46 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U
110-75-8	2-Chloroethyl vinyl ether	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 10 U	< 2 U	< 2 U	< 10 U	< 10 U
95-49-8	2-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U
591-78-6	2-Hexanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U
106-43-4	4-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
108-10-1	4-Methyl-2-pentanone (MIBK)	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U
67-64-1	Acetone	ug/L	---	**2.86 J**	**5.75 UB**	**7.17**	< 10 U	**3.23 J**	**9.45 UB**	< 10 U	< 10 U	< 10 U	**2.89 J**	**4.91 J**	**20.1**	**7.19 J**	**4.2 UB**	< 10 U	**2.54 J**	< 10 U	< 10 UB	**5.41 UB**	**50.1 UB**	**14.6**	**486**	**36.4 UB**	< 10 UB	**51.5 UB**	**14.4**	< 10 U	< 10 U
71-43-2	Benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U
75-27-4	Bromodichloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
75-25-2	Bromoform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U
74-83-9	Bromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U
104-51-8	Butyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
75-15-0	Carbon disulfide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U
56-23-5	Carbon tetrachloride	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
108-90-7	Chlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U
74-97-5	Chlorobromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U
75-00-3	Chloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U
67-66-3	Chloroform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.165 J**	**0.152 J**	**0.243 UB**	< 0.125 U	< 0.125 U	**0.324 J**	**0.132 J**	**0.218 J**	**0.231 J**	**0.164 J**	**0.372 J**	**0.328 UB**
74-87-3	Chloromethane	ug/L	---	**0.25 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.818 J**	< 1 U	< 1 U	< 1 U	**0.548 B**	**0.402 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U
156-59-2	cis-1,2-Dichloroethene	ug/L	70	< 1 U	< 1 U	**7.13**	< 1 U	< 1 U	< 1 U	**1.04**	**0.515 J**	**2.14**	**2.54**	**0.846 J**	**0.727 J**	**3.32**	**1.24**	< 1 U	**6.77**	**2.32**	**3.23**	**3.48**	**1.18**	**1.53**	**2.6**	**14.4**	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
10061-01-5	cis-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
99-87-6	Cymene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
124-48-1	Dibromochloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
96-12-8	Dibromochloropropane	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 1 U	< 5 U	< 5 U
75-71-8	Dichlorodifluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	**0.674 J**	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
100-41-4	Ethyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
87-68-3	Hexachlorobutadiene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
98-82-8	Isopropylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
179601-23-1	m-,p-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U
74-95-3	Methylene bromide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
75-09-2	Methylene chloride	ug/L	---	**0.289 UB**	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**1.54 J**	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 5 U	< 0.25 U	< 0.25 U	< 5 U	< 5 U
108-86-1	Monobromobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U
91-20-3	Naphthalene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U
103-65-1	n-Propylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U
95-47-6	o-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
135-98-8	sec-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
100-42-5	Styrene	ug/L	---	< 1 U	**0.158 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U
98-06-6	tert-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
127-18-4	Tetrachloroethene	ug/L	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**16**	**12.3**	**9.03**	**21.3**	**73.6**	**7.57**	**24.3**	**8.56**	< 1 U	**50.3**	**57.6**	**11**	**45.1**	**26.4**	**39.2**	**13.3**	**94.6**	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
108-88-3	Toluene	ug/L	---	< 1 U	**1.02**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
156-60-5	trans-1,2-Dichloroethene	ug/L	---	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U
79-01-6	Trichloroethene	ug/L	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**2.57**	**1.76**	**1.02**	**3.95**	**4.67**	**1.05**	**1.99**	**1.02**	< 1 U	**4.19**	**8.4**	**1.68**	**4.92**	**3.61**	**15.7**	**2.19**	**5.75**	**2.57**	**2.33**	**0.502 J**	**2.44**	**2.61**
75-69-4	Trichlorofluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U
108-05-4	Vinyl acetate	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U
75-01-4	Vinyl chloride	ug/L	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U

Notes:
All detections are boldfaced
Values exceeding the chemical-specific criteria are shaded gray
ug/L - micrograms per liter
B - Analyte found in associated blank
D - Compounds reported at a secondary dilution factor
J - Estimated concentration
R - Rejected
U - Non-detect at the specified reporting limit

(1) Comparison criteria established in the Area E Record of Decision (ROD) (2008) for the five contaminants of concern (shaded).

(2) Based on sample times and results for samples E-MW-02 and E-95-3 collected on 8/31/2009, it is likely these were mislabeled, and results should be swapped.

Table 3
Historical Groundwater Sampling Results
Area E (PICA-077) Groundwater
Picatinny Arsenal, New Jersey

			Location ID	E-MW-01	E-MW-01	E-MW-01	E-MW-01	E-MW-01	E-MW-01	E-MW-01	E-MW-01	E-MW-01	E-MW-01	E-MW-01	E-MW-01	E-MW-01	E-MW-02	E-MW-02	E-MW-02	E-MW-02	E-MW-02	E-MW-02	E-MW-02	E-MW-02	E-MW-02	E-MW-02	E-MW-02	E-MW-02	E-MW-02	E-MW-02	E-MW-02
			Depth Interval	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20
			Sample Date	2/5/2008	5/20/2008	8/26/2008	11/19/2008	3/24/2009	6/18/2009	8/31/2009	3/30/2010	9/8/2010	3/30/2011	8/26/2011	9/10/2013	7/9/2014	9/20/2007	12/27/2007	2/5/2008	5/20/2008	8/26/2008	11/19/2008	3/30/2009	6/18/2009	8/31/2009[2]	3/30/2010	9/10/2010	3/21/2011	8/26/2011	3/20/2012	9/18/2012
CAS No	Chemical Name	Unit	Area E ROD Comparison Criteria[1]																												
630-20-6	1,1,1,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
71-55-6	1,1,1-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U
79-00-5	1,1,2-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
75-34-3	1,1-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	**1.87**	**2.01**	**2.13**	**2.05**	**1.74**	**1.93**	**1.89**	**1.56 J**	**1.7**	**0.511 J**	**1.4**	**0.44 J**	**1.05**	**1.38**	**1.44**
75-35-4	1,1-Dichloroethene	ug/L	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**1.06**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
563-58-6	1,1-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
87-61-6	1,2,3-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U
96-18-4	1,2,3-Trichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
106-93-4	1,2-Dibromoethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
95-50-1	1,2-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
107-06-2	1,2-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
78-87-5	1,2-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U
108-67-8	1,3,5-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
541-73-1	1,3-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
142-28-9	1,3-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U
106-46-7	1,4-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
594-20-7	2,2-dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
78-93-3	2-Butanone	ug/L	---	< 10 U	< 10 U	< 10 U	**3.34 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U
110-75-8	2-Chloroethyl vinyl ether	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U
95-49-8	2-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
591-78-6	2-Hexanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U
106-43-4	4-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
108-10-1	4-Methyl-2-pentanone (MIBK)	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U
67-64-1	Acetone	ug/L	---	**4.86 J**	**2.99 J**	< 10 U	**20.8**	**5.1 J**	**4.49 UB**	**2.65 J**	**2.87 J**	**3.77 J**	< 10 UB	**7.18 UB**	**530**	**35 UB**	< 10 U	< 10 U	**4.38 J**	< 10 U	**3.6 J**	**18.6**	**5.22 J**	**4.36 J**	< 10 U	< 10 U	< 10 U	< 10 UB	**5.22 UB**	**47.5 UB**	**14.1**
71-43-2	Benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
75-27-4	Bromodichloromethane	ug/L	---	**0.825 J**	**1.24**	**1.02**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
75-25-2	Bromoform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
74-83-9	Bromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**2.81 B**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
104-51-8	Butyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
75-15-0	Carbon disulfide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
56-23-5	Carbon tetrachloride	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
108-90-7	Chlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
74-97-5	Chlorobromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U
75-00-3	Chloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
67-66-3	Chloroform	ug/L	---	**2.5**	**3.85**	**4.24**	**4.56**	**1.78**	**1.31 UB**	**0.989 J**	**0.671 J**	**0.664 J**	**1.05**	**1.12**	**1.42**	**1.26**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
74-87-3	Chloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	**0.531 B**	**0.353 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.35 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
156-59-2	cis-1,2-Dichloroethene	ug/L	70	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**4.51**	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
10061-01-5	cis-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
99-87-6	Cymene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
124-48-1	Dibromochloromethane	ug/L	---	**0.822 J**	**1.19**	**1.6**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
96-12-8	Dibromochloropropane	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U
75-71-8	Dichlorodifluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
100-41-4	Ethyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
87-68-3	Hexachlorobutadiene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
98-82-8	Isopropylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
179601-23-1	m-,p-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
74-95-3	Methylene bromide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
75-09-2	Methylene chloride	ug/L	---	< 5 U	< 5 U	**0.387 UB**	< 5 U	< 5 U	< 5 U	**0.268 UB**	**0.737 J**	< 5 U	< 5 U	< 5 U	< 5 U	< 0.25 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**0.786 J**	< 5 U	< 5 U	< 5 U	< 0.25 U	< 0.25 U
108-86-1	Monobromobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
91-20-3	Naphthalene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.535 J**	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U
103-65-1	n-Propylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
95-47-6	o-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
135-98-8	sec-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
100-42-5	Styrene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U
98-06-6	tert-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
127-18-4	Tetrachloroethene	ug/L	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.306 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**57.1**	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
108-88-3	Toluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.325 J**	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
156-60-5	trans-1,2-Dichloroethene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U
79-01-6	Trichloroethene	ug/L	1	**1.43**	**0.65 J**	**1.16**	**1.25**	**1.3**	**1.17**	**1.36**	**1.26**	**1.4**	**1.09**	**1.26**	**1.52**	**1.14**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	**3.61**	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
75-69-4	Trichlorofluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U
108-05-4	Vinyl acetate	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U
75-01-4	Vinyl chloride	ug/L	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	**0.819 J**	**0.866 J**	**1.2**	**0.936 J**	**0.769 J**	**0.906 J**	**0.969 J**	**0.486 J**	< 1 U	< 1 U	**0.456 J**	< 1 U	**0.447 J**	**0.965 J**	**0.699 J**

Notes:
All detections are boldfaced
Values exceeding the chemical-specific criteria are shaded gray
ug/L - micrograms per liter
B - Analyte found in associated blank
D - Compounds reported at a secondary dilution factor
J - Estimated concentration
R - Rejected
U - Non-detect at the specified reporting limit

[1] Comparison criteria established in the Area E Record of Decision (ROD) (2008) for the five contaminants of concern (shaded).

[2] Based on sample times and results for samples E-MW-02 and E-95-3 collected on 8/31/2009, it is likely these were mislabeled, and results should be swapped.

Table 3
Historical Groundwater Sampling Results
Area E (PICA-077) Groundwater
Picatinny Arsenal, New Jersey

			Location ID	E-MW-02	E-MW-02	E-MW-11	E-MW-11	E-MW-11	E-MW-11	E-MW-12H	E-MW-12L	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-1	E-WG11-2	E-WG11-2	E-WG11-2	E-WG11-2
			Depth Interval	10 - 20	10 - 20	9 - 20	9 - 20	9 - 20	9 - 20	9-20	20-30	20 - 30	20 - 30	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	20.1 - 25.1	7 - 17	10 - 15	10 - 15	10 - 15
			Sample Date	8/14/2013	7/9/2014	9/11/2007	8/31/2009	8/26/2011	8/14/2013	7/9/2014	7/9/2014	9/13/2007	9/13/2007	12/27/2007	2/5/2008	5/20/2008	8/26/2008	11/19/2008	3/30/2009	6/18/2009	8/31/2009	8/31/2009	3/30/2010	9/8/2010	3/21/2011	8/26/2011	3/20/2012	9/18/2012	8/14/2013	7/9/2014	9/13/2007	8/31/2009	8/26/2011	8/14/2013
CAS No	Chemical Name	Unit	Area E ROD Comparison Criteria[1]																															
630-20-6	1,1,1,2-Tetrachloroethane	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
71-55-6	1,1,1-Trichloroethane	ug/L	---	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	**6.05**	**5.97**	**4.88**	**1.71**	**1.1**	**3.88**	**2.89**	**2.2**	**1.31**	**0.945 J**	**0.832 J**	**0.73 J**	**2.44**	**2.76**	**1.49**	**2.25**	**2.21**	< 1 U	**1.44**	**6.92**	**0.893 J**	**1.18**	**1.44**
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	---	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
79-00-5	1,1,2-Trichloroethane	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	**1.03**	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
75-34-3	1,1-Dichloroethane	ug/L	---	**1.29**	**1.61**	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	**4.15**	**4.01**	**3.83**	**2.05**	**0.827 J**	**2.39**	**2.81**	**2.15**	**1.91**	**1.51**	**1.45**	**1.04**	**1.77**	**2.48**	**1.19**	**1.57**	**1.31**	**1.33**	**1.72**	**3.92**	**0.509 J**	**0.833 J**	**1.14**
75-35-4	1,1-Dichloroethene	ug/L	2	< 1 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	**4.69**	**4.35**	**6.03**	**4.79**	**5.68**	**5.14**	**9.33**	**5.58**	**7.8**	**4.89**	**5.08**	**4.57**	**2.43**	**5.06**	**4.6**	**3.81**	**1.09**	**3.81**	**3.5**	**0.768 J**	< 1 U	< 1 U	< 1 U
563-58-6	1,1-Dichloropropene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
87-61-6	1,2,3-Trichlorobenzene	ug/L	---	< 0.15 U	< 0.15 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.153 UB**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 1 U	< 1 U	< 1 U	< 1 U
96-18-4	1,2,3-Trichloropropane	ug/L	---	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	---	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
95-63-6	1,2,4-Trimethylbenzene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
106-93-4	1,2-Dibromoethane	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
95-50-1	1,2-Dichlorobenzene	ug/L	---	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	**0.178 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	**0.37 J**	< 1 U	< 1 U	< 1 U
107-06-2	1,2-Dichloroethane	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
78-87-5	1,2-Dichloropropane	ug/L	---	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
108-67-8	1,3,5-Trimethylbenzene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
541-73-1	1,3-Dichlorobenzene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	**0.308 J**	< 1 U	< 1 U	< 1 U
142-28-9	1,3-Dichloropropane	ug/L	---	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
106-46-7	1,4-Dichlorobenzene	ug/L	---	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	**0.267 J**	< 1 U	< 1 U	< 1 U
594-20-7	2,2-dichloropropane	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
78-93-3	2-Butanone	ug/L	---	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U
110-75-8	2-Chloroethyl vinyl ether	ug/L	---	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 10 UJ	< 10 U	< 10 U	< 10 U
95-49-8	2-Chlorotoluene	ug/L	---	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
591-78-6	2-Hexanone	ug/L	---	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U
106-43-4	4-Chlorotoluene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
108-10-1	4-Methyl-2-pentanone (MIBK)	ug/L	---	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U
67-64-1	Acetone	ug/L	---	**3.97**	**40.3 UB**	< 10 U	< 10 U	**7.41 UB**	**4.36**	**53.7**	**54**	< 10 U	< 10 U	< 10 U	**4.46 J**	< 10 U	**2.52 J**	**19.7**	**9.68 J**	**6.59 UB**	< 10 U	**3.75 J**	< 10 U	**3.36 J**	< 10 UB	**7.66 UB**	**49.4 UB**	**14.1**	**3.52 J**	**51.9**	< 10 U	**2.61 J**	**4.66 UB**	**4.28 J**
71-43-2	Benzene	ug/L	---	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
75-27-4	Bromodichloromethane	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
75-25-2	Bromoform	ug/L	---	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
74-83-9	Bromomethane	ug/L	---	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**2.78 B**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
104-51-8	Butyl benzene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
75-15-0	Carbon disulfide	ug/L	---	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
56-23-5	Carbon tetrachloride	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
108-90-7	Chlorobenzene	ug/L	---	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	**0.343 J**	**0.246 J**	**0.249 J**	**0.165 UB**	< 1 U	< 1 U	**0.357 UB**	**0.14 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	**0.145 J**	**0.189 J**	< 1 U	< 1 U	< 1 U
74-97-5	Chlorobromomethane	ug/L	---	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
75-00-3	Chloroethane	ug/L	---	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
67-66-3	Chloroform	ug/L	---	< 0.125 U	< 0.125 U	< 1 U	**0.312 J**	**0.803 UB**	**0.455**	**0.193 J**	**0.314 J**	**0.327 J**	**0.319 J**	**0.309 UB**	**0.174 J**	**0.148 J**	**0.214 J**	**0.298 J**	**0.176 J**	**0.313 UB**	< 1 U	< 1 U	< 1 U	**0.15 J**	**0.18 J**	**0.143 UB**	**0.135 J**	< 0.125 U	< 0.125 U	**0.184 J**	**0.145 J**	< 1 U	**0.161 UB**	< 1 U
74-87-3	Chloromethane	ug/L	---	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.294 J**	< 1 U	< 1 U	**0.266 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
156-59-2	cis-1,2-Dichloroethene	ug/L	70	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.813 J**	**0.412 J**	**3.17**	**3.26**	**2.98**	**1.37**	**1.2**	**2**	**2.35**	**1.87**	**1.69**	**3.01**	**2.95**	**1.66**	**2.39**	**3.55**	**2.37**	**2.12**	**2.34**	**1.99**	**4.32**	**1.9**	**0.863 J**	**1.12**	**0.749 J**
10061-01-5	cis-1,3-Dichloropropene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
99-87-6	Cymene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
124-48-1	Dibromochloromethane	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
96-12-8	Dibromochloropropane	ug/L	---	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U
75-71-8	Dichlorodifluoromethane	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
100-41-4	Ethyl benzene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
87-68-3	Hexachlorobutadiene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
98-82-8	Isopropylbenzene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
179601-23-1	m-,p-Xylene	ug/L	---	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
74-95-3	Methylene bromide	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
75-09-2	Methylene chloride	ug/L	---	< 0.25 U	< 0.25 U	< 5 U	< 5 U	< 5 U	< 5 U	**0.341 UB**	**0.383 UB**	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**0.968 UB**	< 5 U	**0.416 UB**	< 5 U	**0.428 J**	< 5 U	< 5 U	< 5 U	< 0.25 U	< 0.25 U	< 0.25 U	**0.434 UB**	< 5 U	< 5 U	< 5 U	< 5 U
108-86-1	Monobromobenzene	ug/L	---	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
91-20-3	Naphthalene	ug/L	---	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.24 UB**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
103-65-1	n-Propylbenzene	ug/L	---	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
95-47-6	o-Xylene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
135-98-8	sec-Butylbenzene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
100-42-5	Styrene	ug/L	---	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
98-06-6	tert-Butylbenzene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
127-18-4	Tetrachloroethene	ug/L	1	< 1 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	**3**	**39.9**	**37.9**	**11.4**	**6.63**	**11.9**	**19**	**6.64**	**15.9**	**11.4**	**1.75**	**2.09**	**6.64**	**5.79**	**10.5**	**6.76**	**16.1**	**8.72**	**6.27**	**22.9**	**20.1**	**7.09**	**3.42**	**0.892 J**
108-88-3	Toluene	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.73 J**	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
156-60-5	trans-1,2-Dichloroethene	ug/L	---	1.11	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	1.99	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	---	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
79-01-6	Trichloroethene	ug/L	1	< 1 U	< 0.25 U	**4.8**	**4.47**	**3.93**	**2.11**	**6.2**	**17.2**	**12.7**	**12.4**	**12.3**	**7.28**	**9**	**11.5**	**9.05**	**9.39**	**8.76**	**14.1**	**13.8**	**5.87**	**7.16**	**7.4**	**6.16**	**9.42**	**7.64**	**7.88**	**10.2**	**5.13**	**4.11**	**2.94**	**2.25**
75-69-4	Trichlorofluoromethane	ug/L	---	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
108-05-4	Vinyl acetate	ug/L	---	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U
75-01-4	Vinyl chloride	ug/L	1	< 1 U	**0.533 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	**0.548 J**	< 1 U	< 1 U	< 1 U	< 1 U

Notes:
All detections are boldfaced
Values exceeding the chemical-specific criteria are shaded gray
ug/L - micrograms per liter
B - Analyte found in associated blank
D - Compounds reported at a secondary dilution factor
J - Estimated concentration
R - Rejected
U - Non-detect at the specified reporting limit

(1) Comparison criteria established in the Area E Record of Decision (ROD) (2008) for the five contaminants of concern (shaded).
(2) Based on sample times and results for samples E-MW-02 and E-95-3 collected on 8/31/2009, it is likely these were mislabeled, and results should be swapped.

Table 3
Historical Groundwater Sampling Results
Area E (PICA-077) Groundwater
Picatinny Arsenal, New Jersey

			Location ID	E-WG11-3	E-WG11-3	E-WG11-3	E-WG3-1	E-WG3-1	E-WG3-1	E-WG3-1	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-2	E-WG3-3	E-WG3-3	E-WG3-3
			Depth Interval	30 - 35	30 - 35	30 - 35	31.8 - 36.8	31.8 - 36.8	31.8 - 36.8	31.8 - 36.8	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	20.3 - 25.3	11.5 - 16.5	11.5 - 16.5	11.5 - 16.5
			Sample Date	9/13/2007	8/31/2009	8/26/2011	9/11/2007	8/31/2009	8/26/2011	9/10/2013	9/11/2007	12/27/2007	2/5/2008	5/20/2008	8/26/2008	11/19/2008	3/24/2009	6/18/2009	8/31/2009	3/29/2010	9/8/2010	3/21/2011	8/26/2011	3/20/2012	9/18/2012	9/10/2013	7/9/2014	8/31/2009	8/26/2011	9/10/2013
CAS No	Chemical Name	Unit	Area E ROD Comparison Criteria[1]																													
630-20-6	1,1,1,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
71-55-6	1,1,1-Trichloroethane	ug/L	---	**0.599 J**	< 1 U	< 1 U	**2.63**	< 1 U	< 1 U	**0.931**	**6.32**	**4.08**	**4.06**	**4.04**	**4.94**	**2.48**	**3.98**	**2.87**	**1.4**	**3.45**	**1.42**	**2.16**	**1.62**	**3.65**	**1.36**	< 1 U	**3.8**	< 1 U	**0.669 J**	< 1 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U
79-00-5	1,1,2-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	**2.58**	< 0.25 U	< 1 U	< 1 U	< 1 U
75-34-3	1,1-Dichloroethane	ug/L	---	**3.15**	< 1 U	**0.508 J**	**2.1**	**15.3**	< 1 U	< 1 U	**1.63**	**1.37**	**1.2**	**0.851 J**	**1.42**	**1.16**	**1.41**	**1.18**	**0.785 J**	**1.25**	**0.746 J**	**0.882 J**	**0.722 J**	**1.3**	**0.799 J**	**0.998 J**	**1.31**	< 1 U	**0.932 J**	< 1 U
75-35-4	1,1-Dichloroethene	ug/L	2	**1.9**	< 1 U	< 1 U	< 1 U	**4.52**	< 1 U	**1.48**	**5.97**	**4.15**	**3.71**	**4.07**	**5.47**	**3.37**	**4.73**	**2.94**	**1.73**	**3.19**	**2.23**	**2.35**	**2.49**	**4.21**	**1.39**	**2.08**	**3.7**	< 1 U	< 1 U	< 1 U
563-58-6	1,1-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
87-61-6	1,2,3-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 1 U	< 1 U	< 1 U
96-18-4	1,2,3-Trichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U
95-63-6	1,2,4-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
106-93-4	1,2-Dibromoethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
95-50-1	1,2-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U
107-06-2	1,2-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
78-87-5	1,2-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U
108-67-8	1,3,5-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
541-73-1	1,3-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
142-28-9	1,3-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U
106-46-7	1,4-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U
594-20-7	2,2-dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
78-93-3	2-Butanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**3.9 J**	< 10 U	**2.97 UB**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U
110-75-8	2-Chloroethyl vinyl ether	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U
95-49-8	2-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U
591-78-6	2-Hexanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U
106-43-4	4-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
108-10-1	4-Methyl-2-pentanone (MIBK)	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U
67-64-1	Acetone	ug/L	---	< 10 U	**4.95 J**	**7.83 UB**	< 10 U	< 10 U	**7 UB**	< 10 U	< 10 U	< 10 U	**4.14 J**	< 10 U	**4.44 J**	**22.4**	**8.26 J**	**5.61 UB**	< 10 U	**3.2 UB**	**3.77 J**	< 10 UB	**7.31 UB**	**50.4 UB**	**16.6**	**6.50 J**	**53.3**	< 10 U	**7.93 UB**	**9.81 J**
71-43-2	Benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U
75-27-4	Bromodichloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
75-25-2	Bromoform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U
74-83-9	Bromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.524 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U
104-51-8	Butyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
75-15-0	Carbon disulfide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U
56-23-5	Carbon tetrachloride	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
108-90-7	Chlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.132 J**	< 1 U	**0.138 J**	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U
74-97-5	Chlorobromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U
75-00-3	Chloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U
67-66-3	Chloroform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.277 J**	**0.261 UB**	**0.232 J**	**0.176 J**	**0.196 J**	**0.212 J**	**0.195 J**	**0.501 UB**	< 1 U	**0.212 J**	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	0.182 J	< 1 U	< 1 U	< 1 U
74-87-3	Chloromethane	ug/L	---	< 1 U	**0.28 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.466 B**	**0.297 J**	< 1 U	**0.29 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U
156-59-2	cis-1,2-Dichloroethene	ug/L	70	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**12.8**	**12.7**	**12.1**	**13.9**	**11.8**	**11.2**	**13.9**	**12.9**	**27.1**	**47.5**	**27.6**	**25.2**	**21.1**	**31.8**	**17.5**	**21.08**	**36.1**	< 1 U	< 1 U	**1.33**
10061-01-5	cis-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
99-87-6	Cymene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
124-48-1	Dibromochloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
96-12-8	Dibromochloropropane	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U
75-71-8	Dichlorodifluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
100-41-4	Ethyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
87-68-3	Hexachlorobutadiene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
98-82-8	Isopropylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
179601-23-1	m-,p-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U
74-95-3	Methylene bromide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
75-09-2	Methylene chloride	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**0.584 J**	< 5 U	**0.304 UB**	**0.466 UB**	**0.289 J**	< 5 U	< 5 U	< 0.25 U	< 0.25 U	< 0.25 U	**0.355 UB**	**0.458 UB**	< 5 U	< 5 U
108-86-1	Monobromobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U
91-20-3	Naphthalene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U
103-65-1	n-Propylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U
95-47-6	o-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
135-98-8	sec-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
100-42-5	Styrene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.156 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.299 J**	< 1 U	**0.133 J**	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U
98-06-6	tert-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
127-18-4	Tetrachloroethene	ug/L	1	**1.26**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**28.9**	**14.7**	**13.7**	**10.3**	**14.6**	**8.77**	**8.18**	**10.5**	< 1 U	**8.68**	< 1 U	**14.4**	**0.533 J**	**5.49**	< 0.25 U	**9.6**	**1.69**	< 1 U	< 1 U	< 1 U
108-88-3	Toluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.636 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.415 J**	**1.59**	< 1 U	**0.832 J**	< 0.25 U	**0.331 J**	< 0.25 U	< 0.25 U	**0.414 J**	< 1 U	< 1 U
156-60-5	trans-1,2-Dichloroethene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**1.21**	**1.31**	**1.3**	**1.22**	**0.986 J**	**1.34**	**0.815 J**	**1.32**	**0.699 J**	**1.76**	**0.644 J**	**1.59**	**0.633 J**	**1.06**	**0.569 J**	**1.11**	**1.04**	< 1 U	< 1 U	< 1 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U
79-01-6	Trichloroethene	ug/L	1	**0.513 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**32.9**	**36.3**	**37.9**	**41.9**	**28.9**	**31.8**	**29.5**	**34.1**	**1.94**	**9.05**	< 1 U	**22.5**	**2.38**	**9.73**	**1.9**	**15.6**	**2.04**	< 1 U	< 1 U	**0.816 J**
75-69-4	Trichlorofluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U
108-05-4	Vinyl acetate	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U
75-01-4	Vinyl chloride	ug/L	1	< 1 U	< 1 U	< 1 U	**0.664 J**	**0.304 J**	< 1 U	**0.607 J**	**0.868 J**	**0.738 J**	< 1 U	**0.747 J**	**0.949 J**	< 1 U	**0.716 J**	**0.762 J**	< 1 U	**1.3**	**0.284 J**	**0.685 J**	**0.595 J**	**1.52**	**7.38**	**3.47**	**2.23**	< 1 U	**0.395 J**	< 1 U

Notes:
All detections are boldfaced
Values exceeding the chemical-specific criteria are shaded gray
ug/L - micrograms per liter
B - Analyte found in associated blank
D - Compounds reported at a secondary dilution factor
J - Estimated concentration
R - Rejected
U - Non-detect at the specified reporting limit

[1] Comparison criteria established in the Area E Record of Decision (ROD) (2008) for the five contaminants of concern (shaded).

[2] Based on sample times and results for samples E-MW-02 and E-95-3 collected on 8/31/2009, it is likely these were mislabeled, and results should be swapped.

Table 4
Historical Surface Water Sampling Results
Area E (PICA-077) Surface Water
Picatinny Arsenal, New Jersey

			Location ID	D-SW-5	D-SW-5	D-SW-5	D-SW-5	D-SW-5	D-SW-5	D-SW-5	D-SW-5	D-SW-5	D-SW-5	D-SW-5	D-SW-5	D-SW-5	D-SW-5	D-SW-5	D-SW-5	E-38-SW-001	E-38-SW-001	E-38-SW-001	E-38-SW-001
			Sample Date	9/10/2007	12/27/2007	2/5/2008	5/20/2008	8/25/2008	11/19/2008	3/24/2009	6/18/2009	8/25/2009	3/30/2010	3/23/2011	8/11/2011	3/9/2012	9/7/2012	7/30/2013	**7/9/2014**	9/10/2007	12/27/2007	2/5/2008	5/20/2008
CAS No	Chemical Name	Unit	SWQC for COCs[1,2]																				
630-20-6	1,1,1,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
71-55-6	1,1,1-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
79-00-5	1,1,2-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
75-34-3	1,1-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
75-35-4	1,1-Dichloroethene	ug/L	4.7	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
563-58-6	1,1-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
87-61-6	1,2,3-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 1 U	< 1 U	< 1 U	< 1 U
96-18-4	1,2,3-Trichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
95-63-6	1,2,4-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
106-93-4	1,2-Dibromoethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
95-50-1	1,2-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
107-06-2	1,2-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
78-87-5	1,2-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
108-67-8	1,3,5-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
541-73-1	1,3-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
142-28-9	1,3-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
106-46-7	1,4-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
594-20-7	2,2-dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
78-93-3	2-Butanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U
110-75-8	2-Chloroethyl vinyl ether	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U
95-49-8	2-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
591-78-6	2-Hexanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U
106-43-4	4-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
108-10-1	4-Methyl-2-pentanone (MIBK)	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U
67-64-1	Acetone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	**3.46 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U
71-43-2	Benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
75-27-4	Bromodichloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
75-25-2	Bromoform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
74-83-9	Bromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**2.91 B**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
104-51-8	Butyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
75-15-0	Carbon disulfide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
56-23-5	Carbon tetrachloride	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
108-90-7	Chlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	**0.156 UB**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
74-97-5	Chlorobromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
75-00-3	Chloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
67-66-3	Chloroform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
74-87-3	Chloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.281 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
156-59-2	cis-1,2-Dichloroethene	ug/L	---	**1.95**	< 1 U	< 1 U	< 1 U	**1.27**	< 1 U	**0.998 J**	< 1 U	< 1 U	< 1 U	< 1 U	**1.92**	**0.744 J**	**0.907 J**	< 1 U	**0.828 J**	**1.9**	< 1 U	< 1 U	< 1 U
10061-01-5	cis-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
99-87-6	Cymene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
124-48-1	Dibromochloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
96-12-8	Dibromochloropropane	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U
75-71-8	Dichlorodifluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
100-41-4	Ethyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
87-68-3	Hexachlorobutadiene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
98-82-8	Isopropylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
179601-23-1	m-,p-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
74-95-3	Methylene bromide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
75-09-2	Methylene chloride	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**0.539 J**	< 5 U	< 5 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 5 U	< 5 U	< 5 U	< 5 U
108-86-1	Monobromobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
91-20-3	Naphthalene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U
103-65-1	n-Propylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
95-47-6	o-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
135-98-8	sec-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
100-42-5	Styrene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U
98-06-6	tert-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
127-18-4	Tetrachloroethene	ug/L	0.34	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
108-88-3	Toluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
156-60-5	trans-1,2-Dichloroethene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
79-01-6	Trichloroethene	ug/L	1	**0.71 J**	< 1 U	< 1 U	< 1 U	**0.391 J**	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 1 U	**0.446 J**	< 0.25 U	**0.272 J**	< 0.25 U	**0.342 J**	**0.635 J**	< 1 U	< 1 U	< 1 U
75-69-4	Trichlorofluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U
108-05-4	Vinyl acetate	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U
75-01-4	Vinyl chloride	ug/L	0.082	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.354 J**	< 1 U	< 1 U	< 1 U	< 1 U	**0.795 J**	**0.313 J**	**0.939 J**	< 1 U	**0.335 J**	**0.392 J**	< 1 U	< 1 U	< 1 U

Notes:

All detections are boldfaced

Values exceeding the chemical-specific criteria are shaded gray.

LOC - Level of Concern

ug/L - micrograms per liter

B - Analyte found in associated blank

J - Estimated concentration

U - Non-detect at the specified reporting limit

NA - not available

[1] New Jersey Department of Environmental Protection (NJDEP) Surface Water Quality Criteria (SWQC) provided for comparison

[2] September 2010 surface water samples were inadvertently not collected.

Table 4
Historical Surface Water Sampling Results
Area E (PICA-077) Surface Water
Picatinny Arsenal, New Jersey

			Location ID	E-38-SW-001	E-38-SW-001	E-38-SW-001	E-38-SW-001	E-38-SW-001	E-38-SW-001	E-38-SW-001	E-38-SW-001	E-38-SW-001	E-38-SW-001	E-38-SW-001	E-38-SW-001	E-38-SW-004	E-38-SW-004	E-38-SW-004	E-38-SW-004	E-38-SW-004	E-38-SW-004	E-38-SW-004	E-38-SW-004
			Sample Date	8/25/2008	11/19/2008	3/24/2009	6/18/2009	8/25/2009	3/30/2010	3/21/2011	8/11/2011	3/9/2012	9/7/2012	7/30/2013	**7/9/2014**	9/10/2007	12/27/2007	2/5/2008	5/20/2008	8/25/2008	11/19/2008	3/24/2009	6/18/2009
CAS No	Chemical Name	Unit	SWQC for COCs[1]																				
630-20-6	1,1,1,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
71-55-6	1,1,1-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
79-00-5	1,1,2-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-34-3	1,1-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-35-4	1,1-Dichloroethene	ug/L	4.7	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
563-58-6	1,1-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
87-61-6	1,2,3-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
96-18-4	1,2,3-Trichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
95-63-6	1,2,4-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
106-93-4	1,2-Dibromoethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
95-50-1	1,2-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
107-06-2	1,2-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
78-87-5	1,2-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
108-67-8	1,3,5-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
541-73-1	1,3-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
142-28-9	1,3-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
106-46-7	1,4-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
594-20-7	2,2-dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
78-93-3	2-Butanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
110-75-8	2-Chloroethyl vinyl ether	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
95-49-8	2-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
591-78-6	2-Hexanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
106-43-4	4-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
108-10-1	4-Methyl-2-pentanone (MIBK)	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
67-64-1	Acetone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	**2.85 J**	< 10 U	< 10 U	< 10 U
71-43-2	Benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-27-4	Bromodichloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-25-2	Bromoform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
74-83-9	Bromomethane	ug/L	---	< 1 U	**2.98 B**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**2.97 B**	< 1 U	< 1 U
104-51-8	Butyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-15-0	Carbon disulfide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
56-23-5	Carbon tetrachloride	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
108-90-7	Chlorobenzene	ug/L	---	**0.172 UB**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.191 UB**	< 1 U	< 1 U	< 1 U
74-97-5	Chlorobromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-00-3	Chloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
67-66-3	Chloroform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
74-87-3	Chloromethane	ug/L	---	< 1 U	**0.328 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.283 J**	**0.321 J**	< 1 U
156-59-2	cis-1,2-Dichloroethene	ug/L	---	**0.929 J**	< 1 U	**0.733 J**	< 1 U	< 1 U	< 1 U	< 1 U	**1.85**	**0.763 J**	**0.674 J**	**0.281 J**	**0.742 J**	**1.81**	< 1 U	< 1 U	< 1 U	**1.01**	< 1 U	**0.819 J**	< 1 U
10061-01-5	cis-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
99-87-6	Cymene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
124-48-1	Dibromochloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
96-12-8	Dibromochloropropane	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
75-71-8	Dichlorodifluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
100-41-4	Ethyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
87-68-3	Hexachlorobutadiene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
98-82-8	Isopropylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
179601-23-1	m-,p-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
74-95-3	Methylene bromide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
75-09-2	Methylene chloride	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
108-86-1	Monobromobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
91-20-3	Naphthalene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
103-65-1	n-Propylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
95-47-6	o-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
135-98-8	sec-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
100-42-5	Styrene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
98-06-6	tert-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
127-18-4	Tetrachloroethene	ug/L	0.34	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
108-88-3	Toluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
156-60-5	trans-1,2-Dichloroethene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
79-01-6	Trichloroethene	ug/L	1	**0.5 J**	< 1 U	**0.268 J**	< 1 UJ	< 1 U	< 1 U	< 1 U	**0.457 J**	**0.28 J**	< 0.25 U	< 0.25 U	**0.333 J**	**0.618 J**	< 1 U	< 1 U	< 1 U	**0.426 J**	< 1 U	**0.251 J**	< 1 UJ
75-69-4	Trichlorofluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
108-05-4	Vinyl acetate	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
75-01-4	Vinyl chloride	ug/L	0.082	< 1 U	< 1 U	**0.291 J**	< 1 U	< 1 U	< 1 U	< 1 U	**0.702 J**	< 0.25 U	**0.621 J**	< 0.25 U	**0.304 J**	**0.393 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**0.282 J**	< 1 U

Notes:

All detections are boldfaced

Values exceeding the chemical-specific criteria are shaded gray.

LOC - Level of Concern

ug/L - micrograms per liter

B - Analyte found in associated blank

J - Estimated concentration

U - Non-detect at the specified reporting limit

NA - not available

[1] New Jersey Department of Environmental Protection (NJDEP) Surface Water Quality Criteria (SWQC) provided for comparison

[2] September 2010 surface water samples were inadvertently not collected.

Table 4
Historical Surface Water Sampling Results
Area E (PICA-077) Surface Water
Picatinny Arsenal, New Jersey

			Location ID	E-38-SW-004	E-38-SW-004	E-38-SW-004	E-38-SW-004	E-38-SW-004	E-38-SW-004	E-38-SW-004	E-38-SW-004
			Sample Date	8/25/2009	3/30/2010	3/23/2011	8/11/2011	3/6/2012	9/7/2012	7/30/2013	7/9/2014
CAS No	Chemical Name	Unit	SWQC for COCs[1]								
630-20-6	1,1,1,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
71-55-6	1,1,1-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
79-00-5	1,1,2-Trichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
75-34-3	1,1-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U
75-35-4	1,1-Dichloroethene	ug/L	4.7	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
563-58-6	1,1-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
87-61-6	1,2,3-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U
96-18-4	1,2,3-Trichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
106-93-4	1,2-Dibromoethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
95-50-1	1,2-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U
107-06-2	1,2-Dichloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
78-87-5	1,2-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
108-67-8	1,3,5-Trimethylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
541-73-1	1,3-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
142-28-9	1,3-Dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
106-46-7	1,4-Dichlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U
594-20-7	2,2-dichloropropane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
78-93-3	2-Butanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U
110-75-8	2-Chloroethyl vinyl ether	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U
95-49-8	2-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U
591-78-6	2-Hexanone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U
106-43-4	4-Chlorotoluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
108-10-1	4-Methyl-2-pentanone (MIBK)	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U
67-64-1	Acetone	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U
71-43-2	Benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U
75-27-4	Bromodichloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
75-25-2	Bromoform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
74-83-9	Bromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
104-51-8	Butyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
75-15-0	Carbon disulfide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
56-23-5	Carbon tetrachloride	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
108-90-7	Chlorobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U
74-97-5	Chlorobromomethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
75-00-3	Chloroethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
67-66-3	Chloroform	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U
74-87-3	Chloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
156-59-2	cis-1,2-Dichloroethene	ug/L	---	< 1 U	< 1 U	< 1 U	**1.91**	**0.805 J**	**0.852 J**	**0.333 J**	**0.789 J**
10061-01-5	cis-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
99-87-6	Cymene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
124-48-1	Dibromochloromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
96-12-8	Dibromochloropropane	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U
75-71-8	Dichlorodifluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
100-41-4	Ethyl benzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
87-68-3	Hexachlorobutadiene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
98-82-8	Isopropylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
179601-23-1	m-,p-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
74-95-3	Methylene bromide	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
75-09-2	Methylene chloride	ug/L	---	< 5 U	< 5 U	< 5 U	< 5 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
108-86-1	Monobromobenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U
91-20-3	Naphthalene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
103-65-1	n-Propylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U
95-47-6	o-Xylene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
135-98-8	sec-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
100-42-5	Styrene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.125 U	< 0.125 U	< 0.125 U	< 0.125 U
98-06-6	tert-Butylbenzene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
127-18-4	Tetrachloroethene	ug/L	0.34	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
108-88-3	Toluene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
156-60-5	trans-1,2-Dichloroethene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
79-01-6	Trichloroethene	ug/L	1	< 1 U	< 1 U	< 1 U	**0.413 J**	**0.269 J**	**0.266 J**	< 1 U	0.344 J
75-69-4	Trichlorofluoromethane	ug/L	---	< 1 U	< 1 U	< 1 U	< 1 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
108-05-4	Vinyl acetate	ug/L	---	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U
75-01-4	Vinyl chloride	ug/L	0.082	< 1 U	< 1 U	< 1 U	**0.757 J**	**0.350 J**	**0.833 J**	< 1 U	**0.321 J**

Notes:

All detections are boldfaced

Values exceeding the chemical-specific criteria are shaded gray.

LOC - Level of Concern

ug/L - micrograms per liter

B - Analyte found in associated blank

J - Estimated concentration

U - Non-detect at the specified reporting limit

NA - not available

[1] New Jersey Department of Environmental Protection (NJDEP) Surface Water Quality Criteria (SWQC) provided for comparison

[2] September 2010 surface water samples were inadvertently not collected.

Table 5
Surface Water Discharge Data Summary for Green Pond Brook
Area E (PICA-077) Groundwater
Picatinny Arsenal, New Jersey

USGS Gauging Station Number	Location Description	September 2007 Mean Discharge (ft^3/sec.)	December 2007 Mean Discharge (ft^3/sec.)	January 2008 Mean Discharge (ft^3/sec.)	May 2008 Mean Discharge (ft^3/sec.)	August 2008 Mean Discharge (ft^3/sec.)	November 2008 Mean Discharge (ft^3/sec.)	March 2009 Mean Discharge (ft^3/sec.)	June 2009 Mean Discharge (ft^3/sec.)	August 2009 Mean Discharge (ft^3/sec.)	March 2010 Mean Discharge (ft^3/sec.)	June 2010 Mean Discharge (ft^3/sec)	August 2010 Mean Discharge (ft^3/sec.)
01379780[1]	**Monthly Discharge for Green Pond Brook (Period of Record 10/01/1984 - 9/30/2008)**	3.0	15.6	24.1	17.3	0.9	21.5	9.3	23.3	12.1	88.4	2.4	1.3

USGS Gauging Station Number	Location Description	9/10/2007 Mean Discharge (ft^3/sec.)	12/10/2007 Mean Discharge (ft^3/sec.)	1/22/2008 Mean Discharge (ft^3/sec.)	5/6/2008 Mean Discharge (ft^3/sec.)	8/25/2008 Mean Discharge (ft^3/sec.)	11/19/2008 Mean Discharge (ft^3/sec.)	3/24/2009 Mean Discharge (ft^3/sec.)	6/18/2009 Mean Discharge (ft^3/sec.)	8/25/2009 Mean Discharge (ft^3/sec.)	3/30/2010 Mean Discharge (ft^3/sec.)	6/8/2010 Mean Discharge (ft^3/sec.)	8/24/2010 Mean Discharge (ft^3/sec.)
01379780[1]	**Green Pond Brook Mean Surface Water Discharge on the day of the site Surface Water Sampling Event**	1.5	13.0	16.0	12.0	0.42	31.0	6.8	33.0	11.0	129.0	1.1	2.6

ft^3/sec - cubic feet per second
USGS - United States Geological Survey

[1] This is the closest Green Pond Brook gauging station to the subject site. Mean discharges are listed for the gauging station for the days when surface water samples are collected at the site. For comparison purposes, the mean of the monthly discharges calculated for each month for the entire period of record are also provided above.

Table 5
Surface Water Discharge Data Summary for Green Pond Brook
Area E (PICA-077) Groundwater
Picatinny Arsenal, New Jersey

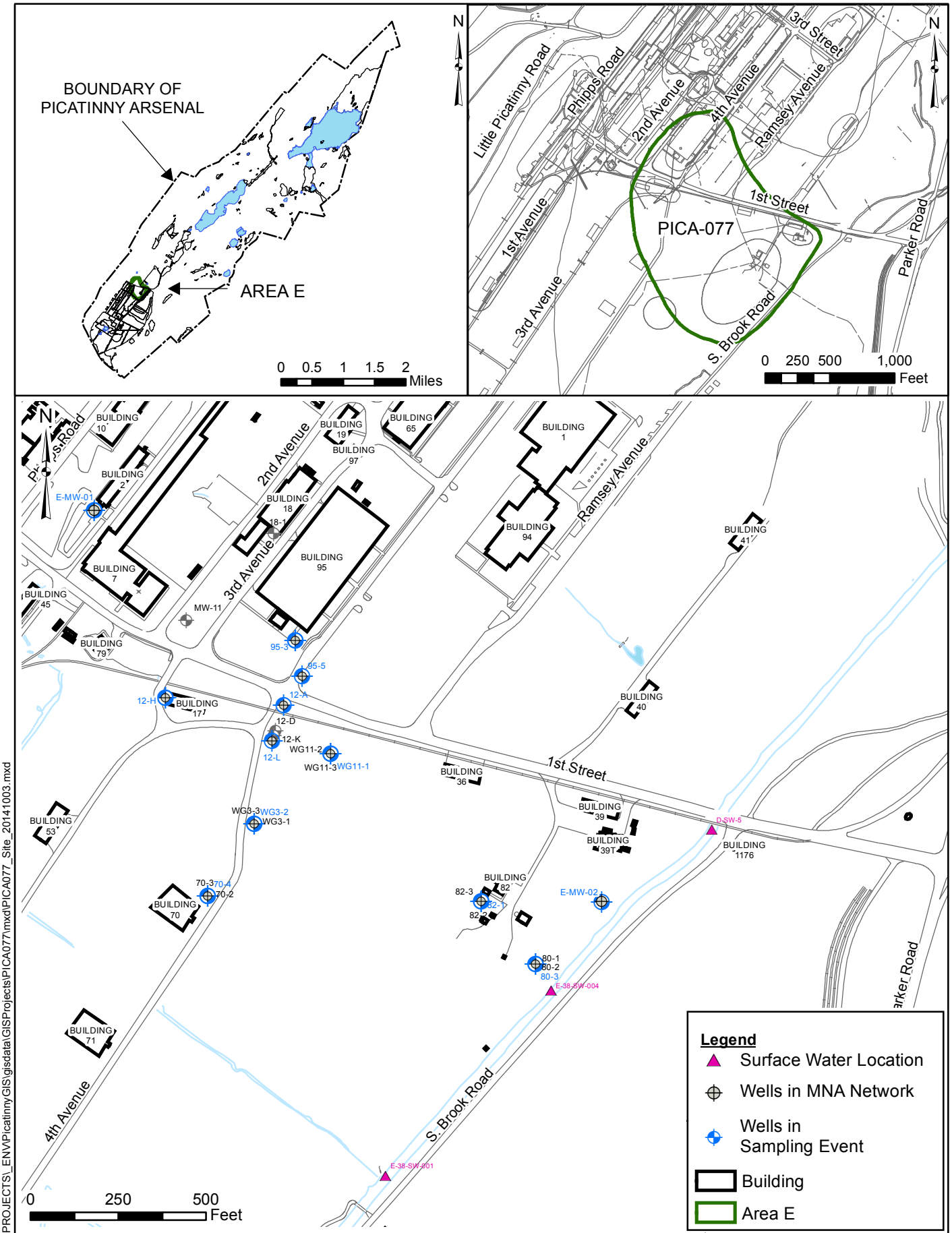
USGS Gauging Station Number	Location Description	December 2010 Mean Discharge (ft^3/sec.)	March 2011 Mean Discharge (ft^3/sec.)	June 2011 Mean Discharge (ft^3/sec.)	August 2011 Mean Discharge (ft^3/sec.)	March 2012 Mean Discharge (ft^3/sec.)	September 2012 Mean Discharge (ft^3/sec.)	July 2013 Mean Discharge (ft^3/sec.)	July 2014 Mean Discharge (ft^3/sec.)
01379780[1]	Monthly Discharge for Green Pond Brook (Period of Record 10/01/1984 - 9/30/2008)	24.0	85.3	7.1	55.6	6.0	2.0	8.9	5.3

USGS Gauging Station Number	Location Description	12/8/2010 Mean Discharge (ft^3/sec.)	3/23/2011 Mean Discharge (ft^3/sec.)	6/22/2011 Mean Discharge (ft^3/sec.)	8/11/2011 Mean Discharge (ft^3/sec.)	3/23/2012 Mean Discharge (ft^3/sec.)	9/7/2012 Mean Discharge (ft^3/sec.)	7/30/2013 Mean Discharge (ft^3/sec.)	7/9/2014 Mean Discharge (ft^3/sec.)
01379780[1]	Green Pond Brook Mean Surface Water Discharge on the day of the site Surface Water Sampling Event	13.0	61.0	2.7	1.4	4.8	2.1	6.0	3.8

ft^3/sec - cubic feet per second
USGS - United States Geological Survey

[1] This is the closest Green Pond Brook gauging station to the subject site. Mean discharges are listed for the gauging station for the days when surface water samples are collected at the site. For comparison purposes, the mean of the monthly discharges calculated for each month for the entire period of record are also provided above.

Figures



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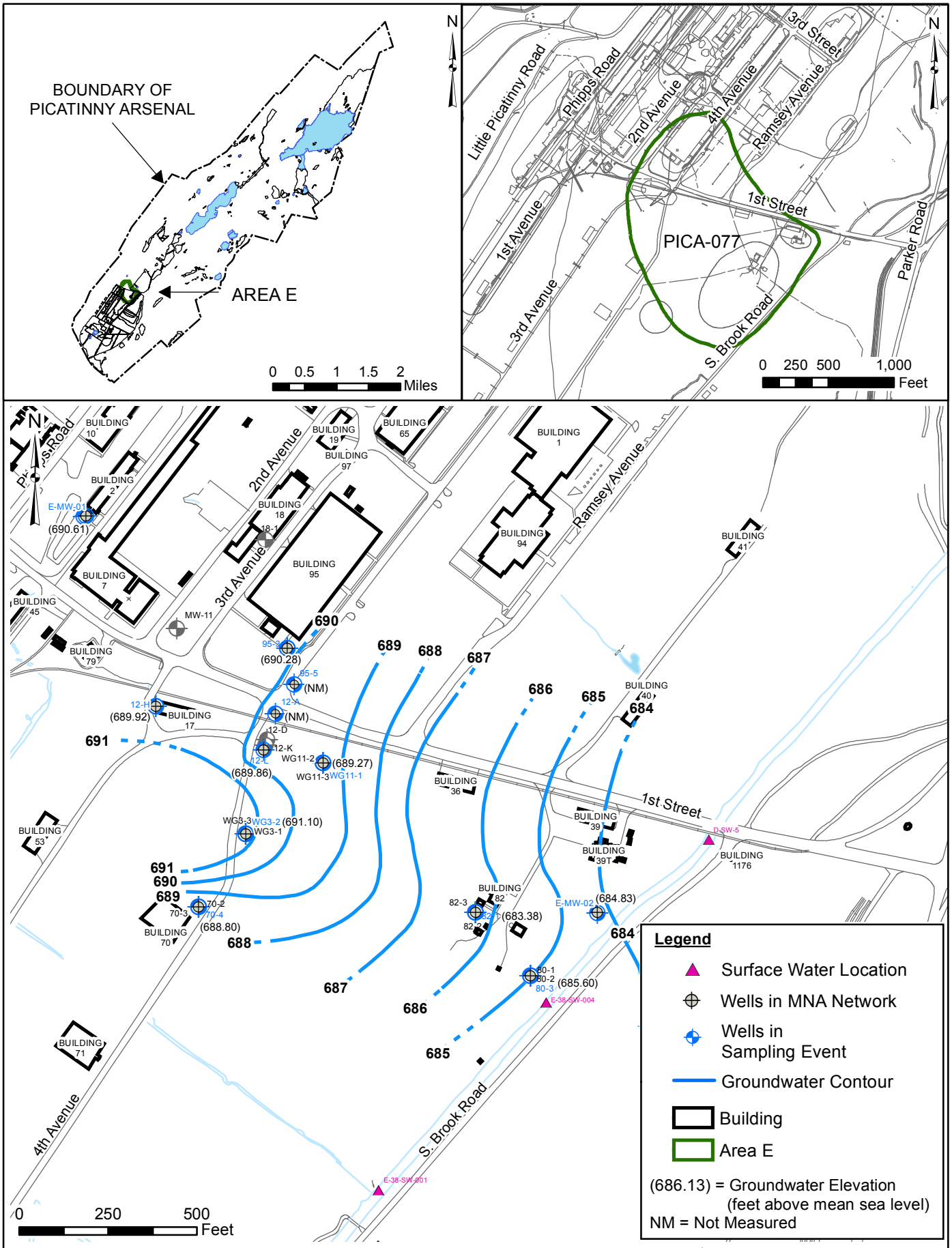
ARCADIS

ARCADIS - Baltimore, MD
1114 Benfield Blvd, Suite A
Millersville, MD 21108
Phone: (410) 987-0032
Fax: (410) 987-4392

AREA E (PICA-077) SITE LOCATION, MONITORING WELL NETWORK, AND SURFACE WATER SAMPLE LOCATIONS PICATINNY ARSENAL, NEW JERSEY

PROJECT MANAGER T. LLEWELLYN	DEPARTMENT MANAGER J.CHERRY
DRAWN M. GRESS	CHECKED S.KAMAS
PROJECT NUMBER GP06PICA.LM13.4MD13	DRAWING NUMBER 1



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ARCADIS

ARCADIS - Baltimore, MD
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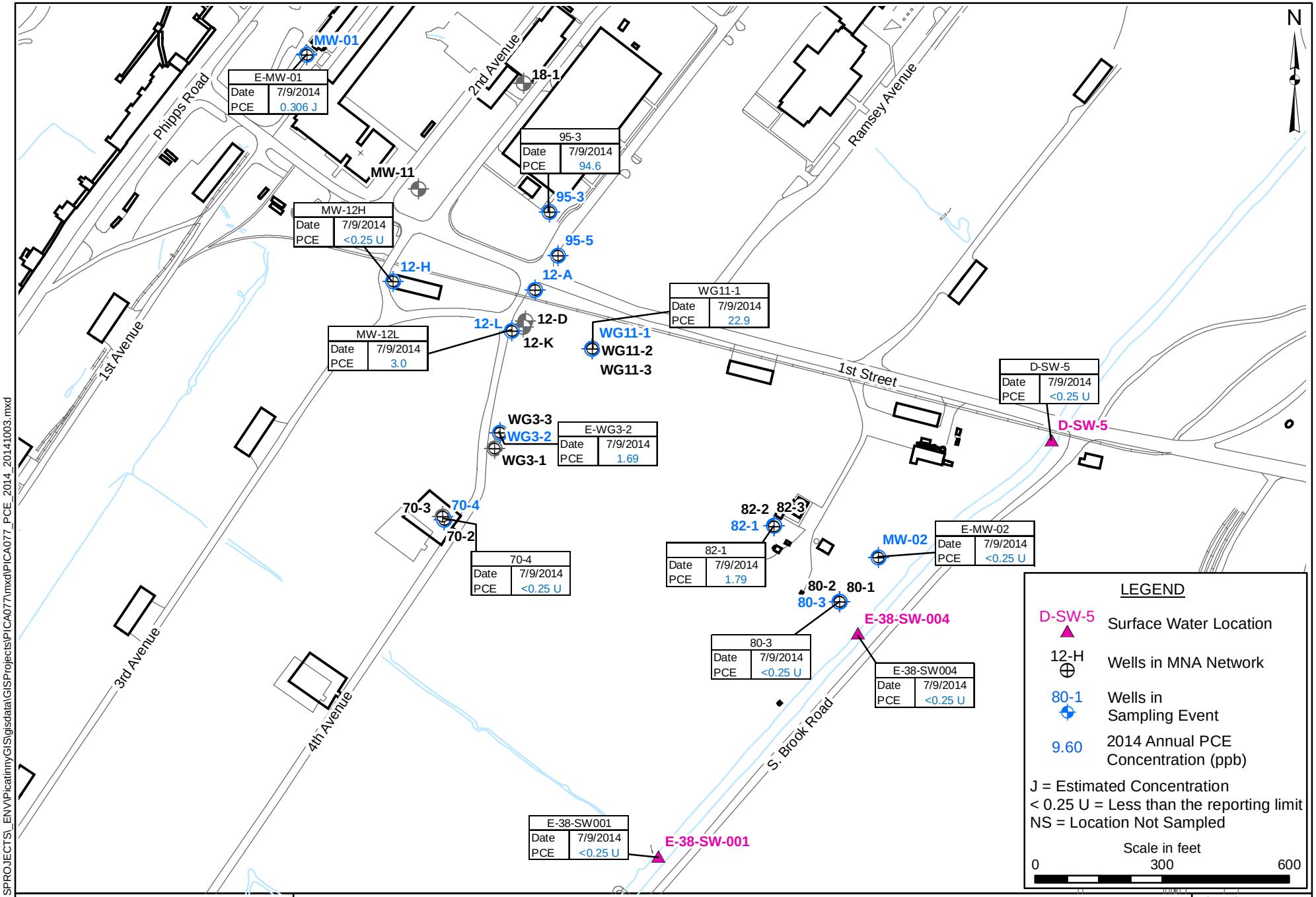
Fax: (410) 987-4392

2014 PICA-077
GROUNDWATER ELEVATION CONTOUR MAP
PICATINNY ARSENAL, NEW JERSEY

PROJECT MANAGER T. LLEWELLYN	DEPARTMENT MANAGER J.CHERRY
DRAWN M. GRESS	CHECKED S.KAMAS
PROJECT NUMBER GP06PICA.LM13.4MD13	DRAWING NUMBER 2



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ARCADIS
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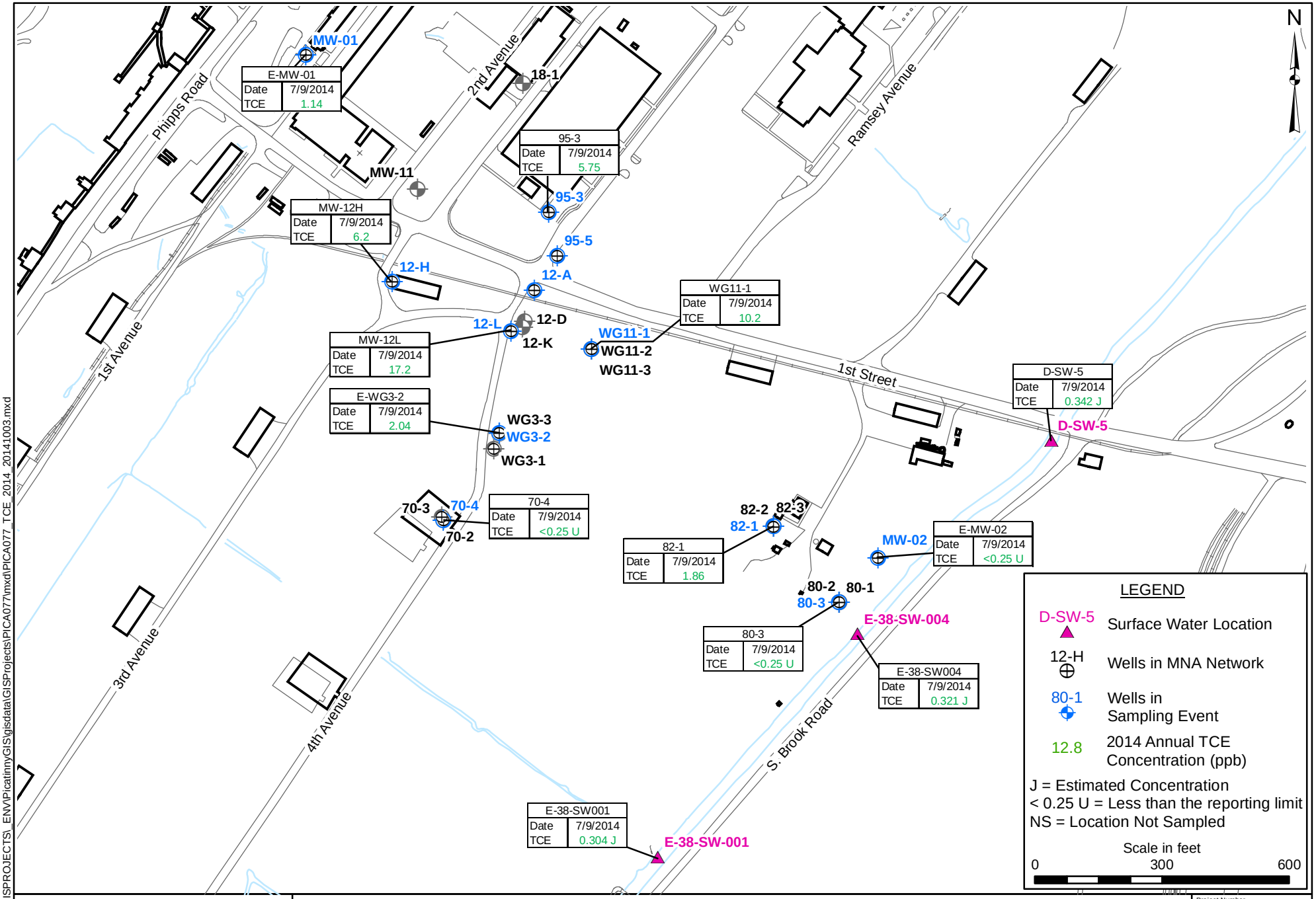
PCE GROUNDWATER AND SURFACE WATER CONCENTRATION MAP
PICA-077 (AREA E)
PICATINNY ARSENAL, NEW JERSEY

Project Number GP06PICA.LM13.4MD13
Drawing Date 03 Oct 2014
Figure 3



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ARCADIS
1114 Benfield Boulevard, Suite A
Millersvile, Maryland 21108
Tel (410) 987-0032 Fax (410) 987-4392

TCE GROUNDWATER AND SURFACE WATER CONCENTRATIONS MAP
PICA-077 (AREA E)
PICATINNY ARSENAL, NEW JERSEY

Project Number GP06PICA.LM12.4MD12
Drawing Date 03 Oct 2014
Figure 4

Appendix A

Field Forms
(Provided on CD)

EPA Region 2 Superfund Well Assessment Checklist: 12-E

Facility Information

Site Name: Picatinny Arsenal, Area E (PICA 07~~6~~7)
Site Address: North East Office Garrison Bldg. 319, Picatinny Arsenal, NJ 07806
Site County: Morris County
Site State: New Jersey
EPA Site ID Number: NJ3210020704
Site Owner: US Department of Army Picatinny Arsenal
EPA Project Manager: Mr William Roach, USEPA Region II

Well Locational Information

State Well ID: 25-25482
Well Tag ID: NA
Well Installation date: 1/1/1983

	From Log	By GPS
Ground Surface Elevation	NA	
Latitude	N/A	N/A
Longitude	N/A	N/A
Northing (State Plane)	764695.473	N/A
Easting (State Plane)	471555.8797	N/A

Cross streets (if applicable): N/A
GPS Instrument used: CAD
Datum: N/A
Accuracy/Precision: N/A

Well Construction Details

Type of well (Circle one): Flush Mount | **Stick up**
Well lock\security type: LOCKED
Elevation (Top of inner Riser - TOR): NA (ft)
Surface (Stick up) casing material: Steel
Well riser material: PVC
Measuring/Reference Point: YES
Stick up Height (ags): 2.6 (ft)
Inner Riser Height - TOR (ags): ~~2.8~~ 2.4 (ft)
Difference; Stick up & TOR: .2 (ft)
Surface Casing diameter: 8" inches
Inner Riser diameter: ~~8~~ 4 inches
Well Depth (as installed): 20.0 ft (bgs)
Well Depth (as measured): 20.72 ft (TOR)
Screened interval (as installed): 15.0 - 20.0 ft (bgs)
Depth to water: 4.61 ft (TOR)
Date: 4-9-14 Time: Estimated 1300 - 1500

NOTE: 'ags' means above ground surface; positive if above, negative if below. 'bgs' means below ground surface.
'TOR' means Top Of inner Riser pipe.

EPA Region 2 Superfund Well Assessment Checklist: 12-E

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): Ø *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL:	N/A	*% LEL*
O_2:	N/A	*40% Vol.*
CO:	N/A	*ppm*
H_2S:	N/A	*ppm*

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal/J-Plug?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth[1]?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	NA Yes	No

Other Comments _____

(1) If sounding depth is within 0.5 feet of the previous sounding depth then check yes (previous depth 94.45 TOR)

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
Action necessary.	(Yes)	No

Comments

Inspected by: Chris Goldsmith & Nick Comrie

Date of Inspection: 7-9-14

Reviewed by: Veronica Bean **(Print)**

Veronica L Bean **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist: 70-1A

Facility Information

Site Name: Picatinny Arsenal, Area E (PICA 07~~0~~) Area E Site 208
Site Address: North East Office Garrison Bldg. 319, Picatinny Arsenal, NJ 07806
Site County: Morris County
Site State: New Jersey
EPA Site ID Number: NJ3210020704
Site Owner: US Department of Army Picatinny Arsenal
EPA Project Manager: Mr William Roach, USEPA Region II

Well Locational Information

State Well ID: 25-33703
Well Tag ID: NO TAG FOUND
Well Installation date: NA

	From Log	By GPS
Ground Surface Elevation	NA	
Latitude	N/A	N/A
Longitude	N/A	N/A
Northing (State Plane)	765060.22	N/A
Easting (State Plane)	471291.85	N/A

Cross streets (if applicable): N/A
GPS Instrument used: CAD
Datum: N/A
Accuracy/Precision: N/A

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up)
Well lock\security type: LOCKED
Elevation (Top of inner Riser - TOR): NA (ft)
Surface (Stick up) casing material: Steel
Well riser material: PVC
Measuring/Reference Point: NO
Stick up Height (ags): 1.95 (ft)
Inner Riser Height - TOR (ags): ~~2~~ 1.75 (ft)
Difference; Stick up & TOR: .20 (ft)
Surface Casing diameter: 4 inches
Inner Riser diameter: 2 inches
Well Depth (as installed): ft (bgs)
Well Depth (as measured): 16.35 ft (TOR)
Screened interval (as installed): NA ft (bgs)
Depth to water: 3.39 ft (TOR)
Date: ~~3~~ 4-9-14 Time: 1440

NOTE: 'ags' means above ground surface; positive if above, negative if below. 'bgs' means below ground surface. 'TOR' means Top Of inner Riser pipe.

EPA Region 2 Superfund Well Assessment Checklist: 70-1A

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): Ø ppm

Multi-gas/CGI meter Readings taken (if applicable):

LEL:	N/A	% LEL
O_2:	N/A	40% Vol.
CO:	N/A	ppm
H_2S:	N/A	ppm

Do readings indicate unsafe conditions exist? Yes **No**

Well Condition

Is the concrete pad in good condition?	**Yes**	No
Is the well surface casing in good condition?	**Yes**	No
Is the surface casing vertical?	**Yes**	No
Is there an internal well seal/J-Plug?	**Yes**	No
Has there been physical damage to the well?	Yes	**No**
Does sounding depth match completed depth[1]?	Yes	No
Is measuring point marked?	Yes	**No**
Is the well clearly labeled?	**Yes**	No
Flush mount - Is it secure from runoff?	NA Yes	No

Other Comments _____

(1) If sounding depth is within 0.5 feet of the previous sounding depth then check yes (previous depth 94.45 TOR)

Recommendations

Well needs to be redeveloped	Yes	**No**
Well needs to be re-surveyed.	Yes	**No**
Well needs to be repaired.	Yes	**No**
Well needs to be replaced.	Yes	**No**
Well needs to be properly abandoned.	Yes	**No**
Action necessary.	**Yes**	No

Comments

Inspected by: Chris Goldsmith & Nick Comrie

Date of Inspection: 4-8-14

Reviewed by: Veronica Bean **(Print)**

Veronica Bean **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist: 70-1

Facility Information

Site Name: Picatinny Arsenal, Area E (PICA 076)
Site Address: North East Office Garrison Bldg. 319, Picatinny Arsenal, NJ 07806
Site County: Morris County
Site State: New Jersey
EPA Site ID Number: NJ3210020704
Site Owner: US Department of Army Picatinny Arsenal
EPA Project Manager: Mr William Roach, USEPA Region II

Well Locational Information

State Well ID: 25-33572
Well Tag ID: NA
Well Installation date: 1/1/1989

	From Log	By GPS
Ground Surface Elevation	NA	
Latitude	N/A	N/A
Longitude	N/A	N/A
Northing (State Plane)	765040.04	N/A
Easting (State Plane)	471271.65	N/A

Cross streets (if applicable): N/A
GPS Instrument used: CAD
Datum: N/A
Accuracy/Precision: N/A

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up)
Well lock\security type: LOCKED
Elevation (Top of inner Riser - TOR): NA (ft)
Surface (Stick up) casing material: Steel
Well riser material: PVC
Measuring/Reference Point: NO
Stick up Height (ags): 1.80 (ft)
Inner Riser Height - TOR (ags): 1.85 (ft)
Difference; Stick up & TOR: 0.05 (ft)
Surface Casing diameter: 4 inches
Inner Riser diameter: 2 inches
Well Depth (as installed): ~~68.0~~ 63.0 ft (bgs)
Well Depth (as measured): 63.15 ft (TOR)
Screened interval (as installed): ~~58.0 - 68.0~~ 53.0 - 63.0 ft (bgs)
Depth to water: 2.18 ft (TOR)
Date: 4-9-14 Time: 1430

NOTE: 'ags' means above ground surface; positive if above, negative if below. 'bgs' means below ground surface.
'TOR' means Top Of inner Riser pipe.

EPA Region 2 Superfund Well Assessment Checklist: 70-1

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): Ø *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL:	N/A	*% LEL*
O_2:	N/A	*40% Vol.*
CO:	N/A	*ppm*
H_2S:	N/A	*ppm*

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal/J-Plug?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth[1]?	(Yes)	(No)
Is measuring point marked?	Yes	(No)
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	NA Yes	No

Other Comments _____

(1) If sounding depth is within 0.5 feet of the previous sounding depth then check yes (previous depth 94.45 TOR)

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
Action necessary.	(Yes)	No

Comments

Inspected by: Chris Goldsmith & Nick Comrie

Date of Inspection: 4-9-14

Reviewed by: Veronica Bean **(Print)**

Veronica L. Bean **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist: 95-1

Facility Information

Site Name: Picatinny Arsenal, Area E (PICA 07[illegible]) Area E SITE: 38
Site Address: North East Office Garrison Bldg. 319, Picatinny Arsenal, NJ 07806
Site County: Morris County
Site State: New Jersey
EPA Site ID Number: NJ3210020704
Site Owner: US Department of Army Picatinny Arsenal
EPA Project Manager: Mr William Roach, USEPA Region II

Well Locational Information

State Well ID: 25-29850
Well Tag ID: TAG Found / Fair condition
Well Installation date: 9/28/1987

	From Log	By GPS
Ground Surface Elevation	NA	–
Latitude	N/A	N/A
Longitude	N/A	N/A
Northing (State Plane)	765923.27	N/A
Easting (State Plane)	471522.5453	N/A

Cross streets (if applicable): N/A
GPS Instrument used: CAD
Datum: N/A
Accuracy/Precision: N/A

Well Construction Details

Type of well (Circle one): **Flush Mount** Stick up
Well lock\security type: Lid Bolted in Place
Elevation (Top of inner Riser - TOR): NA (ft)
Surface (Stick up) casing material: Steel
Well riser material: Stainless Steel
Measuring/Reference Point: NO
Stick up Height (ags): NA (ft)
Inner Riser Height - TOR (ags): -0.6 (ft)
Difference; Stick up & TOR: NA (ft)
Surface Casing diameter: NA inches
Inner Riser diameter: 4 inches
Well Depth (as installed): 120.0 ft (bgs)
Well Depth (as measured): 118.0 ft (TOR)
Screened interval (as installed): 100.0 - 120.0 ft (bgs)
Depth to water: 1.52 ft (TOR)
Date: 4-9-14 Time: 1415

NOTE: 'ags' means above ground surface; positive if above, negative if below. 'bgs' means below ground surface. 'TOR' means Top Of inner Riser pipe.

~~Sethe~~ Sheen observed!

EPA Region 2 Superfund Well Assessment Checklist: 95-1

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): Ø ppm

Multi-gas/CGI meter Readings taken (if applicable):

LEL:	N/A	% LEL
O_2:	N/A	40% Vol.
CO:	N/A	ppm
H_2S:	N/A	ppm

Do readings indicate unsafe conditions exist? Yes **No**

Well Condition

Is the concrete pad in good condition?	**Yes**	No
Is the well surface casing in good condition?	**Yes**	No
Is the surface casing vertical?	**Yes**	No
Is there an internal well seal/J-Plug?	**Yes**	No
Has there been physical damage to the well?	Yes	**No**
Does sounding depth match completed depth[1]?	**Yes**	No
Is measuring point marked?	Yes	**No**
Is the well clearly labeled?	Yes	**No**
Flush mount - Is it secure from runoff?	**Yes**	No

Other Comments _____

(1) If sounding depth is within 0.5 feet of the previous sounding depth then check yes (previous depth 94.45 TOR)

Recommendations

Well needs to be redeveloped	Yes	**No**
Well needs to be re-surveyed.	Yes	**No**
Well needs to be repaired.	Yes	**No**
Well needs to be replaced.	Yes	**No**
Well needs to be properly abandoned.	Yes	**No**
Action necessary.	**Yes**	No

Comments

HGS sheen on top of water surface

Inspected by: Chris Goldsmith & Nick Comrie

Date of Inspection: 4-9-14

Reviewed by: Veronica Bean **(Print)**

Veronica Bean **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist: ~~39-2~~ 39-1

Facility Information

Site Name: Picatinny Arsenal, Area E (PICA 077) Area E Site 44
Site Address: North East Office Garrison Bldg. 319, Picatinny Arsenal, NJ 07806
Site County: Morris County
Site State: New Jersey
EPA Site ID Number: NJ3210020704
Site Owner: US Department of Army Picatinny Arsenal
EPA Project Manager: Mr William Roach, USEPA Region II

Well Locational Information

State Well ID: 25-29847
Well Tag ID: TAG FOUND / ~~POOR~~ Fair/Poor condition
Well Installation date: 9-28-87

	From Log	By GPS
Ground Surface Elevation	NA	NA
Latitude	N/A	N/A
Longitude	N/A	N/A
Northing (State Plane)	765294.728	N/A
Easting (State Plane)	472505.4461	N/A

Cross streets (if applicable): N/A
GPS Instrument used: CAD
Datum: N/A
Accuracy/Precision: N/A

Well Construction Details

Type of well (Circle one) Flush Mount Stick up
Well lock\security type: LOCKED LID
Elevation (Top of inner Riser - TOR): NA (ft)
Surface (Stick up) casing material: Steel
Well riser material: PVC
Measuring/Reference Point: NO
Stick up Height (ags): ~~2.5~~ NA (ft)
Inner Riser Height - TOR (ags): ~~2~~ -.25 (ft)
Difference; Stick up & TOR: NA (ft)
Surface Casing diameter: NA inches
Inner Riser diameter: 4 inches
Well Depth (as installed): 100.0 ft (bgs)
Well Depth (as measured): 102.25 ft (TOR)
Screened interval (as installed): 90.0 - 100.0 ft (bgs)
Depth to water: 1.55 ft (TOR)
Date: 4-9-14 Time: 1315

NOTE: 'ags' means above ground surface; positive if above, negative if below. 'bgs' means below ground surface.
'TOR' means Top Of inner Riser pipe.

EPA Region 2 Superfund Well Assessment Checklist: 39-2

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): Ø *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL:	N/A	*% LEL*
O_2:	N/A	*40% Vol.*
CO:	N/A	*ppm*
H_2S:	N/A	*ppm*

Do readings indicate unsafe conditions exist? Yes **No**

Well Condition

Is the concrete pad in good condition?	**Yes**	No
Is the well surface casing in good condition?	**Yes**	No
Is the surface casing vertical?	**Yes**	No
Is there an internal well seal/J-Plug?	**Yes**	No
Has there been physical damage to the well?	Yes	**No**
Does sounding depth match completed depth[1]?	**Yes**	No
Is measuring point marked?	**Yes**	No
Is the well clearly labeled?	**Yes**	No
Flush mount - Is it secure from runoff?	**Yes**	No

Other Comments _____

(1) If sounding depth is within 0.5 feet of the previous sounding depth then check yes (previous depth 94.45 TOR)

Recommendations

Well needs to be redeveloped	Yes	**No**
Well needs to be re-surveyed.	Yes	**No**
Well needs to be repaired.	Yes	**No**
Well needs to be replaced.	Yes	**No**
Well needs to be properly abandoned.	Yes	**No**
Action necessary.	**Yes**	No

Comments

Inspected by: Chris Goldsmith & Nick Comrie

Date of Inspection: 4-9-14

Reviewed by: Veronica Bean **(Print)**

Veronica L. Bean **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist: ~~38-3~~ 39-2

Facility Information

Site Name: Picatinny Arsenal, Area E (PICA 077) Area: E Site: 44
Site Address: North East Office Garrison Bldg. 319, Picatinny Arsenal, NJ 07806
Site County: Morris County
Site State: New Jersey
EPA Site ID Number: NJ3210020704
Site Owner: US Department of Army Picatinny Arsenal
EPA Project Manager: Mr William Roach, USEPA Region II

Well Locational Information

State Well ID: 25-29846
Well Tag ID: TAG FOUND - POOR CONDITION
Well Installation date: 9-28-87

	From Log	By GPS
Ground Surface Elevation	NA	—
Latitude	N/A	N/A
Longitude	N/A	N/A
Northing (State Plane)	765279.556	N/A
Easting (State Plane)	472486.1613	N/A

Cross streets (if applicable): N/A
GPS Instrument used: CAD
Datum: N/A
Accuracy/Precision: N/A

Well Construction Details

Type of well (Circle one) Flush Mount Stick up
Well lock\security type: LOCKED LID
Elevation (Top of inner Riser - TOR): NA (ft)
Surface (Stick up) casing material: Steel
Well riser material: PVC
Measuring/Reference Point: NO
Stick up Height (ags): NA (ft)
Inner Riser Height - TOR (ags): -.15 (ft)
Difference; Stick up & TOR: NA (ft)
Surface Casing diameter: NA inches
Inner Riser diameter: 4 inches
Well Depth (as installed): 205.0 ft (bgs)
Well Depth (as measured): >200 ft (TOR)
Screened interval (as installed): 195.0 - 205.0 ft (bgs)
Depth to water: 2.25 ft (TOR)
Date: 4-9-14 Time: 1320

NOTE: 'ags' means above ground surface; positive if above, negative if below. 'bgs' means below ground surface. 'TOR' means Top Of inner Riser pipe.

EPA Region 2 Superfund Well Assessment Checklist: 39-1

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL:	N/A	*% LEL*
O_2:	N/A	*40% Vol.*
CO:	N/A	*ppm*
H_2S:	N/A	*ppm*

Do readings indicate unsafe conditions exist? Yes **No**

Well Condition

Is the concrete pad in good condition?	**Yes**	No
Is the well surface casing in good condition?	**Yes**	No
Is the surface casing vertical?	**Yes**	No
Is there an internal well seal/J-Plug?	**Yes**	No
Has there been physical damage to the well?	Yes	**No**
Does sounding depth match completed depth[1]?	**Yes**	No
Is measuring point marked?	Yes	**No**
Is the well clearly labeled?	**Yes**	No
Flush mount - Is it secure from runoff?	**Yes**	No

Other Comments _____

(1) If sounding depth is within 0.5 feet of the previous sounding depth then check yes (previous depth 94.45 TOR)

Recommendations

Well needs to be redeveloped	Yes	**No**
Well needs to be re-surveyed.	Yes	**No**
Well needs to be repaired.	Yes	**No**
Well needs to be replaced.	Yes	**No**
Well needs to be properly abandoned.	Yes	**No**
Action necessary.	**Yes**	No

Comments

Inspected by: Chris Goldsmith & Nick Comrie

Date of Inspection: 4-9-14

Reviewed by: Veronica Bean **(Print)**

Veronica L. Bean **(Sign)**

COC No. A 42169

158 Starlite Drive
Marietta, OH 45750

Microbac

CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Fax: 740-373-4835

Company Name: ARCADIS- U.S., Inc.

Project Contact: Jacelyne Powell

Contact Phone #: @ 713-953-4807

Turn Around Requirements: Standard

Location: Picatinny Arsenal

Project ID: ~~Standard~~ GP06PICA.LM14.3RD14/PICA077

Sampler (print): C. Goldsmith, N. Comrie

Signature: [illegible]

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other _____

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	VOC - method 8260	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
E-38-SW001(070914)		X	7/9/14	1500	WS	3		X		
E-38-SW004(070914)		X	7/9/14	1450	WG	3		X		
D-SW005(070914)		X	7/9/14	1440	WG	3		X		
E-80-MW003(070914)		X	7/9/14	1430	WG	3		X		
E-MW002(070914)		X	7/9/14	1425	WG	3		X		
E-11W-MW001(070914)		X	7/9/14	1415	WG	3		X		
E-3WG-MW002(070914)		X	7/9/14	1410	WG	3		X		
E-70-MW004(070914)		X	7/9/14	1400	WG	3		X		
E-MW012L(070914)		X	7/9/14	1355	WG	3		X		
E-MW012H(070914)		X	7/9/14	1350	WG	3		X		
E-MW001(070914)		X	7/9/14	1340	WG	3		X		
E-95-MW003(070914)		X	7/9/14	1335	WG	3		X		
FB001(070914)		X	7/9/14	1200	WQ	3		X		
TB1(9289)		X	7/9/14	1600	WQ	2		X		
E-82-MW001(071014)		X	7/10/14	1500	WG	3		X		
TB1(9669)		X	7/10/14	1600	WQ	2		X		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[illegible]	7/10/14	1600					

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

ARCADIS

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal, NJ

Location: Area E, PICA 077

Well ID: E-80-3

Well Type: ☐ Monitoring ☐Other: _____

Well Finish: ☐ Stick Up ☐Flush Mount

Measuring Pt: ☐ Top of inner Casing ☐Other (specify): _____

Total Depth (ftbgs): 53.98 **Screened Interval (ftbgs):** 44.85'-54.85'

Well Casing: Diameter: 2" Material: PVC

Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: ~~5~~ 4-18-14 Time: 0855

Weather Conditions: Sun cloudy + 49

Depth to groundwater at time of deployment: 5.55

Type of PDB used: ☐Lab Filled (Modified Trip Blank must be taken at time of deployment)

X Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

Dimensions of PDB: Length (in.) 18" Diameter (in.) 1.75"

Position of PDB weight: ☐Attached to bottom of PDB and suspended in well

☐Attached to bottom of deployment line and suspended in well

X Attached to bottom of deployment line and resting on bottom of well (preferred)

Retrieval (note: minimum deployment period is 2 weeks)

Date and Time of Retrieval: Date: 7-9-14 Time: 1430

Total # of days deployed: 82 days

Weather Conditions: Sunny + 85°F

Depth to groundwater at time of retrieval: 7.37

Downhole Field Parameters Upon Retrieval:

Temp: 15.08 (mV) **ORP:** 223.5 **(mV)** **Water quality meter:** _____ **YSI 600**

pH: 4.74 **DO:** 0.08 **(mg/L)** **Serial #:** 16835

Notes/Observations:

Field Sampling Technician: Name(s) and Company

Name	Company
R. Alonso, N. Krasnecky, C. Goldsmith and A. Barrio	ARCADIS- U.S., Inc.

ARCADIS

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal, NJ

Location: Area E, PICA 077

Well ID: E-2

Well Type: ☐ Monitoring ☐Other: _____

Well Finish: ☐ Stick Up ☐Flush Mount

Measuring Pt: ☐ Top of inner Casing ☐Other (specify): _____

Total Depth (ftbgs): 22.1 **Screened Interval (ftbgs):** _____

Well Casing: Diameter: 2" Material: PVC

Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 4-18-14 Time: 850

Weather Conditions: Cloudy + 45°F

Depth to groundwater at time of deployment: 5.87

Type of PDB used: ☐Lab Filled (Modified Trip Blank must be taken at time of deployment)

X Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

Dimensions of PDB: Length (in.) 18" Diameter (in.) 1.75"

Position of PDB weight: ☐Attached to bottom of PDB and suspended in well

☐Attached to bottom of deployment line and suspended in well

X Attached to bottom of deployment line and resting on bottom of well (preferred)

Retrieval (note: minimum deployment period is 2 weeks)

Date and Time of Retrieval: Date: 7-9-14 Time: 1425

Total # of days deployed: 82 days

Weather Conditions: Sunny + 85°F

Depth to groundwater at time of retrieval: ~~7.83~~ 7.57

Downhole Field Parameters Upon Retrieval:

Temp: 15.67 (mV) **ORP:** 221.1 **(mV)** **Water quality meter:** _____ **YSI 600**

pH: 4.85 **DO:** 0.06 **(mg/L)** **Serial #:** 16835

Notes/Observations:

Field Sampling Technician: Name(s) and Company

Name	Company
R. Alonso, N. Krasnecky, C. Goldsmith and A. Barrio	ARCADIS- U.S., Inc.

ARCADIS

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal, NJ

Location: Area E, PICA 077

Well ID: E-11WG-1

Well Type: ☒ Monitoring ☐ Other:

Well Finish: ☒ Stick Up ☐ Flush Mount

Measuring Pt: ☐ Top of inner Casing ☐ Other (specify):

Total Depth (ftbgs): 26.95 **Screened Interval (ftbgs):** 21.95'-26.95'

Well Casing: Diameter: 2" Material: PVC

Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 4-17-14 Time: 1455

Weather Conditions: ~~4-17-14~~ Sunny + 50°

Depth to groundwater at time of deployment: 3.26

Type of PDB used:

☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)

X Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

Dimensions of PDB: Length (in.) 18" Diameter (in.) 1.75"

Position of PDB weight:

☐ Attached to bottom of PDB and suspended in well

☐ Attached to bottom of deployment line and suspended in well

X Attached to bottom of deployment line and resting on bottom of well (preferred)

Retrieval (note: minimum deployment period is 2 weeks)

Date and Time of Retrieval: Date: 7-9-14 Time: 1415

Total # of days deployed: 82 days

Weather Conditions: Sunny + 85°F

Depth to groundwater at time of retrieval: 4.42

Downhole Field Parameters Upon Retrieval:

Temp: 14.45 (mV) **ORP:** 209.5 (mV) **Water quality meter:** _____ **YSI 600**

pH: 4.85 **DO:** 0.11 (mg/L) **Serial #:** 16835

Notes/Observations:

riser needs to be cut down!

Field Sampling Technician: Name(s) and Company

Name	Company
R. Alonso, N. Krasnecky, C. Goldsmith and A. Barrio	ARCADIS- U.S., Inc.

ARCADIS

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal, NJ
Location: Area E, PICA 077
Well ID: E-3WG-2

Well Type: ☒ Monitoring ☐ Other: _____
Well Finish: ☒ Stick Up ☐ Flush Mount
Measuring Pt: ☐ Top of inner Casing ☐ Other (specify): _____
Total Depth (ftbgs): 27.35 **Screened Interval (ftbgs):** 11.81'-16.81'
Well Casing: Diameter: 2" Material: PVC
Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 4-17-14 Time: 1445
Weather Conditions: Sunny +50°F
Depth to groundwater at time of deployment: 8.11
Type of PDB used: ☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
X Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

Dimensions of PDB: Length (in.) 18" Diameter (in.) 1.75"
Position of PDB weight: ☐ Attached to bottom of PDB and suspended in well
☐ Attached to bottom of deployment line and suspended in well
X Attached to bottom of deployment line and resting on bottom of well (preferred)

Retrieval (note: minimum deployment period is 2 weeks)

Date and Time of Retrieval: Date: 7-9-14 Time: 1410
Total # of days deployed: 82 days
Weather Conditions: Sunny +85°F
Depth to groundwater at time of retrieval: 4.18
Downhole Field Parameters Upon Retrieval:
Temp: 14.022 (mV) **ORP:** 190.2 (mV) **Water quality meter:** _____ **YSI 600**
pH: 4.87 **DO:** 0.07 (mg/L) **Serial #:** 16535

Notes/Observations:

riser needs to be cut down!

Field Sampling Technician: Name(s) and Company

Name	Company
R. Alonso, N. Krasnecky, C. Goldsmith and A. Barrio	ARCADIS- U.S., Inc.

ARCADIS

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal, NJ

Location: Area E, PICA 077

Well ID: E-70-4

Well Type: ☑ Monitoring ☐ Other: _____

Well Finish: ☑ Stick Up ☐ Flush Mount

Measuring Pt: ☐ Top of inner Casing ☐ Other (specify): _____

Total Depth (ftbgs): 28.75 **Screened Interval (ftbgs):** 23.79'-28.79'

Well Casing: Diameter: 2" Material: PVC

Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 7-17-14 Time: 1440

Weather Conditions: Sunny 90°F

Depth to groundwater at time of deployment: 9.82

Type of PDB used: ☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)

X Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

Dimensions of PDB: Length (in.) 24" Diameter (in.) 1.75"

Position of PDB weight: ☐ Attached to bottom of PDB and suspended in well

☐ Attached to bottom of deployment line and suspended in well

X Attached to bottom of deployment line and resting on bottom of well (preferred)

Retrieval (note: minimum deployment period is 2 weeks)

Date and Time of Retrieval: Date: 7-9-14 Time: 1400

Total # of days deployed: 82 days

Weather Conditions: Sunny 85°F

Depth to groundwater at time of retrieval: 5.97

Downhole Field Parameters Upon Retrieval:

Temp: 14.09 (mV) **ORP:** 214.8 (mV) **Water quality meter:** _____ **YSI 600**

pH: 4.99 **DO:** 0.06 (mg/L) **Serial #:** 16835

Notes/Observations:

DUP001( ) collected

Field Sampling Technician: Name(s) and Company

Name	Company
R. Alonso, N. Krasnecky, C. Goldsmith and A. Barrio	ARCADIS- U.S., Inc.

ARCADIS

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal, NJ

Location: Area E, PICA 077

Well ID: E-MW-12L

Well Type: ☐ Monitoring ☐ Other: _____

Well Finish: ☐ Stick Up ☐ Flush Mount

Measuring Pt: ☐ Top of inner Casing ☐ Other (specify): _____

Total Depth (ftbgs): 24.7 **Screened Interval (ftbgs):** 19.85'-24.85'

Well Casing: Diameter: 2" Material: PVC

Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 4-17-14 Time: 1430

Weather Conditions: Sunny 80°F

Depth to groundwater at time of deployment: 9.65

Type of PDB used:
☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
X Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

Dimensions of PDB: Length (in.) 18" Diameter (in.) 1.75"

Position of PDB weight:
☐ Attached to bottom of PDB and suspended in well
☐ Attached to bottom of deployment line and suspended in well
X Attached to bottom of deployment line and resting on bottom of well (preferred)

Retrieval (note: minimum deployment period is 2 weeks)

Date and Time of Retrieval: Date: 7-9-14 Time: 1355

Total # of days deployed: 82 days

Weather Conditions: Sunny 85°

Depth to groundwater at time of retrieval: 5.65

Downhole Field Parameters Upon Retrieval:

Temp: 14.94 (mV) **ORP:** 238.8 (mV) **Water quality meter:** _____ **YSI 600**

pH: 5.08 **DO:** 0.09 (mg/L) **Serial #:** 18835

Notes/Observations:

Field Sampling Technician: Name(s) and Company

Name	Company
R. Alonso, N. Krasnecky, C. Goldsmith and A. Barrio	ARCADIS- U.S., Inc.

ARCADIS

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal, NJ

Location: Area E, PICA 077

Well ID: E-MW-12H

Well Type: ☐ Monitoring ☐Other: _____

Well Finish: ☐ Stick Up ☐Flush Mount

Measuring Pt: ☐ Top of inner Casing ☐Other (specify): _____

Total Depth (ftbgs): 15.3 **Screened Interval (ftbgs):** 10.39'-15.39'

Well Casing: Diameter: 2" Material: PVC

Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 4-17-14 Time: 1420

Weather Conditions: Sunny & 50°F

Depth to groundwater at time of deployment: 5.55

Type of PDB used: ☐Lab Filled (Modified Trip Blank must be taken at time of deployment)

X Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

Dimensions of PDB: Length (in.) 18" Diameter (in.) 1.75"

Position of PDB weight: ☐Attached to bottom of PDB and suspended in well

☐Attached to bottom of deployment line and suspended in well

X Attached to bottom of deployment line and resting on bottom of well (preferred)

Retrieval (note: minimum deployment period is 2 weeks)

Date and Time of Retrieval: Date: 7-9-14 Time: 1350

Total # of days deployed: 82 days

Weather Conditions: Sunny + 85°F

Depth to groundwater at time of retrieval: 5.59

Downhole Field Parameters Upon Retrieval:

Temp: 16.22 (mV) **ORP:** 231.4 **(mV)** **Water quality meter:** _____ **YSI 600**

pH: 5.09 **DO:** 0.27 **(mg/L)** **Serial #:** 16835

Notes/Observations:

Field Sampling Technician: Name(s) and Company

Name	Company
R. Alonso, N. Krasnecky, C. Goldsmith and A. Barrio	ARCADIS- U.S., Inc.

ARCADIS

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal, NJ

Location: Area E, PICA 077

Well ID: E-1

Well Type: ☐ Monitoring ☐ Other: _____

Well Finish: ☐ Stick Up ☐ Flush Mount

Measuring Pt: ☐ Top of inner Casing ☐ Other (specify): _____

Total Depth (ftbgs): 19.15 **Screened Interval (ftbgs):** _____

Well Casing: Diameter: 2" Material: PVC

Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 4-17-14 Time: 1410

Weather Conditions: Sunny + 49°F

Depth to groundwater at time of deployment: 9.56

Type of PDB used:
☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
X Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

Dimensions of PDB: Length (in.) 18" Diameter (in.) 1.75"

Position of PDB weight:
☐ Attached to bottom of PDB and suspended in well
☐ Attached to bottom of deployment line and suspended in well
X Attached to bottom of deployment line and resting on bottom of well (preferred)

Retrieval (note: minimum deployment period is 2 weeks)

Date and Time of Retrieval: Date: 7-9-14 Time: 1340

Total # of days deployed: 82 days

Weather Conditions: Sunny + 85°F

Depth to groundwater at time of retrieval: 6.24

Downhole Field Parameters Upon Retrieval:

Temp: 15.90 (mV) **ORP:** 217.7 (mV) **Water quality meter:** _____ **YSI 600**

pH: 5.23 **DO:** 0.53 (mg/L) **Serial #:** 16835

Notes/Observations:

Field Sampling Technician: Name(s) and Company

Name	Company
R. Alonso, N. Krasnecky, C. Goldsmith and A. Barrio	ARCADIS- U.S., Inc.

ARCADIS

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal, NJ

Location: Area E, PICA 077

Well ID: E-95-3

Well Type: ☐ Monitoring ☐ Other: _____

Well Finish: ☐ Stick Up ☐ Flush Mount

Measuring Pt: ☐ Top of inner Casing ☐ Other (specify): _____

Total Depth (ftbgs): 19.65 **Screened Interval (ftbgs):** 9.7'-19.7'

Well Casing: Diameter: 2" Material: PVC

Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 4-17-14 Time: 1403

Weather Conditions: Sunny + 49°F

Depth to groundwater at time of deployment: 4.43

Type of PDB used: ☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)

X Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

Dimensions of PDB: Length (in.) 18" Diameter (in.) 1.75"

Position of PDB weight: ☐ Attached to bottom of PDB and suspended in well

☐ Attached to bottom of deployment line and suspended in well

X Attached to bottom of deployment line and resting on bottom of well (preferred)

Retrieval (note: minimum deployment period is 2 weeks)

Date and Time of Retrieval: Date: 7-9-14 Time: 1335

Total # of days deployed: 82 days

Weather Conditions: ~~620~~ Sunny + 80

Depth to groundwater at time of retrieval: 6.07

Downhole Field Parameters Upon Retrieval:

Temp: 17.72 (mV) **ORP:** 103.5 (mV) **Water quality meter:** _____ **YSI 600**

pH: 7.38 **DO:** 0.37 (mg/L) **Serial #:** 16835

Notes/Observations:

Field Sampling Technician: Name(s) and Company

Name	Company
R. Alonso, N. Krasnecky, C. Goldsmith and A. Barrio	ARCADIS- U.S., Inc.

ARCADIS

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal, NJ

Location: Area E, PICA 077

Well ID: E-82-1

Well Type: ☐ Monitoring ☐ Other: _____

Well Finish: ☐ Stick Up ☐ Flush Mount

Measuring Pt: ☐ Top of inner Casing ☐ Other (specify): _____

Total Depth (ftbgs): 18.9 **Screened Interval (ftbgs):** 14.5'-19.5'

Well Casing: Diameter: 2" Material: PVC

Well Screen: Diameter: 2"

Deployment

Date and Time of Deployment: Date: 4-18-14 Time: 0835

Weather Conditions: cloudy + 48°F

Depth to groundwater at time of deployment: 2.91

Type of PDB used:
☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
X Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

Dimensions of PDB: Length (in.) 18" Diameter (in.) 1.75"

Position of PDB weight:
☐ Attached to bottom of PDB and suspended in well
☐ Attached to bottom of deployment line and suspended in well
X Attached to bottom of deployment line and resting on bottom of well (preferred)

Retrieval (note: minimum deployment period is 2 weeks)

Date and Time of Retrieval: Date: 7-10-14 Time: ~~13~~ 1500

Total # of days deployed: 82 days

Weather Conditions: Sunny + 80

Depth to groundwater at time of retrieval: 8.55

Downhole Field Parameters Upon Retrieval:

Temp: 16.31 (mV) **ORP:** 19.9 **(mV)** **Water quality meter:** _____ **YSI 600**

pH: 7.69 **DO:** 0.82 **(mg/L)** **Serial #:** 16835

Notes/Observations:

Field Sampling Technician: Name(s) and Company

Name	Company
R. Alonso, N. Krasnecky, C. Goldsmith and A. Barrio	ARCADIS- U.S., Inc.

ARCADIS
Infrastructure, environment, facilities

SURFACE WATER SAMPLE COLLECTION LOG

Sample ID D-SW-5

Project Name and No. GP06PICA.LM14.3MD014

Date 7-9-14

Sampling Personnel NC/CG

Time 1440

Weather Sunny + 85

DESCRIPTION OF SAMPLE LOCATION:

Name of Water Body Green Pond Brook

Depth of Water 6"

Velocity medium slow

Other Comments

Substrate Description

Sample Location and Depth (ft) Off of First Street at affluient pipe on golf course across from bridge

Description of Nearby Vegetation Bushes

FIELD PARAMETERS:

Sample Method Bailer

Sample Description surface water

Temperature (°C/°F) 24.03

pH 6.28

Dissolved Oxygen 0.10

SC 0.609

Salinity ~~5.87~~ 0.29

Turb : 9.32 ntu

CONTAINER DESCRIPTION From _____ Lab ___X___ ARCADIS _____

Bottle Type	Analysis	Preservative
40 ml. glass vial	VOCs	HCL

TOTAL: 3

ARCADIS
Infrastructure, environment, facilities

SURFACE WATER SAMPLE COLLECTION LOG

Sample ID E-38SW-4

Project Name and No. GP06PICA.LM14.3MD014

Date 7-9-14

Sampling Personnel NC/CG

Time 1450

Weather Sunny + 85° F

DESCRIPTION OF SAMPLE LOCATION:

Name of Water Body Green Pond Brook

Depth of Water ~ ~~6 ft.~~ ~~.5 foot~~ 1.0-2.0 Velocity Slow

Other Comments

Substrate Description

Sample Location and Depth (ft) Off of South Brook Road

Description of Nearby Vegetation

FIELD PARAMETERS:

Sample Method Bailer

Sample Description surface water from S. ~~Brook~~ Green Brook

Temperature (°C/°F) 25.63

pH 6.97

Dissolved Oxygen 0.13

SC 0.657

Salinity 0.32

Turb = 3.41 ntu

CONTAINER DESCRIPTION From _____ Lab ___X___ ARCADIS _____

Bottle Type	Analysis	Preservative
40 ml. glass vial	VOCs	HCL

TOTAL: 3

ARCADIS
Infrastructure, environment, facilities

SURFACE WATER SAMPLE COLLECTION LOG

Sample ID E-38SW-1

Project Name and No. GP06PICA.LM14.3MD014

Date 7-9-14

Sampling Personnel NC/CG

Time 1500

Weather Sunny + 85°F

DESCRIPTION OF SAMPLE LOCATION:

Name of Water Body Green Pond Brook

Depth of Water 1.0'-2.0'

Velocity Slow

Other Comments

Substrate Description

Sample Location and Depth (ft) Off of South Brook Road

Description of Nearby Vegetation Trees, bushes, high weeds

FIELD PARAMETERS:

Sample Method Bailer

Sample Description Surface water at 38 SW-1 map location

Temperature (°C/°F) 24.94

pH 7.12

Dissolved Oxygen 0.14

SC 0.699

Salinity 0.34

Turb = 4.03 NTU

CONTAINER DESCRIPTION From _____ Lab ___X___ ARCADIS _____

Bottle Type	Analysis	Preservative
40 ml. glass vial	VOCs	HCL

TOTAL: 3

Appendix B

Analytical Data Reports
(Provided on CD)

Microbac

Laboratory Report Number: L14070607

Jace'que Powell
Arcadis U.S., Inc.
2929 Briarpark Dr
Houston, TX 77042

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

Laboratory Contact:
Stephanie Mossburg – Team Chemist/Data Specialist
(740) 373-4071
Stephanie.Mossburg@microbac.com

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on July 25 2014

David E. Vandenberg

David Vandenberg – Managing Director

State of Origin: NJ
Accrediting Authority: Department of Environmental Protection ID:OH004
QAPP: Microbac OVD

Microbac

Lab Report #: L14070607
Lab Project #: 2273.003
Project Name: ARDEC (PICATINNY ARSENAL)
Lab Contact: Stephanie Mossburg

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

There were no discrepancies.

Discrepancy	Resolution

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #	Temp Required?
0019669	H	4.0		1001892121510004575000770570706805	X
0011574	H	5.0		1001892121510004575000770567474470	X
0019289	H	5.0		1001892121510004575000770563336985	X

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	Were correct preservatives used? (water only)	Yes
11	Were pH ranges acceptable? (voa's excluded)	NA
12	Were VOA samples free of headspace (less than 6mm)?	Yes

Microbac

Lab Report #: L14070607
Lab Project #: 2273.003
Project Name: ARDEC (PICATINNY ARSENAL)
Lab Contact: Stephanie Mossburg

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
E-38-SW001(070914)	L14070607-01	07/09/2014 15:00	07/11/2014 10:37
E-38-SW004(070914)	L14070607-02	07/09/2014 14:50	07/11/2014 10:37
D-SW005(070914)	L14070607-03	07/09/2014 14:40	07/11/2014 10:37
E-80-MW003(070914)	L14070607-04	07/09/2014 14:30	07/11/2014 10:37
E-MW002(070914)	L14070607-05	07/09/2014 14:25	07/11/2014 10:37
E-11WG-MW001(070914)	L14070607-06	07/09/2014 14:15	07/11/2014 10:37
E-3WG-MW002(070914)	L14070607-07	07/09/2014 14:10	07/11/2014 10:37
E-70-MW004(070914)	L14070607-08	07/09/2014 14:00	07/11/2014 10:37
E-MW012L(070914)	L14070607-09	07/09/2014 13:55	07/11/2014 10:37
E-MW012H(070914)	L14070607-10	07/09/2014 13:50	07/11/2014 10:37
E-MW001(070914)	L14070607-11	07/09/2014 13:40	07/11/2014 10:37
E-95-MW003(070914)	L14070607-12	07/09/2014 13:35	07/11/2014 10:37
FB001(070914)	L14070607-13	07/09/2014 12:00	07/11/2014 10:37
TB1(9289)	L14070607-14	07/09/2014 16:00	07/11/2014 10:37
E-82-MW001(071014)	L14070607-15	07/10/2014 15:00	07/11/2014 10:37
TB1(9669)	L14070607-16	07/10/2014 16:00	07/11/2014 10:37

Microbac REPORT L14070607
PREPARED FOR Arcadis U.S., Inc.
WORK ID:

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1.0 Summary Data

1.1 Narratives

Login Number: L14070607
Department: Volatiles
Analyst: Anthony Canter

METHOD

Preparation SW-846 5030C/5035A

Analysis SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: Recoveries out of range were observed for the following analytes: trichlorofluoromethane, chloroethane, vinyl acetate, dichlorodifluoromethane. Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: Recoveries out of range were observed for the following analytes: Vinyl Acetate. Please see the applicable QC report for a detailed presentation of the failures.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Recoveries out of range were observed for the following analytes: 2,2-Dichloropropane. Please see the applicable QC report for a detailed presentation of the failures.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group (SDG), due to insufficient

volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac Laboratories recommends site specific MS/MSD samples to avoid possible data qualifications.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: Recoveries out of range were observed for the following analytes: Dibromofluoromethane. Please see the applicable QC report for a detailed presentation of the failures.

Other: None.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak. In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak. This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline. There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous. Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 86620
Approved By: Michael Albertson

1.2 Certificate of Analysis

Certificate of Analysis

Sample #:	L14070607-01	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	E-38-SW001(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/09/2014 19:50
Workgroup #:	WG484692	**Analyst:**	ADC	**Run Date:**	07/17/2014 22:54
Collect Date:	07/09/2014 15:00	**Dilution:**	1	**File ID:**	17M006958
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.742	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	0.333	J	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	0.304	J	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.0	86	118	
1,2-Dichloroethane-d4	93.1	80	120	
Toluene-d8	102	88	110	
4-Bromofluorobenzene	98.6	86	115	

J	The analyte was positively identified, but the quantitation was below the RL

Certificate of Analysis

U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-02	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	E-38-SW004(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/09/2014 19:50
Workgroup #:	WG484692	**Analyst:**	ADC	**Run Date:**	07/17/2014 23:14
Collect Date:	07/09/2014 14:50	**Dilution:**	1	**File ID:**	17M006959
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
cis-1,2-Dichloroethene	156-59-2	0.789	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	0.344	J	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	0.321	J	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.9	86	118	
1,2-Dichloroethane-d4	95.0	80	120	
Toluene-d8	103	88	110	

4-Bromofluorobenzene	101	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-03	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	D-SW005(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/09/2014 19:50
Workgroup #:	WG484692	**Analyst:**	ADC	**Run Date:**	07/17/2014 23:34
Collect Date:	07/09/2014 14:40	**Dilution:**	1	**File ID:**	17M006960
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.828	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	0.342	J	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	0.335	J	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	97.6	86	118	

1,2-Dichloroethane-d4	92.3	80	120	
Toluene-d8	101	88	110	
4-Bromofluorobenzene	101	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-04	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	E-80-MW003(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/09/2014 19:50
Workgroup #:	WG484692	**Analyst:**	ADC	**Run Date:**	07/17/2014 23:54
Collect Date:	07/09/2014 14:30	**Dilution:**	1	**File ID:**	17M006961
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	39.0		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	12.2		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	8.55		1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	0.259	J	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Certificate of Analysis

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.0	86	118	
1,2-Dichloroethane-d4	91.8	80	120	
Toluene-d8	101	88	110	
4-Bromofluorobenzene	99.2	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-05	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	E-MW002(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/09/2014 19:50
Workgroup #:	WG484692	**Analyst:**	ADC	**Run Date:**	07/18/2014 00:14
Collect Date:	07/09/2014 14:25	**Dilution:**	1	**File ID:**	17M006962
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	40.3		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	1.61		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	0.533	J	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	100	86	118	
1,2-Dichloroethane-d4	93.5	80	120	
Toluene-d8	104	88	110	
4-Bromofluorobenzene	105	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-06	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	E-11WG-MW001(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/27/2014 20:09
Workgroup #:	WG484736	**Analyst:**	ADC	**Run Date:**	07/17/2014 21:49
Collect Date:	07/09/2014 14:15	**Dilution:**	1	**File ID:**	11M02555
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	51.9		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7	0.145	J	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.184	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	1.72		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	3.50		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	4.32		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.434	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4	22.9		1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6	1.44		1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	10.2		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	0.548	J	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.5	86	118	
1,2-Dichloroethane-d4	100	80	120	
Toluene-d8	93.0	88	110	
4-Bromofluorobenzene	97.1	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-07	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	E-3WG-MW002(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/27/2014 20:09
Workgroup #:	WG484736	**Analyst:**	ADC	**Run Date:**	07/17/2014 22:21
Collect Date:	07/09/2014 14:10	**Dilution:**	1	**File ID:**	11M02556
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	53.3		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.182	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	1.31		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	3.70		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	36.1		1.00	0.250
trans-1,2-Dichloroethene	156-60-5	1.04		1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.355	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4	1.69		1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6	3.80		1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	2.04		1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	2.23		1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	96.3	86	118	
1,2-Dichloroethane-d4	98.4	80	120	
Toluene-d8	92.0	88	110	
4-Bromofluorobenzene	93.2	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-08	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	E-70-MW004(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/27/2014 20:09
Workgroup #:	WG484736	**Analyst:**	ADC	**Run Date:**	07/17/2014 22:52
Collect Date:	07/09/2014 14:00	**Dilution:**	1	**File ID:**	11M02557
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	56.8		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	6.40		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	1.70		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	2.65		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.427	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	4.57		1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.8	86	118	
1,2-Dichloroethane-d4	103	80	120	
Toluene-d8	93.6	88	110	
4-Bromofluorobenzene	95.9	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-09	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	E-MW012L(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/27/2014 20:09
Workgroup #:	WG484736	**Analyst:**	ADC	**Run Date:**	07/17/2014 23:24
Collect Date:	07/09/2014 13:55	**Dilution:**	1	**File ID:**	11M02558
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	54.0		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Chlorobenzene	108-90-7	0.343	J	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.314	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1	0.178	J	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.412	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.383	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4	3.00		1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	17.2		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	95.9	86	118	
1,2-Dichloroethane-d4	99.3	80	120	
Toluene-d8	92.0	88	110	
4-Bromofluorobenzene	93.7	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-10	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	E-MW012H(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/27/2014 20:09
Workgroup #:	WG484736	**Analyst:**	ADC	**Run Date:**	07/17/2014 23:56
Collect Date:	07/09/2014 13:50	**Dilution:**	1	**File ID:**	11M02559
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	53.7		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.193	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.813	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.341	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	6.20		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.4	86	118	
1,2-Dichloroethane-d4	99.1	80	120	
Toluene-d8	92.6	88	110	
4-Bromofluorobenzene	94.5	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-11	**PrePrep Method:**	N/A	**Instrument:**	HPMS9
Client ID:	E-MW001(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/26/2014 20:17
Workgroup #:	WG484906	**Analyst:**	FJB	**Run Date:**	07/19/2014 02:58
Collect Date:	07/09/2014 13:40	**Dilution:**	1	**File ID:**	9M964803
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	35.0		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	1.26		1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4	0.306	J	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	1.14		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	85.2	86	118	*
1,2-Dichloroethane-d4	81.3	80	120	
Toluene-d8	95.9	88	110	
4-Bromofluorobenzene	98.6	86	115	

*	Surrogate or spike compound out of range
J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-12	**PrePrep Method:**	N/A	**Instrument:**	HPMS9
Client ID:	E-95-MW003(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/26/2014 20:17
Workgroup #:	WG484906	**Analyst:**	FJB	**Run Date:**	07/19/2014 02:29
Collect Date:	07/09/2014 13:35	**Dilution:**	1	**File ID:**	9M964802
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	36.4		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.132	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	8.10		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	0.851	J	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	14.4		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4	94.6		1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6	13.2		1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	5.75		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	87.1	86	118	
1,2-Dichloroethane-d4	82.8	80	120	
Toluene-d8	100	88	110	
4-Bromofluorobenzene	103	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-13	**PrePrep Method:**	N/A	**Instrument:**	HPMS9
Client ID:	FB001(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/26/2014 20:17
Workgroup #:	WG484906	**Analyst:**	FJB	**Run Date:**	07/19/2014 01:30
Collect Date:	07/09/2014 12:00	**Dilution:**	1	**File ID:**	9M964800
Sample Tag:	01	**Units:**	ug/L		

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	4.70	J	10.0	2.50
Benzene	71-43-2	0.212	J	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3	0.314	J	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3	0.926	J	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.292	J	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6	0.256	J	1.00	0.250
m-,p-Xylene	179601-23-1	0.514	J	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	88.1	86	118	
1,2-Dichloroethane-d4	83.7	80	120	
Toluene-d8	101	88	110	
4-Bromofluorobenzene	102	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Certificate of Analysis

Sample #:	L14070607-14	**PrePrep Method:**	N/A	**Instrument:**	HPMS9
Client ID:	TB1(9289)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/26/2014 20:17
Workgroup #:	WG484906	**Analyst:**	FJB	**Run Date:**	07/19/2014 01:01
Collect Date:	07/09/2014 16:00	**Dilution:**	1	**File ID:**	9M964799
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	86.7	86	118	
1,2-Dichloroethane-d4	82.8	80	120	
Toluene-d8	103	88	110	
4-Bromofluorobenzene	103	86	115	

U	Not detected at or above adjusted sample detection limit

Certificate of Analysis

Sample #:	L14070607-15	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	E-82-MW001(071014)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/27/2014 20:09
Workgroup #:	WG484736	**Analyst:**	ADC	**Run Date:**	07/18/2014 00:28
Collect Date:	07/10/2014 15:00	**Dilution:**	1	**File ID:**	11M02560
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	50.1		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	2.14		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	13.7		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	41.0		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.366	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4	1.79		1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	1.86		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.1	86	118	
1,2-Dichloroethane-d4	97.9	80	120	
Toluene-d8	92.9	88	110	
4-Bromofluorobenzene	93.5	86	115	

J	The analyte was positively identified, but the quantitation was below the RL

Certificate of Analysis

U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-16	**PrePrep Method:**	N/A	**Instrument:**	HPMS9
Client ID:	TB1(9669)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/26/2014 20:17
Workgroup #:	WG484906	**Analyst:**	FJB	**Run Date:**	07/19/2014 00:32
Collect Date:	07/10/2014 16:00	**Dilution:**	1	**File ID:**	9M964798
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	86.7	86	118	
1,2-Dichloroethane-d4	82.5	80	120	
Toluene-d8	100	88	110	

4-Bromofluorobenzene	101	86	115	

U	Not detected at or above adjusted sample detection limit

2.0 Full Sample Data Package

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

Login Number: L14070607
Department: Volatiles
Analyst: Anthony Canter

METHOD

Preparation SW-846 5030C/5035A

Analysis SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: Recoveries out of range were observed for the following analytes: trichlorofluoromethane, chloroethane, vinyl acetate, dichlorodifluoromethane. Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: Recoveries out of range were observed for the following analytes: Vinyl Acetate. Please see the applicable QC report for a detailed presentation of the failures.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Recoveries out of range were observed for the following analytes: 2,2-Dichloropropane. Please see the applicable QC report for a detailed presentation of the failures.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group (SDG), due to insufficient

volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac Laboratories recommends site specific MS/MSD samples to avoid possible data qualifications.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: Recoveries out of range were observed for the following analytes: Dibromofluoromethane. Please see the applicable QC report for a detailed presentation of the failures.

Other: None.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak. In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak. This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline. There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous. Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 86620
Approved By: Michael Albertson

Certificate of Analysis

Sample #:	L14070607-01	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	E-38-SW001(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/09/2014 19:50
Workgroup #:	WG484692	**Analyst:**	ADC	**Run Date:**	07/17/2014 22:54
Collect Date:	07/09/2014 15:00	**Dilution:**	1	**File ID:**	17M006958
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.742	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	0.333	J	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	0.304	J	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.0	86	118	
1,2-Dichloroethane-d4	93.1	80	120	
Toluene-d8	102	88	110	
4-Bromofluorobenzene	98.6	86	115	

J	The analyte was positively identified, but the quantitation was below the RL

Certificate of Analysis

U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-02	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	E-38-SW004(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/09/2014 19:50
Workgroup #:	WG484692	**Analyst:**	ADC	**Run Date:**	07/17/2014 23:14
Collect Date:	07/09/2014 14:50	**Dilution:**	1	**File ID:**	17M006959
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
cis-1,2-Dichloroethene	156-59-2	0.789	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	0.344	J	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	0.321	J	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.9	86	118	
1,2-Dichloroethane-d4	95.0	80	120	
Toluene-d8	103	88	110	

Certificate of Analysis

4-Bromofluorobenzene	101	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-03	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	D-SW005(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/09/2014 19:50
Workgroup #:	WG484692	**Analyst:**	ADC	**Run Date:**	07/17/2014 23:34
Collect Date:	07/09/2014 14:40	**Dilution:**	1	**File ID:**	17M006960
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.828	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	0.342	J	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	0.335	J	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	97.6	86	118	

1,2-Dichloroethane-d4	92.3	80	120	
Toluene-d8	101	88	110	
4-Bromofluorobenzene	101	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-04	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	E-80-MW003(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/09/2014 19:50
Workgroup #:	WG484692	**Analyst:**	ADC	**Run Date:**	07/17/2014 23:54
Collect Date:	07/09/2014 14:30	**Dilution:**	1	**File ID:**	17M006961
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	39.0		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	12.2		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	8.55		1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	0.259	J	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Certificate of Analysis

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.0	86	118	
1,2-Dichloroethane-d4	91.8	80	120	
Toluene-d8	101	88	110	
4-Bromofluorobenzene	99.2	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-05	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	E-MW002(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/09/2014 19:50
Workgroup #:	WG484692	**Analyst:**	ADC	**Run Date:**	07/18/2014 00:14
Collect Date:	07/09/2014 14:25	**Dilution:**	1	**File ID:**	17M006962
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	40.3		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125

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Analyte	CAS #	Result	Qual	RL	MDL
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	1.61		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	0.533	J	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	100	86	118	
1,2-Dichloroethane-d4	93.5	80	120	
Toluene-d8	104	88	110	
4-Bromofluorobenzene	105	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-06	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	E-11WG-MW001(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/27/2014 20:09
Workgroup #:	WG484736	**Analyst:**	ADC	**Run Date:**	07/17/2014 21:49
Collect Date:	07/09/2014 14:15	**Dilution:**	1	**File ID:**	11M02555
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	51.9		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7	0.145	J	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.184	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00

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Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	1.72		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	3.50		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	4.32		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.434	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4	22.9		1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6	1.44		1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	10.2		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250

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Analyte	CAS #	Result	Qual	RL	MDL
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	0.548	J	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.5	86	118	
1,2-Dichloroethane-d4	100	80	120	
Toluene-d8	93.0	88	110	
4-Bromofluorobenzene	97.1	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-07	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	E-3WG-MW002(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/27/2014 20:09
Workgroup #:	WG484736	**Analyst:**	ADC	**Run Date:**	07/17/2014 22:21
Collect Date:	07/09/2014 14:10	**Dilution:**	1	**File ID:**	11M02556
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	53.3		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.182	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	1.31		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	3.70		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	36.1		1.00	0.250
trans-1,2-Dichloroethene	156-60-5	1.04		1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.355	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4	1.69		1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6	3.80		1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	2.04		1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	2.23		1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	96.3	86	118	
1,2-Dichloroethane-d4	98.4	80	120	
Toluene-d8	92.0	88	110	
4-Bromofluorobenzene	93.2	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-08	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	E-70-MW004(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/27/2014 20:09
Workgroup #:	WG484736	**Analyst:**	ADC	**Run Date:**	07/17/2014 22:52
Collect Date:	07/09/2014 14:00	**Dilution:**	1	**File ID:**	11M02557
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	56.8		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	6.40		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	1.70		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	2.65		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.427	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	4.57		1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.8	86	118	
1,2-Dichloroethane-d4	103	80	120	
Toluene-d8	93.6	88	110	
4-Bromofluorobenzene	95.9	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-09	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	E-MW012L(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/27/2014 20:09
Workgroup #:	WG484736	**Analyst:**	ADC	**Run Date:**	07/17/2014 23:24
Collect Date:	07/09/2014 13:55	**Dilution:**	1	**File ID:**	11M02558
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	54.0		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Chlorobenzene	108-90-7	0.343	J	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.314	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1	0.178	J	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.412	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.383	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4	3.00		1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	17.2		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	95.9	86	118	
1,2-Dichloroethane-d4	99.3	80	120	
Toluene-d8	92.0	88	110	
4-Bromofluorobenzene	93.7	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-10	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	E-MW012H(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/27/2014 20:09
Workgroup #:	WG484736	**Analyst:**	ADC	**Run Date:**	07/17/2014 23:56
Collect Date:	07/09/2014 13:50	**Dilution:**	1	**File ID:**	11M02559
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	53.7		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.193	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.813	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.341	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	6.20		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.4	86	118	
1,2-Dichloroethane-d4	99.1	80	120	
Toluene-d8	92.6	88	110	
4-Bromofluorobenzene	94.5	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-11	**PrePrep Method:**	N/A	**Instrument:**	HPMS9
Client ID:	E-MW001(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/26/2014 20:17
Workgroup #:	WG484906	**Analyst:**	FJB	**Run Date:**	07/19/2014 02:58
Collect Date:	07/09/2014 13:40	**Dilution:**	1	**File ID:**	9M964803
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	35.0		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	1.26		1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4	0.306	J	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	1.14		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	85.2	86	118	*
1,2-Dichloroethane-d4	81.3	80	120	
Toluene-d8	95.9	88	110	
4-Bromofluorobenzene	98.6	86	115	

*	Surrogate or spike compound out of range
J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-12	**PrePrep Method:**	N/A	**Instrument:**	HPMS9
Client ID:	E-95-MW003(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/26/2014 20:17
Workgroup #:	WG484906	**Analyst:**	FJB	**Run Date:**	07/19/2014 02:29
Collect Date:	07/09/2014 13:35	**Dilution:**	1	**File ID:**	9M964802
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	36.4		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.132	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	8.10		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	0.851	J	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	14.4		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4	94.6		1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6	13.2		1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	5.75		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	87.1	86	118	
1,2-Dichloroethane-d4	82.8	80	120	
Toluene-d8	100	88	110	
4-Bromofluorobenzene	103	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-13	**PrePrep Method:**	N/A	**Instrument:**	HPMS9
Client ID:	FB001(070914)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/26/2014 20:17
Workgroup #:	WG484906	**Analyst:**	FJB	**Run Date:**	07/19/2014 01:30
Collect Date:	07/09/2014 12:00	**Dilution:**	1	**File ID:**	9M964800
Sample Tag:	01	**Units:**	ug/L		

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	4.70	J	10.0	2.50
Benzene	71-43-2	0.212	J	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3	0.314	J	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3	0.926	J	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.292	J	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6	0.256	J	1.00	0.250
m-,p-Xylene	179601-23-1	0.514	J	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	88.1	86	118	
1,2-Dichloroethane-d4	83.7	80	120	
Toluene-d8	101	88	110	
4-Bromofluorobenzene	102	86	115	

J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Certificate of Analysis

Sample #:	L14070607-14	**PrePrep Method:**	N/A	**Instrument:**	HPMS9
Client ID:	TB1(9289)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/26/2014 20:17
Workgroup #:	WG484906	**Analyst:**	FJB	**Run Date:**	07/19/2014 01:01
Collect Date:	07/09/2014 16:00	**Dilution:**	1	**File ID:**	9M964799
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250

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Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	86.7	86	118	
1,2-Dichloroethane-d4	82.8	80	120	
Toluene-d8	103	88	110	
4-Bromofluorobenzene	103	86	115	

U	Not detected at or above adjusted sample detection limit

Certificate of Analysis

Sample #:	L14070607-15	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	E-82-MW001(071014)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/27/2014 20:09
Workgroup #:	WG484736	**Analyst:**	ADC	**Run Date:**	07/18/2014 00:28
Collect Date:	07/10/2014 15:00	**Dilution:**	1	**File ID:**	11M02560
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	50.1		10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	2.14		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	13.7		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	41.0		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250

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Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.366	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4	1.79		1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	1.86		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.1	86	118	
1,2-Dichloroethane-d4	97.9	80	120	
Toluene-d8	92.9	88	110	
4-Bromofluorobenzene	93.5	86	115	

J	The analyte was positively identified, but the quantitation was below the RL

Certificate of Analysis

U	Not detected at or above adjusted sample detection limit

Sample #:	L14070607-16	**PrePrep Method:**	N/A	**Instrument:**	HPMS9
Client ID:	TB1(9669)	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	06/26/2014 20:17
Workgroup #:	WG484906	**Analyst:**	FJB	**Run Date:**	07/19/2014 00:32
Collect Date:	07/10/2014 16:00	**Dilution:**	1	**File ID:**	9M964798
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500

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Analyte	CAS #	Result	Qual	RL	MDL
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	86.7	86	118	
1,2-Dichloroethane-d4	82.5	80	120	
Toluene-d8	100	88	110	

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4-Bromofluorobenzene	101	86	115	

U	Not detected at or above adjusted sample detection limit

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100
RF = Calculated Response Factor	**1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Vs = Purge volume of sample (mL)	**10**
Vn = Nominal purge volume of sample (mL) (10.0 mL)	**10**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Ws = Weight of sample purged (g)	**5**
Wn = Nominal purge weight (g) (5.0 g)	**5**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

Dry weight correction:

Percent solids (PCT_S)	**50**
Cd = (Cx) (100)/PCT_S	**254.4856**

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

y = 86550/593147 = 0.1459

Step 3: Solve for x

x = (y - b)/m = [(0.1459 -(- 0.00642)]/ 0.213 = 0.7152

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.7152) = 17.88

Example Spreadsheet Calculation:

Slope from curve, m:	**0.213**
Intercept from curve, b:	**-0.00642**
Area of analyte, Ax:	**86550**
Area of Internal Standard , Ais:	**593147**
Concentration of IS, Cis	**25.00**
Response Ratio:	**0.145917**
Amount Ratio:	**0.715195**
Concentration:	**17.87988**
Units of Internal Standard:	**ug/L**

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**-0.00629**	
Value of B from plot:	**0.511**	
Value of C from plot:	**-0.0276**	
Area of unknown from quantitation report:	**293821**	
Area of IS from quantiation report:	**784848**	
Response ratio, y:	**0.374367**	
C - y:	**-0.40197**	
Root 1 - Computed amount ratio , X1:	**80.44567**	
Root 2 - Computed amount ratio , X2:	**0.794396**	use this solution
Concentration of IS, Cis:	**25.00**	
Concentration of analyte, Cx:	**19.86**	ug/L

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 081913
Analyst1: ADC Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 16
Method: OVAP SOP: MSV01/PAT01 Rev: 0
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
Maintenance Log ID: 47153

Internal Standard: STD59587 Surrogate Standard: STD59627
CCV: STD59677 LCS: STD59678 MS/MSD: STD59678

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG441888(ICAL)

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
9M957893	WG441887-01 50ng BFB STD	NA	1	1		08/19/13 15:08
9M957894	WG441887-02 50.0ug/L STD 8260	NA	1	1	STD59582	08/19/13 15:33
9M957895	WG441888-01 5.0ug/L A9STD 8260	NA	1	1	STD59338	08/19/13 16:23
9M957896	WG441888-02 20.0ug/L A9STD 8260	NA	1	1	STD59338	08/19/13 16:53
9M957897	WG441888-03 50.0ug/L A9STD 8260	NA	1	1	STD59338	08/19/13 17:22
9M957898	WG441888-04 100.0ug/L A9STD 8260	NA	1	1	STD59338	08/19/13 17:51
9M957899	WG441888-05 200.0ug/L A9STD 8260	NA	1	1	STD59338	08/19/13 18:20
9M957900	WG441888-06 300.0ug/L A9STD 8260	NA	1	1	STD59338	08/19/13 18:48
9M957901	WG441888-07 400.0ug/L A9STD 8260	NA	1	1	STD59338	08/19/13 19:17
9M957902	WG441888-08 500.0ug/L A9STD 8260	NA	1	1	STD59338	08/19/13 19:46
9M957903	RINSE	NA	1	1		08/19/13 20:16
9M957904	WG441888-09 100.0ug/L A9 ALT SRC 826	NA	1	1	STD59238	08/19/13 20:45

Approved: August 27, 2013

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS17 Dataset: 101313
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 17
Method: 624 SOP: MSV10 Rev: 10
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
Maintenance Log ID: 47805

Internal Standard: STD60409 Surrogate Standard: STD60842
CCV: STD60752 LCS: STD60749 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG448463

Comments: Rerun MDLs for isobutanol and cyclohexanone.

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
17M000183	WG448462-01 50NG BFB STD 8260	NA	1	1	STD60561	10/13/13 16:29
17M000184	WG448462-01 50NG BFB STD 8260	NA	1	1	STD60561	10/13/13 16:45
17M000185	WG448466-02 50ug/L WATER STD 8260	NA	1	1	STD60687	10/13/13 17:20
17M000186	WG448462-02 5ug/L APPIX STD	NA	1	1	STD60752	10/13/13 17:48
17M000187	WG448462-03 20ug/L APPIX STD	NA	1	1	STD60752	10/13/13 18:15
17M000188	WG448462-04 50ug/L APPIX STD	NA	1	1	STD60752	10/13/13 18:43
17M000189	WG448462-05 100ug/L APPIX STD	NA	1	1	STD60752	10/13/13 19:11
17M000190	WG448462-06 200ug/L APPIX STD	NA	1	1	STD60752	10/13/13 19:39
17M000191	WG448462-07 300ug/L APPIX STD	NA	1	1	STD60752	10/13/13 20:07
17M000192	WG448462-08 400ug/L APPIX STD	NA	1	1	STD60752	10/13/13 20:35
17M000193	WG448462-09 500ug/L APPIX STD	NA	1	1	STD60752	10/13/13 21:03
17M000194	RINSE	NA	1	1		10/13/13 21:31
17M000195	WG448462-10 100ug/L APPIX ALT SRC	NA	1	1	STD60749	10/13/13 22:00
17M000196	RINSE	NA	1	1		10/13/13 22:27
17M000197	L13100005-12 BLANK	NA	1	1		10/13/13 22:55
17M000198	L13100005-13 BLANK	NA	1	1		10/13/13 23:23
17M000199	L13100005-01 MDL	NA	1	1	STD60752	10/13/13 23:51
17M000200	L13100005-02 MDL	NA	1	1	STD60752	10/14/13 00:18
17M000201	L13100005-03 MDL	NA	1	1	STD60752	10/14/13 00:47
17M000202	L13100005-04 MDL	NA	1	1	STD60752	10/14/13 01:14
17M000203	L13100005-05 MDL	NA	1	1	STD60752	10/14/13 01:43
17M000204	L13100005-06 MDL	NA	1	1	STD60752	10/14/13 02:11
17M000205	L13100005-07 MDL	NA	1	1	STD60752	10/14/13 02:39

Approved: October 18, 2013

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 120413
Analyst1: FJB Analyst2: NA
Method: 8260B SOP: MSV1 Rev: 19
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 16

Maintenance Log ID: 48563

Internal Standard: STD61448 Surrogate Standard: STD61328
CCV: NA LCS: STD61663 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG455130

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M97408	WG455130-01 BFB 50ng A9FOO	NA	1	1	STD61161	12/04/13 15:09
11M97409	RINSE	NA	1	1		12/04/13 15:34
11M97410	WG455130-02 5ug/L STD A9FOO	NA	1	1	STD61356	12/04/13 16:06
11M97411	WG455130-03 20ug/L STD A9FOO	NA	1	1	STD61356	12/04/13 16:38
11M97412	WG455130-04 50ug/L STD A9FOO	NA	1	1	STD61356	12/04/13 17:10
11M97413	WG455130-05 100ug/L STD A9FOO	NA	1	1	STD61356	12/04/13 17:41
11M97414	WG455130-06 200ug/L STD A9FOO	NA	1	1	STD61356	12/04/13 18:13
11M97415	WG455130-07 300ug/L STD A9FOO	NA	1	1	STD61356	12/04/13 18:44
11M97416	WG455130-08 400ug/L STD A9FOO	NA	1	1	STD61356	12/04/13 19:15
11M97417	WG455130-09 500ug/L STD A9FOO	NA	1	1	STD61356	12/04/13 19:47
11M97418	RINSE	NA	1	1		12/04/13 20:18
11M97419	WG455130-10 100ug/L ALT SRC A9FOO	NA	1	1	STD61663	12/04/13 20:50

Approved: December 19, 2013

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 062614
Analyst1: ADC Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 19
Method: 624 SOP: MSV01 Rev: 12
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 16
Maintenance Log ID: 50760

Internal Standard: STD65027 Surrogate Standard: STD65028
CCV: STD65039 LCS: STD65074 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG482030 (ICAL)

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
9M964345	WG482030-01 50ng BFB STD 8260	NA	1	1	STD64936	06/26/14 14:45
9M964346	WG482030-01 50ng BFB STD 8260	NA	1	1	STD64936	06/26/14 14:58
9M964347	RINSE	NA	1	1	STD65039	06/26/14 15:26
9M964348	WG482030-02 0.3ug/L STD 8260	NA	1	1	STD65039	06/26/14 15:55
9M964349	WG482030-03 0.4ug/L STD 8260	NA	1	1	STD65039	06/26/14 16:24
9M964350	WG482030-04 1.0ug/L STD 8260	NA	1	1	STD65039	06/26/14 16:53
9M964351	WG482030-05 2.0ug/L STD 8260	NA	1	1	STD65039	06/26/14 17:22
9M964352	WG482030-06 5.0ug/L STD 8260	NA	1	1	STD65039	06/26/14 17:51
9M964353	WG482030-07 20.0ug/L STD 8260	NA	1	1	STD65039	06/26/14 18:20
9M964354	WG482030-08 50.0ug/L STD 8260	NA	1	1	STD65039	06/26/14 18:50
9M964355	WG482030-09 100.0ug/L STD 8260	NA	1	1	STD65039	06/26/14 19:19
9M964356	WG482030-10 200.0ug/L STD 8260	NA	1	1	STD65039	06/26/14 19:48
9M964357	WG482030-11 300.0ug/L STD 8260	NA	1	1	STD65039	06/26/14 20:17
9M964358	RINSE	NA	1	1		06/26/14 20:47
9M964359	WG482030-12 50.0ug/L ALTSRC 8260	NA	1	1	STD65074	06/26/14 21:16
9M964360	RINSE	NA	1	1		06/26/14 21:45

Approved: July 01, 2014

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 062714
Analyst1: FJB Analyst2: NA
Method: 8260B SOP: MSV01 / OVAP MSV01 Rev: 19 / 0
Method: 5030B/5030C/5035A SOP: PAT01 / OVAP PAT01 Rev: 16 / 0
Method: 624 SOP: MSV10 Rev: 12
Maintenance Log ID: 50758

Internal Standard: STD65075 Surrogate Standard: STD64815
CCV: NA LCS: STD65074 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG482009

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M02142	BFB CHECK	NA	1	1	STD64936	06/27/14 11:23
11M02143	BFB FIL 2 RETUNED	NA	1	1	STD64936	06/27/14 12:01
11M02144	BFB CHECK	NA	1	1	STD64936	06/27/14 12:34
11M02145	BFB CHECK	NA	1	1	STD64936	06/27/14 12:53
11M02146	BFB CHECK	NA	1	1	STD64936	06/27/14 13:41
11M02147	BFB CHECK	NA	1	1	STD64936	06/27/14 13:54
11M02148	WG482009-01 BFB 50ng 8260	NA	1	1	STD64936	06/27/14 14:07
11M02149	WG482009-02 0.3ug/L STD 8260	NA	1	1	STD65120	06/27/14 14:53
11M02150	WG482009-03 0.4ug/L STD 8260	NA	1	1	STD65120	06/27/14 15:29
11M02151	WG482009-04 1ug/L STD 8260	NA	1	1	STD65120	06/27/14 16:07
11M02152	WG482009-02 0.3ug/L STD 8260	NA	1	1	STD65120	06/27/14 16:37
11M02153	WG482009-05 2ug/L STD 8260	NA	1	1	STD65120	06/27/14 17:08
11M02154	WG482009-06 5ug/L STD 8260	NA	1	1	STD65120	06/27/14 17:38
11M02155	WG482009-07 20ug/L STD 8260	NA	1	1	STD65120	06/27/14 18:08
11M02156	WG482009-08 50ug/L STD 8260	NA	1	1	STD65120	06/27/14 18:38
11M02157	WG482009-09 100ug/L STD 8260	NA	1	1	STD65120	06/27/14 19:08
11M02158	WG482009-10 200ug/L STD 8260	NA	1	1	STD65120	06/27/14 19:38
11M02159	WG482009-11 300ug/L STD 8260	NA	1	1	STD65120	06/27/14 20:09
11M02160	RINSE	NA	1	1		06/27/14 21:03
11M02161	WG482009-12 50ug/L ALT SRC 8260	NA	1	1	STD65074	06/27/14 21:34
11M02162	RINSE	NA	1	1		06/27/14 22:04

Comments

Seq.	Rerun	Dil.	Reason	Analytes
8	X			
File ID: 11M02149				
Came out higher than the 0.4ppb. Maybe the instrument needed a run to equilibrate.				

Approved: June 30, 2014

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS17 Dataset: 070914
Analyst1: ADC Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 19
Method: 5030C SOP: PAT01 Rev: 16
Method: 624 SOP: MSV10 Rev: 14
Maintenance Log ID: 50915

Internal Standard: STD65075 Surrogate Standard: STD65139
CCV: STD65138 LCS: STD65397 MS/MSD: STD65397

Column 1 ID: RTX-VMS Column 2 ID: NA
Workgroups: WG483481 (ICAL)

Comments: Several BFB injections due to instrument tuning.

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
17M006657	BFB	NA	1	1	STD64405	07/09/14 09:47
17M006658	BFB	NA	1	1	STD64405	07/09/14 10:53
17M006659	BFB	NA	1	1	STD64405	07/09/14 11:21
17M006660	BFB	NA	1	1	STD64405	07/09/14 13:02
17M006661	BFB	NA	1	1	STD64405	07/09/14 13:09
17M006662	BFB	NA	1	1	STD64405	07/09/14 15:04
17M006663	BFB	NA	1	1	STD64405	07/09/14 15:19
17M006664	BFB	NA	1	1	STD64405	07/09/14 15:37
17M006665	WG483481-01 50ng BFB 8260	NA	1	1	STD64405	07/09/14 16:09
17M006666	RINSE	NA	1	1		07/09/14 16:34
17M006667	WG483481-02 0.3ug/L 8260	NA	1	1	STD65138	07/09/14 16:53
17M006668	WG483481-03 0.4ug/L 8260	NA	1	1	STD65138	07/09/14 17:13
17M006669	WG483481-04 1.0ug/L 8260	NA	1	1	STD65138	07/09/14 17:33
17M006670	WG483481-05 2.0ug/L 8260	NA	1	1	STD65138	07/09/14 17:52
17M006671	WG483481-06 5.0ug/L 8260	NA	1	1	STD65138	07/09/14 18:12
17M006672	WG483481-07 20.0ug/L 8260	NA	1	1	STD65138	07/09/14 18:32
17M006673	WG483481-08 50.0ug/L 8260	NA	1	1	STD65138	07/09/14 18:51
17M006674	WG483481-09 100.0ug/L 8260	NA	1	1	STD65138	07/09/14 19:11
17M006675	WG483481-10 200.0ug/L 8260	NA	1	1	STD65138	07/09/14 19:31
17M006676	WG483481-11 300.0ug/L 8260	NA	1	1	STD65138	07/09/14 19:50
17M006677	RINSE	NA	1	1		07/09/14 20:10
17M006678	WG483481-12 50ug/L ALT SRC 8260	NA	1	1	STD65143	07/09/14 20:30

Comments

Seq.	Rerun	Dil.	Reason	Analytes
11				
File ID: 17M006667				
dnr				

Approved: July 17, 2014

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS17 Dataset: 071714
Analyst1: ADC Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 19
Method: 5030C SOP: PAT01 Rev: 16
Method: 624 SOP: MSV10 Rev: 14
Maintenance Log ID: 51048

Internal Standard: STD65075 Surrogate Standard: STD65139
CCV: STD65138 LCS: STD65511 MS/MSD: STD65511

Column 1 ID: RTX-VMS Column 2 ID: NA
Workgroups: WG484595, WG484692

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
17M006924a	WG484589-01 50ng BFB 8260	NA	1	1	STD64405	07/17/14 11:47
17M006925	WG484589-01 50ng BFB 8260	NA	1	1	STD64405	07/17/14 11:59
17M006926	WG484589-01 50ng BFB 8260	NA	1	1	STD64405	07/17/14 12:22
17M006927	WG484589-02 50.0ug/L 8260	NA	1	1	STD65138	07/17/14 12:42
17M006928	RINSE	NA	1	1		07/17/14 13:05
17M006929	WG484595-01 VBLK 07/16 8260	NA	1	1		07/17/14 13:25
17M006930	WG484595-02 20ug/L LCS 8260	NA	1	1	STD65511	07/17/14 13:44
17M006931	WG484595-03 20ug/L LCSDUP 8260	NA	1	1	STD65511	07/17/14 14:04
17M006932	L14070736-08 B 200X 826-TC 00	NA	17	200		07/17/14 14:24
17M006933	L14070735-01 B 100X 826-TC D1	NA	17	100		07/17/14 14:43
17M006934	L14070429-07 A 826-SPE	<2	1	1		07/17/14 15:03
17M006935	L14070430-06 A 826-SPE	<2	1	1		07/17/14 15:22
17M006936	L14070497-01 A 826-LOW	<2	1	1		07/17/14 15:42
17M006937	L14070497-02 A 826-LOW	<2	1	1		07/17/14 16:02
17M006938	L14070497-03 A 826-LOW	<2	1	1		07/17/14 16:21
17M006939	L14070497-04 A 826-LOW	<2	1	1		07/17/14 16:41
17M006940	L14070497-05 A 826-LOW	<2	1	1		07/17/14 17:01
17M006941	L14070429-01 A 826-SPE	<2	1	1		07/17/14 17:20
17M006942	L14070429-02 A 826-SPE	<2	1	1		07/17/14 17:40
17M006943	L14070429-04 A 826-SPE	<2	1	1		07/17/14 18:00
17M006944	L14070429-05 A 5X 826-SPE	<2	1	5		07/17/14 18:19
17M006945	L14070429-06 A 826-SPE	<2	1	1		07/17/14 18:39
17M006946	L14070430-02 A 826-SPE	<2	1	1		07/17/14 18:59
17M006947	L14070430-03 A 10X 826-SPE	<2	1	10		07/17/14 19:18
17M006948	L14070430-05 A 5X 826-SPE	<2	1	5		07/17/14 19:38
17M006949	L14070505-02 A 2.5X 826-SPE	<2	1	2.5		07/17/14 19:57
17M006950	L14070505-03 A 10X 826-SPE	<2	1	10		07/17/14 20:17
17M006951	L14070505-01 A 5X 826-SPE	<2	1	5		07/17/14 20:37
17M006952	RINSE	NA	1	1		07/17/14 20:56
17M006953	WG484692-01 VBLK 0717 8260	NA	1	1		07/17/14 21:16
17M006954	WG484692-02 20ug/L LCS 8260	NA	1	1	STD65511	07/17/14 21:36
17M006955	WG484692-03 20ug/L LCSDUP 8260	NA	1	1	STD65511	07/17/14 21:55
17M006956	RINSE	NA	1	1		07/17/14 22:15
17M006957	L14070505-04 A 826-SPE	<2	1	1		07/17/14 22:35

Approved: July 23, 2014

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Instrument Run Log

Instrument: HPMS17 Dataset: 071714
Analyst1: ADC Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 19
Method: 5030C SOP: PAT01 Rev: 16
Method: 624 SOP: MSV10 Rev: 14
Maintenance Log ID: 51048

Internal Standard: STD65075 Surrogate Standard: STD65139
CCV: STD65138 LCS: STD65511 MS/MSD: STD65511

Column 1 ID: RTX-VMS Column 2 ID: NA
Workgroups: WG484595, WG484692

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
17M006958	L14070607-01 A 826-LOW	<2	1	1		07/17/14 22:54
17M006959	L14070607-02 A 826-LOW	<2	1	1		07/17/14 23:14
17M006960	L14070607-03 A 826-LOW	<2	1	1		07/17/14 23:34
17M006961	L14070607-04 A 826-LOW	<2	1	1		07/17/14 23:54
17M006962	L14070607-05 A 826-LOW	<2	1	1		07/18/14 00:14
17M006963	RINSE	NA	1	1		07/18/14 00:34
17M006964	RINSE	NA	1	1		07/18/14 00:53
17M006965	RINSE	NA	1	1		07/18/14 01:13

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1	X			
File ID: 17M006924a				
2	X			
File ID: 17M006925				
	change septa			
11	X	1	Carry-over contamination	
File ID: 17M006934				
17	X	1		
File ID: 17M006940				
	Retention time shift due to Atomx problem.			
21	X	50	Over Calibration Range	tce
File ID: 17M006944				
22	X	1	Carry-over contamination	
File ID: 17M006945				
23	X	1	Carry-over contamination	
File ID: 17M006946				
26	X	1	Analyzed too dilute	
File ID: 17M006949				
27	X	100	Over Calibration Range	11dce, 11dca

Approved: July 23, 2014

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Microbac Laboratories Inc.

Instrument Run Log

Instrument:	HPMS17	Dataset:	071714		
Analyst1:	ADC	Analyst2:	NA		
Method:	8260B	SOP:	MSV01	Rev:	19
Method:	5030C	SOP:	PAT01	Rev:	16
Method:	624	SOP:	MSV10	Rev:	14
Maintenance Log ID:	51048				

Internal Standard: STD65075 Surrogate Standard: STD65139

CCV: STD65138 LCS: STD65511 MS/MSD: STD65511

Column 1 ID: RTX-VMS Column 2 ID: NA

Workgroups: WG484595, WG484692

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 17M006950				

Approved: July 23, 2014

Page: 3

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 071714
Analyst1: ADC Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 19
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 16

Maintenance Log ID: 51063

Internal Standard: STD65075 Surrogate Standard: STD65121
CCV: STD65120 LCS: STD65396 MS/MSD: STD65396

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG484736

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M02542	WG484735-01 BFB 50ng 8260	NA	1	1	STD65391	07/17/14 15:00
11M02543	WG484735-02 50ug/L CCV 8260	NA	1	1	STD65120	07/17/14 15:25
11M02544	WG483XXX-01 100ug/L CCV A9	NA	1	1	STD65294	07/17/14 15:57
11M02545	WG484736-01 VBLK0717 BLANK 8260	NA	1	1		07/17/14 16:29
11M02546	WG484736-02 20ug/L LCS 8260	NA	1	1	STD65396	07/17/14 17:01
11M02547	L14070762-05 A MS 826-LOW	<2	1	1	STD65396	07/17/14 17:33
11M02548	L14070762-06 A MSD 826-LOW	<2	1	1	STD65396	07/17/14 18:05
11M02549	L14070826-02 B 100X 826-SPE D1	<2	1	100		07/17/14 18:37
11M02550	L14070607-16 A 826-LOW	<2	1	1		07/17/14 19:09
11M02551	L14070607-13 A 826-LOW	<2	1	1		07/17/14 19:41
11M02552	L14070607-14 A 826-LOW	<2	1	1		07/17/14 20:13
11M02553	L14070490-08 B 826-SPE	5	1	1		07/17/14 20:45
11M02554	L14070762-04 A 826-LOW	<2	1	1		07/17/14 21:17
11M02555	L14070607-06 A 826-LOW	<2	1	1		07/17/14 21:49
11M02556	L14070607-07 A 826-LOW	<2	1	1		07/17/14 22:21
11M02557	L14070607-08 A 826-LOW	<2	1	1		07/17/14 22:52
11M02558	L14070607-09 A 826-LOW	<2	1	1		07/17/14 23:24
11M02559	L14070607-10 A 826-LOW	<2	1	1		07/17/14 23:56
11M02560	L14070607-15 A 826-LOW	<2	1	1		07/18/14 00:28
11M02561	L14070762-02 A 826-LOW	<2	1	1		07/18/14 01:00
11M02562	L14070762-03 A 826-LOW	<2	1	1		07/18/14 01:32
11M02563	L14070762-01 A 2.5X 826-LOW	<2	1	2.5		07/18/14 02:03
11M02564	L14070607-11 A 826-LOW	<2	1	1		07/18/14 02:35
11M02565	L14070607-12 A 826-LOW	<2	1	1		07/18/14 03:07
11M02566	RINSE	NA	1	1		07/18/14 03:39
11M02567	RINSE	NA	1	1		07/18/14 04:11
11M02568	RINSE	NA	1	1		07/18/14 04:42
11M02569	RINSE	NA	1	1		07/18/14 11:38
11M02570	RINSE	NA	1	1		07/18/14 12:34

Comments

Seq.	Rerun	Dil.	Reason	Analytes
8	X	2000	Over Calibration Range	mecl

Approved: July 24, 2014

Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 071714
Analyst1: ADC Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 19
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 16

Maintenance Log ID: 51063

Internal Standard: STD65075 Surrogate Standard: STD65121
CCV: STD65120 LCS: STD65396 MS/MSD: STD65396

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG484736

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 11M02549				
not diluted enough for mecl.				
9	X	1	Carry-over contamination	
File ID: 11M02550				
10	X	1	Carry-over contamination	
File ID: 11M02551				
11	X	1	Carry-over contamination	
File ID: 11M02552				
12				
File ID: 11M02553				
report naphthalene which carried over in the first run. this run has methylene chloride carryover.				
23	X	1	Carry-over contamination	
File ID: 11M02564				
24	X	1	Missed Tune	
File ID: 11M02565				

Approved: July 24, 2014

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 071814
Analyst1: FJB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 19
Method: 5030C/5035A SOP: PAT01 Rev: 16

Maintenance Log ID: 51062

Internal Standard: NA Surrogate Standard: NA
CCV: STD65120 LCS: STD65450 MS/MSD: STD65450

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG484906, WG484907

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
9M964781	WG484905-01 BFB 50ng 8260	NA	1	1	STD64936	07/18/14 16:13
9M964782	WG484905-02 50ug/L CCV 8260	NA	1	1	STD65120	07/18/14 16:39
9M964783	WG484907-01 EXT BLK 100X 8260 5g/10m	NA	7	50		07/18/14 17:12
9M964784	WG484906-01 VBLK0718 BLANK 8260	NA	1	1		07/18/14 17:41
9M964785	L14070142-01 A 826-REF-BLK	NA	1	1		07/18/14 18:11
9M964786	L14070142-02 A 826-REF-BLK	NA	1	1		07/18/14 18:40
9M964787	WG484907-01 EXT BLK 100X 8260 5g/10m	NA	7	50		07/18/14 19:10
9M964788	L14070142-03 A 826-REF-BLK	NA	1	1		07/18/14 19:39
9M964789	L14070142-04 A 826-REF-BLK	NA	1	1		07/18/14 20:08
9M964790	L14070142-05 A 826-REF-BLK	NA	1	1		07/18/14 20:38
9M964791	WG484907-02 EXT LCS 100X 8260 5g/10m	NA	7	50		07/18/14 21:07
9M964792	WG484906-02 20ug/L LCS 8260	NA	1	1	STD65450	07/18/14 21:36
9M964793	WG484906-03 20ug/L LCS DUP 8260	NA	1	1	STD65450	07/18/14 22:06
9M964794	WG484575-02 MS 5.26g/10mL	NA	7	50		07/18/14 22:35
9M964795	WG484575-03 MSD 5.27g/10mL	NA	7	50		07/18/14 23:04
9M964796	WG484575-01 L14070924-01 REF 100X 5.2	NA	7	50		07/18/14 23:33
9M964797	L14070865-01 B 10X 826-TC	NA	17	10		07/19/14 00:02
9M964798	L14070607-16 TB B 826-LOW	<2	1	1		07/19/14 00:32
9M964799	L14070607-14 TB B 826-LOW	<2	1	1		07/19/14 01:01
9M964800	L14070607-13 FB B 826-LOW	<2	1	1		07/19/14 01:30
9M964801	L14070762-30 FB A 826-LOW	<2	1	1		07/19/14 02:00
9M964802	L14070607-12 B 826-LOW	<2	1	1		07/19/14 02:29
9M964803	L14070607-11 B 826-LOW	<2	1	1		07/19/14 02:58
9M964804	L14070762-29 A 826-LOW	<2	1	1		07/19/14 03:27
9M964805	RINSE	NA	1	1		07/19/14 03:56
9M964806	L14070242-01 A 8260	5	1	1		07/19/14 04:25
9M964807	WG484906-04 624 BLANK	NA	1	1		07/19/14 04:54
9M964808	L14071052-01 TB A 624-SPE	<2	2	1		07/19/14 05:23
9M964809	L14071079-03 TB A 624-SPE	5	2	1		07/19/14 05:53
9M964810	L14071004-03 A 624-SPE	6	2	1		07/19/14 06:22
9M964811	L14071052-02 A 624-SPE	5	2	1		07/19/14 06:51
9M964812	L14071079-01 A 624-SPE	6	2	1		07/19/14 07:20
9M964813	L14071079-02 A 624-SPE	6	2	1		07/19/14 07:49
9M964814	CCV	NA	1	1		07/19/14 08:19

Approved: July 24, 2014

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 071814
Analyst1: FJB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 19
Method: 5030C/5035A SOP: PAT01 Rev: 16

Maintenance Log ID: 51062

Internal Standard: NA Surrogate Standard: NA
CCV: STD65120 LCS: STD65450 MS/MSD: STD65450

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG484906, WG484907

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
9M964815	RINSE	NA	1	1		07/19/14 08:48

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3				
File ID: 9M964783				
	DNR RR			
17				
File ID: 9M964797				
	dnr rr			
33				
File ID: 9M964813				
	rr 10x tce			

Approved: July 24, 2014

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Microbac Laboratories Inc.

Data Checklist

Date: 19-AUG-2013
Analyst: ADC
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: WG441888
Runlog ID: 55275
Analytical Workgroups:

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	NA
TCL's	NA
Surrogates	NA
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	ADC
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
26-AUG-2013

Secondary Reviewer:
27-AUG-2013

CHECKLIST1 - Modified 03/05/2008
Generated: AUG-27-2013 08:13:37

Microbac Laboratories Inc.

Data Checklist

Date: 13-OCT-2013
Analyst: MES
Analyst: NA
Method: 8260/624
Instrument: HPMS17
Curve Workgroup: NA
Runlog ID: 56448
Analytical Workgroups: WG448463

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	NA
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	NA
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer: 17-OCT-2013

Secondary Reviewer: 18-OCT-2013

CHECKLIST1 - Modified 03/05/2008
Generated: OCT-18-2013 08:13:54

Microbac Laboratories Inc.

Data Checklist

Date: 04-DEC-2013
Analyst: FJB
Analyst: NA
Method: 8260B
Instrument: HPMS11
Curve Workgroup: NA
Runlog ID: 57820
Analytical Workgroups: WG455130

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	FJB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer: 18-DEC-2013

Secondary Reviewer: 19-DEC-2013

CHECKLIST1 - Modified 03/05/2008
Generated: DEC-19-2013 08:33:22

Microbac Laboratories Inc.

Data Checklist

Date: 26-JUN-2014
Analyst: ADC
Analyst: NA
Method: 8260/624
Instrument: HPMS9
Curve Workgroup: WG482030
Runlog ID: 61921
Analytical Workgroups:

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	NA
TCL's	NA
Surrogates	NA
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	NA
Results Reporting/Data Qualifiers	NA
KOBRA Workgroup Data	NA
Check for Completeness	X
Primary Reviewer	ADC
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
30-JUN-2014

Secondary Reviewer:
01-JUL-2014

CHECKLIST1 - Modified 03/05/2008
Generated: JUL-01-2014 10:06:58

Microbac Laboratories Inc.

Data Checklist

Date: 27-JUN-2014
Analyst: FJB
Analyst: NA
Method: 8260B/624
Instrument: HPMS11
Curve Workgroup: NA
Runlog ID: 61915
Analytical Workgroups: WG482009

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	X
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	FJB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer: 30-JUN-2014

Secondary Reviewer: 30-JUN-2014

CHECKLIST1 - Modified 03/05/2008
Generated: JUN-30-2014 15:52:09

Microbac Laboratories Inc.

Data Checklist

Date: 09-JUL-2014
Analyst: ADC
Analyst: NA
Method: 8260
Instrument: HPMS17
Curve Workgroup: WG483481
Runlog ID: 62154
Analytical Workgroups:

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	ADC
Secondary Reviewer	FJB
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
14-JUL-2014

Secondary Reviewer:
17-JUL-2014

CHECKLIST1 - Modified 03/05/2008
Generated: JUL-17-2014 09:46:00

Microbac Laboratories Inc.

Data Checklist

Date: 17-JUL-2014
Analyst: ADC
Analyst: NA
Method: 8260B
Instrument: HPMS17
Curve Workgroup: NA
Runlog ID: 62342
Analytical Workgroups: WG484595

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	FJB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	FJB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer: 23-JUL-2014

Secondary Reviewer: 23-JUL-2014

CHECKLIST1 - Modified 03/05/2008
Generated: JUL-23-2014 12:41:17

Microbac Laboratories Inc.

Data Checklist

Date: 17-JUL-2014
Analyst: ADC
Analyst: NA
Method: 8260B
Instrument: HPMS11
Curve Workgroup: NA
Runlog ID: 62388
Analytical Workgroups: WG484736

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	FJB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	FJB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer: 24-JUL-2014

Secondary Reviewer: 24-JUL-2014

CHECKLIST1 - Modified 03/05/2008
Generated: JUL-24-2014 11:25:07

Microbac Laboratories Inc.

Data Checklist

Date: 18-JUL-2014
Analyst: FJB
Analyst: NA
Method: 8260/624
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 62386
Analytical Workgroups: WG484906, 484907

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	FJB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer: 24-JUL-2014

Secondary Reviewer: 24-JUL-2014

CHECKLIST1 - Modified 03/05/2008
Generated: JUL-24-2014 08:41:40

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B

AAB#: WG484692

Login Number: L14070607

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
E-38-SW001(070914)	01	07/09/14					07/17/2014	8.3	14		07/17/14	8.3	14	
E-38-SW004(070914)	02	07/09/14					07/17/2014	8.4	14		07/17/14	8.4	14	
D-SW005(070914)	03	07/09/14					07/17/2014	8.4	14		07/17/14	8.4	14	
E-80-MW003(070914)	04	07/09/14					07/17/2014	8.4	14		07/17/14	8.4	14	
E-MW002(070914)	05	07/09/14					07/18/2014	8.4	14		07/18/14	8.4	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 3676693
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B

AAB#: WG484736

Login Number: L14070607

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
E-11WG-MW001(070914)	06	07/09/14					07/17/2014	8.3	14		07/17/14	8.3	14	
E-3WG-MW002(070914)	07	07/09/14					07/17/2014	8.3	14		07/17/14	8.3	14	
E-70-MW004(070914)	08	07/09/14					07/17/2014	8.4	14		07/17/14	8.4	14	
E-MW012L(070914)	09	07/09/14					07/17/2014	8.4	14		07/17/14	8.4	14	
E-MW012H(070914)	10	07/09/14					07/17/2014	8.4	14		07/17/14	8.4	14	
E-82-MW001(071014)	15	07/10/14					07/18/2014	7.4	14		07/18/14	7.4	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 3676693
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B

AAB#: WG484906

Login Number: L14070607

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
E-MW001(070914)	11	07/09/14					07/19/2014	9.6	14		07/19/14	9.6	14	
E-95-MW003(070914)	12	07/09/14					07/19/2014	9.5	14		07/19/14	9.5	14	
FB001(070914)	13	07/09/14					07/19/2014	9.6	14		07/19/14	9.6	14	
TB1(9289)	14	07/09/14					07/19/2014	9.4	14		07/19/14	9.4	14	
TB1(9669)	16	07/10/14					07/19/2014	8.4	14		07/19/14	8.4	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 3676693
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L14070607
Instrument Id: HPMS17
Workgroup (AAB#): WG484692

Method: 8260
CAL ID: HPMS17-09-JUL-14
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L14070607-01	1.00	01	93.1	99.0	98.6	102
L14070607-02	1.00	01	95.0	99.9	101	103
L14070607-03	1.00	01	92.3	97.6	101	101
L14070607-04	1.00	01	91.8	99.0	99.2	101
L14070607-05	1.00	01	93.5	100	105	104
WG484692-01	1.00	01	95.3	101	110	105
WG484692-02	1.00	01	94.0	102	98.6	104
WG484692-03	1.00	01	93.7	101	95.9	101

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 3676699
Report generated: 07/25/2014 08:28

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L14070607
Instrument Id: HPMS9
Workgroup (AAB#): WG484906

Method: 8260
CAL ID: HPMS9-26-JUN-14
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L14070607-11	1.00	01	81.3	85.2	98.6	95.9
L14070607-12	1.00	01	82.8	87.1	103	100
L14070607-13	1.00	01	83.7	88.1	102	101
L14070607-14	1.00	01	82.8	86.7	103	103
L14070607-16	1.00	01	82.5	86.7	101	100
WG484906-01	1.00	01	85.2	87.9	99.5	101
WG484906-02	1.00	01	86.6	88.7	101	102
WG484906-03	1.00	01	87.3	88.9	99.2	101
WG484906-04	1.00	01	84.3	86.2	101	100

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 3676699
Report generated: 07/25/2014 08:28

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L14070607
Instrument Id: HPMS11
Workgroup (AAB#): WG484736

Method: 8260
CAL ID: HPMS11-27-JUN-14
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L14070607-06	1.00	01	100	98.5	97.1	93.0
L14070607-07	1.00	01	98.4	96.3	93.2	92.0
L14070607-08	1.00	01	103	99.8	95.9	93.6
L14070607-09	1.00	01	99.3	95.9	93.7	92.0
L14070607-10	1.00	01	99.1	98.4	94.5	92.6
L14070607-15	1.00	01	97.9	98.1	93.5	92.9
WG484736-01	1.00	01	96.1	96.3	97.8	94.3
WG484736-02	1.00	01	99.2	99.1	91.5	91.5

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 3676699
Report generated: 07/25/2014 08:28

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L14070607
Blank File ID: 11M02545
Prep Date: 07/17/14 16:29
Analyzed Date: 07/17/14 16:29
Analyst: ADC

Work Group: WG484736
Blank Sample ID: WG484736-01
Instrument ID: HPMS11
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG484736-02	11M02546	07/17/14 17:01	01
E-11WG-MW001(070914)	L14070607-06	11M02555	07/17/14 21:49	01
E-3WG-MW002(070914)	L14070607-07	11M02556	07/17/14 22:21	01
E-70-MW004(070914)	L14070607-08	11M02557	07/17/14 22:52	01
E-MW012L(070914)	L14070607-09	11M02558	07/17/14 23:24	01
E-MW012H(070914)	L14070607-10	11M02559	07/17/14 23:56	01
E-82-MW001(071014)	L14070607-15	11M02560	07/18/14 00:28	01

Report Name: BLANK_SUMMARY
PDF File ID: 3676694
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L14070607
Blank File ID: 17M006953
Prep Date: 07/17/14 21:16
Analyzed Date: 07/17/14 21:16
Analyst: ADC

Work Group: WG484692
Blank Sample ID: WG484692-01
Instrument ID: HPMS17
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG484692-02	17M006954	07/17/14 21:36	01
LCS2	WG484692-03	17M006955	07/17/14 21:55	01
E-38-SW001(070914)	L14070607-01	17M006958	07/17/14 22:54	01
E-38-SW004(070914)	L14070607-02	17M006959	07/17/14 23:14	01
D-SW005(070914)	L14070607-03	17M006960	07/17/14 23:34	01
E-80-MW003(070914)	L14070607-04	17M006961	07/17/14 23:54	01
E-MW002(070914)	L14070607-05	17M006962	07/18/14 00:14	01

Report Name: BLANK_SUMMARY
PDF File ID: 3676694
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L14070607
Blank File ID: 9M964784
Prep Date: 07/18/14 17:41
Analyzed Date: 07/18/14 17:41
Analyst: FJB

Work Group: WG484906
Blank Sample ID: WG484906-01
Instrument ID: HPMS9
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG484906-02	9M964792	07/18/14 21:36	01
LCS2	WG484906-03	9M964793	07/18/14 22:06	01
TB1(9669)	L14070607-16	9M964798	07/19/14 00:32	01
TB1(9289)	L14070607-14	9M964799	07/19/14 01:01	01
FB001(070914)	L14070607-13	9M964800	07/19/14 01:30	01
E-95-MW003(070914)	L14070607-12	9M964802	07/19/14 02:29	01
E-MW001(070914)	L14070607-11	9M964803	07/19/14 02:58	01

Report Name: BLANK_SUMMARY
PDF File ID: 3676694
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L14070607 Prep Date: 07/17/14 16:29 Sample ID: WG484736-01
Instrument ID: HPMS11 Run Date: 07/17/14 16:29 Prep Method: 5030B/5030C/503
File ID: 11M02545 Analyst: ADC Method: 8260B
Workgroup (AAB#): WG484736 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS11-27-JUN-14

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	10.0	1	U
Benzene	0.125	1.00	1.00	1	U
Bromobenzene	0.125	1.00	1.00	1	U
Bromochloromethane	0.200	1.00	1.00	1	U
Bromodichloromethane	0.250	1.00	1.00	1	U
Bromoform	0.500	1.00	1.00	1	U
Bromomethane	0.500	1.00	1.00	1	U
2-Butanone	2.50	10.0	10.0	1	U
n-Butylbenzene	0.250	1.00	1.00	1	U
sec-Butylbenzene	0.250	1.00	1.00	1	U
tert-Butylbenzene	0.250	1.00	1.00	1	U
Carbon disulfide	0.500	1.00	1.00	1	U
Carbon tetrachloride	0.250	1.00	1.00	1	U
Chlorobenzene	0.125	1.00	1.00	1	U
Chlorodibromomethane	0.250	1.00	1.00	1	U
Chloroethane	0.500	1.00	1.00	1	U
2-Chloroethyl vinyl ether	2.00	10.0	10.0	1	U
Chloroform	0.125	1.00	1.00	1	U
Chloromethane	0.500	1.00	1.00	1	U
2-Chlorotoluene	0.125	1.00	1.00	1	U
4-Chlorotoluene	0.250	1.00	1.00	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	5.00	1	U
1,2-Dibromoethane	0.250	1.00	1.00	1	U
Dibromomethane	0.250	1.00	1.00	1	U
1,2-Dichlorobenzene	0.125	1.00	1.00	1	U
1,3-Dichlorobenzene	0.250	1.00	1.00	1	U
1,4-Dichlorobenzene	0.125	1.00	1.00	1	U
Dichlorodifluoromethane	0.250	1.00	1.00	1	U
1,1-Dichloroethane	0.125	1.00	1.00	1	U
1,2-Dichloroethane	0.250	1.00	1.00	1	U
1,1-Dichloroethene	0.500	1.00	1.00	1	U
cis-1,2-Dichloroethene	0.250	1.00	1.00	1	U
trans-1,2-Dichloroethene	0.250	1.00	1.00	1	U
1,2-Dichloropropane	0.200	1.00	1.00	1	U
1,3-Dichloropropane	0.200	1.00	1.00	1	U
2,2-Dichloropropane	0.250	1.00	1.00	1	U
cis-1,3-Dichloropropene	0.250	1.00	1.00	1	U
trans-1,3-Dichloropropene	0.500	1.00	1.00	1	U
1,1-Dichloropropene	0.250	1.00	1.00	1	U
Ethylbenzene	0.250	1.00	1.00	1	U
2-Hexanone	2.50	10.0	10.0	1	U
Hexachlorobutadiene	0.250	1.00	1.00	1	U

Report Name: BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L14070607 Prep Date: 07/17/14 16:29 Sample ID: WG484736-01
Instrument ID: HPMS11 Run Date: 07/17/14 16:29 Prep Method: 5030B/5030C/503
File ID: 11M02545 Analyst: ADC Method: 8260B
Workgroup (AAB#): WG484736 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS11-27-JUN-14

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	1.00	1	U
p-Isopropyltoluene	0.250	1.00	1.00	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Methylene chloride	0.250	5.00	0.608	1	J
Naphthalene	0.200	1.00	1.00	1	U
n-Propylbenzene	0.125	1.00	1.00	1	U
Styrene	0.125	1.00	1.00	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	1.00	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	1.00	1	U
Tetrachloroethene	0.250	1.00	1.00	1	U
Toluene	0.250	1.00	1.00	1	U
1,2,3-Trichlorobenzene	0.150	1.00	1.00	1	U
1,2,4-Trichlorobenzene	0.200	1.00	1.00	1	U
1,1,1-Trichloroethane	0.250	1.00	1.00	1	U
1,1,2-Trichloroethane	0.250	1.00	1.00	1	U
Trichloroethene	0.250	1.00	1.00	1	U
Trichlorofluoromethane	0.250	1.00	1.00	1	U
1,2,3-Trichloropropane	0.500	1.00	1.00	1	U
1,2,4-Trimethylbenzene	0.250	1.00	1.00	1	U
1,3,5-Trimethylbenzene	0.250	1.00	1.00	1	U
Vinyl acetate	2.50	10.0	10.0	1	U
Vinyl chloride	0.250	1.00	1.00	1	U
o-Xylene	0.250	1.00	1.00	1	U
m-,p-Xylene	0.500	1.00	1.00	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	96.3	86 - 118	PASS
1,2-Dichloroethane-d4	96.1	80 - 120	PASS
Toluene-d8	94.3	88 - 110	PASS
4-Bromofluorobenzene	97.8	86 - 115	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 3676695
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L14070607 Prep Date: 07/17/14 21:16 Sample ID: WG484692-01
Instrument ID: HPMS17 Run Date: 07/17/14 21:16 Prep Method: 5030B/5030C/503
File ID: 17M006953 Analyst: ADC Method: 8260B
Workgroup (AAB#): WG484692 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS17-09-JUL-14

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	10.0	1	U
Benzene	0.125	1.00	1.00	1	U
Bromobenzene	0.125	1.00	1.00	1	U
Bromochloromethane	0.200	1.00	1.00	1	U
Bromodichloromethane	0.250	1.00	1.00	1	U
Bromoform	0.500	1.00	1.00	1	U
Bromomethane	0.500	1.00	1.00	1	U
2-Butanone	2.50	10.0	10.0	1	U
n-Butylbenzene	0.250	1.00	1.00	1	U
sec-Butylbenzene	0.250	1.00	1.00	1	U
tert-Butylbenzene	0.250	1.00	1.00	1	U
Carbon disulfide	0.500	1.00	1.00	1	U
Carbon tetrachloride	0.250	1.00	1.00	1	U
Chlorobenzene	0.125	1.00	1.00	1	U
Chlorodibromomethane	0.250	1.00	1.00	1	U
Chloroethane	0.500	1.00	1.00	1	U
2-Chloroethyl vinyl ether	2.00	10.0	10.0	1	U
Chloroform	0.125	1.00	1.00	1	U
Chloromethane	0.500	1.00	1.00	1	U
2-Chlorotoluene	0.125	1.00	1.00	1	U
4-Chlorotoluene	0.250	1.00	1.00	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	5.00	1	U
1,2-Dibromoethane	0.250	1.00	1.00	1	U
Dibromomethane	0.250	1.00	1.00	1	U
1,2-Dichlorobenzene	0.125	1.00	1.00	1	U
1,3-Dichlorobenzene	0.250	1.00	1.00	1	U
1,4-Dichlorobenzene	0.125	1.00	1.00	1	U
Dichlorodifluoromethane	0.250	1.00	1.00	1	U
1,1-Dichloroethane	0.125	1.00	1.00	1	U
1,2-Dichloroethane	0.250	1.00	1.00	1	U
1,1-Dichloroethene	0.500	1.00	1.00	1	U
cis-1,2-Dichloroethene	0.250	1.00	1.00	1	U
trans-1,2-Dichloroethene	0.250	1.00	1.00	1	U
1,2-Dichloropropane	0.200	1.00	1.00	1	U
1,3-Dichloropropane	0.200	1.00	1.00	1	U
2,2-Dichloropropane	0.250	1.00	1.00	1	U
cis-1,3-Dichloropropene	0.250	1.00	1.00	1	U
trans-1,3-Dichloropropene	0.500	1.00	1.00	1	U
1,1-Dichloropropene	0.250	1.00	1.00	1	U
Ethylbenzene	0.250	1.00	1.00	1	U
2-Hexanone	2.50	10.0	10.0	1	U
Hexachlorobutadiene	0.250	1.00	1.00	1	U

Report Name: BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L14070607 Prep Date: 07/17/14 21:16 Sample ID: WG484692-01
Instrument ID: HPMS17 Run Date: 07/17/14 21:16 Prep Method: 5030B/5030C/503
File ID: 17M006953 Analyst: ADC Method: 8260B
Workgroup (AAB#): WG484692 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS17-09-JUL-14

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	1.00	1	U
p-Isopropyltoluene	0.250	1.00	1.00	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Methylene chloride	0.250	5.00	5.00	1	U
Naphthalene	0.200	1.00	1.00	1	U
n-Propylbenzene	0.125	1.00	1.00	1	U
Styrene	0.125	1.00	1.00	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	1.00	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	1.00	1	U
Tetrachloroethene	0.250	1.00	1.00	1	U
Toluene	0.250	1.00	1.00	1	U
1,2,3-Trichlorobenzene	0.150	1.00	1.00	1	U
1,2,4-Trichlorobenzene	0.200	1.00	1.00	1	U
1,1,1-Trichloroethane	0.250	1.00	1.00	1	U
1,1,2-Trichloroethane	0.250	1.00	1.00	1	U
Trichloroethene	0.250	1.00	1.00	1	U
Trichlorofluoromethane	0.250	1.00	1.00	1	U
1,2,3-Trichloropropane	0.500	1.00	1.00	1	U
1,2,4-Trimethylbenzene	0.250	1.00	1.00	1	U
1,3,5-Trimethylbenzene	0.250	1.00	1.00	1	U
Vinyl acetate	2.50	10.0	10.0	1	U
Vinyl chloride	0.250	1.00	1.00	1	U
o-Xylene	0.250	1.00	1.00	1	U
m-,p-Xylene	0.500	1.00	1.00	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	101	86 - 118	PASS
1,2-Dichloroethane-d4	95.3	80 - 120	PASS
Toluene-d8	105	88 - 110	PASS
4-Bromofluorobenzene	110	86 - 115	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 3676695
25-JUL-2014 08:27

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L14070607 Prep Date: 07/18/14 17:41 Sample ID: WG484906-01
Instrument ID: HPMS9 Run Date: 07/18/14 17:41 Prep Method: 5030B/5030C/503
File ID: 9M964784 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG484906 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS9-26-JUN-14

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	10.0	1	U
Benzene	0.125	1.00	1.00	1	U
Bromobenzene	0.125	1.00	1.00	1	U
Bromochloromethane	0.200	1.00	1.00	1	U
Bromodichloromethane	0.250	1.00	1.00	1	U
Bromoform	0.500	1.00	1.00	1	U
Bromomethane	0.500	1.00	1.00	1	U
2-Butanone	2.50	10.0	10.0	1	U
n-Butylbenzene	0.250	1.00	1.00	1	U
sec-Butylbenzene	0.250	1.00	1.00	1	U
tert-Butylbenzene	0.250	1.00	1.00	1	U
Carbon disulfide	0.500	1.00	1.00	1	U
Carbon tetrachloride	0.250	1.00	1.00	1	U
Chlorobenzene	0.125	1.00	1.00	1	U
Chlorodibromomethane	0.250	1.00	1.00	1	U
Chloroethane	0.500	1.00	1.00	1	U
2-Chloroethyl vinyl ether	2.00	10.0	10.0	1	U
Chloroform	0.125	1.00	1.00	1	U
Chloromethane	0.500	1.00	1.00	1	U
2-Chlorotoluene	0.125	1.00	1.00	1	U
4-Chlorotoluene	0.250	1.00	1.00	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	5.00	1	U
1,2-Dibromoethane	0.250	1.00	1.00	1	U
Dibromomethane	0.250	1.00	1.00	1	U
1,2-Dichlorobenzene	0.125	1.00	1.00	1	U
1,3-Dichlorobenzene	0.250	1.00	1.00	1	U
1,4-Dichlorobenzene	0.125	1.00	1.00	1	U
Dichlorodifluoromethane	0.250	1.00	1.00	1	U
1,1-Dichloroethane	0.125	1.00	1.00	1	U
1,2-Dichloroethane	0.250	1.00	1.00	1	U
1,1-Dichloroethene	0.500	1.00	1.00	1	U
cis-1,2-Dichloroethene	0.250	1.00	1.00	1	U
trans-1,2-Dichloroethene	0.250	1.00	1.00	1	U
1,2-Dichloropropane	0.200	1.00	1.00	1	U
1,3-Dichloropropane	0.200	1.00	1.00	1	U
2,2-Dichloropropane	0.250	1.00	1.00	1	U
cis-1,3-Dichloropropene	0.250	1.00	1.00	1	U
trans-1,3-Dichloropropene	0.500	1.00	1.00	1	U
1,1-Dichloropropene	0.250	1.00	1.00	1	U
Ethylbenzene	0.250	1.00	1.00	1	U
2-Hexanone	2.50	10.0	10.0	1	U
Hexachlorobutadiene	0.250	1.00	1.00	1	U

Report Name:BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L14070607 Prep Date: 07/18/14 17:41 Sample ID: WG484906-01
Instrument ID: HPMS9 Run Date: 07/18/14 17:41 Prep Method: 5030B/5030C/503
File ID: 9M964784 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG484906 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS9-26-JUN-14

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	1.00	1	U
p-Isopropyltoluene	0.250	1.00	1.00	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Methylene chloride	0.250	5.00	5.00	1	U
Naphthalene	0.200	1.00	1.00	1	U
n-Propylbenzene	0.125	1.00	1.00	1	U
Styrene	0.125	1.00	1.00	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	1.00	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	1.00	1	U
Tetrachloroethene	0.250	1.00	1.00	1	U
Toluene	0.250	1.00	1.00	1	U
1,2,3-Trichlorobenzene	0.150	1.00	1.00	1	U
1,2,4-Trichlorobenzene	0.200	1.00	1.00	1	U
1,1,1-Trichloroethane	0.250	1.00	1.00	1	U
1,1,2-Trichloroethane	0.250	1.00	1.00	1	U
Trichloroethene	0.250	1.00	1.00	1	U
Trichlorofluoromethane	0.250	1.00	1.00	1	U
1,2,3-Trichloropropane	0.500	1.00	1.00	1	U
1,2,4-Trimethylbenzene	0.250	1.00	1.00	1	U
1,3,5-Trimethylbenzene	0.250	1.00	1.00	1	U
Vinyl acetate	2.50	10.0	10.0	1	U
Vinyl chloride	0.250	1.00	1.00	1	U
o-Xylene	0.250	1.00	1.00	1	U
m-,p-Xylene	0.500	1.00	1.00	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	87.9	86 - 118	PASS
1,2-Dichloroethane-d4	85.2	80 - 120	PASS
Toluene-d8	101	88 - 110	PASS
4-Bromofluorobenzene	99.5	86 - 115	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 3676695
25-JUL-2014 08:27

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L14070607 Run Date: 07/17/2014 Sample ID: WG484736-02
Instrument ID: HPMS11 Run Time: 17:01 Prep Method: 5030B/5030C/503
File ID: 11M02546 Analyst: ADC Method: 8260B
Workgroup (AAB#): WG484736 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD65396 Cal ID: HPMS11-27-JUN-14

Analytes	Expected	Found	% Rec	LCS Limits	Q
Acetone	20.0	26.1	131	40 - 180	
Benzene	20.0	21.7	109	80 - 121	
Bromobenzene	20.0	18.1	90.3	80 - 120	
Bromochloromethane	20.0	21.4	107	65 - 130	
Bromodichloromethane	20.0	20.9	104	80 - 131	
Bromoform	20.0	20.6	103	70 - 130	
Bromomethane	20.0	17.2	85.8	30 - 145	
2-Butanone	20.0	26.8	134	10 - 170	
n-Butylbenzene	20.0	21.6	108	80 - 131	
sec-Butylbenzene	20.0	19.2	96.2	80 - 127	
tert-Butylbenzene	20.0	17.6	87.9	80 - 126	
Carbon disulfide	20.0	21.4	107	58 - 128	
Carbon tetrachloride	20.0	21.7	109	65 - 140	
Chlorobenzene	20.0	18.1	90.5	80 - 120	
Chlorodibromomethane	20.0	20.2	101	60 - 135	
Chloroethane	20.0	21.7	109	60 - 135	
2-Chloroethyl vinyl ether	20.0	23.0	115	45 - 160	
Chloroform	20.0	20.9	104	80 - 125	
Chloromethane	20.0	23.8	119	40 - 125	
2-Chlorotoluene	20.0	17.8	89.1	80 - 127	
4-Chlorotoluene	20.0	17.3	86.4	80 - 126	
1,2-Dibromo-3-chloropropane	20.0	20.4	102	50 - 130	
1,2-Dibromoethane	20.0	19.4	97.2	80 - 129	
Dibromomethane	20.0	21.6	108	75 - 125	
1,2-Dichlorobenzene	20.0	17.7	88.4	80 - 125	
1,3-Dichlorobenzene	20.0	17.3	86.7	80 - 120	
1,4-Dichlorobenzene	20.0	18.6	92.8	80 - 120	
Dichlorodifluoromethane	20.0	28.5	143	40 - 160	
1,1-Dichloroethane	20.0	20.9	104	80 - 125	
1,2-Dichloroethane	20.0	21.0	105	80 - 129	
1,1-Dichloroethene	20.0	20.3	102	80 - 132	
cis-1,2-Dichloroethene	20.0	20.6	103	70 - 125	
trans-1,2-Dichloroethene	20.0	20.9	104	80 - 127	
1,2-Dichloropropane	20.0	21.5	108	80 - 120	
1,3-Dichloropropane	20.0	19.3	96.7	80 - 120	
2,2-Dichloropropane	20.0	21.4	107	80 - 133	
cis-1,3-Dichloropropene	20.0	23.0	115	70 - 130	
trans-1,3-Dichloropropene	20.0	19.4	97.2	80 - 130	
1,1-Dichloropropene	20.0	21.1	106	75 - 130	
Ethylbenzene	20.0	18.4	92.0	80 - 122	
2-Hexanone	20.0	24.3	122	55 - 130	

LCS - Modified 03/06/2008
PDF File ID: 3673721
Report generated: 07/25/2014 08:27

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L14070607 Run Date: 07/17/2014 Sample ID: WG484736-02
Instrument ID: HPMS11 Run Time: 17:01 Prep Method: 5030B/5030C/503
File ID: 11M02546 Analyst: ADC Method: 8260B
Workgroup (AAB#): WG484736 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD65396 Cal ID: HPMS11-27-JUN-14

Analytes	Expected	Found	% Rec	LCS Limits	Q
Hexachlorobutadiene	20.0	19.6	97.9	72 - 132	
Isopropylbenzene	20.0	19.4	97.1	80 - 122	
p-Isopropyltoluene	20.0	19.4	96.8	80 - 122	
4-Methyl-2-pentanone	20.0	26.2	131	64 - 140	
Methylene chloride	20.0	20.3	102	80 - 123	
Naphthalene	20.0	20.1	101	59 - 149	
n-Propylbenzene	20.0	18.2	90.8	80 - 129	
Styrene	20.0	20.0	100	80 - 123	
1,1,1,2-Tetrachloroethane	20.0	18.4	92.2	80 - 130	
1,1,2,2-Tetrachloroethane	20.0	19.3	96.7	79 - 125	
Tetrachloroethene	20.0	18.2	90.9	80 - 124	
Toluene	20.0	20.2	101	80 - 124	
1,2,3-Trichlorobenzene	20.0	19.3	96.3	55 - 140	
1,2,4-Trichlorobenzene	20.0	18.5	92.7	65 - 135	
1,1,1-Trichloroethane	20.0	21.0	105	80 - 134	
1,1,2-Trichloroethane	20.0	19.2	95.9	80 - 125	
Trichloroethene	20.0	20.3	102	80 - 122	
Trichlorofluoromethane	20.0	22.9	114	62 - 151	
1,2,3-Trichloropropane	20.0	19.7	98.5	75 - 125	
1,2,4-Trimethylbenzene	20.0	20.5	103	80 - 125	
1,3,5-Trimethylbenzene	20.0	20.5	102	80 - 127	
Vinyl acetate	20.0	36.0	180	10 - 190	
Vinyl chloride	20.0	20.0	100	50 - 170	
o-Xylene	20.0	17.7	88.5	80 - 122	
m-,p-Xylene	40.0	38.8	97.1	80 - 122	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	99.1	86 - 118	PASS
1,2-Dichloroethane-d4	99.2	80 - 120	PASS
Toluene-d8	91.5	88 - 110	PASS
4-Bromofluorobenzene	91.5	86 - 115	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 3673721
Report generated: 07/25/2014 08:27

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L14070607 Analyst: FJB Prep Method: 5030B/5030C/503
Instrument ID: HPMS9 Matrix: Water Method: 8260B
Workgroup (AAB#): WG484906 Units: ug/L
QC Key: STD Lot #: STD65396

Sample ID: WG484906-02 LCS File ID: 9M964792 Run Date: 07/18/2014 21:36
Sample ID: WG484906-03 LCS2 File ID: 9M964793 Run Date: 07/18/2014 22:06

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1,2-Tetrachloroethane	20.0	18.7	93.5	20.0	19.7	98.5	5.15	80 - 130	20	
1,1,1-Trichloroethane	20.0	17.5	87.6	20.0	18.5	92.4	5.34	80 - 134	20	
1,1,2,2-Tetrachloroethane	20.0	18.7	93.4	20.0	19.3	96.3	3.10	79 - 125	20	
1,1,2-Trichloroethane	20.0	19.2	96.0	20.0	19.8	98.8	2.83	80 - 125	20	
1,1-Dichloroethane	20.0	17.2	85.9	20.0	18.2	90.8	5.50	80 - 125	20	
1,1-Dichloroethene	20.0	16.1	80.6	20.0	17.2	86.1	6.58	80 - 132	20	
1,1-Dichloropropene	20.0	16.7	83.7	20.0	17.9	89.4	6.54	75 - 130	20	
1,2,3-Trichlorobenzene	20.0	19.7	98.6	20.0	19.7	98.7	0.0742	55 - 140	20	
1,2,3-Trichloropropane	20.0	21.3	107	20.0	21.1	106	0.915	75 - 125	20	
1,2,4-Trichlorobenzene	20.0	19.2	96.2	20.0	19.6	98.0	1.79	65 - 135	20	
1,2,4-Trimethylbenzene	20.0	21.3	106	20.0	22.2	111	4.41	80 - 125	20	
1,2-Dibromo-3-chloropropane	20.0	20.5	103	20.0	20.1	101	2.19	50 - 130	20	
1,2-Dibromoethane	20.0	18.8	93.9	20.0	19.5	97.4	3.61	80 - 129	20	
1,2-Dichlorobenzene	20.0	19.5	97.3	20.0	19.9	99.5	2.23	80 - 125	20	
1,2-Dichloroethane	20.0	18.1	90.4	20.0	19.0	94.8	4.78	80 - 129	20	
1,2-Dichloropropane	20.0	18.1	90.7	20.0	19.1	95.7	5.44	80 - 120	20	
1,3,5-Trimethylbenzene	20.0	21.5	108	20.0	22.7	113	5.08	80 - 127	20	
1,3-Dichlorobenzene	20.0	18.5	92.6	20.0	18.9	94.5	2.06	80 - 120	20	
1,3-Dichloropropane	20.0	19.2	96.1	20.0	19.9	99.4	3.38	80 - 120	20	
1,4-Dichlorobenzene	20.0	19.7	98.7	20.0	20.3	101	2.72	80 - 120	20	
2,2-Dichloropropane	20.0	13.6	67.8	20.0	16.8	83.8	21.2	80 - 133	20	*#
2-Butanone	20.0	19.3	96.4	20.0	19.6	98.2	1.86	10 - 170	20	
2-Chloroethyl vinyl ether	20.0	20.6	103	20.0	20.6	103	0.0743	45 - 160	20	
2-Chlorotoluene	20.0	21.1	106	20.0	18.9	94.6	11.1	80 - 127	20	
2-Hexanone	20.0	20.2	101	20.0	20.1	100	0.928	55 - 130	20	
4-Chlorotoluene	20.0	17.7	88.7	20.0	18.1	90.7	2.23	80 - 126	20	
4-Methyl-2-pentanone	20.0	19.3	96.7	20.0	19.8	99.2	2.50	64 - 140	20	
Acetone	20.0	20.9	104	20.0	20.6	103	1.24	40 - 180	20	
Benzene	20.0	18.1	90.3	20.0	19.0	95.2	5.31	80 - 121	20	
Bromobenzene	20.0	20.4	102	20.0	20.4	102	0.424	80 - 120	20	
Bromochloromethane	20.0	16.8	83.8	20.0	17.5	87.7	4.52	65 - 130	20	
Bromodichloromethane	20.0	17.9	89.7	20.0	18.4	92.1	2.64	80 - 131	20	
Bromoform	20.0	18.2	91.1	20.0	18.7	93.4	2.54	70 - 130	20	
Bromomethane	20.0	18.2	91.2	20.0	19.0	94.8	3.87	30 - 145	20	
Carbon disulfide	20.0	17.1	85.7	20.0	18.1	90.3	5.29	58 - 128	20	
Carbon tetrachloride	20.0	16.8	83.9	20.0	18.1	90.5	7.66	65 - 140	20	
Chlorobenzene	20.0	17.5	87.5	20.0	18.6	92.8	5.89	80 - 120	20	
Chloroethane	20.0	19.4	96.9	20.0	20.5	103	5.68	60 - 135	20	
Chloroform	20.0	17.6	87.8	20.0	18.4	91.8	4.52	80 - 125	20	
Chloromethane	20.0	18.8	94.1	20.0	18.8	93.9	0.242	40 - 125	20	

LCS_LCS2 - Modified 03/06/2008
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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L14070607 Analyst: FJB Prep Method: 5030B/5030C/503
Instrument ID: HPMS9 Matrix: Water Method: 8260B
Workgroup (AAB#): WG484906 Units: ug/L
QC Key: STD Lot #: STD65396

Sample ID: WG484906-02 LCS File ID: 9M964792 Run Date: 07/18/2014 21:36
Sample ID: WG484906-03 LCS2 File ID: 9M964793 Run Date: 07/18/2014 22:06

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
cis-1,2-Dichloroethene	20.0	17.3	86.5	20.0	18.6	93.0	7.19	70 - 125	20	
cis-1,3-Dichloropropene	20.0	18.2	91.2	20.0	19.6	98.0	7.20	70 - 130	20	
Chlorodibromomethane	20.0	18.9	94.6	20.0	19.8	99.0	4.55	60 - 135	20	
Dibromomethane	20.0	17.8	89.2	20.0	18.2	91.0	2.06	75 - 125	20	
Dichlorodifluoromethane	20.0	22.9	115	20.0	23.6	118	2.85	40 - 160	20	
Ethylbenzene	20.0	18.4	91.8	20.0	19.5	97.5	6.02	80 - 122	20	
Hexachlorobutadiene	20.0	17.7	88.7	20.0	19.3	96.3	8.24	72 - 132	20	
Isopropylbenzene	20.0	17.7	88.3	20.0	19.0	95.2	7.49	80 - 122	20	
m-,p-Xylene	40.0	36.7	91.6	40.0	39.0	97.6	6.32	80 - 122	20	
Methylene chloride	20.0	18.4	91.8	20.0	18.6	93.0	1.28	80 - 123	20	
n-Butylbenzene	20.0	19.9	99.5	20.0	21.1	106	6.07	80 - 131	20	
n-Propylbenzene	20.0	19.2	96.1	20.0	20.3	101	5.43	80 - 129	20	
Naphthalene	20.0	22.7	113	20.0	22.0	110	2.95	59 - 149	20	
o-Xylene	20.0	17.2	86.2	20.0	18.2	91.1	5.53	80 - 122	20	
p-Isopropyltoluene	20.0	19.4	97.0	20.0	20.5	103	5.64	80 - 122	20	
sec-Butylbenzene	20.0	19.5	97.7	20.0	20.6	103	5.21	80 - 127	20	
Styrene	20.0	19.5	97.3	20.0	20.6	103	5.46	80 - 123	20	
tert-Butylbenzene	20.0	19.2	96.1	20.0	20.1	101	4.53	80 - 126	20	
Tetrachloroethene	20.0	17.0	85.0	20.0	18.8	93.9	9.97	80 - 124	20	
Toluene	20.0	19.2	96.2	20.0	20.2	101	4.71	80 - 124	20	
trans-1,2-Dichloroethene	20.0	17.5	87.5	20.0	18.3	91.4	4.46	80 - 127	20	
trans-1,3-Dichloropropene	20.0	17.6	87.9	20.0	18.4	91.8	4.32	80 - 130	20	
Trichloroethene	20.0	17.9	89.7	20.0	18.1	90.6	1.07	80 - 122	20	
Trichlorofluoromethane	20.0	17.8	89.0	20.0	19.1	95.3	6.87	62 - 151	20	
Vinyl acetate	20.0	9.97	49.9	20.0	16.3	81.3	47.9	10 - 190	20	#
Vinyl chloride	20.0	20.0	99.9	20.0	21.4	107	7.00	50 - 170	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	86.6	87.3	80 - 120	PASS
Dibromofluoromethane	88.7	88.9	86 - 118	PASS
4-Bromofluorobenzene	101	99.2	86 - 115	PASS
Toluene-d8	102	101	88 - 110	PASS

* EXCEEDS %REC LIMIT

\# EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
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Report generated: 07/25/2014 08:27

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L14070607 Analyst: ADC Prep Method: 5030B/5030C/503
Instrument ID: HPMS17 Matrix: Water Method: 8260B
Workgroup (AAB#): WG484692 Units: ug/L
QC Key: STD Lot #: STD65511

Sample ID: WG484692-02 LCS File ID: 17M006954 Run Date: 07/17/2014 21:36
Sample ID: WG484692-03 LCS2 File ID: 17M006955 Run Date: 07/17/2014 21:55

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1,2-Tetrachloroethane	20.0	19.9	99.4	20.0	18.9	94.4	5.17	80 - 130	20	
1,1,1-Trichloroethane	20.0	19.6	98.1	20.0	19.3	96.5	1.55	80 - 134	20	
1,1,2,2-Tetrachloroethane	20.0	18.4	92.2	20.0	17.1	85.7	7.29	79 - 125	20	
1,1,2-Trichloroethane	20.0	19.8	98.9	20.0	18.4	92.0	7.26	80 - 125	20	
1,1-Dichloroethane	20.0	19.8	98.9	20.0	19.3	96.6	2.36	80 - 125	20	
1,1-Dichloroethene	20.0	19.3	96.3	20.0	18.8	94.2	2.11	80 - 132	20	
1,1-Dichloropropene	20.0	19.7	98.7	20.0	19.7	98.4	0.311	75 - 130	20	
1,2,3-Trichlorobenzene	20.0	20.0	99.9	20.0	18.4	92.2	8.03	55 - 140	20	
1,2,3-Trichloropropane	20.0	20.1	100	20.0	18.4	92.1	8.59	75 - 125	20	
1,2,4-Trichlorobenzene	20.0	18.6	92.9	20.0	17.2	86.2	7.47	65 - 135	20	
1,2,4-Trimethylbenzene	20.0	21.2	106	20.0	19.9	99.6	6.25	80 - 125	20	
1,2-Dibromo-3-chloropropane	20.0	20.9	105	20.0	18.5	92.7	12.1	50 - 130	20	
1,2-Dibromoethane	20.0	20.0	100	20.0	18.6	92.9	7.29	80 - 129	20	
1,2-Dichlorobenzene	20.0	19.7	98.3	20.0	18.1	90.7	8.06	80 - 125	20	
1,2-Dichloroethane	20.0	20.1	101	20.0	19.5	97.3	3.40	80 - 129	20	
1,2-Dichloropropane	20.0	20.7	103	20.0	19.9	99.6	3.66	80 - 120	20	
1,3,5-Trimethylbenzene	20.0	21.3	106	20.0	19.9	99.3	6.95	80 - 127	20	
1,3-Dichlorobenzene	20.0	19.3	96.7	20.0	18.1	90.4	6.70	80 - 120	20	
1,3-Dichloropropane	20.0	20.1	100	20.0	18.8	94.2	6.28	80 - 120	20	
1,4-Dichlorobenzene	20.0	20.9	105	20.0	19.5	97.5	7.01	80 - 120	20	
2,2-Dichloropropane	20.0	16.4	82.0	20.0	16.1	80.3	2.19	80 - 133	20	
2-Butanone	20.0	21.1	106	20.0	20.0	99.8	5.73	10 - 170	20	
2-Chloroethyl vinyl ether	20.0	21.0	105	20.0	20.3	101	3.33	45 - 160	20	
2-Chlorotoluene	20.0	19.4	97.0	20.0	18.1	90.7	6.70	80 - 127	20	
2-Hexanone	20.0	20.3	102	20.0	19.3	96.3	5.37	55 - 130	20	
4-Chlorotoluene	20.0	18.9	94.7	20.0	17.8	89.0	6.25	80 - 126	20	
4-Methyl-2-pentanone	20.0	21.3	107	20.0	20.1	101	5.71	64 - 140	20	
Acetone	20.0	22.6	113	20.0	21.4	107	5.35	40 - 180	20	
Benzene	20.0	20.5	102	20.0	20.1	100	1.84	80 - 121	20	
Bromobenzene	20.0	20.4	102	20.0	18.9	94.4	7.72	80 - 120	20	
Bromochloromethane	20.0	20.6	103	20.0	20.1	100	2.54	65 - 130	20	
Bromodichloromethane	20.0	19.6	98.1	20.0	19.0	95.2	3.00	80 - 131	20	
Bromoform	20.0	20.4	102	20.0	19.0	94.9	7.22	70 - 130	20	
Bromomethane	20.0	16.3	81.4	20.0	18.0	90.0	10.0	30 - 145	20	
Carbon disulfide	20.0	15.4	76.9	20.0	15.4	77.1	0.196	58 - 128	20	
Carbon tetrachloride	20.0	20.0	100	20.0	19.6	98.1	2.02	65 - 140	20	
Chlorobenzene	20.0	18.8	94.1	20.0	18.0	89.9	4.63	80 - 120	20	
Chloroethane	20.0	17.1	85.3	20.0	16.5	82.4	3.49	60 - 135	20	
Chloroform	20.0	19.8	99.1	20.0	19.4	96.9	2.19	80 - 125	20	
Chloromethane	20.0	22.1	110	20.0	22.0	110	0.243	40 - 125	20	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 3676696
Report generated: 07/25/2014 08:27

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L14070607 Analyst: ADC Prep Method: 5030B/5030C/503
Instrument ID: HPMS17 Matrix: Water Method: 8260B
Workgroup (AAB#): WG484692 Units: ug/L
QC Key: STD Lot #: STD65511

Sample ID: WG484692-02 LCS File ID: 17M006954 Run Date: 07/17/2014 21:36
Sample ID: WG484692-03 LCS2 File ID: 17M006955 Run Date: 07/17/2014 21:55

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
cis-1,2-Dichloroethene	20.0	20.2	101	20.0	19.8	98.9	2.18	70 - 125	20	
cis-1,3-Dichloropropene	20.0	20.2	101	20.0	19.7	98.3	2.54	70 - 130	20	
Chlorodibromomethane	20.0	20.0	100	20.0	18.8	94.1	6.04	60 - 135	20	
Dibromomethane	20.0	20.7	103	20.0	20.0	100	3.17	75 - 125	20	
Dichlorodifluoromethane	20.0	28.2	141	20.0	28.0	140	0.522	40 - 160	20	
Ethylbenzene	20.0	20.2	101	20.0	19.1	95.3	5.56	80 - 122	20	
Hexachlorobutadiene	20.0	17.8	89.0	20.0	16.8	83.9	5.91	72 - 132	20	
Isopropylbenzene	20.0	19.0	95.2	20.0	18.2	91.1	4.40	80 - 122	20	
m-,p-Xylene	40.0	39.9	99.9	40.0	38.0	95.0	4.99	80 - 122	20	
Methylene chloride	20.0	19.7	98.4	20.0	19.2	96.2	2.26	80 - 123	20	
n-Butylbenzene	20.0	21.1	105	20.0	20.0	99.8	5.38	80 - 131	20	
n-Propylbenzene	20.0	19.2	96.2	20.0	18.1	90.6	6.05	80 - 129	20	
Naphthalene	20.0	17.8	89.2	20.0	16.7	83.4	6.69	59 - 149	20	
o-Xylene	20.0	18.7	93.5	20.0	17.8	89.2	4.76	80 - 122	20	
p-Isopropyltoluene	20.0	19.5	97.4	20.0	18.4	92.2	5.49	80 - 122	20	
sec-Butylbenzene	20.0	19.7	98.3	20.0	18.5	92.6	6.00	80 - 127	20	
Styrene	20.0	20.3	101	20.0	19.2	96.0	5.38	80 - 123	20	
tert-Butylbenzene	20.0	18.9	94.7	20.0	18.0	90.0	5.10	80 - 126	20	
Tetrachloroethene	20.0	19.2	95.9	20.0	18.5	92.6	3.56	80 - 124	20	
Toluene	20.0	20.3	102	20.0	19.3	96.4	5.22	80 - 124	20	
trans-1,2-Dichloroethene	20.0	20.2	101	20.0	19.8	99.2	2.02	80 - 127	20	
trans-1,3-Dichloropropene	20.0	18.8	93.9	20.0	18.0	90.0	4.21	80 - 130	20	
Trichloroethene	20.0	21.3	107	20.0	20.3	102	4.62	80 - 122	20	
Trichlorofluoromethane	20.0	21.7	109	20.0	21.4	107	1.24	62 - 151	20	
Vinyl acetate	20.0	19.3	96.4	20.0	20.7	104	7.19	10 - 190	20	
Vinyl chloride	20.0	21.8	109	20.0	21.6	108	0.900	50 - 170	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	94.0	93.7	80 - 120	PASS
Dibromofluoromethane	102	101	86 - 118	PASS
4-Bromofluorobenzene	98.6	95.9	86 - 115	PASS
Toluene-d8	104	101	88 - 110	PASS

* EXCEEDS %REC LIMIT

\# EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 3676696
Report generated: 07/25/2014 08:27

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L14070607
Instrument: HPMS11
Analyst: FJB
Workgroup: WG455130

Tune ID: WG455130-01
Run Date: 12/04/2013
Run Time: 15:09
File ID: 11M97408
Cal ID: HPMS11 - 04-DEC-13

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	26.3	2601	PASS
75.0	95.0	30.0	60.0	52.3	5177	PASS
95.0	95.0	100	100	100	9902	PASS
96.0	95.0	5.00	9.00	6.82	675	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	65.0	6441	PASS
175	174	5.00	9.00	5.96	384	PASS
176	174	95.0	101	98.2	6328	PASS
177	176	5.00	9.00	8.12	514	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG455130-02	STD	01	12/04/2013 16:06	
WG455130-03	STD	01	12/04/2013 16:38	
WG455130-04	STD	01	12/04/2013 17:10	
WG455130-05	STD	01	12/04/2013 17:41	
WG455130-06	STD-CCV	01	12/04/2013 18:13	
WG455130-07	STD	01	12/04/2013 18:44	
WG455130-08	STD	01	12/04/2013 19:15	
WG455130-09	STD	01	12/04/2013 19:47	
WG455130-10	SSCV	01	12/04/2013 20:50	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 3676697
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L14070607
Instrument: HPMS11
Analyst: FJB
Workgroup: WG482009

Tune ID: WG482009-01
Run Date: 06/27/2014
Run Time: 14:07
File ID: 11M02148
Cal ID: HPMS11 -

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	17.0	7655	PASS
75.0	95.0	30.0	60.0	47.0	21128	PASS
95.0	95.0	100	100	100	44912	PASS
96.0	95.0	5.00	9.00	6.54	2936	PASS
173	174	0	2.00	0.521	194	PASS
174	95.0	50.0	100	82.9	37234	PASS
175	174	5.00	9.00	6.66	2479	PASS
176	174	95.0	101	95.5	35560	PASS
177	176	5.00	9.00	6.83	2430	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG482009-03	STD	01	06/27/2014 15:29	
WG482009-04	STD	01	06/27/2014 16:07	
WG482009-02	STD	01	06/27/2014 16:37	
WG482009-05	STD	01	06/27/2014 17:08	
WG482009-06	STD	01	06/27/2014 17:38	
WG482009-07	STD	01	06/27/2014 18:08	
WG482009-08	STD-CCV	01	06/27/2014 18:38	
WG482009-09	STD	01	06/27/2014 19:08	
WG482009-10	STD	01	06/27/2014 19:38	
WG482009-11	STD	01	06/27/2014 20:09	
WG482009-12	SSCV	01	06/27/2014 21:34	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 3676697
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L14070607
Instrument: HPMS11
Analyst: ADC
Workgroup: WG484735

Tune ID: WG484735-01
Run Date: 07/17/2014
Run Time: 15:00
File ID: 11M02542
Cal ID: HPMS11 - 27-JUN-14

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	18.8	3106	PASS
75.0	95.0	30.0	60.0	47.7	7866	PASS
95.0	95.0	100	100	100	16489	PASS
96.0	95.0	5.00	9.00	6.53	1076	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	83.9	13837	PASS
175	174	5.00	9.00	8.27	1144	PASS
176	174	95.0	101	99.0	13702	PASS
177	176	5.00	9.00	6.93	949	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG484735-02	CCV	01	07/17/2014 15:25	
WG484736-01	BLANK	01	07/17/2014 16:29	
WG484736-02	LCS	01	07/17/2014 17:01	
L14070607-06	E-11WG-MW001(070914)	01	07/17/2014 21:49	
L14070607-07	E-3WG-MW002(070914)	01	07/17/2014 22:21	
L14070607-08	E-70-MW004(070914)	01	07/17/2014 22:52	
L14070607-09	E-MW012L(070914)	01	07/17/2014 23:24	
L14070607-10	E-MW012H(070914)	01	07/17/2014 23:56	
L14070607-15	E-82-MW001(071014)	01	07/18/2014 00:28	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 3676697
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L14070607
Instrument: HPMS17
Analyst: MES
Workgroup: WG448462

Tune ID: WG448462-01
Run Date: 10/13/2013
Run Time: 16:45
File ID: 17M000184
Cal ID: HPMS17 - 13-OCT-13

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	18.4	9603	PASS
75.0	95.0	30.0	60.0	46.9	24464	PASS
95.0	95.0	100	100	100	52213	PASS
96.0	95.0	5.00	9.00	7.19	3755	PASS
173	174	0	2.00	1.14	488	PASS
174	95.0	50.0	100	82.2	42925	PASS
175	174	5.00	9.00	7.26	3116	PASS
176	174	95.0	101	97.1	41672	PASS
177	176	5.00	9.00	6.38	2660	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG448462-02	STD	01	10/13/2013 17:48	
WG448462-03	STD	01	10/13/2013 18:15	
WG448462-04	STD	01	10/13/2013 18:43	
WG448462-05	STD-CCV	01	10/13/2013 19:11	
WG448462-06	STD	01	10/13/2013 19:39	
WG448462-07	STD	01	10/13/2013 20:07	
WG448462-08	STD	01	10/13/2013 20:35	
WG448462-09	STD	01	10/13/2013 21:03	
WG448462-10	SSCV	01	10/13/2013 22:00	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 3676697
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L14070607
Instrument: HPMS17
Analyst: ADC
Workgroup: WG483481

Tune ID: WG483481-01
Run Date: 07/09/2014
Run Time: 16:09
File ID: 17M006665
Cal ID: HPMS17 - 09-JUL-14

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	15.1	5818	PASS
75.0	95.0	30.0	60.0	44.6	17204	PASS
95.0	95.0	100	100	100	38597	PASS
96.0	95.0	5.00	9.00	6.63	2558	PASS
173	174	0	2.00	0.497	172	PASS
174	95.0	50.0	100	89.7	34616	PASS
175	174	5.00	9.00	7.42	2569	PASS
176	174	95.0	101	97.4	33701	PASS
177	176	5.00	9.00	6.70	2258	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG483481-02	STD	01	07/09/2014 16:53	
WG483481-03	STD	01	07/09/2014 17:13	
WG483481-04	STD	01	07/09/2014 17:33	
WG483481-05	STD	01	07/09/2014 17:52	
WG483481-06	STD	01	07/09/2014 18:12	
WG483481-07	STD	01	07/09/2014 18:32	
WG483481-08	STD-CCV	01	07/09/2014 18:51	
WG483481-09	STD	01	07/09/2014 19:11	
WG483481-10	STD	01	07/09/2014 19:31	
WG483481-11	STD	01	07/09/2014 19:50	
WG483481-12	SSCV	01	07/09/2014 20:30	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 3676697
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L14070607
Instrument: HPMS17
Analyst: ADC
Workgroup: WG484589

Tune ID: WG484589-01
Run Date: 07/17/2014
Run Time: 12:22
File ID: 17M006926
Cal ID: HPMS17 - 09-JUL-14

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	15.3	5233	PASS
75.0	95.0	30.0	60.0	46.2	15818	PASS
95.0	95.0	100	100	100	34264	PASS
96.0	95.0	5.00	9.00	6.77	2321	PASS
173	174	0	2.00	0.727	237	PASS
174	95.0	50.0	100	95.1	32581	PASS
175	174	5.00	9.00	7.55	2461	PASS
176	174	95.0	101	97.3	31693	PASS
177	176	5.00	9.00	6.95	2202	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG484589-02	CCV	01	07/17/2014 12:42	
WG484692-01	BLANK	01	07/17/2014 21:16	
WG484692-02	LCS	01	07/17/2014 21:36	
WG484692-03	LCS2	01	07/17/2014 21:55	
L14070607-01	E-38-SW001(070914)	01	07/17/2014 22:54	
L14070607-02	E-38-SW004(070914)	01	07/17/2014 23:14	
L14070607-03	D-SW005(070914)	01	07/17/2014 23:34	
L14070607-04	E-80-MW003(070914)	01	07/17/2014 23:54	
L14070607-05	E-MW002(070914)	01	07/18/2014 00:14	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 3676697
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L14070607
Instrument: HPMS9
Analyst: ADC
Workgroup: WG441887

Tune ID: WG441887-01
Run Date: 08/19/2013
Run Time: 15:08
File ID: 9M957893
Cal ID: HPMS9 -

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	17.7	8524	PASS
75.0	95.0	30.0	60.0	54.9	26372	PASS
95.0	95.0	100	100	100	48077	PASS
96.0	95.0	5.00	9.00	6.87	3304	PASS
173	174	0	2.00	0.270	117	PASS
174	95.0	50.0	100	90.1	43306	PASS
175	174	5.00	9.00	7.40	3205	PASS
176	174	95.0	101	98.9	42808	PASS
177	176	5.00	9.00	6.58	2817	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG441888-01	STD	01	08/19/2013 16:23	
WG441888-02	STD	01	08/19/2013 16:53	
WG441888-03	STD	01	08/19/2013 17:22	
WG441888-04	STD-CCV	01	08/19/2013 17:51	
WG441888-05	STD	01	08/19/2013 18:20	
WG441888-06	STD	01	08/19/2013 18:48	
WG441888-07	STD	01	08/19/2013 19:17	
WG441888-08	STD	01	08/19/2013 19:46	
WG441888-09	SSCV	01	08/19/2013 20:45	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 3676697
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L14070607
Instrument: HPMS9
Analyst: ADC
Workgroup: WG482030

Tune ID: WG482030-01
Run Date: 06/26/2014
Run Time: 14:58
File ID: 9M964346
Cal ID: HPMS9 -

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.3	10401	PASS
75.0	95.0	30.0	60.0	48.9	20913	PASS
95.0	95.0	100	100	100	42797	PASS
96.0	95.0	5.00	9.00	7.30	3124	PASS
173	174	0	2.00	0.645	245	PASS
174	95.0	50.0	100	88.7	37965	PASS
175	174	5.00	9.00	7.72	2930	PASS
176	174	95.0	101	100	38056	PASS
177	176	5.00	9.00	6.00	2283	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG482030-02	STD	01	06/26/2014 15:55	
WG482030-03	STD	01	06/26/2014 16:24	
WG482030-04	STD	01	06/26/2014 16:53	
WG482030-05	STD	01	06/26/2014 17:22	
WG482030-06	STD	01	06/26/2014 17:51	
WG482030-07	STD	01	06/26/2014 18:20	
WG482030-08	STD-CCV	01	06/26/2014 18:50	
WG482030-09	STD	01	06/26/2014 19:19	
WG482030-10	STD	01	06/26/2014 19:48	
WG482030-11	STD	01	06/26/2014 20:17	
WG482030-12	SSCV	01	06/26/2014 21:16	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 3676697
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L14070607
Instrument: HPMS9
Analyst: FJB
Workgroup: WG484905

Tune ID: WG484905-01
Run Date: 07/18/2014
Run Time: 16:13
File ID: 9M964781
Cal ID: HPMS9 - 26-JUN-14

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.6	16223	PASS
75.0	95.0	30.0	60.0	47.1	31069	PASS
95.0	95.0	100	100	100	65944	PASS
96.0	95.0	5.00	9.00	6.34	4180	PASS
173	174	0	2.00	0.640	371	PASS
174	95.0	50.0	100	87.9	57973	PASS
175	174	5.00	9.00	6.29	3646	PASS
176	174	95.0	101	96.0	55640	PASS
177	176	5.00	9.00	6.85	3810	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG484905-02	CCV	01	07/18/2014 16:39	
WG484906-01	BLANK	01	07/18/2014 17:41	
WG484906-02	LCS	01	07/18/2014 21:36	
WG484906-03	LCS2	01	07/18/2014 22:06	
L14070607-16	TB1(9669)	01	07/19/2014 00:32	
L14070607-14	TB1(9289)	01	07/19/2014 01:01	
L14070607-13	FB001(070914)	01	07/19/2014 01:30	
L14070607-12	E-95-MW003(070914)	01	07/19/2014 02:29	
L14070607-11	E-MW001(070914)	01	07/19/2014 02:58	
WG484906-04	BLANK2	01	07/19/2014 04:54	*

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 3676697
Report generated 07/25/2014 08:27

Calibration Table Report
Method: A9WTR.M
Title: Appendix IX (SOP:OVL MSV01) Water 12/04/13 HPMS11
Last Calibration: Wed Dec 18 14:24:41 2013
Curve: WG455130
Calibration Files

Compound	5 11M97410.D	20 11M97411.D	50 11M97412.D	100 11M97413.D	200 11M97414.D	300 11M97415.D	400 11M97416.D	500 11M97417.D	Avg	%RSD	Linear	Quadratic
Fluorobenzene	ISTD											
Acetonitrile	0.036	0.028	0.027	0.029	0.029	0.030	0.029	0.029	0.030	9.836		
3-Chloro-1-propene	0.478	0.497	0.515	0.502	0.505	0.493	0.454	0.439	0.485	5.450		
2-Chloro-1,3-butadiene	0.458	0.502	0.525	0.523	0.533	0.520	0.480	0.464	0.501	5.923		
Methacrylonitrile	0.196	0.178	0.168	0.176	0.183	0.184	0.174	0.174	0.179	4.838		
Isobutyl Alcohol		0.010	0.008	0.009	0.009	0.010	0.009	0.010	0.009	7.458		
1-Butanol		0.003	0.003	0.004	0.004	0.005	0.005	0.004	0.004	19.985	0.995	
Cyclohexanone		0.028	0.021	0.021	0.018	0.036	0.036	0.042	0.029	31.895		0.991
2-Nitropropane	0.073	0.071	0.074	0.082	0.087	0.091	0.088	0.088	0.082	9.852		
Ethyl Acetate	0.246	0.236	0.224	0.236	0.242	0.241	0.225	0.223	0.234	3.836		
Methyl methacrylate	0.235	0.219	0.223	0.243	0.251	0.251	0.237	0.236	0.237	4.857		
Chlorobenzene-d5	ISTD											
1,4-Dichlorobenzene-d4	ISTD											

Wed Dec 18 14:50:12 2013

Calibration Table Report
Method: 8260WTR.M
Title: 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Calibration: Mon Jun 30 10:39:17 2014
Curve: WG482009
Calibration Files

	Compound	0.3	0.4	1	2	5	20	50	100	200	300	Avg	%RSD	Linear	Quadratic
		11M02152.D	11M02150.D	11M02151.D	11M02153.D	11M02154.D	11M02155.D	11M02156.D	11M02157.D	11M02158.D	11M02159.D				
I	Fluorobenzene	ISTD													
T	Dichlorodifluoromethane			0.236	0.227	0.242	0.300	0.285	0.294	0.292	0.290	0.271	11.204		
P	Chloromethane			0.587	0.511	0.468	0.484	0.449	0.449	0.438	0.395	0.472	12.170		
C	Vinyl Chloride		0.369	0.393	0.420	0.451	0.476	0.449	0.449	0.427	0.397	0.426	8.069		
T	1,3-Butadiene		0.353	0.308	0.372	0.396	0.440	0.343	0.232			0.349	19.012		0.999
T	Bromomethane		0.296	0.265	0.264	0.239	0.209	0.200	0.214	0.233	0.236	0.239	12.866		
T	Chloroethane		0.182	0.210	0.201	0.209	0.227	0.216	0.226	0.227	0.226	0.214	7.180		
T	Trichlorofluoromethane		0.489	0.449	0.480	0.512	0.524	0.508	0.524	0.524	0.514	0.503	5.057		
T	Diethyl ether			0.196	0.205	0.209	0.205	0.202	0.210		0.208	0.205	2.311		
T	Isoprene				0.378	0.409	0.443	0.447	0.459	0.465	0.471	0.439	7.679		
T	Acrolein			0.022	0.025	0.027	0.027	0.026	0.028		0.029	0.026	8.884		
T	1,1,2-Trichloro-1,2,2-Trifluoroe		0.282	0.288	0.282	0.316	0.326	0.311	0.325	0.325	0.329	0.309	6.433		
T	Acetone			0.061	0.060	0.057	0.047	0.045	0.046	0.044	0.045	0.050	14.606		
C	1,1-Dichloroethene		0.448	0.391	0.435	0.469	0.477	0.468	0.481	0.480	0.472	0.458	6.376		
T	Tert-Butyl Alcohol				0.014	0.014	0.014	0.013	0.013		0.012	0.013	6.291		
T	Dimethyl Sulfide		0.345	0.300	0.292	0.300	0.332	0.321	0.332	0.329	0.331	0.320	5.773		
T	Iodomethane			0.086	0.109	0.173	0.360	0.394	0.395	0.395	0.382	0.287	48.334		1.000
T	Methyl acetate			0.154	0.168	0.170	0.161	0.154	0.159	0.152	0.158	0.160	4.196		
T	Methylene Chloride		0.381	0.341	0.333	0.337	0.335	0.322	0.336	0.331	0.333	0.339	4.936		
T	Carbon Disulfide		1.011	0.894	0.935	0.948	1.046	1.012	1.004	0.941	0.841	0.959	6.837		
T	Acrylonitrile			0.062	0.066	0.068	0.069	0.070	0.072		0.076	0.069	6.759		
T	Methyl Tert Butyl Ether		0.730	0.668	0.697	0.699	0.719	0.686	0.706	0.674	0.671	0.694	3.121		
T	trans-1,2-Dichloroethene		0.351	0.318	0.310	0.328	0.342	0.331	0.346	0.344	0.343	0.335	4.139		
T	n-Hexane			0.353	0.350	0.394	0.409	0.400	0.401	0.398	0.398	0.388	5.877		
T	Diisopropyl ether			0.890	0.908	0.938	0.922	0.909	0.917		0.854	0.905	2.985		
T	Vinyl Acetate				0.186	0.222	0.270	0.250	0.274	0.259	0.259	0.246	12.813		
P	1,1-Dichloroethane		0.515	0.519	0.532	0.557	0.573	0.557	0.578	0.558	0.547	0.549	4.054		
T	Ethyl-Tert-Butyl ether			0.810	0.840	0.867	0.854	0.834	0.844		0.795	0.835	2.987		
T	2-Butanone			0.076	0.067	0.082	0.074	0.070	0.072	0.068	0.070	0.072	6.751		
T	Propionitrile			0.023	0.023	0.024	0.024	0.024	0.024		0.023	0.024	2.499		
T	2,2-Dichloropropane		0.513	0.425	0.472	0.491	0.509	0.494	0.512	0.508	0.504	0.492	5.790		
T	cis-1,2-Dichloroethene		0.376	0.325	0.344	0.361	0.378	0.362	0.377	0.373	0.373	0.363	4.980		
C	Chloroform	0.517	0.559	0.552	0.568	0.575	0.586	0.564	0.588	0.566	0.548	0.562	3.678		
T	1-Bromopropane			0.047	0.053	0.065	0.063	0.065	0.064	0.065	0.065	0.061	11.499		
T	Bromochloromethane		0.168	0.189	0.207	0.219	0.223	0.214	0.223	0.219	0.223	0.209	9.076		
T	Tetrahydrofuran			0.044	0.048	0.048	0.049	0.046	0.048		0.046	0.047	3.828		
S	Dibromofluoromethane			0.266	0.283	0.302	0.330	0.326	0.330	0.329	0.331	0.312	8.159		
T	1,1,1-Trichloroethane		0.548	0.465	0.459	0.511	0.538	0.524	0.551	0.551	0.543	0.521	6.888		
T	Cyclohexane		0.465	0.417	0.450	0.485	0.515	0.510	0.516	0.519	0.518	0.488	7.533		
T	1,1-Dichloropropene		0.432	0.391	0.404	0.432	0.456	0.445	0.461	0.454	0.448	0.436	5.529		
T	Carbon Tetrachloride		0.437	0.381	0.443	0.468	0.495	0.485	0.510	0.500	0.497	0.468	8.860		
T	Tert-Amyl-Methyl ether			0.698	0.729	0.75	0.75	0.72	0.728		0.689	0.723	3.211		
S	1,2-Dichloroethane-d4			0.259	0.29	0.317	0.326	0.311	0.315	0.309	0.31	0.305	6.910		
T	1,2-Dichloroethane		0.454	0.373	0.396	0.393	0.405	0.386	0.396	0.379	0.374	0.395	6.226		
T	Benzene		1.39	1.192	1.213	1.274	1.292	1.238	1.242	1.106	0.97	1.213	9.845		
T	Trichloroethene		0.419	0.34	0.37	0.368	0.376	0.367	0.38	0.379	0.375	0.375	5.433		
T	Methylcyclohexane		0.473	0.43	0.46	0.496	0.526	0.519	0.521	0.515	0.512	0.495	6.736		
C	1,2-Dichloropropane		0.293	0.278	0.284	0.294	0.318	0.307	0.319	0.314	0.315	0.302	5.110		
T	1,4-Dioxane				0.002	0.002	0.002	0.002	0.002		0.002	0.002	6.415		
T	Bromodichloromethane		0.428	0.377	0.393	0.417	0.432	0.425	0.448	0.434	0.428	0.420	5.186		
T	Dibromomethane		0.162	0.166	0.175	0.17	0.179	0.172	0.178	0.174	0.175	0.172	3.142		
T	2-Chloroethyl Vinyl Ether		0.145	0.123	0.124	0.13	0.141	0.142	0.144	0.142	0.147	0.138	6.625		
T	4-Methyl-2-Pentanone			0.06	0.058	0.063	0.065	0.065	0.067	0.065	0.066	0.064	4.570		
T	cis-1,3-Dichloropropene		0.427	0.42	0.426	0.466	0.509	0.498	0.52	0.5	0.484	0.472	8.263		
T	Dimethyl Disulfide					0.201	0.254	0.265	0.285	0.29	0.297	0.265	13.438		

I	Chlorobenzene-d5	ISTD														
S	Toluene-d8			1.412	1.44	1.489	1.548	1.525	1.458	1.471	1.375	1.465	3.897			
C	Toluene		1.852	1.699	1.729	1.853	1.871	1.79	1.685	1.469	1.223	1.686	12.651			
T	Ethyl Methacrylate		0.359	0.293	0.299	0.327	0.367	0.374	0.37	0.373	0.367	0.348	9.324			
T	trans-1,3-Dichloropropene		0.499	0.459	0.506	0.553	0.588	0.582	0.578	0.572	0.547	0.543	8.247			
T	1,1,2-Trichloroethane		0.349	0.316	0.31	0.322	0.327	0.317	0.309	0.314	0.31	0.319	3.977			
T	2-Hexanone		0.12	0.127	0.127	0.134	0.138	0.137	0.135	0.135	0.133	0.132	4.497			
T	1,3-Dichloropropane		0.64	0.532	0.551	0.572	0.567	0.536	0.527	0.516	0.5	0.549	7.471			
T	Tetrachloroethene		0.389	0.348	0.374	0.39	0.39	0.378	0.377	0.39	0.385	0.380	3.593			
T	Dibromochloromethane		0.408	0.366	0.364	0.398	0.412	0.415	0.419	0.425	0.417	0.403	5.596			
T	1,2-Dibromoethane		0.318	0.32	0.312	0.311	0.331	0.317	0.312	0.314	0.311	0.316	1.984			
T	1-Chlorohexane		0.525	0.482	0.487	0.549	0.59	0.592	0.571	0.591	0.564	0.550	7.844			
P	Chlorobenzene		1.267	1.185	1.238	1.281	1.261	1.251	1.231	1.173	1.012	1.211	6.849			
T	1,1,1,2-Tetrachloroethane		0.462	0.378	0.413	0.436	0.453	0.46	0.473	0.505	0.495	0.453	8.750			
C	Ethylbenzene		0.649	0.558	0.638	0.665	0.697	0.7	0.727	0.768	0.728	0.681	9.134			
T	m-,p-Xylene		0.803	0.704	0.767	0.824	0.845	0.828	0.803	0.719	0.591	0.765	10.600			
T	o-Xylene		0.776	0.701	0.73	0.783	0.814	0.815	0.815	0.83	0.779	0.783	5.513			
T	Styrene		1.029	0.973	1.057	1.189	1.325	1.342	1.329	1.24	1.066	1.172	12.297			
P	Bromoform		0.219	0.213	0.212	0.217	0.245	0.247	0.25	0.25	0.25	0.234	7.591			
T	Isopropylbenzene		1.792	1.714	1.872	1.984	2.053	1.982	1.865	1.593	1.299	1.795	13.078			
I	1,4-Dichlorobenzene-d4	ISTD														
P	1,1,2,2-Tetrachloroethane		0.713	0.667	0.714	0.705	0.685	0.661	0.656	0.629	0.617	0.672	5.274			
S	p-Bromofluorobenzene			1.04	1.014	1.063	1.105	1.1	1.112	1.123	1.089	1.081	3.525			
T	1,2,3-Trichloropropane			0.198	0.203	0.219	0.212	0.204	0.202	0.197	0.197	0.204	3.933			
T	trans-1,4-Dichloro-2-Butene			0.122	0.128	0.135	0.172	0.181	0.187	0.188	0.19	0.163	18.102	0.999		
T	n-Propylbenzene		4.488	4.058	4.181	4.561	4.565	4.44	4.134	3.285		4.214	10.090			
T	Bromobenzene	1.042	1.115	0.963	0.959	0.991	1.001	0.994	1.017	1.009	0.968	1.006	4.594			
T	1,3,5-Trimethylbenzene		2.951	2.888	2.971	3.233	3.279	3.243	3.174	2.724	2.257	2.969	11.017			
T	2-Chlorotoluene		2.885	2.615	2.679	2.742	2.717	2.657	2.609	2.793	2.246	2.660	6.708			
T	4-Chlorotoluene		2.917	2.599	2.736	2.847	2.853	2.825	2.771	1.894		2.680	12.385			
T	a-Methylstyrene				1.307	1.474	1.746	1.813	1.85	1.755	1.598	1.649	12.080			
T	tert-Butylbenzene		0.646	0.624	0.615	0.679	0.679	0.682	0.702	0.705	0.702	0.670	5.069			
T	1,2,4-Trimethylbenzene		2.905	2.727	3.111	3.221	3.368	3.329	3.218	2.708	2.224	2.979	12.553			
T	sec-Butylbenzene		3.824	3.417	3.649	4.039	4.033	3.931	3.744	3.077	2.49	3.578	14.310			
T	p-Isopropyltoluene		2.907	2.792	3.028	3.336	3.452	3.381	3.248	2.744	2.248	3.015	12.878			
T	1,3-Dichlorobenzene		1.964	1.787	1.847	1.906	1.883	1.856	1.867	1.73	1.563	1.823	6.479			
T	1,4-Dichlorobenzene	1.991	2.09	1.666	1.852	1.816	1.885	1.858	1.847	1.711	1.54	1.825	8.633			
T	n-Butylbenzene		2.23	2.125	2.332	2.679	2.907	2.885	2.791	2.457	2.046	2.495	13.294			
T	1,2-Dichlorobenzene	1.679	1.724	1.669	1.682	1.754	1.754	1.713	1.705	1.583	1.471	1.673	5.161			
T	1,2-Dibromo-3-Chloropropane				0.087	0.087	0.098	0.098	0.101	0.105	0.107	0.098	8.182			
T	1,2,4-Trichlorobenzene		0.841	0.698	0.732	0.944	1.071	1.091	1.111	1.16	1.106	0.973	18.088			0.999
T	Hexachlorobutadiene		0.486	0.394	0.424	0.467	0.456	0.43	0.438	0.472	0.465	0.448	6.438			
T	Naphthalene		0.921	0.829	1.019	1.325	1.854	1.958	2.011	1.916	1.692	1.503	32.030	0.994		
T	1,2,3-Trichlorobenzene	0.408	0.632	0.606	0.694	0.84	0.981	0.967	0.988	1.009	0.974	0.810	26.069	1.000		

Mon Jun 30 11:41:24 2014

Thu Sep 19 10:28:54 2013

Response Factor Report HPMS17

Method Path : D:\MassHunter\GCMS\1\methods\
Method File : A9FOOWT.M
Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
Last Update : Thu Oct 17 17:39:37 2013
Response Via : Initial Calibration
Curve:WG448462
Calibration Files
5 =17M000186.D 20 =17M000187.D 50 =17M000188.D 100 =17M000189.D 200 =17M000190.D 300 =17M000191.D 400 =17M00019
500 =17M000193.D

		Compound	5	20	50	100	200	300	400	500	Avg	%RSD	Linear	Quadratic
1)	I	Fluorobenzene	----------ISTD----------											
2)	T	Acetonitrile		0.015	0.016	0.016	0.018	0.018	0.019	0.018	0.017	6.99		
3)	T	3-Chloro-1-pro...	0.338	0.384	0.374	0.368	0.350	0.333	0.318	0.306	0.346	8.00		
4)	T	2-Chloro-1,3-b...	0.284	0.344	0.339	0.340	0.330	0.319	0.309	0.299	0.320	6.81		
5)	T	Methacrylonitrile	0.055	0.065	0.068	0.067	0.070	0.066	0.066	0.064	0.065	6.65		
6)	T	Ethyl Acetate	0.124	0.142	0.149	0.150	0.156	0.149	0.150	0.146	0.146	6.70		
7)	T	Isobutyl Alcohol		0.004	0.005	0.004	0.005	0.005	0.005	0.005	0.005	7.94		
8)	T	1-Butanol			0.002	0.002	0.002	0.003	0.003	0.003	0.002	24.53	0.996	
9)	T	Methyl methacr...	0.110	0.132	0.142	0.147	0.151	0.141	0.140	0.135	0.137	9.17		
10)	T	2-Nitropropane		0.039	0.048	0.051	0.056	0.055	0.056	0.055	0.051	12.15		
11)		Chlorobenzene-d5	----------ISTD----------											
12)	T	Cyclohexanone			0.004	0.004	0.005	0.005	0.006	0.006	0.005	18.06	0.993	
13)	I	1,4-Dichlorobenzen...	----------ISTD----------											

(#) = Out of Range

A9FOOWT.M Thu Oct 17 17:45:24 2013

Calibration Table Report
Method: 8260-VMS.M
Title: 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
Last Calibration: Mon Jul 14 16:49:39 2014
Curve: WG483481
Calibration Files

Compound		0.3	0.4	1	2	5	20	50	100	200	300	Avg	%RSD	R^2 Linear	R^2 Quadratic
		17M006667.D	17M006668.D	17M006669.D	17M006670.D	17M006671.D	17M006672.D	17M006673.D	17M006674.D	17M006675.D	17M006676.D				
Fluorobenzene	ISTD														
Dichlorodifluoromethane			0.172	0.193	0.173	0.181	0.224	0.218	0.209	0.214	0.212	0.200	10.124		
Chloromethane			0.249	0.243	0.221	0.221	0.246	0.241	0.231	0.238	0.238	0.236	4.323		
Vinyl Chloride			0.273	0.297	0.262	0.273	0.302	0.295	0.281	0.286	0.283	0.284	4.561		
1,3-Butadiene			0.228	0.225	0.218	0.228	0.245	0.254	0.244	0.236	0.243	0.236	4.981		
Bromomethane			0.175	0.166	0.147	0.147	0.165	0.171	0.171	0.177	0.177	0.166	7.103		
Chloroethane			0.182	0.190	0.170	0.172	0.186	0.158	0.120			0.168	14.240		
Trichlorofluoromethane			0.367	0.424	0.378	0.393	0.424	0.415	0.393			0.399	5.637		
Diethyl ether				0.189	0.180	0.182	0.193	0.202	0.196	0.192	0.196	0.191	3.820		
1,1-Dichloroethene			0.353	0.384	0.348	0.362	0.392	0.386	0.369	0.374	0.369	0.371	4.031		
Carbon Disulfide			0.803	0.773	0.715	0.757	0.788	0.834	0.818	0.802	0.825	0.791	4.732		
1,1,2-Trichloro-1,2,2-Trifluoroe			0.259	0.277	0.243	0.248	0.267	0.264	0.252	0.254	0.253	0.257	4.098		
Acrolein					0.022	0.022	0.023	0.024	0.024	0.024	0.024	0.023	3.180		
Methylene Chloride			0.289	0.304	0.271	0.275	0.288	0.282	0.272	0.277	0.276	0.281	3.729		
Acetone						0.058	0.054	0.046	0.042	0.043	0.042	0.048	14.457		
trans-1,2-Dichloroethene			0.253	0.275	0.250	0.257	0.276	0.271	0.262	0.268	0.269	0.264	3.586		
Methyl Tert Butyl Ether			0.669	0.748	0.655	0.679	0.727	0.702	0.674	0.679	0.667	0.689	4.454		
1,1-Dichloroethane			0.437	0.498	0.442	0.454	0.485	0.476	0.455	0.462	0.459	0.463	4.337		
Acrylonitrile				0.055	0.055	0.061	0.062	0.065	0.064	0.064	0.064	0.061	6.741		
Vinyl Acetate						0.018	0.023	0.023	0.022	0.022	0.019	0.021	10.119		
cis-1,2-Dichloroethene			0.287	0.314	0.286	0.293	0.314	0.308	0.297	0.304	0.305	0.301	3.598		
2,2-Dichloropropane			0.393	0.441	0.384	0.390	0.417	0.410	0.391	0.392	0.389	0.401	4.607		
Cyclohexane			0.419	0.414	0.397	0.417	0.424	0.442	0.428	0.415	0.427	0.420	2.955		
Bromochloromethane			0.143	0.190	0.176	0.187	0.210	0.209	0.202	0.206	0.206	0.192	11.339		
Chloroform			0.492	0.533	0.469	0.481	0.512	0.502	0.480	0.484	0.482	0.493	4.025		
Carbon Tetrachloride			0.339	0.394	0.358	0.392	0.420	0.421	0.406	0.412	0.412	0.395	7.191		
Dibromofluoromethane						0.298	0.310	0.302	0.301	0.303	0.304	0.303	1.363		
1,1,1-Trichloroethane			0.420	0.479	0.424	0.434	0.467	0.459	0.442	0.446	0.446	0.446	4.324		
1,1-Dichloropropene			0.338	0.372	0.336	0.347	0.372	0.367	0.354	0.358	0.358	0.356	3.803		
2-Butanone					0.079	0.078	0.080	0.072	0.071	0.072	0.070	0.075	5.656		
Benzene			1.032	1.142	1.012	1.054	1.119	1.091	1.051	1.066	1.058	1.069	3.847		
1,2-Dichloroethane-d4					0.338	0.302	0.297	0.280	0.279	0.277	0.275	0.293	7.726		
1,2-Dichloroethane			0.297	0.344	0.304	0.322	0.343	0.332	0.317	0.321	0.318	0.322	4.920		
Trichloroethene			0.321	0.344	0.308	0.318	0.334	0.329	0.322	0.329	0.337	0.327	3.338		
Dibromomethane			0.134	0.161	0.148	0.160	0.172	0.170	0.165	0.170	0.170	0.161	7.825		
1,2-Dichloropropane			0.260	0.303	0.274	0.279	0.297	0.290	0.280	0.285	0.286	0.284	4.472		
Bromodichloromethane			0.349	0.407	0.353	0.369	0.397	0.392	0.380	0.390	0.391	0.381	5.191		
1,4-Dioxane							0.002	0.002	0.002	0.002	0.002	0.002	10.249		
2-Chloroethyl Vinyl Ether					0.131	0.144	0.159	0.149	0.149	0.151	0.148	0.147	5.868		
cis-1,3-Dichloropropene			0.394	0.455	0.404	0.429	0.466	0.461	0.446	0.459	0.459	0.441	6.020		
4-Methyl-2-Pentanone						0.071	0.078	0.072	0.072	0.073	0.071	0.073	3.507		
trans-1,3-Dichloropropene			0.345	0.385	0.347	0.372	0.408	0.404	0.394	0.405	0.401	0.3845	6.3848		
Chlorobenzene-d5	ISTD														
Toluene-d8						1.525	1.532	1.473	1.424	1.429	1.454	1.4729	3.1682		
Toluene			1.651	1.811	1.574	1.636	1.749	1.706	1.612	1.595	1.578	1.6569	4.9573		
Tetrachloroethene			0.428	0.488	0.437	0.457	0.49	0.484	0.464	0.474	0.485	0.4676	4.8854		
1,1,2-Trichloroethane			0.289	0.344	0.309	0.314	0.336	0.323	0.308	0.312	0.312	0.3165	5.1224		
Dibromochloromethane			0.375	0.426	0.385	0.405	0.445	0.441	0.425	0.436	0.437	0.4194	6.0496		
1,3-Dichloropropane			0.475	0.551	0.483	0.502	0.529	0.513	0.485	0.49	0.489	0.5018	4.9034		
1,2-Dibromoethane			0.293	0.34	0.297	0.316	0.34	0.332	0.318	0.325	0.324	0.3207	5.199		
2-Hexanone					0.17	0.167	0.181	0.166	0.161	0.162	0.158	0.1663	4.6635		
Chlorobenzene				1.222	1.064	1.086	1.164	1.139	1.091	1.092	1.078	1.1169	4.8129		
1-Chlorohexane			0.073	0.082	0.083	0.09	0.094	0.101	0.097	0.095	0.099	0.0904	10.285		
Ethylbenzene			0.59	0.625	0.564	0.58	0.624	0.619	0.591	0.602	0.6	0.5996	3.4526		
1,1,1,2-Tetrachloroethane			0.387	0.432	0.396	0.412	0.442	0.434	0.414	0.421	0.415	0.4169	4.3144		
m-,p-Xylene			0.675	0.749	0.668	0.706	0.758	0.749	0.715	0.694	0.653	0.7074	5.4311		
o-Xylene			0.674	0.771	0.678	0.703	0.748	0.736	0.705	0.717	0.703	0.715	4.463		
Styrene			1.071	1.201	1.069	1.139	1.232	1.215	1.175	1.172	1.117	1.1546	5.1635		
Bromoform			0.233	0.297	0.271	0.284	0.314	0.317	0.309	0.32	0.314	0.2956	9.701		
Isopropylbenzene			1.71	1.951	1.74	1.832	1.949	1.922	1.816	1.763	1.642	1.8138	6.0908		
1,4-Dichlorobenzene-d4	ISTD														
1,3,5-Trimethylbenzene			3.051	3.302	2.937	3.076	3.255	3.22	3.014	2.865	2.758	3.053	6.0004		
p-Bromofluorobenzene						1.081	1.125	1.092	1.063	1.065	1.11	1.0892	2.2757		
Bromobenzene			0.94	1.05	0.971	0.969	1.03	1.016	0.975	0.99	1.013	0.9949	3.5115		
n-Propylbenzene			3.867	4.29	3.778	4.041	4.305	4.268	3.982	3.765	3.586	3.987	6.5338		
1,1,2,2-Tetrachloroethane			0.727	0.801	0.735	0.735	0.791	0.77	0.717	0.72	0.711	0.7453	4.4835		
2-Chlorotoluene			2.464	2.713	2.376	2.441	2.541	2.526	2.368	2.318	2.289	2.4486	5.3859		
1,2,3-Trichloropropane			0.185	0.232	0.202	0.205	0.215	0.209	0.198	0.196	0.193	0.204	6.7502		
1,2,4-Trimethylbenzene			2.896	3.262	2.931	3.036	3.255	3.205	2.997	2.858	2.758	3.0219	6.0519		
4-Chlorotoluene			2.479	2.686	2.384	2.443	2.607	2.595	2.443	2.395	2.366	2.4887	4.5592		
tert-Butylbenzene			0.544	0.64	0.592	0.599	0.618	0.61	0.573	0.574	0.581	0.5924	4.7923		
sec-Butylbenzene			3.578	4.005	3.58	3.781	4.05	4.011	3.734	3.479	3.3	3.7243	7.059		
p-Isopropyltoluene			2.979	3.267	2.928	3.108	3.439	3.431	3.201	2.994	2.853	3.1332	6.8579		
1,3-Dichlorobenzene			1.698	1.897	1.667	1.751	1.873	1.876	1.775	1.756	1.738	1.7813	4.6109		
1,4-Dichlorobenzene			1.765	1.877	1.693	1.741	1.894	1.895	1.8	1.777	1.763	1.8007	4.0296		
n-Butylbenzene			2.166	2.418	2.169	2.437	2.868	2.963	2.815	2.687	2.577	2.5667	11.378		
1,2-Dichlorobenzene			1.629	1.802	1.662	1.726	1.853	1.835	1.72	1.7	1.688	1.7351	4.4959		
1,2-Dibromo-3-Chloropropane			0.093	0.118	0.114	0.124	0.138	0.137	0.133	0.132	0.133	0.1246	11.826		
Hexachlorobutadiene			0.663	0.744	0.668	0.712	0.795	0.808	0.776	0.781	0.793	0.7491	7.431		
1,2,4-Trichlorobenzene			0.894	1.017	0.955	1.06	1.299	1.37	1.329	1.343	1.342	1.1788	16.382		1

Naphthalene	1.624	1.783	1.684	1.875	2.324	2.442	2.401	2.398	2.358	2.0987	16.54	1
1,2,3-Trichlorobenzene		0.96	0.898	1.004	1.219	1.264	1.224	1.237	1.249	1.1321	13.307	

Mon Jul 14 16:49:50 2014

Calibration Table Report
Method: A9FOOWT.M
Title: FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Calibration: Tue Aug 20 15:10:19 2013
Curve: WG441888
Calibration Files

Compound	5 9M957895.D	20 9M957896.D	50 9M957897.D	100 9M957898.D	200 9M957899.D	300 9M957900.D	400 9M957901.D	500 9M957902.D	Avg	%RSD
Fluorobenzene	ISTD									
Acetonitrile	0.020	0.022	0.023	0.021	0.022	0.021	0.022	0.023	0.022	3.924
3-Chloro-1-propene	0.338	0.346	0.375	0.349	0.358	0.348	0.343	0.363	0.352	3.490
2-Chloro-1,3-butadiene	0.338	0.363	0.398	0.373	0.390	0.382	0.380	0.403	0.378	5.543
Ethyl Acetate	0.150	0.169	0.184	0.171	0.174	0.169	0.166	0.176	0.170	5.676
Methacrylonitrile	0.072	0.083	0.091	0.084	0.088	0.086	0.086	0.093	0.086	7.408
Isobutyl Alcohol	0.014	0.015	0.015	0.013	0.014	0.014	0.015	0.016	0.015	6.105
1-Butanol		0.003	0.003	0.003	0.004	0.004	0.004		0.004	12.474
Methyl methacrylate	0.164	0.173	0.191	0.178	0.183	0.180	0.177	0.189	0.179	4.819
2-Nitropropane	0.048	0.051	0.057	0.056	0.061	0.060	0.060	0.065	0.057	10.037
Chlorobenzene-d5	ISTD									
Cyclohexanone	0.044	0.032	0.036	0.034	0.035	0.034	0.035	0.037	0.036	10.211
1,4-Dichlorobenzene-d4	ISTD									

Tue Aug 20 15:10:40 2013

Calibration Table Report
Method: 8260WTR.M
Title: 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Calibration: Fri Jun 27 11:04:25 2014
Curve: WG482030
Calibration Files

Compound	0.3 9M964348.D	0.4 9M964349.D	1 9M964350.D	2 9M964351.D	5 9M964352.D	20 9M964353.D	50 9M964354.D	100 9M964355.D	200 9M964356.D	300 9M964357.D	Avg	%RSD	R^2 Linear	R^2 Quadratic
Fluorobenzene	ISTD													
Dichlorodifluoromethane		0.142	0.205	0.178	0.192	0.217	0.235	0.220	0.221	0.226	0.204	14.316		
Chloromethane			0.643	0.553	0.593	0.616	0.592	0.514	0.495	0.489	0.562	10.295		
Vinyl Chloride		0.346	0.434	0.364	0.357	0.399	0.390	0.365	0.369	0.317	0.371	8.963		
1,3-Butadiene				0.432	0.284	0.397	0.314	0.281	0.264	0.254	0.318	21.791	0.991	
Bromomethane		0.253	0.258	0.247	0.224	0.209	0.219	0.207	0.214	0.220	0.228	8.637		
Chloroethane		0.220	0.220	0.210	0.218	0.235	0.251	0.240	0.245	0.252	0.232	6.777		
Trichlorofluoromethane		0.379	0.398	0.365	0.372	0.392	0.403	0.378	0.383	0.382	0.384	3.177		
Diethyl ether			0.371	0.332		0.347	0.356	0.338		0.327	0.345	4.835		
Isoprene		0.344	0.338	0.353	0.357	0.392	0.397	0.385	0.372	0.368	0.367	5.720		
Acrolein			0.073	0.068		0.069	0.071	0.067		0.065	0.069	4.324		
1,1,2-Trichloro-1,2,2-Trifluoroet		0.190	0.226	0.228	0.222	0.223	0.231	0.217	0.221	0.222	0.220	5.517		
Acetone				0.124	0.109	0.103	0.106	0.100	0.097	0.096	0.105	9.106		
1,1-Dichloroethene		0.523	0.542	0.517	0.520	0.540	0.564	0.523	0.526	0.521	0.531	2.886		
Tert-Butyl Alcohol			0.042	0.035		0.035	0.036	0.038		0.044	0.038	9.242		
Dimethyl Sulfide		0.407	0.419	0.378	0.419	0.429	0.447	0.423	0.409	0.409	0.416	4.501		
Iodomethane			0.104	0.121	0.223	0.276	0.320	0.321	0.323	0.323	0.251	36.798	0.999	
Methyl acetate			0.368	0.359	0.360	0.344	0.350	0.338	0.317	0.318	0.344	5.555		
Methylene Chloride		0.267	0.298	0.275	0.279	0.285	0.294	0.274	0.275	0.278	0.281	3.532		
Carbon Disulfide		0.769	0.803	0.704	0.727	0.774	0.786	0.749	0.716	0.711	0.749	4.801		
Acrylonitrile			0.164	0.148		0.165	0.180	0.173		0.179	0.168	7.103		
Methyl Tert Butyl Ether		0.654	0.810	0.720	0.766	0.769	0.803	0.752	0.746	0.732	0.750	6.221		
trans-1,2-Dichloroethene		0.549	0.548	0.494	0.523	0.523	0.549	0.510	0.509	0.505	0.523	3.994		
n-Hexane		0.553	0.531	0.492	0.503	0.548	0.564	0.547	0.518	0.509	0.529	4.740		
Diisopropyl ether			1.490	1.411		1.464	1.493	1.362		1.249	1.412	6.694		
Vinyl Acetate				0.558	0.550	0.543	0.563	0.469	0.453	0.439	0.511	10.646		
1,1-Dichloroethane		0.668	0.679	0.657	0.650	0.654	0.674	0.627	0.619	0.607	0.649	3.912		
Ethyl-Tert-Butyl ether			1.336	1.264		1.302	1.332	1.241		1.179	1.276	4.727		
2-Butanone					0.179	0.169	0.176	0.164	0.161	0.163	0.169	4.278		
Propionitrile			0.057	0.056		0.059	0.062	0.061		0.063	0.060	4.587		
2,2-Dichloropropane		0.412	0.448	0.386	0.397	0.402	0.413	0.384	0.383	0.376	0.400	5.554		
cis-1,2-Dichloroethene		0.342	0.306	0.295	0.295	0.298	0.308	0.289	0.290	0.285	0.301	5.720		
Chloroform	0.477	0.563	0.521	0.485	0.482	0.487	0.502	0.463	0.465	0.455	0.490	6.526		
1-Bromopropane			0.032	0.039	0.047	0.046	0.050	0.047	0.047	0.047	0.044	12.980		
Bromochloromethane		0.208	0.195	0.172	0.180	0.181	0.186	0.177	0.179	0.176	0.184	6.089		
Tetrahydrofuran			0.119	0.108		0.114	0.120	0.114		0.109	0.114	4.083		
Dibromofluoromethane			0.336	0.227	0.261	0.257	0.267	0.259	0.257	0.258	0.265	11.680		
1,1,1-Trichloroethane		0.382	0.428	0.409	0.414	0.432	0.447	0.421	0.429	0.426	0.421	4.314		
Cyclohexane		0.663	0.727	0.669	0.691	0.730	0.745	0.726	0.700	0.680	0.703	4.214		
1,1-Dichloropropene		0.374	0.388	0.320	0.350	0.348	0.364	0.343	0.345	0.344	0.353	5.648		
Tert-Amyl-Methyl ether			0.790	0.740		0.781	0.788	0.739		0.719	0.759	4.005		
Carbon Tetrachloride		0.37954	0.37924	0.32652	0.35081	0.37789	0.39196	0.36999	0.37903	0.3771	0.37023	5.32634		
1,2-Dichloroethane-d4				0.35488	0.36684	0.35638	0.3661	0.351	0.34502	0.34197	0.3546	2.69952		
Heptane											0	0		
1,2-Dichloroethane		0.44176	0.48714	0.46134	0.48292	0.47229	0.49433	0.4626	0.45939	0.44834	0.46779	3.79605		
Benzene		1.19151	1.17089	1.07627	1.05519	1.0624	1.09676	1.00664	0.97291	0.9205	1.06145	8.23402		
Trichloroethene		0.36855	0.33551	0.30416	0.29243	0.29426	0.29919	0.28235	0.27969	0.2771	0.30369	9.8739		
Methylcyclohexane		0.38128	0.38969	0.37637	0.37959	0.41456	0.42094	0.41369	0.39428	0.39032	0.39564	4.21446		
1,2-Dichloropropane		0.38489	0.40276	0.35936	0.38423	0.38505	0.39799	0.37417	0.37304	0.36962	0.38124	3.60507		
1,4-Dioxane				0.00242		0.00236	0.00282	0.00292		0.00341	0.00279	15.2295	FAIL	
Bromodichloromethane		0.36207	0.37811	0.34546	0.37861	0.38151	0.40353	0.37789	0.38246	0.37856	0.37647	4.17495		
Dibromomethane		0.13467	0.17013	0.16738	0.17576	0.1785	0.19101	0.18289	0.18501	0.18431	0.17441	9.55861		
2-Chloroethyl Vinyl Ether			0.19575	0.18025	0.20576	0.2111	0.22676	0.21414	0.21331	0.21272	0.20747	6.74959		
4-Methyl-2-Pentanone				0.13152	0.15431	0.15342	0.16342	0.15759	0.16194	0.16997	0.15602	7.83574		
cis-1,3-Dichloropropene		0.41479	0.44714	0.42094	0.45057	0.44843	0.47199	0.44273	0.4421	0.43635	0.44167	3.80175		
Dimethyl Disulfide			0.37651	0.37224	0.44877	0.49419	0.54364	0.5244	0.51392	0.50718	0.47261	14.0747		
Chlorobenzene-d5	ISTD													
Toluene-d8				1.26119	1.31116	1.30709	1.31515	1.21226	1.13585	1.10325	1.23514	7.07478		
Toluene		1.68611	1.67888	1.4458	1.53938	1.54117	1.56183	1.40161	1.28751	1.17906	1.48015	11.4785		
Ethyl Methacrylate			0.3865	0.38674	0.43385	0.44715	0.46806	0.44243	0.42276	0.4168	0.42554	6.73116		
trans-1,3-Dichloropropene		0.54046	0.6368	0.56454	0.57669	0.58342	0.59974	0.55559	0.52896	0.50761	0.56598	6.87531		
1,1,2-Trichloroethane		0.31718	0.34248	0.30845	0.33583	0.33175	0.33475	0.30809	0.2966	0.28771	0.31809	6.0391		
2-Hexanone				0.32202	0.346	0.34685	0.36438	0.34108	0.33447	0.33844	0.34189	3.79481		
1,3-Dichloropropane		0.57732	0.6416	0.56251	0.57111	0.57086	0.58374	0.53435	0.50274	0.48719	0.55905	8.24572		
Tetrachloroethene		0.31506	0.35439	0.27752	0.29839	0.31839	0.32495	0.3027	0.29303	0.28542	0.30776	7.60292		
Dibromochloromethane		0.38995	0.38318	0.3853	0.3792	0.39057	0.4138	0.38744	0.38148	0.37728	0.38758	2.7971		
1,2-Dibromoethane		0.30925	0.34361	0.31173	0.32574	0.33162	0.34949	0.32472	0.31632	0.3077	0.32447	4.60616		
1-Chlorohexane		0.43769	0.45418	0.3973	0.43632	0.46193	0.47612	0.45668	0.42634	0.41473	0.44014	5.64076		
Chlorobenzene		1.09517	1.11964	1.01093	1.00649	1.00998	1.02506	0.93871	0.87753	0.82853	0.99023	9.55119		
1,1,1,2-Tetrachloroethane		0.37548	0.40485	0.35183	0.37544	0.38115	0.38849	0.36568	0.35212	0.34973	0.37164	5.02994		
Ethylbenzene		0.56073	0.60014	0.53547	0.56036	0.55871	0.58322	0.53026	0.50204	0.48027	0.54569	6.9516		
m-,p-Xylene		0.67206	0.70877	0.63726	0.66504	0.66803	0.6961	0.62276	0.57972	0.53261	0.64249	8.82748		
o-Xylene		0.72286	0.68163	0.66588	0.67086	0.66753	0.69443	0.64562	0.62387	0.60297	0.66396	5.44012		
Styrene		0.94625	1.01526	0.98407	1.08796	1.11664	1.16945	1.082	1.03352	0.98348	1.04652	6.93013		
Bromoform			0.2732	0.23864	0.27099	0.28433	0.30386	0.29508	0.29976	0.30789	0.28422	8.06663		
Isopropylbenzene		1.71495	1.68582	1.53226	1.63548	1.67974	1.7278	1.57855	1.46822	1.358	1.59787	7.83745		
1,4-Dichlorobenzene-d4	ISTD													
1,1,2,2-Tetrachloroethane		0.5002	0.66955	0.58901	0.67352	0.64784	0.69611	0.63433	0.66103	0.65571	0.63637	9.28886		
p-Bromofluorobenzene				1.04241	0.91777	0.88467	0.93839	0.85555	0.85183	0.82331	0.90199	8.15396		
1,2,3-Trichloropropane			0.20794	0.22081	0.23064	0.21818	0.23135	0.21948	0.21599	0.21426	0.21983	3.6089		

trans-1,4-Dichloro-2-Butene		0.32041	0.27829	0.35103	0.3461	0.37634	0.34373	0.3397	0.33024	0.33573	8.45107
n-Propylbenzene		3.78859	3.69971	3.52442	3.7111	3.66888	3.77978	3.31798	3.01951	2.53543	3.44949	12.3273
Bromobenzene	0.86994	0.88029	0.8656	0.83396	0.80815	0.7983	0.83529	0.76647	0.75412	0.70959	0.81217	6.87144
1,3,5-Trimethylbenzene		2.49577	2.59485	2.53479	2.56097	2.56191	2.66184	2.39958	2.28619	2.02318	2.45768	8.02256
2-Chlorotoluene		2.81096	2.67455	2.08991	2.47064	2.23456	2.26106	2.30974	2.10574	1.8847	2.31576	12.6681
4-Chlorotoluene		2.07195	2.34532	1.86221	2.07672	2.22162	2.31144	1.79349	1.78162	1.59442	2.00653	13.0657
a-Methylstyrene			1.15478	1.13091	1.31394	1.36336	1.44382	1.37259	1.28706	1.20822	1.28433	8.65379
tert-Butylbenzene		0.49577	0.62391	0.50528	0.57977	0.57131	0.58842	0.53022	0.5221	0.49111	0.54532	8.61606
1,2,4-Trimethylbenzene		2.70818	2.82966	2.5824	2.68593	2.6357	2.72186	2.4332	2.29246	2.03621	2.54729	9.8488
sec-Butylbenzene		3.35732	3.35826	3.0175	3.22407	3.25625	3.36855	3.0097	2.78094	2.41999	3.08806	10.3847
p-Isopropyltoluene		2.49657	2.77027	2.46781	2.63724	2.65636	2.77655	2.50732	2.33857	2.09174	2.52694	8.62619
1,3-Dichlorobenzene		1.66264	1.60805	1.45403	1.51008	1.51192	1.57743	1.44753	1.39532	1.30709	1.49712	7.36741
1,4-Dichlorobenzene	1.58697	1.74788	1.69665	1.51452	1.5632	1.53399	1.59012	1.4681	1.40606	1.32103	1.54285	8.21757
n-Butylbenzene		2.41395	2.6235	2.3297	2.46578	2.48625	2.6366	2.35708	2.21232	1.99407	2.39103	8.41615
1,2-Dichlorobenzene	1.51561	1.36558	1.63685	1.45576	1.52105	1.50698	1.58569	1.44952	1.38609	1.30944	1.47326	6.8447
1,2-Dibromo-3-Chloropropane				0.12203	0.1484	0.1582	0.17921	0.17232	0.17407	0.17406	0.16118	12.6297
1,2,4-Trichlorobenzene	1.30504	1.08283	1.08916	0.95888	1.11082	1.08625	1.17532	1.10893	1.10207	1.05207	1.10714	7.97814
Hexachlorobutadiene		0.52197	0.5354	0.51549	0.55054	0.55323	0.61869	0.58108	0.58363	0.56257	0.55807	5.87083
Naphthalene		2.24143	2.39144	2.33146	2.48904	2.55107	2.74681	2.51307	2.35633	2.06427	2.40944	8.13756
1,2,3-Trichlorobenzene		1.1316	1.15502	1.03169	1.05636	1.05086	1.16322	1.07018	1.07333	1.00259	1.08165	5.17502

Fri Jun 27 11:11:43 2014

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L14070607 Run Date: 06/27/2014 Sample ID: WG482009-12
Instrument ID: HPMS11 Run Time: 21:34 Method: 8260B
File ID: 11M02161 Analyst: FJB QC Key: STD
ICal Workgroup: WG482009 Cal ID: HPMS11 - 27-JUN-14

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	50.0	51.7	ug/L	0.581	3.30	30	
1,1-Dichloroethene	CCC	50.0	50.6	ug/L	0.464	1.30	30	
1,2-Dichloropropane	CCC	50.0	51.4	ug/L	0.311	2.80	30	
Ethylbenzene	CCC	50.0	51.9	ug/L	0.707	3.80	30	
Toluene	CCC	50.0	53.8	ug/L	1.81	7.60	30	
Vinyl Chloride	CCC	50.0	58.8	ug/L	0.501	17.6	30	
Bromoform	SPCC	50.0	52.3	ug/L	0.244	4.50	30	
Chlorobenzene	SPCC	50.0	49.2	ug/L	1.19	1.70	30	
Chloromethane	SPCC	50.0	57.4	ug/L	0.543	14.9	30	
1,1-Dichloroethane	SPCC	50.0	51.1	ug/L	0.560	2.10	30	
1,1,2,2-Tetrachloroethane	SPCC	50.0	47.2	ug/L	0.635	5.60	30	
Acetone		50.0	51.4	ug/L	0.0519	2.90	30	
Benzene		50.0	52.6	ug/L	1.28	5.30	30	
Bromobenzene		50.0	48.6	ug/L	0.978	2.80	30	
Bromochloromethane		50.0	52.4	ug/L	0.219	4.70	30	
Bromodichloromethane		50.0	50.5	ug/L	0.425	1.10	30	
Bromomethane		50.0	55.7	ug/L	0.267	11.4	30	
2-Butanone		50.0	51.6	ug/L	0.0748	3.30	30	
n-Butylbenzene		50.0	61.0	ug/L	3.04	22.0	30	
sec-Butylbenzene		50.0	52.0	ug/L	3.72	3.90	30	
tert-Butylbenzene		50.0	47.9	ug/L	0.643	4.20	30	
Carbon Disulfide		50.0	47.3	ug/L	0.907	5.50	30	
Carbon Tetrachloride		50.0	53.5	ug/L	0.501	6.90	30	
Dibromochloromethane		50.0	52.1	ug/L	0.419	4.10	30	
Chloroethane		50.0	56.2	ug/L	0.240	12.4	30	
2-Chloroethyl Vinyl Ether		50.0	52.5	ug/L	0.145	5.10	30	
2-Chlorotoluene		50.0	47.4	ug/L	2.52	5.30	30	
4-Chlorotoluene		50.0	49.0	ug/L	2.63	1.90	30	
1,2-Dibromo-3-Chloropropane		50.0	53.9	ug/L	0.105	7.70	30	
1,2-Dibromoethane		50.0	49.3	ug/L	0.312	1.40	30	
Dibromomethane		50.0	49.8	ug/L	0.172	0.400	30	
1,2-Dichlorobenzene		50.0	48.8	ug/L	1.63	2.30	30	
1,3-Dichlorobenzene		50.0	48.6	ug/L	1.77	2.70	30	
1,4-Dichlorobenzene		50.0	52.1	ug/L	1.90	4.20	30	
Dichlorodifluoromethane		50.0	78.8	ug/L	0.427	57.7	30	*
1,2-Dichloroethane		50.0	49.1	ug/L	0.388	1.80	30	
cis-1,2-Dichloroethene		50.0	51.9	ug/L	0.377	3.80	30	
trans-1,2-Dichloroethene		50.0	52.2	ug/L	0.350	4.50	30	
1,3-Dichloropropane		50.0	48.8	ug/L	0.536	2.40	30	
2,2-Dichloropropane		50.0	48.6	ug/L	0.478	2.90	30	
cis-1,3-Dichloropropene		50.0	55.0	ug/L	0.519	10.0	30	
trans-1,3-Dichloropropene		50.0	50.5	ug/L	0.548	1.00	30	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L14070607 Run Date: 06/27/2014 Sample ID: WG482009-12
Instrument ID: HPMS11 Run Time: 21:34 Method: 8260B
File ID: 11M02161 Analyst: FJB QC Key: STD
ICal Workgroup: WG482009 Cal ID: HPMS11 - 27-JUN-14

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	52.3	ug/L	0.456	4.60	30	
2-Hexanone		50.0	57.0	ug/L	0.150	14.0	30	
Hexachlorobutadiene		50.0	53.8	ug/L	0.482	7.50	30	
Isopropylbenzene		50.0	52.5	ug/L	1.89	5.10	30	
p-Isopropyltoluene		50.0	53.8	ug/L	3.24	7.50	30	
4-Methyl-2-Pentanone		50.0	54.8	ug/L	0.0698	9.70	30	
Methylene Chloride		50.0	49.0	ug/L	0.332	2.00	30	
Naphthalene		50.0	58.0	ug/L	2.11	16.1	30	
n-Propylbenzene		50.0	48.1	ug/L	4.05	3.90	30	
Styrene		50.0	58.1	ug/L	1.36	16.2	30	
1,1,1,2-Tetrachloroethane		50.0	51.4	ug/L	0.466	2.80	30	
Tetrachloroethene		50.0	49.9	ug/L	0.380	0.100	30	
1,2,3-Trichlorobenzene		50.0	54.3	ug/L	1.07	8.60	30	
1,2,4-Trichlorobenzene		50.0	53.7	ug/L	1.19	7.40	30	
1,1,1-Trichloroethane		50.0	52.2	ug/L	0.545	4.50	30	
1,1,2-Trichloroethane		50.0	49.1	ug/L	0.314	1.80	30	
Trichloroethene		50.0	51.5	ug/L	0.386	3.00	30	
Trichlorofluoromethane		50.0	57.5	ug/L	0.578	14.9	30	
1,2,3-Trichloropropane		50.0	48.5	ug/L	0.198	3.10	30	
1,2,4-Trimethylbenzene		50.0	57.3	ug/L	3.41	14.6	30	
1,3,5-Trimethylbenzene		50.0	56.4	ug/L	3.35	12.7	30	
Vinyl Acetate		50.0	90.2	ug/L	0.444	80.4	40	*
o-Xylene		50.0	49.0	ug/L	0.766	2.10	30	
m-,p-Xylene		100	106	ug/L	0.812	6.20	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L14070607 Run Date: 07/09/2014 Sample ID: WG483481-12
Instrument ID: HPMS17 Run Time: 20:30 Method: 8260B
File ID: 17M006678 Analyst: ADC QC Key: STD
ICal Workgroup: WG483481 Cal ID: HPMS17 - 09-JUL-14

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	50.0	49.2	ug/L	0.485	1.60	30	
1,1-Dichloroethene	CCC	50.0	47.7	ug/L	0.354	4.60	30	
1,2-Dichloropropane	CCC	50.0	50.0	ug/L	0.284	0.100	30	
Ethylbenzene	CCC	50.0	49.4	ug/L	0.592	1.30	30	
Toluene	CCC	50.0	49.6	ug/L	1.64	0.800	30	
Vinyl Chloride	CCC	50.0	57.2	ug/L	0.325	14.4	30	
Bromoform	SPCC	50.0	51.8	ug/L	0.307	3.70	30	
Chlorobenzene	SPCC	50.0	46.6	ug/L	1.04	6.70	30	
Chloromethane	SPCC	50.0	62.6	ug/L	0.296	25.3	30	
1,1-Dichloroethane	SPCC	50.0	48.6	ug/L	0.450	2.70	30	
1,1,2,2-Tetrachloroethane	SPCC	50.0	46.3	ug/L	0.690	7.40	30	
Acetone		50.0	53.1	ug/L	0.0505	6.20	30	
Benzene		50.0	50.7	ug/L	1.08	1.30	30	
Bromobenzene		50.0	49.4	ug/L	0.984	1.10	30	
Bromochloromethane		50.0	51.8	ug/L	0.199	3.60	30	
Bromodichloromethane		50.0	49.2	ug/L	0.375	1.50	30	
Bromomethane		50.0	54.8	ug/L	0.182	9.70	30	
2-Butanone		50.0	54.2	ug/L	0.0809	8.40	30	
n-Butylbenzene		50.0	57.0	ug/L	2.93	14.0	30	
sec-Butylbenzene		50.0	48.4	ug/L	3.60	3.20	30	
tert-Butylbenzene		50.0	46.5	ug/L	0.551	7.00	30	
Carbon Disulfide		50.0	40.5	ug/L	0.640	19.1	30	
Carbon Tetrachloride		50.0	50.7	ug/L	0.401	1.40	30	
Dibromochloromethane		50.0	50.3	ug/L	0.422	0.700	30	
Chloroethane		50.0	33.1	ug/L	0.111	33.8	30	*
2-Chloroethyl Vinyl Ether		50.0	54.1	ug/L	0.159	8.20	30	
2-Chlorotoluene		50.0	46.7	ug/L	2.29	6.50	30	
4-Chlorotoluene		50.0	46.2	ug/L	2.30	7.60	30	
1,2-Dibromo-3-Chloropropane		50.0	52.0	ug/L	0.130	4.00	30	
1,2-Dibromoethane		50.0	48.5	ug/L	0.311	3.00	30	
Dibromomethane		50.0	51.1	ug/L	0.165	2.30	30	
1,2-Dichlorobenzene		50.0	48.5	ug/L	1.68	2.90	30	
1,3-Dichlorobenzene		50.0	47.9	ug/L	1.71	4.20	30	
1,4-Dichlorobenzene		50.0	51.7	ug/L	1.86	3.30	30	
Dichlorodifluoromethane		50.0	83.5	ug/L	0.333	67.0	30	*
1,2-Dichloroethane		50.0	49.7	ug/L	0.320	0.600	30	
cis-1,2-Dichloroethene		50.0	50.5	ug/L	0.304	1.10	30	
trans-1,2-Dichloroethene		50.0	51.6	ug/L	0.273	3.10	30	
1,3-Dichloropropane		50.0	48.3	ug/L	0.485	3.40	30	
2,2-Dichloropropane		50.0	45.6	ug/L	0.365	8.90	30	
cis-1,3-Dichloropropene		50.0	52.2	ug/L	0.461	4.40	30	
trans-1,3-Dichloropropene		50.0	48.2	ug/L	0.371	3.60	30	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L14070607 Run Date: 07/09/2014 Sample ID: WG483481-12
Instrument ID: HPMS17 Run Time: 20:30 Method: 8260B
File ID: 17M006678 Analyst: ADC QC Key: STD
ICal Workgroup: WG483481 Cal ID: HPMS17 - 09-JUL-14

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	49.9	ug/L	0.355	0.200	30	
2-Hexanone		50.0	52.5	ug/L	0.175	5.00	30	
Hexachlorobutadiene		50.0	53.4	ug/L	0.799	6.70	30	
Isopropylbenzene		50.0	47.9	ug/L	1.74	4.30	30	
p-Isopropyltoluene		50.0	49.2	ug/L	3.08	1.60	30	
4-Methyl-2-Pentanone		50.0	54.8	ug/L	0.0799	9.60	30	
Methylene Chloride		50.0	49.5	ug/L	0.278	1.10	30	
Naphthalene		50.0	48.4	ug/L	2.29	3.30	30	
n-Propylbenzene		50.0	46.9	ug/L	3.74	6.20	30	
Styrene		50.0	51.6	ug/L	1.19	3.10	30	
1,1,1,2-Tetrachloroethane		50.0	49.3	ug/L	0.411	1.40	30	
Tetrachloroethene		50.0	49.1	ug/L	0.459	1.90	30	
1,2,3-Trichlorobenzene		50.0	53.6	ug/L	1.21	7.10	30	
1,2,4-Trichlorobenzene		50.0	49.9	ug/L	1.33	0.300	30	
1,1,1-Trichloroethane		50.0	49.5	ug/L	0.442	1.00	30	
1,1,2-Trichloroethane		50.0	48.7	ug/L	0.309	2.50	30	
Trichloroethene		50.0	51.2	ug/L	0.335	2.40	30	
Trichlorofluoromethane		50.0	28.2	ug/L	0.225	43.7	30	*
1,2,3-Trichloropropane		50.0	47.8	ug/L	0.195	4.50	30	
1,2,4-Trimethylbenzene		50.0	52.4	ug/L	3.16	4.70	30	
1,3,5-Trimethylbenzene		50.0	52.1	ug/L	3.18	4.10	30	
Vinyl Acetate		50.0	101	ug/L	0.0425	102	40	*
o-Xylene		50.0	46.5	ug/L	0.664	7.10	30	
m-,p-Xylene		100	99.3	ug/L	0.703	0.700	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L14070607 Run Date: 06/26/2014 Sample ID: WG482030-12
Instrument ID: HPMS9 Run Time: 21:16 Method: 8260B
File ID: 9M964359 Analyst: ADC QC Key: STD
ICal Workgroup: WG482030 Cal ID: HPMS9 - 26-JUN-14

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	50.0	46.6	ug/L	0.457	6.80	30	
1,1-Dichloroethene	CCC	50.0	46.6	ug/L	0.495	6.80	30	
1,2-Dichloropropane	CCC	50.0	47.7	ug/L	0.364	4.50	30	
Ethylbenzene	CCC	50.0	49.1	ug/L	0.535	1.90	30	
Toluene	CCC	50.0	48.9	ug/L	1.45	2.20	30	
Vinyl Chloride	CCC	50.0	50.5	ug/L	0.375	1.10	30	
Bromoform	SPCC	50.0	51.5	ug/L	0.293	3.00	30	
Chlorobenzene	SPCC	50.0	45.9	ug/L	0.909	8.20	30	
Chloromethane	SPCC	50.0	51.1	ug/L	0.574	2.20	30	
1,1-Dichloroethane	SPCC	50.0	46.4	ug/L	0.602	7.20	30	
1,1,2,2-Tetrachloroethane	SPCC	50.0	44.7	ug/L	0.569	10.6	30	
Acetone		50.0	44.2	ug/L	0.0931	11.5	30	
Benzene		50.0	48.6	ug/L	1.03	2.90	30	
Bromobenzene		50.0	45.8	ug/L	0.743	8.50	30	
Bromochloromethane		50.0	47.4	ug/L	0.174	5.20	30	
Bromodichloromethane		50.0	47.4	ug/L	0.357	5.10	30	
Bromomethane		50.0	51.2	ug/L	0.234	2.50	30	
2-Butanone		50.0	46.1	ug/L	0.156	7.70	30	
n-Butylbenzene		50.0	51.4	ug/L	2.46	2.80	30	
sec-Butylbenzene		50.0	45.2	ug/L	2.79	9.60	30	
tert-Butylbenzene		50.0	44.9	ug/L	0.490	10.1	30	
Carbon Disulfide		50.0	45.0	ug/L	0.674	10.0	30	
Carbon Tetrachloride		50.0	49.8	ug/L	0.369	0.300	30	
Dibromochloromethane		50.0	49.3	ug/L	0.382	1.40	30	
Chloroethane		50.0	56.2	ug/L	0.261	12.4	30	
2-Chloroethyl Vinyl Ether		50.0	49.5	ug/L	0.205	1.10	30	
2-Chlorotoluene		50.0	45.8	ug/L	2.12	8.40	30	
4-Chlorotoluene		50.0	40.9	ug/L	1.64	18.3	30	
1,2-Dibromo-3-Chloropropane		50.0	53.3	ug/L	0.172	6.70	30	
1,2-Dibromoethane		50.0	48.2	ug/L	0.313	3.60	30	
Dibromomethane		50.0	52.0	ug/L	0.181	4.00	30	
1,2-Dichlorobenzene		50.0	48.1	ug/L	1.42	3.80	30	
1,3-Dichlorobenzene		50.0	45.9	ug/L	1.37	8.20	30	
1,4-Dichlorobenzene		50.0	49.3	ug/L	1.52	1.40	30	
Dichlorodifluoromethane		50.0	78.7	ug/L	0.321	57.5	30	*
1,2-Dichloroethane		50.0	47.5	ug/L	0.445	4.90	30	
cis-1,2-Dichloroethene		50.0	47.8	ug/L	0.288	4.40	30	
trans-1,2-Dichloroethene		50.0	49.5	ug/L	0.519	0.900	30	
1,3-Dichloropropane		50.0	45.8	ug/L	0.512	8.40	30	
2,2-Dichloropropane		50.0	43.1	ug/L	0.344	13.9	30	
cis-1,3-Dichloropropene		50.0	49.6	ug/L	0.438	0.900	30	
trans-1,3-Dichloropropene		50.0	44.5	ug/L	0.504	10.9	30	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L14070607 Run Date: 06/26/2014 Sample ID: WG482030-12
Instrument ID: HPMS9 Run Time: 21:16 Method: 8260B
File ID: 9M964359 Analyst: ADC QC Key: STD
ICal Workgroup: WG482030 Cal ID: HPMS9 - 26-JUN-14

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	48.5	ug/L	0.342	3.00	30	
2-Hexanone		50.0	49.1	ug/L	0.336	1.90	30	
Hexachlorobutadiene		50.0	57.5	ug/L	0.641	14.9	30	
Isopropylbenzene		50.0	47.5	ug/L	1.52	5.00	30	
p-Isopropyltoluene		50.0	46.9	ug/L	2.37	6.20	30	
4-Methyl-2-Pentanone		50.0	50.0	ug/L	0.156	0	30	
Methylene Chloride		50.0	50.3	ug/L	0.282	0.700	30	
Naphthalene		50.0	56.1	ug/L	2.70	12.1	30	
n-Propylbenzene		50.0	42.4	ug/L	2.93	15.2	30	
Styrene		50.0	52.7	ug/L	1.10	5.30	30	
1,1,1,2-Tetrachloroethane		50.0	49.3	ug/L	0.367	1.40	30	
Tetrachloroethene		50.0	50.1	ug/L	0.308	0.100	30	
1,2,3-Trichlorobenzene		50.0	54.3	ug/L	1.17	8.60	30	
1,2,4-Trichlorobenzene		50.0	55.6	ug/L	1.23	11.3	30	
1,1,1-Trichloroethane		50.0	50.3	ug/L	0.423	0.500	30	
1,1,2-Trichloroethane		50.0	47.6	ug/L	0.303	4.80	30	
Trichloroethene		50.0	49.1	ug/L	0.298	1.90	30	
Trichlorofluoromethane		50.0	54.3	ug/L	0.417	8.70	30	
1,2,3-Trichloropropane		50.0	46.5	ug/L	0.204	7.00	30	
1,2,4-Trimethylbenzene		50.0	48.0	ug/L	2.45	3.90	30	
1,3,5-Trimethylbenzene		50.0	48.4	ug/L	2.38	3.30	30	
Vinyl Acetate		50.0	60.3	ug/L	0.616	20.7	40	
o-Xylene		50.0	45.5	ug/L	0.605	9.00	30	
m-,p-Xylene		100	97.1	ug/L	0.624	2.90	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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Version 1.5 PDF File ID: 3673722
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L14070607 Run Date: 07/17/2014 Sample ID: WG484589-02
Instrument ID: HPMS17 Run Time: 12:42 Method: 8260B
File ID: 17M006927 Analyst: ADC QC Key: STD
Workgroup (AAB#): WG484692 Cal ID: HPMS17 - 09-JUL-14
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	53.9	ug/L	0.531	7.75	20	
1,1-Dichloroethene	CCC	50.0	57.3	ug/L	0.425	14.6	20	
1,2-Dichloropropane	CCC	50.0	54.6	ug/L	0.310	9.23	20	
Ethylbenzene	CCC	50.0	54.4	ug/L	0.652	8.72	20	
Toluene	CCC	50.0	54.0	ug/L	1.79	7.98	20	
Vinyl Chloride	CCC	50.0	56.8	ug/L	0.322	13.6	20	
Bromoform	SPCC	50.0	49.3	ug/L	0.292	1.32	40	
Chlorobenzene	SPCC	50.0	53.2	ug/L	1.19	6.48	40	
Chloromethane	SPCC	50.0	54.2	ug/L	0.256	8.37	40	
1,1-Dichloroethane	SPCC	50.0	55.7	ug/L	0.516	11.5	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	46.9	ug/L	0.699	6.18	40	
Xylenes		150	166	ug/L	0.779	10.6	40	
Acetone		50.0	43.6	ug/L	0.0414	12.8	40	
Benzene		50.0	55.0	ug/L	1.18	10.0	40	
Bromobenzene		50.0	51.8	ug/L	1.03	3.61	40	
Bromochloromethane		50.0	54.7	ug/L	0.210	9.37	40	
Bromodichloromethane		50.0	53.0	ug/L	0.404	6.10	40	
Bromomethane		50.0	37.0	ug/L	0.123	26.0	40	
2-Butanone		50.0	44.7	ug/L	0.0667	10.7	40	
n-Butylbenzene		50.0	60.3	ug/L	3.10	20.7	40	
sec-Butylbenzene		50.0	56.0	ug/L	4.17	12.0	40	
tert-Butylbenzene		50.0	53.2	ug/L	0.630	6.31	40	
Carbon Disulfide		50.0	53.8	ug/L	0.851	7.68	40	
Carbon Tetrachloride		50.0	57.4	ug/L	0.454	14.8	40	
Dibromochloromethane		50.0	50.2	ug/L	0.421	0.432	40	
Chloroethane		50.0	58.3	ug/L	0.196	16.7	40	
2-Chloroethyl Vinyl Ether		50.0	49.3	ug/L	0.145	1.45	40	
2-Chlorotoluene		50.0	53.7	ug/L	2.63	7.43	40	
4-Chlorotoluene		50.0	54.4	ug/L	2.71	8.80	40	
1,2-Dibromo-3-Chloropropane		50.0	46.8	ug/L	0.117	6.33	40	
1,2-Dibromoethane		50.0	48.0	ug/L	0.308	4.00	40	
Dibromomethane		50.0	51.7	ug/L	0.167	3.40	40	
1,2-Dichlorobenzene		50.0	52.3	ug/L	1.81	4.57	40	
1,3-Dichlorobenzene		50.0	54.7	ug/L	1.95	9.43	40	
1,4-Dichlorobenzene		50.0	54.4	ug/L	1.96	8.77	40	
Dichlorodifluoromethane		50.0	62.6	ug/L	0.250	25.1	40	
1,2-Dichloroethane		50.0	51.0	ug/L	0.328	1.96	40	
cis-1,2-Dichloroethene		50.0	54.8	ug/L	0.330	9.51	40	
trans-1,2-Dichloroethene		50.0	55.7	ug/L	0.295	11.3	40	
1,3-Dichloropropane		50.0	48.5	ug/L	0.487	2.93	40	
2,2-Dichloropropane		50.0	57.5	ug/L	0.461	15.0	40	
cis-1,3-Dichloropropene		50.0	54.6	ug/L	0.482	9.25	40	

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L14070607 Run Date: 07/17/2014 Sample ID: WG484589-02
Instrument ID: HPMS17 Run Time: 12:42 Method: 8260B
File ID: 17M006927 Analyst: ADC QC Key: STD
Workgroup (AAB#): WG484692 Cal ID: HPMS17 - 09-JUL-14
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
trans-1,3-Dichloropropene		50.0	53.0	ug/L	0.407	5.93	40	
1,1-Dichloropropene		50.0	56.3	ug/L	0.401	12.6	40	
2-Hexanone		50.0	43.6	ug/L	0.145	12.8	40	
Hexachlorobutadiene		50.0	47.9	ug/L	0.718	4.18	40	
Isopropylbenzene		50.0	55.2	ug/L	2.00	10.4	40	
p-Isopropyltoluene		50.0	57.1	ug/L	3.58	14.1	40	
4-Methyl-2-Pentanone		50.0	45.6	ug/L	0.0665	8.83	40	
Methylene Chloride		50.0	53.0	ug/L	0.298	6.00	40	
Naphthalene		50.0	44.1	ug/L	2.09	11.8	40	
n-Propylbenzene		50.0	56.6	ug/L	4.51	13.2	40	
Styrene		50.0	54.6	ug/L	1.26	9.14	40	
1,1,1,2-Tetrachloroethane		50.0	52.8	ug/L	0.440	5.51	40	
Tetrachloroethene		50.0	54.2	ug/L	0.507	8.31	40	
1,2,3-Trichlorobenzene		50.0	50.9	ug/L	1.15	1.84	40	
1,2,4-Trichlorobenzene		50.0	49.5	ug/L	1.32	1.06	40	
1,1,1-Trichloroethane		50.0	54.8	ug/L	0.489	9.55	40	
1,1,2-Trichloroethane		50.0	47.9	ug/L	0.303	4.28	40	
Trichloroethene		50.0	53.1	ug/L	0.347	6.25	40	
Trichlorofluoromethane		50.0	57.1	ug/L	0.456	14.3	40	
1,2,3-Trichloropropane		50.0	45.6	ug/L	0.186	8.88	40	
1,2,4-Trimethylbenzene		50.0	55.1	ug/L	3.33	10.2	40	
1,3,5-Trimethylbenzene		50.0	55.1	ug/L	3.37	10.3	40	
Vinyl Acetate		50.0	84.1	ug/L	0.0355	68.2	40	*
o-Xylene		50.0	53.3	ug/L	0.763	6.69	40	
m-,p-Xylene		100	112	ug/L	0.796	12.5	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L14070607 Run Date: 07/17/2014 Sample ID: WG484735-02
Instrument ID: HPMS11 Run Time: 15:25 Method: 8260B
File ID: 11M02543 Analyst: ADC QC Key: STD
Workgroup (AAB#): WG484736 Cal ID: HPMS11 - 27-JUN-14
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	55.3	ug/L	0.622	10.6	20	
1,1-Dichloroethene	CCC	50.0	56.8	ug/L	0.520	13.6	20	
1,2-Dichloropropane	CCC	50.0	56.1	ug/L	0.339	12.1	20	
Ethylbenzene	CCC	50.0	49.7	ug/L	0.677	0.653	20	
Toluene	CCC	50.0	51.2	ug/L	1.73	2.44	20	
Vinyl Chloride	CCC	50.0	49.6	ug/L	0.422	0.825	20	
Bromoform	SPCC	50.0	51.0	ug/L	0.238	2.10	40	
Chlorobenzene	SPCC	50.0	50.0	ug/L	1.21	0.00560	40	
Chloromethane	SPCC	50.0	56.4	ug/L	0.533	12.8	40	
1,1-Dichloroethane	SPCC	50.0	56.5	ug/L	0.620	13.0	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	44.5	ug/L	0.598	11.0	40	
Xylenes		150	155	ug/L	0.792	3.15	40	
Acetone		50.0	52.8	ug/L	0.0533	5.60	40	
Benzene		50.0	55.5	ug/L	1.35	10.9	40	
Bromobenzene		50.0	45.9	ug/L	0.923	8.26	40	
Bromochloromethane		50.0	54.7	ug/L	0.229	9.32	40	
Bromodichloromethane		50.0	55.2	ug/L	0.464	10.3	40	
Bromomethane		50.0	37.8	ug/L	0.181	24.5	40	
2-Butanone		50.0	54.6	ug/L	0.0791	9.21	40	
n-Butylbenzene		50.0	55.2	ug/L	2.75	10.3	40	
sec-Butylbenzene		50.0	52.1	ug/L	3.73	4.20	40	
tert-Butylbenzene		50.0	48.8	ug/L	0.654	2.41	40	
Carbon Disulfide		50.0	51.6	ug/L	0.990	3.18	40	
Carbon Tetrachloride		50.0	58.0	ug/L	0.544	16.1	40	
Dibromochloromethane		50.0	50.5	ug/L	0.407	1.00	40	
Chloroethane		50.0	55.8	ug/L	0.238	11.5	40	
2-Chloroethyl Vinyl Ether		50.0	53.2	ug/L	0.147	6.47	40	
2-Chlorotoluene		50.0	47.5	ug/L	2.53	5.01	40	
4-Chlorotoluene		50.0	49.1	ug/L	2.63	1.87	40	
1,2-Dibromo-3-Chloropropane		50.0	48.6	ug/L	0.0951	2.70	40	
1,2-Dibromoethane		50.0	47.1	ug/L	0.298	5.90	40	
Dibromomethane		50.0	53.0	ug/L	0.183	6.03	40	
1,2-Dichlorobenzene		50.0	48.1	ug/L	1.61	3.77	40	
1,3-Dichlorobenzene		50.0	48.2	ug/L	1.76	3.63	40	
1,4-Dichlorobenzene		50.0	47.9	ug/L	1.75	4.14	40	
Dichlorodifluoromethane		50.0	54.2	ug/L	0.294	8.49	40	
1,2-Dichloroethane		50.0	51.6	ug/L	0.408	3.26	40	
cis-1,2-Dichloroethene		50.0	54.2	ug/L	0.394	8.35	40	
trans-1,2-Dichloroethene		50.0	54.0	ug/L	0.361	7.93	40	
1,3-Dichloropropane		50.0	46.5	ug/L	0.511	6.98	40	
2,2-Dichloropropane		50.0	53.1	ug/L	0.523	6.26	40	
cis-1,3-Dichloropropene		50.0	57.2	ug/L	0.540	14.3	40	

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L14070607 Run Date: 07/17/2014 Sample ID: WG484735-02
Instrument ID: HPMS11 Run Time: 15:25 Method: 8260B
File ID: 11M02543 Analyst: ADC QC Key: STD
Workgroup (AAB#): WG484736 Cal ID: HPMS11 - 27-JUN-14
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
trans-1,3-Dichloropropene		50.0	51.6	ug/L	0.560	3.21	40	
1,1-Dichloropropene		50.0	55.6	ug/L	0.485	11.2	40	
2-Hexanone		50.0	54.6	ug/L	0.144	9.21	40	
Hexachlorobutadiene		50.0	51.1	ug/L	0.458	2.11	40	
Isopropylbenzene		50.0	53.1	ug/L	1.91	6.14	40	
p-Isopropyltoluene		50.0	53.6	ug/L	3.23	7.23	40	
4-Methyl-2-Pentanone		50.0	56.7	ug/L	0.0722	13.4	40	
Methylene Chloride		50.0	54.6	ug/L	0.370	9.22	40	
Naphthalene		50.0	52.6	ug/L	1.91	5.17	40	
n-Propylbenzene		50.0	49.7	ug/L	4.19	0.500	40	
Styrene		50.0	54.5	ug/L	1.28	9.00	40	
1,1,1,2-Tetrachloroethane		50.0	50.8	ug/L	0.460	1.52	40	
Tetrachloroethene		50.0	48.6	ug/L	0.370	2.77	40	
1,2,3-Trichlorobenzene		50.0	49.1	ug/L	0.965	1.83	40	
1,2,4-Trichlorobenzene		50.0	49.0	ug/L	1.09	1.95	40	
1,1,1-Trichloroethane		50.0	55.4	ug/L	0.577	10.8	40	
1,1,2-Trichloroethane		50.0	46.9	ug/L	0.300	6.12	40	
Trichloroethene		50.0	54.4	ug/L	0.408	8.77	40	
Trichlorofluoromethane		50.0	55.4	ug/L	0.557	10.8	40	
1,2,3-Trichloropropane		50.0	44.9	ug/L	0.183	10.2	40	
1,2,4-Trimethylbenzene		50.0	52.1	ug/L	3.11	4.25	40	
1,3,5-Trimethylbenzene		50.0	51.4	ug/L	3.05	2.75	40	
Vinyl Acetate		50.0	59.3	ug/L	0.292	18.6	40	
o-Xylene		50.0	50.1	ug/L	0.784	0.142	40	
m-,p-Xylene		100	105	ug/L	0.801	4.66	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L14070607 Run Date: 07/18/2014 Sample ID: WG484905-02
Instrument ID: HPMS9 Run Time: 16:39 Method: 8260B
File ID: 9M964782 Analyst: FJB QC Key: STD
Workgroup (AAB#): WG484906 Cal ID: HPMS9 - 26-JUN-14
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	45.2	ug/L	0.443	9.65	20	
1,1-Dichloroethene	CCC	50.0	47.8	ug/L	0.507	4.50	20	
1,2-Dichloropropane	CCC	50.0	45.7	ug/L	0.348	8.60	20	
Ethylbenzene	CCC	50.0	49.2	ug/L	0.537	1.65	20	
Toluene	CCC	50.0	49.4	ug/L	1.46	1.29	20	
Vinyl Chloride	CCC	50.0	50.9	ug/L	0.378	1.89	20	
Bromoform	SPCC	50.0	44.6	ug/L	0.253	10.9	40	
Chlorobenzene	SPCC	50.0	48.1	ug/L	0.953	3.80	40	
Chloromethane	SPCC	50.0	37.9	ug/L	0.426	24.1	40	
1,1-Dichloroethane	SPCC	50.0	46.6	ug/L	0.604	6.85	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	49.8	ug/L	0.634	0.429	40	
Xylenes		150	149	ug/L	0.648	0.583	40	
Acetone		50.0	38.6	ug/L	0.0813	22.8	40	
Benzene		50.0	46.2	ug/L	0.981	7.54	40	
Bromobenzene		50.0	50.6	ug/L	0.822	1.26	40	
Bromochloromethane		50.0	44.9	ug/L	0.165	10.2	40	
Bromodichloromethane		50.0	46.7	ug/L	0.351	6.69	40	
Bromomethane		50.0	45.0	ug/L	0.205	10.0	40	
2-Butanone		50.0	38.7	ug/L	0.131	22.6	40	
n-Butylbenzene		50.0	56.1	ug/L	2.68	12.1	40	
sec-Butylbenzene		50.0	55.7	ug/L	3.44	11.5	40	
tert-Butylbenzene		50.0	53.9	ug/L	0.588	7.85	40	
Carbon Disulfide		50.0	44.9	ug/L	0.673	10.1	40	
Carbon Tetrachloride		50.0	47.6	ug/L	0.353	4.71	40	
Dibromochloromethane		50.0	47.0	ug/L	0.364	6.00	40	
Chloroethane		50.0	50.3	ug/L	0.234	0.539	40	
2-Chloroethyl Vinyl Ether		50.0	46.8	ug/L	0.194	6.46	40	
2-Chlorotoluene		50.0	49.6	ug/L	2.30	0.853	40	
4-Chlorotoluene		50.0	56.9	ug/L	2.28	13.8	40	
1,2-Dibromo-3-Chloropropane		50.0	45.2	ug/L	0.146	9.55	40	
1,2-Dibromoethane		50.0	45.7	ug/L	0.296	8.69	40	
Dibromomethane		50.0	46.6	ug/L	0.163	6.84	40	
1,2-Dichlorobenzene		50.0	51.8	ug/L	1.53	3.52	40	
1,3-Dichlorobenzene		50.0	52.7	ug/L	1.58	5.34	40	
1,4-Dichlorobenzene		50.0	51.4	ug/L	1.59	2.79	40	
Dichlorodifluoromethane		50.0	52.6	ug/L	0.215	5.14	40	
1,2-Dichloroethane		50.0	44.4	ug/L	0.415	11.2	40	
cis-1,2-Dichloroethene		50.0	45.8	ug/L	0.276	8.38	40	
trans-1,2-Dichloroethene		50.0	46.4	ug/L	0.486	7.12	40	
1,3-Dichloropropane		50.0	45.4	ug/L	0.508	9.18	40	
2,2-Dichloropropane		50.0	50.9	ug/L	0.407	1.89	40	
cis-1,3-Dichloropropene		50.0	48.1	ug/L	0.425	3.88	40	

CCV - Modified 03/05/2008
PDF File ID: 3673723
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L14070607 Run Date: 07/18/2014 Sample ID: WG484905-02
Instrument ID: HPMS9 Run Time: 16:39 Method: 8260B
File ID: 9M964782 Analyst: FJB QC Key: STD
Workgroup (AAB#): WG484906 Cal ID: HPMS9 - 26-JUN-14
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
trans-1,3-Dichloropropene		50.0	47.4	ug/L	0.537	5.14	40	
1,1-Dichloropropene		50.0	48.0	ug/L	0.339	4.08	40	
2-Hexanone		50.0	39.5	ug/L	0.270	21.0	40	
Hexachlorobutadiene		50.0	55.3	ug/L	0.618	10.7	40	
Isopropylbenzene		50.0	50.3	ug/L	1.61	0.579	40	
p-Isopropyltoluene		50.0	56.6	ug/L	2.86	13.1	40	
4-Methyl-2-Pentanone		50.0	39.5	ug/L	0.123	21.0	40	
Methylene Chloride		50.0	46.7	ug/L	0.262	6.63	40	
Naphthalene		50.0	49.2	ug/L	2.37	1.69	40	
n-Propylbenzene		50.0	54.8	ug/L	3.78	9.63	40	
Styrene		50.0	51.4	ug/L	1.08	2.72	40	
1,1,1,2-Tetrachloroethane		50.0	48.4	ug/L	0.360	3.15	40	
Tetrachloroethene		50.0	50.9	ug/L	0.313	1.81	40	
1,2,3-Trichlorobenzene		50.0	49.4	ug/L	1.07	1.17	40	
1,2,4-Trichlorobenzene		50.0	51.8	ug/L	1.15	3.61	40	
1,1,1-Trichloroethane		50.0	47.7	ug/L	0.402	4.60	40	
1,1,2-Trichloroethane		50.0	45.3	ug/L	0.288	9.45	40	
Trichloroethene		50.0	43.9	ug/L	0.267	12.3	40	
Trichlorofluoromethane		50.0	48.9	ug/L	0.375	2.22	40	
1,2,3-Trichloropropane		50.0	46.8	ug/L	0.206	6.38	40	
1,2,4-Trimethylbenzene		50.0	54.1	ug/L	2.76	8.16	40	
1,3,5-Trimethylbenzene		50.0	55.2	ug/L	2.71	10.4	40	
Vinyl Acetate		50.0	54.3	ug/L	0.555	8.62	40	
o-Xylene		50.0	49.2	ug/L	0.653	1.62	40	
m-,p-Xylene		100	99.9	ug/L	0.642	0.0648	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 3673723
Report generated 07/25/2014 08:27

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L14070607
Instrument ID: HPMS17
Workgroup (AAB#): WG484692

CCV Number: WG484589-02
CAL ID: HPMS17-09-JUL-14
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG484589-02	NA	NA	94358	183114	242202
Upper Limit	NA	NA	188716	366228	484404
Lower Limit	NA	NA	47179	91557	121101
L14070607-01	1.00	01	91206	187922	249991
L14070607-02	1.00	01	89576	184153	246030
L14070607-03	1.00	01	90481	190335	254361
L14070607-04	1.00	01	90139	188134	251069
L14070607-05	1.00	01	86184	185335	248118
WG484692-01	1.00	01	82399	180716	244563
WG484692-02	1.00	01	90701	180038	241752
WG484692-03	1.00	01	100085	195074	254918

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 3676698
Report generated 07/25/2014 08:28

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L14070607
Instrument ID: HPMS11
Workgroup (AAB#): WG484736

CCV Number: WG484735-02
CAL ID: HPMS11-27-JUN-14
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG484735-02	NA	NA	405292	764976	924106
Upper Limit	NA	NA	810584	1529952	1848212
Lower Limit	NA	NA	202646	382488	462053
L14070607-06	1.00	01	316527	659958	800490
L14070607-07	1.00	01	334961	672110	823174
L14070607-08	1.00	01	319147	648967	783627
L14070607-09	1.00	01	325866	659344	805209
L14070607-10	1.00	01	316007	646532	787479
L14070607-15	1.00	01	322262	647814	791166
WG484736-01	1.00	01	335877	700535	867019
WG484736-02	1.00	01	399671	762758	917783

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 3676698
Report generated 07/25/2014 08:28

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L14070607
Instrument ID: HPMS9
Workgroup (AAB#): WG484906

CCV Number: WG484905-02
CAL ID: HPMS9-26-JUN-14
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG484905-02	NA	NA	324704	630198	892789
Upper Limit	NA	NA	649408	1260396	1785578
Lower Limit	NA	NA	162352	315099	446395
L14070607-11	1.00	01	274305	567472	820601
L14070607-12	1.00	01	268241	552290	801728
L14070607-13	1.00	01	278154	564851	815951
L14070607-14	1.00	01	279221	568163	824861
L14070607-16	1.00	01	274271	551457	789318
WG484906-01	1.00	01	273288	552690	801201
WG484906-02	1.00	01	262007	524449	756048
WG484906-03	1.00	01	270197	532536	765502
WG484906-04	1.00	01	262034	529445	775892

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 3676698
Report generated 07/25/2014 08:28

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L14070607
Instrument ID: HPMS17
Workgroup (AAB#): WG484692

CCV Number: WG484589-02
CAL ID: HPMS17-09-JUL-14
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG484589-02	NA	NA	9.171	7.808	4.889
Upper Limit	NA	NA	9.671	8.308	5.389
Lower Limit	NA	NA	8.671	7.308	4.389
L14070607-01	1.00	01	9.17	7.81	4.89
L14070607-02	1.00	01	9.17	7.81	4.89
L14070607-03	1.00	01	9.17	7.81	4.89
L14070607-04	1.00	01	9.17	7.81	4.89
L14070607-05	1.00	01	9.17	7.81	4.89
WG484692-01	1.00	01	9.17	7.81	4.89
WG484692-02	1.00	01	9.17	7.81	4.89
WG484692-03	1.00	01	9.17	7.81	4.89

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 3676700
Report generated 07/25/2014 08:28

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L14070607
Instrument ID: HPMS11
Workgroup (AAB#): WG484736

CCV Number: WG484735-02
CAL ID: HPMS11-27-JUN-14
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG484735-02	NA	NA	17.09	14.28	10.65
Upper Limit	NA	NA	17.59	14.78	11.15
Lower Limit	NA	NA	16.59	13.78	10.15
L14070607-06	1.00	01	17.09	14.28	10.65
L14070607-07	1.00	01	17.09	14.28	10.65
L14070607-08	1.00	01	17.09	14.28	10.65
L14070607-09	1.00	01	17.09	14.28	10.65
L14070607-10	1.00	01	17.09	14.28	10.65
L14070607-15	1.00	01	17.09	14.28	10.65
WG484736-01	1.00	01	17.09	14.28	10.65
WG484736-02	1.00	01	17.09	14.28	10.65

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 3676700
Report generated 07/25/2014 08:28

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L14070607
Instrument ID: HPMS9
Workgroup (AAB#): WG484906

CCV Number: WG484905-02
CAL ID: HPMS9-26-JUN-14
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG484905-02	NA	NA	17.99	14.96	11.07
Upper Limit	NA	NA	18.49	15.46	11.57
Lower Limit	NA	NA	17.49	14.46	10.57
L14070607-11	1.00	01	17.99	14.96	11.09
L14070607-12	1.00	01	17.99	14.96	11.09
L14070607-13	1.00	01	17.99	14.96	11.09
L14070607-14	1.00	01	17.99	14.96	11.09
L14070607-16	1.00	01	17.99	14.96	11.09
WG484906-01	1.00	01	17.99	14.96	11.08
WG484906-02	1.00	01	17.99	14.96	11.08
WG484906-03	1.00	01	17.99	14.96	11.08
WG484906-04	1.00	01	17.98	14.96	11.09

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 3676700
Report generated 07/25/2014 08:28

2.1.1.3 Sample Data

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006958.D
Acq On : 17 Jul 2014 22:54
Operator : ADC
Sample : L14070607-01 A 826-LOW
Misc : 1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 22 16:28:54 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

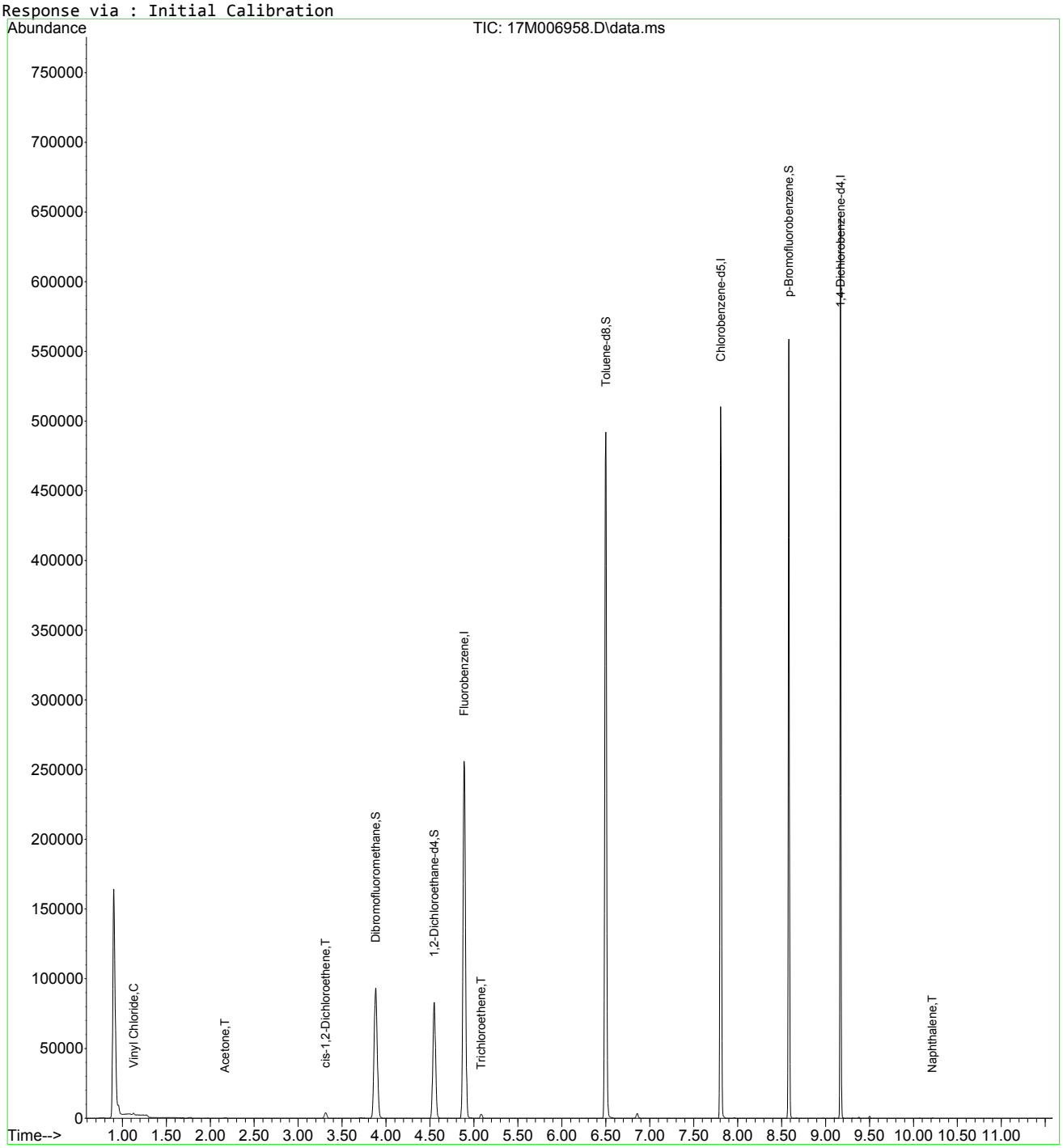
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.889	96	249991	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.808	117	187922	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.171	152	91206	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.882	111	74949	24.7440 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.976%		
32) 1,2-Dichloroethane-d4	4.548	65	68127	23.2723 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 93.089%		
44) Toluene-d8	6.499	98	281630	25.4376 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.750%		
63) p-Bromofluorobenzene	8.581	95	97947	24.6487 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.595%		
Target Compounds					Qvalue
4) Vinyl Chloride	1.128	62	861	0.3036 ug/L	93
15) Acetone	2.168	43	559	1.1759 ug/L #	43
21) cis-1,2-Dichloroethene	3.311	96	2231	0.7415 ug/L	99
34) Trichloroethene	5.083	130	1089	0.3331 ug/L	97
81) Naphthalene	10.214	128	168	0.2692 ug/L #	67

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

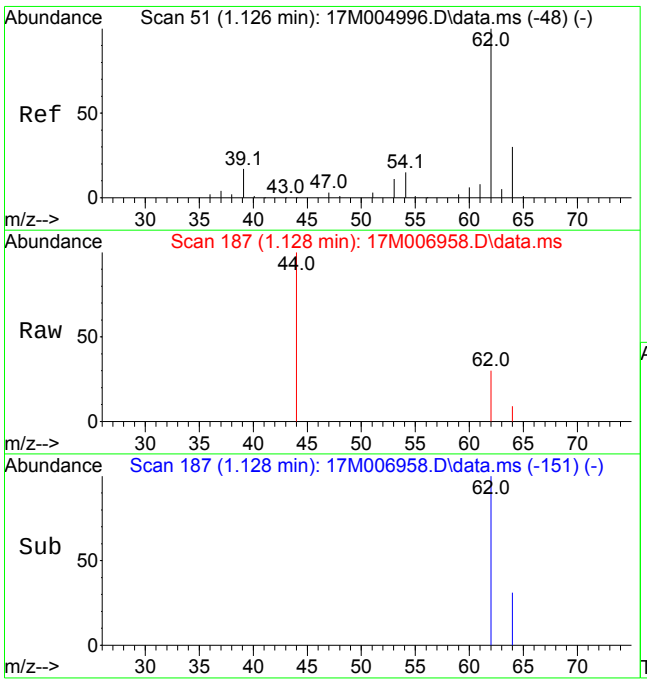
Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006958.D
Acq On : 17 Jul 2014 22:54
Operator : ADC
Sample : L14070607-01 A 826-LOW
Misc : 1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 22 16:28:54 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



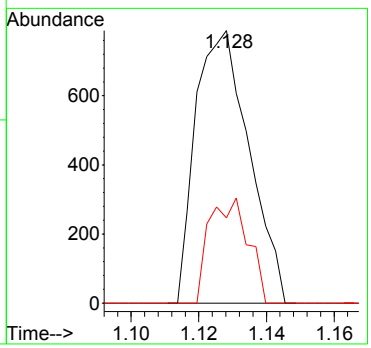
8260-VMS.M Tue Jul 22 16:28:55 2014 Page: 2

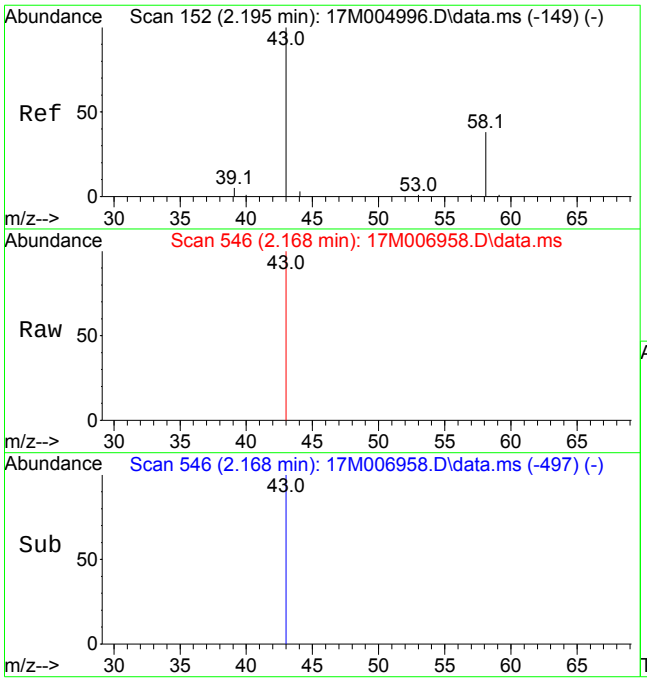


#4
Vinyl Chloride
Concen: 0.3036 ug/L
RT: 1.128 min Scan# 187
Delta R.T. 0.003 min
Lab File: 17M006958.D
Acq: 17 Jul 2014 22:54

Tgt Ion: 62 Resp: 861

Ion	Ratio	Lower	Upper
62	100		
64	28.1	19.4	45.2

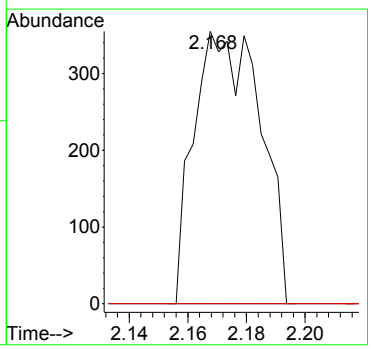


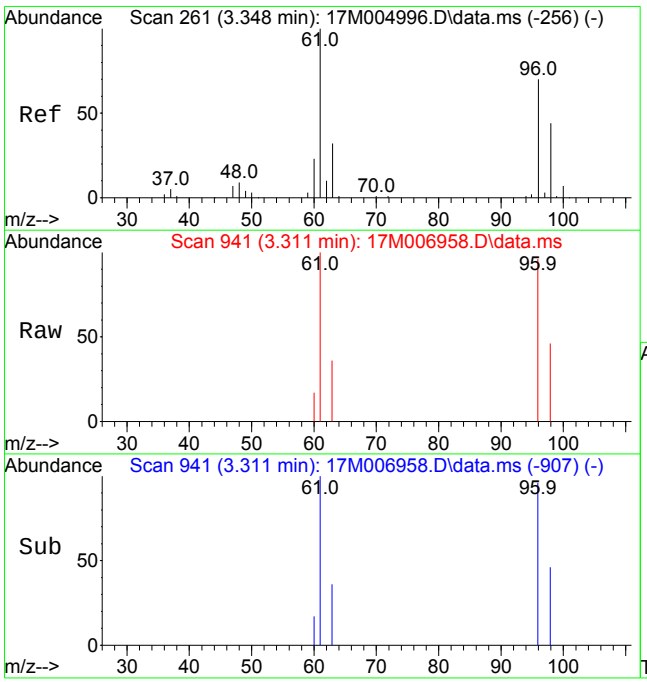


#15
Acetone
Concen: 1.1759 ug/L
RT: 2.168 min Scan# 546
Delta R.T. -0.008 min
Lab File: 17M006958.D
Acq: 17 Jul 2014 22:54

Tgt Ion: 43 Resp: 559

Ion	Ratio	Lower	Upper
43	100		
58	0.0	18.9	44.1#

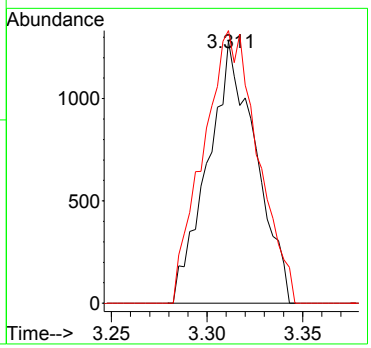


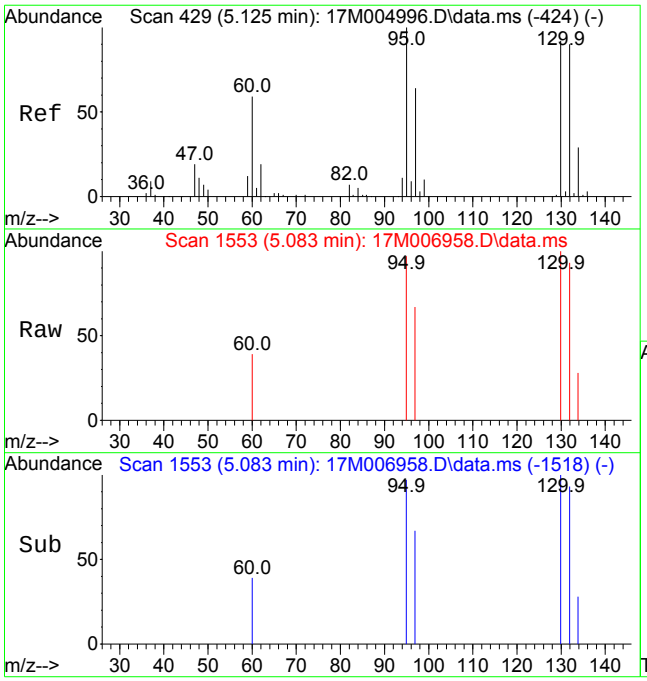


#21
cis-1,2-Dichloroethene
Concen: 0.7415 ug/L
RT: 3.311 min Scan# 941
Delta R.T. -0.003 min
Lab File: 17M006958.D
Acq: 17 Jul 2014 22:54

Tgt Ion: 96 Resp: 2231

Ion	Ratio	Lower	Upper
96	100		
61	119.2	96.6	145.0

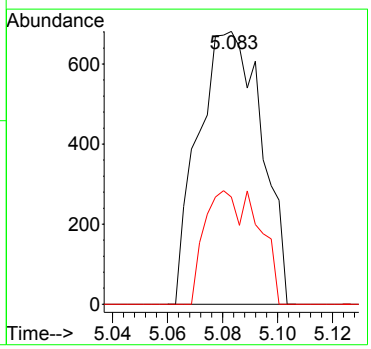


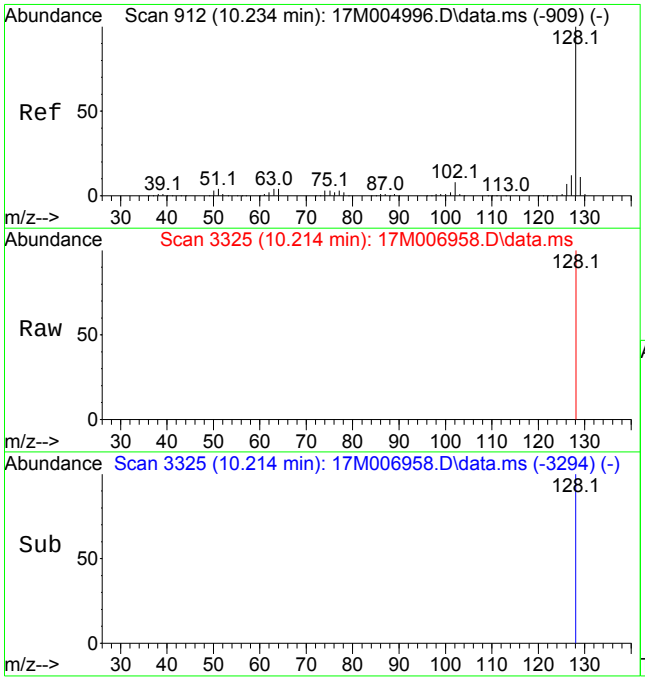


#34
Trichloroethene
Concen: 0.3331 ug/L
RT: 5.083 min Scan# 1553
Delta R.T. 0.000 min
Lab File: 17M006958.D
Acq: 17 Jul 2014 22:54

Tgt Ion:130 Resp: 1089

Ion	Ratio	Lower	Upper
130	100		
60	35.4	22.2	51.8

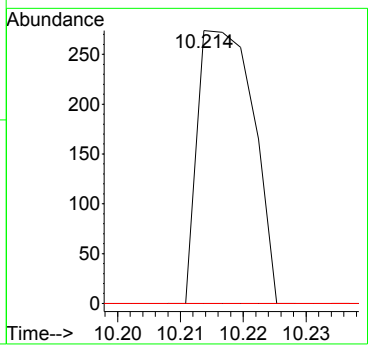




#81
Naphthalene
Concen: 0.2692 ug/L
RT: 10.214 min Scan# 3325
Delta R.T. -0.011 min
Lab File: 17M006958.D
Acq: 17 Jul 2014 22:54

Tgt Ion:128 Resp: 168

Ion	Ratio	Lower	Upper
128	100		
127	0.0	7.8	18.2#



Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006959.D
Acq On : 17 Jul 2014 23:14
Operator : ADC
Sample : L14070607-02 A 826-LOW
Misc : 1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 22 16:28:57 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

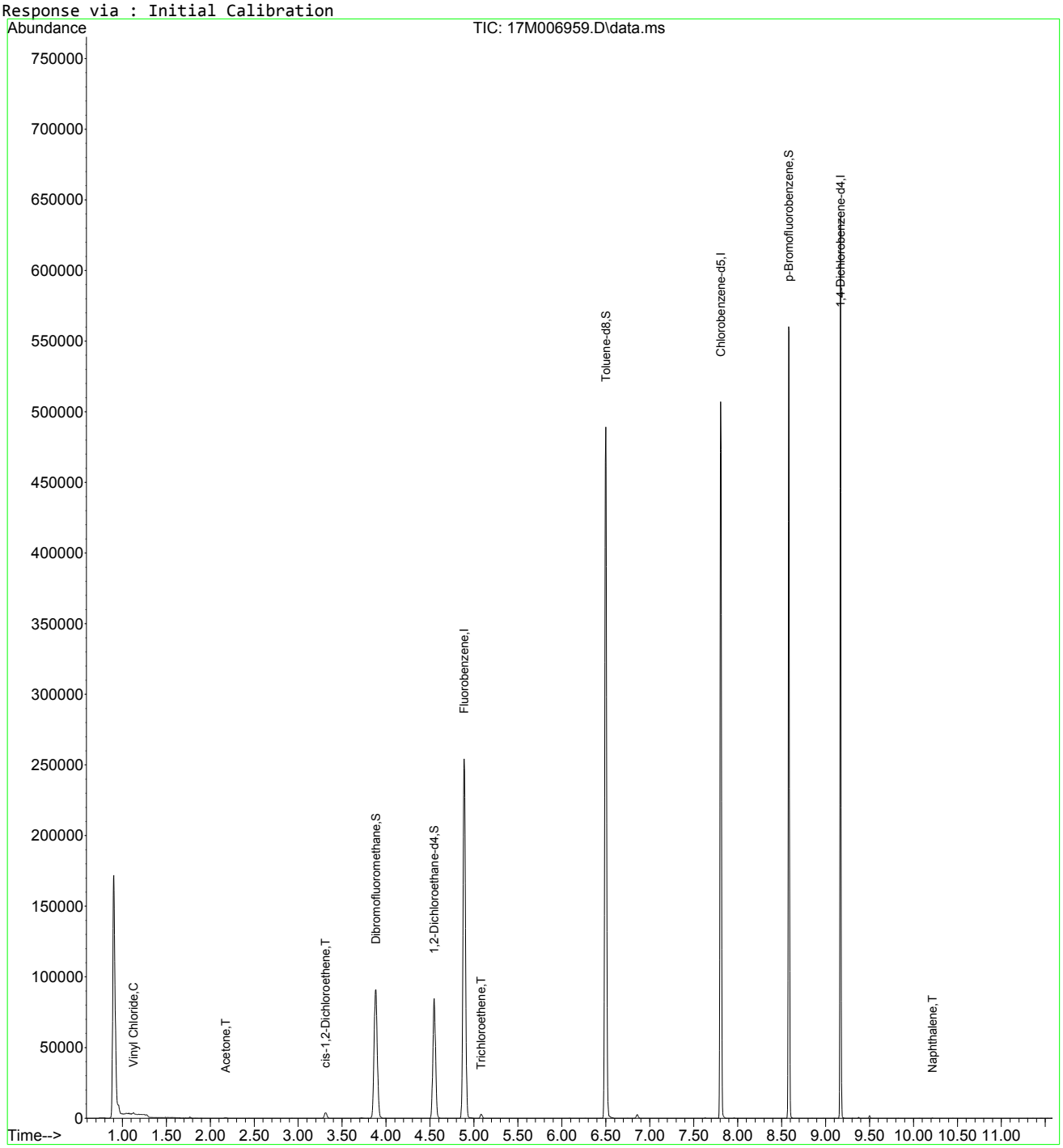
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.889	96	246030	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.808	117	184153	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.171	152	89576	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.884	111	74467	24.9807 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.923%		
32) 1,2-Dichloroethane-d4	4.547	65	68439	23.7552 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 95.021%		
44) Toluene-d8	6.499	98	278599	25.6789 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.716%		
63) p-Bromofluorobenzene	8.581	95	98058	25.1257 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.503%		
Target Compounds					Qvalue
4) Vinyl Chloride	1.125	62	895	0.3206 ug/L	88
15) Acetone	2.173	43	595	1.2718 ug/L #	43
21) cis-1,2-Dichloroethene	3.311	96	2337	0.7892 ug/L	96
34) Trichloroethene	5.083	130	1107	0.3441 ug/L	90
81) Naphthalene	10.217	128	106	0.2623 ug/L #	67

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

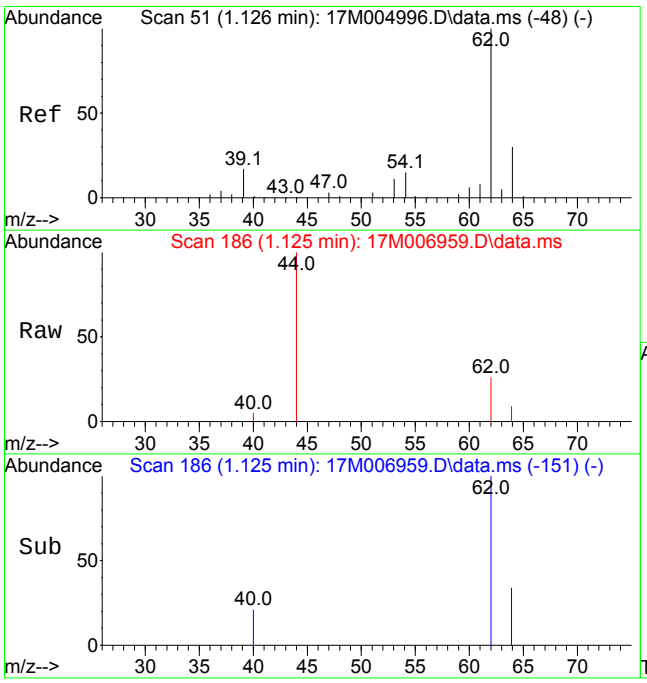
Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006959.D
Acq On : 17 Jul 2014 23:14
Operator : ADC
Sample : L14070607-02 A 826-LOW
Misc : 1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 22 16:28:57 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



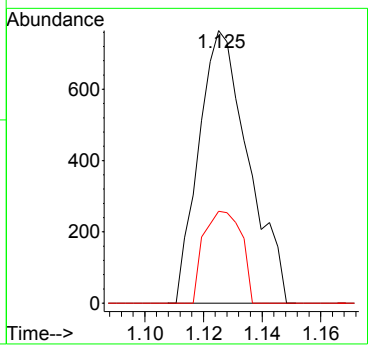
8260-VMS.M Tue Jul 22 16:28:58 2014 Page: 2

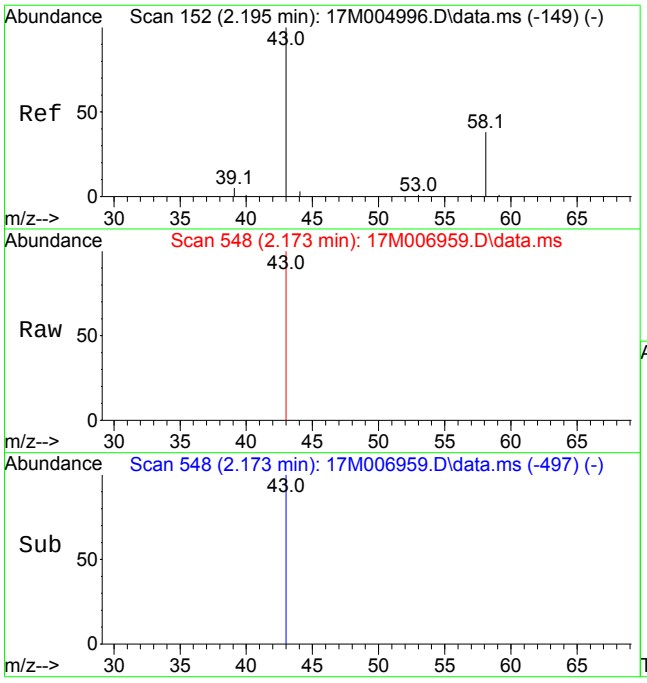


#4
Vinyl Chloride
Concen: 0.3206 ug/L
RT: 1.125 min Scan# 186
Delta R.T. 0.000 min
Lab File: 17M006959.D
Acq: 17 Jul 2014 23:14

Tgt Ion: 62 Resp: 895

Ion	Ratio	Lower	Upper
62	100		
64	25.8	19.4	45.2

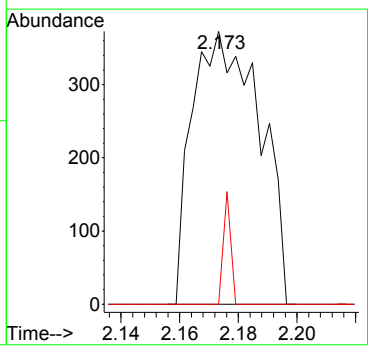


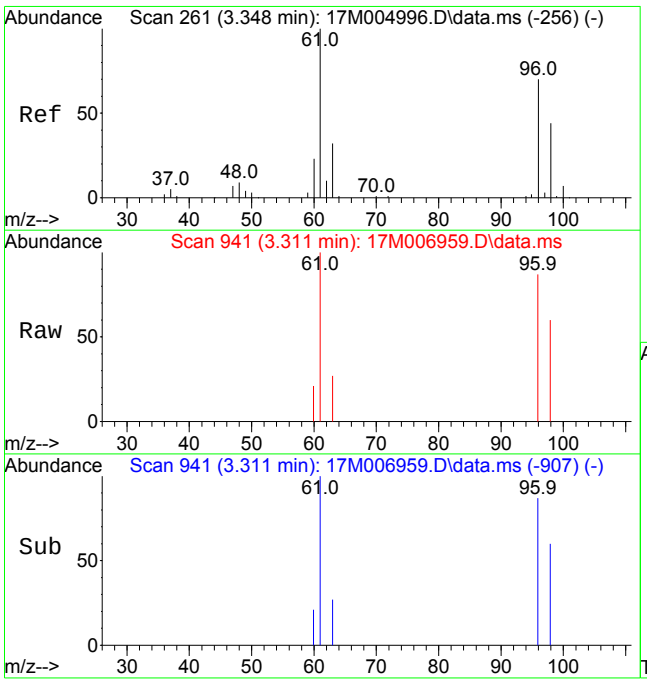


#15
Acetone
Concen: 1.2718 ug/L
RT: 2.173 min Scan# 548
Delta R.T. -0.003 min
Lab File: 17M006959.D
Acq: 17 Jul 2014 23:14

Tgt Ion: 43 Resp: 595

Ion	Ratio	Lower	Upper
43	100		
58	0.0	18.9	44.1#

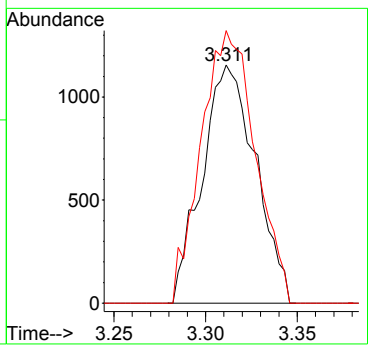


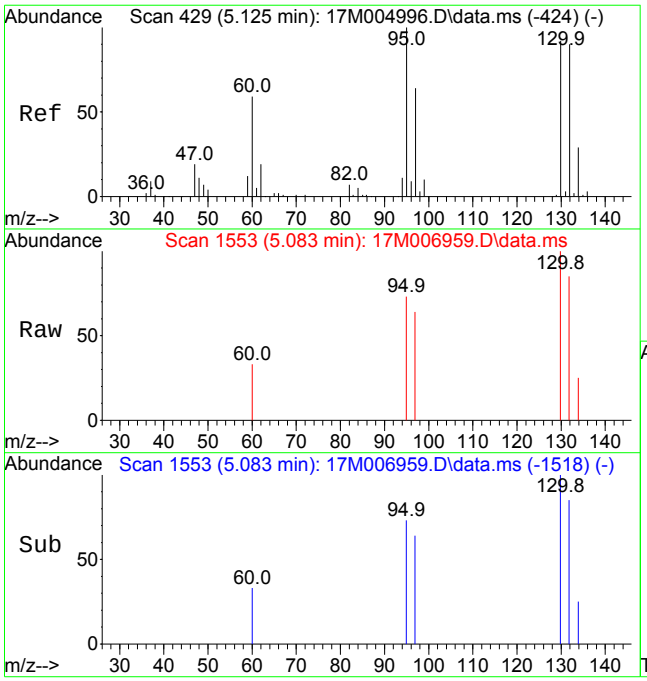


#21
cis-1,2-Dichloroethene
Concen: 0.7892 ug/L
RT: 3.311 min Scan# 941
Delta R.T. -0.003 min
Lab File: 17M006959.D
Acq: 17 Jul 2014 23:14

Tgt Ion: 96 Resp: 2337

Ion	Ratio	Lower	Upper
96	100		
61	116.3	96.6	145.0

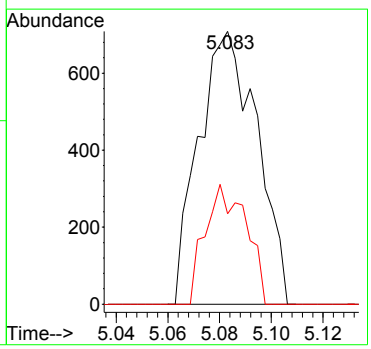


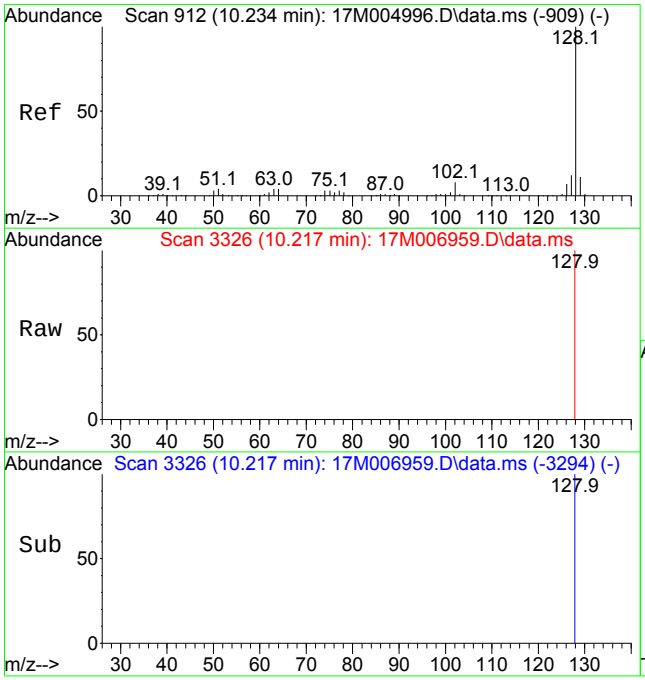


#34
Trichloroethene
Concen: 0.3441 ug/L
RT: 5.083 min Scan# 1553
Delta R.T. 0.000 min
Lab File: 17M006959.D
Acq: 17 Jul 2014 23:14

Tgt Ion:130 Resp: 1107

Ion	Ratio	Lower	Upper
130	100		
60	30.8	22.2	51.8

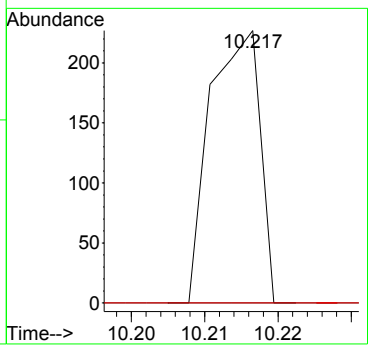




#81
Naphthalene
Concen: 0.2623 ug/L
RT: 10.217 min Scan# 3326
Delta R.T. -0.008 min
Lab File: 17M006959.D
Acq: 17 Jul 2014 23:14

Tgt Ion:128 Resp: 106

Ion	Ratio	Lower	Upper
128	100		
127	0.0	7.8	18.2#



Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006960.D
Acq On : 17 Jul 2014 23:34
Operator : ADC
Sample : L14070607-03 A 826-LOW
Misc : 1,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jul 22 16:29:00 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

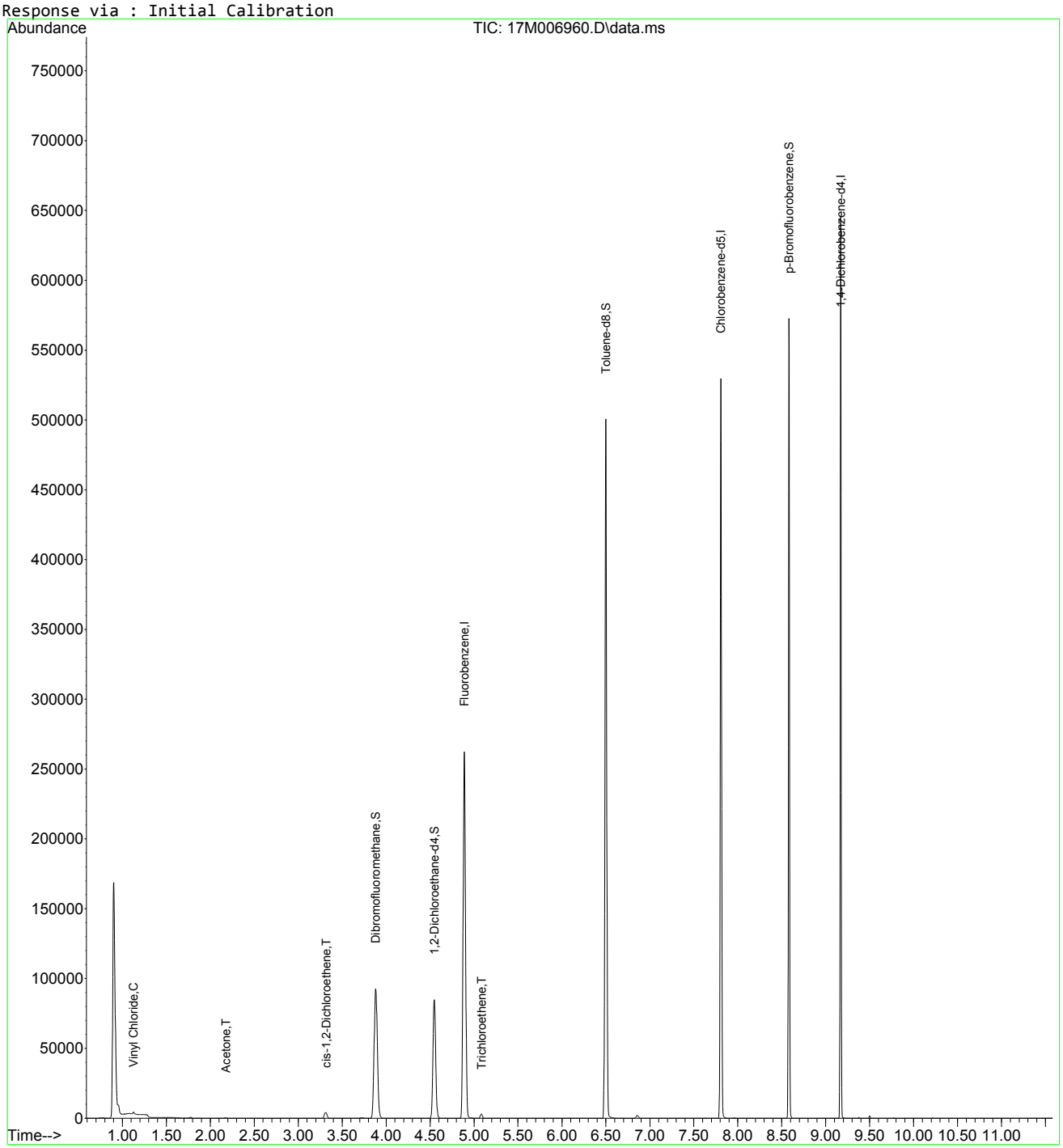
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.889	96	254361	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.808	117	190335	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.172	152	90481	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.882	111	75233	24.4110 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 97.644%		
32) 1,2-Dichloroethane-d4	4.548	65	68708	23.0675 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 92.270%		
44) Toluene-d8	6.499	98	282837	25.2228 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 100.891%		
63) p-Bromofluorobenzene	8.581	95	99496	25.2391 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.956%		
Target Compounds					Qvalue
4) Vinyl Chloride	1.125	62	968	0.3354 ug/L	85
15) Acetone	2.176	43	563	1.1640 ug/L #	43
21) cis-1,2-Dichloroethene	3.317	96	2536	0.8284 ug/L	100
34) Trichloroethene	5.086	130	1136	0.3415 ug/L	86

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

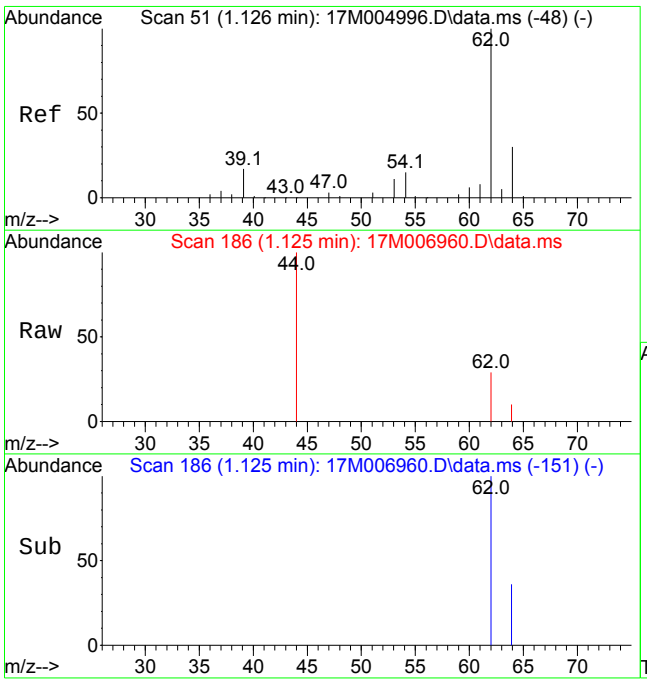
Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006960.D
Acq On : 17 Jul 2014 23:34
Operator : ADC
Sample : L14070607-03 A 826-LOW
Misc : 1,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jul 22 16:29:00 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



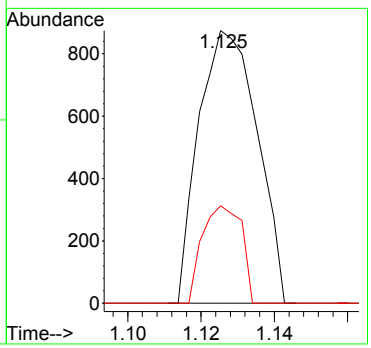
8260-VMS.M Tue Jul 22 16:29:01 2014 Page: 2

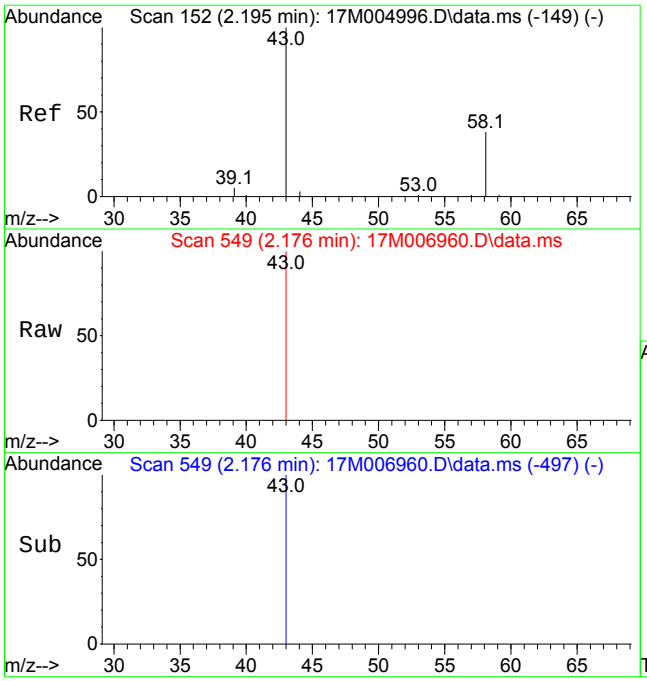


#4
Vinyl Chloride
Concen: 0.3354 ug/L
RT: 1.125 min Scan# 186
Delta R.T. 0.000 min
Lab File: 17M006960.D
Acq: 17 Jul 2014 23:34

Tgt Ion: 62 Resp: 968

Ion	Ratio	Lower	Upper
62	100		
64	24.1	19.4	45.2

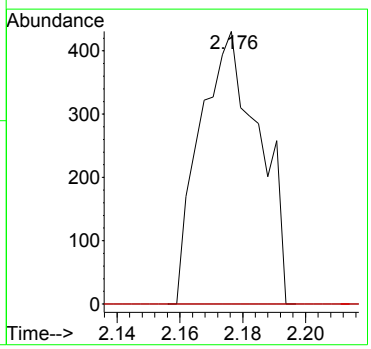


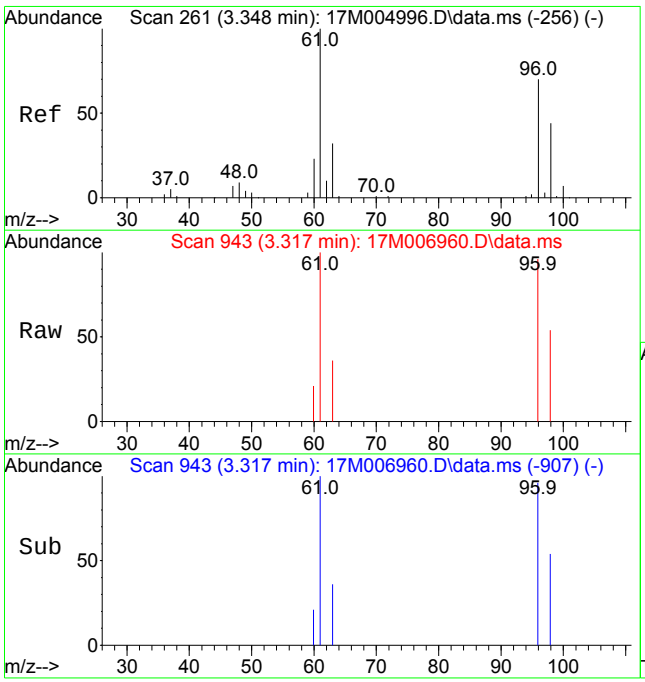


#15
Acetone
Concen: 1.1640 ug/L
RT: 2.176 min Scan# 549
Delta R.T. 0.000 min
Lab File: 17M006960.D
Acq: 17 Jul 2014 23:34

Tgt Ion: 43 Resp: 563

Ion	Ratio	Lower	Upper
43	100		
58	0.0	18.9	44.1#

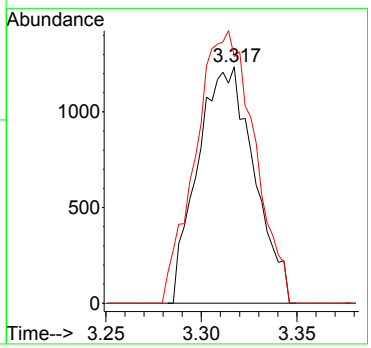


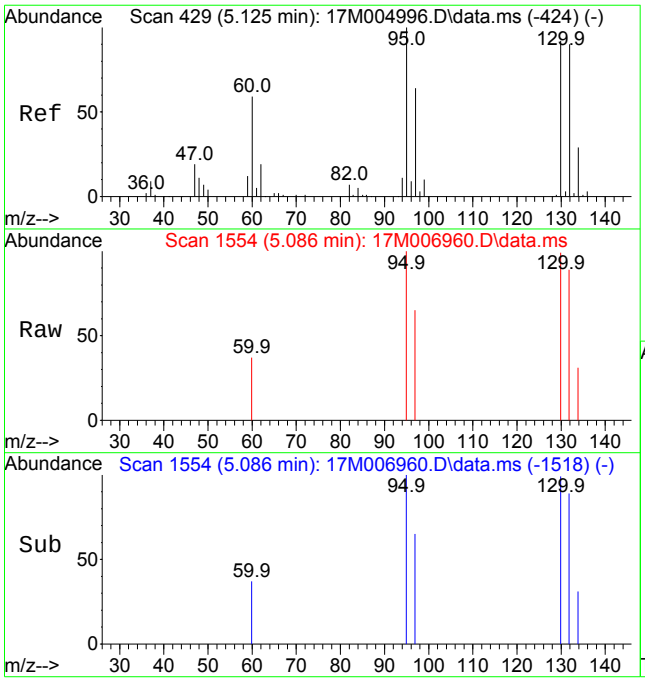


#21
cis-1,2-Dichloroethene
Concen: 0.8284 ug/L
RT: 3.317 min Scan# 943
Delta R.T. 0.003 min
Lab File: 17M006960.D
Acq: 17 Jul 2014 23:34

Tgt Ion: 96 Resp: 2536

Ion	Ratio	Lower	Upper
96	100		
61	120.3	96.6	145.0

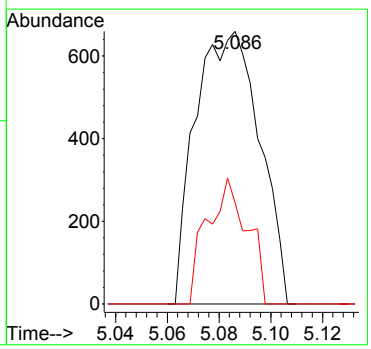




#34
Trichloroethene
Concen: 0.3415 ug/L
RT: 5.086 min Scan# 1554
Delta R.T. 0.003 min
Lab File: 17M006960.D
Acq: 17 Jul 2014 23:34

Tgt Ion:130 Resp: 1136

Ion	Ratio	Lower	Upper
130	100		
60	28.8	22.2	51.8



Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006961.D
Acq On : 17 Jul 2014 23:54
Operator : ADC
Sample : L14070607-04 A 826-LOW
Misc : 1,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 22 16:29:03 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

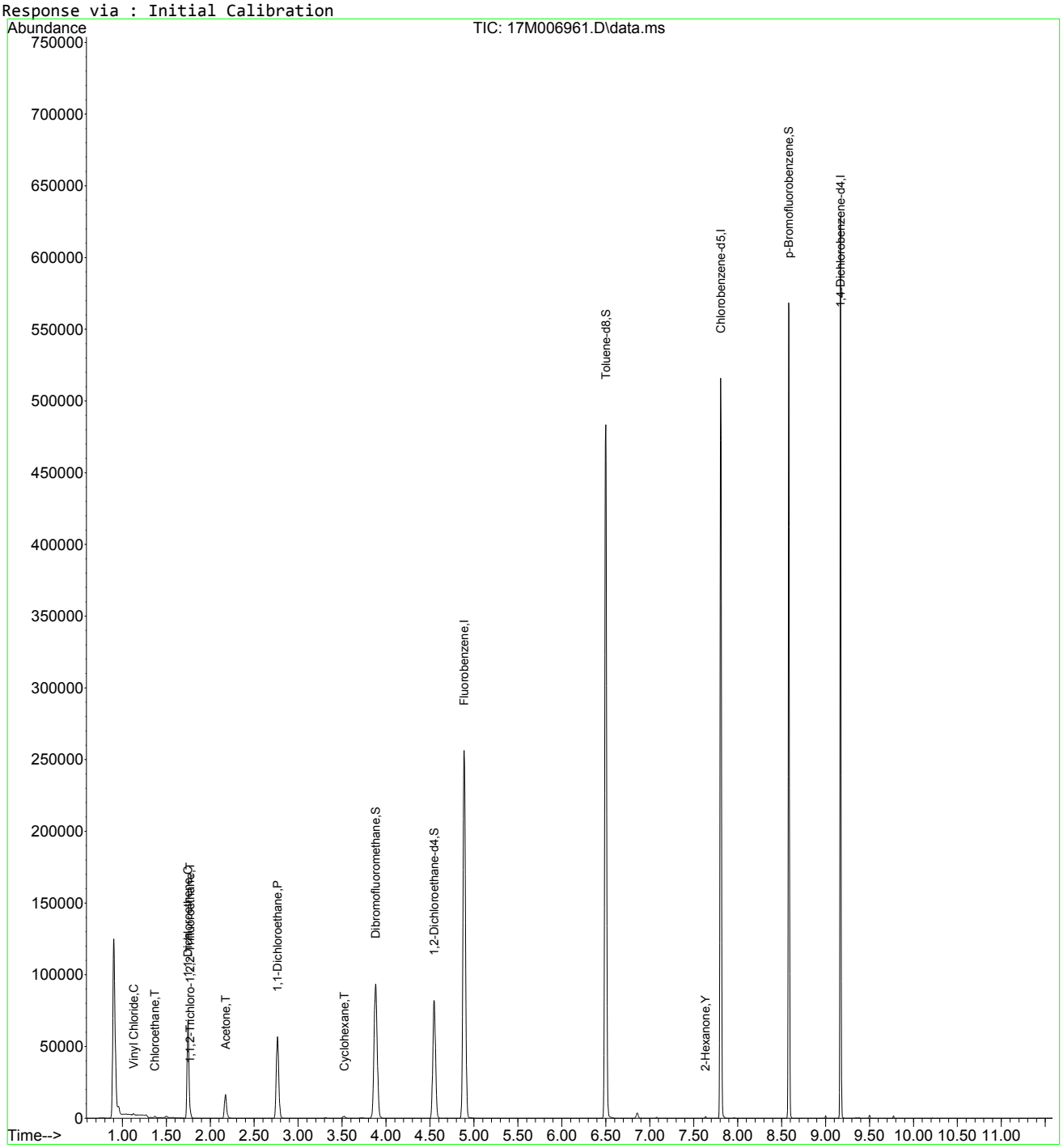
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.889	96	251069	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.808	117	188134	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.171	152	90139	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.882	111	75325	24.7613 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.045%		
32) 1,2-Dichloroethane-d4	4.548	65	67482	22.9530 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 91.812%		
44) Toluene-d8	6.499	98	279948	25.2572 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.029%		
63) p-Bromofluorobenzene	8.581	95	97421	24.8065 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.226%		
Target Compounds					Qvalue
4) Vinyl Chloride	1.128	62	737	0.2587 ug/L	82
7) Chloroethane	1.369	64	662	0.3921 ug/L #	49
10) 1,1-Dichloroethene	1.745	61	31846	8.5524 ug/L	98
12) 1,1,2-Trichloro-1,2,2-...	1.771	101	873	0.3377 ug/L	93
15) Acetone	2.173	43	18629	39.0209 ug/L	98
18) 1,1-Dichloroethane	2.764	63	56904	12.2373 ug/L	99
23) Cyclohexane	3.526	56	1013	0.2400 ug/L	90
51) 2-Hexanone	7.634	43	169	0.1350 ug/L #	23

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

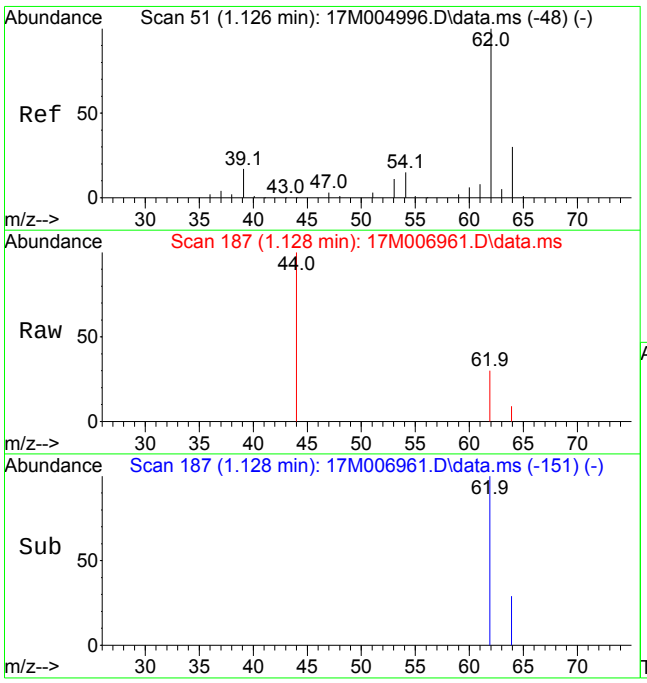
Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006961.D
Acq On : 17 Jul 2014 23:54
Operator : ADC
Sample : L14070607-04 A 826-LOW
Misc : 1,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 22 16:29:03 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



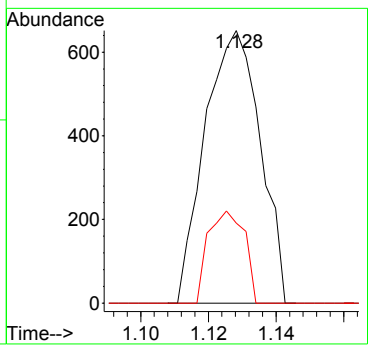
8260-VMS.M Tue Jul 22 16:29:04 2014 Page: 2

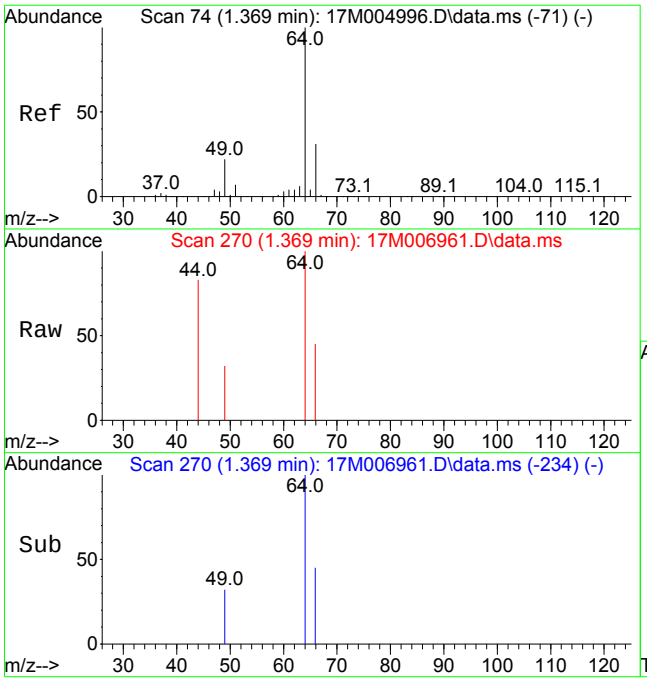


#4
Vinyl Chloride
Concen: 0.2587 ug/L
RT: 1.128 min Scan# 187
Delta R.T. 0.003 min
Lab File: 17M006961.D
Acq: 17 Jul 2014 23:54

Tgt Ion: 62 Resp: 737

Ion	Ratio	Lower	Upper
62	100		
64	22.1	19.4	45.2

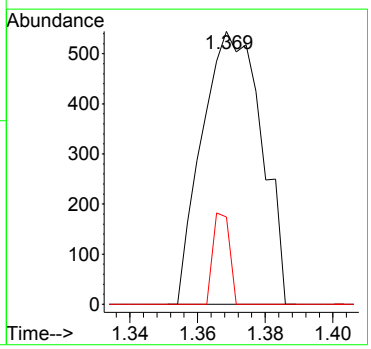


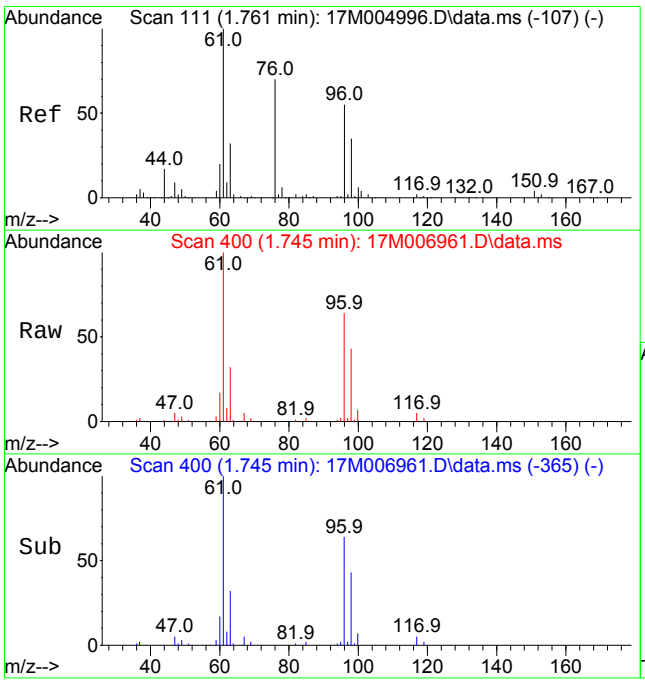


#7
Chloroethane
Concen: 0.3921 ug/L
RT: 1.369 min Scan# 270
Delta R.T. 0.006 min
Lab File: 17M006961.D
Acq: 17 Jul 2014 23:54

Tgt Ion: 64 Resp: 662

Ion	Ratio	Lower	Upper
64	100		
49	0.0	15.5	36.1#

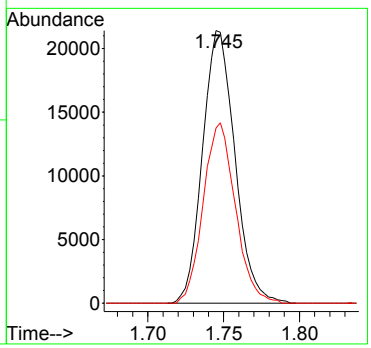


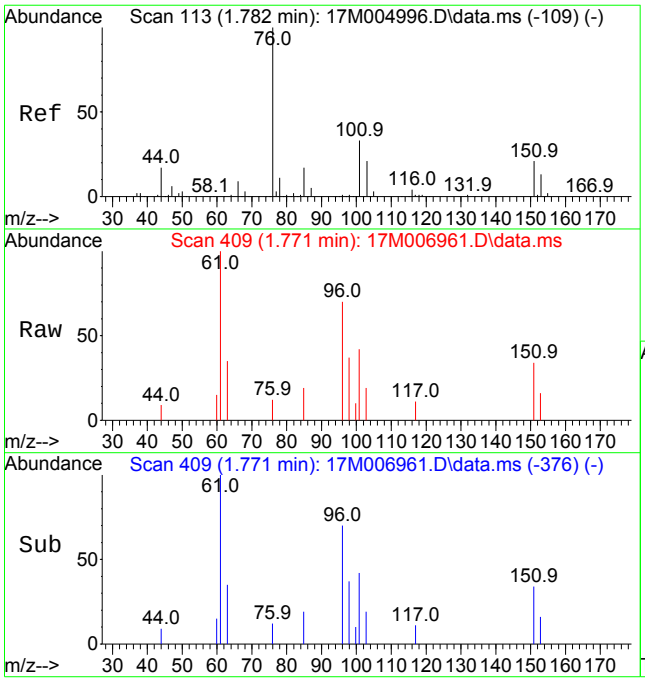


#10
1,1-Dichloroethene
Concen: 8.5524 ug/L
RT: 1.745 min Scan# 400
Delta R.T. -0.000 min
Lab File: 17M006961.D
Acq: 17 Jul 2014 23:54

Tgt Ion: 61 Resp: 31846

Ion	Ratio	Lower	Upper
61	100		
96	65.6	53.8	80.8

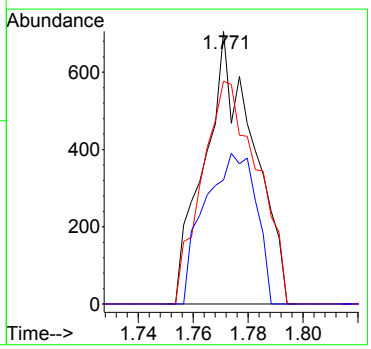


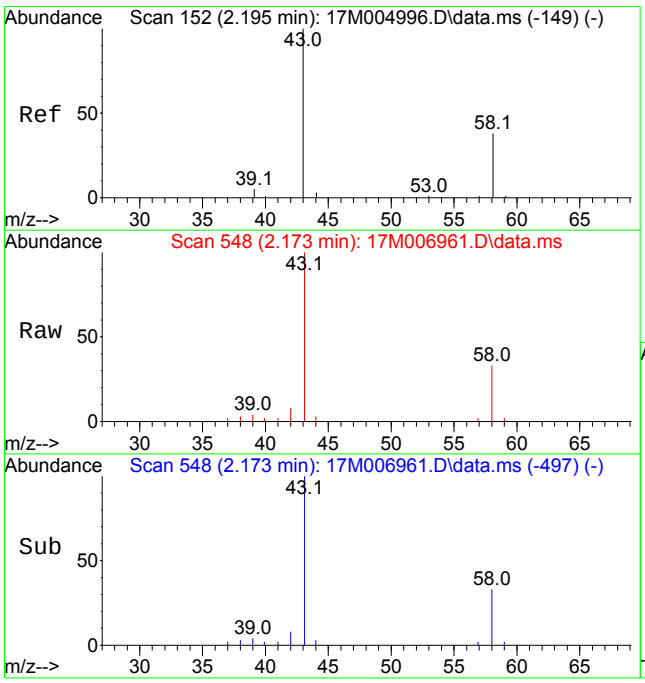


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 0.3377 ug/L
RT: 1.771 min Scan# 409
Delta R.T. -0.003 min
Lab File: 17M006961.D
Acq: 17 Jul 2014 23:54

Tgt Ion:101 Resp: 873

Ion	Ratio	Lower	Upper
101	100		
151	92.3	78.2	117.2
103	58.0	51.7	77.5

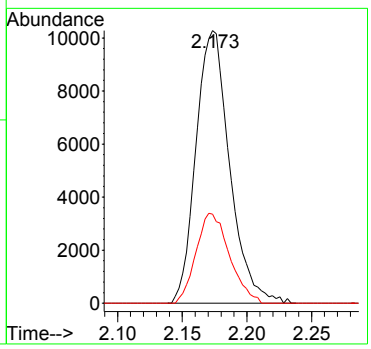


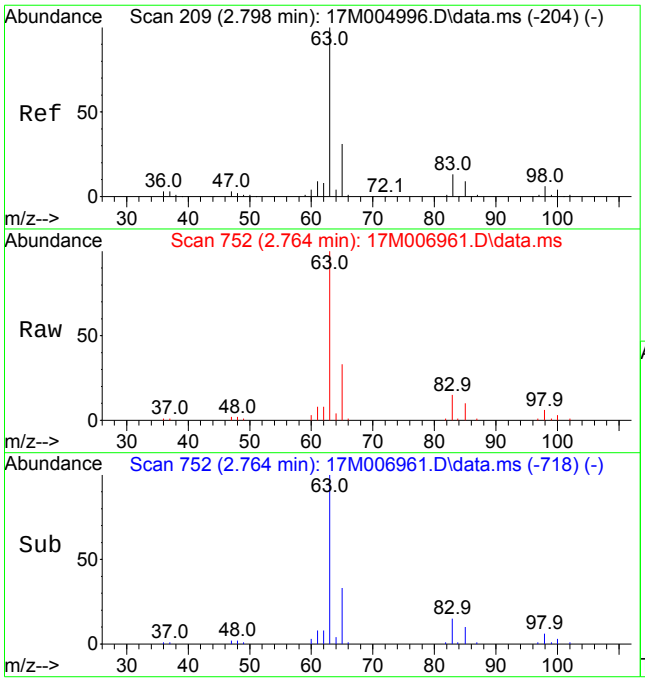


#15
Acetone
Concen: 39.0209 ug/L
RT: 2.173 min Scan# 548
Delta R.T. -0.003 min
Lab File: 17M006961.D
Acq: 17 Jul 2014 23:54

Tgt Ion: 43 Resp: 18629

Ion	Ratio	Lower	Upper
43	100		
58	32.7	18.9	44.1

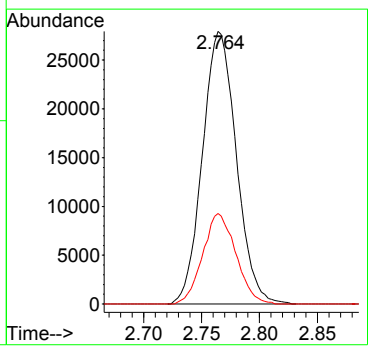


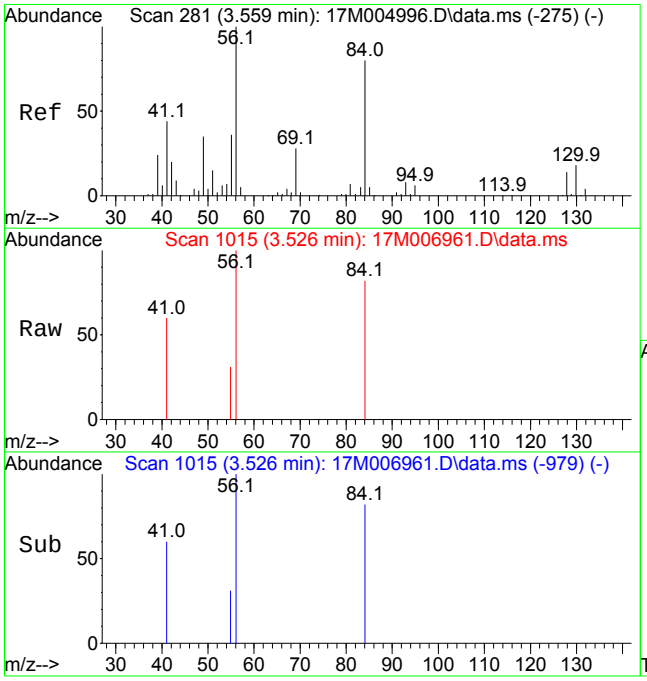


#18
1,1-Dichloroethane
Concen: 12.2373 ug/L
RT: 2.764 min Scan# 752
Delta R.T. -0.003 min
Lab File: 17M006961.D
Acq: 17 Jul 2014 23:54

Tgt Ion: 63 Resp: 56904

Ion	Ratio	Lower	Upper
63	100		
65	32.5	25.6	38.4

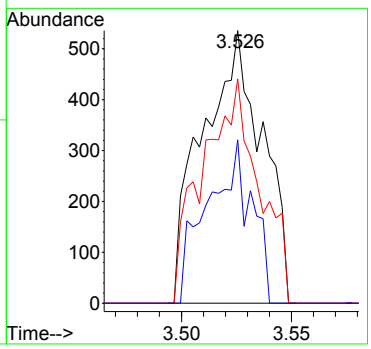


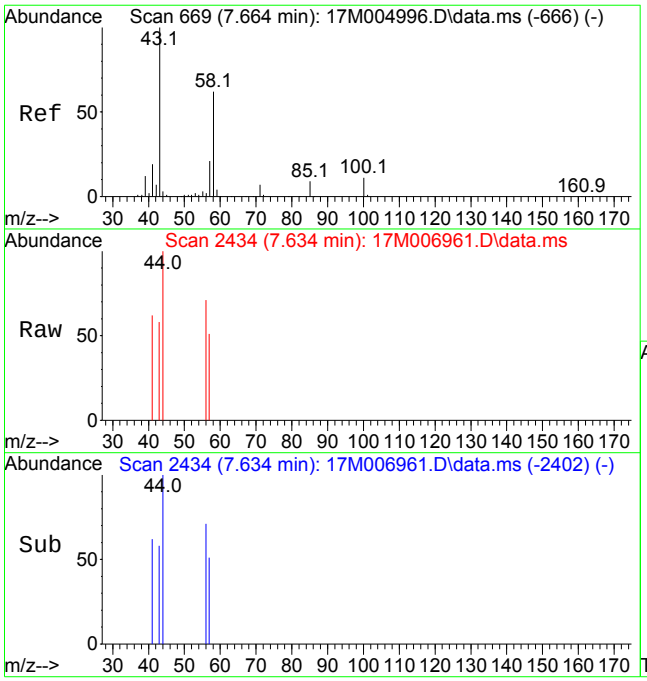


#23
Cyclohexane
Concen: 0.2400 ug/L
RT: 3.526 min Scan# 1015
Delta R.T. 0.006 min
Lab File: 17M006961.D
Acq: 17 Jul 2014 23:54

Tgt Ion: 56 Resp: 1013

Ion	Ratio	Lower	Upper
56	100		
84	77.4	70.0	105.0
41	44.1	40.2	60.4

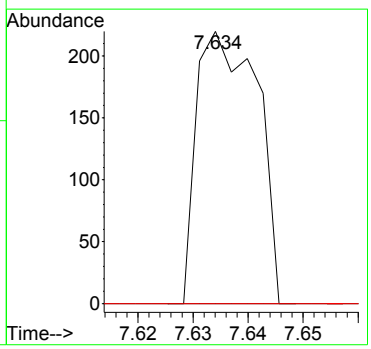




#51
2-Hexanone
Concen: 0.1350 ug/L
RT: 7.634 min Scan# 2434
Delta R.T. -0.006 min
Lab File: 17M006961.D
Acq: 17 Jul 2014 23:54

Tgt Ion: 43 Resp: 169

Ion	Ratio	Lower	Upper
43	100		
58	0.0	45.2	67.8#



Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006962.D
Acq On : 18 Jul 2014 00:14
Operator : ADC
Sample : L14070607-05 A 826-LOW
Misc : 1,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jul 22 16:29:06 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

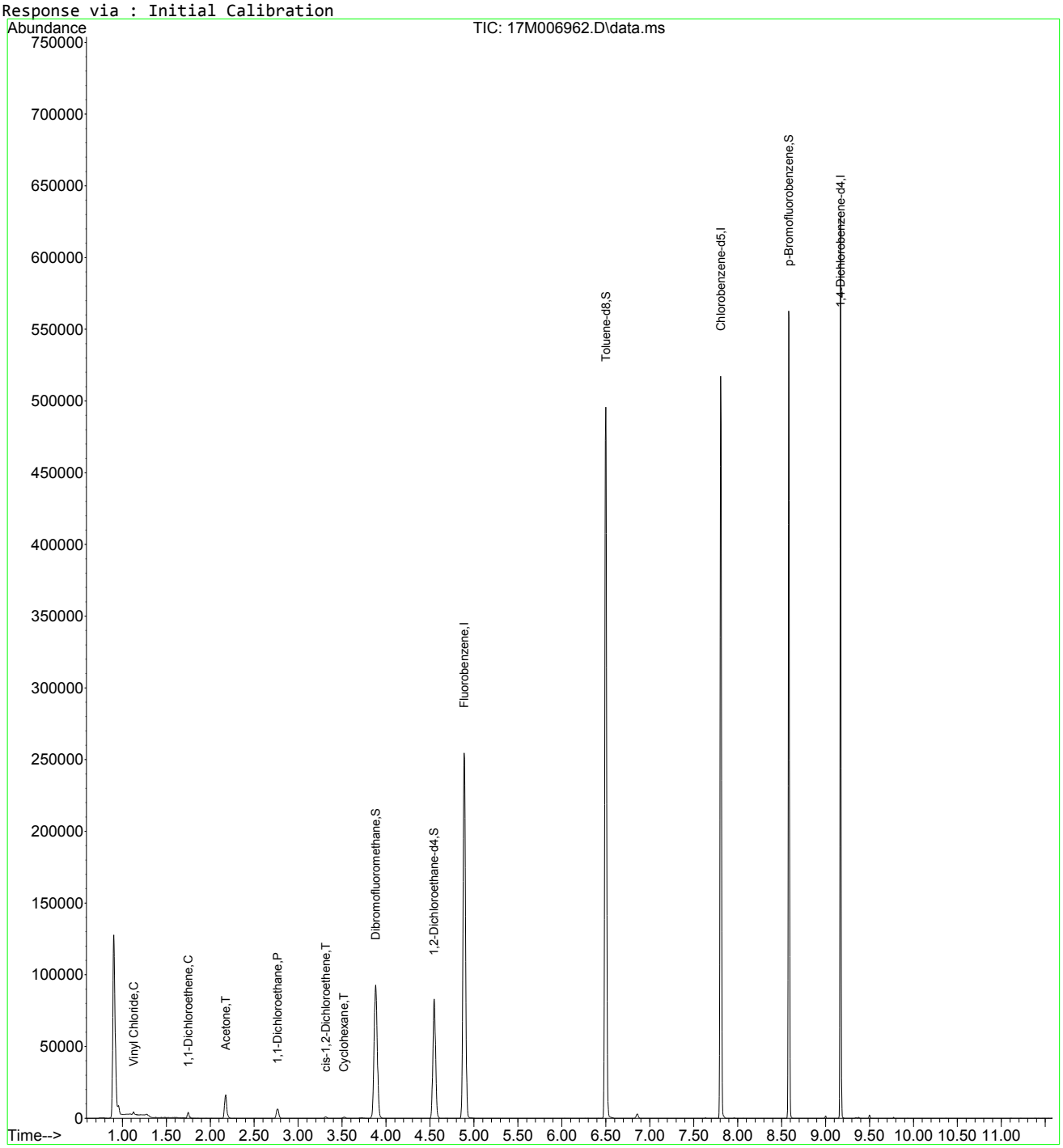
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.889	96	248118	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.808	117	185335	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.172	152	86184	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.882	111	75134	24.9923 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.969%		
32) 1,2-Dichloroethane-d4	4.545	65	67893	23.3674 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 93.470%		
44) Toluene-d8	6.499	98	282533	25.8754 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.502%		
63) p-Bromofluorobenzene	8.581	95	98776	26.3058 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.223%		
Target Compounds					Qvalue
4) Vinyl Chloride	1.128	62	1501	0.5332 ug/L	90
10) 1,1-Dichloroethene	1.748	61	1262	0.3429 ug/L	99
15) Acetone	2.173	43	19010	40.2925 ug/L	98
18) 1,1-Dichloroethane	2.764	63	7415	1.6136 ug/L	97
21) cis-1,2-Dichloroethene	3.314	96	543	0.1818 ug/L	89
23) Cyclohexane	3.520	56	619	0.1484 ug/L #	71

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

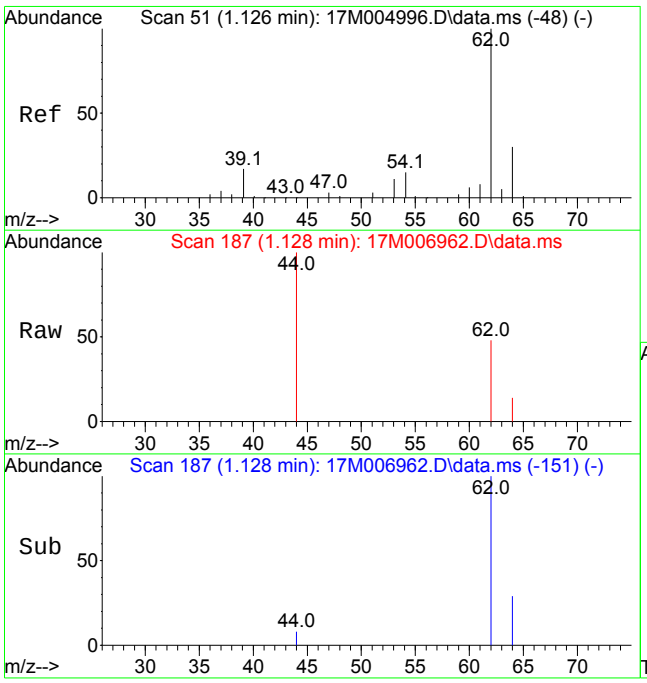
Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006962.D
Acq On : 18 Jul 2014 00:14
Operator : ADC
Sample : L14070607-05 A 826-LOW
Misc : 1,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jul 22 16:29:06 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



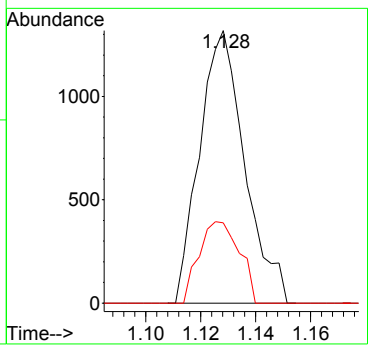
8260-VMS.M Tue Jul 22 16:29:07 2014 Page: 2

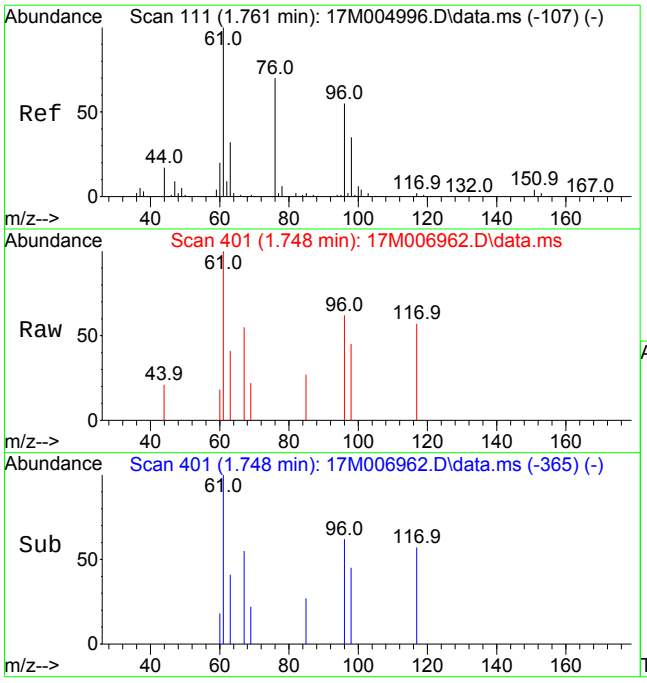


#4
Vinyl Chloride
Concen: 0.5332 ug/L
RT: 1.128 min Scan# 187
Delta R.T. 0.003 min
Lab File: 17M006962.D
Acq: 18 Jul 2014 00:14

Tgt Ion: 62 Resp: 1501

Ion	Ratio	Lower	Upper
62	100		
64	26.8	19.4	45.2

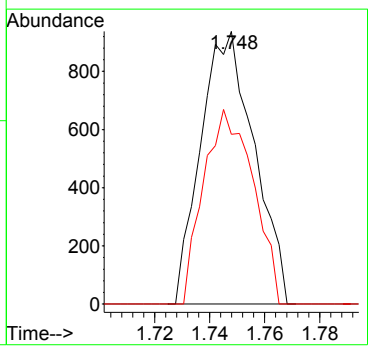


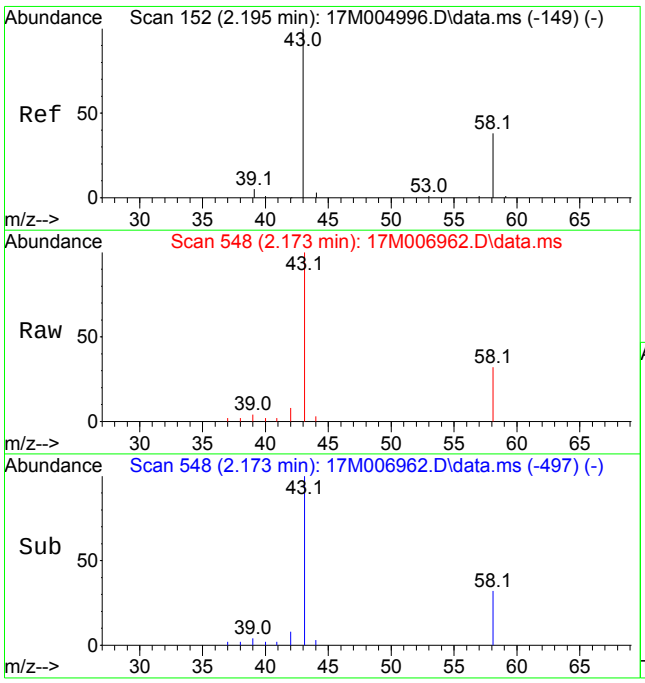


#10
1,1-Dichloroethene
Concen: 0.3429 ug/L
RT: 1.748 min Scan# 401
Delta R.T. 0.003 min
Lab File: 17M006962.D
Acq: 18 Jul 2014 00:14

Tgt Ion: 61 Resp: 1262

Ion	Ratio	Lower	Upper
61	100		
96	66.4	53.8	80.8

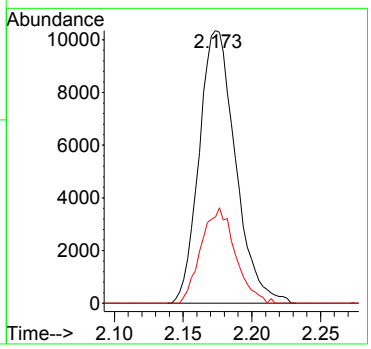


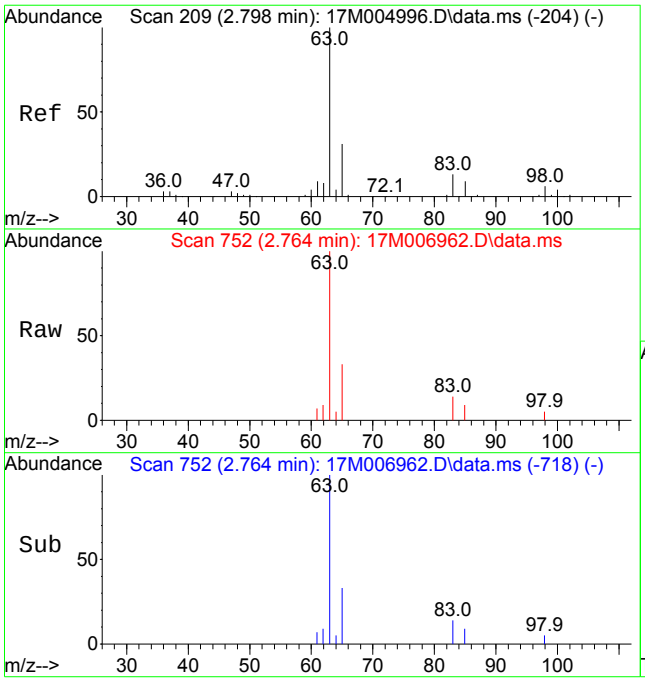


#15
Acetone
Concen: 40.2925 ug/L
RT: 2.173 min Scan# 548
Delta R.T. -0.003 min
Lab File: 17M006962.D
Acq: 18 Jul 2014 00:14

Tgt Ion: 43 Resp: 19010

Ion	Ratio	Lower	Upper
43	100		
58	32.9	18.9	44.1

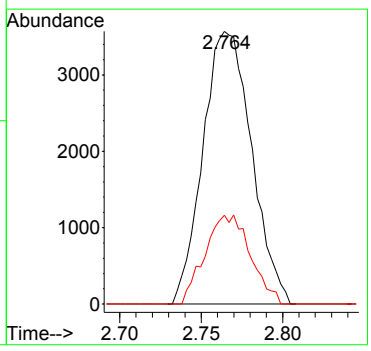


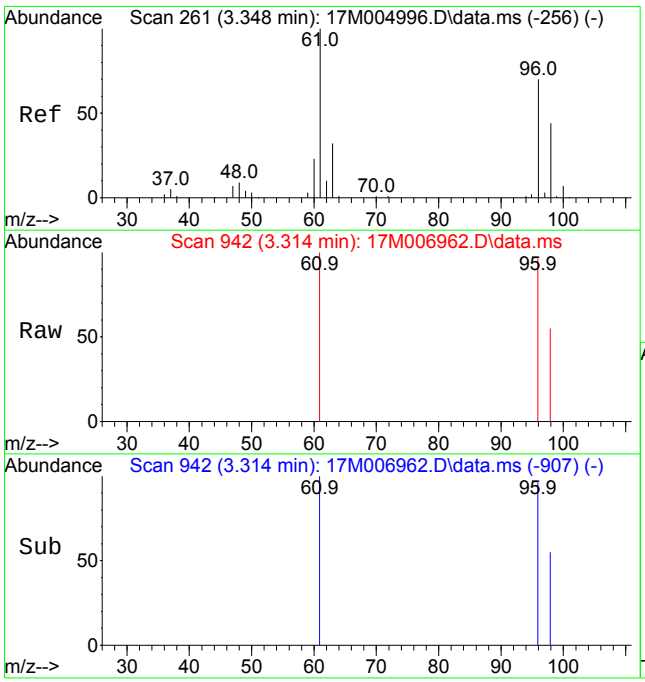


#18
1,1-Dichloroethane
Concen: 1.6136 ug/L
RT: 2.764 min Scan# 752
Delta R.T. -0.003 min
Lab File: 17M006962.D
Acq: 18 Jul 2014 00:14

Tgt Ion: 63 Resp: 7415

Ion	Ratio	Lower	Upper
63	100		
65	30.5	25.6	38.4

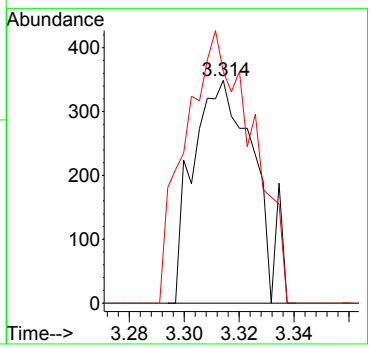


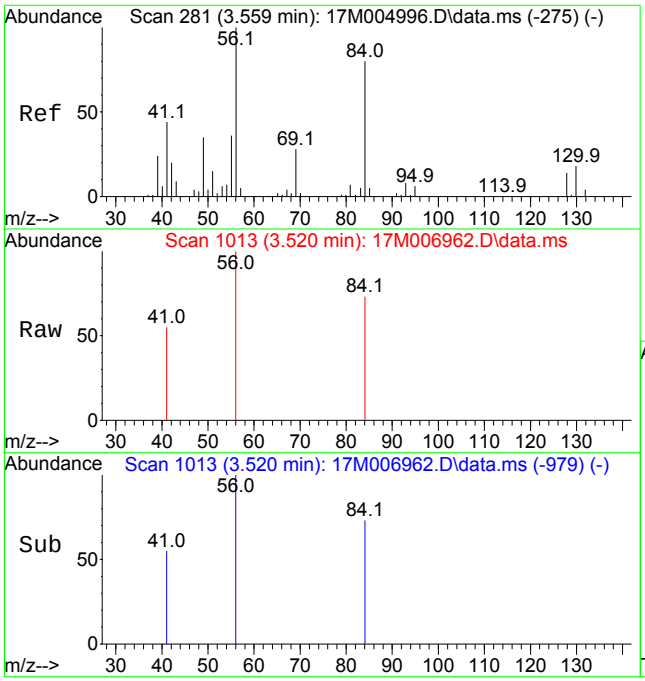


#21
cis-1,2-Dichloroethene
Concen: 0.1818 ug/L
RT: 3.314 min Scan# 942
Delta R.T. 0.000 min
Lab File: 17M006962.D
Acq: 18 Jul 2014 00:14

Tgt Ion: 96 Resp: 543

Ion	Ratio	Lower	Upper
96	100		
61	133.5	96.6	145.0

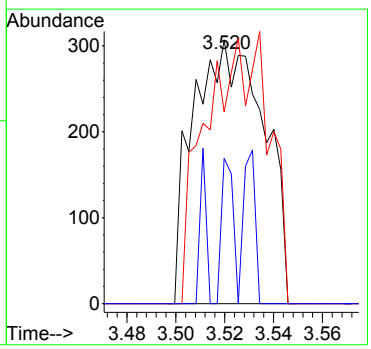




#23
Cyclohexane
Concen: 0.1484 ug/L
RT: 3.520 min Scan# 1013
Delta R.T. -0.000 min
Lab File: 17M006962.D
Acq: 18 Jul 2014 00:14

Tgt Ion: 56 Resp: 619

Ion	Ratio	Lower	Upper
56	100		
84	90.6	70.0	105.0
41	0.0	40.2	60.4#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02555.D Vial: 14
Acq On : 17 Jul 2014 21:49 Operator: ADC
Sample : L14070607-06 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 09:57:04 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	800490	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	659958	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.09	152	316527	25.00 ug/L	-0.01

System Monitoring Compounds

37) Dibromofluoromethane	9.67	111	246288	24.6364 ug/L	0.01
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.56%		
43) 1,2-Dichloroethane-d4	10.27	65	244034	25.0151 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 100.08%		
57) Toluene-d8	12.51	98	898817	23.2465 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 93.00%		
78) p-Bromofluorobenzene	15.67	95	332253	24.2784 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.12%		

Target Compounds

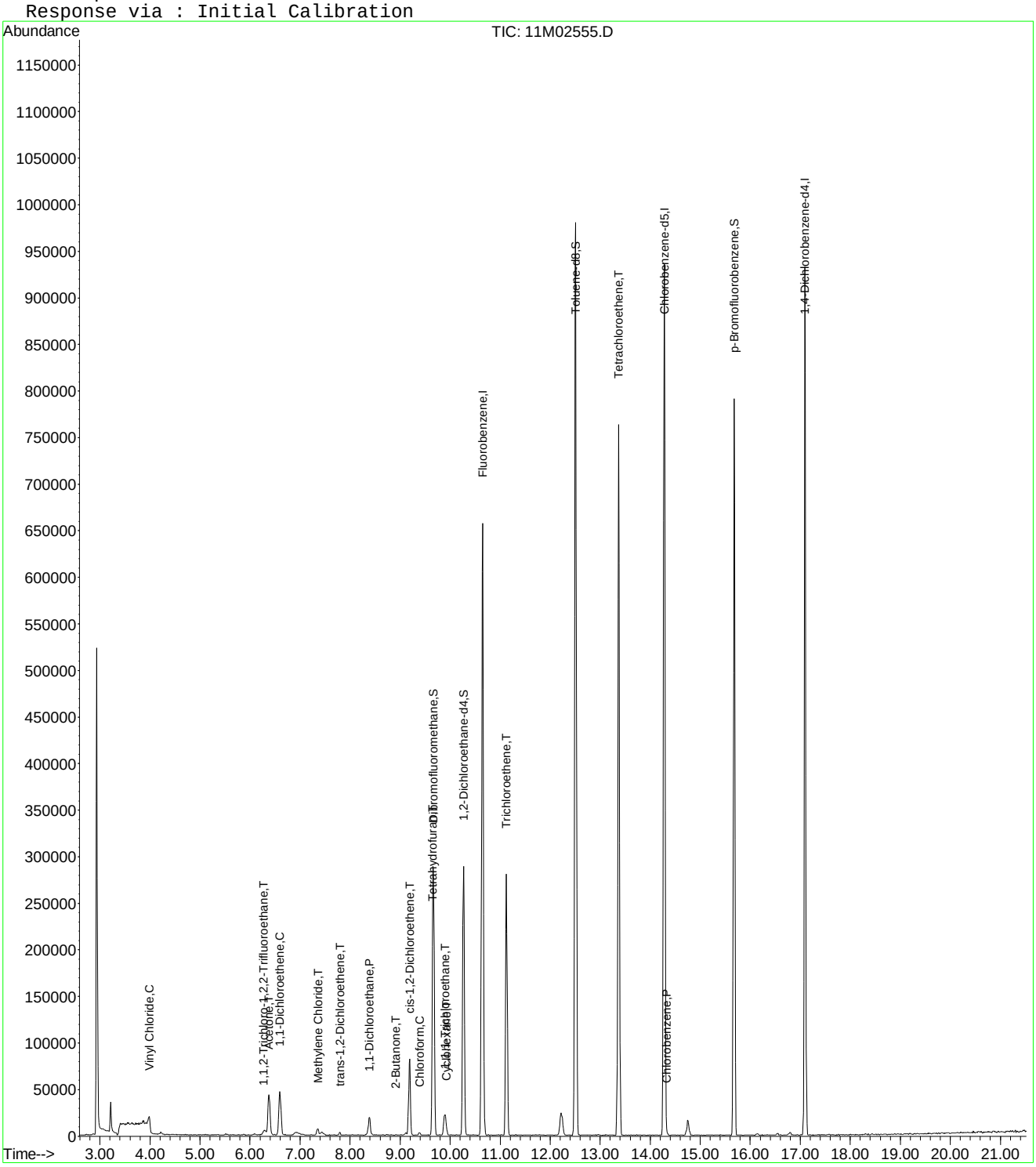
					Qvalue
4) Vinyl Chloride	3.98	62	7466	0.5477 ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	3567	0.3601 ug/L #	29
13) Acetone	6.38	43	83879	51.8902 ug/L	94
14) 1,1-Dichloroethene	6.60	61	51365	3.5031 ug/L	89
19) Methylene Chloride	7.36	84	4714	0.4345 ug/L	87
23) trans-1,2-Dichloroethene	7.80	96	1562	0.1457 ug/L	84
27) 1,1-Dichloroethane	8.39	63	30177	1.7181 ug/L	98
29) 2-Butanone	8.91	43	406	0.1752 ug/L #	54
32) cis-1,2-Dichloroethene	9.19	96	50233	4.3182 ug/L	73
33) Chloroform	9.39	83	3318	0.1843 ug/L	99
36) Tetrahydrofuran	9.65	42	707	0.4697 ug/L #	37
38) 1,1,1-Trichloroethane	9.90	97	24090	1.4436 ug/L	99
39) Cyclohexane	9.93	56	3004	0.1922 ug/L	83
46) Trichloroethene	11.13	130	122167	10.1790 ug/L	97
64) Tetrachloroethene	13.37	164	229755	22.8922 ug/L	96
68) Chlorobenzene	14.33	112	4642	0.1452 ug/L	96

(#) = qualifier out of range (m) = manual integration
11M02555.D 8260WTR.M Tue Jul 22 09:57:05 2014 Page 1

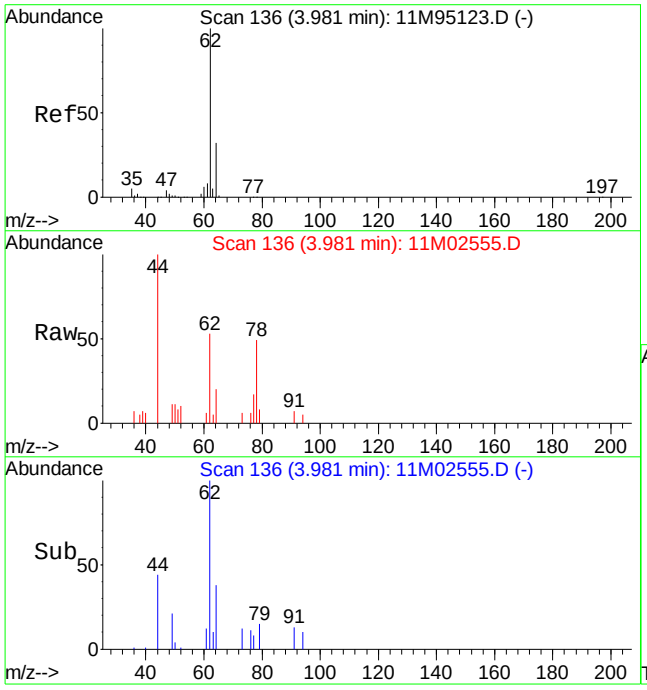
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02555.D Vial: 14
Acq On : 17 Jul 2014 21:49 Operator: ADC
Sample : L14070607-06 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 9:57 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration



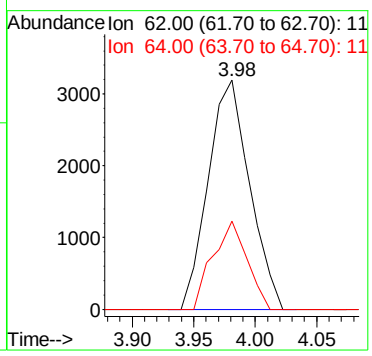
11M02555.D 8260WTR.M Tue Jul 22 09:57:06 2014 Page 2

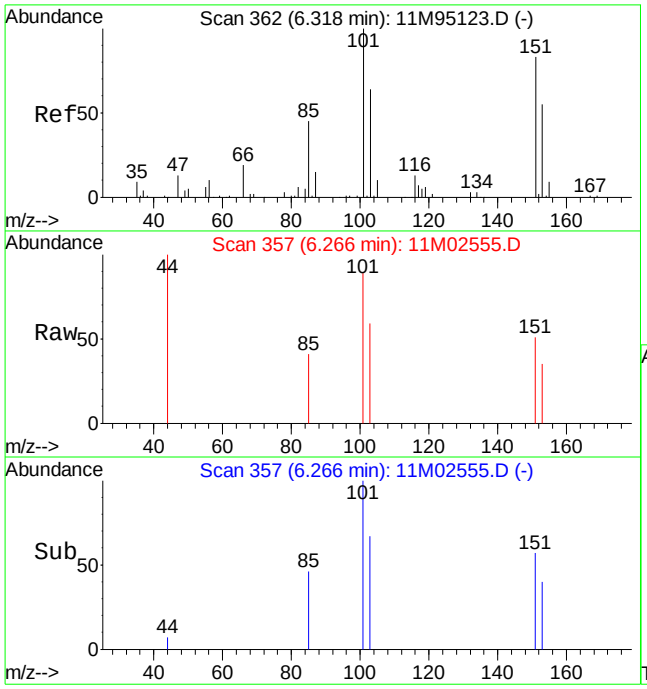


#4
Vinyl Chloride
Concen: 0.55 ug/L
RT: 3.98 min Scan# 136
Delta R.T. 0.00 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion: 62 Resp: 7466

Ion	Ratio	Lower	Upper
62	100		
64	31.9	19.3	45.1

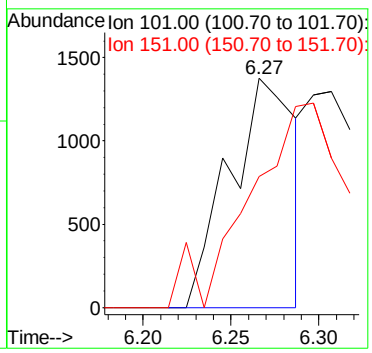


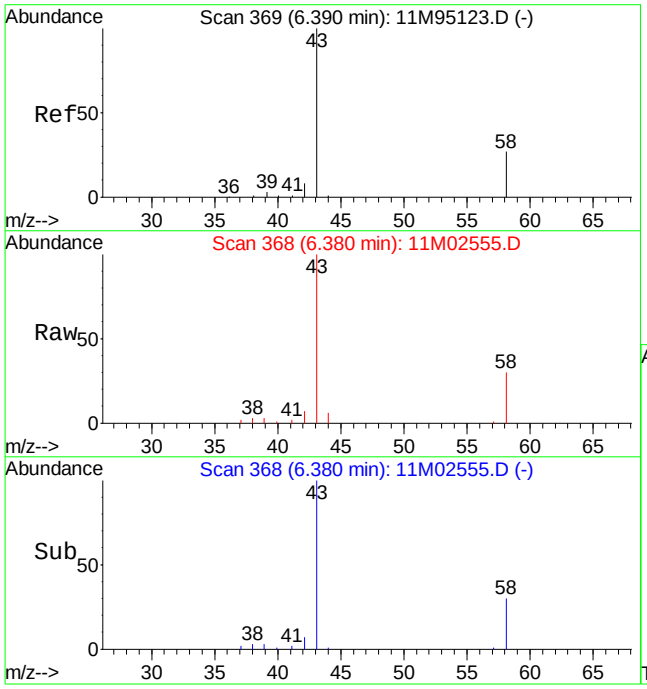


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 0.36 ug/L
RT: 6.27 min Scan# 357
Delta R.T. -0.02 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion:101 Resp: 3567

Ion	Ratio	Lower	Upper
101	100		
151	147.5	43.3	123.3#

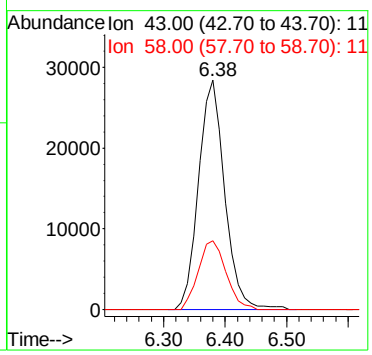


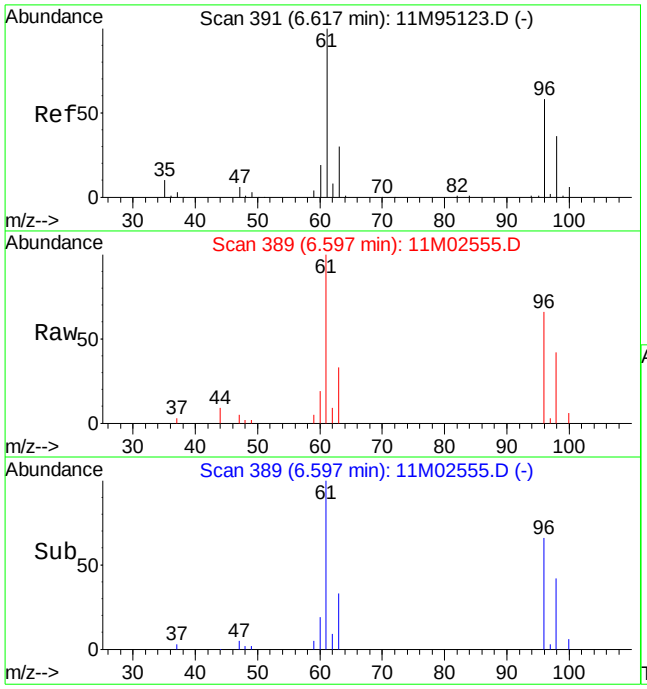


#13
Acetone
Concen: 51.89 ug/L
RT: 6.38 min Scan# 368
Delta R.T. 0.00 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion: 43 Resp: 83879

Ion	Ratio	Lower	Upper
43	100		
58	31.6	17.2	40.0

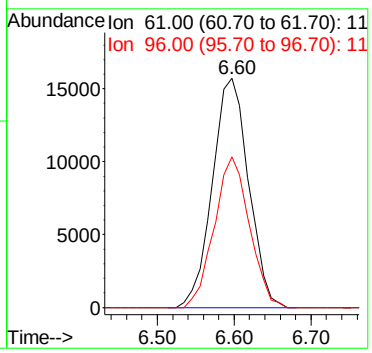


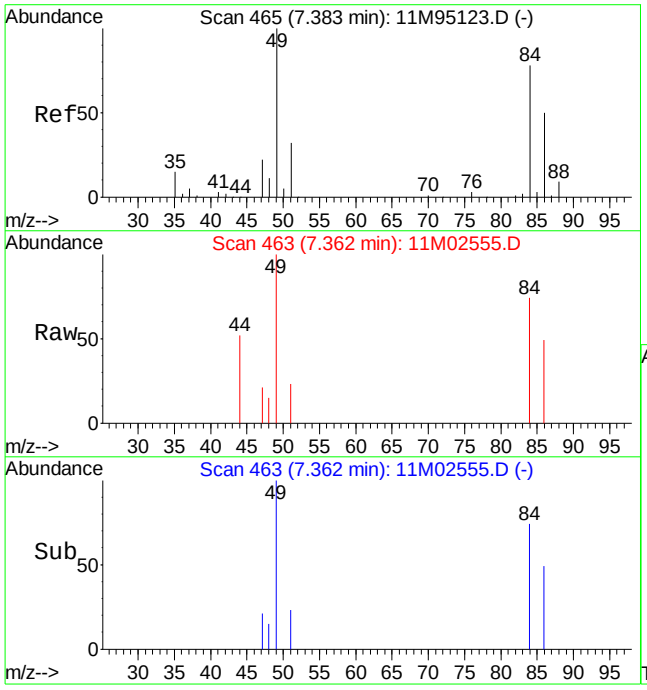


#14
1,1-Dichloroethene
Concen: 3.50 ug/L
RT: 6.60 min Scan# 389
Delta R.T. 0.00 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion: 61 Resp: 51365

Ion	Ratio	Lower	Upper
61	100		
96	63.9	33.5	78.1

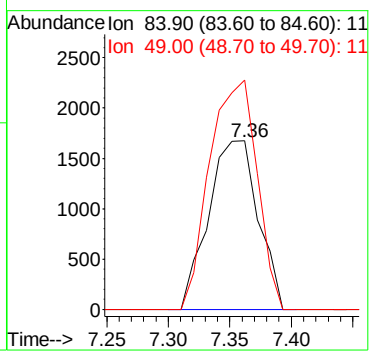


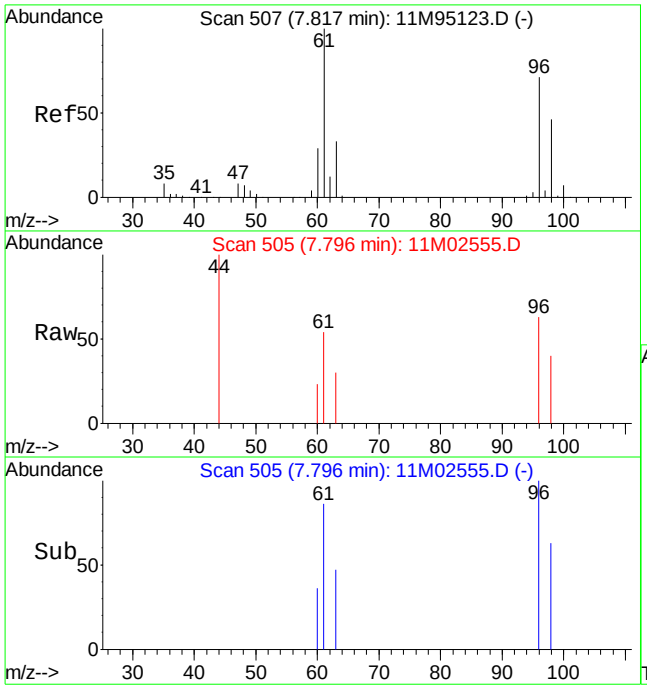


#19
Methylene Chloride
Concen: 0.43 ug/L
RT: 7.36 min Scan# 463
Delta R.T. 0.01 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion: 84 Resp: 4714

Ion	Ratio	Lower	Upper
84	100		
49	129.6	87.4	203.8

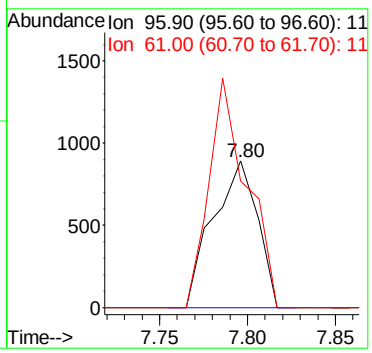


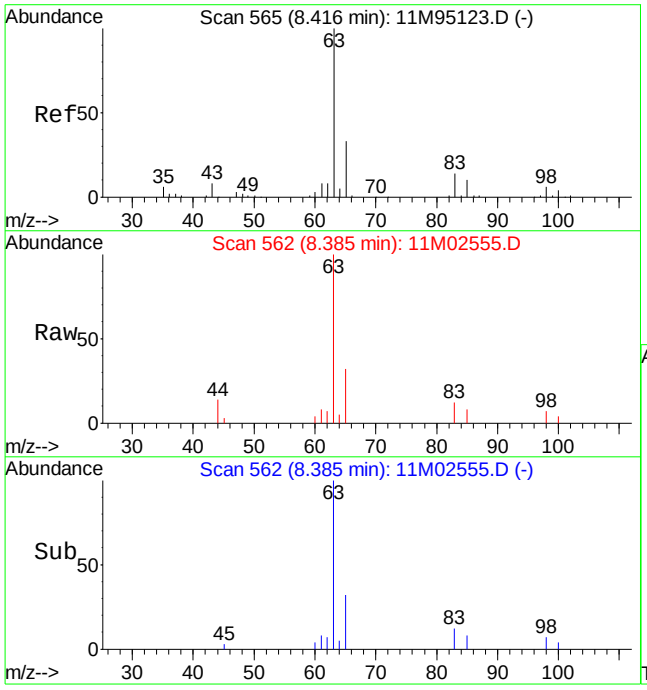


#23
trans-1,2-Dichloroethene
Concen: 0.15 ug/L
RT: 7.80 min Scan# 505
Delta R.T. 0.00 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion: 96 Resp: 1562

Ion	Ratio	Lower	Upper
96	100		
61	133.5	92.8	216.4

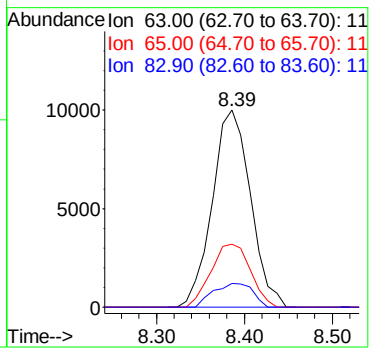


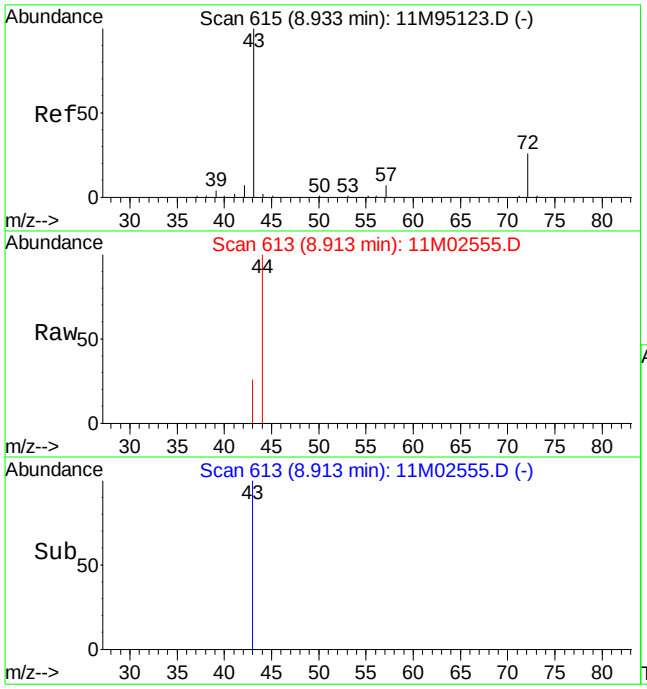


#27
1,1-Dichloroethane
Concen: 1.72 ug/L
RT: 8.39 min Scan# 562
Delta R.T. 0.00 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion: 63 Resp: 30177

Ion	Ratio	Lower	Upper
63	100		
65	33.1	19.3	45.1
83	12.5	7.9	18.5

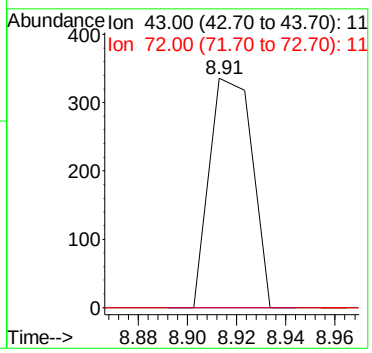


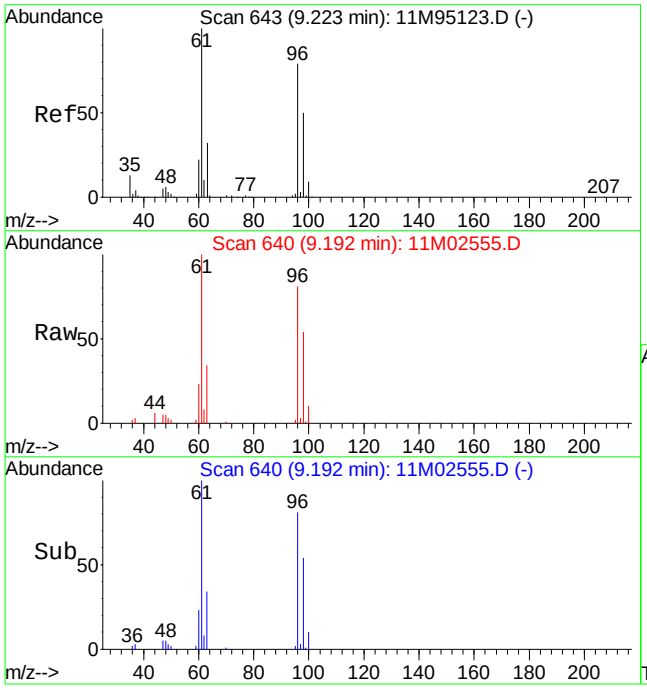


#29
2-Butanone
Concen: 0.18 ug/L
RT: 8.91 min Scan# 613
Delta R.T. 0.00 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion: 43 Resp: 406

Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.3	30.9#

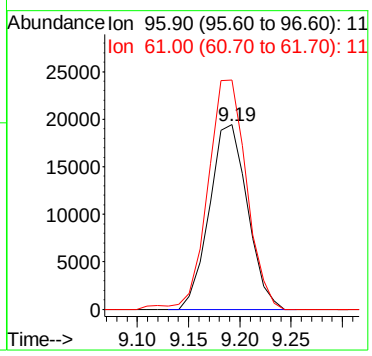


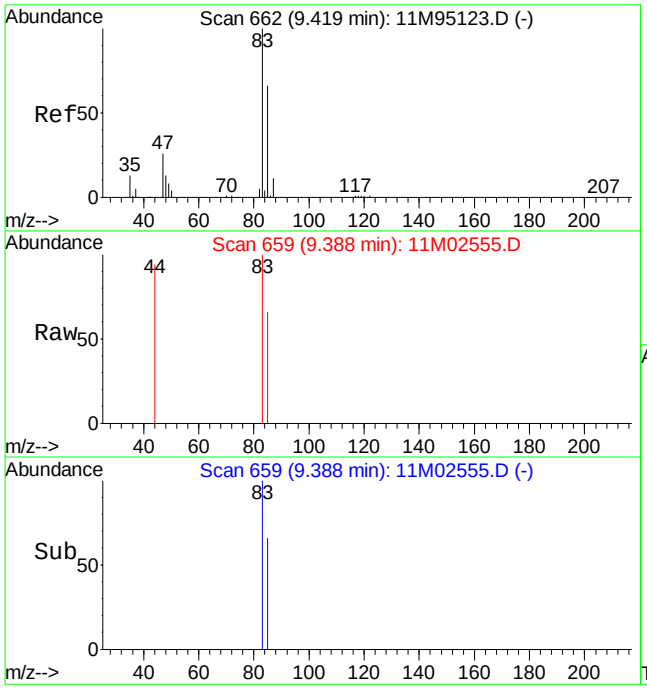


#32
cis-1,2-Dichloroethene
Concen: 4.32 ug/L
RT: 9.19 min Scan# 640
Delta R.T. 0.00 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion: 96 Resp: 50233

Ion	Ratio	Lower	Upper
96	100		
61	126.0	97.1	226.7

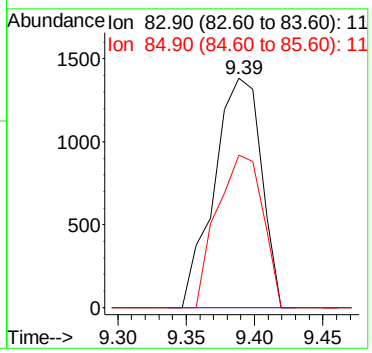


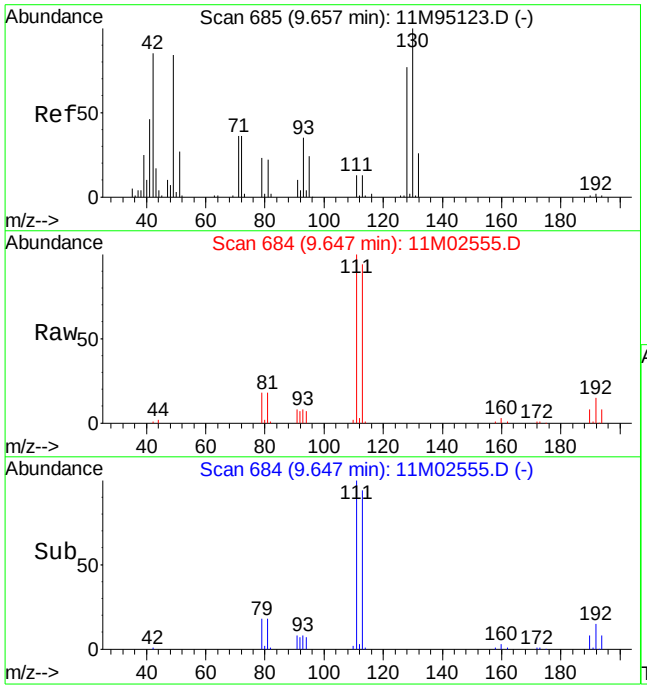


#33
Chloroform
Concen: 0.18 ug/L
RT: 9.39 min Scan# 659
Delta R.T. 0.00 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion: 83 Resp: 3318

Ion	Ratio	Lower	Upper
83	100		
85	64.6	39.2	91.6

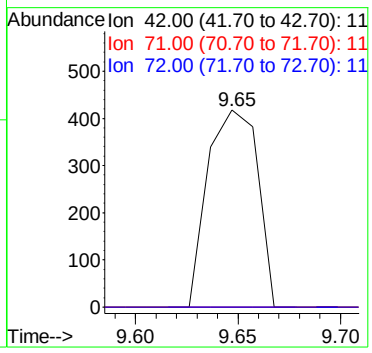


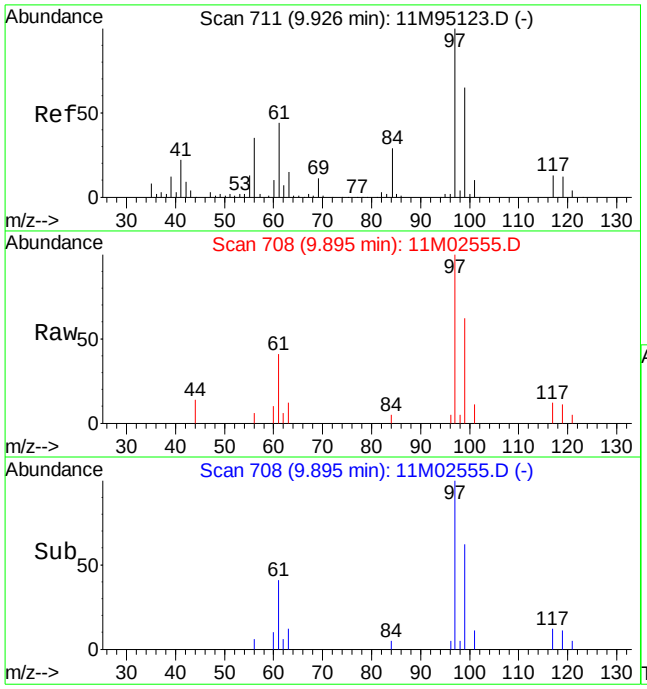


#36
Tetrahydrofuran
Concen: 0.47 ug/L
RT: 9.65 min Scan# 684
Delta R.T. 0.01 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion: 42 Resp: 707

Ion	Ratio	Lower	Upper
42	100		
71	0.0	22.4	52.2#
72	0.0	23.8	55.4#

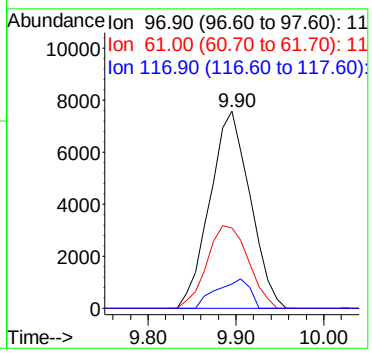


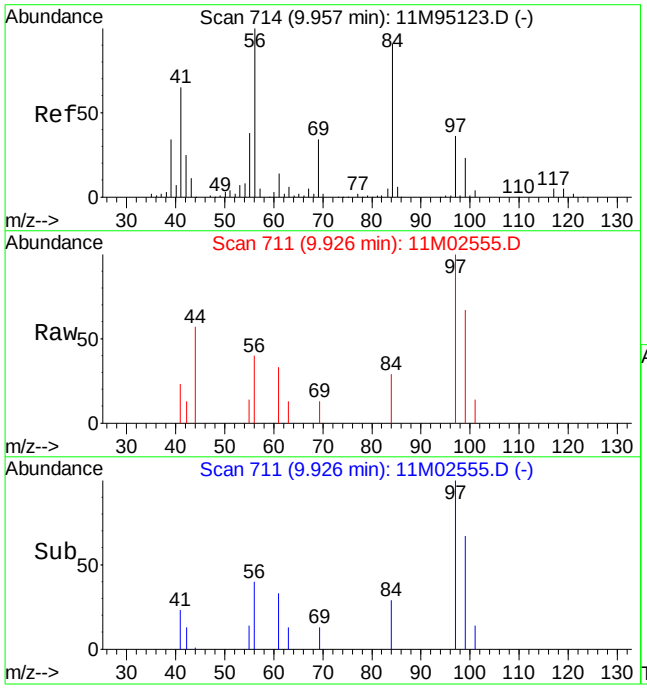


#38
1,1,1-Trichloroethane
Concen: 1.44 ug/L
RT: 9.90 min Scan# 708
Delta R.T. 0.00 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion: 97 Resp: 24090

Ion	Ratio	Lower	Upper
97	100		
61	43.3	26.2	61.0
117	12.4	10.2	15.4

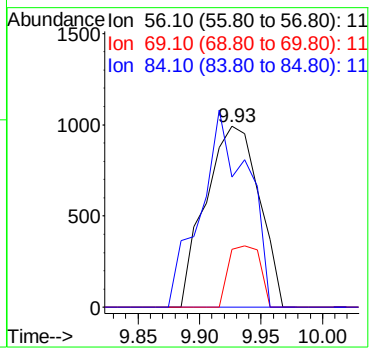


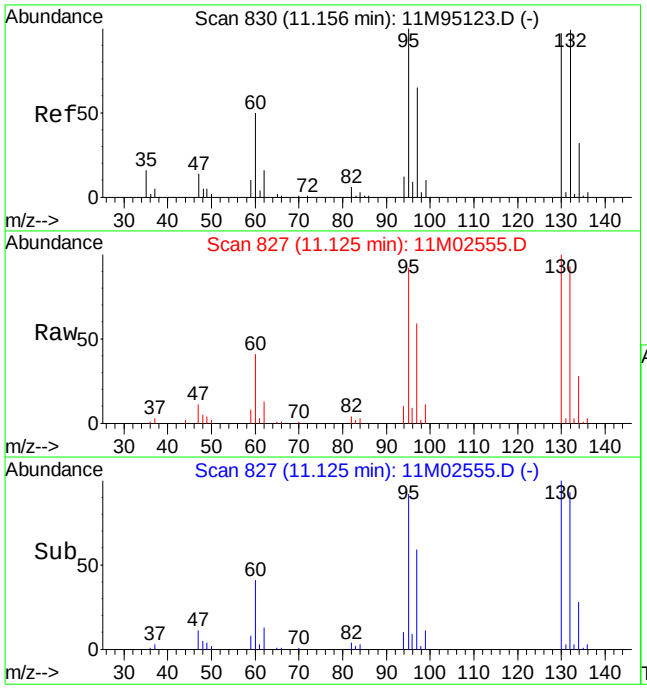


#39
Cyclohexane
Concen: 0.19 ug/L
RT: 9.93 min Scan# 711
Delta R.T. 0.00 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion: 56 Resp: 3004

Ion	Ratio	Lower	Upper
56	100		
69	20.0	17.0	39.6
84	95.5	48.1	112.1

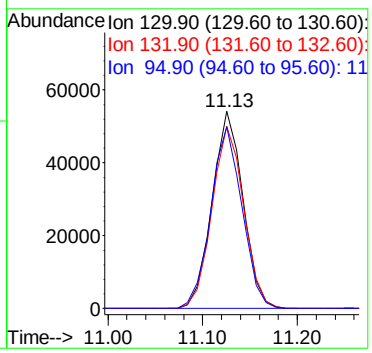


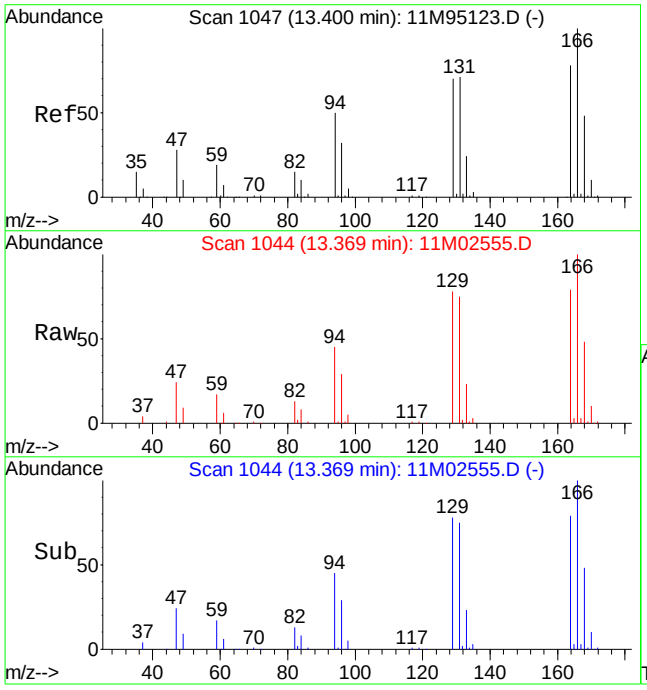


#46
Trichloroethene
Concen: 10.18 ug/L
RT: 11.13 min Scan# 827
Delta R.T. 0.00 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion:130 Resp: 122167

Ion	Ratio	Lower	Upper
130	100		
132	94.8	58.0	135.4
95	93.0	58.3	135.9

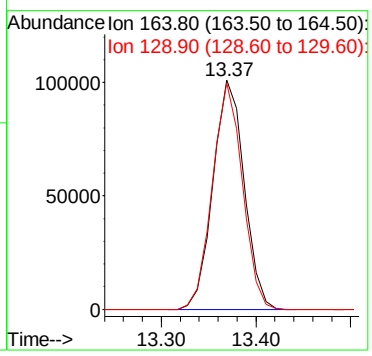


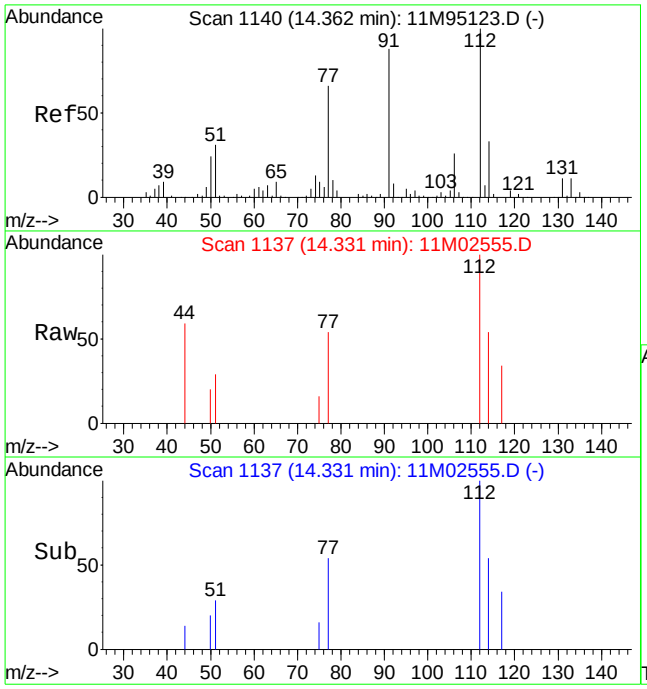


#64
Tetrachloroethene
Concen: 22.89 ug/L
RT: 13.37 min Scan# 1044
Delta R.T. 0.00 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion:164 Resp: 229755

Ion	Ratio	Lower	Upper
164	100		
129	95.4	59.7	139.3

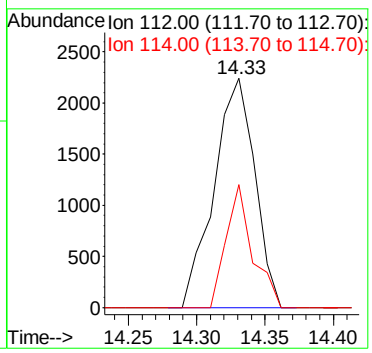




#68
Chlorobenzene
Concen: 0.15 ug/L
RT: 14.33 min Scan# 1137
Delta R.T. 0.00 min
Lab File: 11M02555.D
Acq: 17 Jul 2014 21:49

Tgt Ion:112 Resp: 4642

Ion	Ratio	Lower	Upper
112	100		
114	34.6	19.5	45.5



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02556.D Vial: 15
Acq On : 17 Jul 2014 22:21 Operator: ADC
Sample : L14070607-07 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 09:57:09 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	823174	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	672110	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.09	152	334961	25.00 ug/L	-0.01

System Monitoring Compounds

37) Dibromofluoromethane	9.66	111	247523	24.0776 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 96.32%		
43) 1,2-Dichloroethane-d4	10.27	65	246826	24.6040 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 98.40%		
57) Toluene-d8	12.51	98	905478	22.9953 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 92.00%		
78) p-Bromofluorobenzene	15.67	95	337420	23.2991 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 93.20%		

Target Compounds

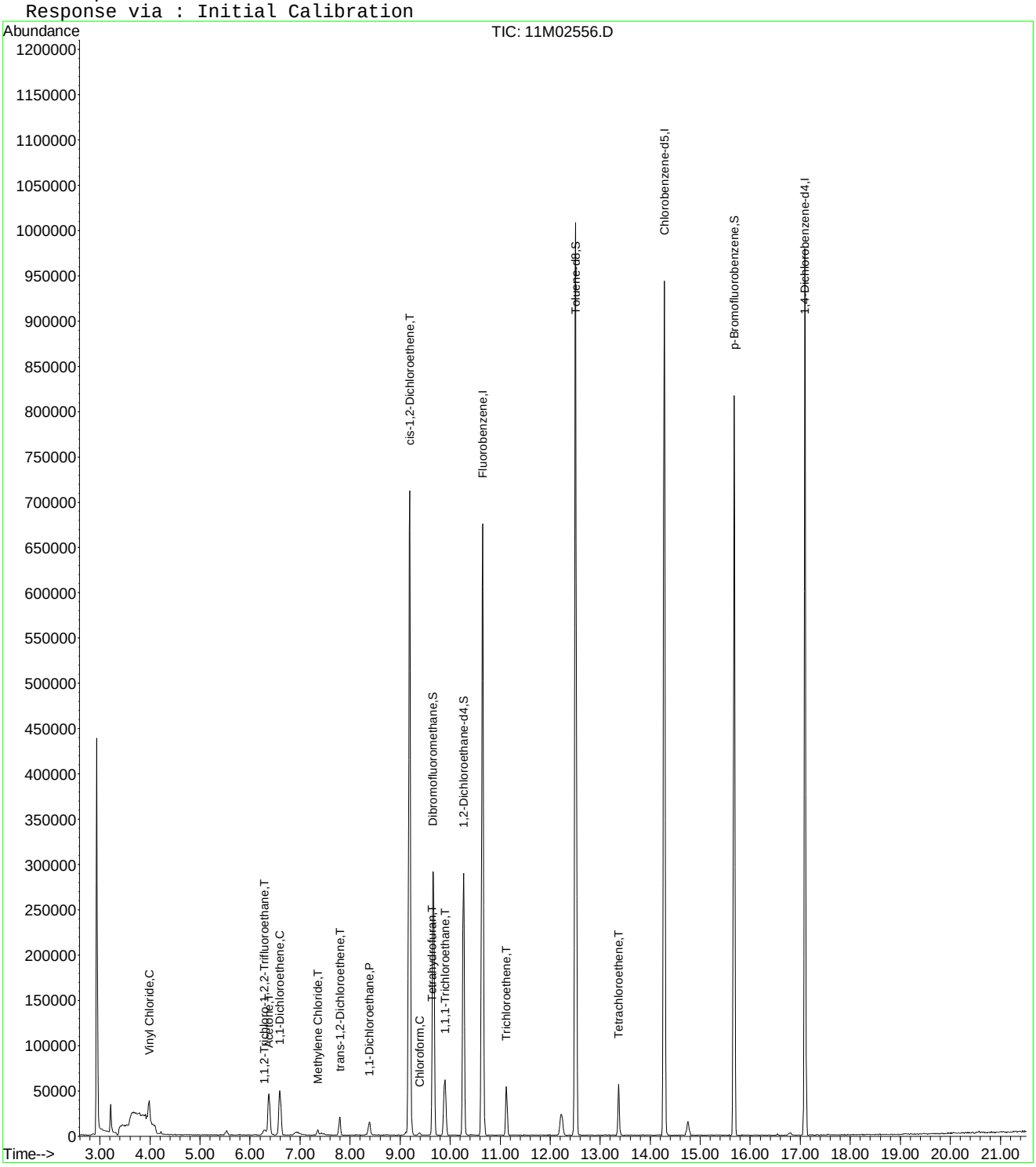
					Qvalue
4) Vinyl Chloride	3.98	62	31236	2.2282 ug/L #	42
12) 1,1,2-Trichloro-1,2,2-Trif	6.29	101	7953	0.7808 ug/L	86
13) Acetone	6.38	43	88671	53.3431 ug/L	96
14) 1,1-Dichloroethene	6.60	61	55730	3.6960 ug/L	91
19) Methylene Chloride	7.35	84	3961	0.3550 ug/L	81
23) trans-1,2-Dichloroethene	7.80	96	11451	1.0390 ug/L	86
27) 1,1-Dichloroethane	8.39	63	23635	1.3086 ug/L	98
32) cis-1,2-Dichloroethene	9.19	96	431735	36.0910 ug/L	71
33) Chloroform	9.39	83	3371	0.1821 ug/L	92
36) Tetrahydrofuran	9.64	42	795	0.5136 ug/L #	37
38) 1,1,1-Trichloroethane	9.90	97	65265	3.8032 ug/L	96
46) Trichloroethene	11.13	130	25154	2.0381 ug/L	95
64) Tetrachloroethene	13.37	164	17275	1.6901 ug/L	93

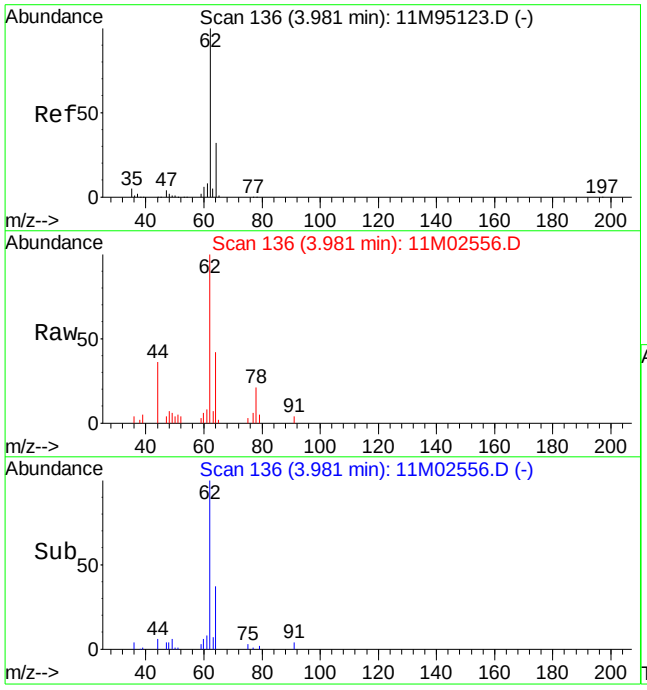
(#) = qualifier out of range (m) = manual integration
11M02556.D 8260WTR.M Tue Jul 22 09:57:10 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02556.D Vial: 15
Acq On : 17 Jul 2014 22:21 Operator: ADC
Sample : L14070607-07 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 9:57 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration

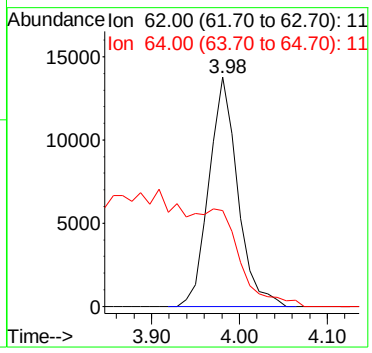


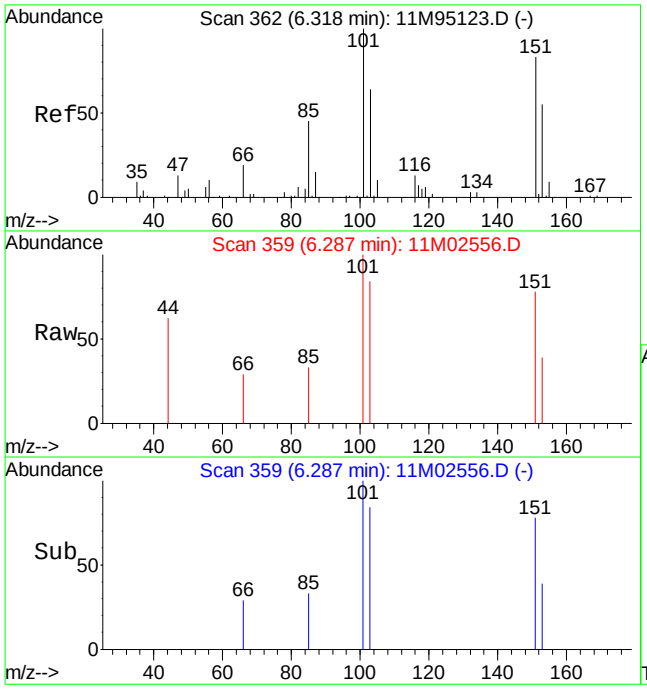


#4
Vinyl Chloride
Concen: 2.23 ug/L
RT: 3.98 min Scan# 136
Delta R.T. 0.00 min
Lab File: 11M02556.D
Acq: 17 Jul 2014 22:21

Tgt Ion: 62 Resp: 31236

Ion	Ratio	Lower	Upper
62	100		
64	0.0	19.3	45.1#

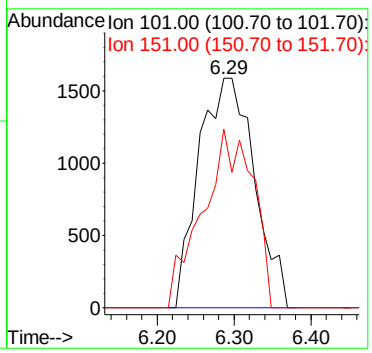


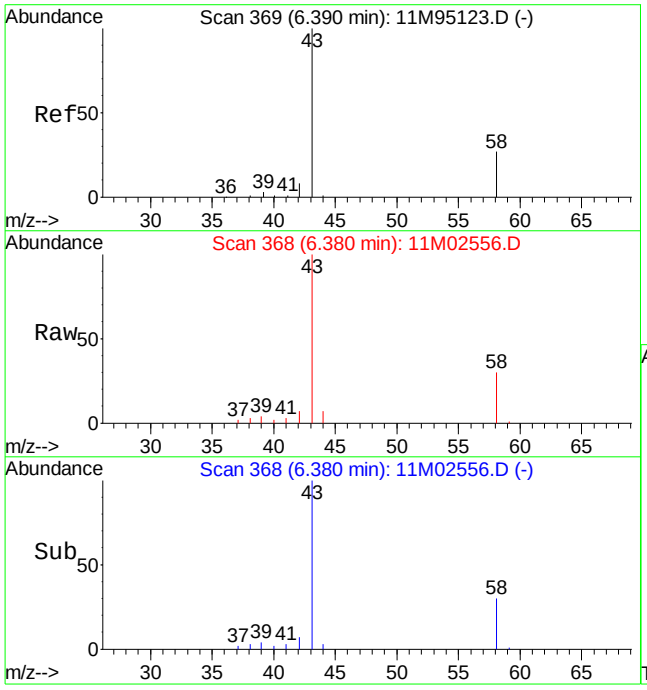


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 0.78 ug/L
RT: 6.29 min Scan# 359
Delta R.T. 0.00 min
Lab File: 11M02556.D
Acq: 17 Jul 2014 22:21

Tgt Ion:101 Resp: 7953

Ion	Ratio	Lower	Upper
101	100		
151	70.8	43.3	123.3

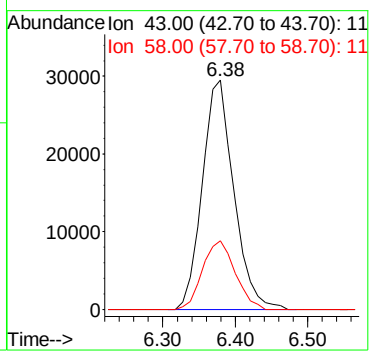


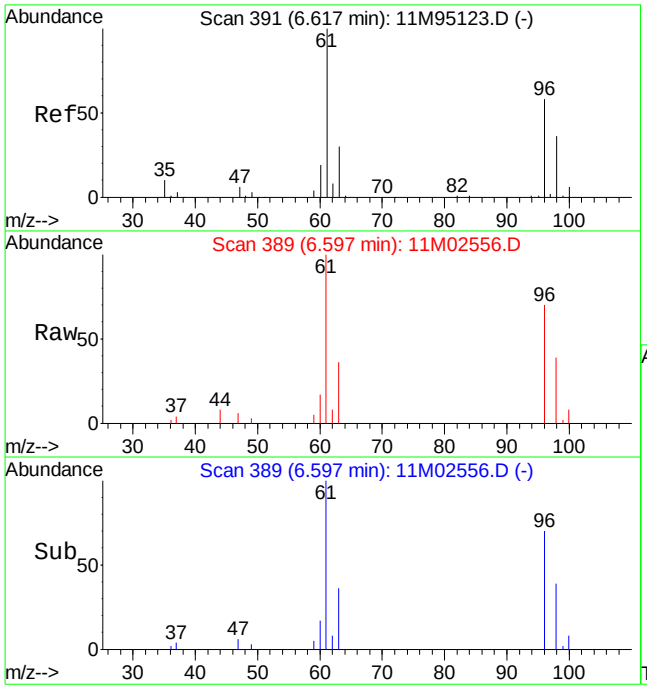


#13
Acetone
Concen: 53.34 ug/L
RT: 6.38 min Scan# 368
Delta R.T. 0.00 min
Lab File: 11M02556.D
Acq: 17 Jul 2014 22:21

Tgt Ion: 43 Resp: 88671

Ion	Ratio	Lower	Upper
43	100		
58	30.9	17.2	40.0

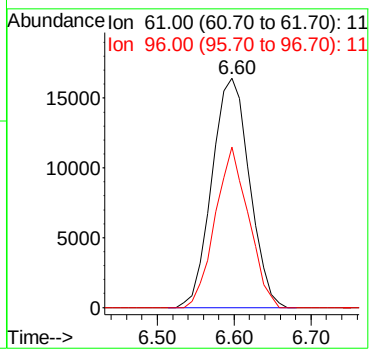


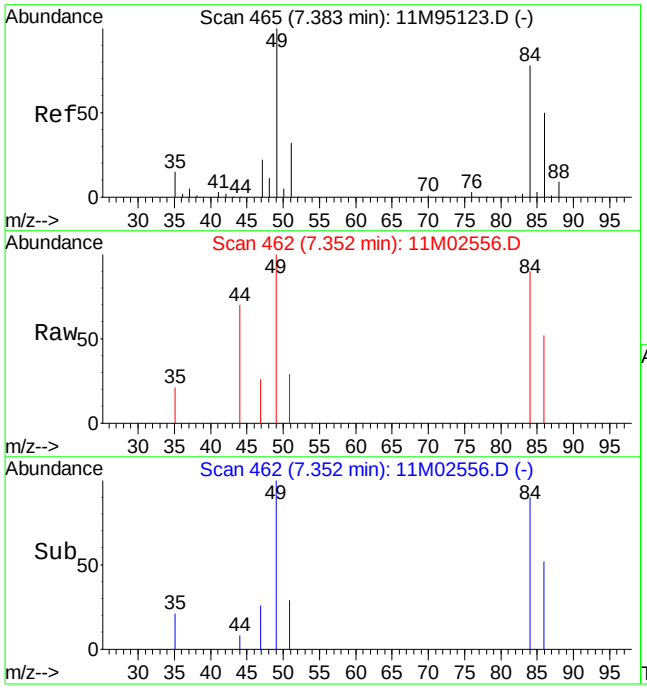


#14
1,1-Dichloroethene
Concen: 3.70 ug/L
RT: 6.60 min Scan# 389
Delta R.T. 0.00 min
Lab File: 11M02556.D
Acq: 17 Jul 2014 22:21

Tgt Ion: 61 Resp: 55730

Ion	Ratio	Lower	Upper
61	100		
96	62.3	33.5	78.1

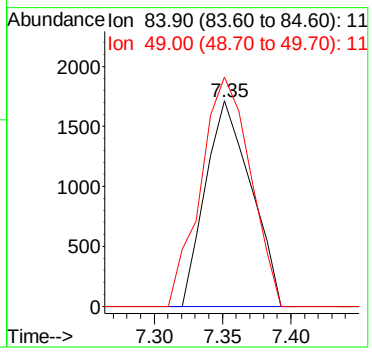


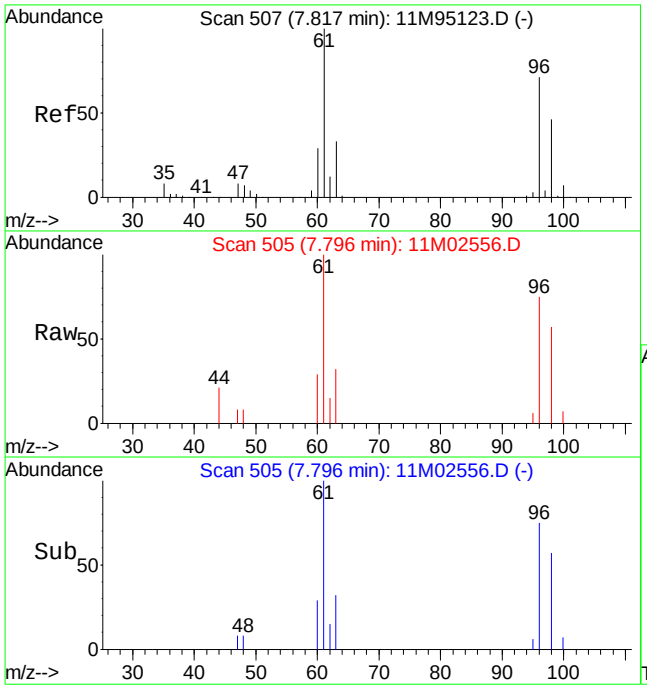


#19
Methylene Chloride
Concen: 0.36 ug/L
RT: 7.35 min Scan# 462
Delta R.T. 0.00 min
Lab File: 11M02556.D
Acq: 17 Jul 2014 22:21

Tgt Ion: 84 Resp: 3961

Ion	Ratio	Lower	Upper
84	100		
49	121.9	87.4	203.8

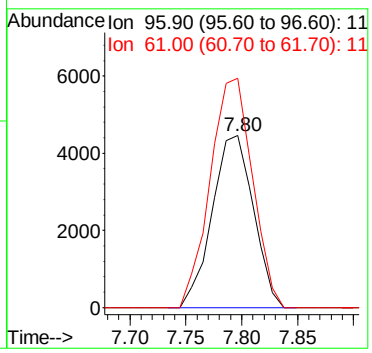


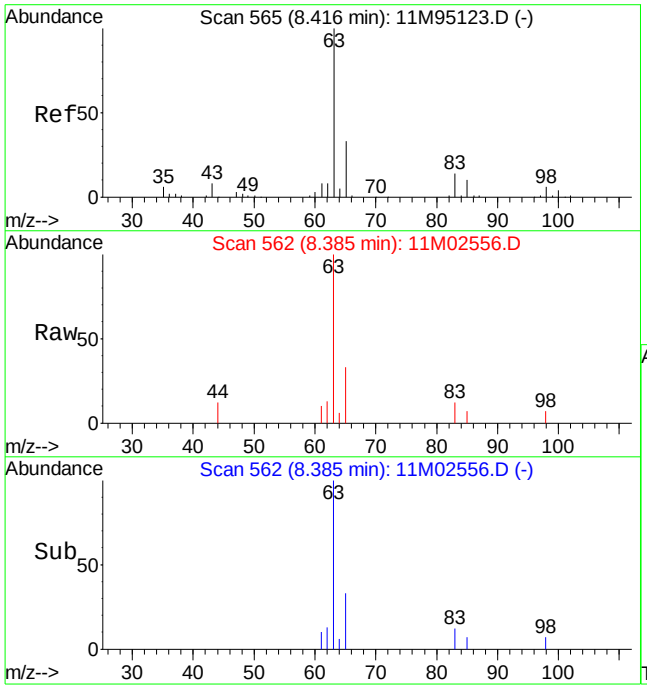


#23
trans-1,2-Dichloroethene
Concen: 1.04 ug/L
RT: 7.80 min Scan# 505
Delta R.T. 0.00 min
Lab File: 11M02556.D
Acq: 17 Jul 2014 22:21

Tgt Ion: 96 Resp: 11451

Ion	Ratio	Lower	Upper
96	100		
61	136.7	92.8	216.4

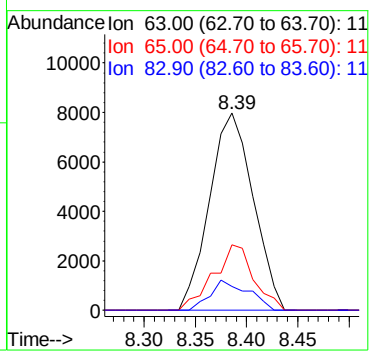


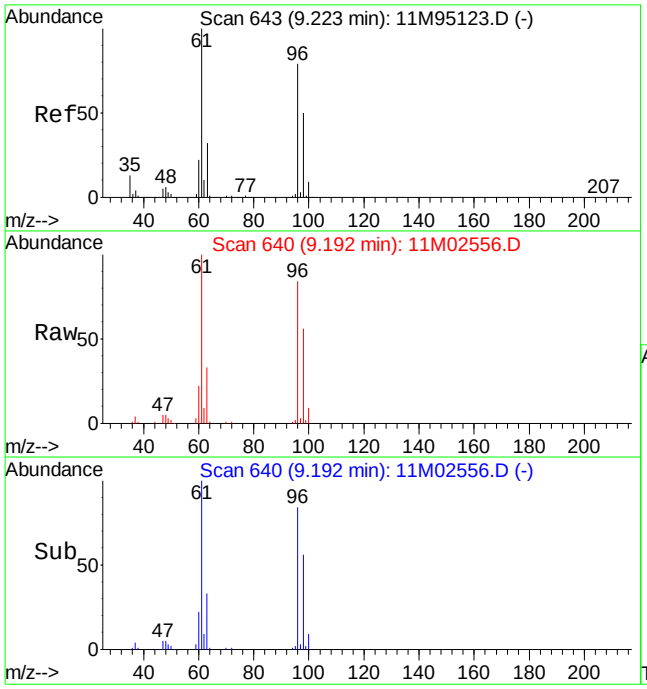


#27
1,1-Dichloroethane
Concen: 1.31 ug/L
RT: 8.39 min Scan# 562
Delta R.T. 0.00 min
Lab File: 11M02556.D
Acq: 17 Jul 2014 22:21

Tgt Ion: 63 Resp: 23635

Ion	Ratio	Lower	Upper
63	100		
65	30.5	19.3	45.1
83	13.2	7.9	18.5

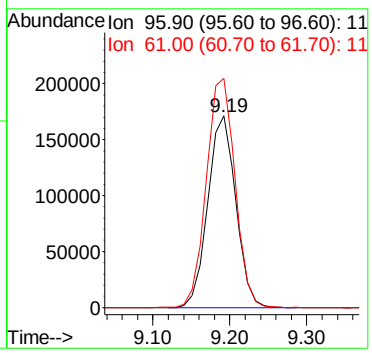


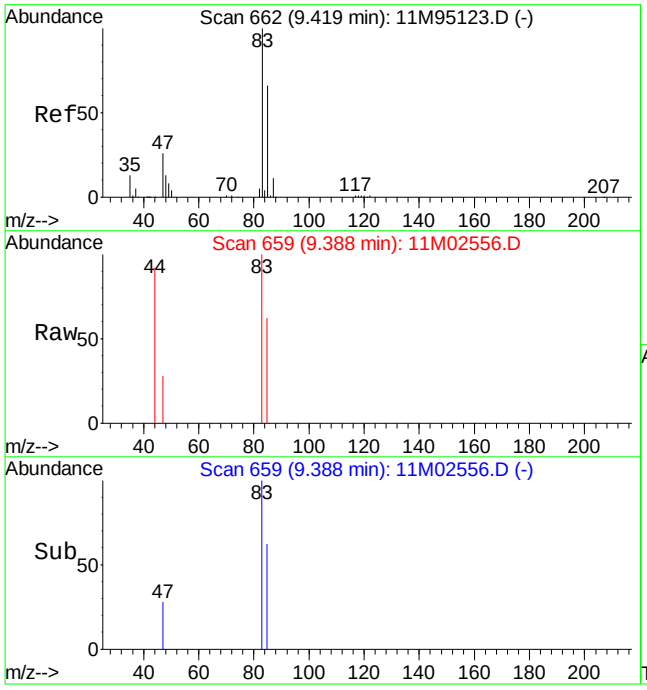


#32
cis-1,2-Dichloroethene
Concen: 36.09 ug/L
RT: 9.19 min Scan# 640
Delta R.T. 0.00 min
Lab File: 11M02556.D
Acq: 17 Jul 2014 22:21

Tgt Ion: 96 Resp: 431735

Ion	Ratio	Lower	Upper
96	100		
61	122.7	97.1	226.7

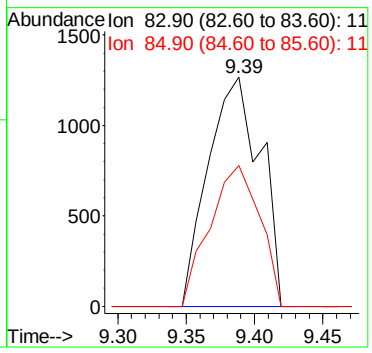


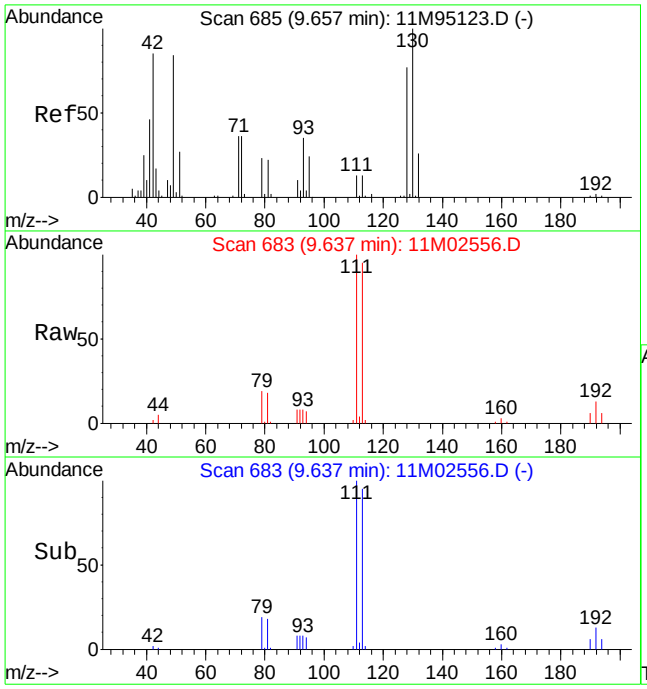


#33
Chloroform
Concen: 0.18 ug/L
RT: 9.39 min Scan# 659
Delta R.T. 0.00 min
Lab File: 11M02556.D
Acq: 17 Jul 2014 22:21

Tgt Ion: 83 Resp: 3371

Ion	Ratio	Lower	Upper
83	100		
85	58.7	39.2	91.6

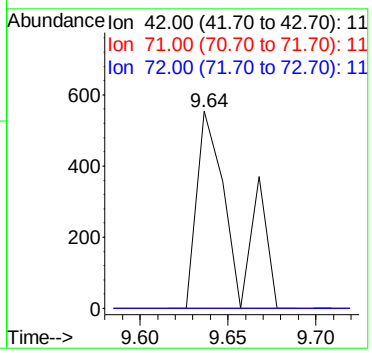


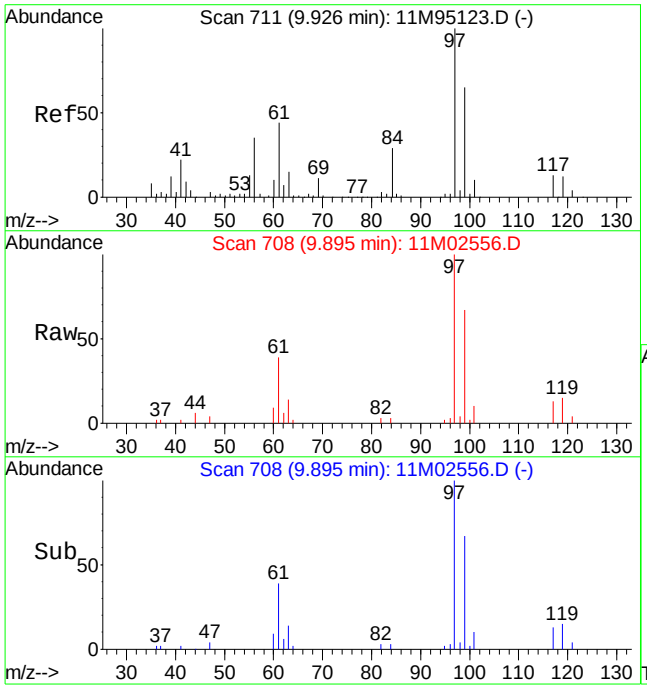


#36
Tetrahydrofuran
Concen: 0.51 ug/L
RT: 9.64 min Scan# 683
Delta R.T. 0.00 min
Lab File: 11M02556.D
Acq: 17 Jul 2014 22:21

Tgt Ion: 42 Resp: 795

Ion	Ratio	Lower	Upper
42	100		
71	0.0	22.4	52.2#
72	0.0	23.8	55.4#

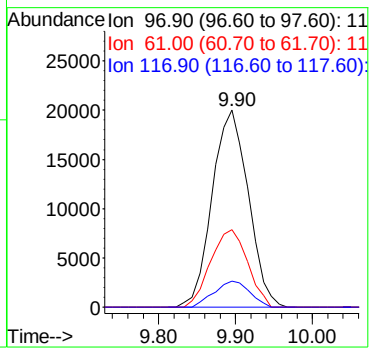


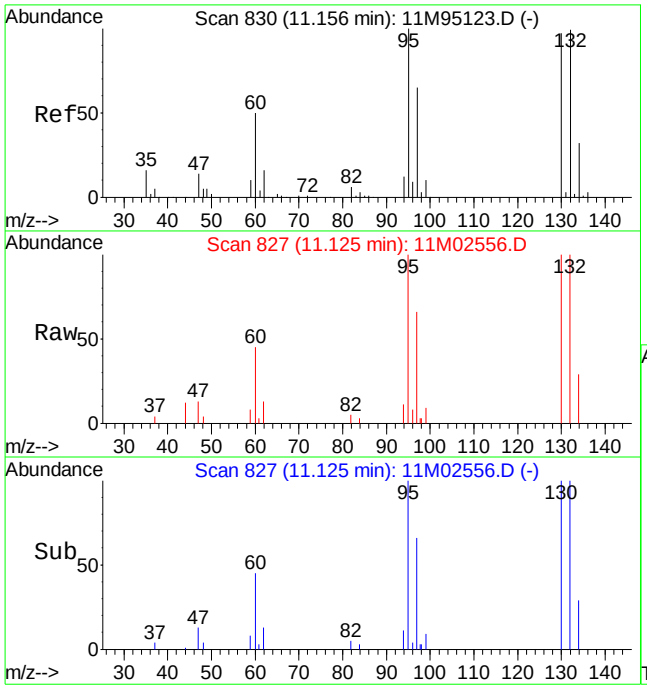


#38
1,1,1-Trichloroethane
Concen: 3.80 ug/L
RT: 9.90 min Scan# 708
Delta R.T. 0.00 min
Lab File: 11M02556.D
Acq: 17 Jul 2014 22:21

Tgt Ion: 97 Resp: 65265

Ion	Ratio	Lower	Upper
97	100		
61	40.3	26.2	61.0
117	13.2	10.2	15.4

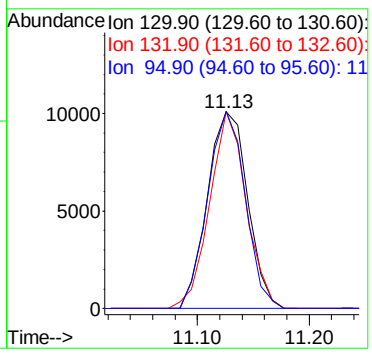


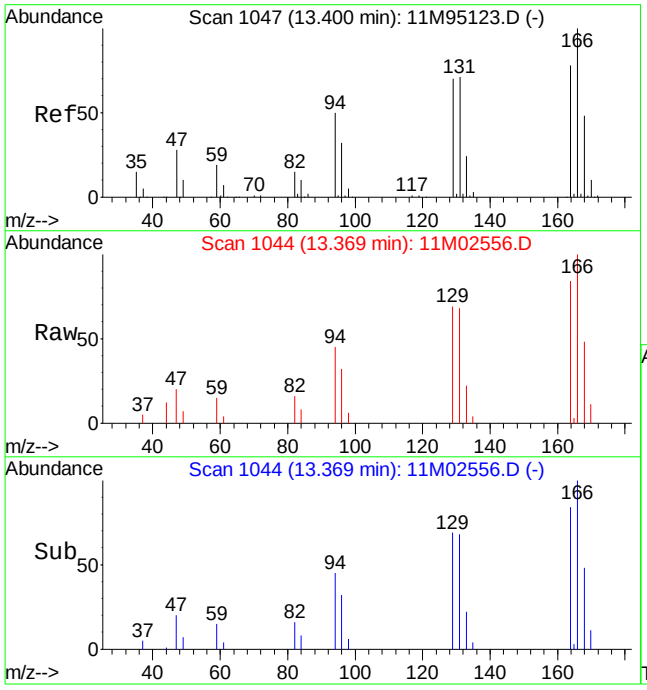


#46
Trichloroethene
Concen: 2.04 ug/L
RT: 11.13 min Scan# 827
Delta R.T. 0.00 min
Lab File: 11M02556.D
Acq: 17 Jul 2014 22:21

Tgt Ion:130 Resp: 25154

Ion	Ratio	Lower	Upper
130	100		
132	90.6	58.0	135.4
95	94.1	58.3	135.9

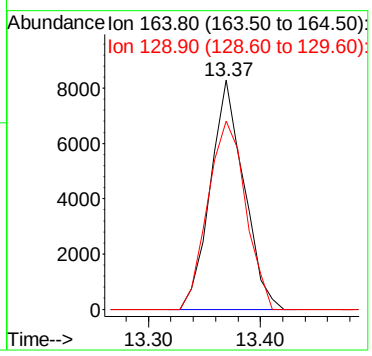




#64
Tetrachloroethene
Concen: 1.69 ug/L
RT: 13.37 min Scan# 1044
Delta R.T. 0.00 min
Lab File: 11M02556.D
Acq: 17 Jul 2014 22:21

Tgt Ion:164 Resp: 17275

Ion	Ratio	Lower	Upper
164	100		
129	92.4	59.7	139.3



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02557.D Vial: 16
Acq On : 17 Jul 2014 22:52 Operator: ADC
Sample : L14070607-08 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 09:57:13 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	783627	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	648967	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.09	152	319147	25.00 ug/L	-0.01

System Monitoring Compounds

37) Dibromofluoromethane	9.66	111	244177	24.9509 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.80%		
43) 1,2-Dichloroethane-d4	10.27	65	246354	25.7963 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 103.20%		
57) Toluene-d8	12.51	98	889669	23.3996 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 93.60%		
78) p-Bromofluorobenzene	15.67	95	330767	23.9714 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 95.88%		

Target Compounds

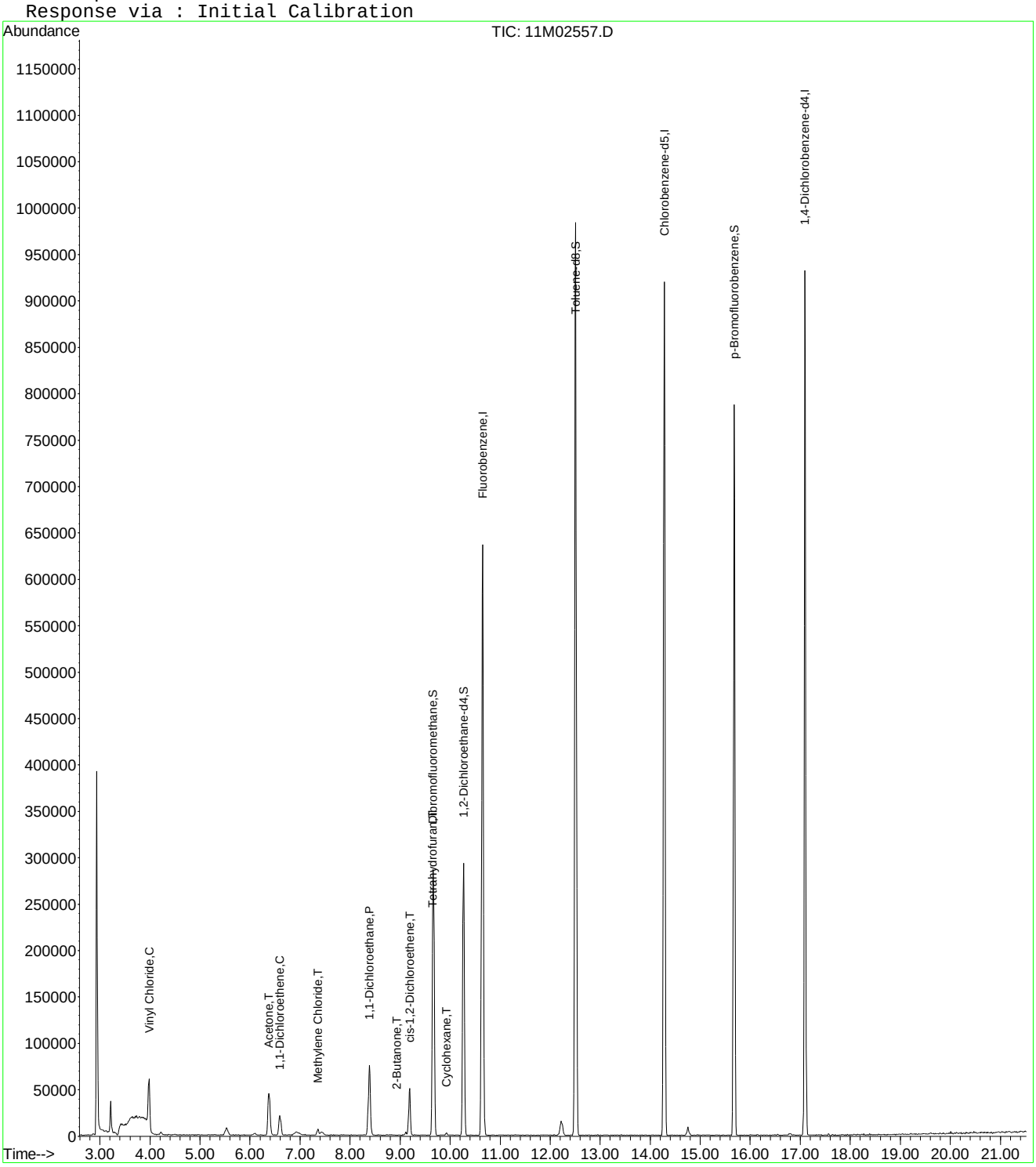
					Qvalue
4) Vinyl Chloride	3.98	62	61037	4.5738 ug/L	89
13) Acetone	6.38	43	89925	56.8276 ug/L	94
14) 1,1-Dichloroethene	6.60	61	24429	1.7019 ug/L	95
19) Methylene Chloride	7.35	84	4533	0.4268 ug/L	83
27) 1,1-Dichloroethane	8.39	63	110099	6.4033 ug/L	99
29) 2-Butanone	8.93	43	378	0.1666 ug/L #	54
32) cis-1,2-Dichloroethene	9.19	96	30209	2.6528 ug/L	74
36) Tetrahydrofuran	9.65	42	1064	0.7221 ug/L #	66
39) Cyclohexane	9.93	56	1852	0.1210 ug/L	83

(#) = qualifier out of range (m) = manual integration
11M02557.D 8260WTR.M Tue Jul 22 09:57:14 2014 Page 1

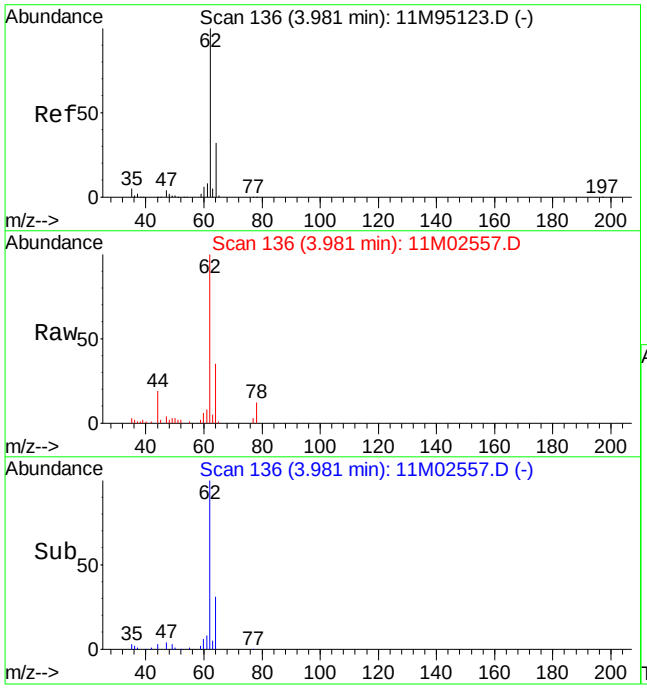
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02557.D Vial: 16
Acq On : 17 Jul 2014 22:52 Operator: ADC
Sample : L14070607-08 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 9:57 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration



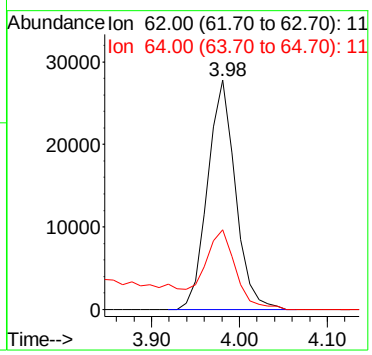
11M02557.D 8260WTR.M Tue Jul 22 09:57:14 2014 Page 2

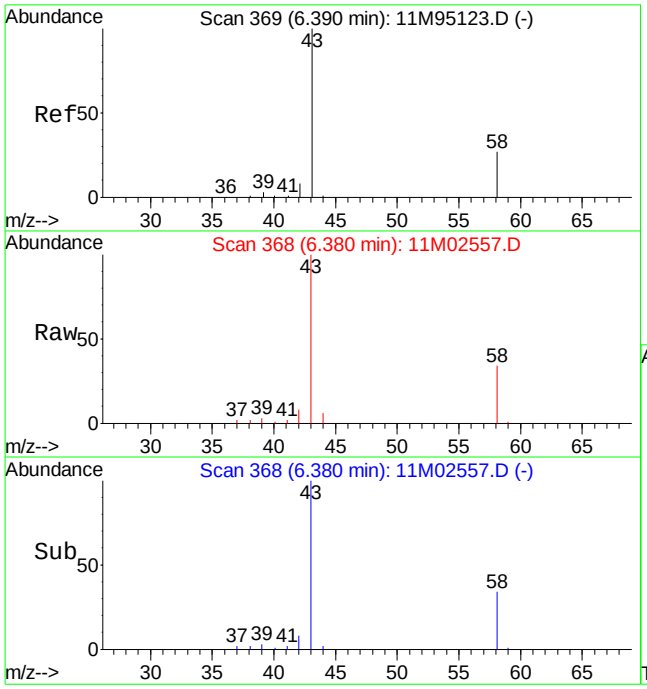


#4
Vinyl Chloride
Concen: 4.57 ug/L
RT: 3.98 min Scan# 136
Delta R.T. 0.00 min
Lab File: 11M02557.D
Acq: 17 Jul 2014 22:52

Tgt Ion: 62 Resp: 61037

Ion	Ratio	Lower	Upper
62	100		
64	38.6	19.3	45.1

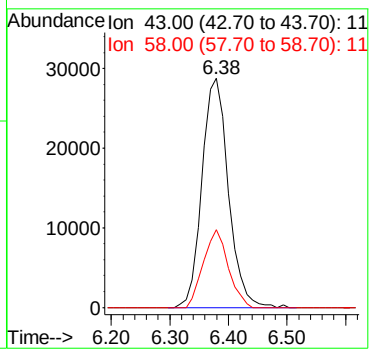


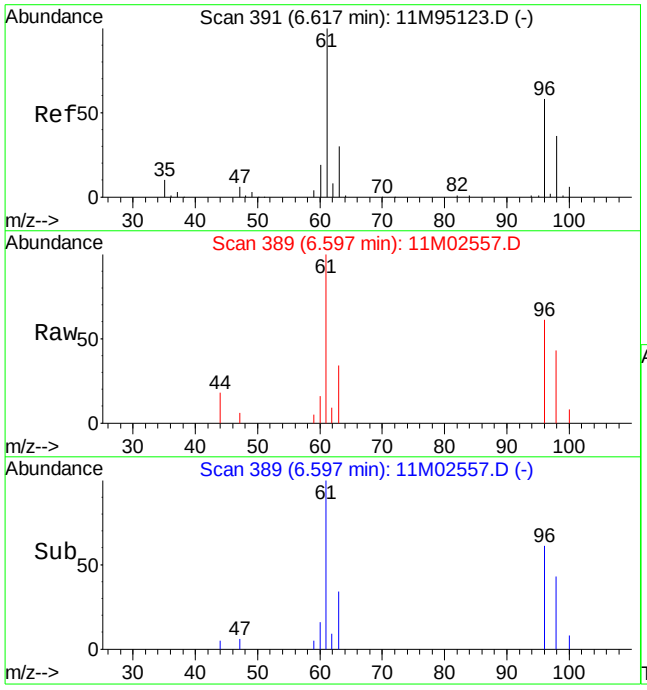


#13
Acetone
Concen: 56.83 ug/L
RT: 6.38 min Scan# 368
Delta R.T. 0.00 min
Lab File: 11M02557.D
Acq: 17 Jul 2014 22:52

Tgt Ion: 43 Resp: 89925

Ion	Ratio	Lower	Upper
43	100		
58	31.9	17.2	40.0

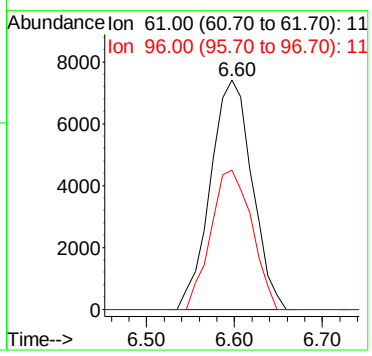


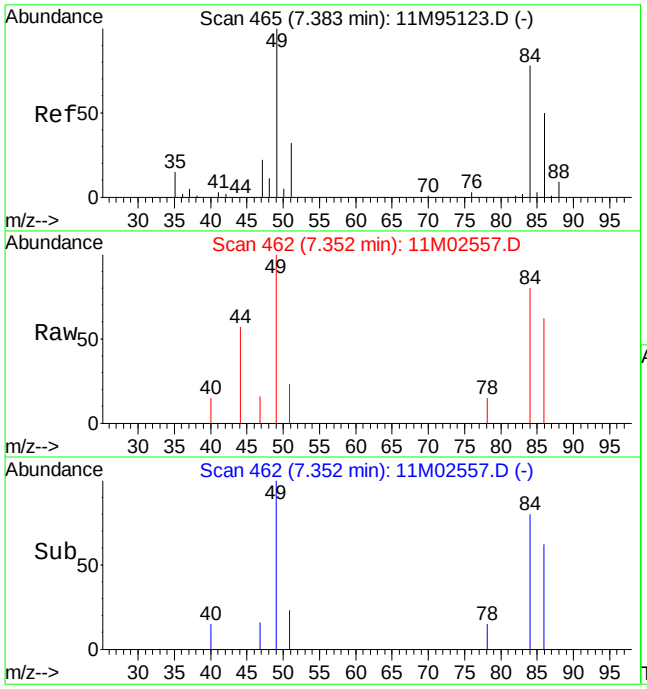


#14
1,1-Dichloroethene
Concen: 1.70 ug/L
RT: 6.60 min Scan# 389
Delta R.T. 0.00 min
Lab File: 11M02557.D
Acq: 17 Jul 2014 22:52

Tgt Ion: 61 Resp: 24429

Ion	Ratio	Lower	Upper
61	100		
96	59.7	33.5	78.1

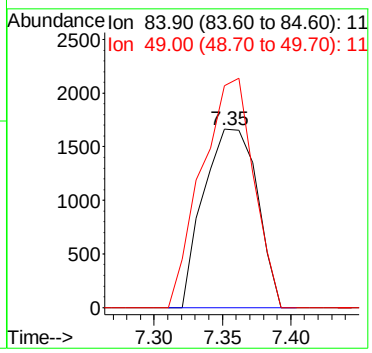


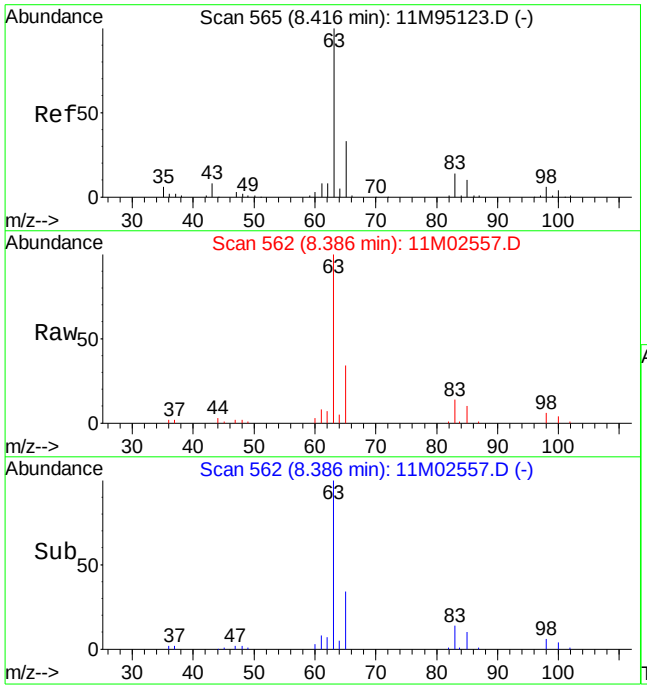


#19
Methylene Chloride
Concen: 0.43 ug/L
RT: 7.35 min Scan# 462
Delta R.T. 0.00 min
Lab File: 11M02557.D
Acq: 17 Jul 2014 22:52

Tgt Ion: 84 Resp: 4533

Ion	Ratio	Lower	Upper
84	100		
49	124.6	87.4	203.8

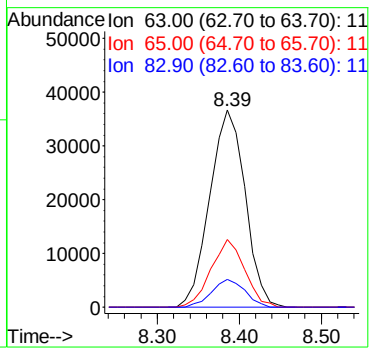


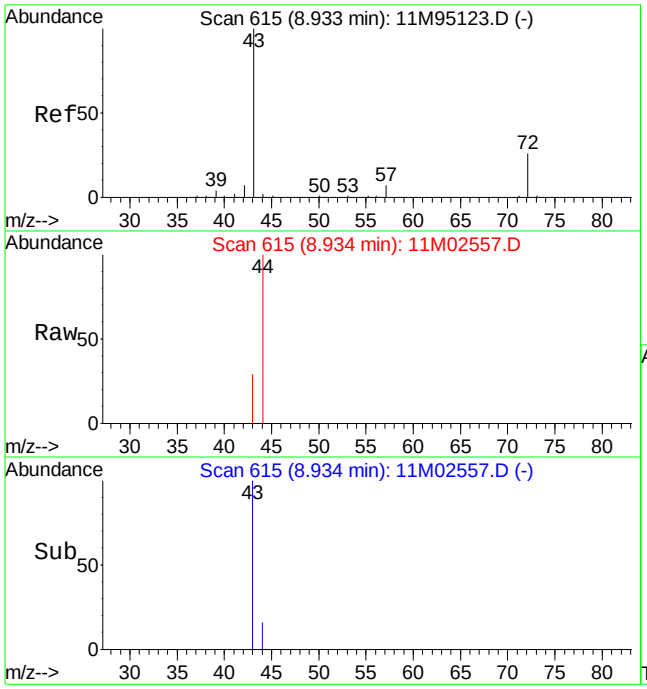


#27
1,1-Dichloroethane
Concen: 6.40 ug/L
RT: 8.39 min Scan# 562
Delta R.T. 0.00 min
Lab File: 11M02557.D
Acq: 17 Jul 2014 22:52

Tgt Ion: 63 Resp: 110099

Ion	Ratio	Lower	Upper
63	100		
65	32.7	19.3	45.1
83	13.4	7.9	18.5

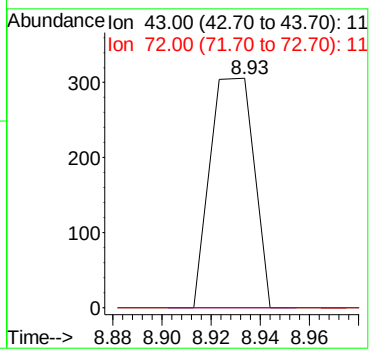


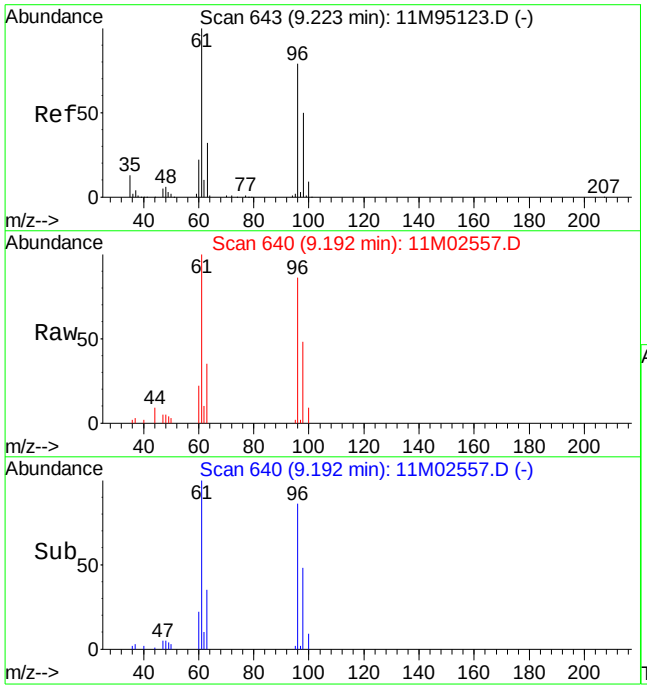


#29
2-Butanone
Concen: 0.17 ug/L
RT: 8.93 min Scan# 615
Delta R.T. 0.02 min
Lab File: 11M02557.D
Acq: 17 Jul 2014 22:52

Tgt Ion: 43 Resp: 378

Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.3	30.9#

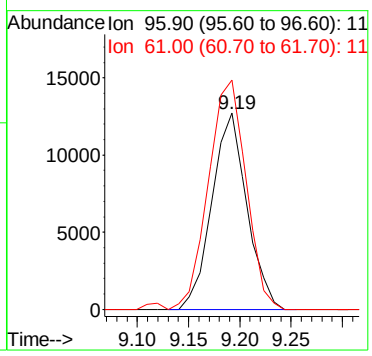


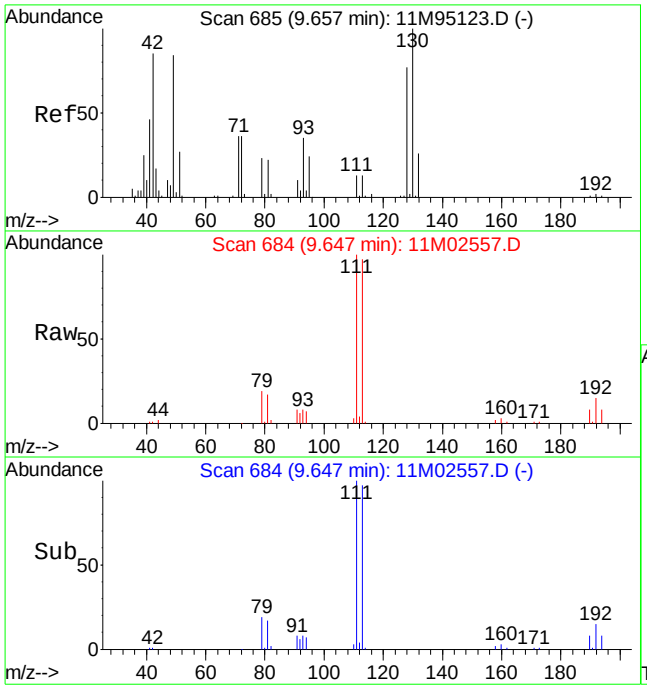


#32
cis-1,2-Dichloroethene
Concen: 2.65 ug/L
RT: 9.19 min Scan# 640
Delta R.T. 0.00 min
Lab File: 11M02557.D
Acq: 17 Jul 2014 22:52

Tgt Ion: 96 Resp: 30209

Ion	Ratio	Lower	Upper
96	100		
61	126.9	97.1	226.7

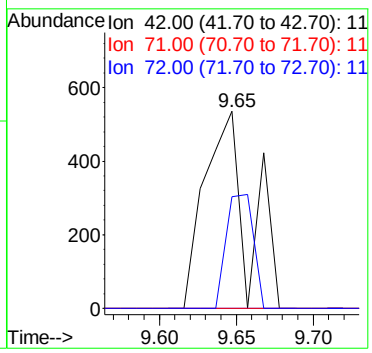


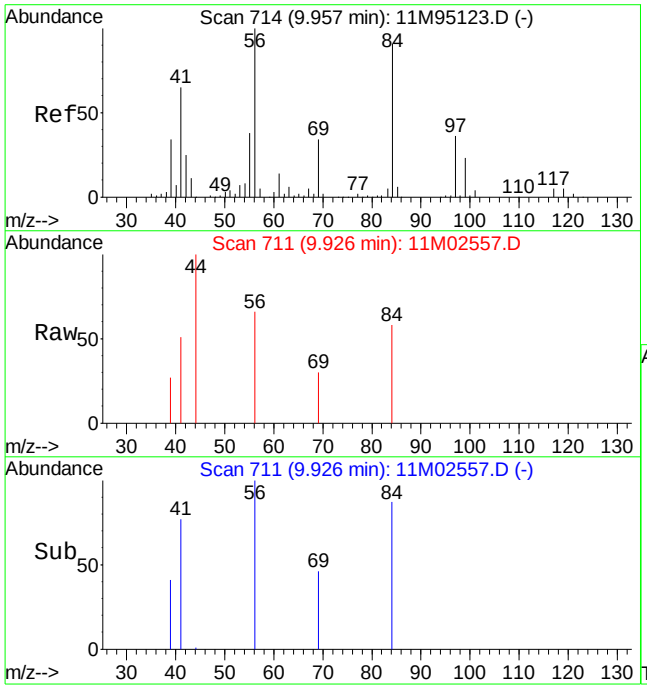


#36
Tetrahydrofuran
Concen: 0.72 ug/L
RT: 9.65 min Scan# 684
Delta R.T. 0.01 min
Lab File: 11M02557.D
Acq: 17 Jul 2014 22:52

Tgt Ion: 42 Resp: 1064

Ion	Ratio	Lower	Upper
42	100		
71	0.0	22.4	52.2#
72	35.7	23.8	55.4

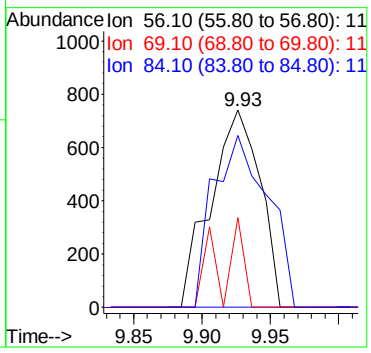




#39
Cyclohexane
Concen: 0.12 ug/L
RT: 9.93 min Scan# 711
Delta R.T. 0.00 min
Lab File: 11M02557.D
Acq: 17 Jul 2014 22:52

Tgt Ion: 56 Resp: 1852

Ion	Ratio	Lower	Upper
56	100		
69	21.5	17.0	39.6
84	96.5	48.1	112.1



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02558.D Vial: 17
Acq On : 17 Jul 2014 23:24 Operator: ADC
Sample : L14070607-09 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 09:57:17 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	805209	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	659344	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.09	152	325866	25.00 ug/L	-0.01

System Monitoring Compounds

37) Dibromofluoromethane	9.67	111	241078	23.9739 ug/L	0.01
Spiked Amount 25.000	Range 86 - 118		Recovery = 95.88%		
43) 1,2-Dichloroethane-d4	10.27	65	243689	24.8333 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 99.32%		
57) Toluene-d8	12.51	98	888614	23.0040 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 92.00%		
78) p-Bromofluorobenzene	15.68	95	329961	23.4199 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 93.68%		

Target Compounds

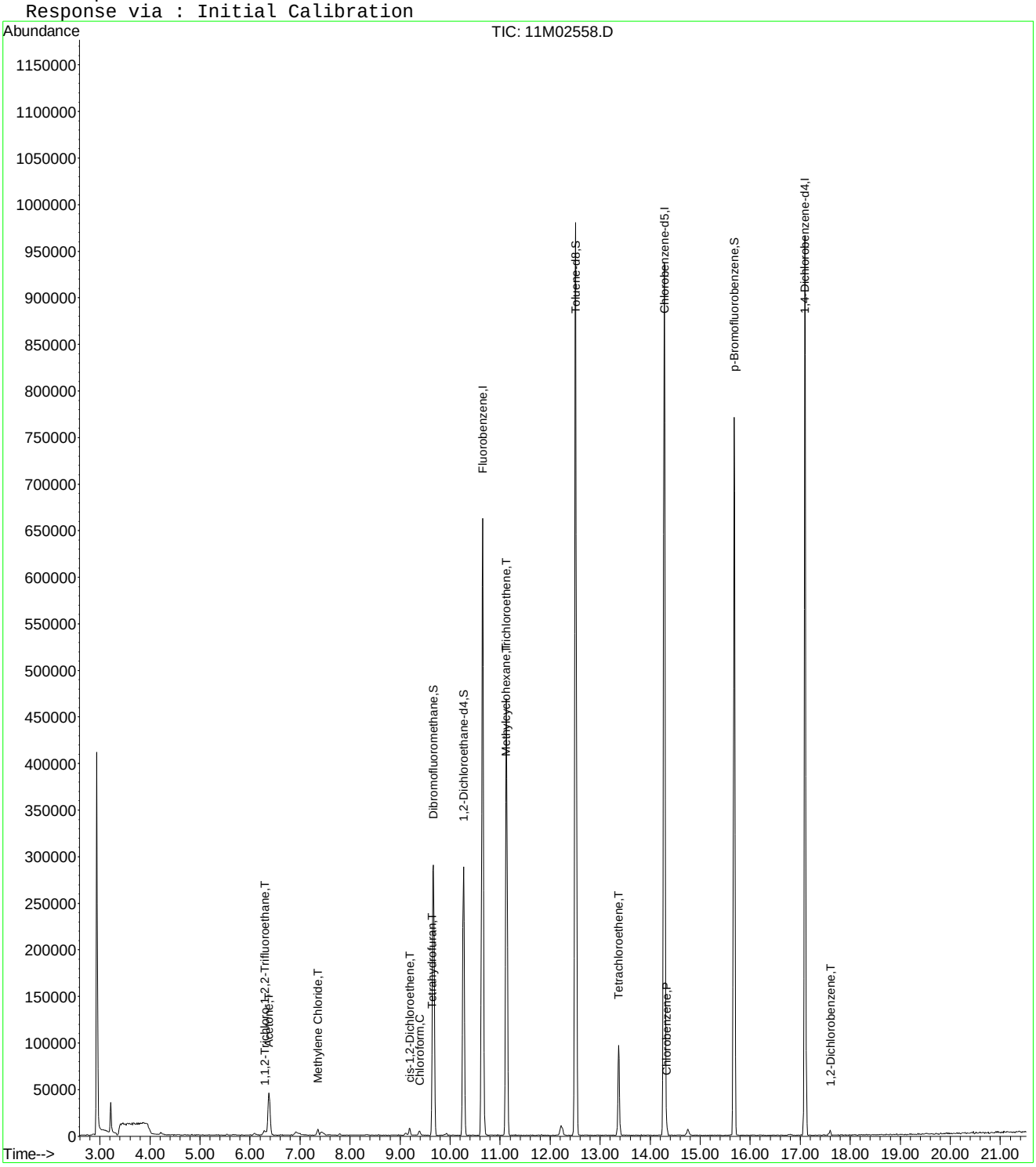
					Qvalue
12) 1,1,2-Trichloro-1,2,2-Trif	6.30	101	5728	0.5749 ug/L	92
13) Acetone	6.38	43	87793	53.9932 ug/L	97
19) Methylene Chloride	7.35	84	4175	0.3825 ug/L	86
32) cis-1,2-Dichloroethene	9.19	96	4818	0.4117 ug/L	72
33) Chloroform	9.39	83	5687	0.3141 ug/L	96
36) Tetrahydrofuran	9.64	42	965	0.6373 ug/L #	58
46) Trichloroethene	11.13	130	207433	17.1821 ug/L	95
47) Methylcyclohexane	11.12	83	2352	0.1476 ug/L #	1
64) Tetrachloroethene	13.37	164	30052	2.9971 ug/L	98
68) Chlorobenzene	14.33	112	10954	0.3430 ug/L	95
94) 1,2-Dichlorobenzene	17.61	146	3886	0.1782 ug/L	95

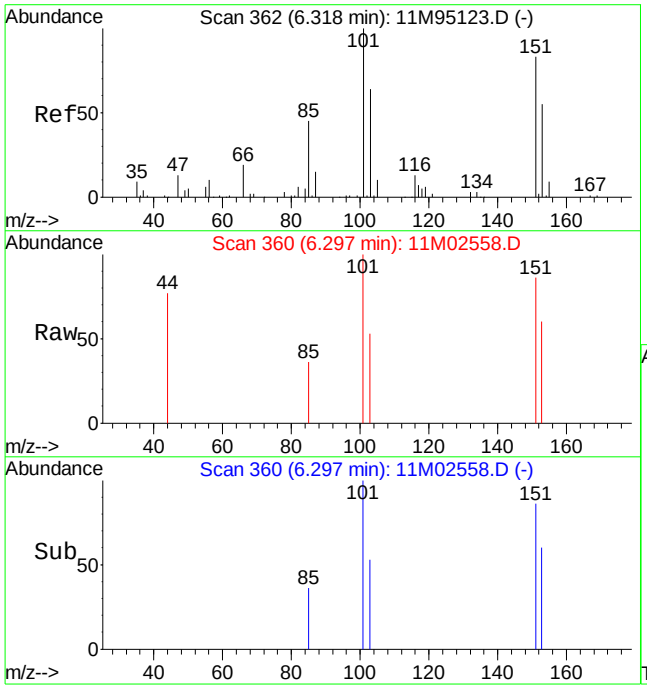
(#) = qualifier out of range (m) = manual integration
11M02558.D 8260WTR.M Tue Jul 22 09:57:18 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02558.D Vial: 17
Acq On : 17 Jul 2014 23:24 Operator: ADC
Sample : L14070607-09 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 9:57 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration

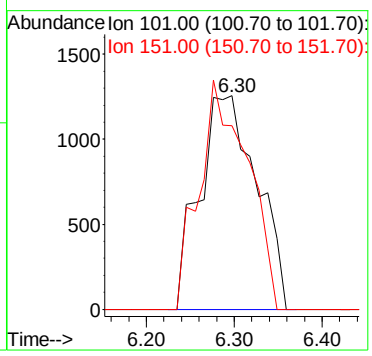


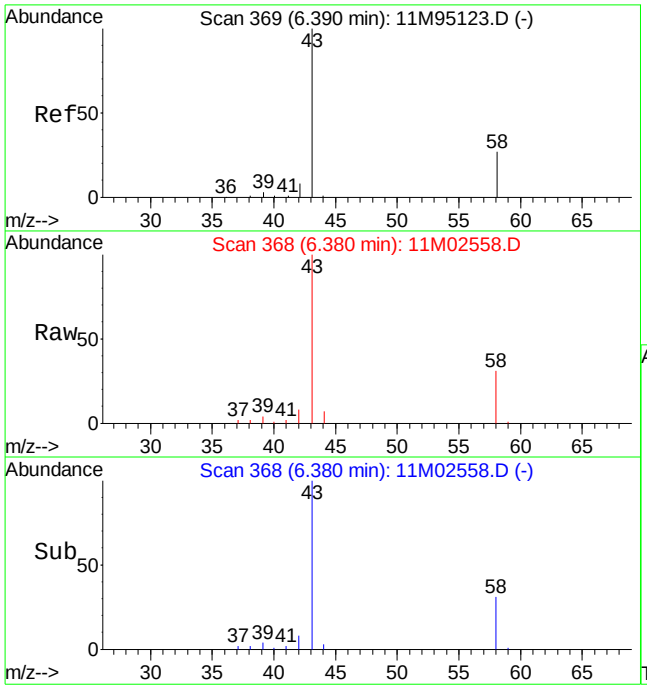


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 0.57 ug/L
RT: 6.30 min Scan# 360
Delta R.T. 0.01 min
Lab File: 11M02558.D
Acq: 17 Jul 2014 23:24

Tgt Ion:101 Resp: 5728

Ion	Ratio	Lower	Upper
101	100		
151	90.3	43.3	123.3

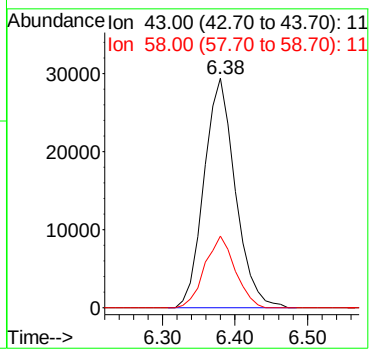


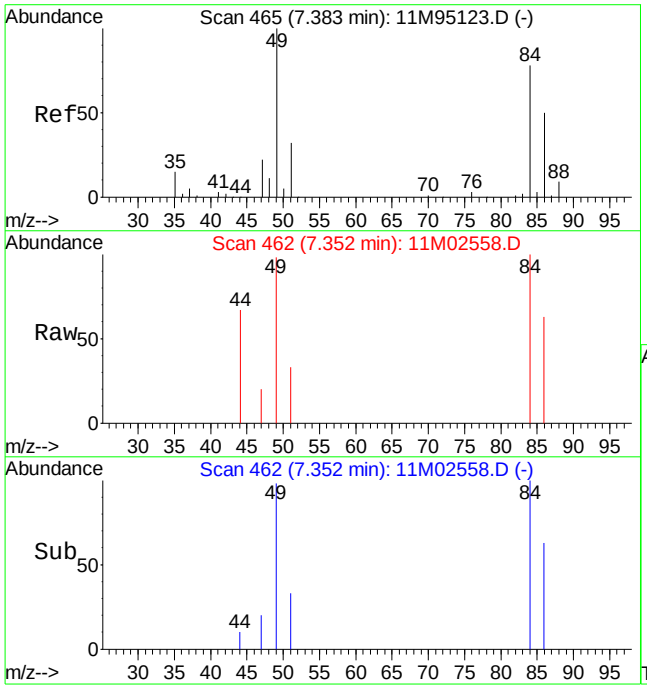


#13
Acetone
Concen: 53.99 ug/L
RT: 6.38 min Scan# 368
Delta R.T. 0.00 min
Lab File: 11M02558.D
Acq: 17 Jul 2014 23:24

Tgt Ion: 43 Resp: 87793

Ion	Ratio	Lower	Upper
43	100		
58	30.0	17.2	40.0

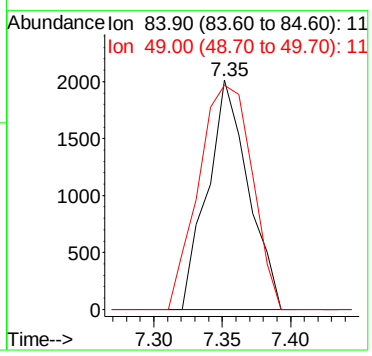


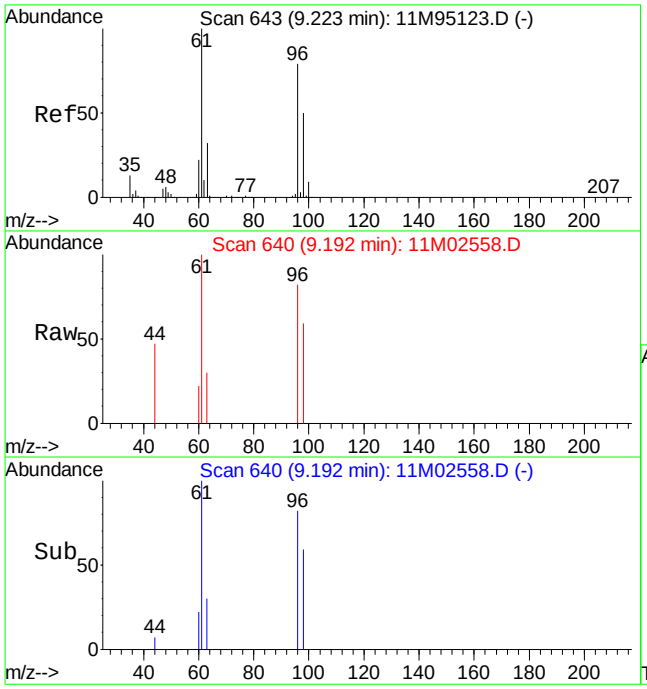


#19
Methylene Chloride
Concen: 0.38 ug/L
RT: 7.35 min Scan# 462
Delta R.T. 0.00 min
Lab File: 11M02558.D
Acq: 17 Jul 2014 23:24

Tgt Ion: 84 Resp: 4175

Ion	Ratio	Lower	Upper
84	100		
49	128.7	87.4	203.8

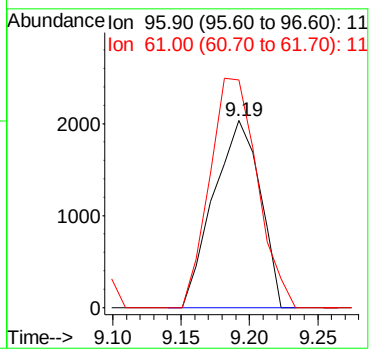


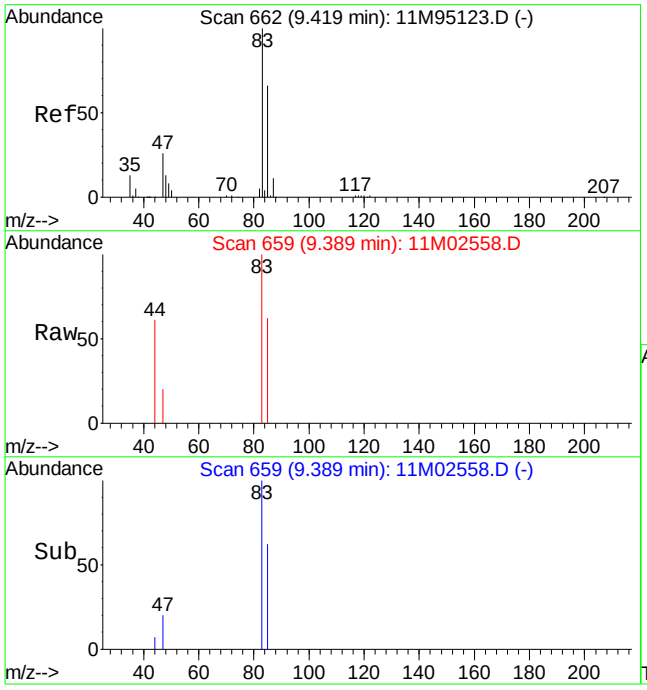


#32
cis-1,2-Dichloroethene
Concen: 0.41 ug/L
RT: 9.19 min Scan# 640
Delta R.T. 0.00 min
Lab File: 11M02558.D
Acq: 17 Jul 2014 23:24

Tgt Ion: 96 Resp: 4818

Ion	Ratio	Lower	Upper
96	100		
61	125.2	97.1	226.7

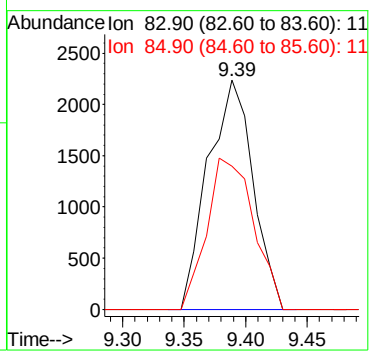


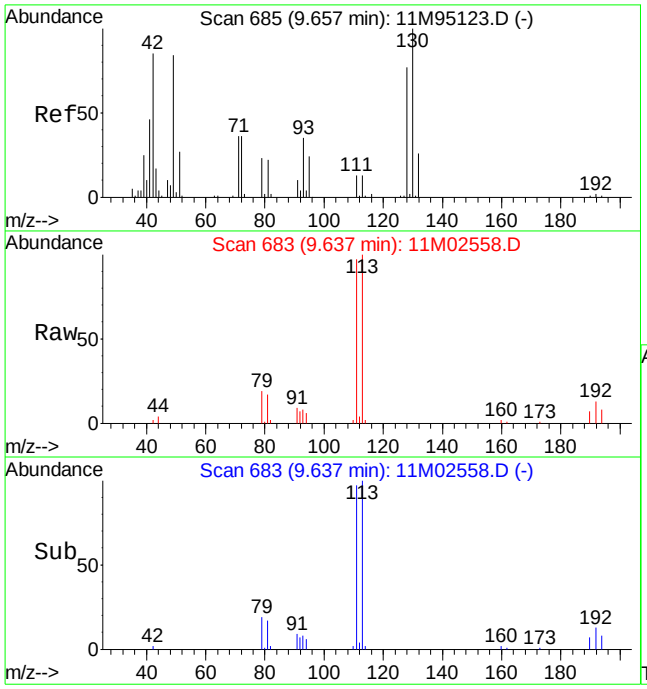


#33
Chloroform
Concen: 0.31 ug/L
RT: 9.39 min Scan# 659
Delta R.T. 0.00 min
Lab File: 11M02558.D
Acq: 17 Jul 2014 23:24

Tgt Ion: 83 Resp: 5687

Ion	Ratio	Lower	Upper
83	100		
85	68.6	39.2	91.6

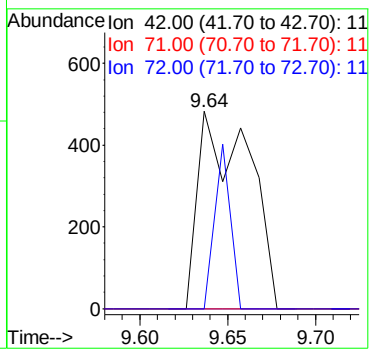


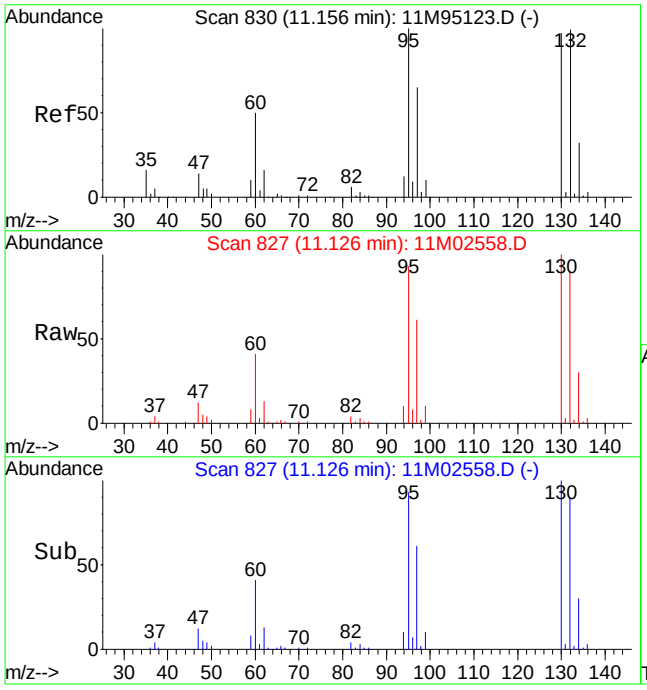


#36
Tetrahydrofuran
Concen: 0.64 ug/L
RT: 9.64 min Scan# 683
Delta R.T. 0.00 min
Lab File: 11M02558.D
Acq: 17 Jul 2014 23:24

Tgt Ion: 42 Resp: 965

Ion	Ratio	Lower	Upper
42	100		
71	0.0	22.4	52.2#
72	25.9	23.8	55.4

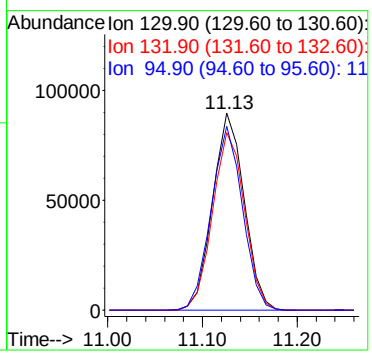


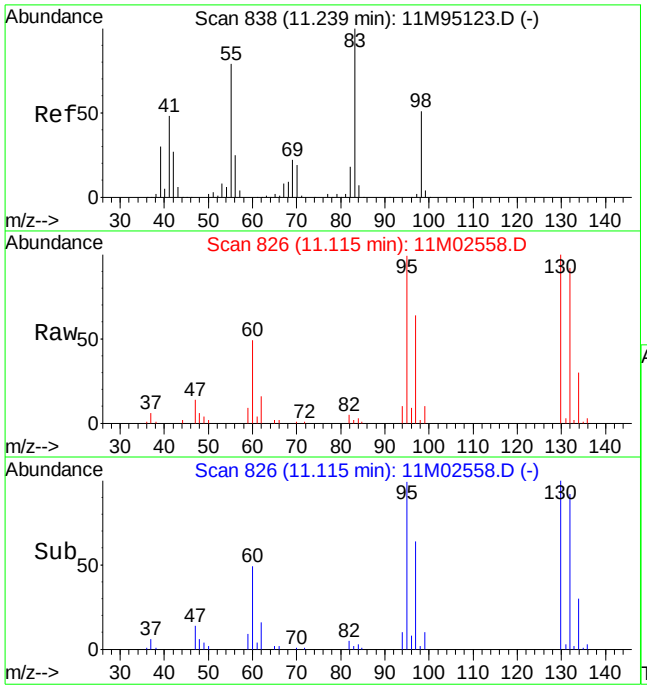


#46
Trichloroethene
Concen: 17.18 ug/L
RT: 11.13 min Scan# 827
Delta R.T. 0.00 min
Lab File: 11M02558.D
Acq: 17 Jul 2014 23:24

Tgt Ion:130 Resp: 207433

Ion	Ratio	Lower	Upper
130	100		
132	91.3	58.0	135.4
95	92.7	58.3	135.9

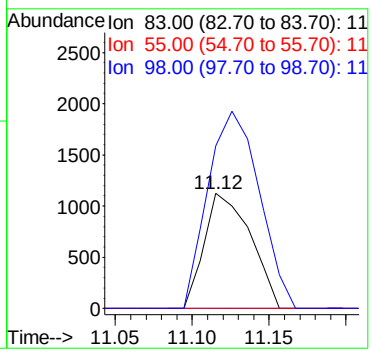


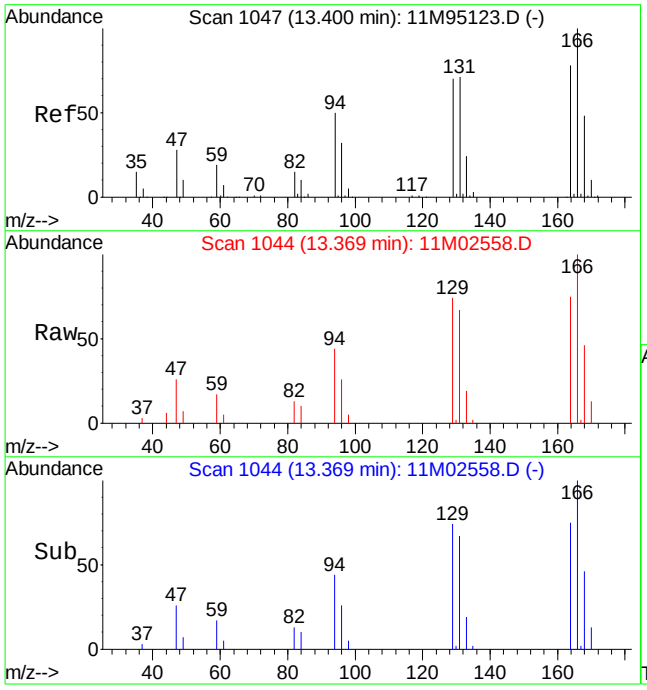


#47
Methylcyclohexane
Concen: 0.15 ug/L
RT: 11.12 min Scan# 826
Delta R.T. -0.09 min
Lab File: 11M02558.D
Acq: 17 Jul 2014 23:24

Tgt Ion: 83 Resp: 2352

Ion	Ratio	Lower	Upper
83	100		
55	0.0	50.5	117.9#
98	190.9	28.1	65.5#

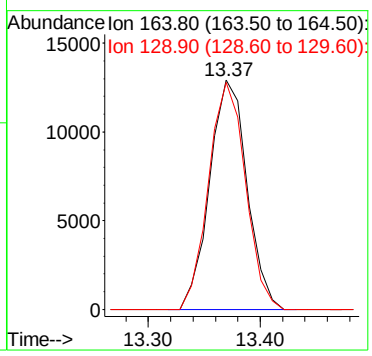


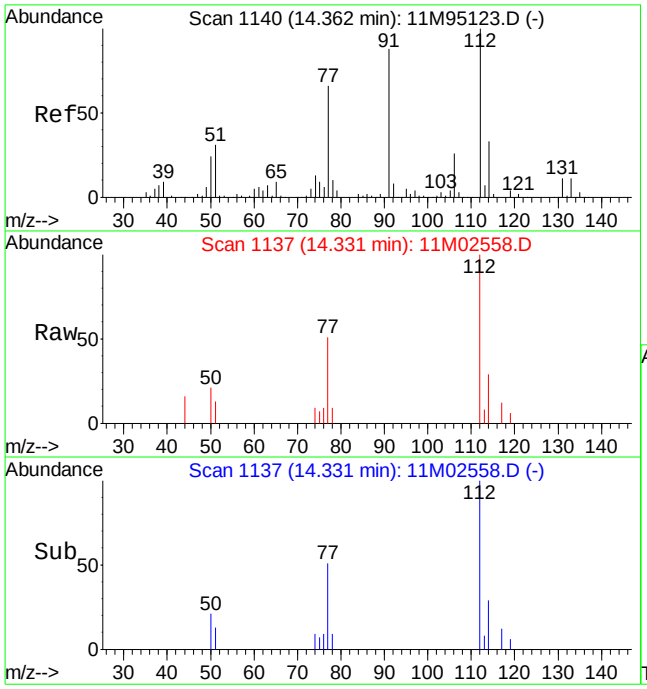


#64
Tetrachloroethene
Concen: 3.00 ug/L
RT: 13.37 min Scan# 1044
Delta R.T. 0.00 min
Lab File: 11M02558.D
Acq: 17 Jul 2014 23:24

Tgt Ion:164 Resp: 30052

Ion	Ratio	Lower	Upper
164	100		
129	97.5	59.7	139.3

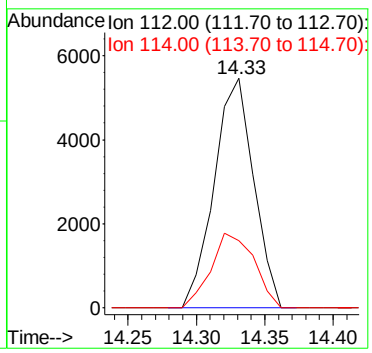


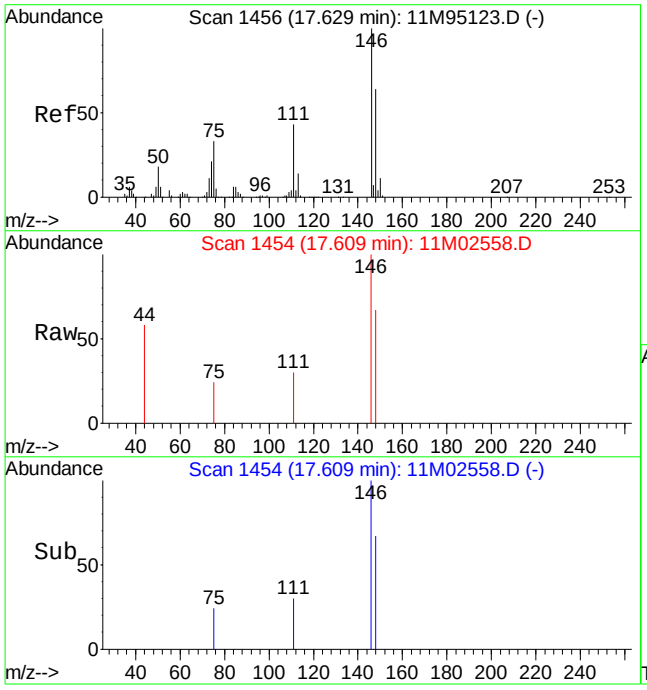


#68
Chlorobenzene
Concen: 0.34 ug/L
RT: 14.33 min Scan# 1137
Delta R.T. 0.00 min
Lab File: 11M02558.D
Acq: 17 Jul 2014 23:24

Tgt Ion:112 Resp: 10954

Ion	Ratio	Lower	Upper
112	100		
114	35.2	19.5	45.5

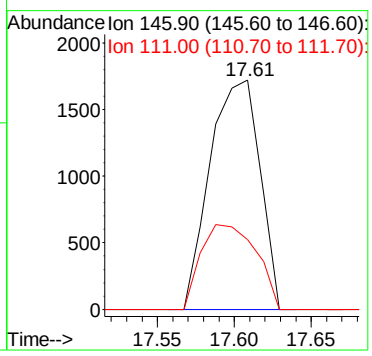




#94
1,2-Dichlorobenzene
Concen: 0.18 ug/L
RT: 17.61 min Scan# 1454
Delta R.T. 0.01 min
Lab File: 11M02558.D
Acq: 17 Jul 2014 23:24

Tgt Ion:146 Resp: 3886

Ion	Ratio	Lower	Upper
146	100		
111	40.9	26.5	61.7



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02559.D Vial: 18
Acq On : 17 Jul 2014 23:56 Operator: ADC
Sample : L14070607-10 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 09:57:20 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	787479	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	646532	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.09	152	316007	25.00 ug/L	-0.01

System Monitoring Compounds

37) Dibromofluoromethane	9.67	111	241885	24.5957 ug/L	0.01
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.40%		
43) 1,2-Dichloroethane-d4	10.27	65	237713	24.7697 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 99.08%		
57) Toluene-d8	12.51	98	877344	23.1623 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 92.64%		
78) p-Bromofluorobenzene	15.67	95	322934	23.6363 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 94.56%		

Target Compounds

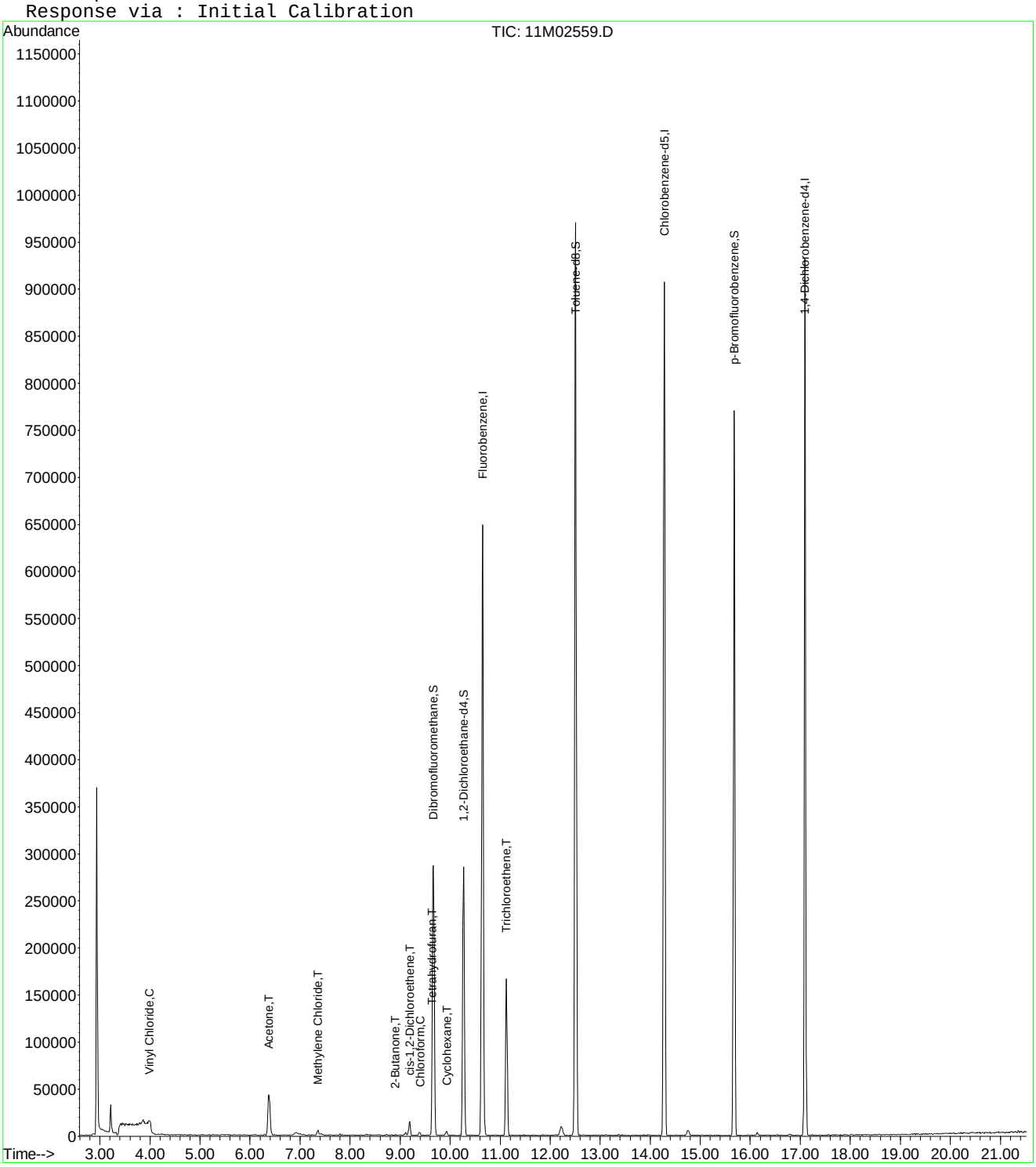
					Qvalue
4) Vinyl Chloride	3.98	62	2697	0.2011 ug/L #	76
13) Acetone	6.38	43	85379	53.6908 ug/L	96
19) Methylene Chloride	7.35	84	3640	0.3410 ug/L	88
29) 2-Butanone	8.90	43	418	0.1833 ug/L #	54
32) cis-1,2-Dichloroethene	9.19	96	9309	0.8135 ug/L	71
33) Chloroform	9.40	83	3410	0.1926 ug/L	98
36) Tetrahydrofuran	9.64	42	793	0.5355 ug/L #	58
39) Cyclohexane	9.94	56	3220	0.2094 ug/L #	86
46) Trichloroethene	11.13	130	73206	6.2003 ug/L	97

(#) = qualifier out of range (m) = manual integration
11M02559.D 8260WTR.M Tue Jul 22 09:57:21 2014 Page 1

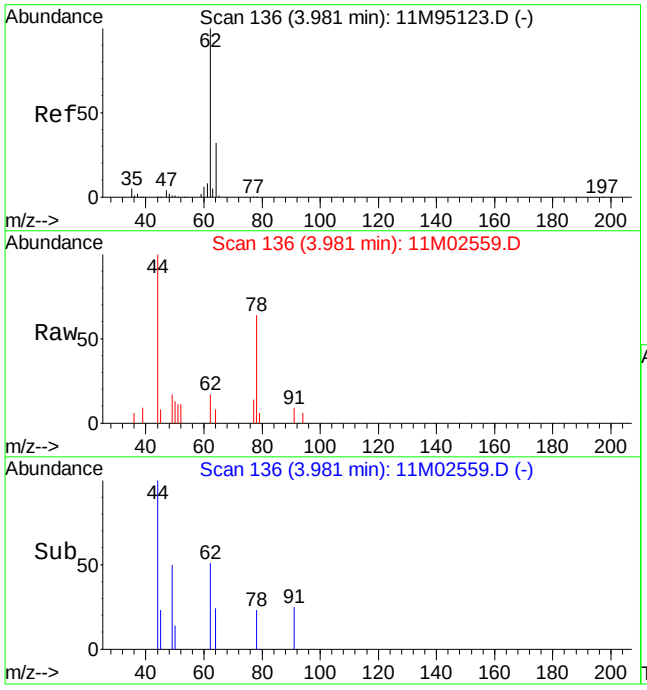
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02559.D Vial: 18
Acq On : 17 Jul 2014 23:56 Operator: ADC
Sample : L14070607-10 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 9:57 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration



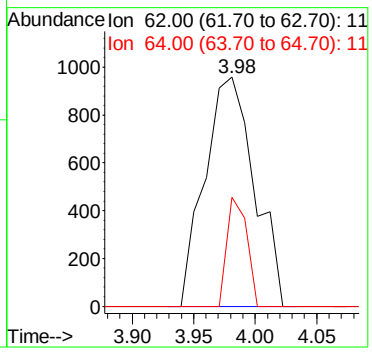
11M02559.D 8260WTR.M Tue Jul 22 09:57:22 2014 Page 2

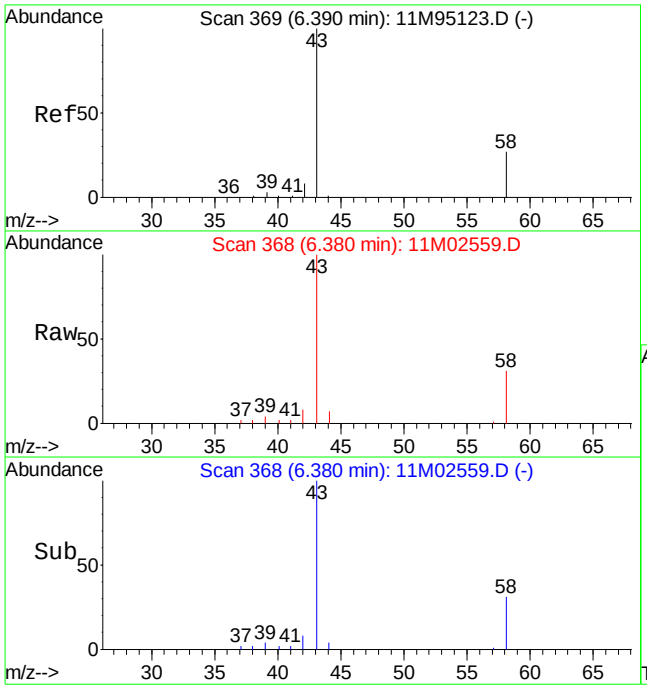


#4
Vinyl Chloride
Concen: 0.20 ug/L
RT: 3.98 min Scan# 136
Delta R.T. 0.00 min
Lab File: 11M02559.D
Acq: 17 Jul 2014 23:56

Tgt Ion: 62 Resp: 2697

Ion	Ratio	Lower	Upper
62	100		
64	19.0	19.3	45.1#

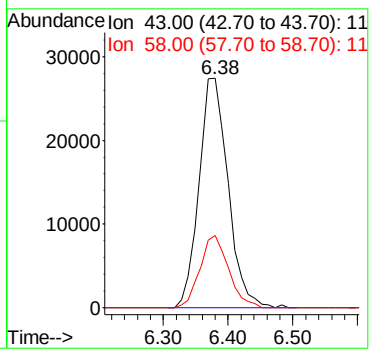


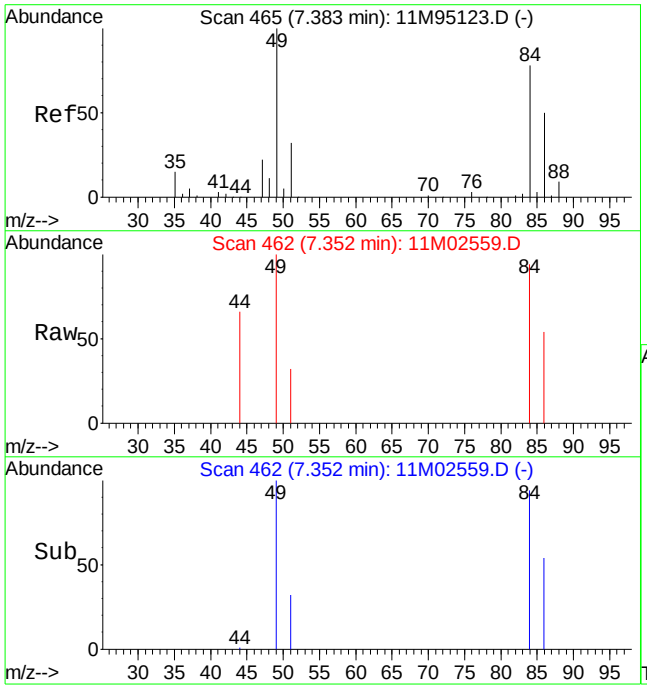


#13
Acetone
Concen: 53.69 ug/L
RT: 6.38 min Scan# 368
Delta R.T. 0.00 min
Lab File: 11M02559.D
Acq: 17 Jul 2014 23:56

Tgt Ion: 43 Resp: 85379

Ion	Ratio	Lower	Upper
43	100		
58	30.8	17.2	40.0

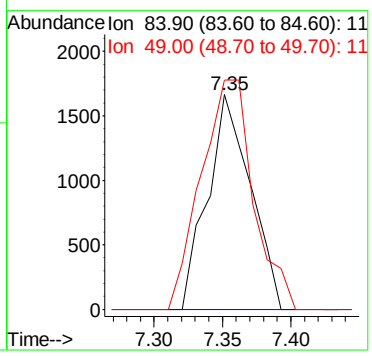


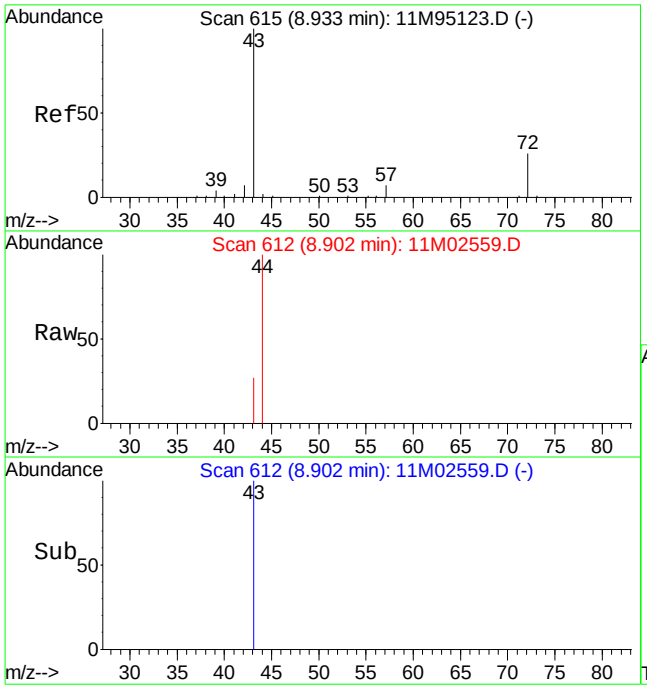


#19
Methylene Chloride
Concen: 0.34 ug/L
RT: 7.35 min Scan# 462
Delta R.T. 0.00 min
Lab File: 11M02559.D
Acq: 17 Jul 2014 23:56

Tgt Ion: 84 Resp: 3640

Ion	Ratio	Lower	Upper
84	100		
49	130.2	87.4	203.8

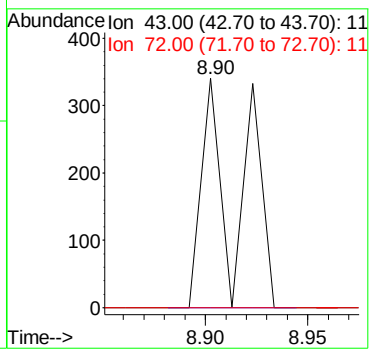


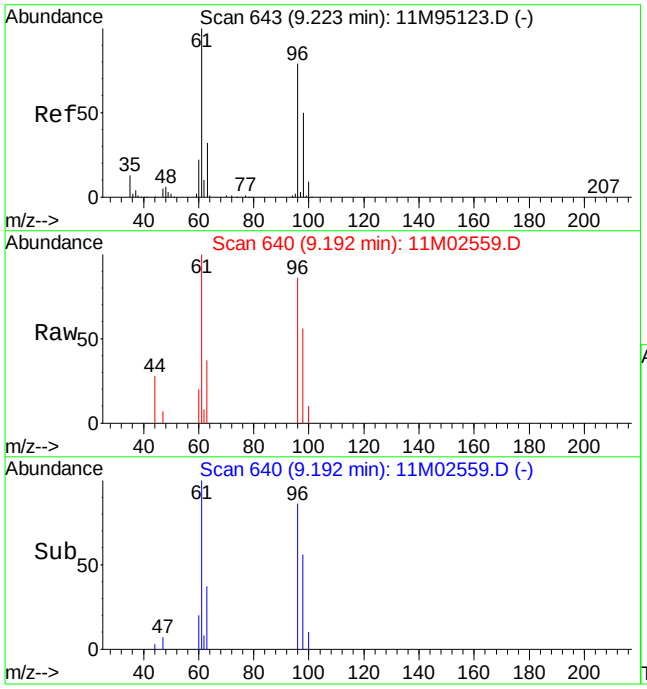


#29
2-Butanone
Concen: 0.18 ug/L
RT: 8.90 min Scan# 612
Delta R.T. -0.01 min
Lab File: 11M02559.D
Acq: 17 Jul 2014 23:56

Tgt Ion: 43 Resp: 418

Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.3	30.9#

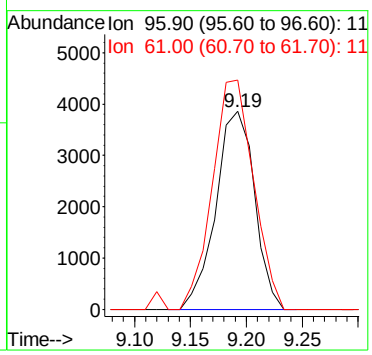


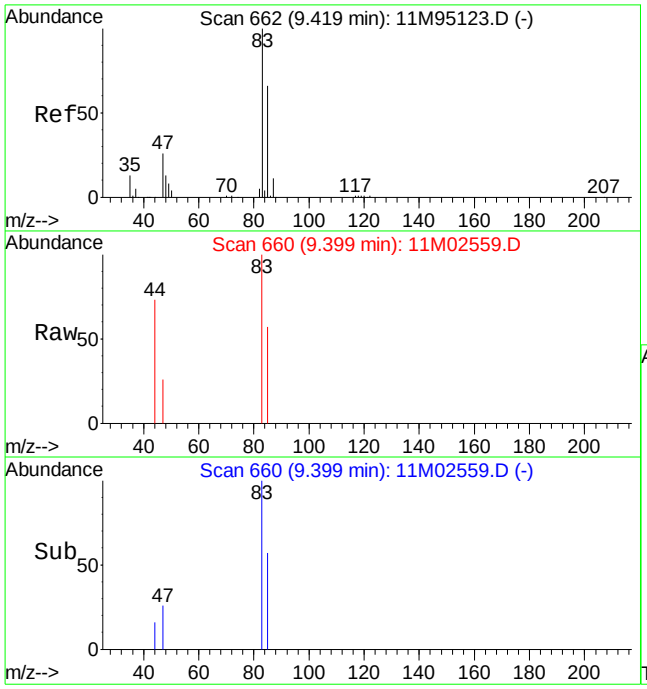


#32
cis-1,2-Dichloroethene
Concen: 0.81 ug/L
RT: 9.19 min Scan# 640
Delta R.T. 0.00 min
Lab File: 11M02559.D
Acq: 17 Jul 2014 23:56

Tgt Ion: 96 Resp: 9309

Ion	Ratio	Lower	Upper
96	100		
61	122.9	97.1	226.7

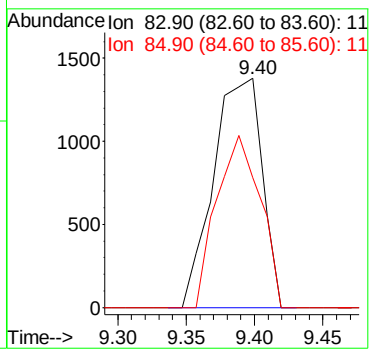


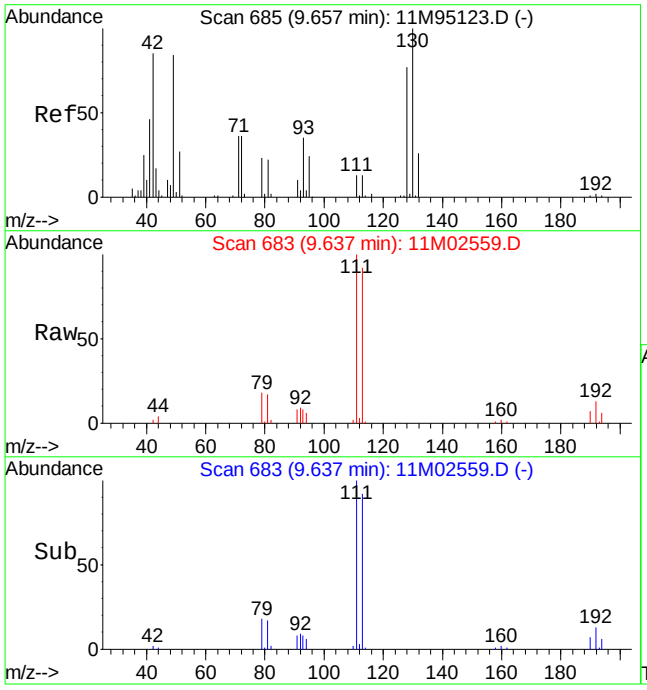


#33
Chloroform
Concen: 0.19 ug/L
RT: 9.40 min Scan# 660
Delta R.T. 0.01 min
Lab File: 11M02559.D
Acq: 17 Jul 2014 23:56

Tgt Ion: 83 Resp: 3410

Ion	Ratio	Lower	Upper
83	100		
85	67.3	39.2	91.6

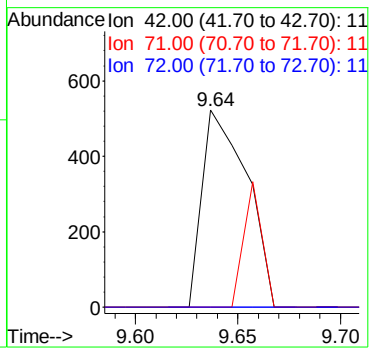


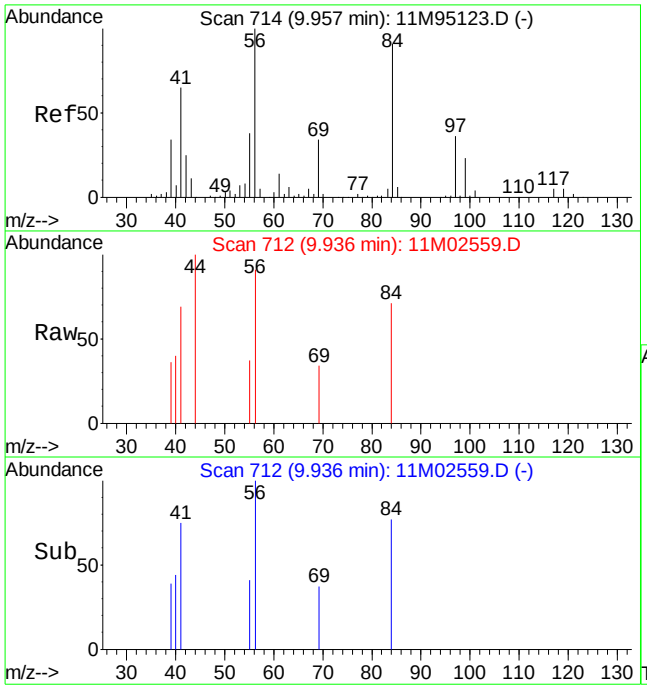


#36
Tetrahydrofuran
Concen: 0.54 ug/L
RT: 9.64 min Scan# 683
Delta R.T. 0.00 min
Lab File: 11M02559.D
Acq: 17 Jul 2014 23:56

Tgt Ion: 42 Resp: 793

Ion	Ratio	Lower	Upper
42	100		
71	26.1	22.4	52.2
72	0.0	23.8	55.4#

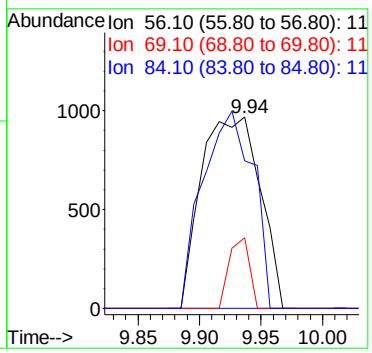


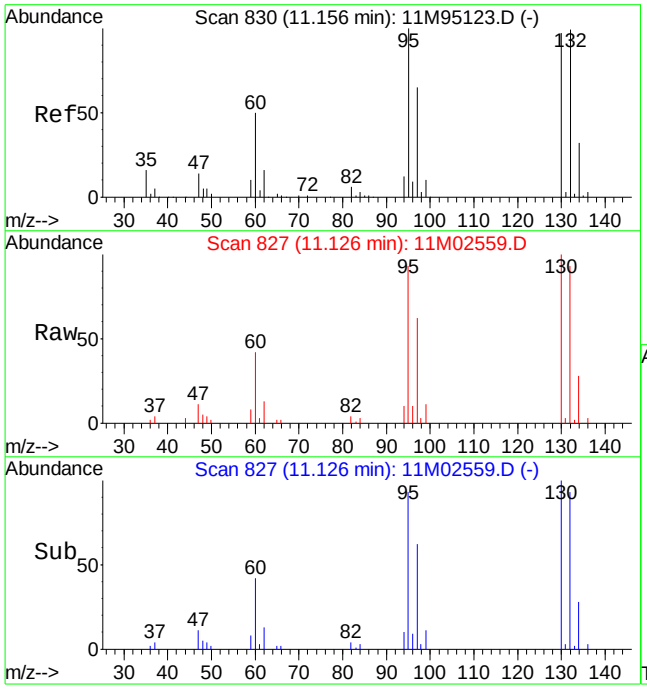


#39
Cyclohexane
Concen: 0.21 ug/L
RT: 9.94 min Scan# 712
Delta R.T. 0.01 min
Lab File: 11M02559.D
Acq: 17 Jul 2014 23:56

Tgt Ion: 56 Resp: 3220

Ion	Ratio	Lower	Upper
56	100		
69	12.8	17.0	39.6#
84	88.1	48.1	112.1

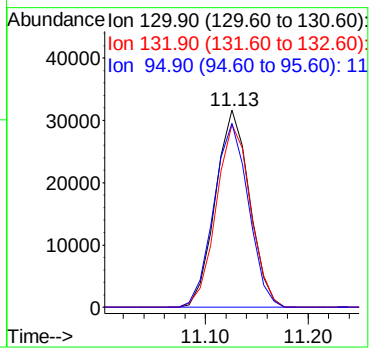




#46
Trichloroethene
Concen: 6.20 ug/L
RT: 11.13 min Scan# 827
Delta R.T. 0.00 min
Lab File: 11M02559.D
Acq: 17 Jul 2014 23:56

Tgt Ion:130 Resp: 73206

Ion	Ratio	Lower	Upper
130	100		
132	93.4	58.0	135.4
95	94.6	58.3	135.9



Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964803.D Vial: 22
Acq On : 19 Jul 2014 2:58 Operator: FJB
Sample : L14070607-11 B 826-LOW Inst : HPMS9
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 09:27:21 2014 Quant Results File: 8260WTR.RES

Quant Method : K:\ORGANICS\V...\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	820601	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	567472	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	274305	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	10.04	111	185325	21.2951 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 85.20%#		
43) 1,2-Dichloroethane-d4	10.68	65	236633	20.3305 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 81.32%		
58) Toluene-d8	13.06	98	672398	23.9832 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 95.92%		
79) p-Bromofluorobenzene	16.46	95	243893	24.6436 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.56%		

Target Compounds

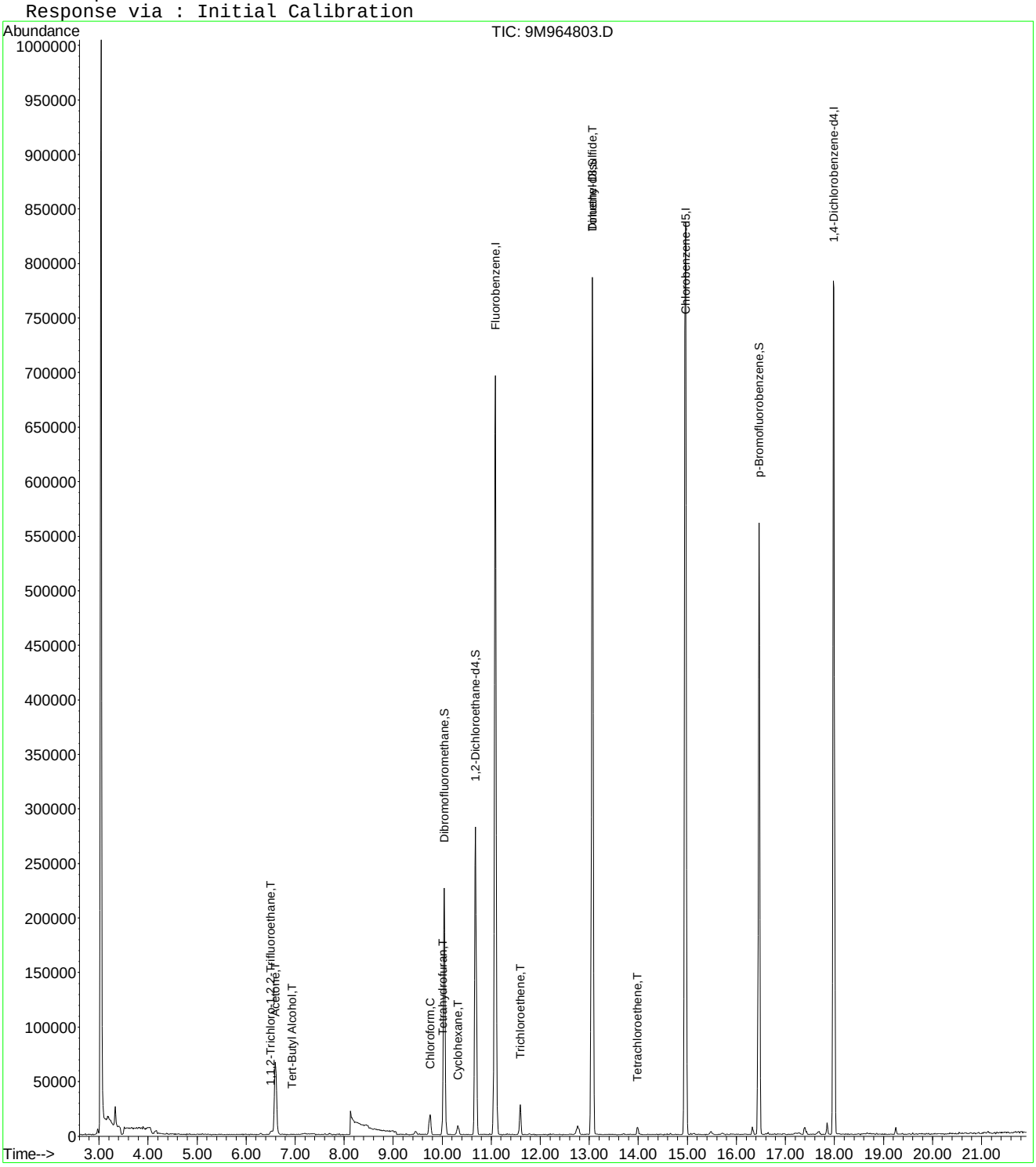
					Qvalue
12) 1,1,2-Trichloro-1,2,2-Trif	6.50	101	4508	0.6247 ug/L	79
13) Acetone	6.60	43	120958	35.0267 ug/L	92
15) Tert-Butyl Alcohol	6.94	59	433	0.3440 ug/L #	60
33) Chloroform	9.75	83	20312	1.2625 ug/L	97
36) Tetrahydrofuran	10.01	42	1069	0.2855 ug/L #	67
39) Cyclohexane	10.32	56	8207	0.3555 ug/L #	88
47) Trichloroethene	11.59	130	11392	1.1428 ug/L	99
56) Dimethyl Disulfide	13.06	94	18802	1.2120 ug/L #	28
65) Tetrachloroethene	13.98	164	2137	0.3059 ug/L	89

(#) = qualifier out of range (m) = manual integration
9M964803.D 8260WTR.M Tue Jul 22 09:27:24 2014 Page 1

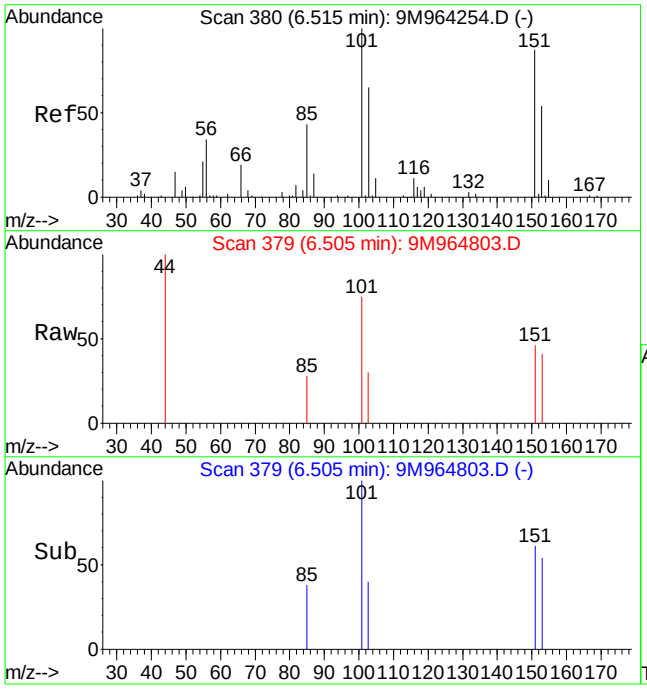
Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964803.D Vial: 22
Acq On : 19 Jul 2014 2:58 Operator: FJB
Sample : L14070607-11 B 826-LOW Inst : HPMS9
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 9:27 2014 Quant Results File: 8260WTR.RES

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



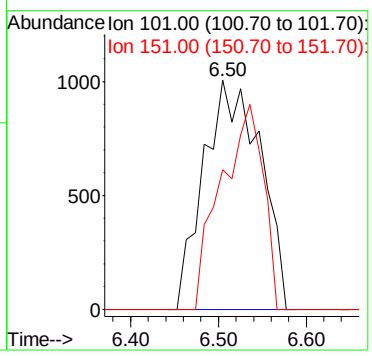
9M964803.D 8260WTR.M Tue Jul 22 09:27:24 2014 Page 2

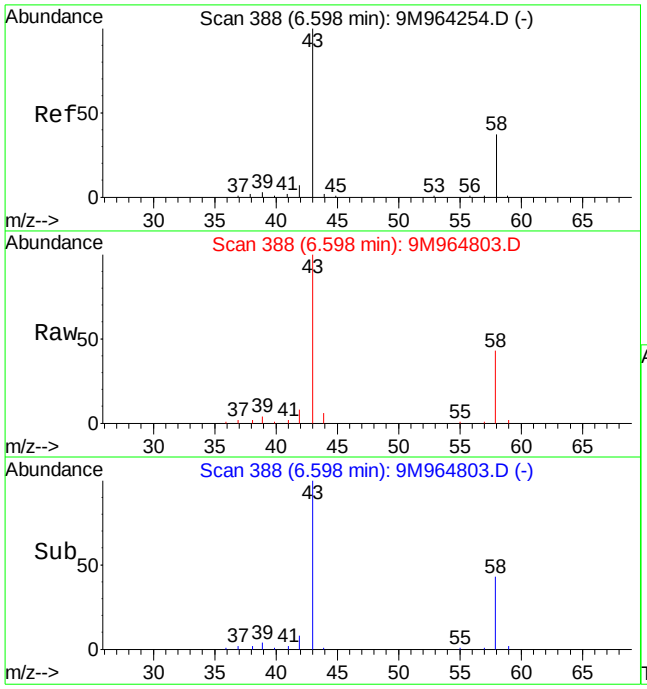


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 0.62 ug/L
RT: 6.50 min Scan# 379
Delta R.T. -0.01 min
Lab File: 9M964803.D
Acq: 19 Jul 2014 2:58

Tgt Ion:101 Resp: 4508

Ion	Ratio	Lower	Upper
101	100		
151	66.7	45.6	125.6

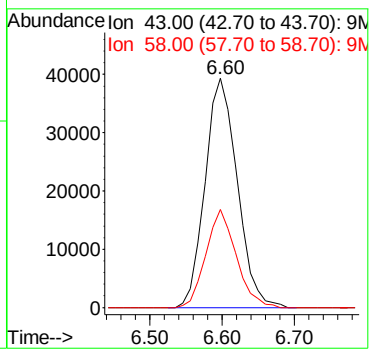


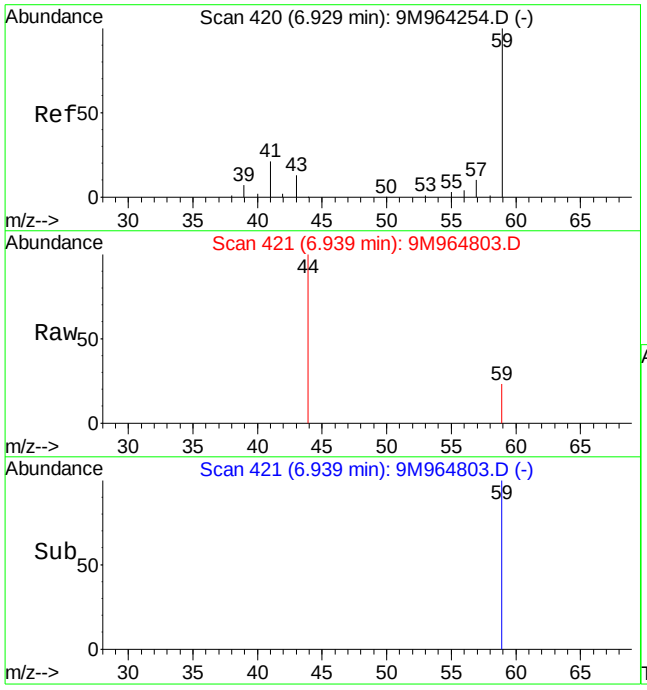


#13
Acetone
Concen: 35.03 ug/L
RT: 6.60 min Scan# 388
Delta R.T. -0.00 min
Lab File: 9M964803.D
Acq: 19 Jul 2014 2:58

Tgt Ion: 43 Resp: 120958

Ion	Ratio	Lower	Upper
43	100		
58	40.2	21.4	49.8

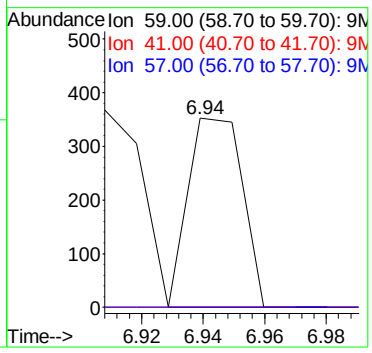


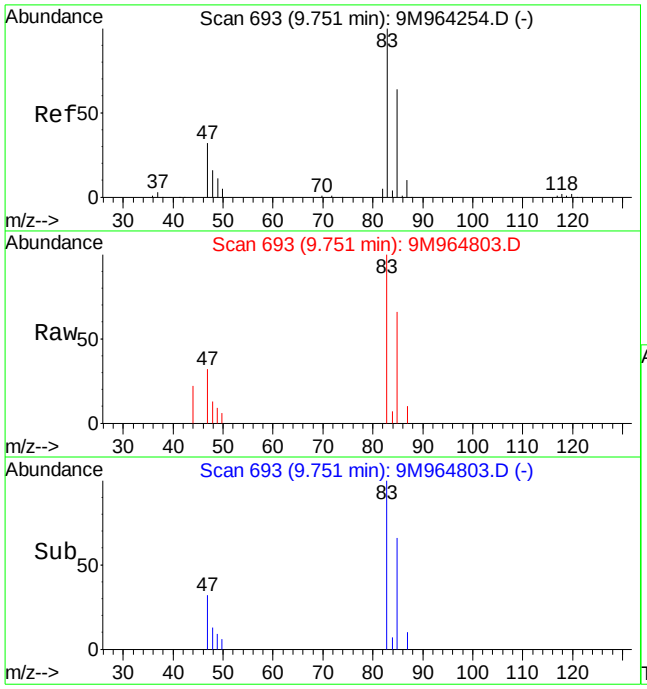


#15
Tert-Butyl Alcohol
Concen: 0.34 ug/L
RT: 6.94 min Scan# 421
Delta R.T. 0.01 min
Lab File: 9M964803.D
Acq: 19 Jul 2014 2:58

Tgt Ion: 59 Resp: 433

Ion	Ratio	Lower	Upper
59	100		
41	0.0	13.0	30.2#
57	0.0	6.1	14.3#

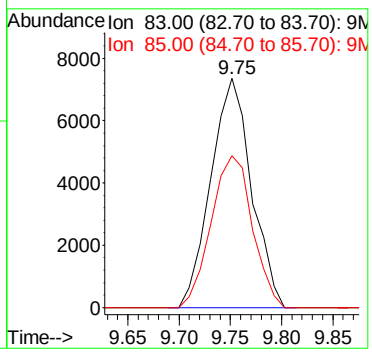


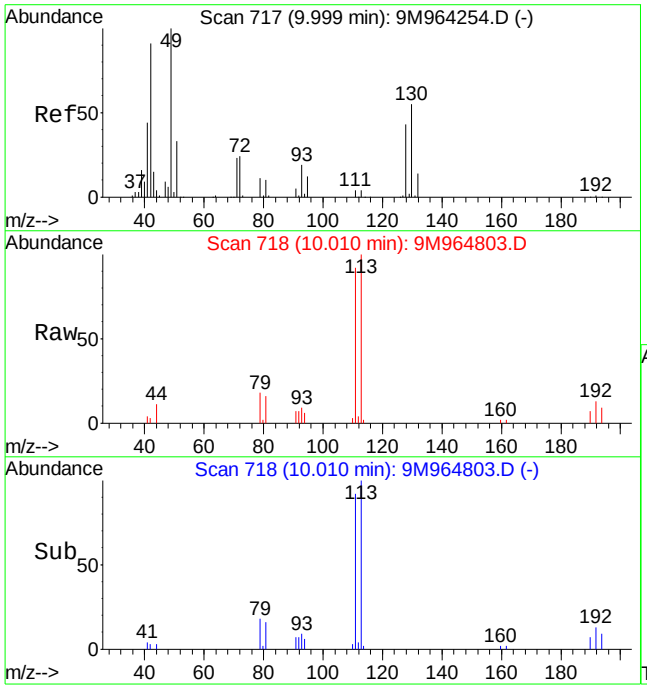


#33
Chloroform
Concen: 1.26 ug/L
RT: 9.75 min Scan# 693
Delta R.T. -0.00 min
Lab File: 9M964803.D
Acq: 19 Jul 2014 2:58

Tgt Ion: 83 Resp: 20312

Ion	Ratio	Lower	Upper
83	100		
85	66.9	38.8	90.4

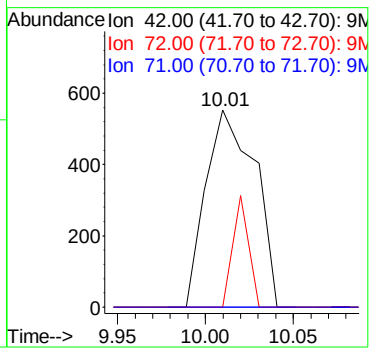


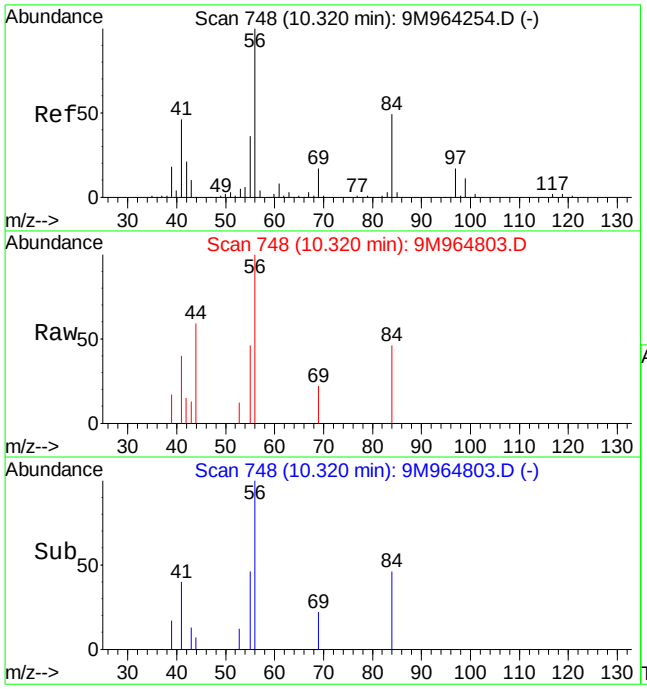


#36
Tetrahydrofuran
Concen: 0.29 ug/L
RT: 10.01 min Scan# 718
Delta R.T. 0.01 min
Lab File: 9M964803.D
Acq: 19 Jul 2014 2:58

Tgt Ion: 42 Resp: 1069

Ion	Ratio	Lower	Upper
42	100		
72	18.1	16.1	37.7
71	0.0	15.3	35.7#

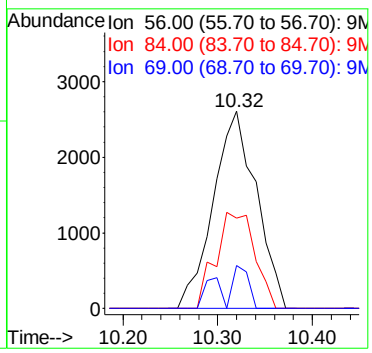


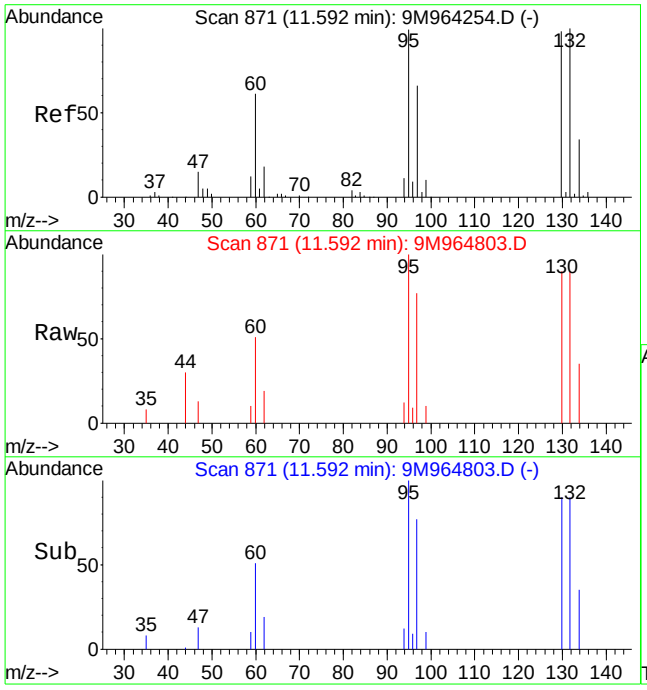


#39
Cyclohexane
Concen: 0.36 ug/L
RT: 10.32 min Scan# 748
Delta R.T. -0.00 min
Lab File: 9M964803.D
Acq: 19 Jul 2014 2:58

Tgt Ion: 56 Resp: 8207

Ion	Ratio	Lower	Upper
56	100		
84	44.2	30.2	70.4
69	7.9	10.4	24.4#

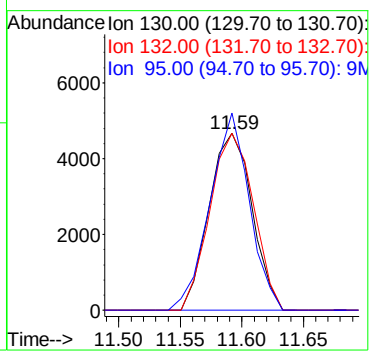


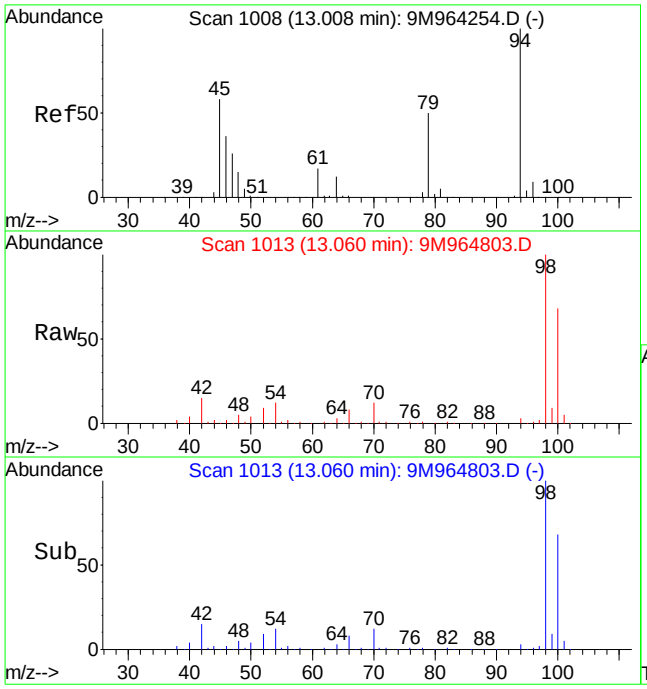


#47
Trichloroethene
Concen: 1.14 ug/L
RT: 11.59 min Scan# 871
Delta R.T. -0.00 min
Lab File: 9M964803.D
Acq: 19 Jul 2014 2:58

Tgt Ion:130 Resp: 11392

Ion	Ratio	Lower	Upper
130	100		
132	100.8	61.8	144.2
95	101.5	60.8	141.8

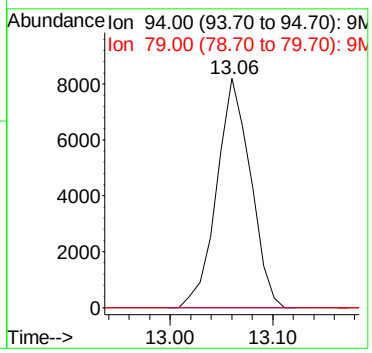


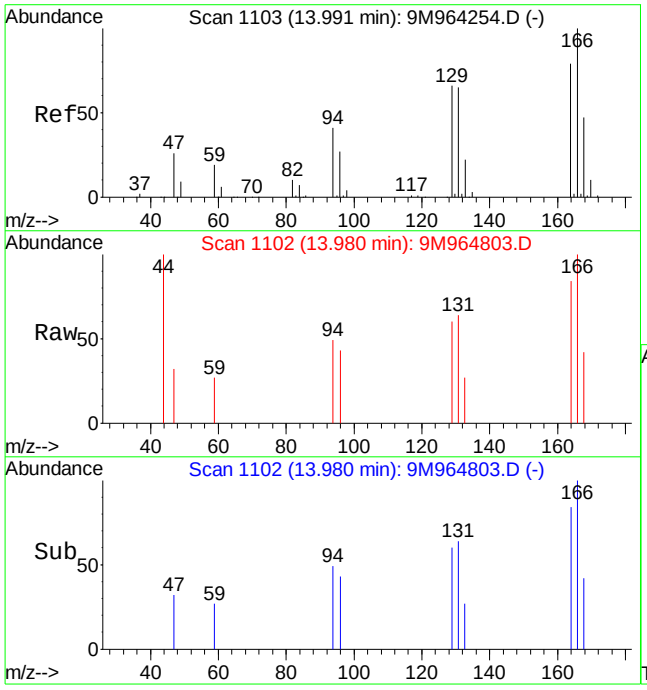


#56
Dimethyl Disulfide
Concen: 1.21 ug/L
RT: 13.06 min Scan# 1013
Delta R.T. 0.05 min
Lab File: 9M964803.D
Acq: 19 Jul 2014 2:58

Tgt Ion: 94 Resp: 18802

Ion	Ratio	Lower	Upper
94	100		
79	0.0	29.8	69.6#

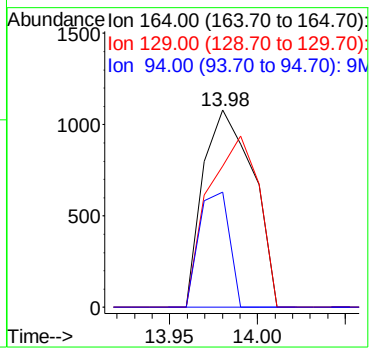




#65
Tetrachloroethene
Concen: 0.31 ug/L
RT: 13.98 min Scan# 1102
Delta R.T. -0.01 min
Lab File: 9M964803.D
Acq: 19 Jul 2014 2:58

Tgt Ion:164 Resp: 2137

Ion	Ratio	Lower	Upper
164	100		
129	87.2	51.4	120.0
94	35.2	32.2	75.2



Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964802.D Vial: 21
Acq On : 19 Jul 2014 2:29 Operator: FJB
Sample : L14070607-12 B 826-LOW Inst : HPMS9
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 09:27:13 2014 Quant Results File: 8260WTR.RES

Quant Method : K:\ORGANICS\V...\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	801728	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	552290	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	268241	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	10.04	111	185121	21.7724 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 87.08%		
43) 1,2-Dichloroethane-d4	10.68	65	235418	20.7022 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 82.80%		
58) Toluene-d8	13.06	98	682954	25.0294 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 100.12%		
79) p-Bromofluorobenzene	16.46	95	248631	25.6903 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.76%		

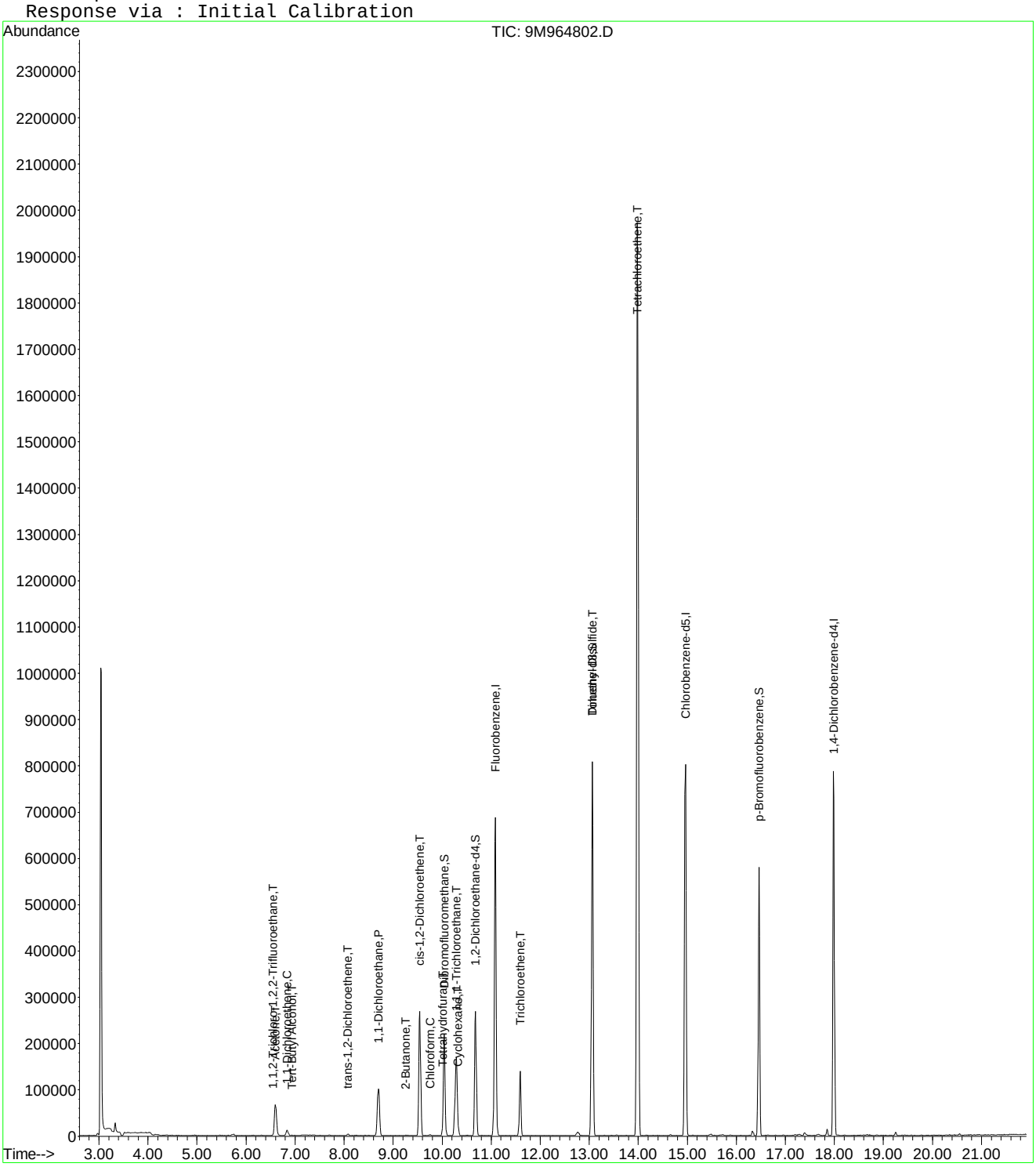
Target Compounds					Qvalue
12) 1,1,2-Trichloro-1,2,2-Trif	6.55	101	924	0.1311 ug/L	60
13) Acetone	6.60	43	122949	36.4414 ug/L	95
14) 1,1-Dichloroethene	6.84	61	14483	0.8510 ug/L	90
15) Tert-Butyl Alcohol	6.94	59	980	0.7970 ug/L #	60
23) trans-1,2-Dichloroethene	8.08	61	2485	0.1481 ug/L	82
27) 1,1-Dichloroethane	8.70	63	168373	8.0953 ug/L	99
29) 2-Butanone	9.26	43	1014	0.1874 ug/L #	63
32) cis-1,2-Dichloroethene	9.55	96	139378	14.4461 ug/L	80
33) Chloroform	9.75	83	2075	0.1320 ug/L	95
36) Tetrahydrofuran	10.01	42	1307	0.3572 ug/L #	49
38) 1,1,1-Trichloroethane	10.29	97	177843	13.1733 ug/L	98
39) Cyclohexane	10.32	56	2838	0.1258 ug/L #	1
47) Trichloroethene	11.59	130	56029	5.7530 ug/L	97
56) Dimethyl Disulfide	13.06	94	18528	1.2225 ug/L #	28
65) Tetrachloroethene	13.98	164	643047	94.5808 ug/L	98

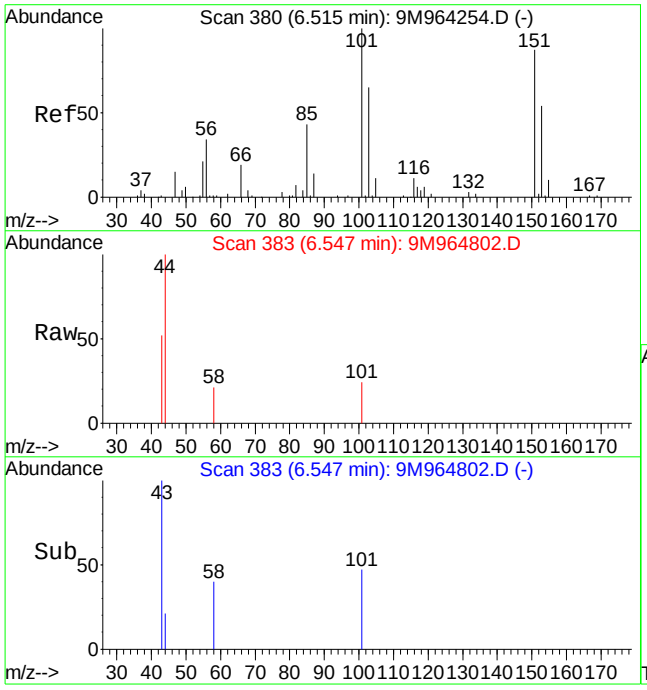
(#) = qualifier out of range (m) = manual integration
9M964802.D 8260WTR.M Tue Jul 22 09:27:16 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964802.D Vial: 21
Acq On : 19 Jul 2014 2:29 Operator: FJB
Sample : L14070607-12 B 826-LOW Inst : HPMS9
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 9:27 2014 Quant Results File: 8260WTR.RES

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration

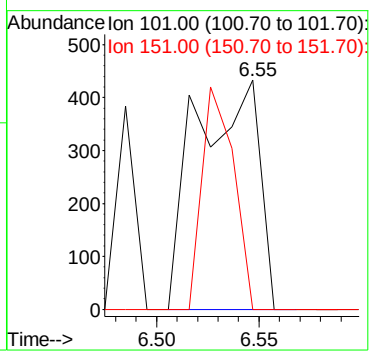


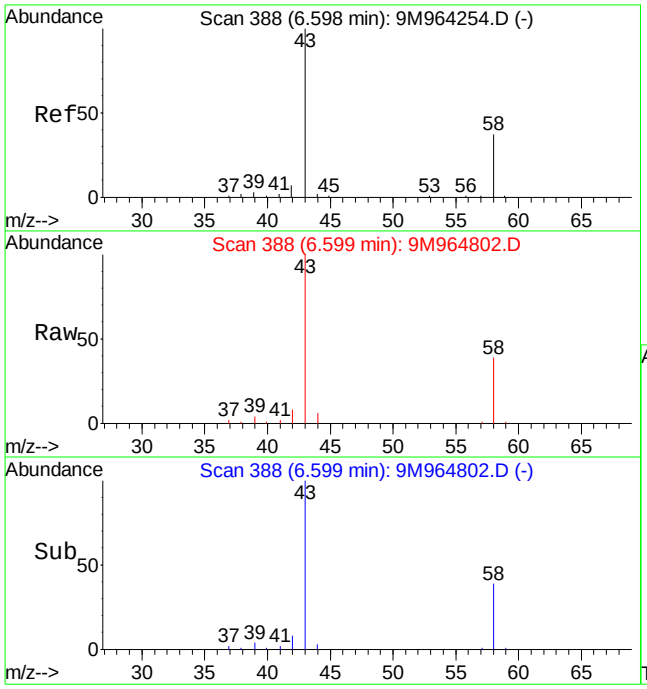


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 0.13 ug/L
RT: 6.55 min Scan# 383
Delta R.T. 0.03 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion:101 Resp: 924

Ion	Ratio	Lower	Upper
101	100		
151	48.6	45.6	125.6

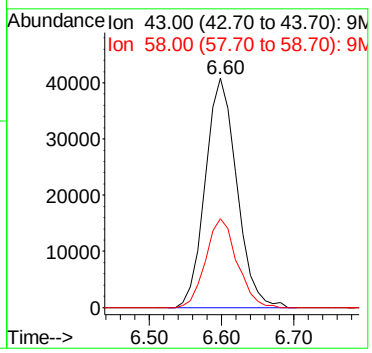


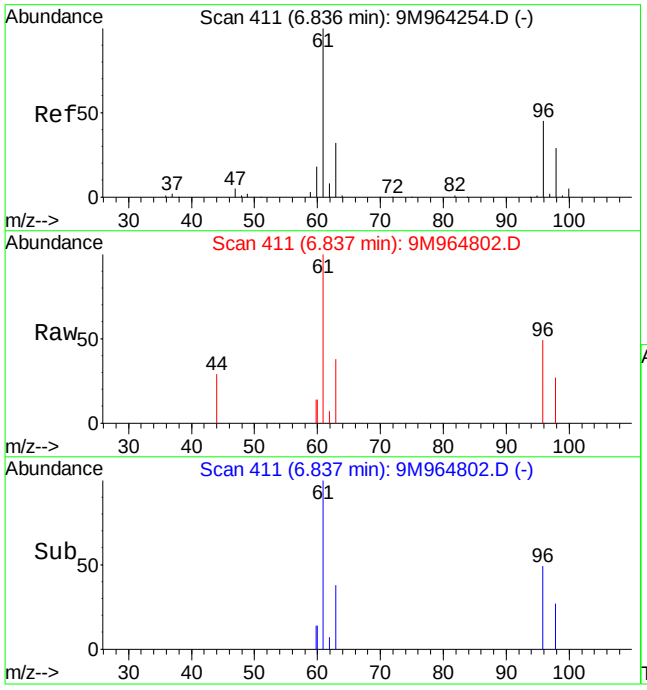


#13
Acetone
Concen: 36.44 ug/L
RT: 6.60 min Scan# 388
Delta R.T. 0.00 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion: 43 Resp: 122949

Ion	Ratio	Lower	Upper
43	100		
58	38.5	21.4	49.8

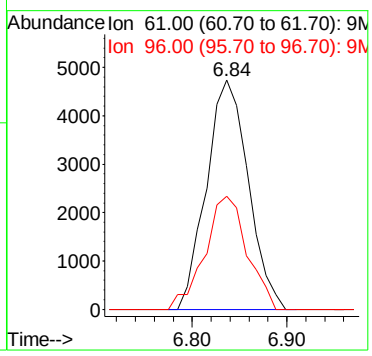


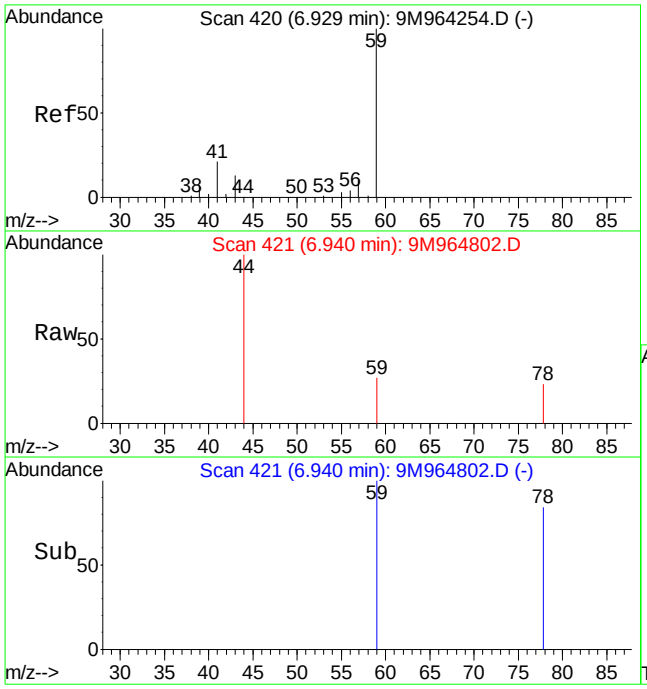


#14
1,1-Dichloroethene
Concen: 0.85 ug/L
RT: 6.84 min Scan# 411
Delta R.T. 0.00 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion: 61 Resp: 14483

Ion	Ratio	Lower	Upper
61	100		
96	49.7	26.2	61.0

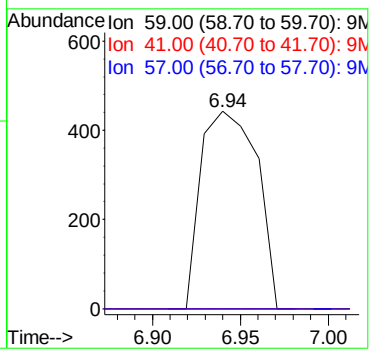


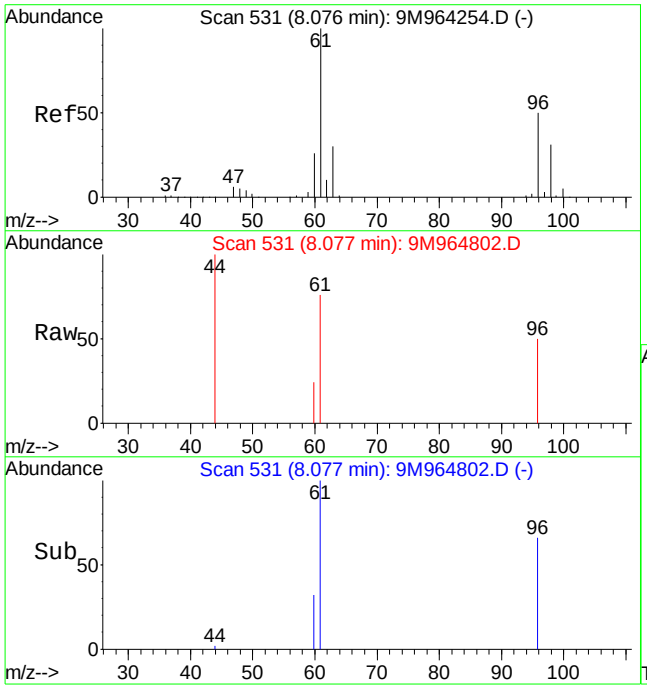


#15
Tert-Butyl Alcohol
Concen: 0.80 ug/L
RT: 6.94 min Scan# 421
Delta R.T. 0.01 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion: 59 Resp: 980

Ion	Ratio	Lower	Upper
59	100		
41	0.0	13.0	30.2#
57	0.0	6.1	14.3#

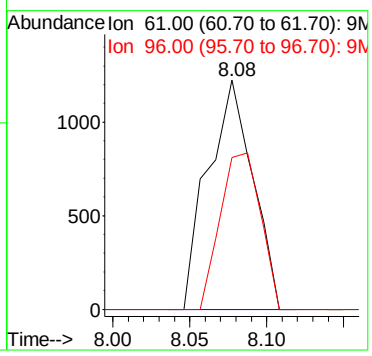


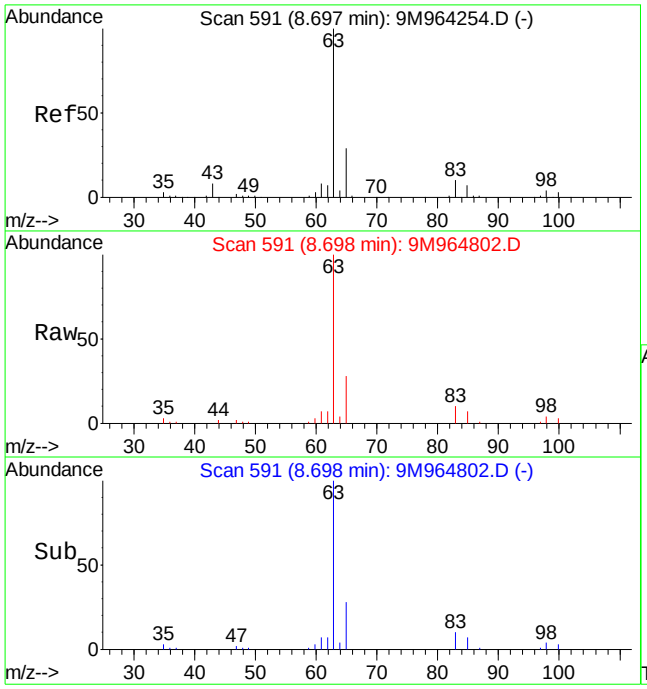


#23
trans-1,2-Dichloroethene
Concen: 0.15 ug/L
RT: 8.08 min Scan# 531
Delta R.T. 0.00 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion: 61 Resp: 2485

Ion	Ratio	Lower	Upper
61	100		
96	61.4	29.6	69.0

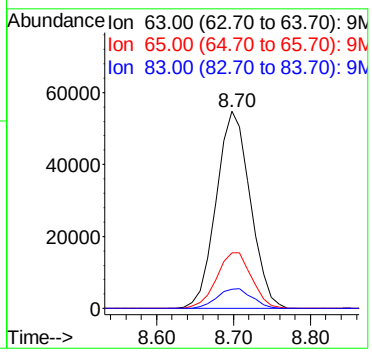


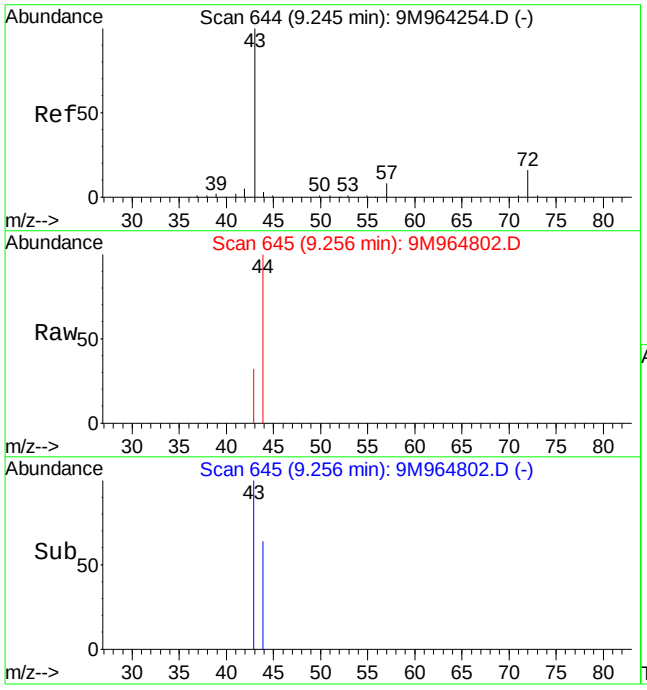


#27
1,1-Dichloroethane
Concen: 8.10 ug/L
RT: 8.70 min Scan# 591
Delta R.T. 0.00 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion: 63 Resp: 168373

Ion	Ratio	Lower	Upper
63	100		
65	29.2	17.3	40.3
83	10.3	6.0	14.0

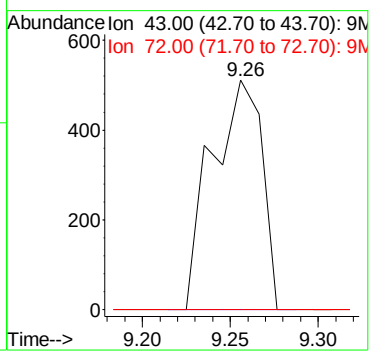


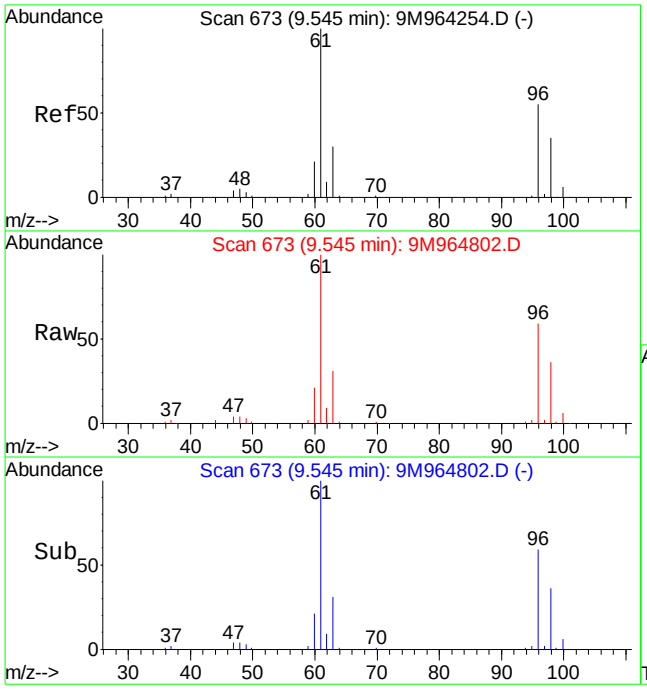


#29
2-Butanone
Concen: 0.19 ug/L
RT: 9.26 min Scan# 645
Delta R.T. 0.01 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion: 43 Resp: 1014

Ion	Ratio	Lower	Upper
43	100		
72	0.0	9.4	21.8#

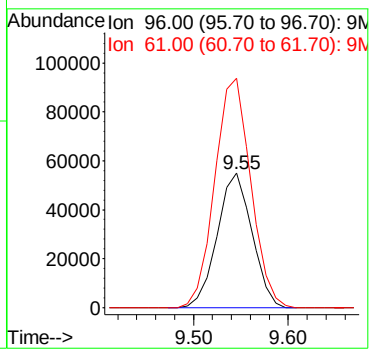


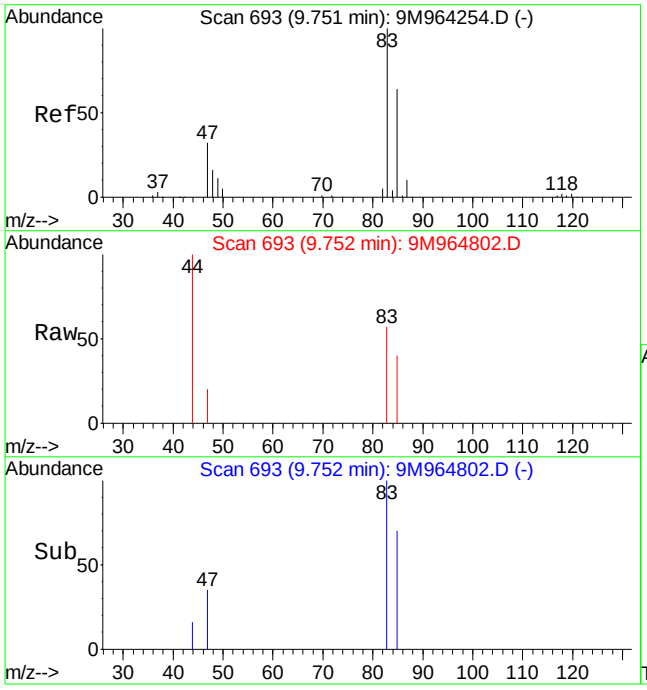


#32
cis-1,2-Dichloroethene
Concen: 14.45 ug/L
RT: 9.55 min Scan# 673
Delta R.T. 0.00 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion: 96 Resp: 139378

Ion	Ratio	Lower	Upper
96	100		
61	176.7	124.1	289.7

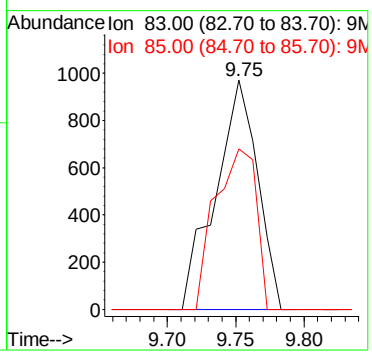


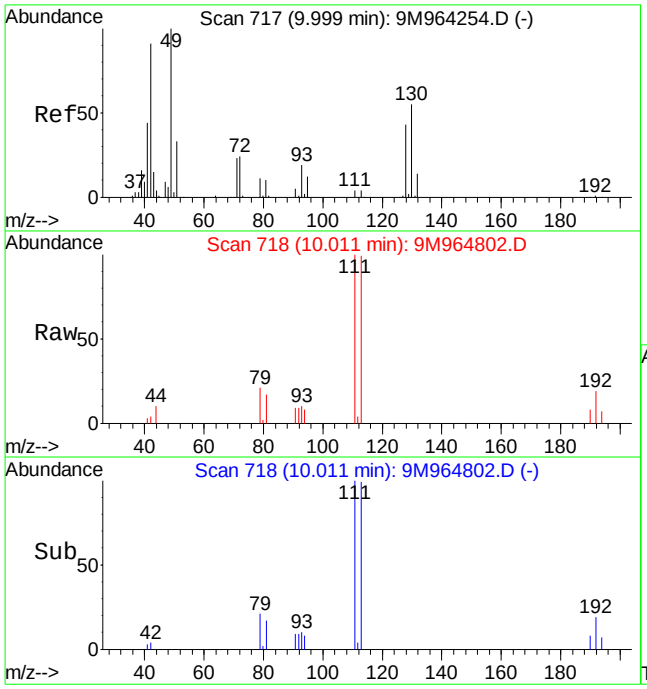


#33
Chloroform
Concen: 0.13 ug/L
RT: 9.75 min Scan# 693
Delta R.T. 0.00 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion: 83 Resp: 2075

Ion	Ratio	Lower	Upper
83	100		
85	68.3	38.8	90.4

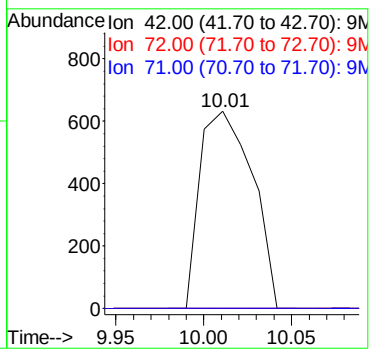


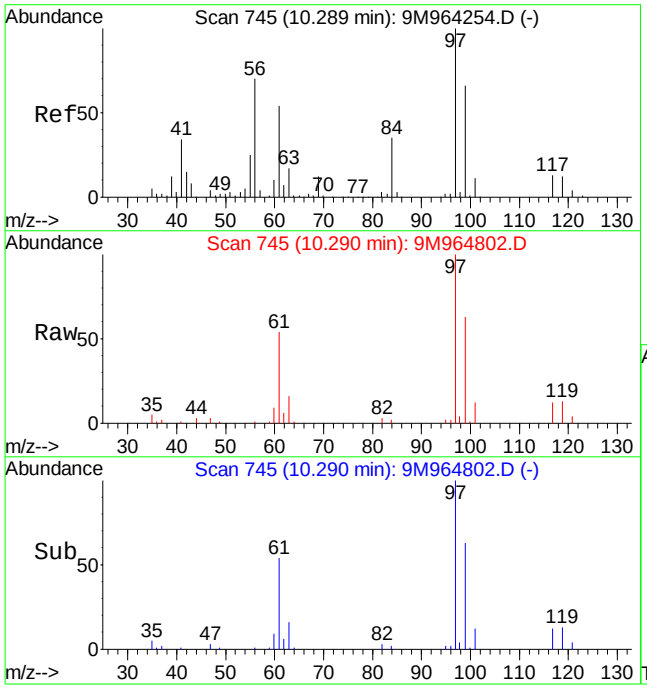


#36
Tetrahydrofuran
Concen: 0.36 ug/L
RT: 10.01 min Scan# 718
Delta R.T. 0.01 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion: 42 Resp: 1307

Ion	Ratio	Lower	Upper
42	100		
72	0.0	16.1	37.7#
71	0.0	15.3	35.7#

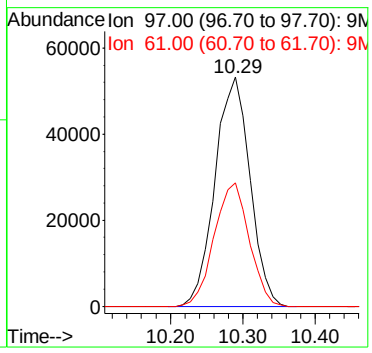


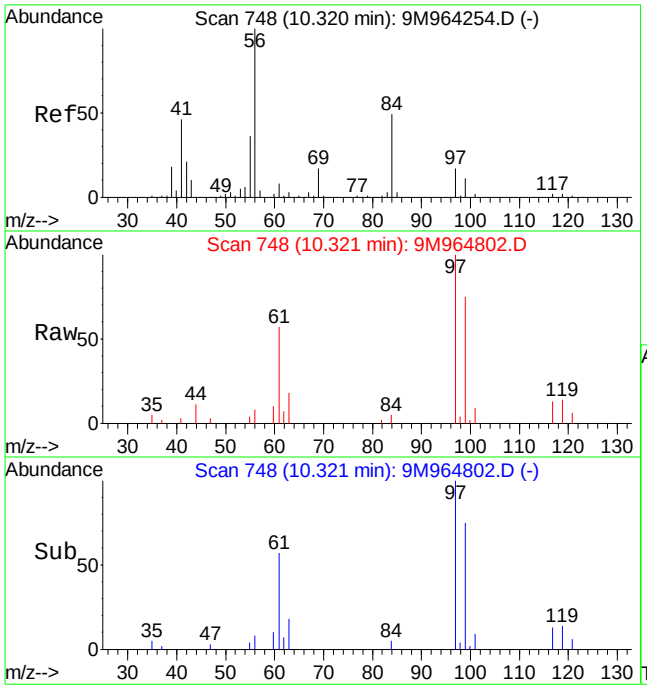


#38
1,1,1-Trichloroethane
Concen: 13.17 ug/L
RT: 10.29 min Scan# 745
Delta R.T. 0.00 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion: 97 Resp: 177843

Ion	Ratio	Lower	Upper
97	100		
61	53.8	33.3	77.7

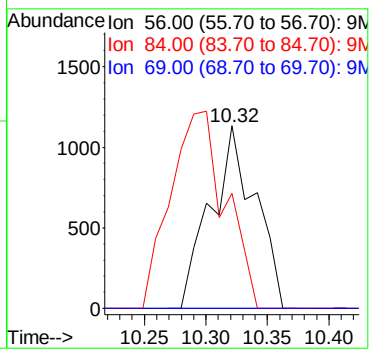


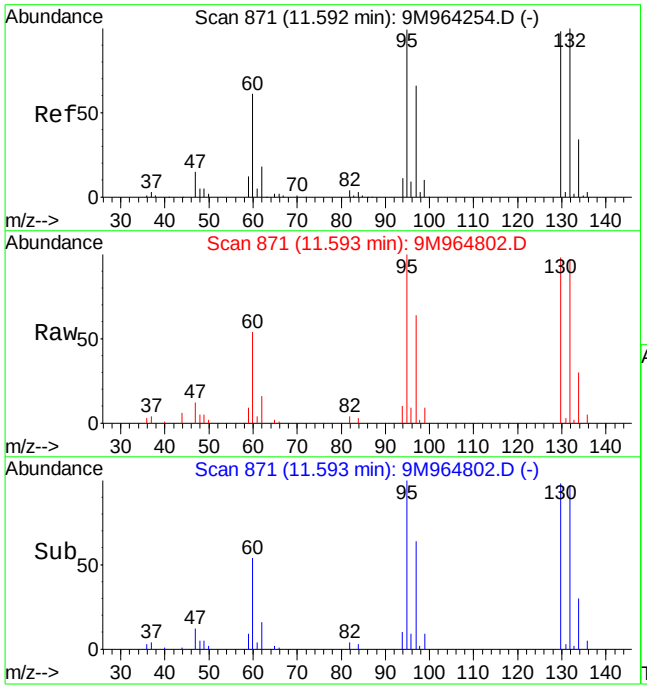


#39
Cyclohexane
Concen: 0.13 ug/L
RT: 10.32 min Scan# 748
Delta R.T. 0.00 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion: 56 Resp: 2838

Ion	Ratio	Lower	Upper
56	100		
84	133.8	30.2	70.4#
69	0.0	10.4	24.4#

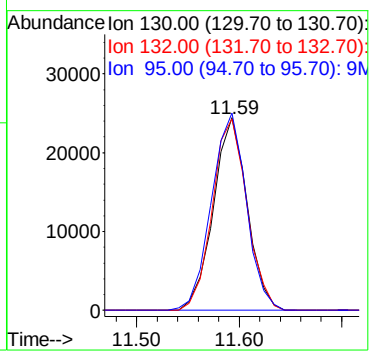


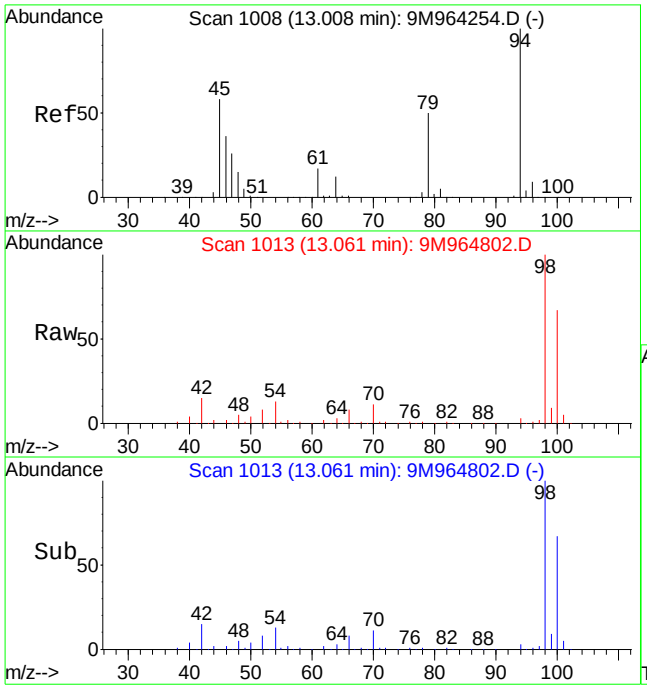


#47
Trichloroethene
Concen: 5.75 ug/L
RT: 11.59 min Scan# 871
Delta R.T. 0.00 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion:130 Resp: 56029

Ion	Ratio	Lower	Upper
130	100		
132	101.4	61.8	144.2
95	105.6	60.8	141.8

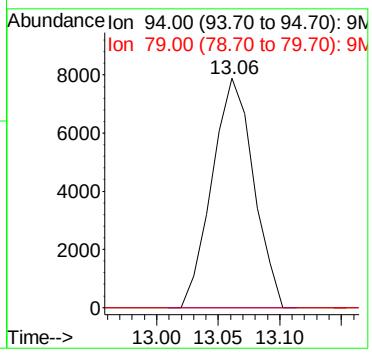


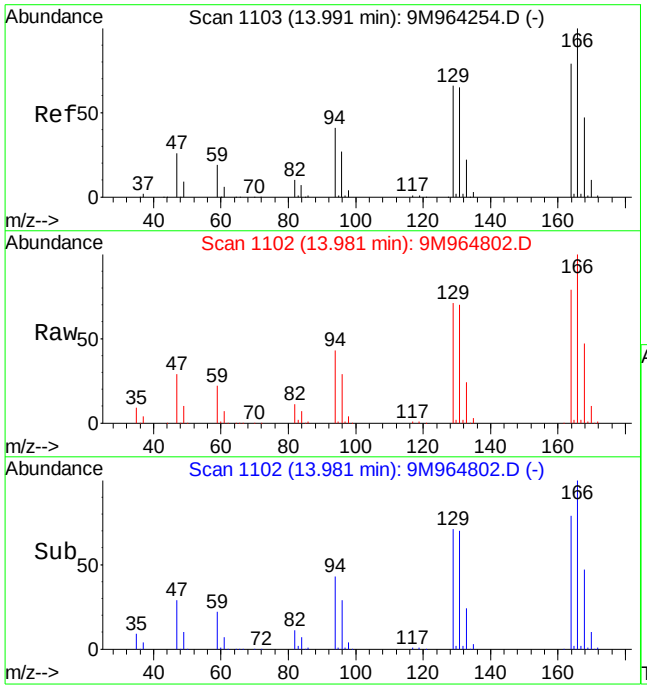


#56
Dimethyl Disulfide
Concen: 1.22 ug/L
RT: 13.06 min Scan# 1013
Delta R.T. 0.05 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion: 94 Resp: 18528

Ion	Ratio	Lower	Upper
94	100		
79	0.0	29.8	69.6#

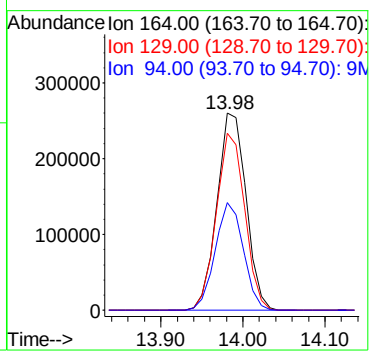




#65
Tetrachloroethene
Concen: 94.58 ug/L
RT: 13.98 min Scan# 1102
Delta R.T. -0.01 min
Lab File: 9M964802.D
Acq: 19 Jul 2014 2:29

Tgt Ion:164 Resp: 643047

Ion	Ratio	Lower	Upper
164	100		
129	87.5	51.4	120.0
94	52.7	32.2	75.2



Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964800.D Vial: 19
Acq On : 19 Jul 2014 1:30 Operator: FJB
Sample : L14070607-13 FB B 826-LOW Inst : HPMS9
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 09:26:57 2014 Quant Results File: 8260WTR.RES

Quant Method : K:\ORGANICS\V...\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	815951	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	564851	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	278154	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	10.04	111	190502	22.0147 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 88.04%		
43) 1,2-Dichloroethane-d4	10.68	65	242119	20.9203 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 83.68%		
58) Toluene-d8	13.06	98	704256	25.2361 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 100.96%		
79) p-Bromofluorobenzene	16.46	95	255715	25.4806 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.92%		

Target Compounds

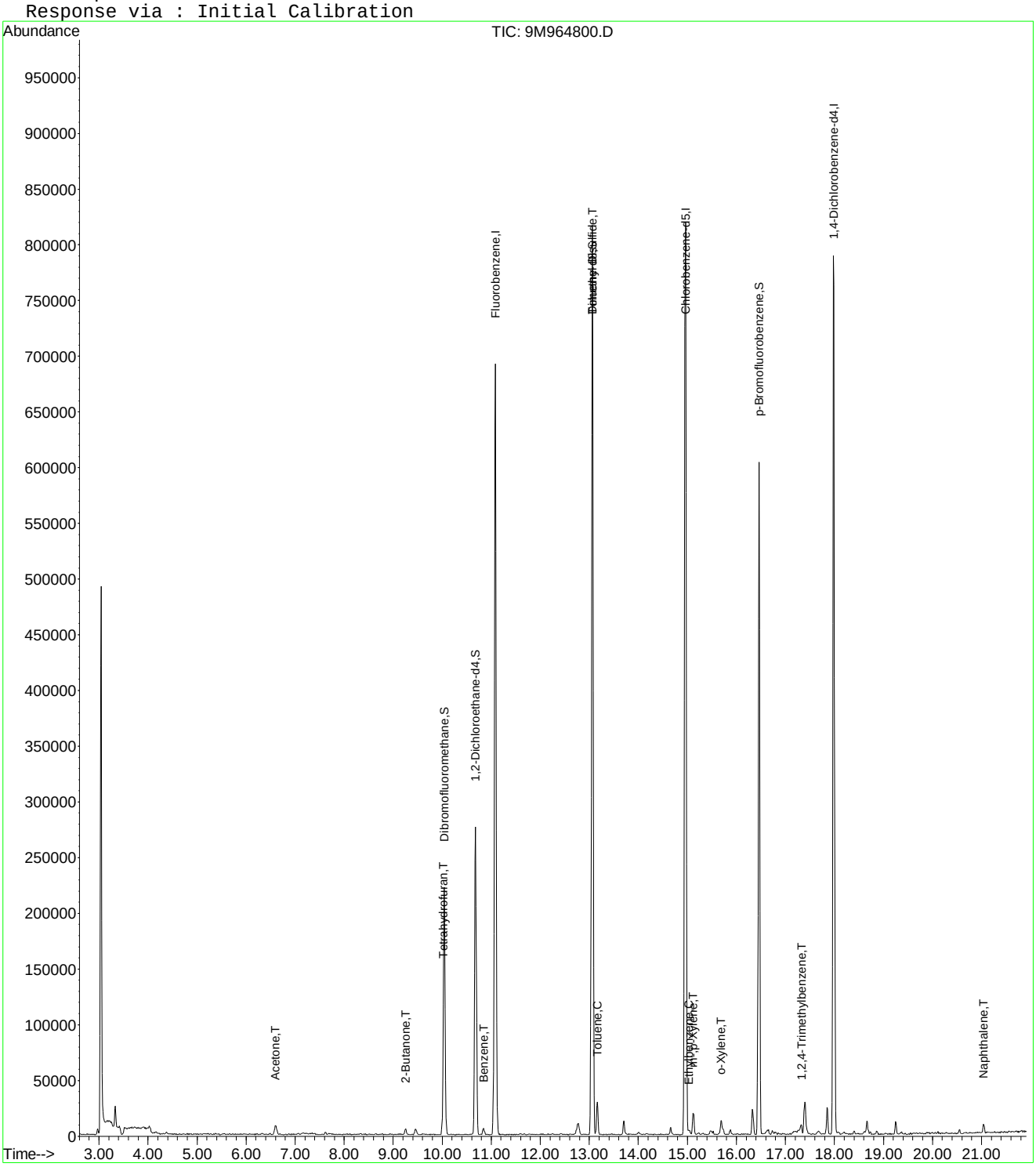
					Qvalue
13) Acetone	6.60	43	16147	4.7025 ug/L	94
29) 2-Butanone	9.26	43	10546	1.9153 ug/L	92
36) Tetrahydrofuran	10.02	42	3203	0.8602 ug/L #	73
46) Benzene	10.85	78	7333	0.2117 ug/L	94
56) Dimethyl Disulfide	13.06	94	18808	1.2193 ug/L #	28
59) Toluene	13.16	91	30964	0.9259 ug/L	95
71) Ethylbenzene	15.04	106	1812	0.1470 ug/L	98
72) m-,p-Xylene	15.12	106	7461	0.5140 ug/L	86
73) o-Xylene	15.69	106	3846	0.2564 ug/L	96
89) 1,2,4-Trimethylbenzene	17.33	105	8281	0.2922 ug/L	89
99) Naphthalene	21.04	128	8408	0.3136 ug/L	89

(#) = qualifier out of range (m) = manual integration
9M964800.D 8260WTR.M Tue Jul 22 09:27:00 2014 Page 1

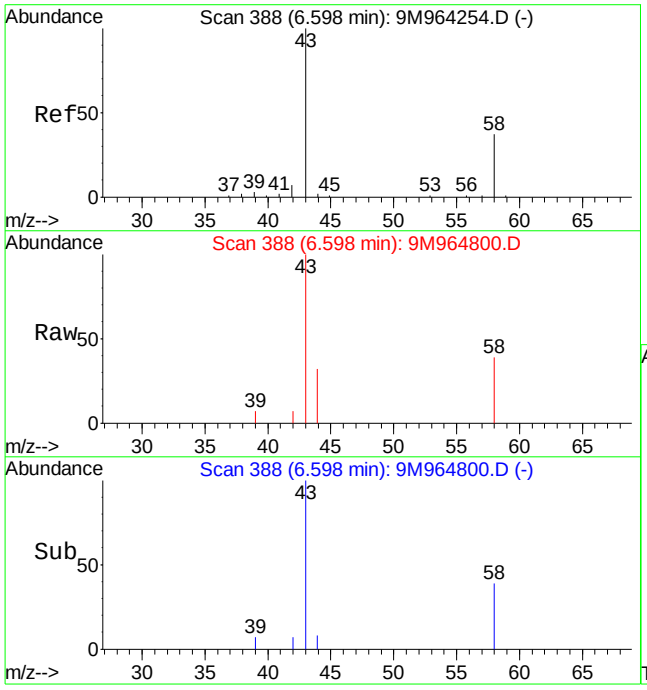
Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964800.D Vial: 19
Acq On : 19 Jul 2014 1:30 Operator: FJB
Sample : L14070607-13 FB B 826-LOW Inst : HPMS9
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 9:26 2014 Quant Results File: 8260WTR.RES

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



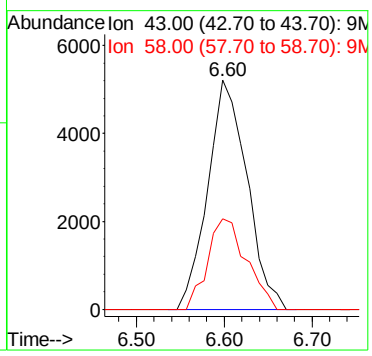
9M964800.D 8260WTR.M Tue Jul 22 09:27:01 2014 Page 2

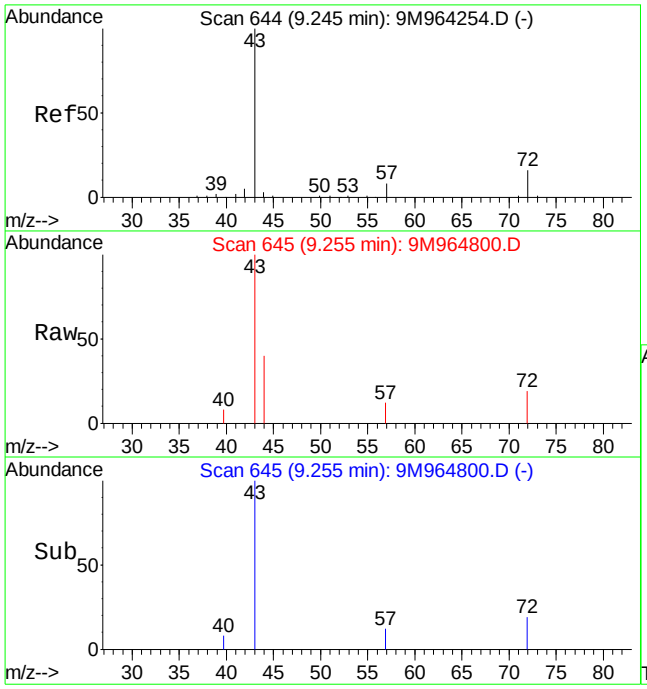


#13
Acetone
Concen: 4.70 ug/L
RT: 6.60 min Scan# 388
Delta R.T. 0.00 min
Lab File: 9M964800.D
Acq: 19 Jul 2014 1:30

Tgt Ion: 43 Resp: 16147

Ion	Ratio	Lower	Upper
43	100		
58	39.0	21.4	49.8

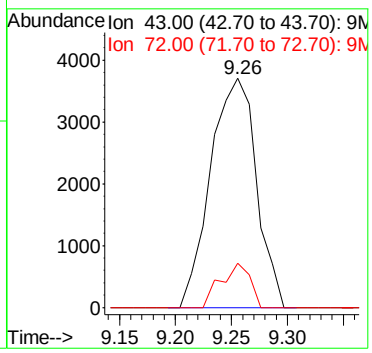


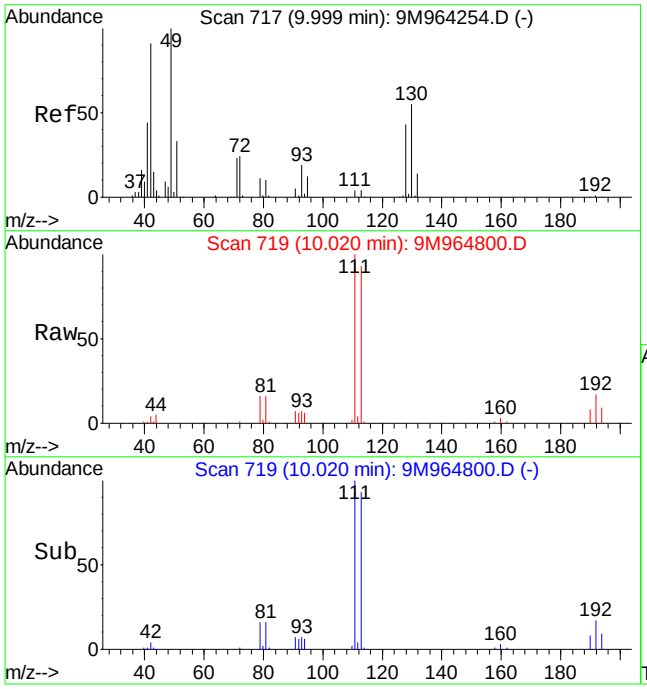


#29
2-Butanone
Concen: 1.92 ug/L
RT: 9.26 min Scan# 645
Delta R.T. 0.01 min
Lab File: 9M964800.D
Acq: 19 Jul 2014 1:30

Tgt Ion: 43 Resp: 10546

Ion	Ratio	Lower	Upper
43	100		
72	12.3	9.4	21.8

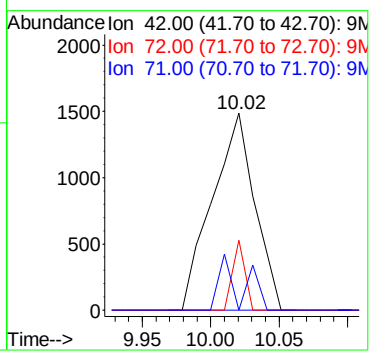


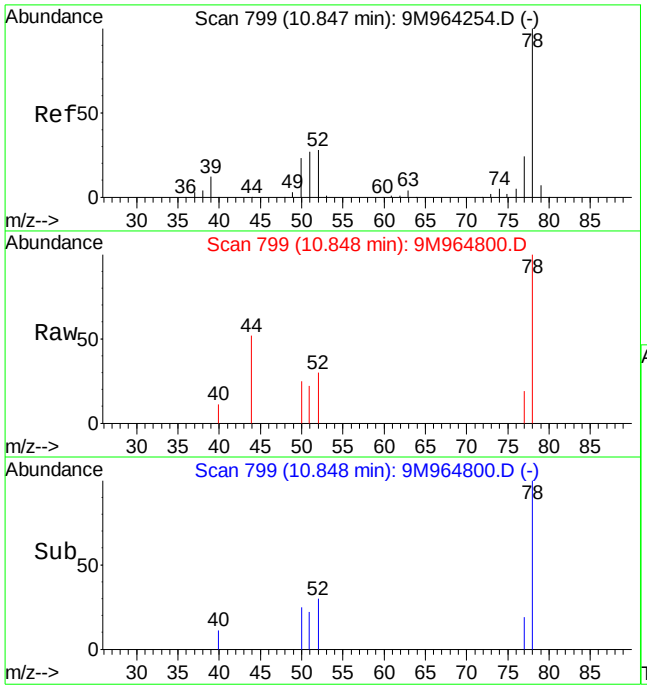


#36
Tetrahydrofuran
Concen: 0.86 ug/L
RT: 10.02 min Scan# 719
Delta R.T. 0.02 min
Lab File: 9M964800.D
Acq: 19 Jul 2014 1:30

Tgt Ion: 42 Resp: 3203

Ion	Ratio	Lower	Upper
42	100		
72	10.2	16.1	37.7#
71	14.8	15.3	35.7#

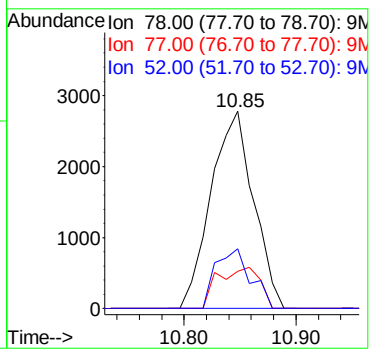


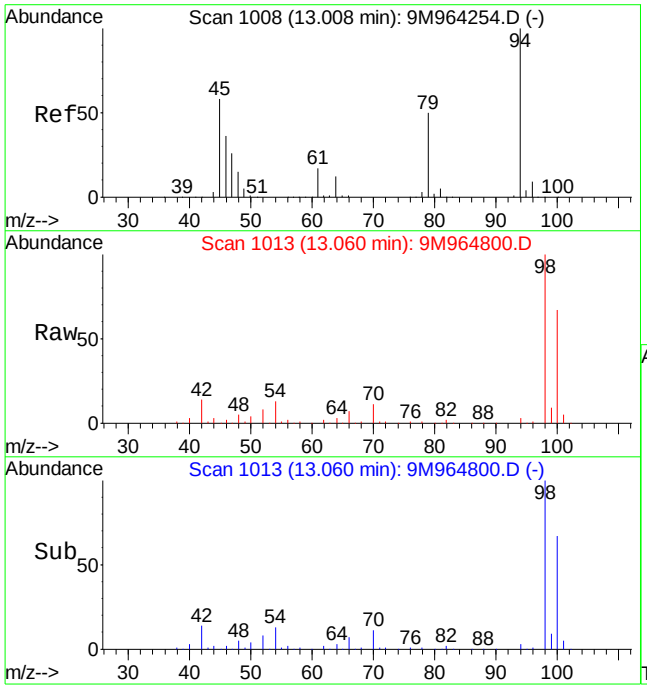


#46
Benzene
Concen: 0.21 ug/L
RT: 10.85 min Scan# 799
Delta R.T. 0.00 min
Lab File: 9M964800.D
Acq: 19 Jul 2014 1:30

Tgt Ion: 78 Resp: 7333

Ion	Ratio	Lower	Upper
78	100		
77	20.5	14.0	32.6
52	24.9	17.1	39.9

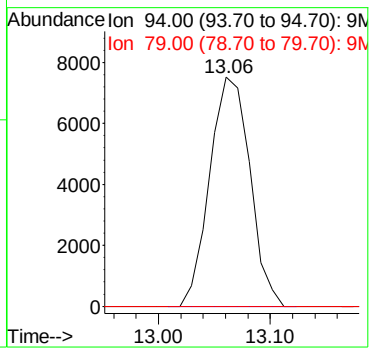


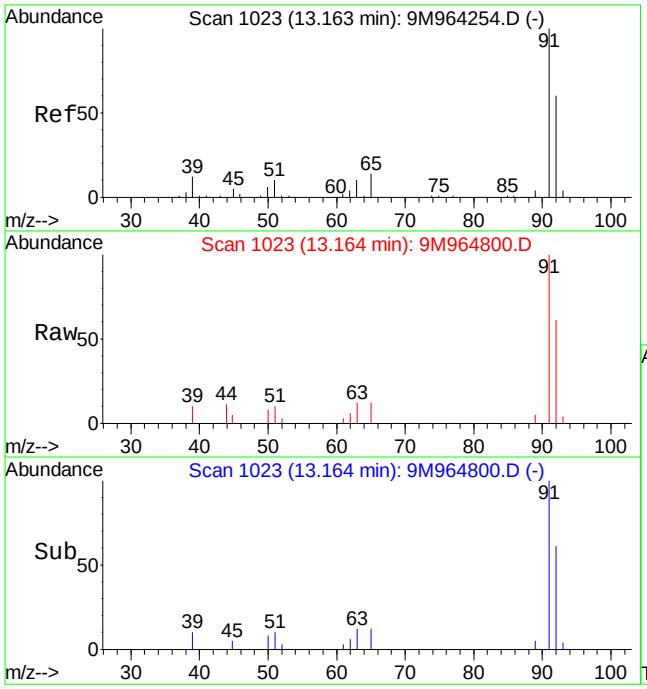


#56
Dimethyl Disulfide
Concen: 1.22 ug/L
RT: 13.06 min Scan# 1013
Delta R.T. 0.05 min
Lab File: 9M964800.D
Acq: 19 Jul 2014 1:30

Tgt Ion: 94 Resp: 18808

Ion	Ratio	Lower	Upper
94	100		
79	0.0	29.8	69.6#

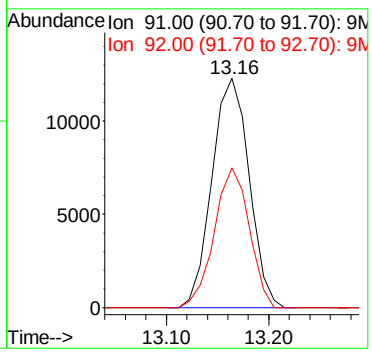


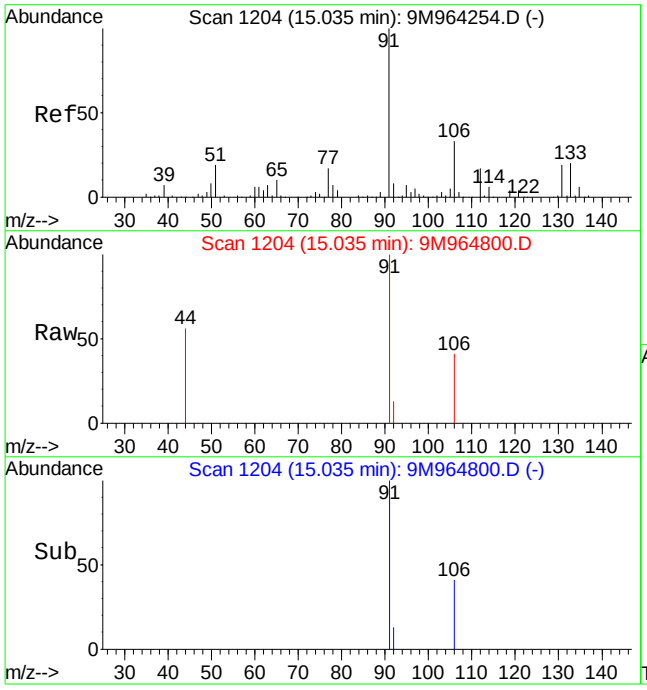


#59
Toluene
Concen: 0.93 ug/L
RT: 13.16 min Scan# 1023
Delta R.T. 0.00 min
Lab File: 9M964800.D
Acq: 19 Jul 2014 1:30

Tgt Ion: 91 Resp: 30964

Ion	Ratio	Lower	Upper
91	100		
92	57.2	36.5	85.3

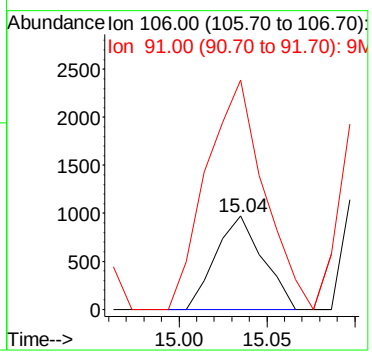


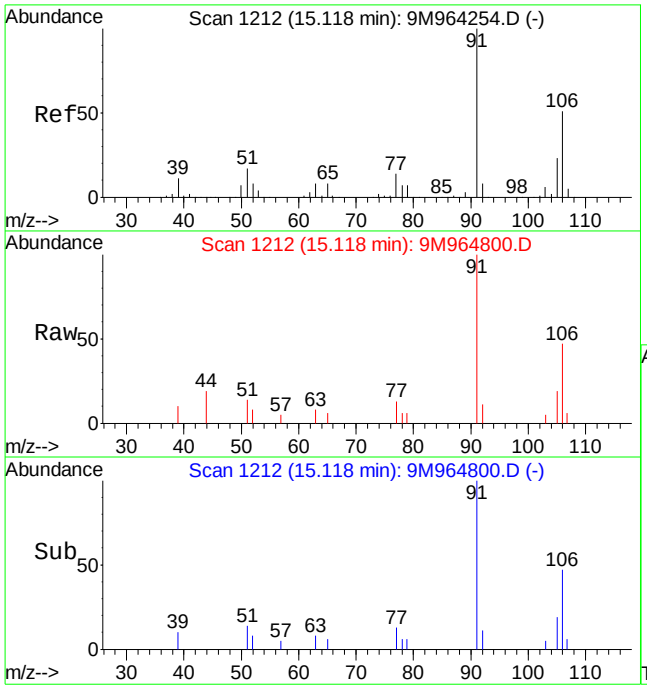


#71
Ethylbenzene
Concen: 0.15 ug/L
RT: 15.04 min Scan# 1204
Delta R.T. 0.00 min
Lab File: 9M964800.D
Acq: 19 Jul 2014 1:30

Tgt Ion:106 Resp: 1812

Ion	Ratio	Lower	Upper
106	100		
91	300.9	183.2	427.6

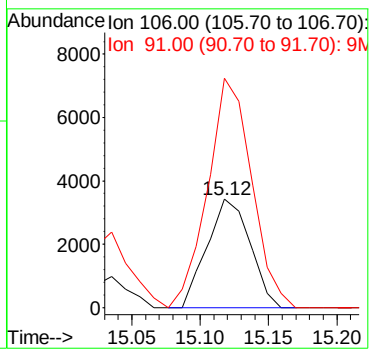


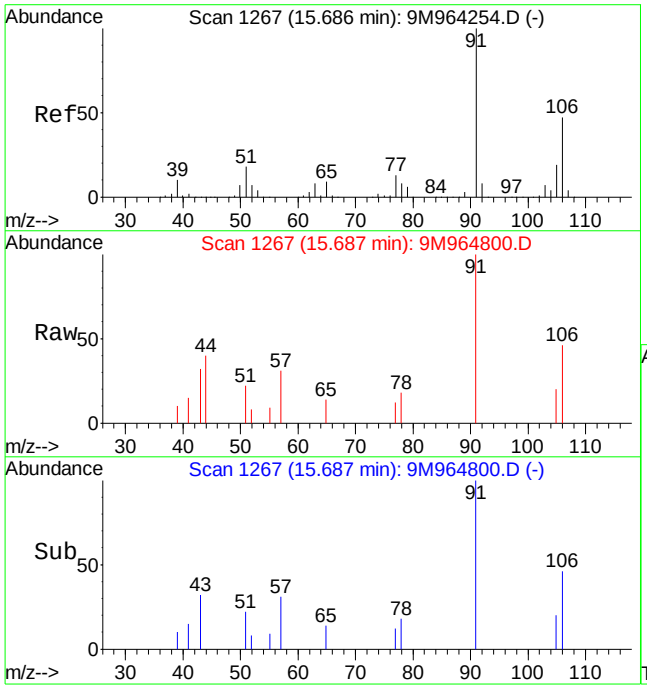


#72
m-,p-Xylene
Concen: 0.51 ug/L
RT: 15.12 min Scan# 1212
Delta R.T. 0.00 min
Lab File: 9M964800.D
Acq: 19 Jul 2014 1:30

Tgt Ion:106 Resp: 7461

Ion	Ratio	Lower	Upper
106	100		
91	216.4	117.2	273.6

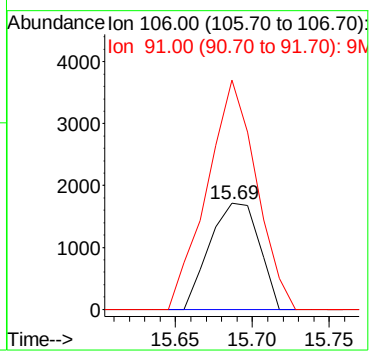


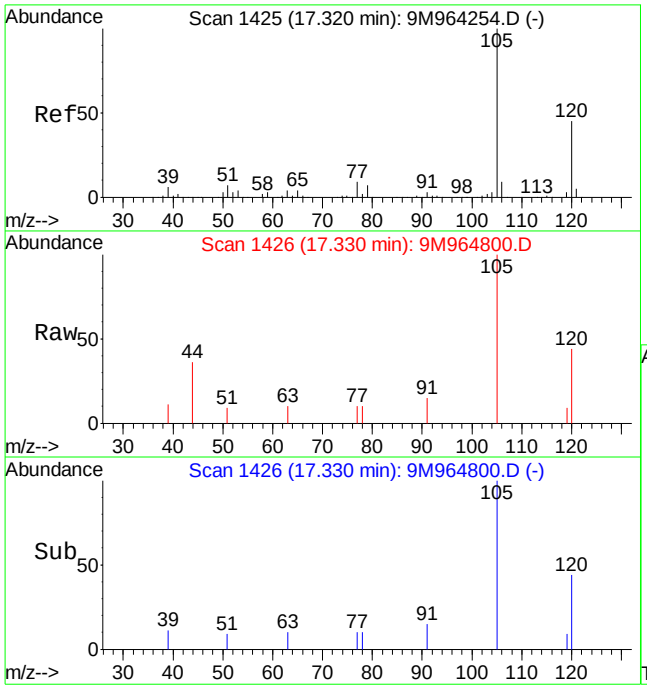


#73
o-Xylene
Concen: 0.26 ug/L
RT: 15.69 min Scan# 1267
Delta R.T. 0.00 min
Lab File: 9M964800.D
Acq: 19 Jul 2014 1:30

Tgt Ion:106 Resp: 3846

Ion	Ratio	Lower	Upper
106	100		
91	215.4	125.3	292.3

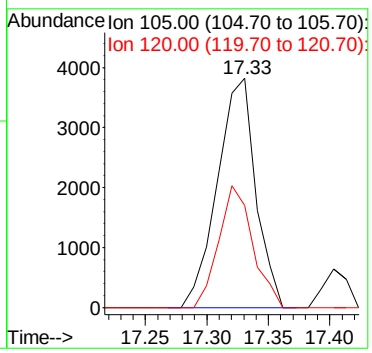


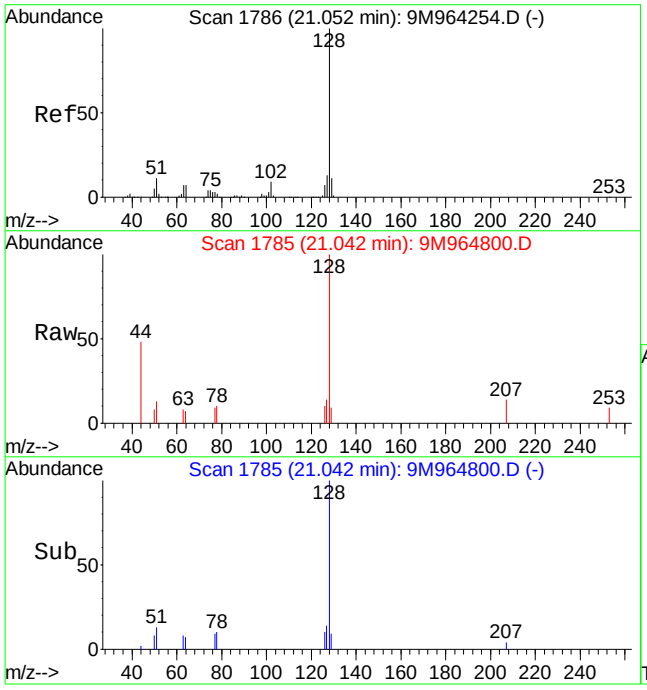


#89
1,2,4-Trimethylbenzene
Concen: 0.29 ug/L
RT: 17.33 min Scan# 1426
Delta R.T. 0.01 min
Lab File: 9M964800.D
Acq: 19 Jul 2014 1:30

Tgt Ion:105 Resp: 8281

Ion	Ratio	Lower	Upper
105	100		
120	47.2	33.0	77.0

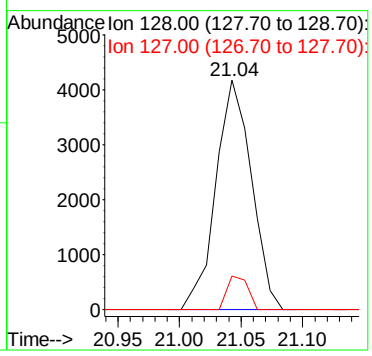




#99
Naphthalene
Concen: 0.31 ug/L
RT: 21.04 min Scan# 1785
Delta R.T. -0.01 min
Lab File: 9M964800.D
Acq: 19 Jul 2014 1:30

Tgt Ion:128 Resp: 8408

Ion	Ratio	Lower	Upper
128	100		
127	8.4	7.6	17.8



Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964799.D Vial: 18
Acq On : 19 Jul 2014 1:01 Operator: FJB
Sample : L14070607-14 TB B 826-LOW Inst : HPMS9
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 09:26:52 2014 Quant Results File: 8260WTR.RES

Quant Method : K:\ORGANICS\V...\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	824861	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	568163	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	279221	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	10.04	111	189532	21.6660 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 86.68%		
43) 1,2-Dichloroethane-d4	10.68	65	242070	20.6902 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 82.76%		
58) Toluene-d8	13.06	98	721021	25.6862 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.76%		
79) p-Bromofluorobenzene	16.46	95	258477	25.6574 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.64%		

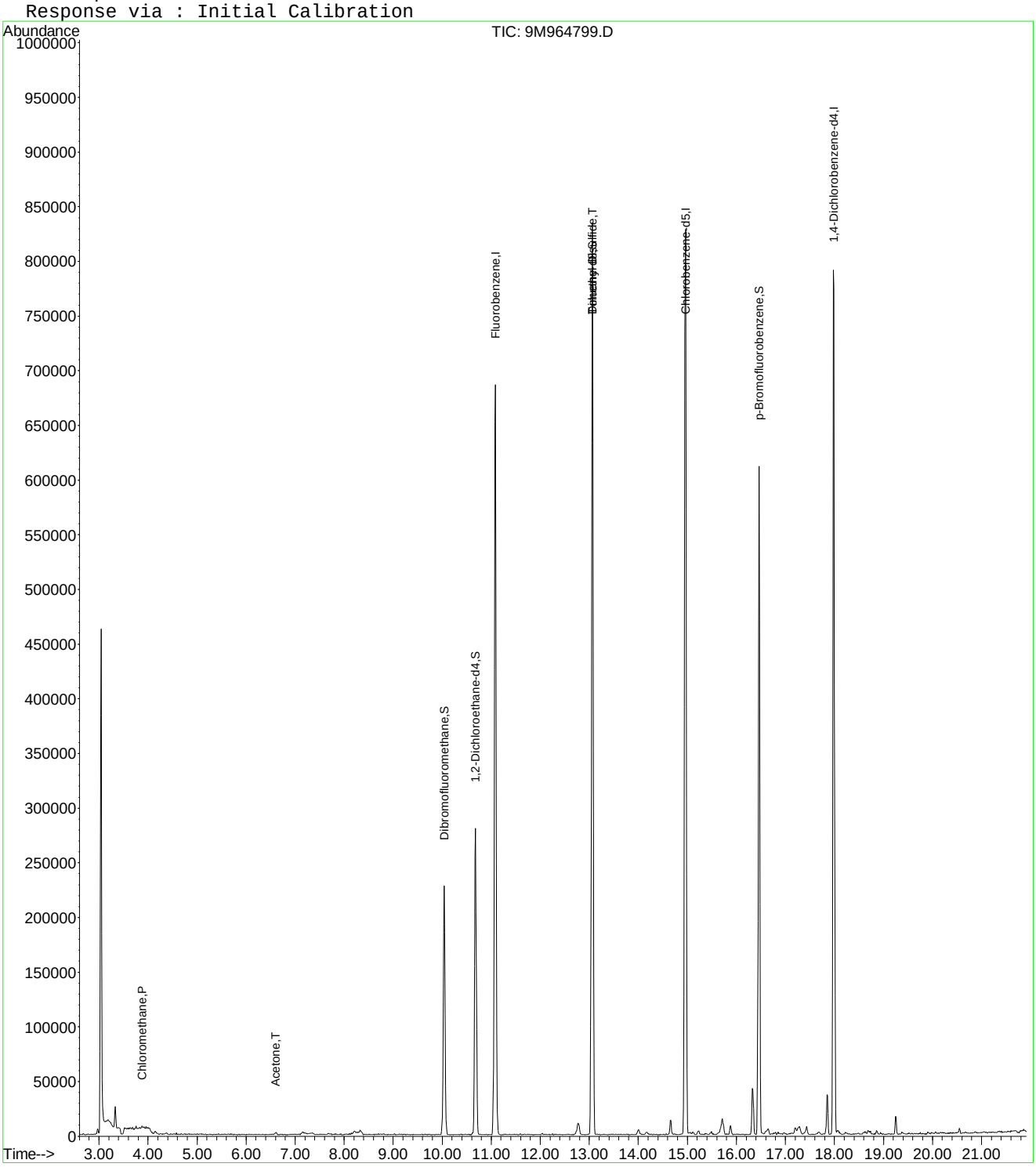
Target Compounds					Qvalue
3) Chloromethane	3.88	50	3122	0.1684 ug/L #	64
13) Acetone	6.61	43	3127	0.9008 ug/L	84
56) Dimethyl Disulfide	13.06	94	19003	1.2187 ug/L #	28

(#) = qualifier out of range (m) = manual integration
9M964799.D 8260WTR.M Tue Jul 22 09:26:55 2014 Page 1

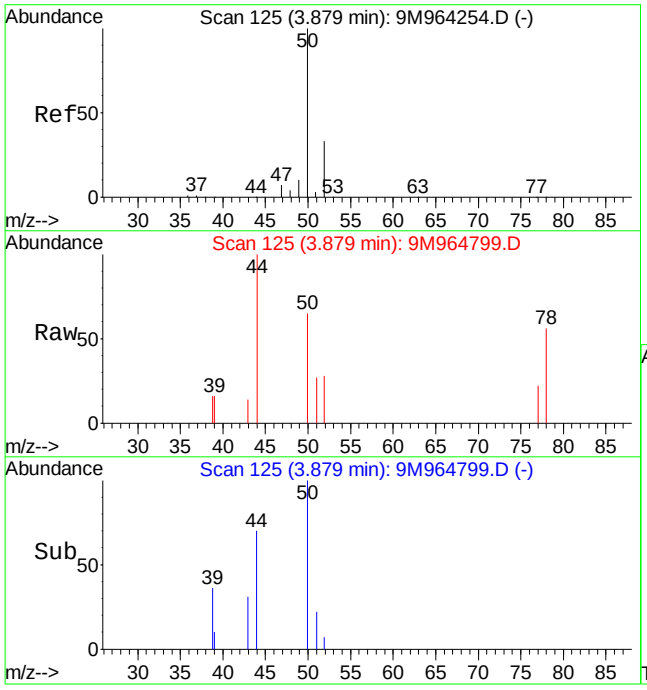
Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964799.D Vial: 18
Acq On : 19 Jul 2014 1:01 Operator: FJB
Sample : L14070607-14 TB B 826-LOW Inst : HPMS9
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 9:26 2014 Quant Results File: 8260WTR.RES

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



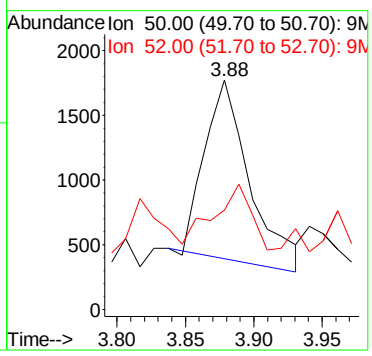
9M964799.D 8260WTR.M Tue Jul 22 09:26:55 2014 Page 2

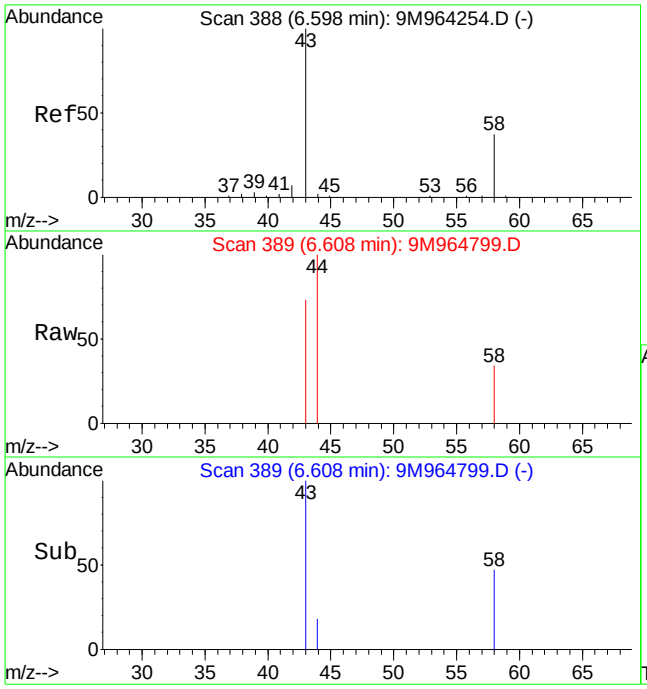


#3
Chloromethane
Concen: 0.17 ug/L
RT: 3.88 min Scan# 125
Delta R.T. 0.00 min
Lab File: 9M964799.D
Acq: 19 Jul 2014 1:01

Tgt Ion: 50 Resp: 3122

Ion	Ratio	Lower	Upper
50	100		
52	54.3	20.2	47.2#

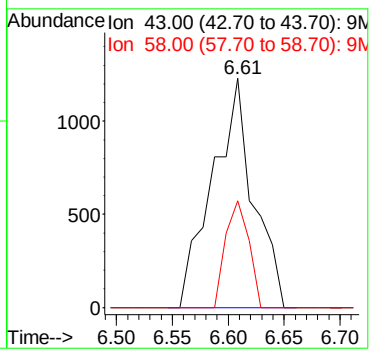


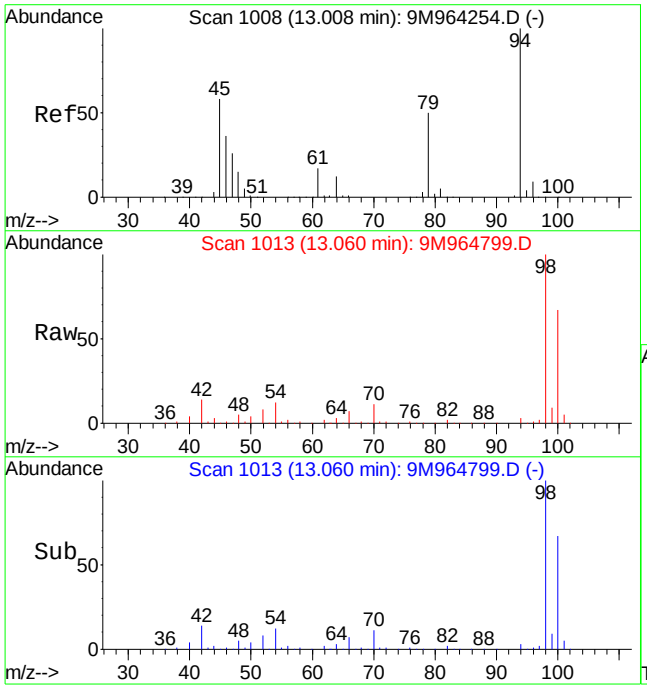


#13
Acetone
Concen: 0.90 ug/L
RT: 6.61 min Scan# 389
Delta R.T. 0.01 min
Lab File: 9M964799.D
Acq: 19 Jul 2014 1:01

Tgt Ion: 43 Resp: 3127

Ion	Ratio	Lower	Upper
43	100		
58	26.4	21.4	49.8

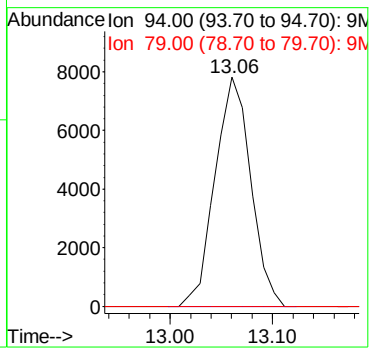




#56
Dimethyl Disulfide
Concen: 1.22 ug/L
RT: 13.06 min Scan# 1013
Delta R.T. 0.05 min
Lab File: 9M964799.D
Acq: 19 Jul 2014 1:01

Tgt Ion: 94 Resp: 19003

Ion	Ratio	Lower	Upper
94	100		
79	0.0	29.8	69.6#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02560.D Vial: 19
Acq On : 18 Jul 2014 00:28 Operator: ADC
Sample : L14070607-15 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 09:57:23 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	791166	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	647814	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.09	152	322262	25.00 ug/L	-0.01

System Monitoring Compounds

37) Dibromofluoromethane	9.66	111	242272	24.5203 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.08%		
43) 1,2-Dichloroethane-d4	10.27	65	235925	24.4688 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 97.88%		
57) Toluene-d8	12.51	98	881596	23.2285 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 92.92%		
78) p-Bromofluorobenzene	15.68	95	325613	23.3698 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 93.48%		

Target Compounds

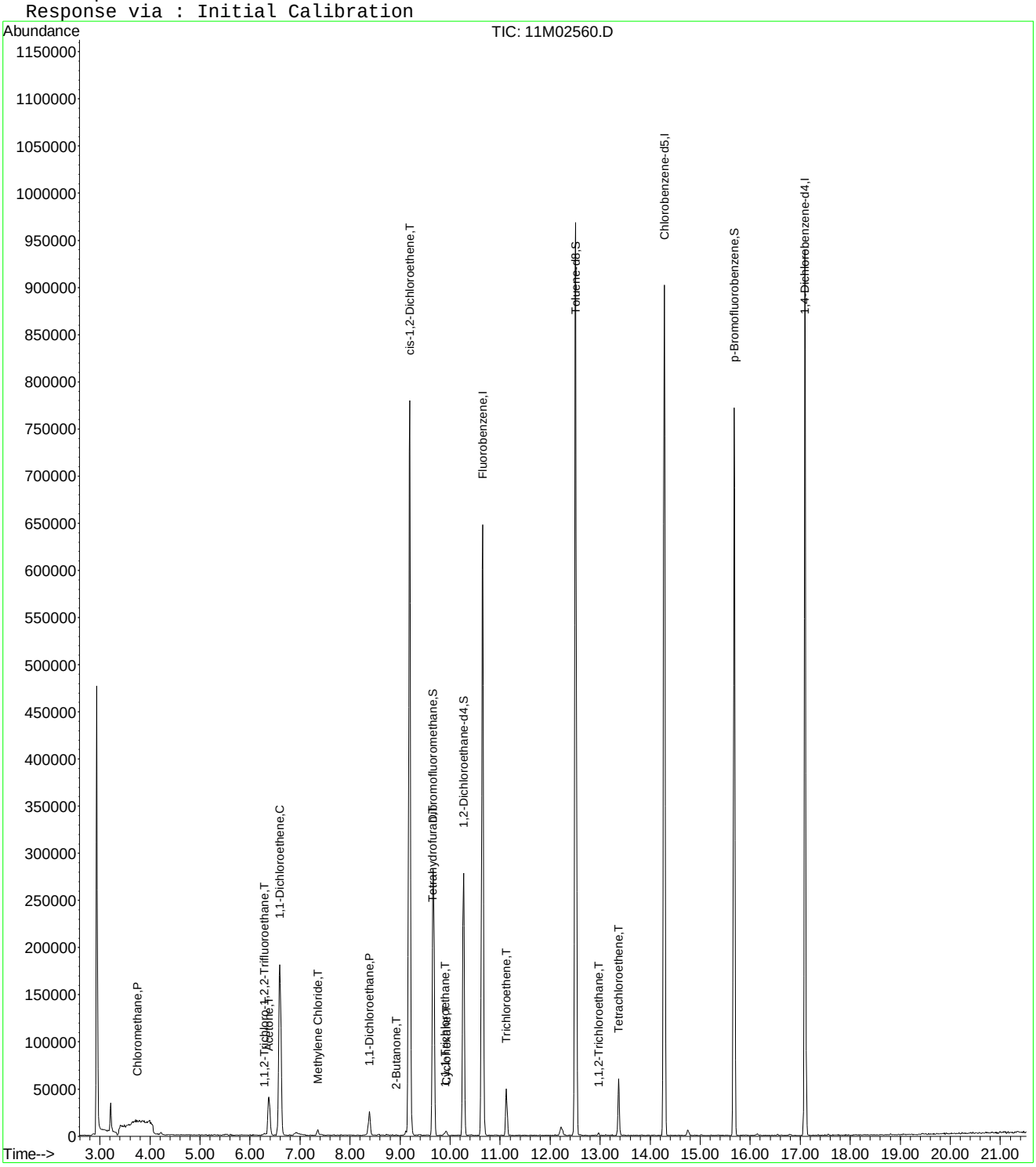
					Qvalue
3) Chloromethane	3.75	50	3250	0.2174 ug/L #	72
12) 1,1,2-Trichloro-1,2,2-Trif	6.29	101	2422	0.2474 ug/L	62
13) Acetone	6.38	43	80102	50.1376 ug/L	96
14) 1,1-Dichloroethene	6.60	61	199022	13.7332 ug/L	89
19) Methylene Chloride	7.35	84	3922	0.3657 ug/L	82
27) 1,1-Dichloroethane	8.39	63	37115	2.1380 ug/L	98
29) 2-Butanone	8.92	43	492	0.2148 ug/L #	54
32) cis-1,2-Dichloroethene	9.19	96	471084	40.9736 ug/L	72
36) Tetrahydrofuran	9.65	42	643	0.4322 ug/L #	37
38) 1,1,1-Trichloroethane	9.90	97	2392	0.1450 ug/L #	66
39) Cyclohexane	9.93	56	3024	0.1957 ug/L	90
46) Trichloroethene	11.13	130	22093	1.8625 ug/L	96
61) 1,1,2-Trichloroethane	12.97	97	1165	0.1408 ug/L	93
64) Tetrachloroethene	13.37	164	17673	1.7939 ug/L	93

(#) = qualifier out of range (m) = manual integration
11M02560.D 8260WTR.M Tue Jul 22 09:57:25 2014 Page 1

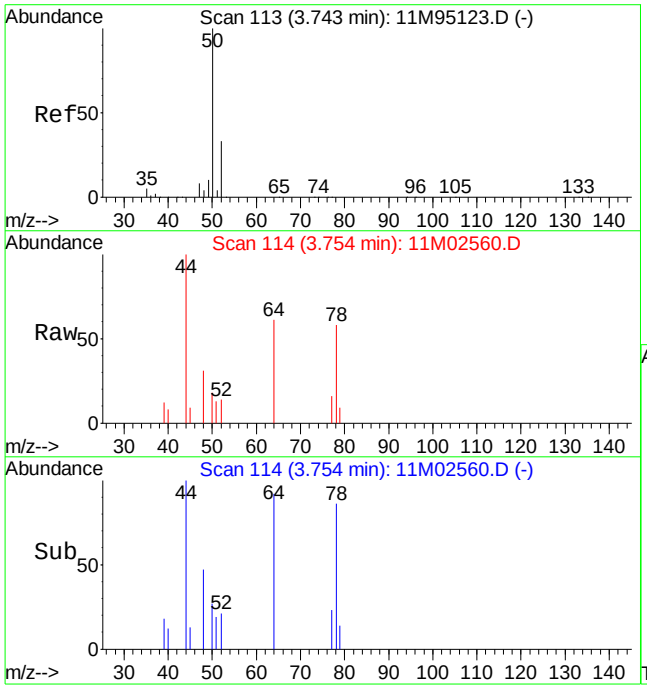
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02560.D Vial: 19
Acq On : 18 Jul 2014 00:28 Operator: ADC
Sample : L14070607-15 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 9:57 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration



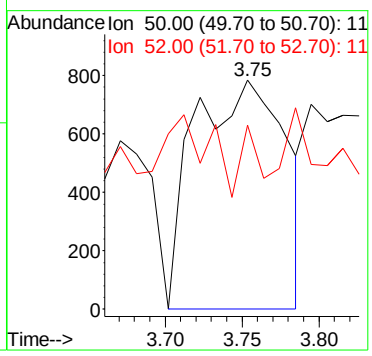
11M02560.D 8260WTR.M Tue Jul 22 09:57:25 2014 Page 2

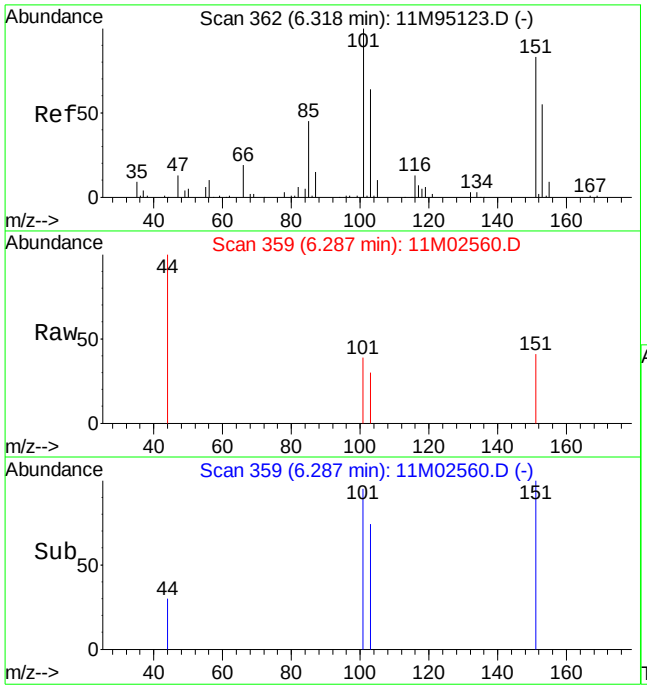


#3
Chloromethane
Concen: 0.22 ug/L
RT: 3.75 min Scan# 114
Delta R.T. 0.01 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion: 50 Resp: 3250

Ion	Ratio	Lower	Upper
50	100		
52	16.5	19.4	45.4#

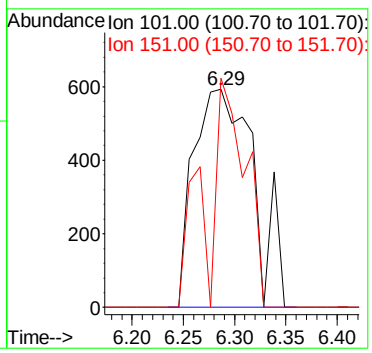


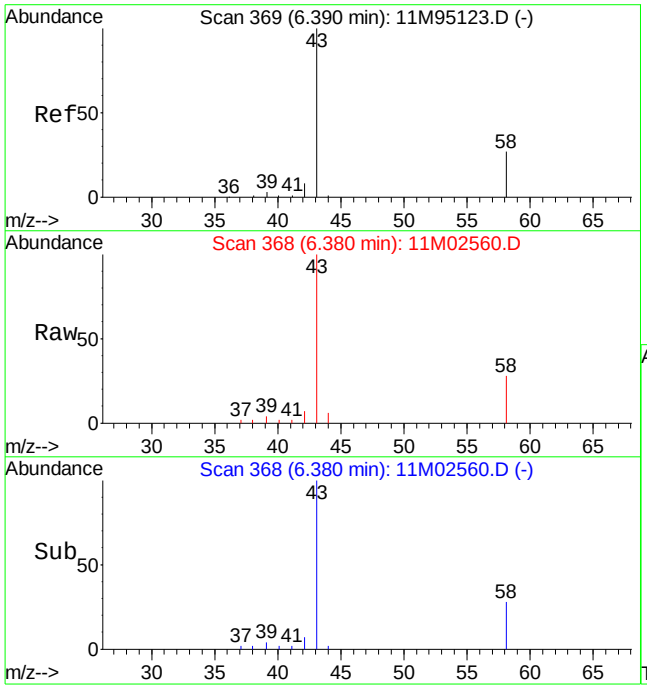


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 0.25 ug/L
RT: 6.29 min Scan# 359
Delta R.T. 0.00 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion:101 Resp: 2422

Ion	Ratio	Lower	Upper
101	100		
151	49.4	43.3	123.3

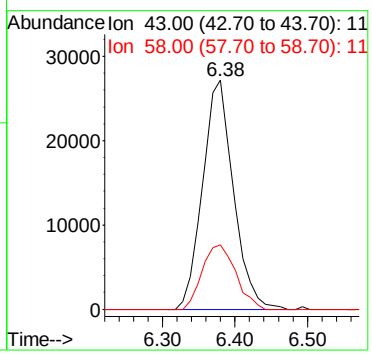


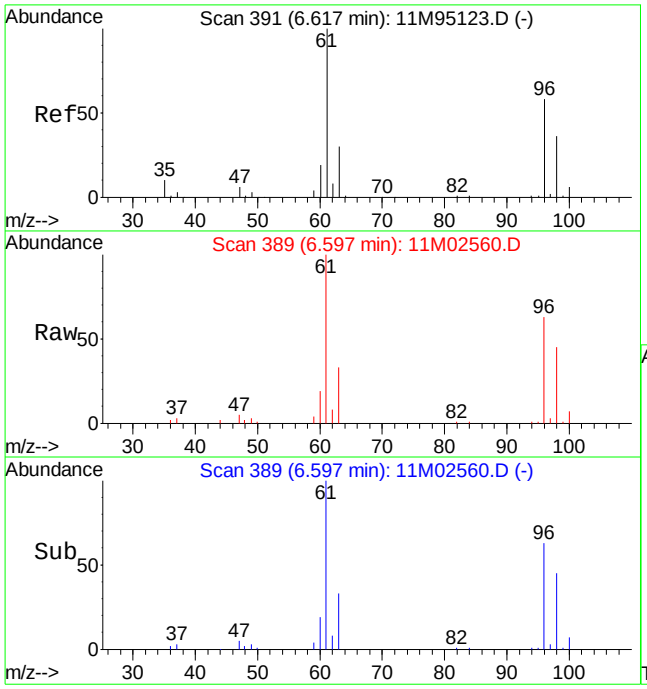


#13
Acetone
Concen: 50.14 ug/L
RT: 6.38 min Scan# 368
Delta R.T. 0.00 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion: 43 Resp: 80102

Ion	Ratio	Lower	Upper
43	100		
58	30.6	17.2	40.0

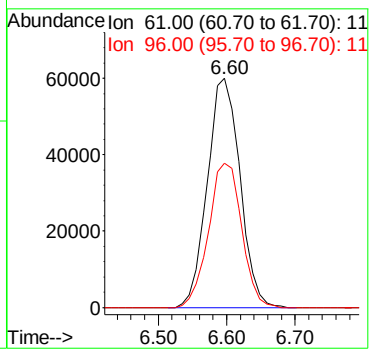


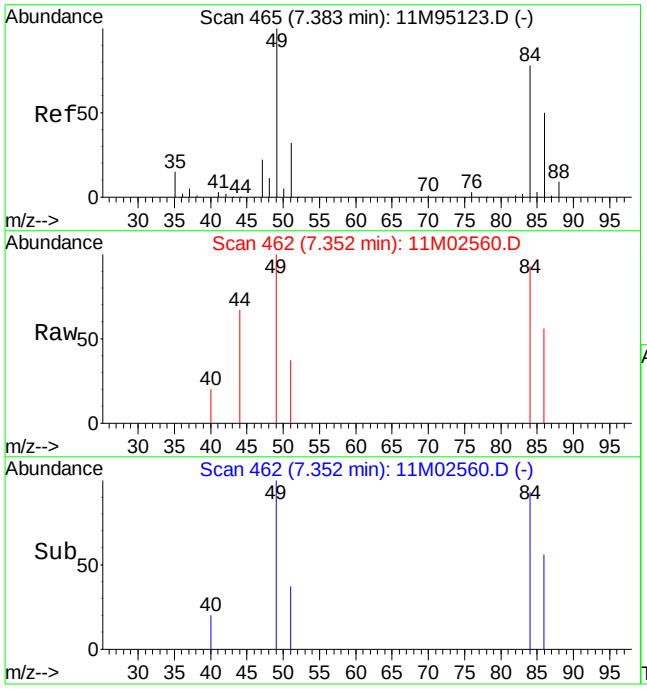


#14
1,1-Dichloroethene
Concen: 13.73 ug/L
RT: 6.60 min Scan# 389
Delta R.T. 0.00 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion: 61 Resp: 199022

Ion	Ratio	Lower	Upper
61	100		
96	63.7	33.5	78.1

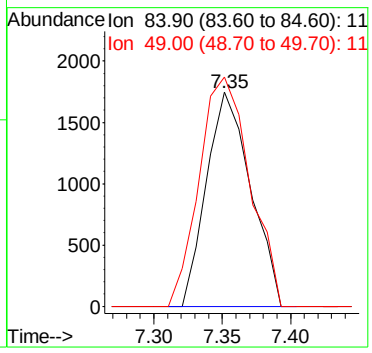


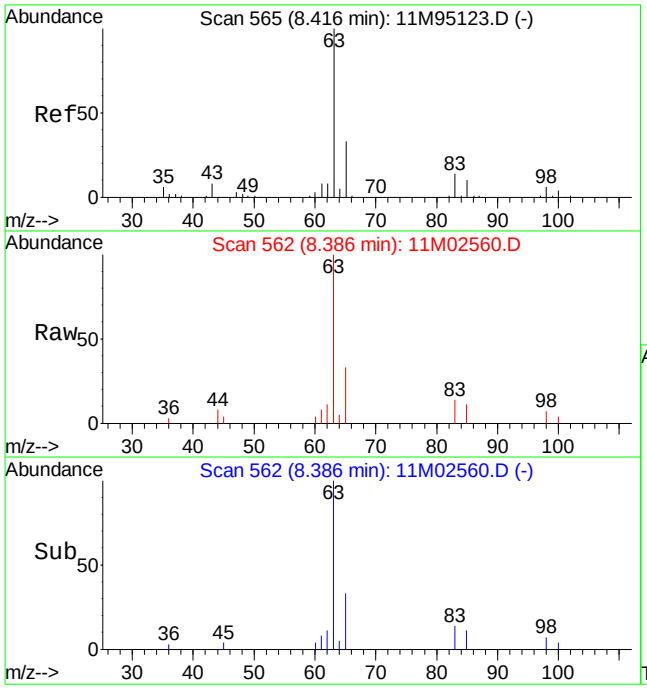


#19
Methylene Chloride
Concen: 0.37 ug/L
RT: 7.35 min Scan# 462
Delta R.T. 0.00 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion: 84 Resp: 3922

Ion	Ratio	Lower	Upper
84	100		
49	122.6	87.4	203.8

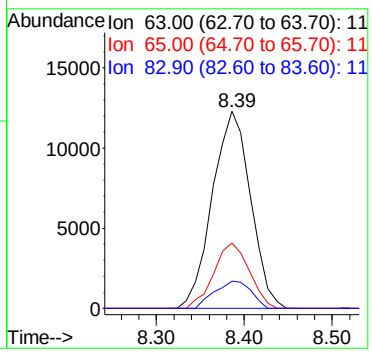


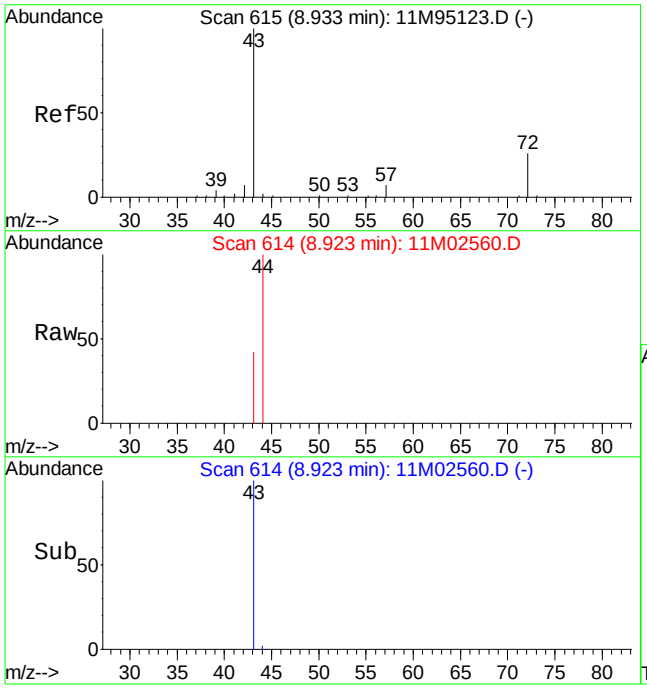


#27
1,1-Dichloroethane
Concen: 2.14 ug/L
RT: 8.39 min Scan# 562
Delta R.T. 0.00 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion: 63 Resp: 37115

Ion	Ratio	Lower	Upper
63	100		
65	30.9	19.3	45.1
83	13.3	7.9	18.5

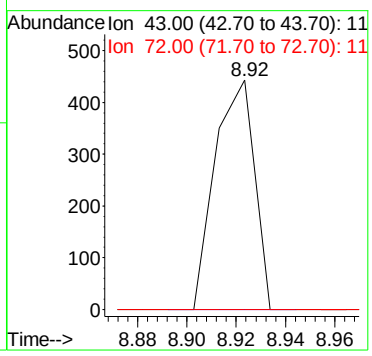


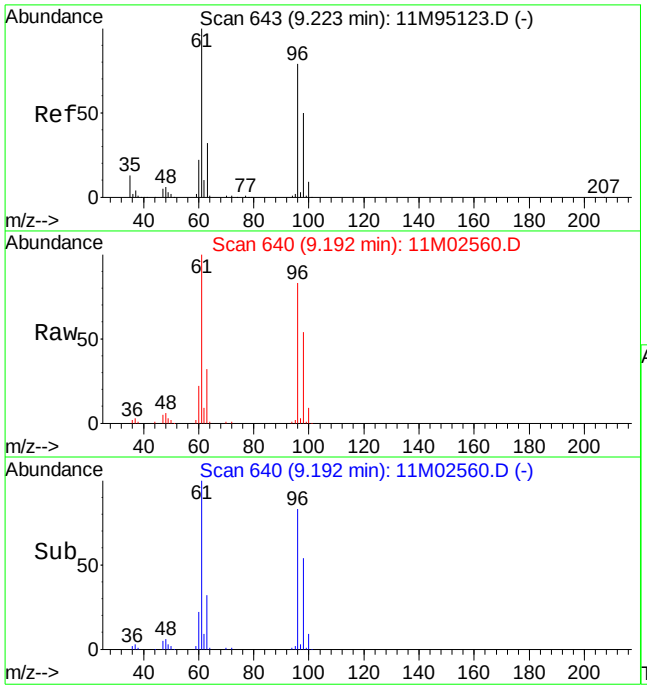


#29
2-Butanone
Concen: 0.21 ug/L
RT: 8.92 min Scan# 614
Delta R.T. 0.01 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion: 43 Resp: 492

Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.3	30.9#

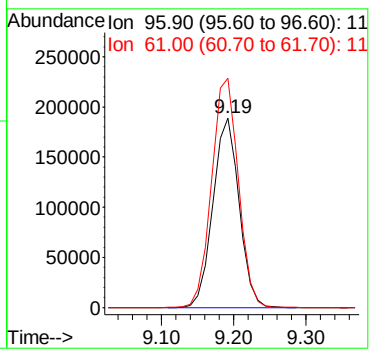


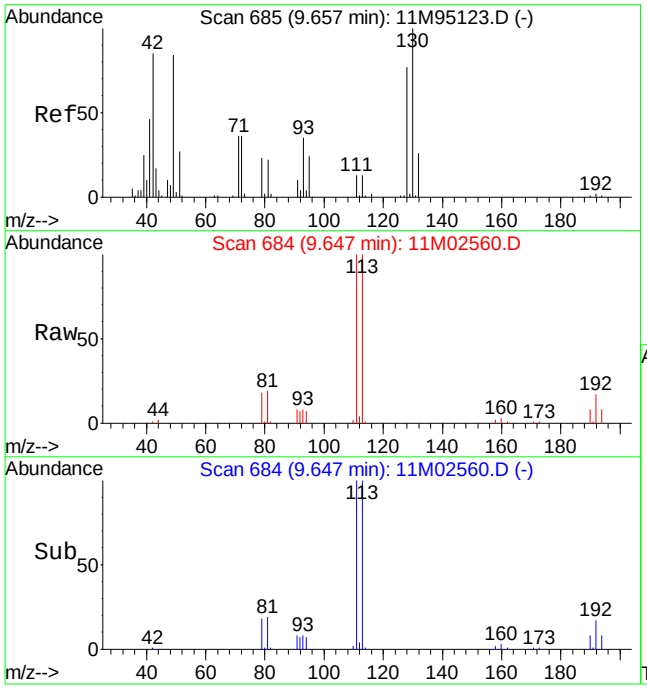


#32
cis-1,2-Dichloroethene
Concen: 40.97 ug/L
RT: 9.19 min Scan# 640
Delta R.T. 0.00 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion: 96 Resp: 471084

Ion	Ratio	Lower	Upper
96	100		
61	124.3	97.1	226.7

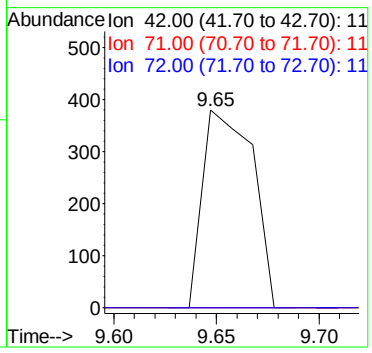


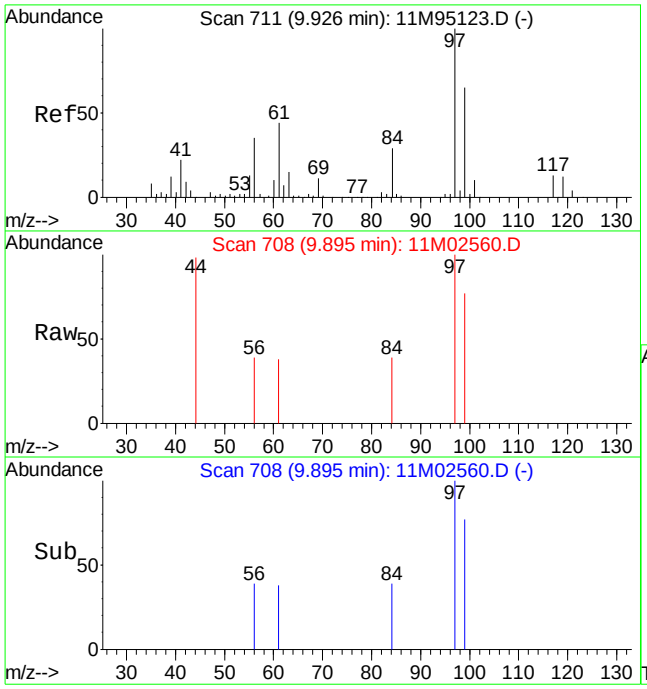


#36
Tetrahydrofuran
Concen: 0.43 ug/L
RT: 9.65 min Scan# 684
Delta R.T. 0.01 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion: 42 Resp: 643

Ion	Ratio	Lower	Upper
42	100		
71	0.0	22.4	52.2#
72	0.0	23.8	55.4#

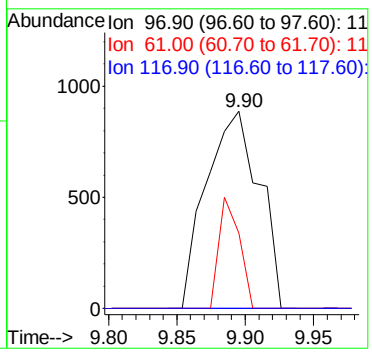


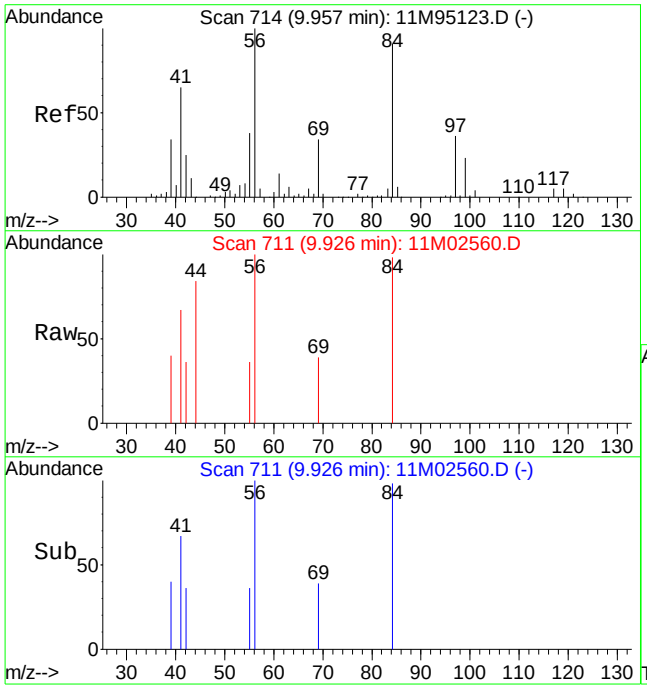


#38
1,1,1-Trichloroethane
Concen: 0.15 ug/L
RT: 9.90 min Scan# 708
Delta R.T. 0.00 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion: 97 Resp: 2392

Ion	Ratio	Lower	Upper
97	100		
61	21.8	26.2	61.0#
117	0.0	10.2	15.4#

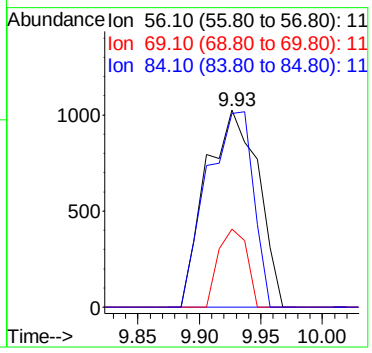


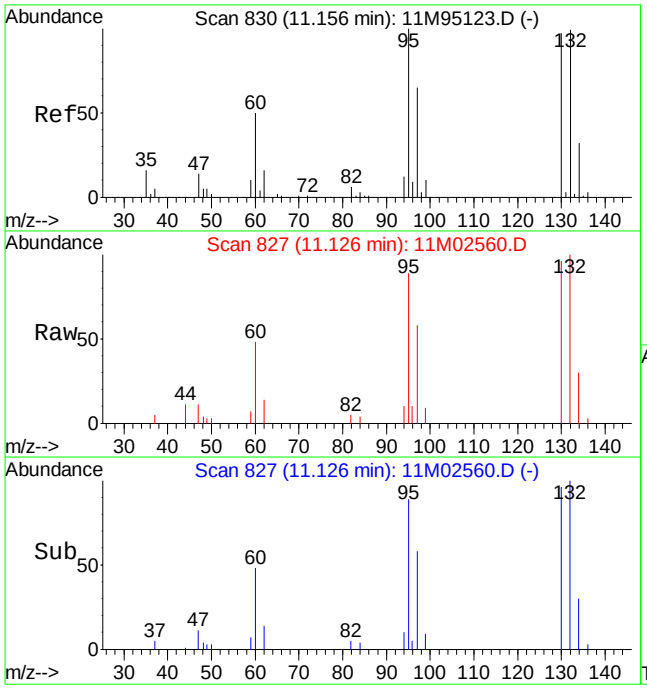


#39
Cyclohexane
Concen: 0.20 ug/L
RT: 9.93 min Scan# 711
Delta R.T. 0.00 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion: 56 Resp: 3024

Ion	Ratio	Lower	Upper
56	100		
69	21.7	17.0	39.6
84	87.9	48.1	112.1

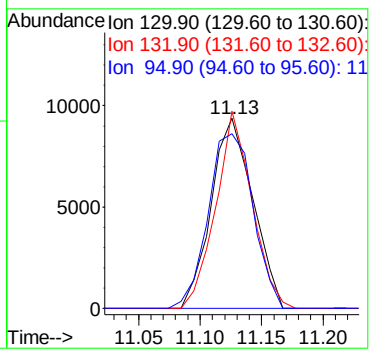


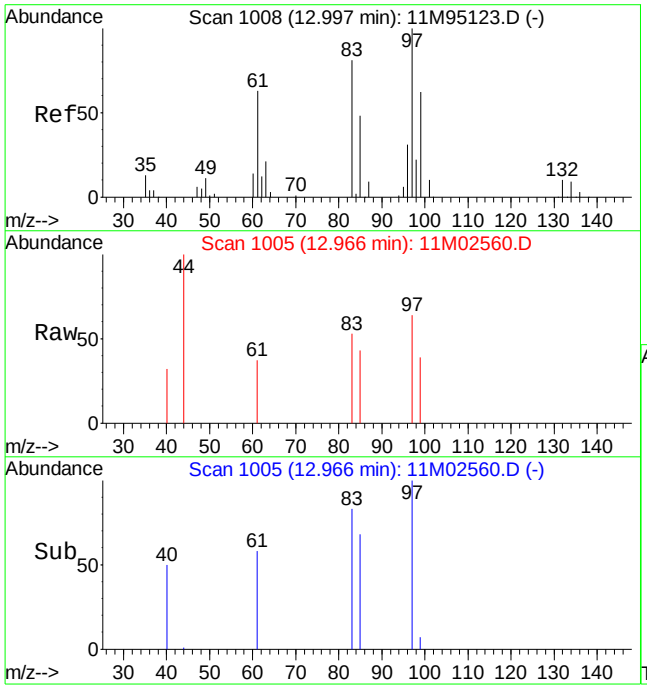


#46
Trichloroethene
Concen: 1.86 ug/L
RT: 11.13 min Scan# 827
Delta R.T. 0.00 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion:130 Resp: 22093

Ion	Ratio	Lower	Upper
130	100		
132	90.3	58.0	135.4
95	99.3	58.3	135.9

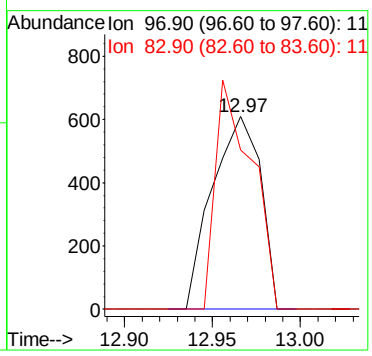


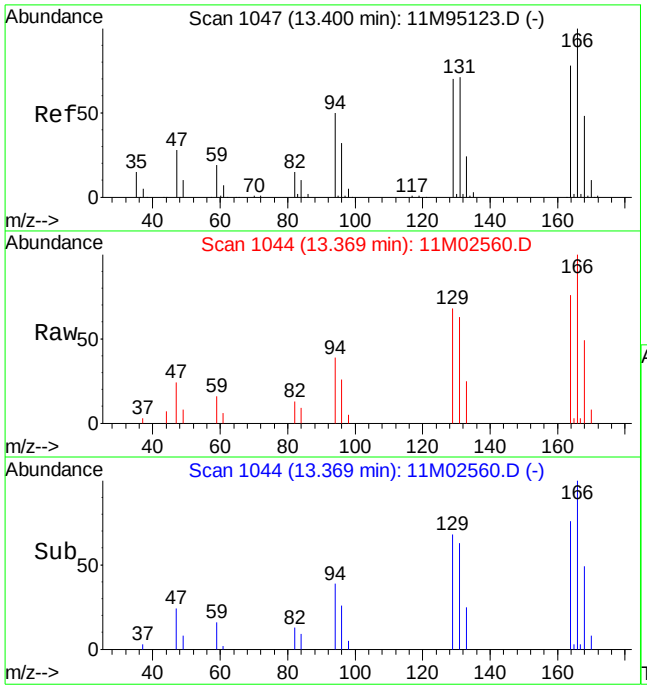


#61
1,1,2-Trichloroethane
Concen: 0.14 ug/L
RT: 12.97 min Scan# 1005
Delta R.T. 0.00 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion: 97 Resp: 1165

Ion	Ratio	Lower	Upper
97	100		
83	89.4	49.8	116.2

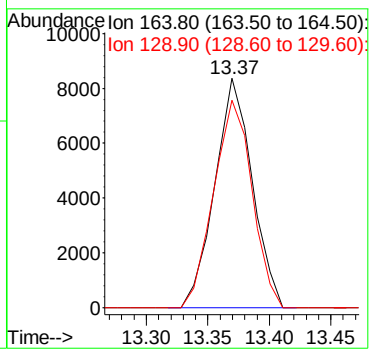




#64
Tetrachloroethene
Concen: 1.79 ug/L
RT: 13.37 min Scan# 1044
Delta R.T. 0.00 min
Lab File: 11M02560.D
Acq: 18 Jul 2014 00:28

Tgt Ion:164 Resp: 17673

Ion	Ratio	Lower	Upper
164	100		
129	93.0	59.7	139.3



Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964798.D Vial: 17
Acq On : 19 Jul 2014 00:32 Operator: FJB
Sample : L14070607-16 TB B 826-LOW Inst : HPMS9
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 09:26:45 2014 Quant Results File: 8260WTR.RES

Quant Method : K:\ORGANICS\V...\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

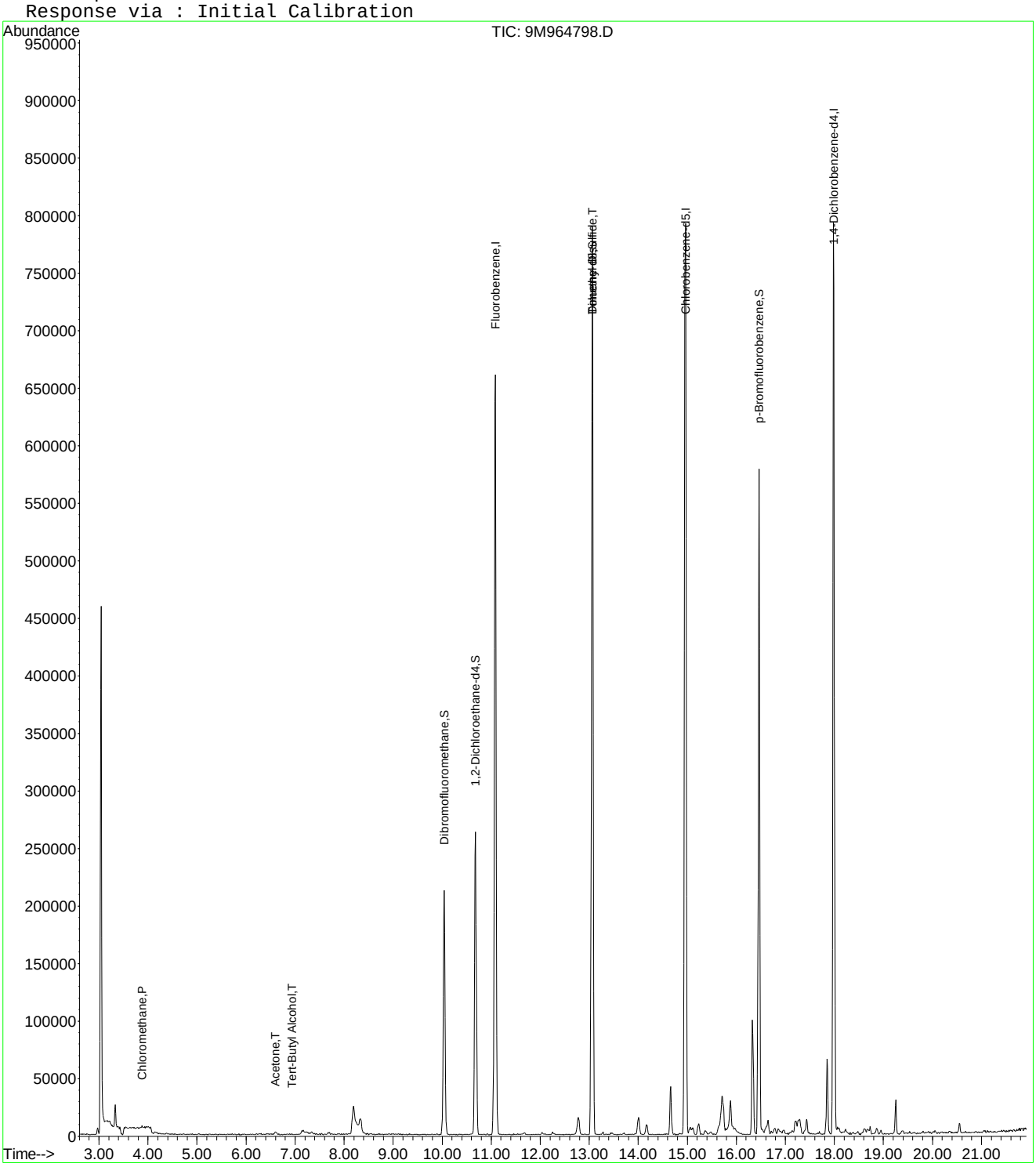
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	789318	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	551457	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	274271	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.04	111	181345	21.6636 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 86.64%		
43) 1,2-Dichloroethane-d4	10.68	65	231023	20.6351 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 82.56%		
58) Toluene-d8	13.06	98	681033	24.9967 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 100.00%		
79) p-Bromofluorobenzene	16.46	95	250558	25.3202 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.28%		
Target Compounds					Qvalue
3) Chloromethane	3.88	50	2546	0.1435 ug/L #	1
13) Acetone	6.60	43	3897	1.1732 ug/L	93
15) Tert-Butyl Alcohol	6.94	59	300	0.2478 ug/L #	60
56) Dimethyl Disulfide	13.06	94	17458	1.1700 ug/L #	28

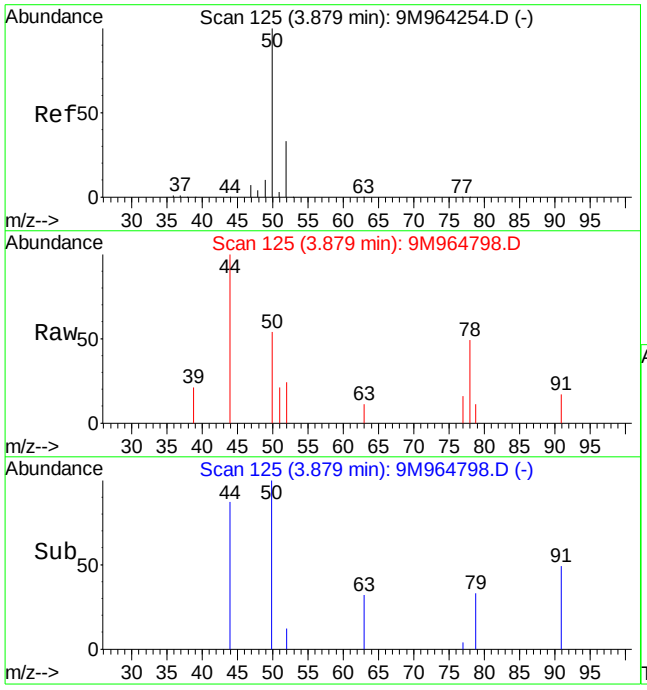
(#) = qualifier out of range (m) = manual integration
9M964798.D 8260WTR.M Tue Jul 22 09:26:48 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964798.D Vial: 17
Acq On : 19 Jul 2014 00:32 Operator: FJB
Sample : L14070607-16 TB B 826-LOW Inst : HPMS9
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 9:26 2014 Quant Results File: 8260WTR.RES

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration

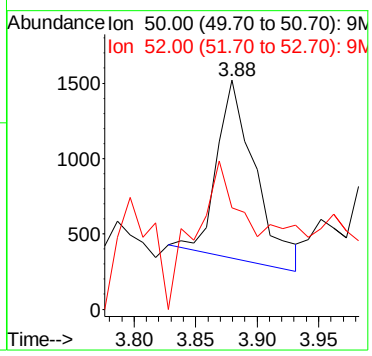


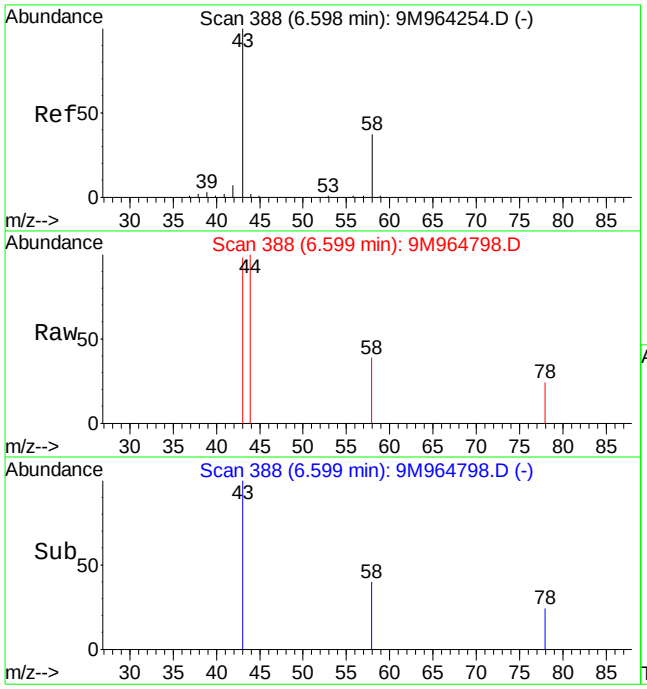


#3
Chloromethane
Concen: 0.14 ug/L
RT: 3.88 min Scan# 125
Delta R.T. 0.00 min
Lab File: 9M964798.D
Acq: 19 Jul 2014 00:32

Tgt Ion: 50 Resp: 2546

Ion	Ratio	Lower	Upper
50	100		
52	107.2	20.2	47.2#

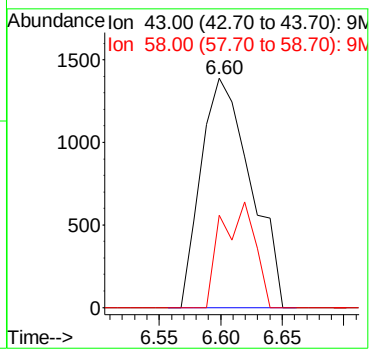


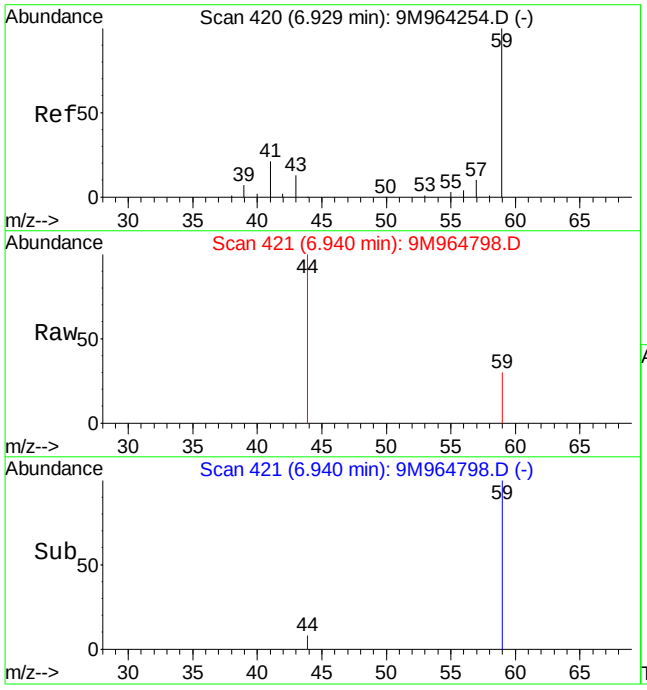


#13
Acetone
Concen: 1.17 ug/L
RT: 6.60 min Scan# 388
Delta R.T. 0.00 min
Lab File: 9M964798.D
Acq: 19 Jul 2014 00:32

Tgt Ion: 43 Resp: 3897

Ion	Ratio	Lower	Upper
43	100		
58	31.3	21.4	49.8

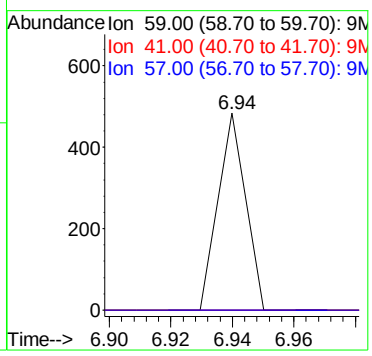


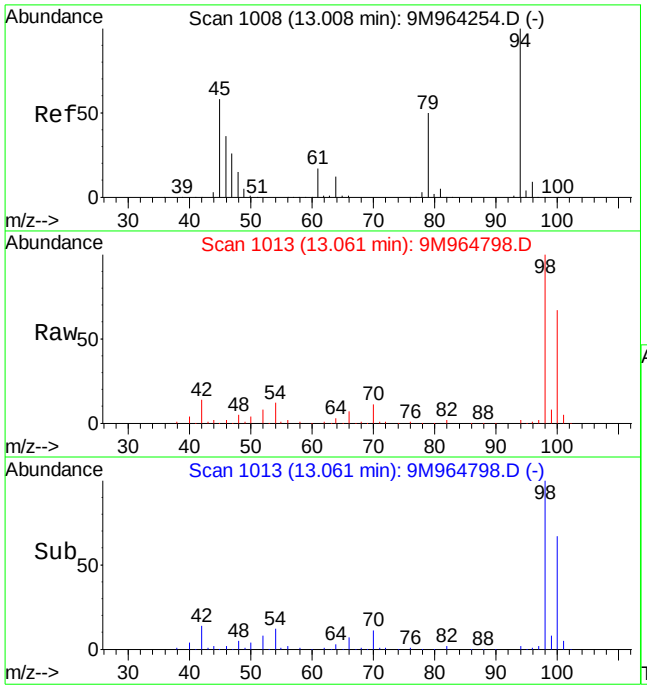


#15
Tert-Butyl Alcohol
Concen: 0.25 ug/L
RT: 6.94 min Scan# 421
Delta R.T. 0.01 min
Lab File: 9M964798.D
Acq: 19 Jul 2014 00:32

Tgt Ion: 59 Resp: 300

Ion	Ratio	Lower	Upper
59	100		
41	0.0	13.0	30.2#
57	0.0	6.1	14.3#

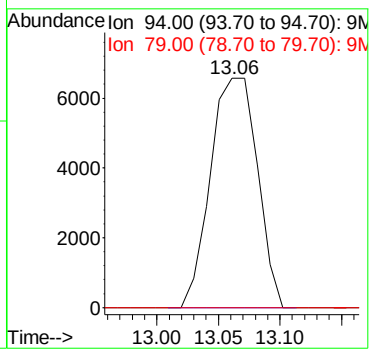




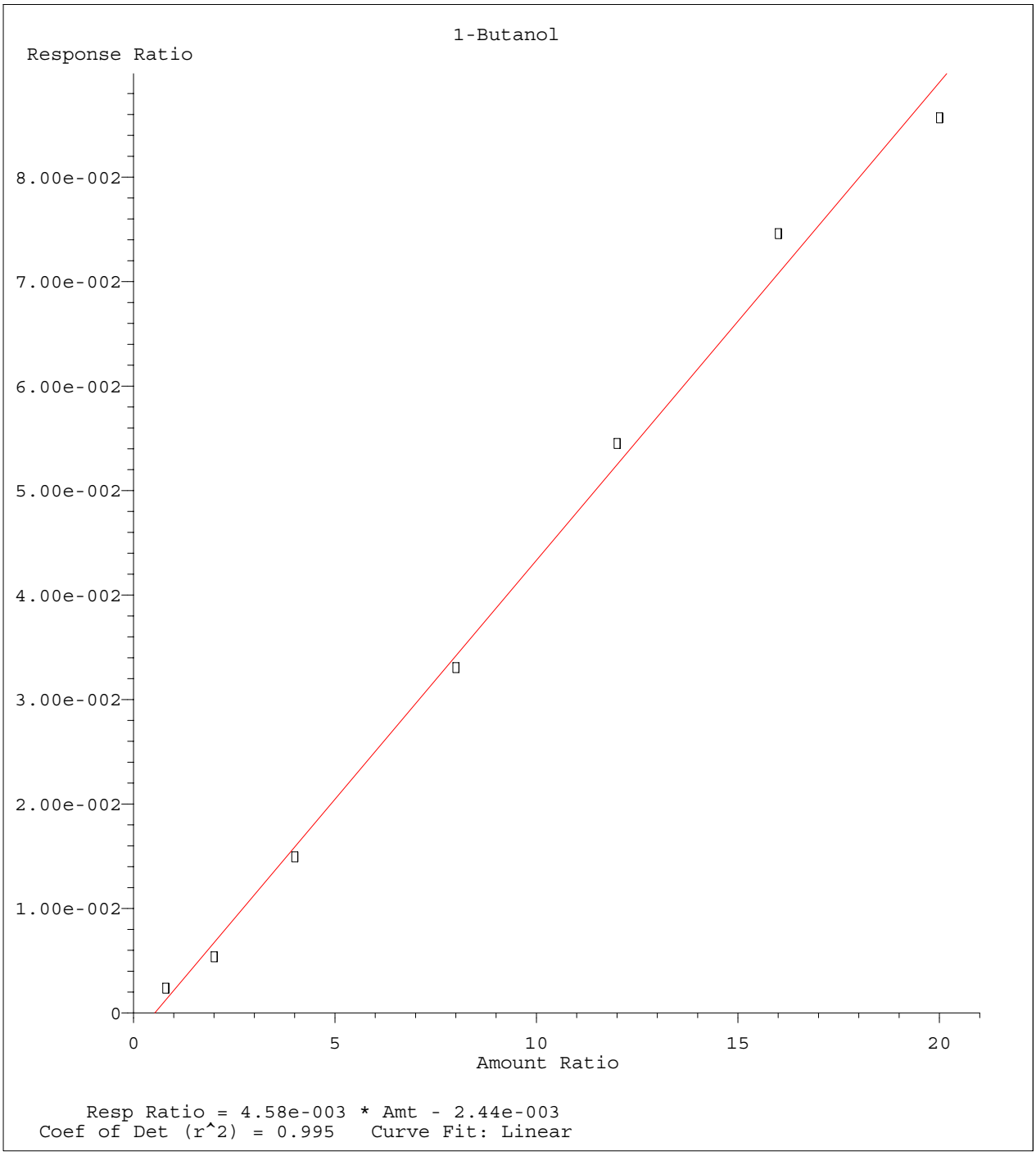
#56
Dimethyl Disulfide
Concen: 1.17 ug/L
RT: 13.06 min Scan# 1013
Delta R.T. 0.05 min
Lab File: 9M964798.D
Acq: 19 Jul 2014 00:32

Tgt Ion: 94 Resp: 17458

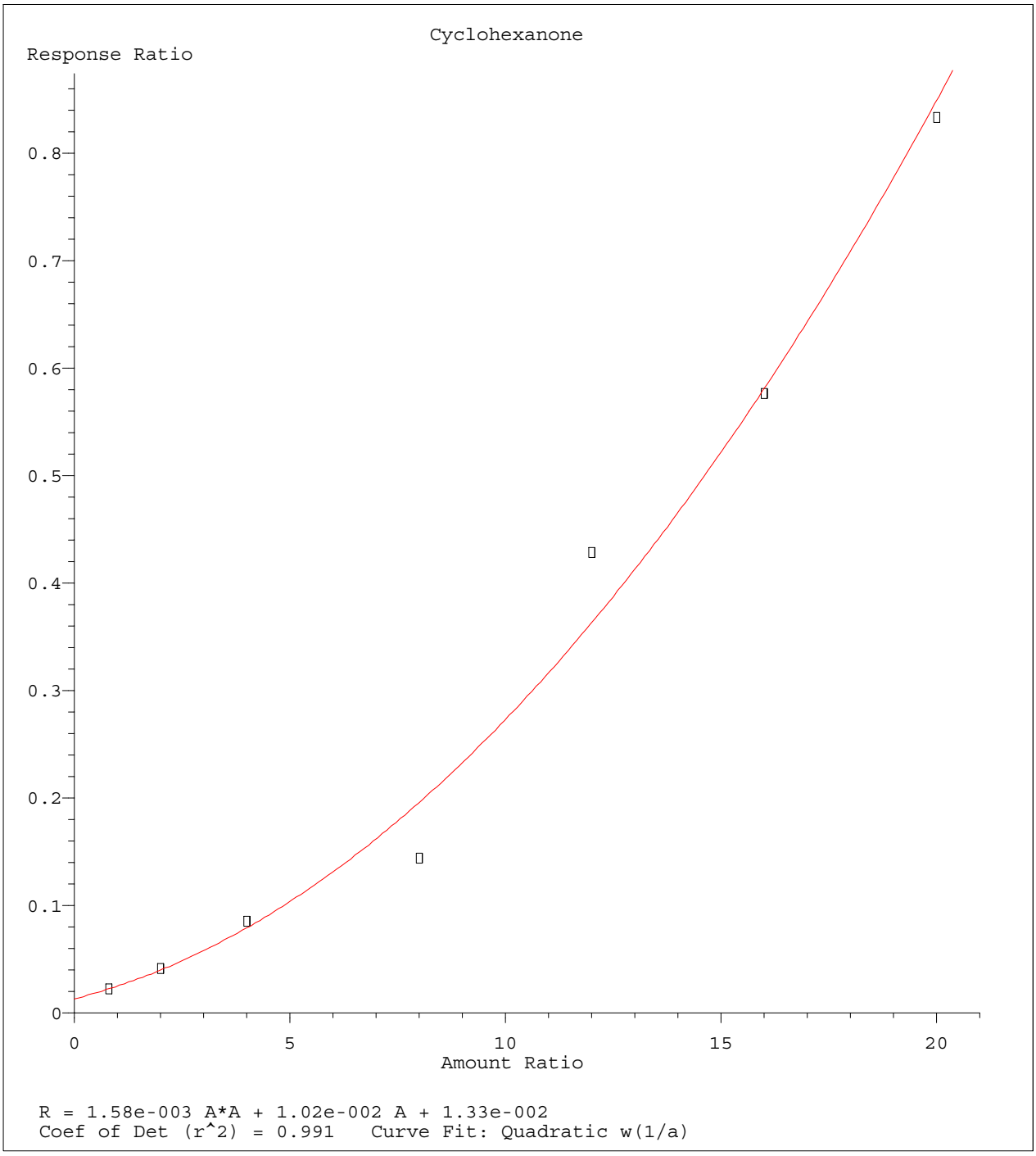
Ion	Ratio	Lower	Upper
94	100		
79	0.0	29.8	69.6#



2.1.1.4 Standards Data



Method Name: C:\MSDCHEM\1\METHODS\A9WTR.M
Calibration Table Last Updated: Wed Dec 18 14:24:41 2013



Method Name: C:\MSDCHEM\1\METHODS\A9WTR.M
Calibration Table Last Updated: Wed Dec 18 14:24:41 2013

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02150.D Vial: 3
Acq On : 27 Jun 2014 15:29 Operator: FJB
Sample : WG482009-03 0.4ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:03 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	950869	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	703012	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.09	152	335996	25.00 ug/L	-0.01

System Monitoring Compounds					
37) Dibromofluoromethane	0.00	111	0	0.0000 ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#	
43) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#	
57) Toluene-d8	12.50	98	217	0.0055 ug/L	-0.01
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.04%#	
78) p-Bromofluorobenzene	0.00	95	0	0.0000 ug/L	
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.00%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	3517	0.3100 ug/L #	84
3) Chloromethane	3.73	50	9804	0.6164 ug/L #	1
4) Vinyl Chloride	3.98	62	5615	0.3068 ug/L	94
5) 1,3-Butadiene	4.03	54	5374	0.3441 ug/L	81
6) Bromomethane	4.88	94	4501	0.4871 ug/L	98
7) Chloroethane	5.06	64	2762	0.2947 ug/L	90
8) Trichlorofluoromethane	5.51	101	7436	0.3518 ug/L	94
10) Isoprene	6.07	67	5602	0.2975 ug/L	88
12) 1,1,2-Trichloro-1,2,2-Trif	6.29	101	4289	0.3427 ug/L	99
13) Acetone	6.38	43	1473	0.5065 ug/L #	46
14) 1,1-Dichloroethene	6.60	61	6814	0.3194 ug/L	81
16) Dimethyl Sulfide	6.84	62	5256	0.3613 ug/L	85
17) Iodomethane	7.10	142	1585	0.1698 ug/L #	53
18) Methyl acetate	7.10	43	2362	0.2893 ug/L #	62
19) Methylene Chloride	7.35	84	5797	0.4033 ug/L	90
20) Carbon Disulfide	7.40	76	15388	0.5514 ug/L #	76
22) Methyl Tert Butyl Ether	7.57	73	11106	0.4078 ug/L	92
23) trans-1,2-Dichloroethene	7.79	96	5335	0.3909 ug/L	69
24) n-Hexane	7.86	57	5539	0.4913 ug/L #	82
26) Vinyl Acetate	8.34	43	2249	0.1892 ug/L #	76
27) 1,1-Dichloroethane	8.39	63	7840	0.3118 ug/L	99
29) 2-Butanone	8.91	43	1342	0.3343 ug/L #	54
31) 2,2-Dichloropropane	9.13	77	7810	0.3988 ug/L	96
32) cis-1,2-Dichloroethene	9.19	96	5724	0.3828 ug/L	78
33) Chloroform	9.39	83	8500	0.3389 ug/L	94
34) 1-Bromopropane	9.51	122	430	0.1783 ug/L	99
35) Bromochloromethane	9.61	130	2562	0.2835 ug/L	89
38) 1,1,1-Trichloroethane	9.88	97	8330	0.3941 ug/L #	82
39) Cyclohexane	9.92	56	7082	0.2951 ug/L	89
40) 1,1-Dichloropropene	10.08	75	6576	0.4156 ug/L	92
41) Carbon Tetrachloride	10.22	117	6642	0.3547 ug/L	94
44) 1,2-Dichloroethane	10.38	62	6911	0.4116 ug/L	88
45) Benzene	10.42	78	21152	0.4495 ug/L	99
46) Trichloroethene	11.13	130	6372	0.4170 ug/L	93
47) Methylcyclohexane	11.21	83	7192	0.4148 ug/L	94
48) 1,2-Dichloropropane	11.32	63	4453	0.3321 ug/L	97
50) Bromodichloromethane	11.61	83	6516	0.3731 ug/L #	91
51) Dibromomethane	11.69	93	2470	0.3621 ug/L	89
52) 2-Chloroethyl Vinyl Ether	11.88	63	2199	0.4215 ug/L	89
53) 4-Methyl-2-Pentanone	11.91	58	571	0.2011 ug/L	92

(#) = qualifier out of range (m) = manual integration
11M02150.D 8260WTR.M Mon Jun 30 09:55:04 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02150.D Vial: 3
Acq On : 27 Jun 2014 15:29 Operator: FJB
Sample : WG482009-03 0.4ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:03 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

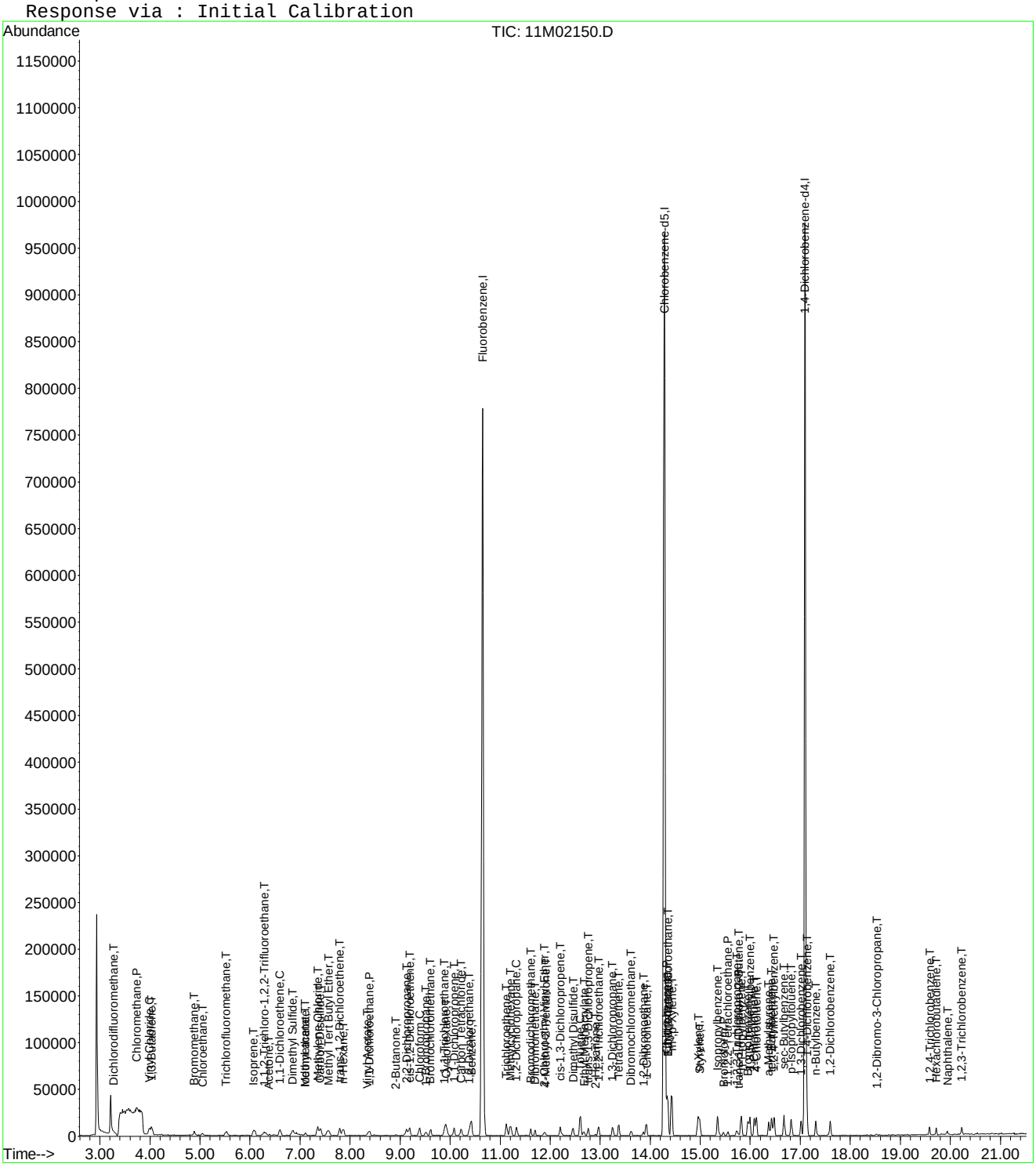
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
54)	cis-1,3-Dichloropropene	12.20	75	6498	0.3771 ug/L		89
55)	Dimethyl Disulfide	12.46	79	2848	0.2766 ug/L		93
58)	Toluene	12.60	91	20827	0.4267 ug/L		95
59)	Ethyl Methacrylate	12.68	69	4034	0.4204 ug/L		92
60)	trans-1,3-Dichloropropene	12.76	75	5608	0.3717 ug/L		99
61)	1,1,2-Trichloroethane	12.97	97	3929	0.4370 ug/L		93
62)	2-Hexanone	12.90	43	1348	0.2763 ug/L	#	4
63)	1,3-Dichloropropane	13.25	76	7195	0.4433 ug/L		88
64)	Tetrachloroethene	13.37	164	4376	0.4152 ug/L		95
65)	Dibromochloromethane	13.62	129	4586	0.4467 ug/L		99
66)	1,2-Dibromoethane	13.87	107	3576	0.3989 ug/L		80
67)	1-Chlorohexane	13.93	91	5900	0.3987 ug/L		90
68)	Chlorobenzene	14.33	112	14249	0.5440 ug/L		98
69)	1,1,1,2-Tetrachloroethane	14.35	131	5193	0.3814 ug/L		87
70)	Ethylbenzene	14.35	106	7302	0.5149 ug/L		86
71)	m-,p-Xylene	14.43	106	18057	1.0932 ug/L		96
72)	o-Xylene	14.96	106	8733	0.3703 ug/L		96
73)	Styrene	14.99	104	11570	0.3740 ug/L		87
74)	Bromoform	15.47	173	2458	0.3963 ug/L		88
75)	Isopropylbenzene	15.34	105	20152	0.5019 ug/L		97
77)	1,1,2,2-Tetrachloroethane	15.55	83	3831	0.4266 ug/L		95
79)	1,2,3-Trichloropropane	15.74	110	1477	0.5253 ug/L		72
80)	trans-1,4-Dichloro-2-Buten	15.77	53	745	0.3290 ug/L	#	1
81)	n-Propylbenzene	15.82	91	24128	0.5960 ug/L		95
82)	Bromobenzene	15.95	156	5994	0.4579 ug/L		91
83)	1,3,5-Trimethylbenzene	16.00	105	15863	0.4260 ug/L		99
84)	2-Chlorotoluene	16.08	91	15510	0.5861 ug/L		93
85)	4-Chlorotoluene	16.12	91	15682	0.6974 ug/L	#	40
86)	a-Methylstyrene	16.37	118	6823	0.3998 ug/L		86
87)	tert-Butylbenzene	16.42	134	3474	0.3431 ug/L		93
88)	1,2,4-Trimethylbenzene	16.47	105	15619	0.4185 ug/L		100
89)	sec-Butylbenzene	16.68	105	20558	0.5819 ug/L		97
90)	p-Isopropyltoluene	16.82	119	15627	0.5361 ug/L		96
91)	1,3-Dichlorobenzene	17.02	146	10561	0.5655 ug/L		98
92)	1,4-Dichlorobenzene	17.13	146	11237	0.5430 ug/L		90
93)	n-Butylbenzene	17.31	91	11987	0.4882 ug/L		92
94)	1,2-Dichlorobenzene	17.60	146	9267	0.3938 ug/L		94
95)	1,2-Dibromo-3-Chloropropan	18.53	75	426	0.3083 ug/L	#	52
96)	1,2,4-Trichlorobenzene	19.59	180	4519	0.4452 ug/L		80
97)	Hexachlorobutadiene	19.72	225	2615	0.4794 ug/L		92
98)	Naphthalene	19.95	128	4952	0.2370 ug/L	#	92
99)	1,2,3-Trichlorobenzene	20.22	180	3396	0.2726 ug/L		81

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02150.D Vial: 3
Acq On : 27 Jun 2014 15:29 Operator: FJB
Sample : WG482009-03 0.4ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:55 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration



11M02150.D 8260WTR.M Mon Jun 30 09:55:12 2014 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02151.D Vial: 4
Acq On : 27 Jun 2014 16:07 Operator: FJB
Sample : WG482009-04 1ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:14 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	954872	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	701265	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.09	152	338783	25.00 ug/L	-0.01

System Monitoring Compounds					
37) Dibromofluoromethane	9.67	111	5083	0.3877 ug/L	0.01
Spiked Amount 25.000	Range 86 - 118		Recovery =	1.56%#	
43) 1,2-Dichloroethane-d4	10.27	65	4944	0.3217 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	1.28%#	
57) Toluene-d8	12.50	98	19800	0.5070 ug/L	-0.01
Spiked Amount 25.000	Range 88 - 110		Recovery =	2.04%#	
78) p-Bromofluorobenzene	15.67	95	7049	0.4531 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	1.80%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	8995	0.7896 ug/L	97
3) Chloromethane	3.74	50	22428	1.4042 ug/L #	71
4) Vinyl Chloride	3.98	62	15015	0.8169 ug/L	97
5) 1,3-Butadiene	4.03	54	11767	0.7502 ug/L	86
6) Bromomethane	4.88	94	10114	1.0900 ug/L	98
7) Chloroethane	5.04	64	8010	0.8512 ug/L	94
8) Trichlorofluoromethane	5.52	101	17162	0.8085 ug/L	100
9) Diethyl ether	6.04	59	37509	3.8836 ug/L	94
10) Isoprene	6.08	67	14050	0.7429 ug/L	81
11) Acrolein	6.28	56	2067	1.2674 ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	6.28	101	10995	0.8749 ug/L	97
13) Acetone	6.38	43	2332	0.7985 ug/L #	77
14) 1,1-Dichloroethene	6.60	61	14953	0.6980 ug/L	80
16) Dimethyl Sulfide	6.86	62	11472	0.7854 ug/L	86
17) Iodomethane	7.10	142	3281	0.3500 ug/L	90
18) Methyl acetate	7.10	43	5866	0.7154 ug/L #	95
19) Methylene Chloride	7.35	84	13043	0.9036 ug/L	75
20) Carbon Disulfide	7.40	76	34135	1.2180 ug/L	91
21) Acrylonitrile	7.52	53	5898	1.6783 ug/L	97
22) Methyl Tert Butyl Ether	7.56	73	25525	0.9334 ug/L	94
23) trans-1,2-Dichloroethene	7.80	96	12141	0.8858 ug/L	81
24) n-Hexane	7.85	57	13481	1.1908 ug/L #	93
25) Diisopropyl ether	8.18	45	169938	3.8869 ug/L	96
26) Vinyl Acetate	8.34	43	6163	0.5162 ug/L #	81
27) 1,1-Dichloroethane	8.40	63	19827	0.7851 ug/L	95
28) Ethyl-Tert-Butyl ether	8.74	59	154605	4.0648 ug/L	95
29) 2-Butanone	8.92	43	2900	0.7193 ug/L	91
30) Propionitrile	9.03	54	4424	3.5201 ug/L	92
31) 2,2-Dichloropropane	9.13	77	16227	0.8251 ug/L	96
32) cis-1,2-Dichloroethene	9.19	96	12418	0.8269 ug/L	76
33) Chloroform	9.39	83	21073	0.8368 ug/L	99
34) 1-Bromopropane	9.50	122	1803	0.7443 ug/L	94
35) Bromochloromethane	9.61	130	7200	0.7935 ug/L	85
36) Tetrahydrofuran	9.65	42	8369	3.2085 ug/L	84
38) 1,1,1-Trichloroethane	9.89	97	17779	0.8376 ug/L	97
39) Cyclohexane	9.93	56	15920	0.6605 ug/L	84
40) 1,1-Dichloropropene	10.08	75	14926	0.9394 ug/L	95
41) Carbon Tetrachloride	10.23	117	14556	0.7742 ug/L	91
42) Tert-Amyl-Methyl ether	10.17	73	133358	4.4812 ug/L	96
44) 1,2-Dichloroethane	10.38	62	14265	0.8460 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02151.D Vial: 4
Acq On : 27 Jun 2014 16:07 Operator: FJB
Sample : WG482009-04 1ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:14 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

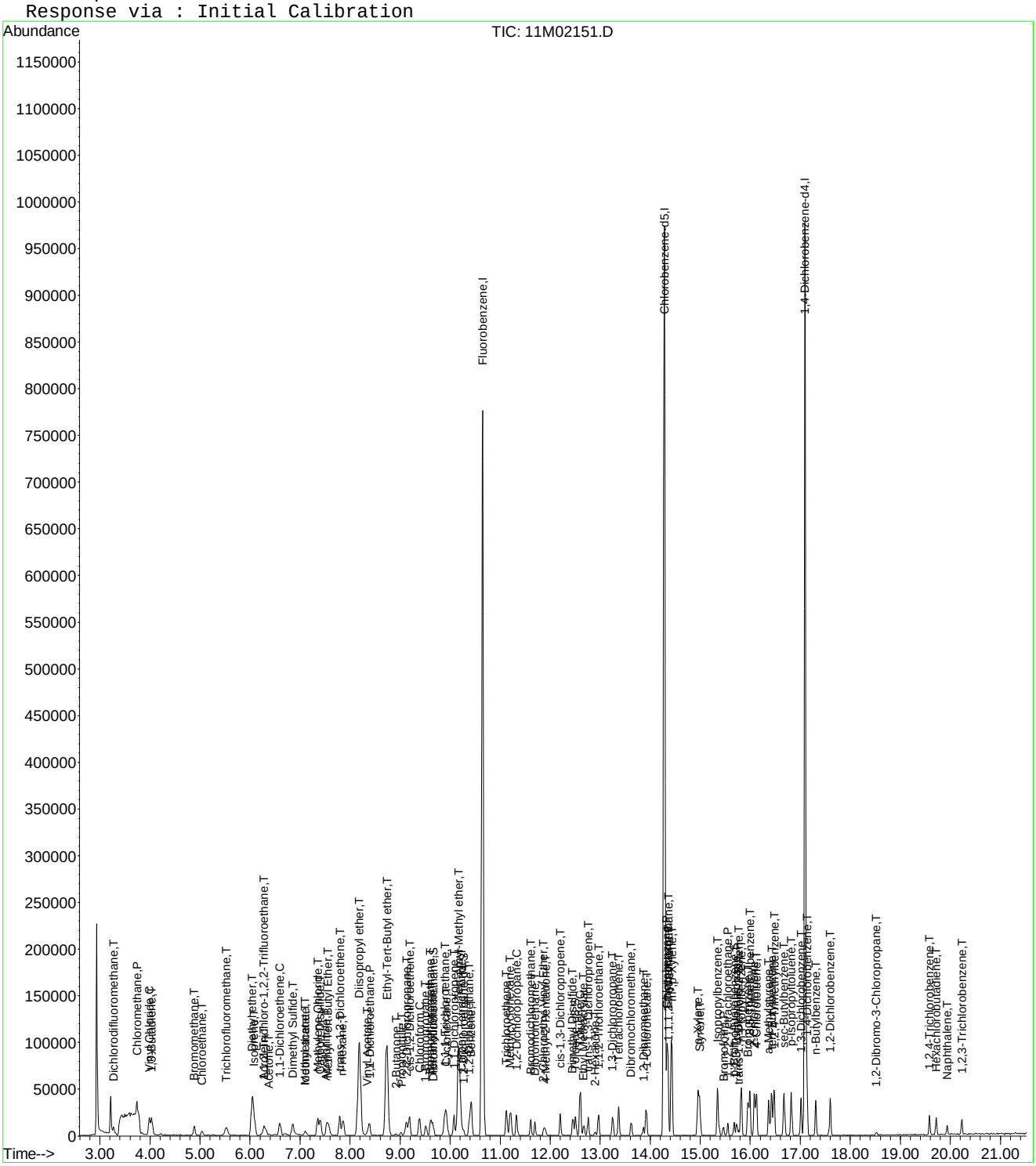
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	Benzene	10.41	78	45519	0.9633 ug/L		100
46)	Trichloroethene	11.13	130	12989	0.8464 ug/L		97
47)	Methylcyclohexane	11.20	83	16415	0.9429 ug/L		92
48)	1,2-Dichloropropane	11.33	63	10607	0.7876 ug/L		100
50)	Bromodichloromethane	11.61	83	14415	0.8219 ug/L		96
51)	Dibromomethane	11.69	93	6331	0.9243 ug/L		98
52)	2-Chloroethyl Vinyl Ether	11.87	63	4715	0.9000 ug/L		96
53)	4-Methyl-2-Pentanone	11.91	58	2303	0.8077 ug/L	#	71
54)	cis-1,3-Dichloropropene	12.20	75	16024	0.9259 ug/L		98
55)	Dimethyl Disulfide	12.45	79	6618	0.6401 ug/L		99
58)	Toluene	12.60	91	47660	0.9790 ug/L		96
59)	Ethyl Methacrylate	12.67	69	8227	0.8595 ug/L		84
60)	trans-1,3-Dichloropropene	12.76	75	12889	0.8565 ug/L		98
61)	1,1,2-Trichloroethane	12.97	97	8861	0.9879 ug/L		99
62)	2-Hexanone	12.89	43	3567	0.7330 ug/L	#	46
63)	1,3-Dichloropropane	13.24	76	14915	0.9212 ug/L		94
64)	Tetrachloroethene	13.37	164	9761	0.9285 ug/L		95
65)	Dibromochloromethane	13.62	129	10274	1.0032 ug/L		94
66)	1,2-Dibromoethane	13.87	107	8979	1.0041 ug/L		90
67)	1-Chlorohexane	13.93	91	13518	0.9157 ug/L		83
68)	Chlorobenzene	14.33	112	33240	1.2722 ug/L		98
69)	1,1,1,2-Tetrachloroethane	14.36	131	10591	0.7798 ug/L		100
70)	Ethylbenzene	14.35	106	15640	1.1056 ug/L		83
71)	m-,p-Xylene	14.43	106	39515	2.3983 ug/L		98
72)	o-Xylene	14.95	106	19651	0.8353 ug/L		95
73)	Styrene	14.99	104	27306	0.8850 ug/L		95
74)	Bromoform	15.47	173	5966	0.9642 ug/L		100
75)	Isopropylbenzene	15.34	105	48091	1.2007 ug/L		99
77)	1,1,2,2-Tetrachloroethane	15.55	83	9042	0.9986 ug/L		97
79)	1,2,3-Trichloropropane	15.73	110	2677	0.9443 ug/L		94
80)	trans-1,4-Dichloro-2-Buten	15.77	53	1647	0.7213 ug/L	#	8
81)	n-Propylbenzene	15.82	91	54985	1.3470 ug/L		99
82)	Bromobenzene	15.95	156	13046	0.9885 ug/L		83
83)	1,3,5-Trimethylbenzene	16.00	105	39133	1.0422 ug/L		99
84)	2-Chlorotoluene	16.08	91	35439	1.3282 ug/L		86
85)	4-Chlorotoluene	16.12	91	35217m	1.5532 ug/L		
86)	a-Methylstyrene	16.37	118	15889	0.9233 ug/L		99
87)	tert-Butylbenzene	16.43	134	8462	0.8288 ug/L		83
88)	1,2,4-Trimethylbenzene	16.48	105	36949	0.9818 ug/L		96
89)	sec-Butylbenzene	16.68	105	46306	1.2999 ug/L		99
90)	p-Isopropyltoluene	16.82	119	37842	1.2875 ug/L		99
91)	1,3-Dichlorobenzene	17.02	146	24210	1.2856 ug/L		91
92)	1,4-Dichlorobenzene	17.13	146	22571	1.0816 ug/L	#	72
93)	n-Butylbenzene	17.31	91	28801	1.1633 ug/L		98
94)	1,2-Dichlorobenzene	17.60	146	22612	0.9531 ug/L		92
95)	1,2-Dibromo-3-Chloropropan	18.52	75	1192	0.8557 ug/L		98
96)	1,2,4-Trichlorobenzene	19.58	180	9458	0.9241 ug/L		91
97)	Hexachlorobutadiene	19.72	225	5337	0.9703 ug/L		98
98)	Naphthalene	19.93	128	11235	0.5333 ug/L	#	92
99)	1,2,3-Trichlorobenzene	20.23	180	8210	0.6536 ug/L		87

(#) = qualifier out of range (m) = manual integration
11M02151.D 8260WTR.M Mon Jun 30 09:59:46 2014 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02151.D Vial: 4
Acq On : 27 Jun 2014 16:07 Operator: FJB
Sample : WG482009-04 1ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:59 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration

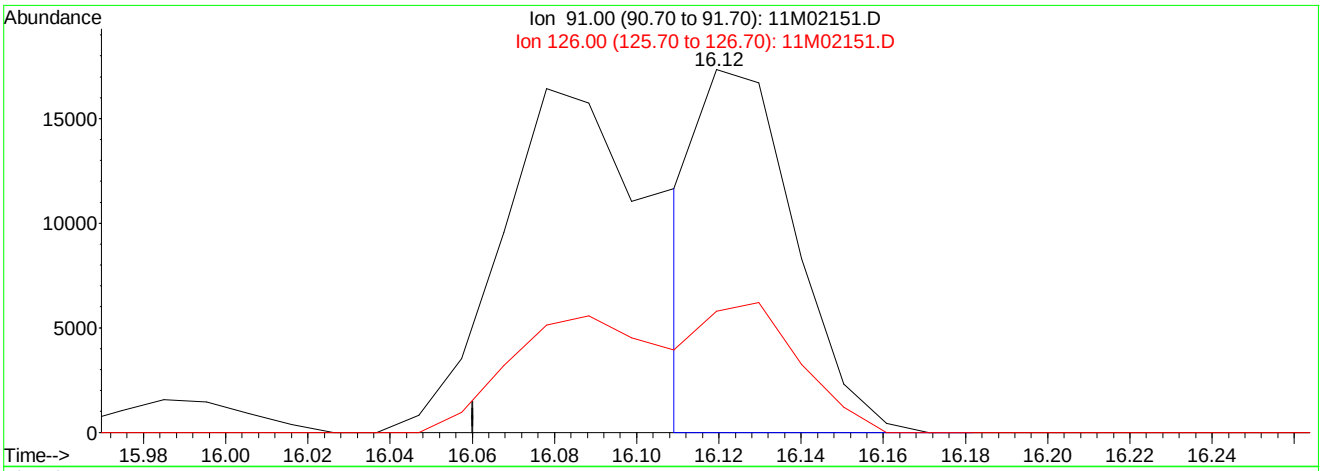


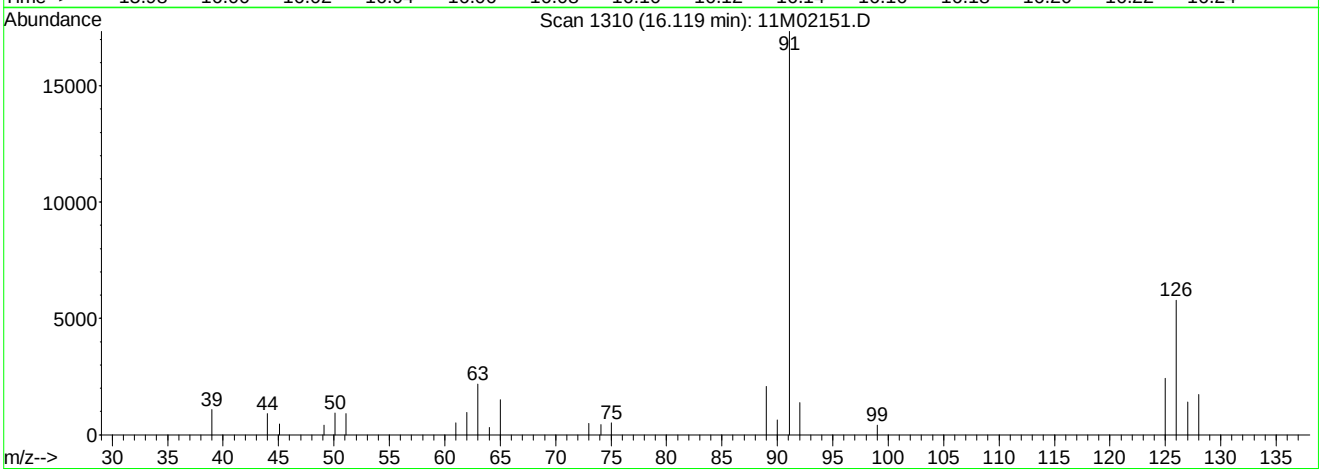
11M02151.D 8260WTR.M Mon Jun 30 09:59:47 2014 Page 3

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\062714\11M02151.D Vial: 4
Acq On : 27 Jun 2014 16:07 Operator: FJB
Sample : WG482009-04 1ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:58 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Multiple Level Calibration





TIC: 11M02151.D

(85) 4-Chlorotoluene (T)

16.12min 1.23ug/L

response 27994

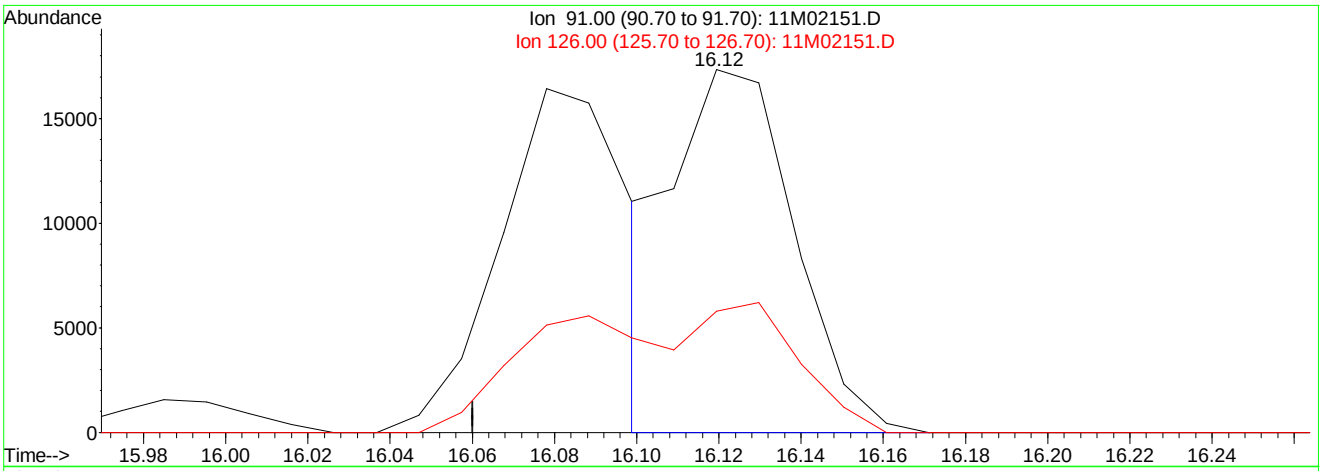
Ion	Exp%	Act%
91.00	100	100
126.00	34.70	36.44
0.00	0.00	0.00
0.00	0.00	0.00

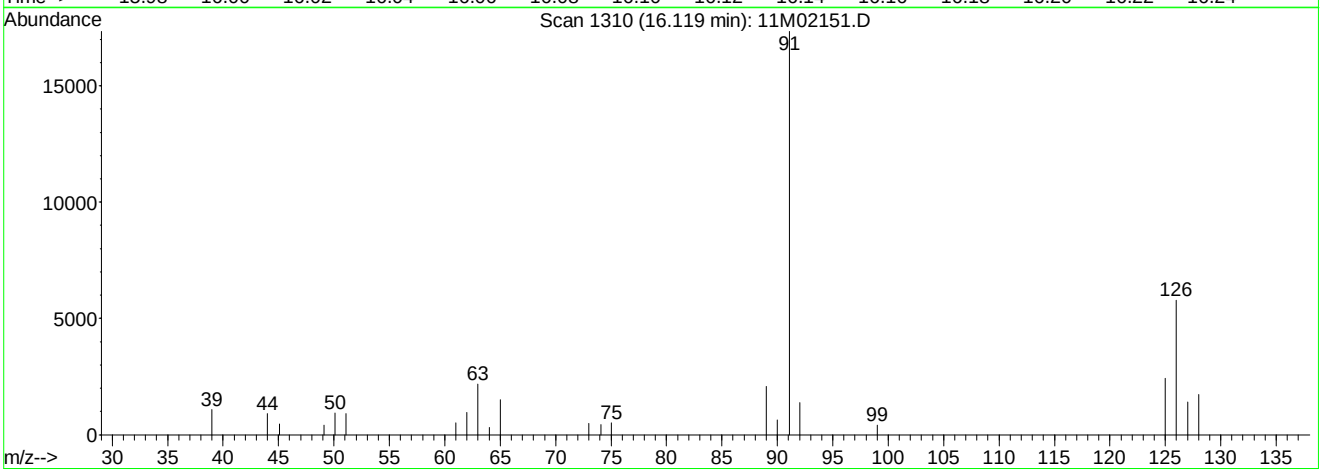
11M02151.D 8260WTR.M Mon Jun 30 09:59:12 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\062714\11M02151.D Vial: 4
Acq On : 27 Jun 2014 16:07 Operator: FJB
Sample : WG482009-04 1ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:59 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Multiple Level Calibration





TIC: 11M02151.D

(85) 4-Chlorotoluene (T)

16.12min 1.55ug/L mint

response 35217

Ion	Exp%	Act%
91.00	100	100
126.00	34.70	28.96
0.00	0.00	0.00
0.00	0.00	0.00

11M02151.D 8260WTR.M Mon Jun 30 .4

Analyst: 06/30/2014 14:36 Supervisor: 06/30/2014 15:39

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\062714\11M02152.D Vial: 5
Acq On : 27 Jun 2014 16:37 Operator: FJB
Sample : WG482009-02 0.3ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 16:59:07 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Fri Jun 27 10:17:02 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	938815	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	693419	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.10	152	327100	25.00 ug/L	0.00

System Monitoring Compounds					
37) Dibromofluoromethane	0.00	111	0	0.0000 ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#	
43) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#	
57) Toluene-d8	0.00	98	0	0.0000 ug/L	
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.00%#	
78) p-Bromofluorobenzene	0.00	95	0	0.0000 ug/L	
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.00%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	2261	0.2019 ug/L #	70
3) Chloromethane	3.73	50	11810	0.7520 ug/L #	50
4) Vinyl Chloride	3.98	62	3938	0.2179 ug/L	91
5) 1,3-Butadiene	4.03	54	3337	0.2164 ug/L #	66
6) Bromomethane	4.88	94	3123	0.3423 ug/L	83
7) Chloroethane	5.04	64	2089	0.2258 ug/L	79
8) Trichlorofluoromethane	5.52	101	4759	0.2280 ug/L	97
10) Isoprene	6.09	67	3399	0.1828 ug/L	94
12) 1,1,2-Trichloro-1,2,2-Trif	6.30	101	2946	0.2384 ug/L	77
14) 1,1-Dichloroethene	6.59	61	4422	0.2099 ug/L	86
16) Dimethyl Sulfide	6.84	62	3639	0.2534 ug/L	83
18) Methyl acetate	7.11	43	1262	0.1565 ug/L #	62
19) Methylene Chloride	7.35	84	4776	0.3365 ug/L	80
20) Carbon Disulfide	7.40	76	10277	0.3730 ug/L #	85
22) Methyl Tert Butyl Ether	7.56	73	8268	0.3075 ug/L #	72
23) trans-1,2-Dichloroethene	7.80	96	3138	0.2329 ug/L	95
24) n-Hexane	7.86	57	3576	0.3213 ug/L #	68
27) 1,1-Dichloroethane	8.40	63	5525	0.2225 ug/L #	91
29) 2-Butanone	8.91	43	820	0.2069 ug/L #	54
31) 2,2-Dichloropropane	9.12	77	5146	0.2661 ug/L	91
32) cis-1,2-Dichloroethene	9.18	96	4005	0.2712 ug/L	78
33) Chloroform	9.39	83	5819	0.2350 ug/L	91
35) Bromochloromethane	9.61	130	2202	0.2468 ug/L	83
38) 1,1,1-Trichloroethane	9.89	97	4948	0.2371 ug/L #	95
39) Cyclohexane	9.93	56	4861	0.2051 ug/L	89
40) 1,1-Dichloropropene	10.08	75	5129	0.3283 ug/L	76
41) Carbon Tetrachloride	10.23	117	4581	0.2478 ug/L #	93
44) 1,2-Dichloroethane	10.37	62	3957	0.2387 ug/L	90
45) Benzene	10.42	78	14635	0.3150 ug/L	94
46) Trichloroethene	11.13	130	4286	0.2841 ug/L	94
47) Methylcyclohexane	11.21	83	4596	0.2685 ug/L	89
48) 1,2-Dichloropropane	11.33	63	3363	0.2540 ug/L	99
50) Bromodichloromethane	11.61	83	4335	0.2514 ug/L #	94
51) Dibromomethane	11.70	93	1957	0.2906 ug/L	93
52) 2-Chloroethyl Vinyl Ether	11.87	63	1265	0.2456 ug/L #	47
53) 4-Methyl-2-Pentanone	11.92	58	388	0.1384 ug/L #	35
54) cis-1,3-Dichloropropene	12.20	75	4777	0.2808 ug/L	96
55) Dimethyl Disulfide	12.46	79	1983	0.1951 ug/L	94
58) Toluene	12.60	91	14560	0.3025 ug/L	94
59) Ethyl Methacrylate	12.68	69	2069	0.2186 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\062714\11M02152.D Vial: 5
Acq On : 27 Jun 2014 16:37 Operator: FJB
Sample : WG482009-02 0.3ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 16:59:07 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Fri Jun 27 10:17:02 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

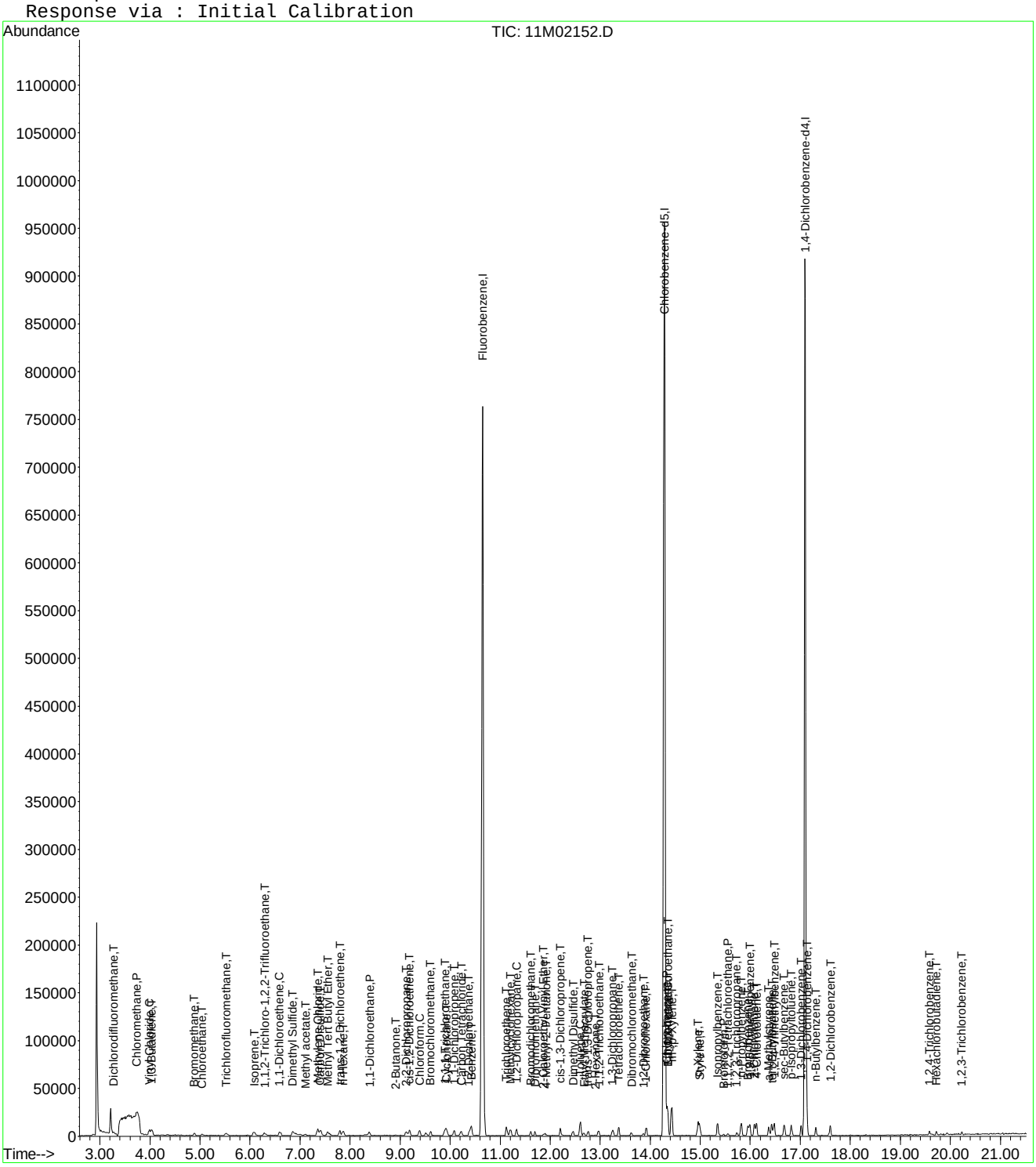
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
60)	trans-1,3-Dichloropropene	12.75	75	3446	0.2316 ug/L	98
61)	1,1,2-Trichloroethane	12.98	97	2629	0.2964 ug/L	99
62)	2-Hexanone	12.90	43	1014	0.2107 ug/L #	1
63)	1,3-Dichloropropane	13.24	76	4671	0.2918 ug/L	99
64)	Tetrachloroethene	13.37	164	3071	0.2954 ug/L	95
65)	Dibromochloromethane	13.63	129	2900	0.2864 ug/L	84
66)	1,2-Dibromoethane	13.87	107	2419	0.2736 ug/L	82
67)	1-Chlorohexane	13.92	91	3692	0.2529 ug/L	98
68)	Chlorobenzene	14.33	112	10379	0.4017 ug/L	93
69)	1,1,1,2-Tetrachloroethane	14.35	131	3025	0.2252 ug/L	90
70)	Ethylbenzene	14.35	106	4874	0.3485 ug/L	97
71)	m-,p-Xylene	14.43	106	11869	0.7285 ug/L	93
72)	o-Xylene	14.95	106	5398	0.2321 ug/L	90
73)	Styrene	14.99	104	7876	0.2581 ug/L	87
74)	Bromoform	15.47	173	1335	0.2182 ug/L #	55
75)	Isopropylbenzene	15.34	105	14134	0.3569 ug/L	99
77)	1,1,2,2-Tetrachloroethane	15.55	83	2531	0.2895 ug/L	98
79)	1,2,3-Trichloropropane	15.73	110	559	0.2042 ug/L	84
81)	n-Propylbenzene	15.82	91	14912	0.3784 ug/L	97
82)	Bromobenzene	15.95	156	4091	0.3210 ug/L	92
83)	1,3,5-Trimethylbenzene	16.00	105	10362	0.2858 ug/L	96
84)	2-Chlorotoluene	16.08	91	12607	0.4894 ug/L	99
85)	4-Chlorotoluene	16.13	91	8112	0.3705 ug/L	85
86)	a-Methylstyrene	16.37	118	4069	0.2449 ug/L	91
87)	tert-Butylbenzene	16.44	134	2357	0.2391 ug/L	78
88)	1,2,4-Trimethylbenzene	16.48	105	11345	0.3122 ug/L	93
89)	sec-Butylbenzene	16.68	105	13938	0.4052 ug/L	93
90)	p-Isopropyltoluene	16.82	119	10585	0.3730 ug/L	90
91)	1,3-Dichlorobenzene	17.02	146	6486	0.3567 ug/L	99
92)	1,4-Dichlorobenzene	17.13	146	7815	0.3879 ug/L	78
93)	n-Butylbenzene	17.31	91	7488	0.3132 ug/L	99
94)	1,2-Dichlorobenzene	17.61	146	6590	0.2877 ug/L	98
96)	1,2,4-Trichlorobenzene	19.58	180	2041	0.2065 ug/L	83
97)	Hexachlorobutadiene	19.72	225	1510	0.2843 ug/L	91
99)	1,2,3-Trichlorobenzene	20.22	180	1602	0.1321 ug/L	84

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\062714\11M02152.D Vial: 5
Acq On : 27 Jun 2014 16:37 Operator: FJB
Sample : WG482009-02 0.3ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 16:59 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Fri Jun 27 10:17:02 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02153.D Vial: 5
Acq On : 27 Jun 2014 17:08 Operator: FJB
Sample : WG482009-05 2ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:16 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	959698	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	703527	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.10	152	351674	25.00 ug/L	0.00

System Monitoring Compounds					
37) Dibromofluoromethane	9.67	111	10874	0.8253 ug/L	0.01
Spiked Amount 25.000	Range 86 - 118		Recovery =	3.32%#	
43) 1,2-Dichloroethane-d4	10.27	65	11144	0.7215 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	2.88%#	
57) Toluene-d8	12.51	98	40511	1.0340 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	4.12%#	
78) p-Bromofluorobenzene	15.67	95	14267	0.8834 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	3.52%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	17421	1.5216 ug/L	96
3) Chloromethane	3.74	50	39201	2.4420 ug/L	89
4) Vinyl Chloride	3.98	62	32226	1.7445 ug/L	97
5) 1,3-Butadiene	4.02	54	28582	1.8131 ug/L	93
6) Bromomethane	4.88	94	20246	2.1710 ug/L	94
7) Chloroethane	5.04	64	15448	1.6333 ug/L	96
8) Trichlorofluoromethane	5.52	101	36817	1.7256 ug/L	98
9) Diethyl ether	6.04	59	196496	20.2424 ug/L	92
10) Isoprene	6.08	67	29005	1.5260 ug/L	83
11) Acrolein	6.28	56	11879	7.2470 ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.30	101	21662	1.7150 ug/L	98
13) Acetone	6.38	43	4603	1.5681 ug/L #	78
14) 1,1-Dichloroethene	6.60	61	33426	1.5525 ug/L	89
15) Tert-Butyl Alcohol	6.70	59	26280	36.0647 ug/L #	81
16) Dimethyl Sulfide	6.86	62	22397	1.5256 ug/L	93
17) Iodomethane	7.10	142	8367	0.8881 ug/L	88
18) Methyl acetate	7.10	43	12932	1.5691 ug/L #	90
19) Methylene Chloride	7.35	84	25569	1.7625 ug/L	82
20) Carbon Disulfide	7.40	76	71810	2.5494 ug/L	98
21) Acrylonitrile	7.53	53	31572	8.9389 ug/L	95
22) Methyl Tert Butyl Ether	7.57	73	53520	1.9473 ug/L	92
23) trans-1,2-Dichloroethene	7.80	96	23821	1.7292 ug/L	83
24) n-Hexane	7.87	57	26906	2.3647 ug/L	95
25) Diisopropyl ether	8.18	45	871051	19.8231 ug/L	96
26) Vinyl Acetate	8.35	43	14270	1.1892 ug/L	99
27) 1,1-Dichloroethane	8.39	63	40838	1.6090 ug/L	97
28) Ethyl-Tert-Butyl ether	8.74	59	806365	21.0942 ug/L	95
29) 2-Butanone	8.92	43	5126	1.2651 ug/L	87
30) Propionitrile	9.02	54	22151	17.5363 ug/L	90
31) 2,2-Dichloropropane	9.13	77	36204	1.8316 ug/L	95
32) cis-1,2-Dichloroethene	9.19	96	26386	1.7482 ug/L	87
33) Chloroform	9.39	83	43593	1.7223 ug/L	95
34) 1-Bromopropane	9.51	122	4044	1.6610 ug/L	91
35) Bromochloromethane	9.61	130	15885	1.7419 ug/L	87
36) Tetrahydrofuran	9.64	42	45655	17.4152 ug/L	88
38) 1,1,1-Trichloroethane	9.89	97	35244	1.6520 ug/L	98
39) Cyclohexane	9.93	56	34523	1.4251 ug/L	87
40) 1,1-Dichloropropene	10.08	75	31053	1.9445 ug/L	97
41) Carbon Tetrachloride	10.22	117	34010	1.7997 ug/L	97
42) Tert-Amyl-Methyl ether	10.17	73	699997	23.4037 ug/L	100

(#) = qualifier out of range (m) = manual integration
11M02153.D 8260WTR.M Mon Jun 30 09:55:17 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02153.D Vial: 5
Acq On : 27 Jun 2014 17:08 Operator: FJB
Sample : WG482009-05 2ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:16 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

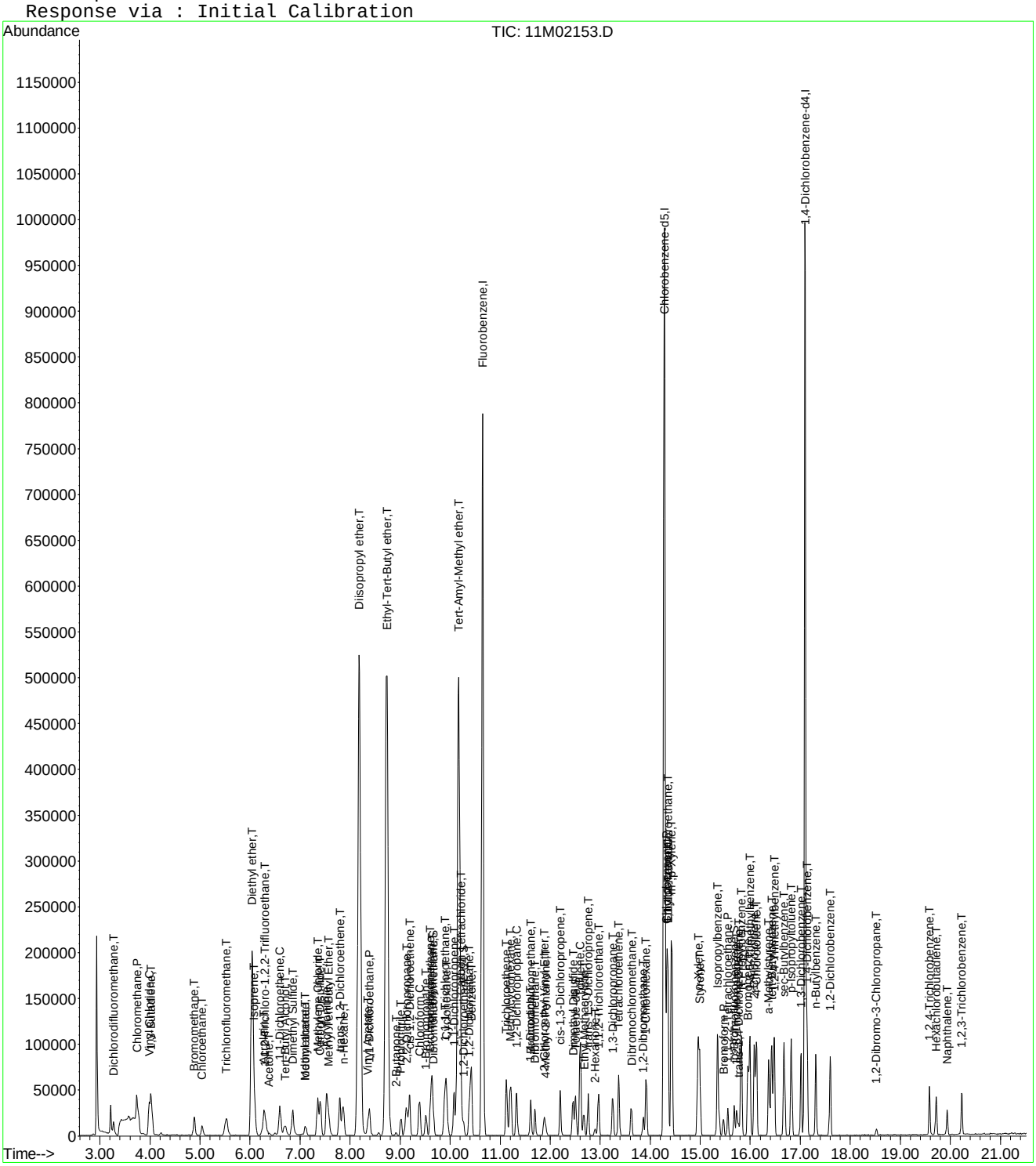
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	1,2-Dichloroethane	10.38	62	30384	1.7929 ug/L		94
45)	Benzene	10.42	78	93138	1.9610 ug/L		100
46)	Trichloroethene	11.13	130	28426	1.8430 ug/L		92
47)	Methylcyclohexane	11.21	83	35315	2.0182 ug/L		89
48)	1,2-Dichloropropane	11.33	63	21819	1.6120 ug/L		96
49)	1,4-Dioxane	11.60	88	3173	30.2904 ug/L		95
50)	Bromodichloromethane	11.61	83	30202	1.7133 ug/L		99
51)	Dibromomethane	11.69	93	13406	1.9474 ug/L		98
52)	2-Chloroethyl Vinyl Ether	11.88	63	9546	1.8131 ug/L		97
53)	4-Methyl-2-Pentanone	11.91	58	4466	1.5584 ug/L		99
54)	cis-1,3-Dichloropropene	12.20	75	32734	1.8820 ug/L		99
55)	Dimethyl Disulfide	12.46	79	13699	1.3184 ug/L		91
58)	Toluene	12.60	91	97292	1.9920 ug/L		99
59)	Ethyl Methacrylate	12.68	69	16851	1.7548 ug/L		91
60)	trans-1,3-Dichloropropene	12.76	75	28493	1.8873 ug/L		97
61)	1,1,2-Trichloroethane	12.97	97	17433	1.9374 ug/L		98
62)	2-Hexanone	12.89	43	7136	1.4617 ug/L	#	92
63)	1,3-Dichloropropane	13.26	76	31012	1.9092 ug/L		93
64)	Tetrachloroethene	13.37	164	21043	1.9954 ug/L		88
65)	Dibromochloromethane	13.63	129	20490	1.9943 ug/L		98
66)	1,2-Dibromoethane	13.86	107	17557	1.9570 ug/L		99
67)	1-Chlorohexane	13.92	91	27427	1.8520 ug/L		92
68)	Chlorobenzene	14.33	112	69696	2.6589 ug/L		100
69)	1,1,1,2-Tetrachloroethane	14.35	131	23255	1.7066 ug/L		93
70)	Ethylbenzene	14.35	106	35892	2.5292 ug/L		99
71)	m-,p-Xylene	14.42	106	86366	5.2250 ug/L		99
72)	o-Xylene	14.96	106	41085	1.7409 ug/L		100
73)	Styrene	14.99	104	59479	1.9215 ug/L		99
74)	Bromoform	15.47	173	11915	1.9195 ug/L		99
75)	Isopropylbenzene	15.34	105	105378	2.6224 ug/L		100
77)	1,1,2,2-Tetrachloroethane	15.55	83	20093	2.1377 ug/L		94
79)	1,2,3-Trichloropropane	15.73	110	5718	1.9430 ug/L		93
80)	trans-1,4-Dichloro-2-Buten	15.77	53	3604	1.5206 ug/L	#	42
81)	n-Propylbenzene	15.82	91	117633	2.7761 ug/L		100
82)	Bromobenzene	15.95	156	26984	1.9696 ug/L		94
83)	1,3,5-Trimethylbenzene	16.00	105	83593	2.1447 ug/L		99
84)	2-Chlorotoluene	16.08	91	75359	2.7209 ug/L		83
85)	4-Chlorotoluene	16.12	91	76984	3.2707 ug/L		89
86)	a-Methylstyrene	16.37	118	36777	2.0587 ug/L		100
87)	tert-Butylbenzene	16.43	134	17298	1.6321 ug/L		85
88)	1,2,4-Trimethylbenzene	16.48	105	87516	2.2403 ug/L		98
89)	sec-Butylbenzene	16.68	105	102658	2.7761 ug/L		98
90)	p-Isopropyltoluene	16.82	119	85196	2.7923 ug/L		99
91)	1,3-Dichlorobenzene	17.02	146	51972	2.6587 ug/L		95
92)	1,4-Dichlorobenzene	17.13	146	52102	2.4053 ug/L		91
93)	n-Butylbenzene	17.31	91	65613	2.5530 ug/L		98
94)	1,2-Dichlorobenzene	17.60	146	47313	1.9211 ug/L		97
95)	1,2-Dibromo-3-Chloropropan	18.52	75	2455	1.6977 ug/L		98
96)	1,2,4-Trichlorobenzene	19.58	180	20585	1.9376 ug/L		95
97)	Hexachlorobutadiene	19.72	225	11941	2.0914 ug/L		100
98)	Naphthalene	19.93	128	28656	1.3103 ug/L		98
99)	1,2,3-Trichlorobenzene	20.22	180	19535	1.4982 ug/L		93

(#) = qualifier out of range (m) = manual integration
11M02153.D 8260WTR.M Mon Jun 30 09:55:18 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02153.D Vial: 5
Acq On : 27 Jun 2014 17:08 Operator: FJB
Sample : WG482009-05 2ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:55 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration



11M02153.D 8260WTR.M Mon Jun 30 09:55:18 2014 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02154.D Vial: 7
Acq On : 27 Jun 2014 17:38 Operator: FJB
Sample : WG482009-06 5ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:19 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	973198	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	716320	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.10	152	360506	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	9.67	111	29372	2.1983 ug/L	0.01
Spiked Amount 25.000	Range 86 - 118		Recovery	= 8.80%#	
43) 1,2-Dichloroethane-d4	10.27	65	30829	1.9682 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery	= 7.88%#	
57) Toluene-d8	12.51	98	106640	2.6733 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery	= 10.68%#	
78) p-Bromofluorobenzene	15.67	95	38329	2.3153 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery	= 9.28%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	47060	4.0533 ug/L	98
3) Chloromethane	3.74	50	91038	5.5924 ug/L	94
4) Vinyl Chloride	3.98	62	87798	4.6869 ug/L	99
5) 1,3-Butadiene	4.02	54	77059	4.8204 ug/L	99
6) Bromomethane	4.88	94	46594	4.9270 ug/L	96
7) Chloroethane	5.05	64	40633	4.2364 ug/L	94
8) Trichlorofluoromethane	5.52	101	99736	4.6099 ug/L	98
9) Diethyl ether	6.04	59	407273	41.3739 ug/L	94
10) Isoprene	6.08	67	79665	4.1331 ug/L	87
11) Acrolein	6.28	56	26242	15.7872 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.30	101	61508	4.8021 ug/L	98
13) Acetone	6.39	43	11027	3.7045 ug/L	94
14) 1,1-Dichloroethene	6.60	61	91307	4.1819 ug/L	88
15) Tert-Butyl Alcohol	6.70	59	55118	74.5905 ug/L	87
16) Dimethyl Sulfide	6.86	62	58350	3.9195 ug/L	96
17) Iodomethane	7.10	142	33601	3.5172 ug/L	98
18) Methyl acetate	7.10	43	33092	3.9596 ug/L	98
19) Methylene Chloride	7.35	84	65645	4.4621 ug/L	77
20) Carbon Disulfide	7.40	76	184460	6.4578 ug/L	99
21) Acrylonitrile	7.53	53	65820	18.3769 ug/L	99
22) Methyl Tert Butyl Ether	7.56	73	136095	4.8830 ug/L	96
23) trans-1,2-Dichloroethene	7.80	96	63748	4.5634 ug/L	81
24) n-Hexane	7.86	57	76744	6.6512 ug/L	93
25) Diisopropyl ether	8.18	45	1825962	40.9782 ug/L	97
26) Vinyl Acetate	8.35	43	43129	3.5443 ug/L	96
27) 1,1-Dichloroethane	8.39	63	108400	4.2116 ug/L	99
28) Ethyl-Tert-Butyl ether	8.73	59	1687079	43.5211 ug/L	96
29) 2-Butanone	8.91	43	15952	3.8823 ug/L	99
30) Propionitrile	9.02	54	47562	37.1311 ug/L	96
31) 2,2-Dichloropropane	9.12	77	95603	4.7695 ug/L	99
32) cis-1,2-Dichloroethene	9.19	96	70273	4.5912 ug/L	84
33) Chloroform	9.39	83	111903	4.3597 ug/L	98
34) 1-Bromopropane	9.51	122	12637	5.1184 ug/L	98
35) Bromochloromethane	9.62	130	42544	4.6005 ug/L	83
36) Tetrahydrofuran	9.64	42	94318	35.4787 ug/L	90
38) 1,1,1-Trichloroethane	9.89	97	99544	4.6011 ug/L	96
39) Cyclohexane	9.93	56	94419	3.8436 ug/L	85
40) 1,1-Dichloropropene	10.08	75	84166	5.1972 ug/L	96
41) Carbon Tetrachloride	10.22	117	91016	4.7495 ug/L	98
42) Tert-Amyl-Methyl ether	10.16	73	1459096	48.1068 ug/L	99

(#) = qualifier out of range (m) = manual integration
11M02154.D 8260WTR.M Mon Jun 30 10:27:56 2014 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02154.D Vial: 7
Acq On : 27 Jun 2014 17:38 Operator: FJB
Sample : WG482009-06 5ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:19 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

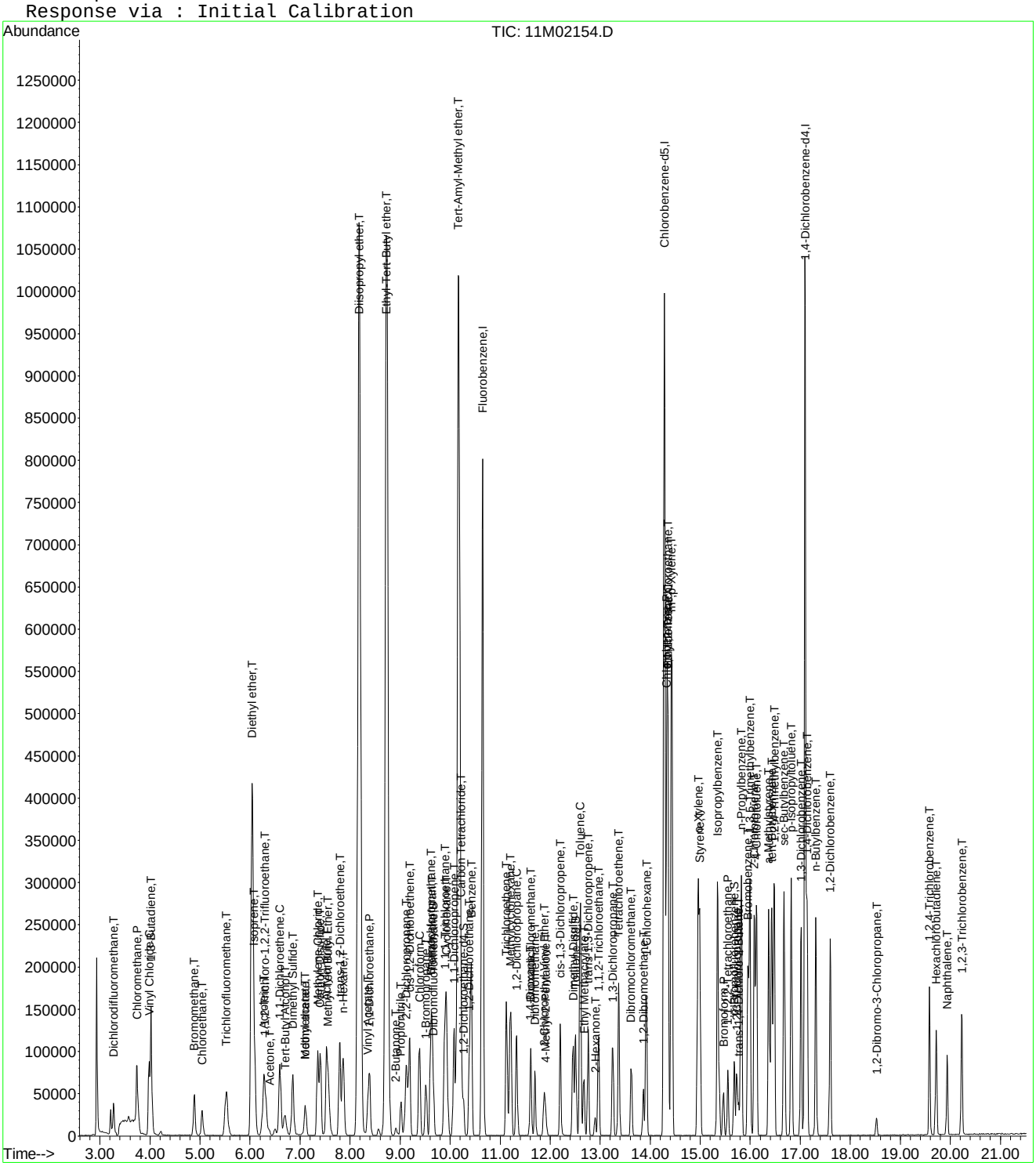
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	1,2-Dichloroethane	10.38	62	76437	4.4478 ug/L		98
45)	Benzene	10.42	78	248027	5.1498 ug/L		99
46)	Trichloroethene	11.13	130	71565	4.5756 ug/L		95
47)	Methylcyclohexane	11.21	83	96500	5.4384 ug/L		91
48)	1,2-Dichloropropane	11.33	63	57182	4.1661 ug/L		95
49)	1,4-Dioxane	11.60	88	7147	67.2808 ug/L		84
50)	Bromodichloromethane	11.61	83	81213	4.5432 ug/L		99
51)	Dibromomethane	11.69	93	33069	4.7372 ug/L		94
52)	2-Chloroethyl Vinyl Ether	11.88	63	25321	4.7425 ug/L		96
53)	4-Methyl-2-Pentanone	11.91	58	12338	4.2456 ug/L		99
54)	cis-1,3-Dichloropropene	12.20	75	90782	5.1469 ug/L		99
55)	Dimethyl Disulfide	12.46	79	39032	3.7044 ug/L		92
58)	Toluene	12.60	91	265449	5.3379 ug/L		98
59)	Ethyl Methacrylate	12.68	69	46776	4.7840 ug/L		91
60)	trans-1,3-Dichloropropene	12.76	75	79164	5.1499 ug/L		98
61)	1,1,2-Trichloroethane	12.97	97	46139	5.0361 ug/L		98
62)	2-Hexanone	12.90	43	19211	3.8648 ug/L		99
63)	1,3-Dichloropropane	13.26	76	81973	4.9564 ug/L		90
64)	Tetrachloroethene	13.37	164	55897	5.2056 ug/L		95
65)	Dibromochloromethane	13.62	129	57082	5.4567 ug/L		99
66)	1,2-Dibromoethane	13.87	107	44600	4.8825 ug/L		96
67)	1-Chlorohexane	13.93	91	78712	5.2200 ug/L		89
68)	Chlorobenzene	14.33	112	183573	6.8782 ug/L		99
69)	1,1,1,2-Tetrachloroethane	14.35	131	62475	4.5030 ug/L		96
70)	Ethylbenzene	14.35	106	95207	6.5891 ug/L		98
71)	m-,p-Xylene	14.42	106	236076	14.0272 ug/L		98
72)	o-Xylene	14.96	106	112115	4.6657 ug/L		98
73)	Styrene	14.99	104	170325	5.4041 ug/L		97
74)	Bromoform	15.47	173	31136	4.9264 ug/L		97
75)	Isopropylbenzene	15.34	105	284195	6.9462 ug/L		98
77)	1,1,2,2-Tetrachloroethane	15.55	83	50867	5.2792 ug/L		99
79)	1,2,3-Trichloropropane	15.74	110	15820	5.2441 ug/L		81
80)	trans-1,4-Dichloro-2-Buten	15.77	53	9737	4.0076 ug/L	#	26
81)	n-Propylbenzene	15.82	91	328868	7.5711 ug/L		99
82)	Bromobenzene	15.95	156	71454	5.0876 ug/L		92
83)	1,3,5-Trimethylbenzene	16.00	105	233086	5.8337 ug/L		98
84)	2-Chlorotoluene	16.08	91	197706	6.9634 ug/L		82
85)	4-Chlorotoluene	16.12	91	205308m	8.5090 ug/L		
86)	a-Methylstyrene	16.37	118	106257	5.8024 ug/L		97
87)	tert-Butylbenzene	16.43	134	48972	4.5075 ug/L		92
88)	1,2,4-Trimethylbenzene	16.48	105	232243	5.7995 ug/L		96
89)	sec-Butylbenzene	16.68	105	291225	7.6824 ug/L		99
90)	p-Isopropyltoluene	16.82	119	240543	7.6907 ug/L		99
91)	1,3-Dichlorobenzene	17.02	146	137458	6.8596 ug/L		94
92)	1,4-Dichlorobenzene	17.13	146	130925	5.8960 ug/L		97
93)	n-Butylbenzene	17.31	91	193140	7.3310 ug/L		98
94)	1,2-Dichlorobenzene	17.60	146	126483	5.0098 ug/L		97
95)	1,2-Dibromo-3-Chloropropan	18.53	75	6253	4.2183 ug/L		80
96)	1,2,4-Trichlorobenzene	19.58	180	68037	6.2471 ug/L		93
97)	Hexachlorobutadiene	19.72	225	33645	5.7485 ug/L		97
98)	Naphthalene	19.93	128	95547	4.2618 ug/L		100
99)	1,2,3-Trichlorobenzene	20.23	180	60592	4.5332 ug/L		94

(#) = qualifier out of range (m) = manual integration
11M02154.D 8260WTR.M Mon Jun 30 10:27:57 2014 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02154.D Vial: 7
Acq On : 27 Jun 2014 17:38 Operator: FJB
Sample : WG482009-06 5ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:02 2014 Quant Results File: 8260WTR.RES

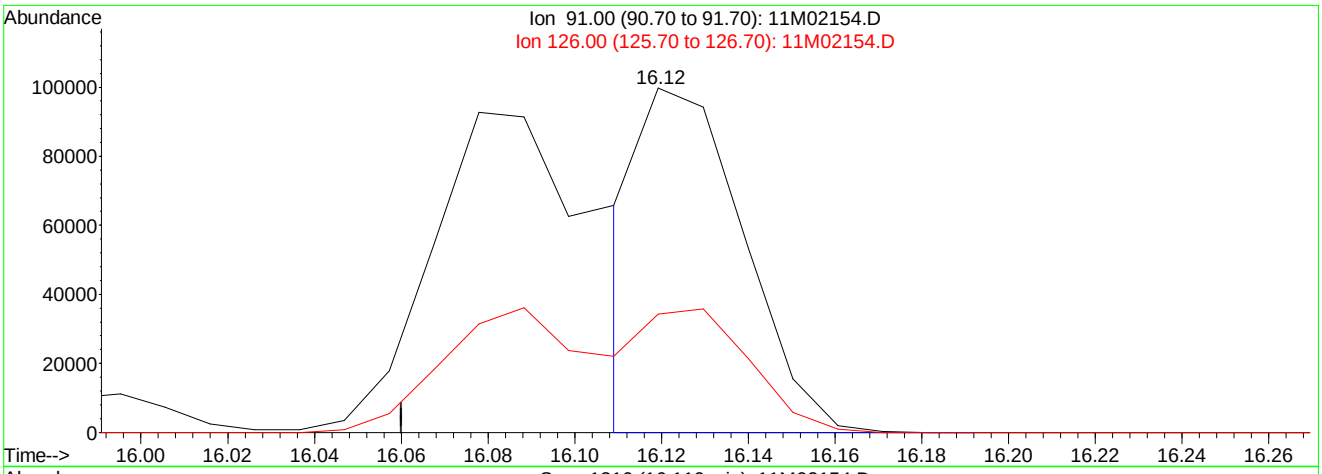
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:26:20 2014
Response via : Initial Calibration

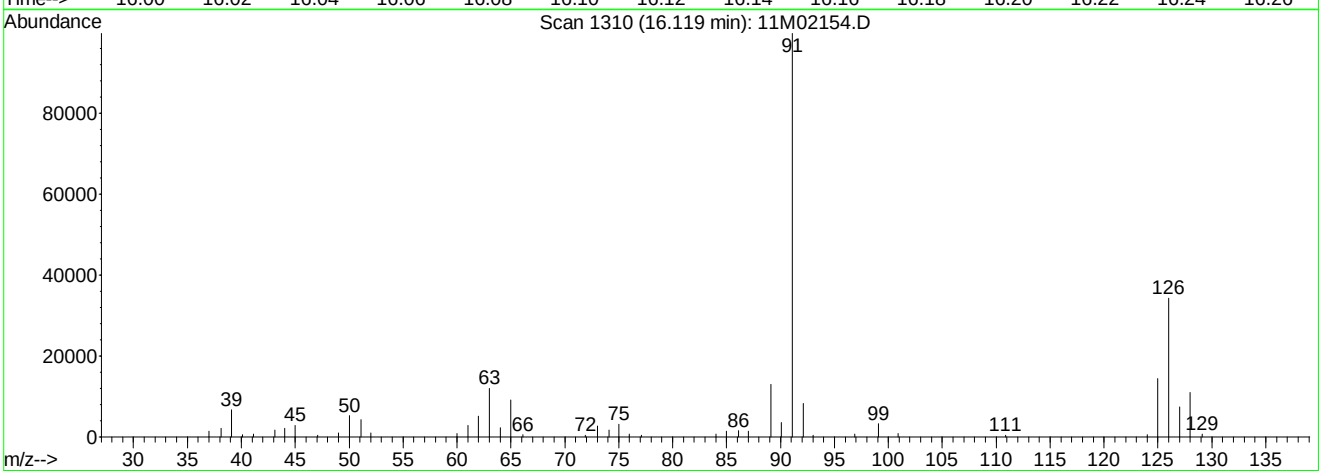


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\062714\11M02154.D Vial: 7
Acq On : 27 Jun 2014 17:38 Operator: FJB
Sample : WG482009-06 5ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:55 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Multiple Level Calibration





TIC: 11M02154.D

(85) 4-Chlorotoluene (T)

16.12min 6.82ug/L

response 164512

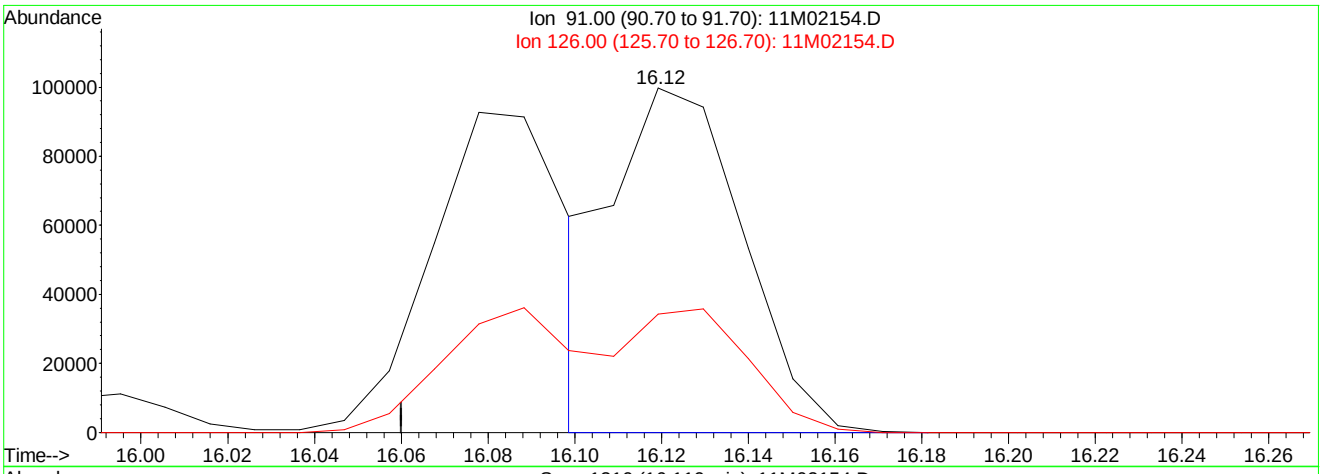
Ion	Exp%	Act%
91.00	100	100
126.00	34.70	37.09
0.00	0.00	0.00
0.00	0.00	0.00

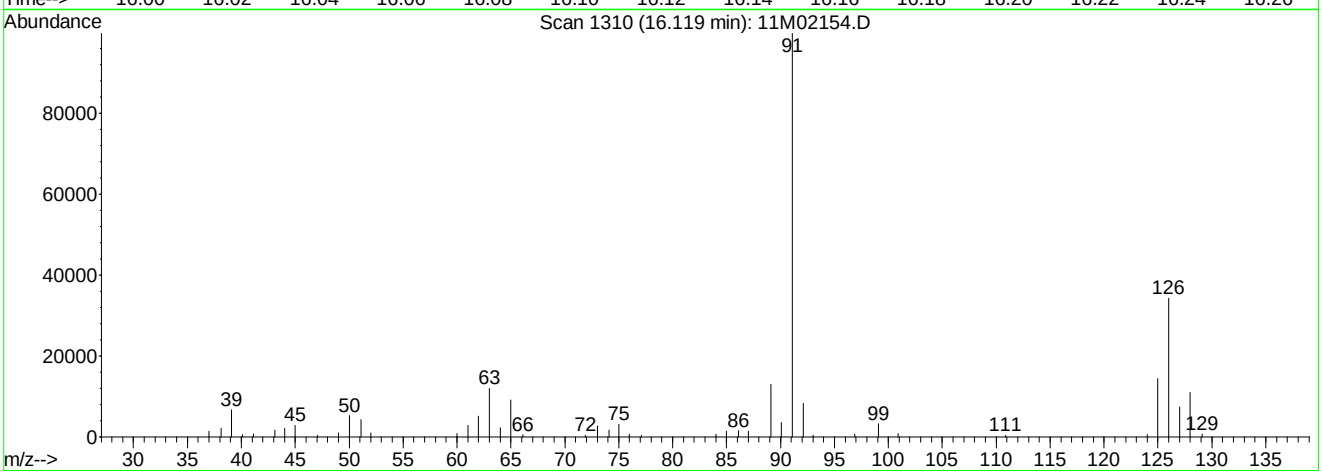
11M02154.D 8260WTR.M Mon Jun 30 10:02:45 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\062714\11M02154.D Vial: 7
Acq On : 27 Jun 2014 17:38 Operator: FJB
Sample : WG482009-06 5ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:02 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Multiple Level Calibration





TIC: 11M02154.D

(85) 4-Chlorotoluene (T)

16.12min 8.51ug/L mint

response 205308

Ion	Exp%	Act%
91.00	100	100
126.00	34.70	29.72
0.00	0.00	0.00
0.00	0.00	0.00

11M02154.D 8260WTR.M Mon Jun 30 .4

Analyst: 06/30/2014 14:36 Supervisor: 06/30/2014 15:39

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02155.D Vial: 8
Acq On : 27 Jun 2014 18:08 Operator: FJB
Sample : WG482009-07 20ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:21 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	974985	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	733438	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.10	152	383442	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	9.67	111	128732	9.6173 ug/L	0.01
Spiked Amount 25.000	Range 86 - 118		Recovery = 38.48%#		
43) 1,2-Dichloroethane-d4	10.27	65	127119	8.1006 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 32.40%#		
57) Toluene-d8	12.51	98	454218	11.1206 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 44.48%#		
78) p-Bromofluorobenzene	15.67	95	169494	9.6259 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 38.52%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	234019	20.1190 ug/L	99
3) Chloromethane	3.74	50	377778	23.1640 ug/L	98
4) Vinyl Chloride	3.98	62	371364	19.7882 ug/L	99
5) 1,3-Butadiene	4.02	54	342837	21.4069 ug/L	95
6) Bromomethane	4.88	94	163158	17.2213 ug/L	100
7) Chloroethane	5.04	64	176823	18.4020 ug/L	94
8) Trichlorofluoromethane	5.53	101	408537	18.8482 ug/L	100
9) Diethyl ether	6.04	59	639056	64.8012 ug/L	94
10) Isoprene	6.08	67	345555	17.8949 ug/L	88
11) Acrolein	6.28	56	41818	25.1117 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.29	101	254413	19.8262 ug/L	100
13) Acetone	6.38	43	36282	12.1665 ug/L	91
14) 1,1-Dichloroethene	6.60	61	372084	17.0103 ug/L	88
15) Tert-Butyl Alcohol	6.70	59	85391	115.3468 ug/L	91
16) Dimethyl Sulfide	6.86	62	259122	17.3739 ug/L	90
17) Iodomethane	7.10	142	281036	29.3634 ug/L	98
18) Methyl acetate	7.10	43	125584	14.9992 ug/L	95
19) Methylene Chloride	7.35	84	261595	17.7488 ug/L	80
20) Carbon Disulfide	7.40	76	815875	28.5107 ug/L	100
21) Acrylonitrile	7.53	53	107996	30.0971 ug/L	100
22) Methyl Tert Butyl Ether	7.56	73	560719	20.0815 ug/L	95
23) trans-1,2-Dichloroethene	7.80	96	266954	19.0750 ug/L	83
24) n-Hexane	7.86	57	319195	27.6130 ug/L	93
25) Diisopropyl ether	8.18	45	2877669	64.4622 ug/L	96
26) Vinyl Acetate	8.34	43	210400	17.2589 ug/L	96
27) 1,1-Dichloroethane	8.39	63	447137	17.3406 ug/L	99
28) Ethyl-Tert-Butyl ether	8.73	59	2664256	68.6031 ug/L	96
29) 2-Butanone	8.91	43	57692	14.0151 ug/L	89
30) Propionitrile	9.02	54	75427	58.7771 ug/L	96
31) 2,2-Dichloropropane	9.13	77	397086	19.7738 ug/L	99
32) cis-1,2-Dichloroethene	9.19	96	294453	19.2025 ug/L	82
33) Chloroform	9.39	83	457225	17.7807 ug/L	99
34) 1-Bromopropane	9.51	122	49053	19.8317 ug/L	94
35) Bromochloromethane	9.62	130	174174	18.7999 ug/L	83
36) Tetrahydrofuran	9.64	42	153686	57.7047 ug/L	90
38) 1,1,1-Trichloroethane	9.89	97	419434	19.3517 ug/L	96
39) Cyclohexane	9.93	56	401475	16.3131 ug/L	87
40) 1,1-Dichloropropene	10.08	75	355609	21.9182 ug/L	98
41) Carbon Tetrachloride	10.22	117	385880	20.0997 ug/L	99
42) Tert-Amyl-Methyl ether	10.16	73	2338713	76.9666 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02155.D Vial: 8
Acq On : 27 Jun 2014 18:08 Operator: FJB
Sample : WG482009-07 20ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:21 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

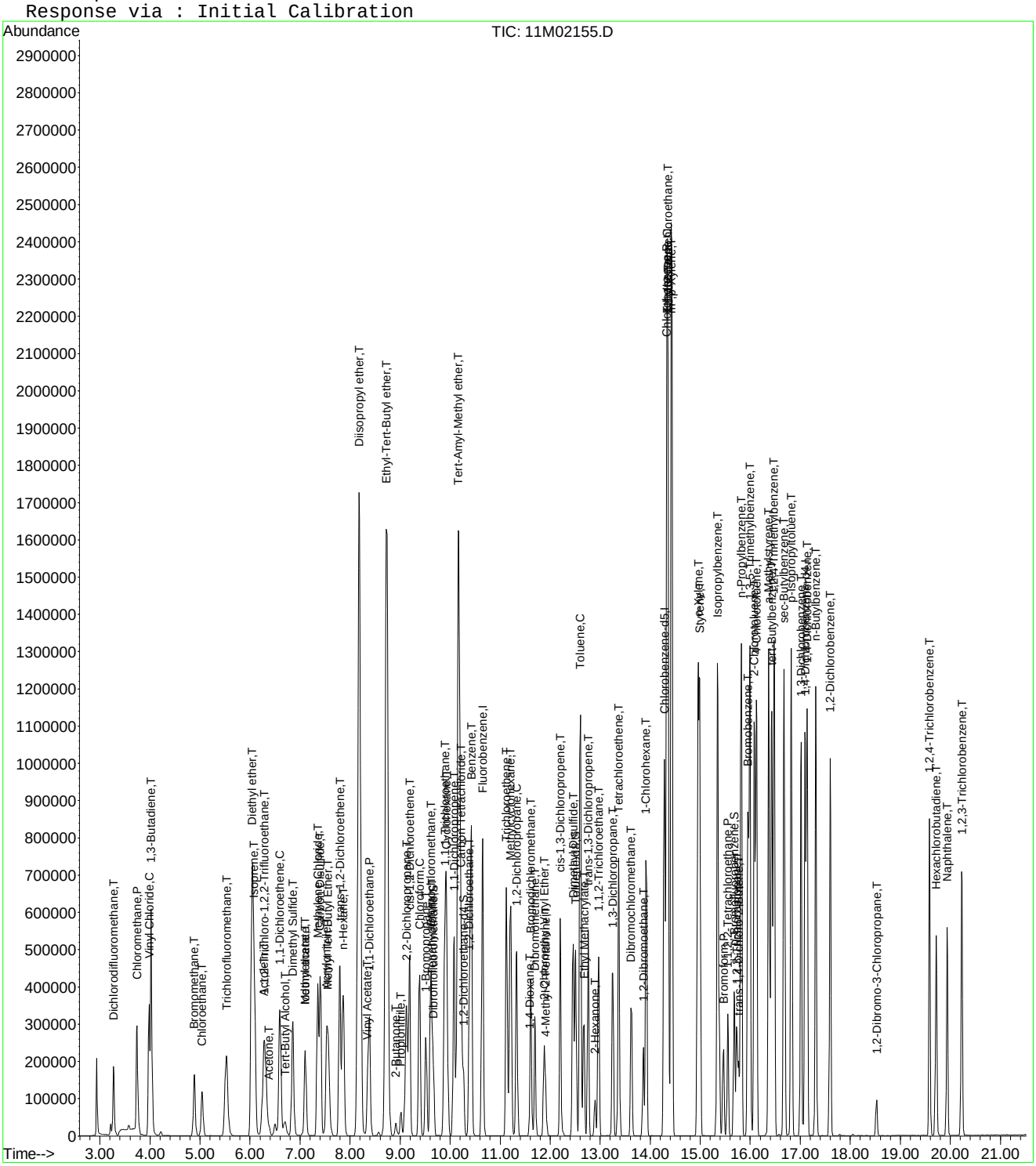
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	1,2-Dichloroethane	10.38	62	315822	18.3438	ug/L	98
45)	Benzene	10.42	78	1007955	20.8900	ug/L	100
46)	Trichloroethene	11.13	130	293314	18.7189	ug/L	96
47)	Methylcyclohexane	11.21	83	409973	23.0624	ug/L	91
48)	1,2-Dichloropropane	11.33	63	247924	18.0300	ug/L	98
49)	1,4-Dioxane	11.59	88	11148	104.7533	ug/L	94
50)	Bromodichloromethane	11.61	83	337165	18.8271	ug/L	100
51)	Dibromomethane	11.69	93	139242	19.9099	ug/L	94
52)	2-Chloroethyl Vinyl Ether	11.88	63	110288	20.6186	ug/L	96
53)	4-Methyl-2-Pentanone	11.91	58	50803	17.4498	ug/L	95
54)	cis-1,3-Dichloropropene	12.20	75	396630	22.4457	ug/L	99
55)	Dimethyl Disulfide	12.46	79	197859	18.7438	ug/L	100
58)	Toluene	12.60	91	1097687	21.5580	ug/L	99
59)	Ethyl Methacrylate	12.68	69	215144	21.4904	ug/L	91
60)	trans-1,3-Dichloropropene	12.76	75	344904	21.9134	ug/L	96
61)	1,1,2-Trichloroethane	12.97	97	191691	20.4348	ug/L	99
62)	2-Hexanone	12.89	43	81155	15.9452	ug/L	99
63)	1,3-Dichloropropane	13.26	76	332404	19.6293	ug/L	91
64)	Tetrachloroethene	13.37	164	228957	20.8249	ug/L	95
65)	Dibromochloromethane	13.62	129	241724	22.5680	ug/L	97
66)	1,2-Dibromoethane	13.87	107	193951	20.7369	ug/L	100
67)	1-Chlorohexane	13.92	91	346444	22.4392	ug/L	87
68)	Chlorobenzene	14.33	112	739694	27.0682	ug/L	99
69)	1,1,1,2-Tetrachloroethane	14.35	131	265726	18.7056	ug/L	98
70)	Ethylbenzene	14.34	106	408724	27.6267	ug/L	99
71)	m-,p-Xylene	14.42	106	991025	57.5104	ug/L	98
72)	o-Xylene	14.96	106	477547	19.4096	ug/L	98
73)	Styrene	14.99	104	777262	24.0855	ug/L	97
74)	Bromoform	15.47	173	143832	22.2262	ug/L	99
75)	Isopropylbenzene	15.34	105	1204488	28.7524	ug/L	99
77)	1,1,2,2-Tetrachloroethane	15.55	83	210186	20.5093	ug/L	98
79)	1,2,3-Trichloropropane	15.74	110	64969	20.2482	ug/L	88
80)	trans-1,4-Dichloro-2-Buten	15.77	53	52676	20.3838	ug/L	69
81)	n-Propylbenzene	15.82	91	1400204	30.3070	ug/L	99
82)	Bromobenzene	15.95	156	306976	20.5498	ug/L	92
83)	1,3,5-Trimethylbenzene	16.00	105	1005879	23.6693	ug/L	98
84)	2-Chlorotoluene	16.08	91	833451	27.5990	ug/L	82
85)	4-Chlorotoluene	16.12	91	875251	34.1049	ug/L	91
86)	a-Methylstyrene	16.37	118	535480	27.4920	ug/L	99
87)	tert-Butylbenzene	16.43	134	208323	18.0276	ug/L	84
88)	1,2,4-Trimethylbenzene	16.47	105	1033135	24.2559	ug/L	98
89)	sec-Butylbenzene	16.68	105	1237239	30.6857	ug/L	99
90)	p-Isopropyltoluene	16.82	119	1058828	31.8283	ug/L	98
91)	1,3-Dichlorobenzene	17.02	146	577486	27.0947	ug/L	97
92)	1,4-Dichlorobenzene	17.13	146	578134	24.4781	ug/L	97
93)	n-Butylbenzene	17.31	91	891751	31.8233	ug/L	99
94)	1,2-Dichlorobenzene	17.60	146	537958	20.0331	ug/L	96
95)	1,2-Dibromo-3-Chloropropan	18.53	75	30192	19.1493	ug/L	89
96)	1,2,4-Trichlorobenzene	19.58	180	328409	28.3506	ug/L	95
97)	Hexachlorobutadiene	19.72	225	139992	22.4878	ug/L	98
98)	Naphthalene	19.93	128	568824	23.8543	ug/L	100
99)	1,2,3-Trichlorobenzene	20.23	180	300893	21.1649	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02155.D Vial: 8
Acq On : 27 Jun 2014 18:08 Operator: FJB
Sample : WG482009-07 20ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:55 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02156.D Vial: 9
Acq On : 27 Jun 2014 18:38 Operator: FJB
Sample : WG482009-08 50ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:23 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	1022945	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	765291	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.10	152	396828	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.66	111	333188	23.7247 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 94.88%		
43) 1,2-Dichloroethane-d4	10.27	65	318247	19.3294 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 77.32%#		
57) Toluene-d8	12.51	98	1167170	27.3864 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 109.56%		
78) p-Bromofluorobenzene	15.67	95	436664	23.9624 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 95.84%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	583562	47.8176 ug/L	100
3) Chloromethane	3.74	50	917650	53.6290 ug/L	98
4) Vinyl Chloride	3.98	62	919547	46.7011 ug/L	99
5) 1,3-Butadiene	4.03	54	700979	41.7174 ug/L	92
6) Bromomethane	4.89	94	409424	41.1886 ug/L	99
7) Chloroethane	5.05	64	442462	43.8882 ug/L	95
8) Trichlorofluoromethane	5.52	101	1040167	45.7391 ug/L	99
9) Diethyl ether	6.04	59	824967	79.7308 ug/L	93
10) Isoprene	6.08	67	914518	45.1389 ug/L	86
11) Acrolein	6.28	56	53465	30.6005 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.29	101	635935	47.2345 ug/L	99
13) Acetone	6.38	43	91313	29.1845 ug/L	93
14) 1,1-Dichloroethene	6.60	61	957092	41.7032 ug/L	89
15) Tert-Butyl Alcohol	6.70	59	103610	133.3954 ug/L	92
16) Dimethyl Sulfide	6.86	62	655852	41.9125 ug/L	90
17) Iodomethane	7.10	142	806457	80.3103 ug/L	98
18) Methyl acetate	7.10	43	315831	35.9528 ug/L	95
19) Methylene Chloride	7.35	84	658130	42.5596 ug/L	79
20) Carbon Disulfide	7.40	76	2070313	68.9550 ug/L	100
21) Acrylonitrile	7.53	53	143291	38.0611 ug/L	100
22) Methyl Tert Butyl Ether	7.56	73	1403671	47.9140 ug/L	94
23) trans-1,2-Dichloroethene	7.80	96	677334	46.1292 ug/L	83
24) n-Hexane	7.86	57	817357	67.3929 ug/L	94
25) Diisopropyl ether	8.18	45	3720474	79.4343 ug/L	96
26) Vinyl Acetate	8.35	43	512323	40.0551 ug/L	95
27) 1,1-Dichloroethane	8.39	63	1140573	42.1592 ug/L	99
28) Ethyl-Tert-Butyl ether	8.73	59	3414136	83.7904 ug/L	96
29) 2-Butanone	8.91	43	143413	33.2059 ug/L	91
30) Propionitrile	9.02	54	97206	72.1972 ug/L	100
31) 2,2-Dichloropropane	9.13	77	1009967	47.9356 ug/L	99
32) cis-1,2-Dichloroethene	9.19	96	740663	46.0372 ug/L	83
33) Chloroform	9.39	83	1154634	42.7966 ug/L	100
34) 1-Bromopropane	9.52	122	133085	51.2825 ug/L	99
35) Bromochloromethane	9.62	130	436949	44.9520 ug/L	83
36) Tetrahydrofuran	9.64	42	189559	67.8370 ug/L	87
38) 1,1,1-Trichloroethane	9.89	97	1071776	47.1307 ug/L	96
39) Cyclohexane	9.93	56	1042564	40.3764 ug/L	87
40) 1,1-Dichloropropene	10.08	75	910700	53.4999 ug/L	98
41) Carbon Tetrachloride	10.22	117	992372	49.2672 ug/L	99
42) Tert-Amyl-Methyl ether	10.16	73	2944520	92.3604 ug/L	98

(#) = qualifier out of range (m) = manual integration
11M02156.D 8260WTR.M Mon Jun 30 09:55:24 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02156.D Vial: 9
Acq On : 27 Jun 2014 18:38 Operator: FJB
Sample : WG482009-08 50ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:23 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

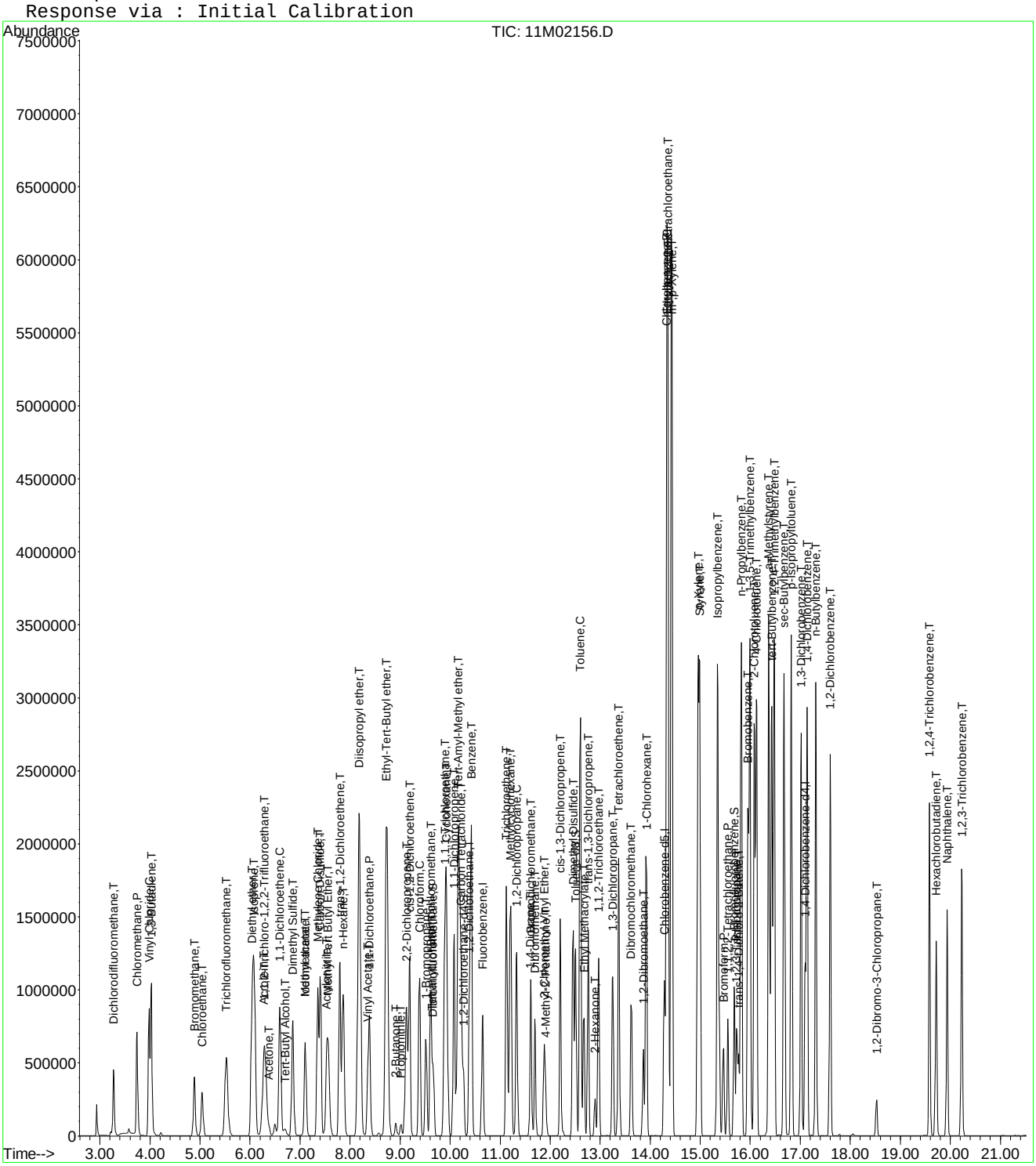
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	1,2-Dichloroethane	10.38	62	789473	43.7049	ug/L	98
45)	Benzene	10.42	78	2533312	50.0416	ug/L	99
46)	Trichloroethene	11.13	130	751284	45.6979	ug/L	96
47)	Methylcyclohexane	11.21	83	1061534	56.9154	ug/L	90
48)	1,2-Dichloropropane	11.33	63	628104	43.5366	ug/L	98
49)	1,4-Dioxane	11.60	88	14950	133.8930	ug/L	85
50)	Bromodichloromethane	11.61	83	870048	46.3053	ug/L	100
51)	Dibromomethane	11.69	93	352533	48.0446	ug/L	97
52)	2-Chloroethyl Vinyl Ether	11.88	63	290528	51.7684	ug/L	95
53)	4-Methyl-2-Pentanone	11.91	58	132982	43.5351	ug/L	97
54)	cis-1,3-Dichloropropene	12.20	75	1019389	54.9836	ug/L	100
55)	Dimethyl Disulfide	12.46	79	542530	48.9858	ug/L	99
58)	Toluene	12.60	91	2740293	51.5780	ug/L	100
59)	Ethyl Methacrylate	12.68	69	572456	54.8017	ug/L	89
60)	trans-1,3-Dichloropropene	12.76	75	890873	54.2456	ug/L	96
61)	1,1,2-Trichloroethane	12.97	97	484469	49.4962	ug/L	100
62)	2-Hexanone	12.89	43	209380	39.4265	ug/L	98
63)	1,3-Dichloropropane	13.26	76	821060	46.4675	ug/L	91
64)	Tetrachloroethene	13.37	164	578857	50.4589	ug/L	97
65)	Dibromochloromethane	13.62	129	634847	56.8041	ug/L	99
66)	1,2-Dibromoethane	13.87	107	485361	49.7339	ug/L	99
67)	1-Chlorohexane	13.93	91	905497	56.2080	ug/L	87
68)	Chlorobenzene	14.33	112	1914887	67.1563	ug/L	99
69)	1,1,1,2-Tetrachloroethane	14.35	131	703902	47.4883	ug/L	98
70)	Ethylbenzene	14.34	106	1072100	69.4497	ug/L	94
71)	m-,p-Xylene	14.43	106	2534421	140.9540	ug/L	93
72)	o-Xylene	14.96	106	1247702	48.6013	ug/L	95
73)	Styrene	14.99	104	2054402	61.0114	ug/L	97
74)	Bromoform	15.47	173	377841	55.9573	ug/L	100
75)	Isopropylbenzene	15.34	105	3033206	69.3922	ug/L	97
77)	1,1,2,2-Tetrachloroethane	15.55	83	524295	49.4334	ug/L	100
79)	1,2,3-Trichloropropane	15.73	110	161861	48.7438	ug/L	91
80)	trans-1,4-Dichloro-2-Buten	15.77	53	143808	53.7716	ug/L	78
81)	n-Propylbenzene	15.82	91	3523603	73.6947	ug/L	98
82)	Bromobenzene	15.95	156	789220	51.0502	ug/L	92
83)	1,3,5-Trimethylbenzene	16.00	105	2573512	58.5144	ug/L	97
84)	2-Chlorotoluene	16.08	91	2108543	67.4673	ug/L	82
85)	4-Chlorotoluene	16.12	91	2242319	84.4265	ug/L	92
86)	a-Methylstyrene	16.37	118	1439285	71.4015	ug/L	98
87)	tert-Butylbenzene	16.43	134	541123	45.2475	ug/L	82
88)	1,2,4-Trimethylbenzene	16.48	105	2641906	59.9342	ug/L	97
89)	sec-Butylbenzene	16.68	105	3119465	74.7583	ug/L	99
90)	p-Isopropyltoluene	16.82	119	2683073	77.9324	ug/L	100
91)	1,3-Dichlorobenzene	17.02	146	1473284	66.7923	ug/L	99
92)	1,4-Dichlorobenzene	17.13	146	1474789	60.3359	ug/L	97
93)	n-Butylbenzene	17.31	91	2289580	78.9504	ug/L	100
94)	1,2-Dichlorobenzene	17.60	146	1359172	48.9071	ug/L	97
95)	1,2-Dibromo-3-Chloropropan	18.53	75	77910	47.7475	ug/L	88
96)	1,2,4-Trichlorobenzene	19.58	180	866126	72.2480	ug/L	96
97)	Hexachlorobutadiene	19.72	225	341410	52.9929	ug/L	97
98)	Naphthalene	19.93	128	1554282	62.9820	ug/L	100
99)	1,2,3-Trichlorobenzene	20.23	180	767794	52.1850	ug/L	97

(#) = qualifier out of range (m) = manual integration
11M02156.D 8260WTR.M Mon Jun 30 09:55:24 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02156.D Vial: 9
Acq On : 27 Jun 2014 18:38 Operator: FJB
Sample : WG482009-08 50ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:55 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration



11M02156.D 8260WTR.M Mon Jun 30 09:55:25 2014 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02157.D Vial: 10
Acq On : 27 Jun 2014 19:08 Operator: FJB
Sample : WG482009-09 100ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:25 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	1043781	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	821539	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.10	152	412390	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.66	111	689753	48.1335 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 192.52%#		
43) 1,2-Dichloroethane-d4	10.27	65	657868	39.1593 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 156.64%#		
57) Toluene-d8	12.51	98	2396363	52.3783 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 209.52%#		
78) p-Bromofluorobenzene	15.67	95	916809	48.4123 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 193.64%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	1228736	98.6739 ug/L	100
3) Chloromethane	3.74	50	1874435	107.3585 ug/L	98
4) Vinyl Chloride	3.98	62	1876504	93.3997 ug/L	98
5) 1,3-Butadiene	4.01	54	967510	56.4300 ug/L	90
6) Bromomethane	4.89	94	892682	88.0123 ug/L	99
7) Chloroethane	5.05	64	941601	91.5339 ug/L	94
8) Trichlorofluoromethane	5.52	101	2188492	94.3132 ug/L	100
9) Diethyl ether	6.04	59	1750721	165.8248 ug/L	93
10) Isoprene	6.08	67	1918248	92.7911 ug/L	87
11) Acrolein	6.28	56	116553	65.3770 ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.29	101	1357031	98.7823 ug/L	99
13) Acetone	6.38	43	190867	59.7852 ug/L	96
14) 1,1-Dichloroethene	6.60	61	2008957	85.7886 ug/L	87
15) Tert-Butyl Alcohol	6.69	59	217070	273.8936 ug/L	93
16) Dimethyl Sulfide	6.86	62	1385840	86.7948 ug/L	89
17) Iodomethane	7.10	142	1649677	161.0023 ug/L	97
18) Methyl acetate	7.10	43	665052	74.1954 ug/L	94
19) Methylene Chloride	7.35	84	1404229	88.9952 ug/L	78
20) Carbon Disulfide	7.40	76	4193388	136.8792 ug/L	99
21) Acrylonitrile	7.53	53	300990	78.3533 ug/L	98
22) Methyl Tert Butyl Ether	7.55	73	2946704	98.5772 ug/L	95
23) trans-1,2-Dichloroethene	7.80	96	1444063	96.3833 ug/L	83
24) n-Hexane	7.86	57	1673911	135.2626 ug/L	94
25) Diisopropyl ether	8.18	45	7657389	160.2262 ug/L	95
26) Vinyl Acetate	8.34	43	1145050	87.7366 ug/L	96
27) 1,1-Dichloroethane	8.39	63	2412243	87.3842 ug/L	98
28) Ethyl-Tert-Butyl ether	8.73	59	7044233	169.4298 ug/L	95
29) 2-Butanone	8.91	43	300823	68.2623 ug/L	92
30) Propionitrile	9.02	54	198777	144.6892 ug/L	99
31) 2,2-Dichloropropane	9.12	77	2139098	99.5004 ug/L	99
32) cis-1,2-Dichloroethene	9.19	96	1575516	95.9741 ug/L	83
33) Chloroform	9.39	83	2453756	89.1332 ug/L	100
34) 1-Bromopropane	9.52	122	268306	101.3242 ug/L	97
35) Bromochloromethane	9.61	130	932491	94.0169 ug/L	83
36) Tetrahydrofuran	9.64	42	397548	139.4296 ug/L	88
38) 1,1,1-Trichloroethane	9.89	97	2300774	99.1555 ug/L	96
39) Cyclohexane	9.93	56	2153510	81.7362 ug/L	85
40) 1,1-Dichloropropene	10.08	75	1924945	110.8253 ug/L	97
41) Carbon Tetrachloride	10.22	117	2127541	103.5152 ug/L	99
42) Tert-Amyl-Methyl ether	10.16	73	6079957	186.9023 ug/L	98

(#) = qualifier out of range (m) = manual integration
11M02157.D 8260WTR.M Mon Jun 30 10:05:05 2014 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02157.D Vial: 10
Acq On : 27 Jun 2014 19:08 Operator: FJB
Sample : WG482009-09 100ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:25 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

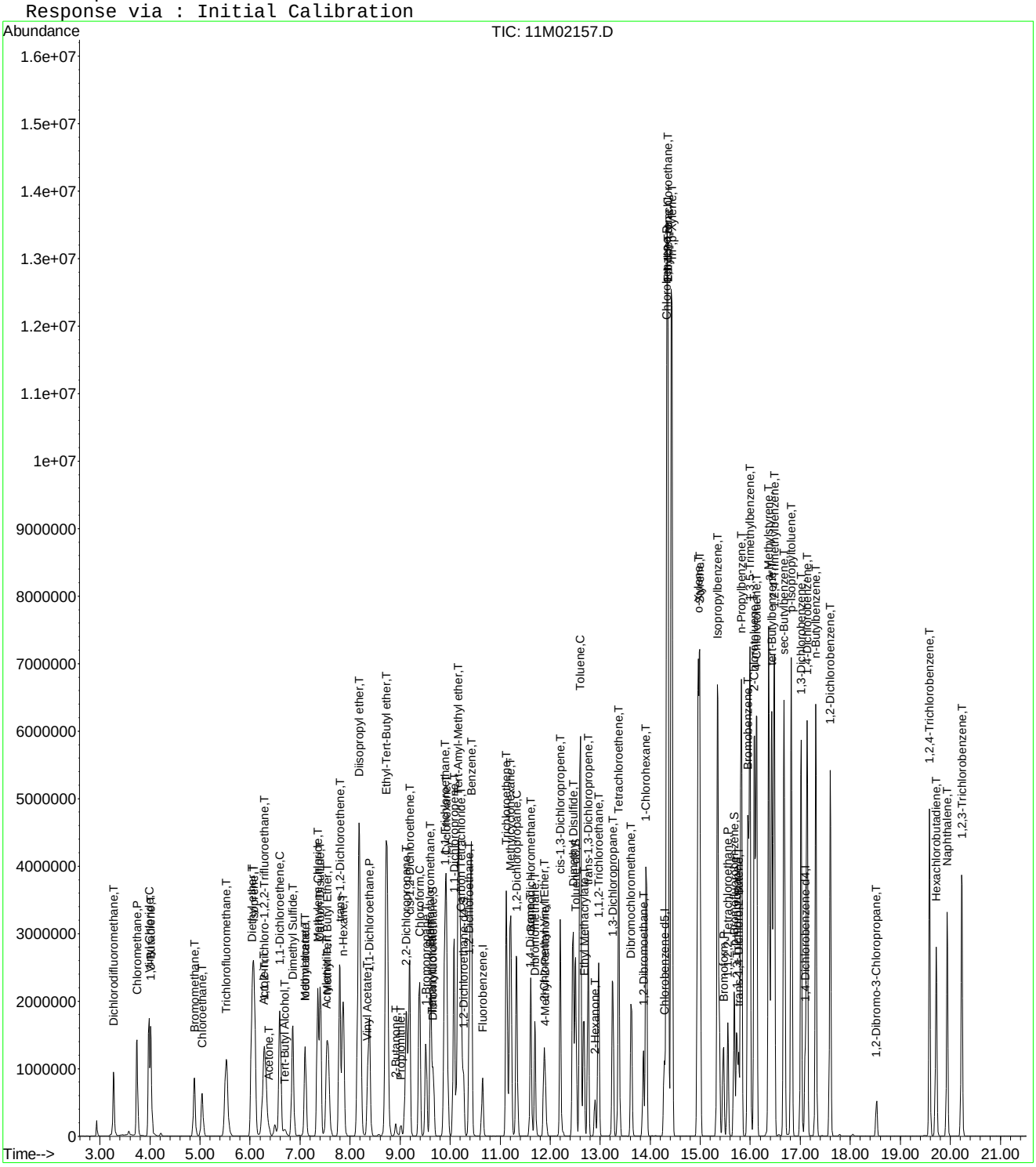
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	1,2-Dichloroethane	10.38	62	1653187	89.6929	ug/L	98
45)	Benzene	10.42	78	5187443	100.4244	ug/L	97
46)	Trichloroethene	11.13	130	1586733	94.5887	ug/L	96
47)	Methylcyclohexane	11.21	83	2177021	114.3934	ug/L	90
48)	1,2-Dichloropropane	11.33	63	1330214	90.3622	ug/L	98
49)	1,4-Dioxane	11.60	88	32194	282.5754	ug/L	87
50)	Bromodichloromethane	11.61	83	1868509	97.4598	ug/L	100
51)	Dibromomethane	11.69	93	742871	99.2205	ug/L	97
52)	2-Chloroethyl Vinyl Ether	11.88	63	601498	105.0398	ug/L	94
53)	4-Methyl-2-Pentanone	11.90	58	277677	89.0902	ug/L	95
54)	cis-1,3-Dichloropropene	12.20	75	2172179	114.8238	ug/L	99
55)	Dimethyl Disulfide	12.46	79	1189360	105.2453	ug/L	98
58)	Toluene	12.60	91	5538475	97.1082	ug/L	97
59)	Ethyl Methacrylate	12.68	69	1216464	108.4801	ug/L	90
60)	trans-1,3-Dichloropropene	12.76	75	1898922	107.7095	ug/L	95
61)	1,1,2-Trichloroethane	12.97	97	1016118	96.7049	ug/L	99
62)	2-Hexanone	12.89	43	442416	77.6036	ug/L	97
63)	1,3-Dichloropropane	13.26	76	1731421	91.2800	ug/L	91
64)	Tetrachloroethene	13.37	164	1239038	100.6120	ug/L	96
65)	Dibromochloromethane	13.62	129	1377652	114.8282	ug/L	99
66)	1,2-Dibromoethane	13.87	107	1026876	98.0177	ug/L	98
67)	1-Chlorohexane	13.92	91	1878030	108.5956	ug/L	87
68)	Chlorobenzene	14.33	112	4045349	132.1593	ug/L	96
69)	1,1,1,2-Tetrachloroethane	14.35	131	1554369	97.6848	ug/L	98
70)	Ethylbenzene	14.35	106	2389226	144.1752	ug/L	82
71)	m-,p-Xylene	14.43	106	5278826	273.4857	ug/L	80
72)	o-Xylene	14.96	106	2678040	97.1746	ug/L	91
73)	Styrene	14.99	104	4366818	120.8062	ug/L	100
74)	Bromoform	15.47	173	820882	113.2469	ug/L	99
75)	Isopropylbenzene	15.34	105	6129320	130.6229	ug/L	93
77)	1,1,2,2-Tetrachloroethane	15.55	83	1082463	98.2093	ug/L	98
79)	1,2,3-Trichloropropane	15.74	110	333888	96.7547	ug/L	94
80)	trans-1,4-Dichloro-2-Buten	15.77	53	309239	111.2649	ug/L	79
81)	n-Propylbenzene	15.82	91	6819114	137.2370	ug/L	93
82)	Bromobenzene	15.95	156	1678391	104.4689	ug/L	94
83)	1,3,5-Trimethylbenzene	16.00	105	5235410	114.5464	ug/L	93
84)	2-Chlorotoluene	16.08	91	4303371	132.4993	ug/L	79
85)	4-Chlorotoluene	16.12	91	4570204m	165.5813	ug/L	
86)	a-Methylstyrene	16.37	118	3051485	145.6687	ug/L	98
87)	tert-Butylbenzene	16.43	134	1158227	93.1937	ug/L	79
88)	1,2,4-Trimethylbenzene	16.48	105	5307981	115.8727	ug/L	93
89)	sec-Butylbenzene	16.68	105	6176630	142.4377	ug/L	96
90)	p-Isopropyltoluene	16.82	119	5357928	149.7533	ug/L	97
91)	1,3-Dichlorobenzene	17.02	146	3079384	134.3377	ug/L	100
92)	1,4-Dichlorobenzene	17.13	146	3046139	119.9195	ug/L	99
93)	n-Butylbenzene	17.31	91	4604198	152.7731	ug/L	97
94)	1,2-Dichlorobenzene	17.60	146	2812870	97.3960	ug/L	99
95)	1,2-Dibromo-3-Chloropropan	18.52	75	167146	98.5707	ug/L	89
96)	1,2,4-Trichlorobenzene	19.58	180	1832074	147.0558	ug/L	97
97)	Hexachlorobutadiene	19.72	225	721708	107.7947	ug/L	97
98)	Naphthalene	19.93	128	3316529	129.3196	ug/L	98
99)	1,2,3-Trichlorobenzene	20.23	180	1628970	106.5389	ug/L	96

(#) = qualifier out of range (m) = manual integration
11M02157.D 8260WTR.M Mon Jun 30 10:05:05 2014 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02157.D Vial: 10
Acq On : 27 Jun 2014 19:08 Operator: FJB
Sample : WG482009-09 100ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:04 2014 Quant Results File: 8260WTR.RES

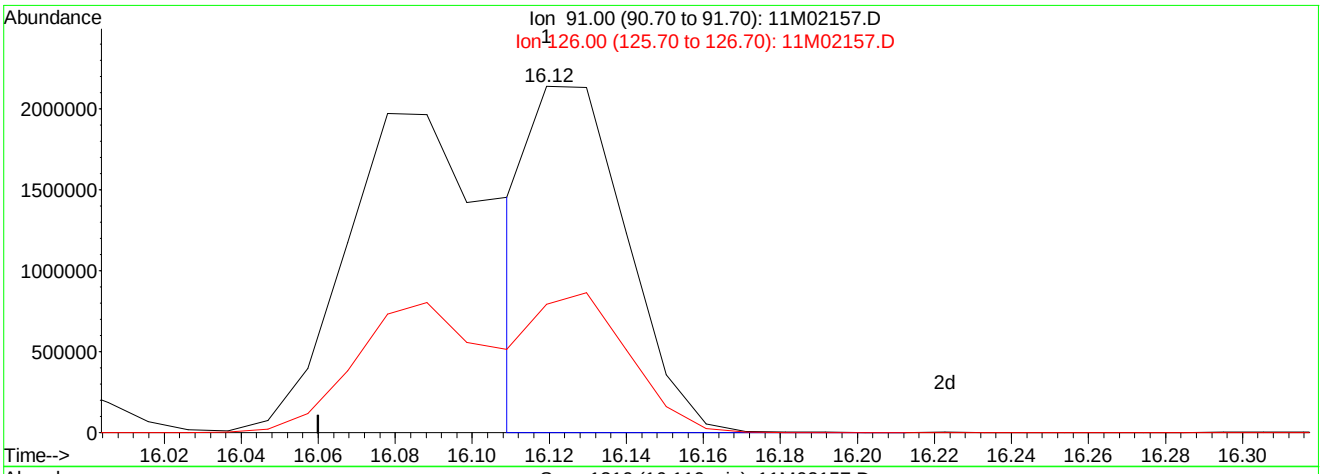
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration

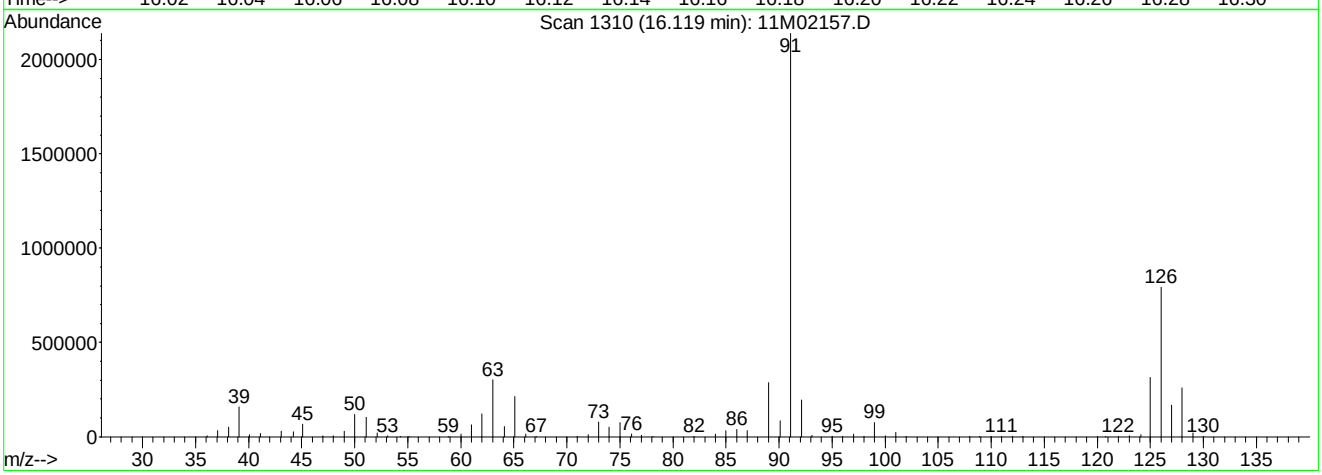


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\062714\11M02157.D Vial: 10
Acq On : 27 Jun 2014 19:08 Operator: FJB
Sample : WG482009-09 100ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:55 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Multiple Level Calibration





TIC: 11M02157.D

(85) 4-Chlorotoluene (T)

16.12min 132.99ug/L

response 3670717

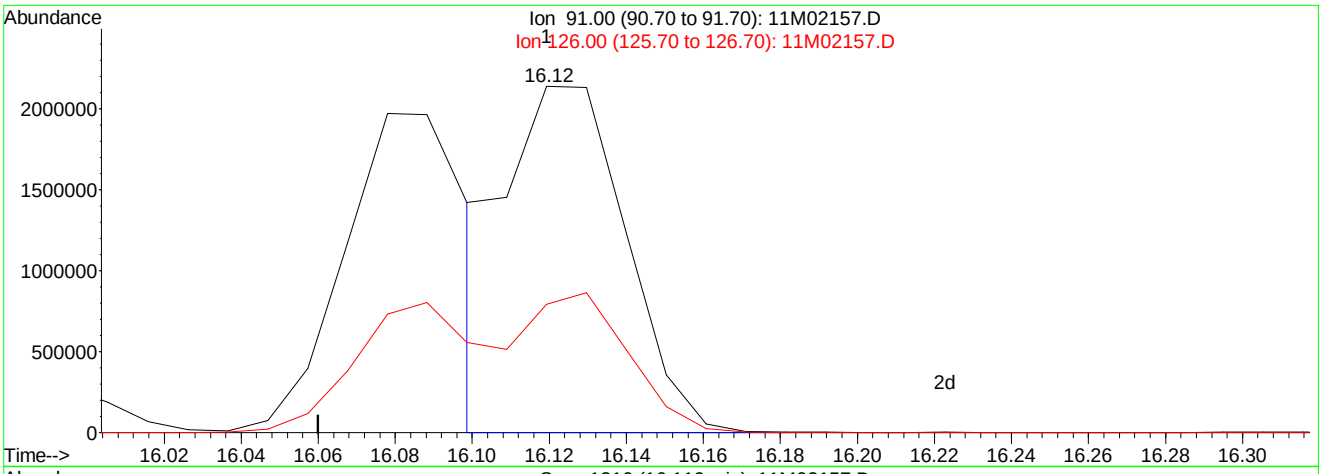
Ion	Exp%	Act%
91.00	100	100
126.00	34.70	39.70
0.00	0.00	0.00
0.00	0.00	0.00

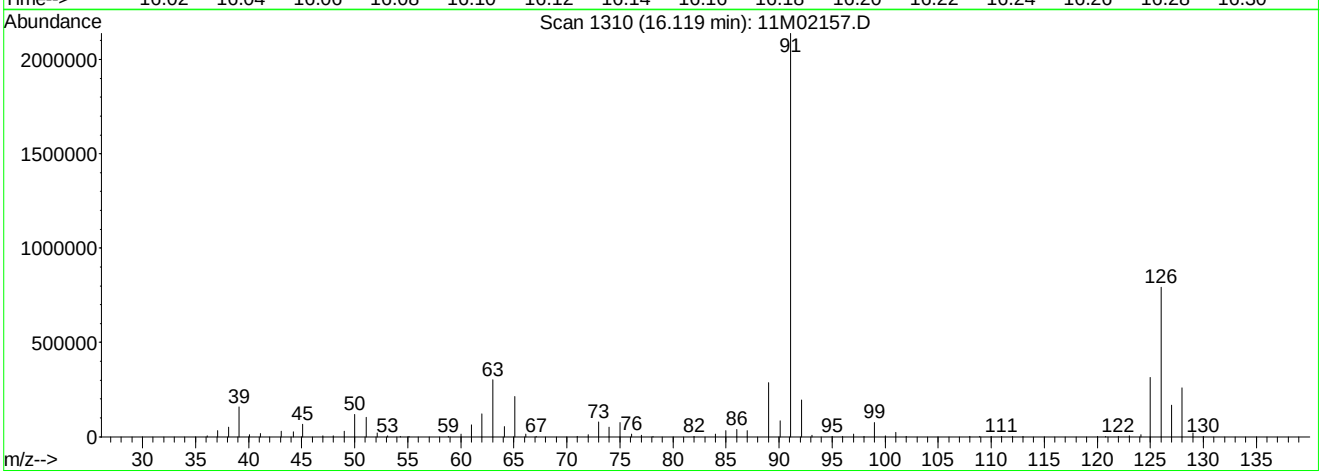
11M02157.D 8260WTR.M Mon Jun 30 10:04:50 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\062714\11M02157.D Vial: 10
Acq On : 27 Jun 2014 19:08 Operator: FJB
Sample : WG482009-09 100ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:04 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Multiple Level Calibration





TIC: 11M02157.D

(85) 4-Chlorotoluene (T)

16.12min 165.58ug/L mint

response 4570204

Ion	Exp%	Act%
91.00	100	100
126.00	34.70	31.88
0.00	0.00	0.00
0.00	0.00	0.00

11M02157.D 8260WTR.M Mon Jun 30 .4

Analyst: 06/30/2014 14:36 Supervisor: 06/30/2014 15:39

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02158.D Vial: 11
Acq On : 27 Jun 2014 19:38 Operator: FJB
Sample : WG482009-10 200ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:28 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	1056118	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	808435	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.10	152	414345	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.66	111	1391536	95.9721 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 383.88%#		
43) 1,2-Dichloroethane-d4	10.27	65	1306838	76.8802 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 307.52%#		
57) Toluene-d8	12.51	98	4755763	105.6336 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 422.52%#		
78) p-Bromofluorobenzene	15.67	95	1861403	97.8281 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 391.32%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	2468775	195.9396 ug/L	100
3) Chloromethane	3.74	50	3696899	209.2668 ug/L	97
4) Vinyl Chloride	3.98	62	3604649	177.3193 ug/L	96
5) 1,3-Butadiene	4.01	54	1734703	99.9946 ug/L	90
6) Bromomethane	4.88	94	1964663	191.4394 ug/L	99
7) Chloroethane	5.04	64	1920558	184.5182 ug/L	93
8) Trichlorofluoromethane	5.52	101	4424632	188.4524 ug/L	100
9) Diethyl ether	6.05	59	9946	0.9311 ug/L	91
10) Isoprene	6.08	67	3925306	187.6601 ug/L	87
11) Acrolein	6.29	56	3618	2.0057 ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	6.29	101	2744697	197.4607 ug/L	99
13) Acetone	6.37	43	372017	115.1655 ug/L	93
14) 1,1-Dichloroethene	6.60	61	4053588	171.0785 ug/L	86
15) Tert-Butyl Alcohol	6.72	59	12257	15.2849 ug/L #	82
16) Dimethyl Sulfide	6.86	62	2781170	172.1492 ug/L	89
17) Iodomethane	7.10	142	3341496	322.3080 ug/L	96
18) Methyl acetate	7.10	43	1282805	141.4422 ug/L	92
19) Methylene Chloride	7.35	84	2795620	175.1070 ug/L	77
20) Carbon Disulfide	7.40	76	7949575	256.4562 ug/L	97
21) Acrylonitrile	7.55	53	58648	15.0888 ug/L #	40
22) Methyl Tert Butyl Ether	7.55	73	5690630	188.1470 ug/L	96
23) trans-1,2-Dichloroethene	7.79	96	2907151	191.7699 ug/L	81
24) n-Hexane	7.86	57	3364885	268.7277 ug/L	93
25) Diisopropyl ether	8.19	45	19135	0.3957 ug/L	97
26) Vinyl Acetate	8.34	43	2192224	166.0116 ug/L	96
27) 1,1-Dichloroethane	8.39	63	4715347	168.8194 ug/L	97
28) Ethyl-Tert-Butyl ether	8.74	59	45264	1.0760 ug/L #	80
29) 2-Butanone	8.91	43	574108	128.7539 ug/L	88
30) Propionitrile	9.03	54	7583	5.4552 ug/L #	1
31) 2,2-Dichloropropane	9.13	77	4294393	197.4207 ug/L	98
32) cis-1,2-Dichloroethene	9.19	96	3154709	189.9274 ug/L	82
33) Chloroform	9.39	83	4782343	171.6903 ug/L	98
34) 1-Bromopropane	9.51	122	551706	205.9148 ug/L	96
35) Bromochloromethane	9.61	130	1852642	184.6076 ug/L	83
36) Tetrahydrofuran	9.65	42	10933	3.7897 ug/L	85
38) 1,1,1-Trichloroethane	9.89	97	4654979	198.2703 ug/L	97
39) Cyclohexane	9.93	56	4381967	164.3742 ug/L	85
40) 1,1-Dichloropropene	10.08	75	3839033	218.4436 ug/L	95
41) Carbon Tetrachloride	10.22	117	4222376	203.0393 ug/L	99
42) Tert-Amyl-Methyl ether	10.17	73	29626	0.9001 ug/L #	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02158.D Vial: 11
Acq On : 27 Jun 2014 19:38 Operator: FJB
Sample : WG482009-10 200ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 09:55:28 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

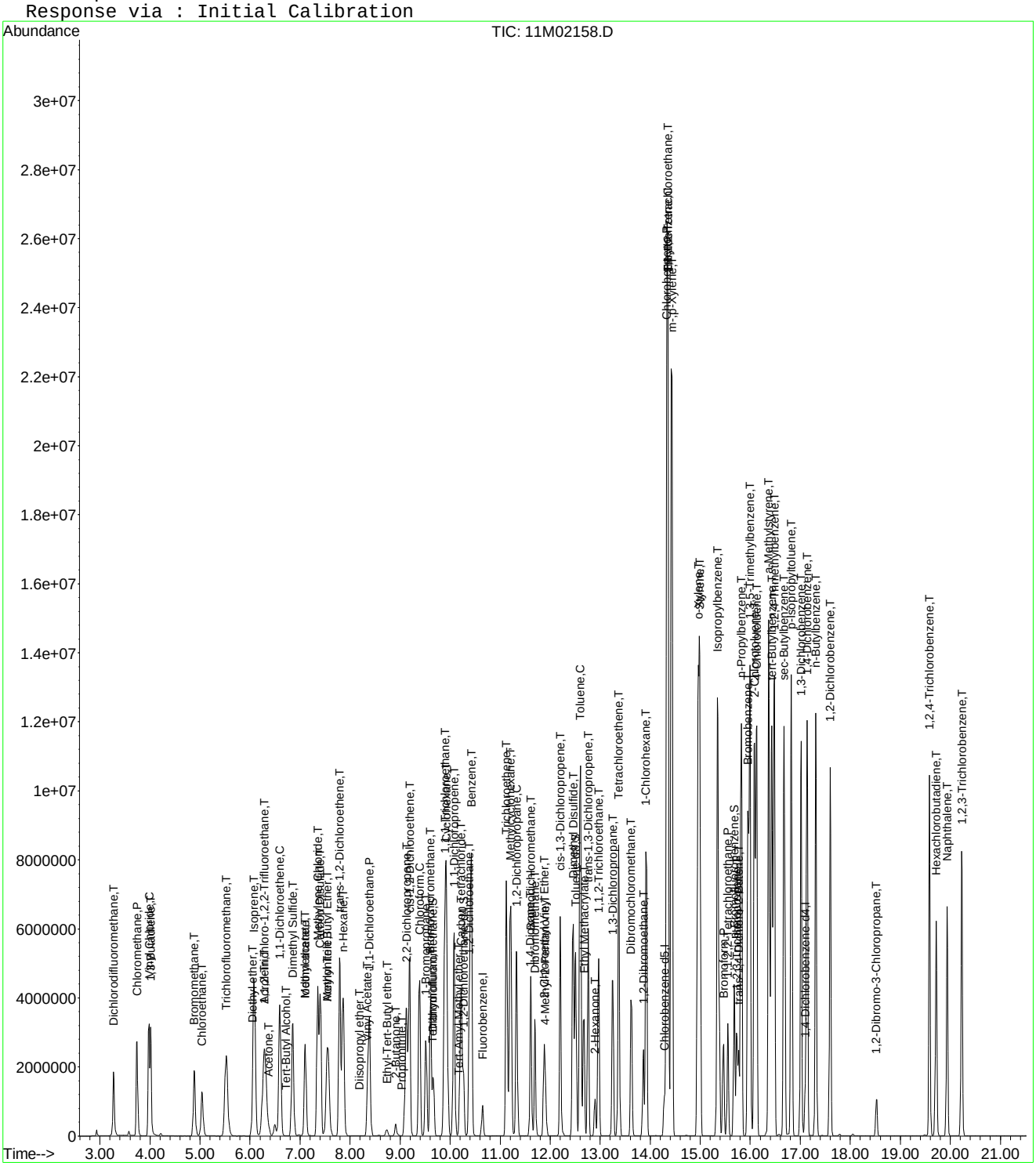
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	1,2-Dichloroethane	10.38	62	3202076	171.6977 ug/L		98
45)	Benzene	10.42	78	9340933	178.7199 ug/L		90
46)	Trichloroethene	11.13	130	3199861	188.5225 ug/L		97
47)	Methylcyclohexane	11.21	83	4355321	226.1807 ug/L		91
48)	1,2-Dichloropropane	11.33	63	2650654	177.9572 ug/L		98
49)	1,4-Dioxane	11.60	88	6749	58.5458 ug/L	#	50
50)	Bromodichloromethane	11.61	83	3669942	189.1848 ug/L		98
51)	Dibromomethane	11.69	93	1470934	194.1683 ug/L		97
52)	2-Chloroethyl Vinyl Ether	11.88	63	1203212	207.6629 ug/L		94
53)	4-Methyl-2-Pentanone	11.90	58	548900	174.0525 ug/L		95
54)	cis-1,3-Dichloropropene	12.20	75	4228588	220.9168 ug/L		97
55)	Dimethyl Disulfide	12.46	79	2450261	214.2884 ug/L		94
58)	Toluene	12.60	91	9499510	169.2584 ug/L		88
59)	Ethyl Methacrylate	12.68	69	2410402	218.4355 ug/L		89
60)	trans-1,3-Dichloropropene	12.76	75	3702513	213.4158 ug/L		93
61)	1,1,2-Trichloroethane	12.97	97	2029884	196.3174 ug/L		100
62)	2-Hexanone	12.89	43	872095	155.4525 ug/L		97
63)	1,3-Dichloropropane	13.26	76	3338460	178.8554 ug/L		92
64)	Tetrachloroethene	13.37	164	2523688	208.2494 ug/L		97
65)	Dibromochloromethane	13.62	129	2746231	232.6104 ug/L		98
66)	1,2-Dibromoethane	13.87	107	2032620	197.1631 ug/L		98
67)	1-Chlorohexane	13.92	91	3820660	224.5076 ug/L		89
68)	Chlorobenzene	14.33	112	7583749	251.7728 ug/L		88
69)	1,1,1,2-Tetrachloroethane	14.35	131	3266554	208.6152 ug/L		98
70)	Ethylbenzene	14.35	106	4969226	304.7230 ug/L		55
71)	m-,p-Xylene	14.43	106	9295611	489.3935 ug/L		61
72)	o-Xylene	14.96	106	5368414	197.9542 ug/L		76
73)	Styrene	14.99	104	8016559	225.3695 ug/L		92
74)	Bromoform	15.47	173	1616848	226.6721 ug/L		98
75)	Isopropylbenzene	15.34	105	10303748	223.1441 ug/L		80
77)	1,1,2,2-Tetrachloroethane	15.55	83	2084092	188.1925 ug/L		99
79)	1,2,3-Trichloropropane	15.74	110	652114	188.0792 ug/L		95
80)	trans-1,4-Dichloro-2-Buten	15.77	53	622772	223.0176 ug/L		91
81)	n-Propylbenzene	15.82	91	10887421	218.0792 ug/L	#	78
82)	Bromobenzene	15.95	156	3346094	207.2898 ug/L		92
83)	1,3,5-Trimethylbenzene	16.00	105	9029770	196.6316 ug/L		83
84)	2-Chlorotoluene	16.09	91	9258065m	283.7077 ug/L		
85)	4-Chlorotoluene	16.13	91	6277816	226.3759 ug/L		80
86)	a-Methylstyrene	16.37	118	5817444	276.3969 ug/L		93
87)	tert-Butylbenzene	16.43	134	2335585	187.0400 ug/L		69
88)	1,2,4-Trimethylbenzene	16.48	105	8976476	195.0310 ug/L		80
89)	sec-Butylbenzene	16.68	105	10201026	234.1333 ug/L		85
90)	p-Isopropyltoluene	16.82	119	9094275	252.9843 ug/L		87
91)	1,3-Dichlorobenzene	17.02	146	5735004	249.0083 ug/L		95
92)	1,4-Dichlorobenzene	17.13	146	5670796	222.1928 ug/L		96
93)	n-Butylbenzene	17.31	91	8145531	269.0037 ug/L		90
94)	1,2-Dichlorobenzene	17.60	146	5247726	180.8459 ug/L		97
95)	1,2-Dibromo-3-Chloropropan	18.52	75	347476	203.9496 ug/L		89
96)	1,2,4-Trichlorobenzene	19.58	180	3845851	307.2399 ug/L		100
97)	Hexachlorobutadiene	19.72	225	1563080	232.3610 ug/L		97
98)	Naphthalene	19.93	128	6349801	246.4262 ug/L	#	94
99)	1,2,3-Trichlorobenzene	20.23	180	3343244	217.6253 ug/L		99

(#) = qualifier out of range (m) = manual integration
11M02158.D 8260WTR.M Mon Jun 30 10:06:49 2014 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02158.D Vial: 11
Acq On : 27 Jun 2014 19:38 Operator: FJB
Sample : WG482009-10 200ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:06 2014 Quant Results File: 8260WTR.RES

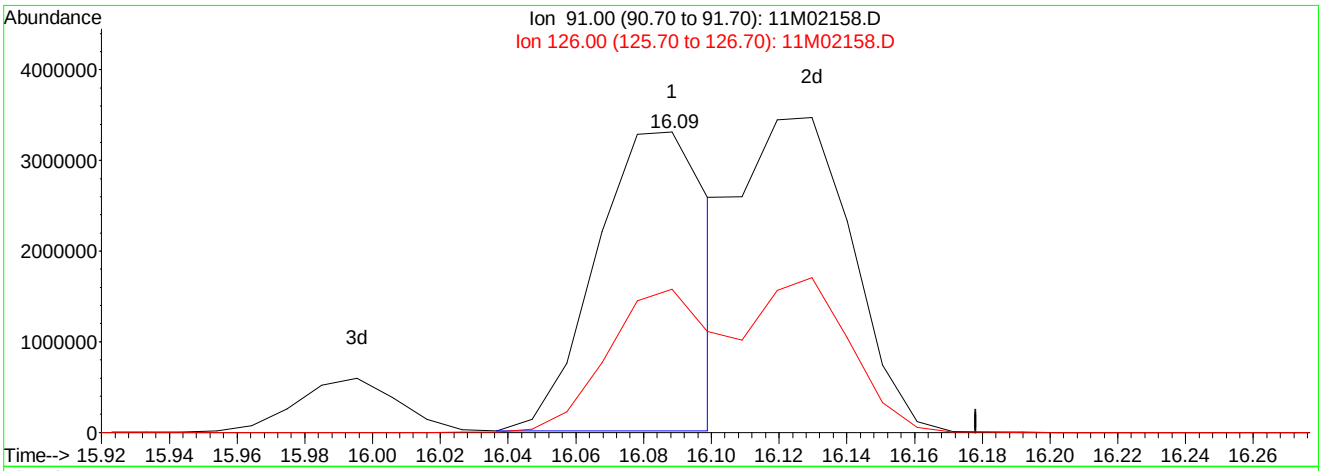
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Initial Calibration

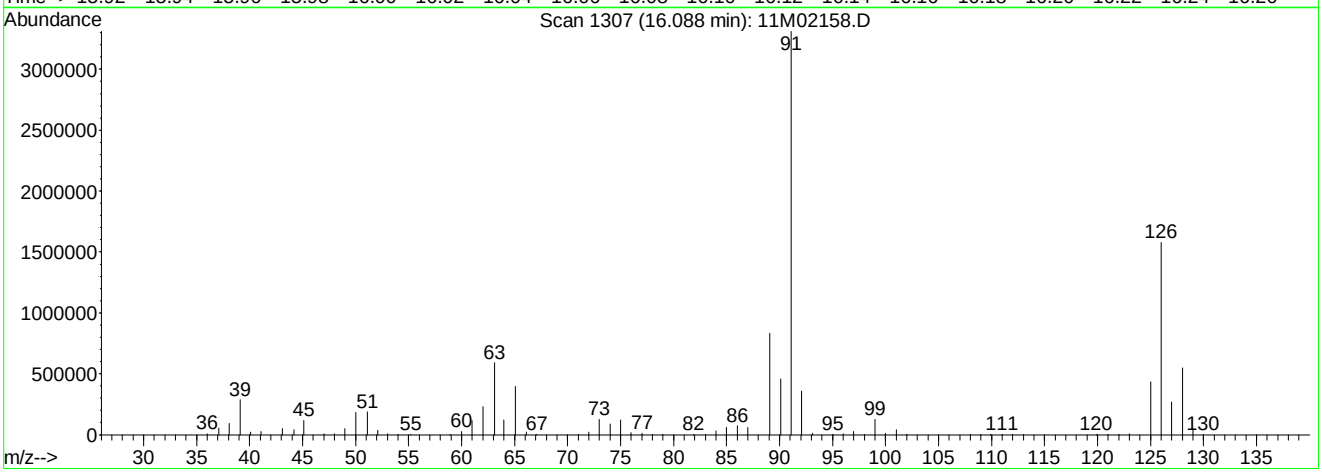


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\062714\11M02158.D Vial: 11
Acq On : 27 Jun 2014 19:38 Operator: FJB
Sample : WG482009-10 200ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:55 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Multiple Level Calibration





TIC: 11M02158.D

(84) 2-Chlorotoluene (T)

16.09min 232.16ug/L

response 7575908

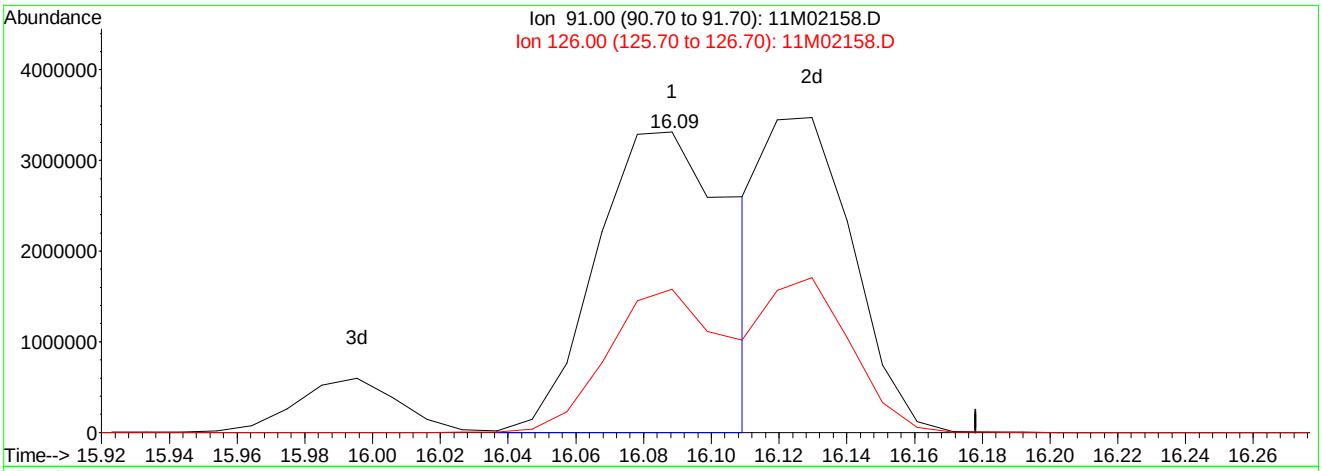
Ion	Exp%	Act%
91.00	100	100
126.00	33.00	50.79#
0.00	0.00	0.00
0.00	0.00	0.00

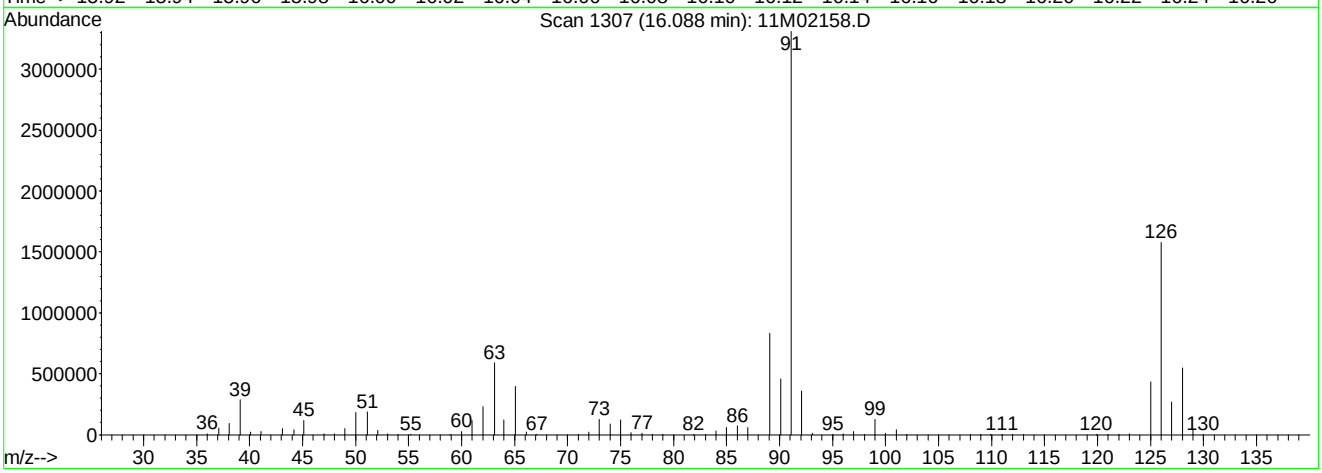
11M02158.D 8260WTR.M Mon Jun 30 10:06:34 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\062714\11M02158.D Vial: 11
Acq On : 27 Jun 2014 19:38 Operator: FJB
Sample : WG482009-10 200ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:06 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 09:53:52 2014
Response via : Multiple Level Calibration





TIC: 11M02158.D

(84) 2-Chlorotoluene (T)

16.09min 283.71ug/L mint

response 9258065

Ion	Exp%	Act%
91.00	100	100
126.00	33.00	41.56
0.00	0.00	0.00
0.00	0.00	0.00

11M02158.D 8260WTR.M Mon Jun 30 .4

Analyst: 06/30/2014 14:36 Supervisor: 06/30/2014 15:40

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02159.D Vial: 12
Acq On : 27 Jun 2014 20:09 Operator: FJB
Sample : WG482009-11 300ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:09:00 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:08:56 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	1046690	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	814634	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.10	152	426086	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.66	111	2077785	144.5925 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 578.36%#		
43) 1,2-Dichloroethane-d4	10.27	65	1946024	115.5142 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 462.04%#		
57) Toluene-d8	12.51	98	6719616	148.1184 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 592.48%#		
78) p-Bromofluorobenzene	15.67	95	2784415	142.3056 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 569.24%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	3636816	291.2436 ug/L	99
3) Chloromethane	3.73	50	4959822	283.2848 ug/L	95
4) Vinyl Chloride	3.97	62	4986776	247.5182 ug/L	93
5) 1,3-Butadiene	4.01	54	2446134	142.2742 ug/L	90
6) Bromomethane	4.88	94	2961043	291.1269 ug/L	99
7) Chloroethane	5.04	64	2838893	275.2043 ug/L	93
8) Trichlorofluoromethane	5.52	101	6449861	277.1847 ug/L	98
9) Diethyl ether	6.04	59	2613611	246.8680 ug/L	93
10) Isoprene	6.08	67	5917645	285.4576 ug/L	87
11) Acrolein	6.28	56	179430	100.3662 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.29	101	4135933	300.2300 ug/L	99
13) Acetone	6.37	43	569142	177.7767 ug/L	94
14) 1,1-Dichloroethene	6.60	61	5925108	252.3169 ug/L	85
15) Tert-Butyl Alcohol	6.70	59	298725	375.8764 ug/L	94
16) Dimethyl Sulfide	6.84	62	4154167	259.4513 ug/L	89
17) Iodomethane	7.10	142	4793860	466.5625 ug/L	95
18) Methyl acetate	7.10	43	1989710	221.3617 ug/L	92
19) Methylene Chloride	7.35	84	4177974	264.0496 ug/L	75
20) Carbon Disulfide	7.40	76	10562193	343.8095 ug/L	92
21) Acrylonitrile	7.53	53	480061	124.6215 ug/L	92
22) Methyl Tert Butyl Ether	7.55	73	8428839	281.1895 ug/L	97
23) trans-1,2-Dichloroethene	7.79	96	4305354	286.5603 ug/L	80
24) n-Hexane	7.86	57	5002842	403.1377 ug/L	92
25) Diisopropyl ether	8.18	45	10728016	223.8533 ug/L	92
26) Vinyl Acetate	8.34	43	3256534	248.8304 ug/L	95
27) 1,1-Dichloroethane	8.39	63	6870854	248.2069 ug/L	95
28) Ethyl-Tert-Butyl ether	8.73	59	9983138	239.4499 ug/L	94
29) 2-Butanone	8.91	43	884246	200.0941 ug/L	89
30) Propionitrile	9.02	54	287230	208.4928 ug/L	96
31) 2,2-Dichloropropane	9.12	77	6325056	293.3930 ug/L	97
32) cis-1,2-Dichloroethene	9.19	96	4689427	284.8672 ug/L	80
33) Chloroform	9.39	83	6883468	249.3485 ug/L	96
34) 1-Bromopropane	9.51	122	822230	309.6475 ug/L	97
35) Bromochloromethane	9.61	130	2798125	281.3322 ug/L	82
36) Tetrahydrofuran	9.64	42	578087	202.1854 ug/L	87
38) 1,1,1-Trichloroethane	9.89	97	6825668	293.3455 ug/L	97
39) Cyclohexane	9.93	56	6500664	246.0462 ug/L	84
40) 1,1-Dichloropropene	10.08	75	5623635	322.8710 ug/L	94
41) Carbon Tetrachloride	10.22	117	6247919	303.1469 ug/L	99
42) Tert-Amyl-Methyl ether	10.16	73	8658109	265.4168 ug/L	99

(#) = qualifier out of range (m) = manual integration
11M02159.D 8260WTR.M Mon Jun 30 10:29:34 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02159.D Vial: 12
Acq On : 27 Jun 2014 20:09 Operator: FJB
Sample : WG482009-11 300ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:09:00 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:08:56 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

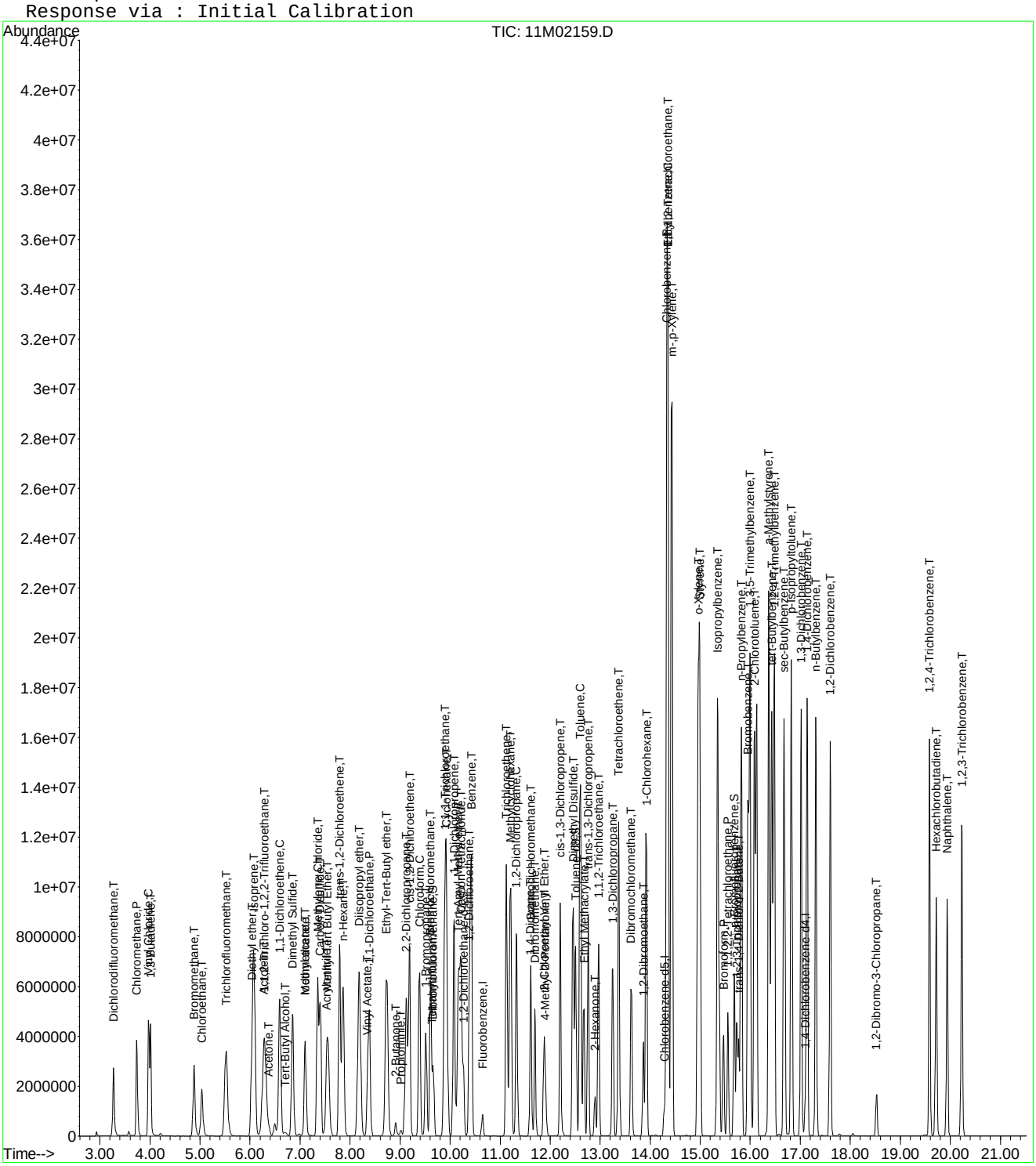
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	1,2-Dichloroethane	10.38	62	4702578	254.4270 ug/L		98
45)	Benzene	10.42	78	12181295	235.1638 ug/L		82
46)	Trichloroethene	11.13	130	4705132	279.7038 ug/L		97
47)	Methylcyclohexane	11.21	83	6426317	336.7379 ug/L		91
48)	1,2-Dichloropropane	11.32	63	3950939	267.6437 ug/L		96
49)	1,4-Dioxane	11.60	88	50101	438.5278 ug/L		83
50)	Bromodichloromethane	11.61	83	5373899	279.5188 ug/L		96
51)	Dibromomethane	11.69	93	2199404	292.9439 ug/L		97
52)	2-Chloroethyl Vinyl Ether	11.88	63	1844799	321.2626 ug/L		94
53)	4-Methyl-2-Pentanone	11.90	58	824323	263.7417 ug/L		94
54)	cis-1,3-Dichloropropene	12.20	75	6076914	320.3398 ug/L		93
55)	Dimethyl Disulfide	12.46	79	3735530	329.6346 ug/L		89
58)	Toluene	12.60	91	11956177	211.4092 ug/L		80
59)	Ethyl Methacrylate	12.68	69	3583696	322.2905 ug/L		89
60)	trans-1,3-Dichloropropene	12.76	75	5350880	306.0819 ug/L		90
61)	1,1,2-Trichloroethane	12.97	97	3030975	290.9059 ug/L		99
62)	2-Hexanone	12.89	43	1298933	229.7753 ug/L		96
63)	1,3-Dichloropropane	13.26	76	4891127	260.0444 ug/L		94
64)	Tetrachloroethene	13.37	164	3763381	308.1831 ug/L		97
65)	Dibromochloromethane	13.62	129	4079404	342.9031 ug/L		97
66)	1,2-Dibromoethane	13.87	107	3036831	292.3295 ug/L		98
67)	1-Chlorohexane	13.93	91	5513560	321.5196 ug/L		90
68)	Chlorobenzene	14.33	112	9892795	325.9316 ug/L		78
69)	1,1,1,2-Tetrachloroethane	14.35	131	4838101	306.6292 ug/L		99
70)	Ethylbenzene	14.35	106	7114624	432.9632 ug/L	#	38
71)	m-,p-Xylene	14.43	106	11563370	604.1535 ug/L		56
72)	o-Xylene	14.96	106	7616603	278.7164 ug/L		65
73)	Styrene	14.99	104	10421655	290.7544 ug/L		82
74)	Bromoform	15.47	173	2442805	339.8601 ug/L		97
75)	Isopropylbenzene	15.34	105	12701402	272.9759 ug/L	#	67
77)	1,1,2,2-Tetrachloroethane	15.55	83	3153860	276.9444 ug/L		98
79)	1,2,3-Trichloropropane	15.74	110	1005343	281.9658 ug/L		96
80)	trans-1,4-Dichloro-2-Buten	15.77	53	972866	338.7879 ug/L		92
81)	n-Propylbenzene	15.82	91	13171511	256.5604 ug/L	#	63
82)	Bromobenzene	15.95	156	4949763	298.1872 ug/L		89
83)	1,3,5-Trimethylbenzene	16.00	105	11542338	244.4192 ug/L		74
84)	2-Chlorotoluene	16.09	91	11483751	342.2154 ug/L	#	73
86)	a-Methylstyrene	16.37	118	8171965	377.5655 ug/L		87
87)	tert-Butylbenzene	16.43	134	3589288	279.5193 ug/L		56
88)	1,2,4-Trimethylbenzene	16.48	105	11372938	240.2898 ug/L	#	66
89)	sec-Butylbenzene	16.68	105	12731421	284.1588 ug/L	#	73
90)	p-Isopropyltoluene	16.82	119	11491541	310.8627 ug/L	#	73
91)	1,3-Dichlorobenzene	17.02	146	7993010	337.4856 ug/L		87
92)	1,4-Dichlorobenzene	17.13	146	7873920	300.0142 ug/L		88
93)	n-Butylbenzene	17.31	91	10460837	335.9466 ug/L	#	79
94)	1,2-Dichlorobenzene	17.60	146	7523569	252.1310 ug/L		90
95)	1,2-Dibromo-3-Chloropropan	18.52	75	547852	312.6987 ug/L		88
96)	1,2,4-Trichlorobenzene	19.58	180	5656622	439.4477 ug/L		96
97)	Hexachlorobutadiene	19.72	225	2377740	343.7251 ug/L		96
98)	Naphthalene	19.93	128	8650451	326.4602 ug/L	#	89
99)	1,2,3-Trichlorobenzene	20.23	180	4982002	315.3625 ug/L		98

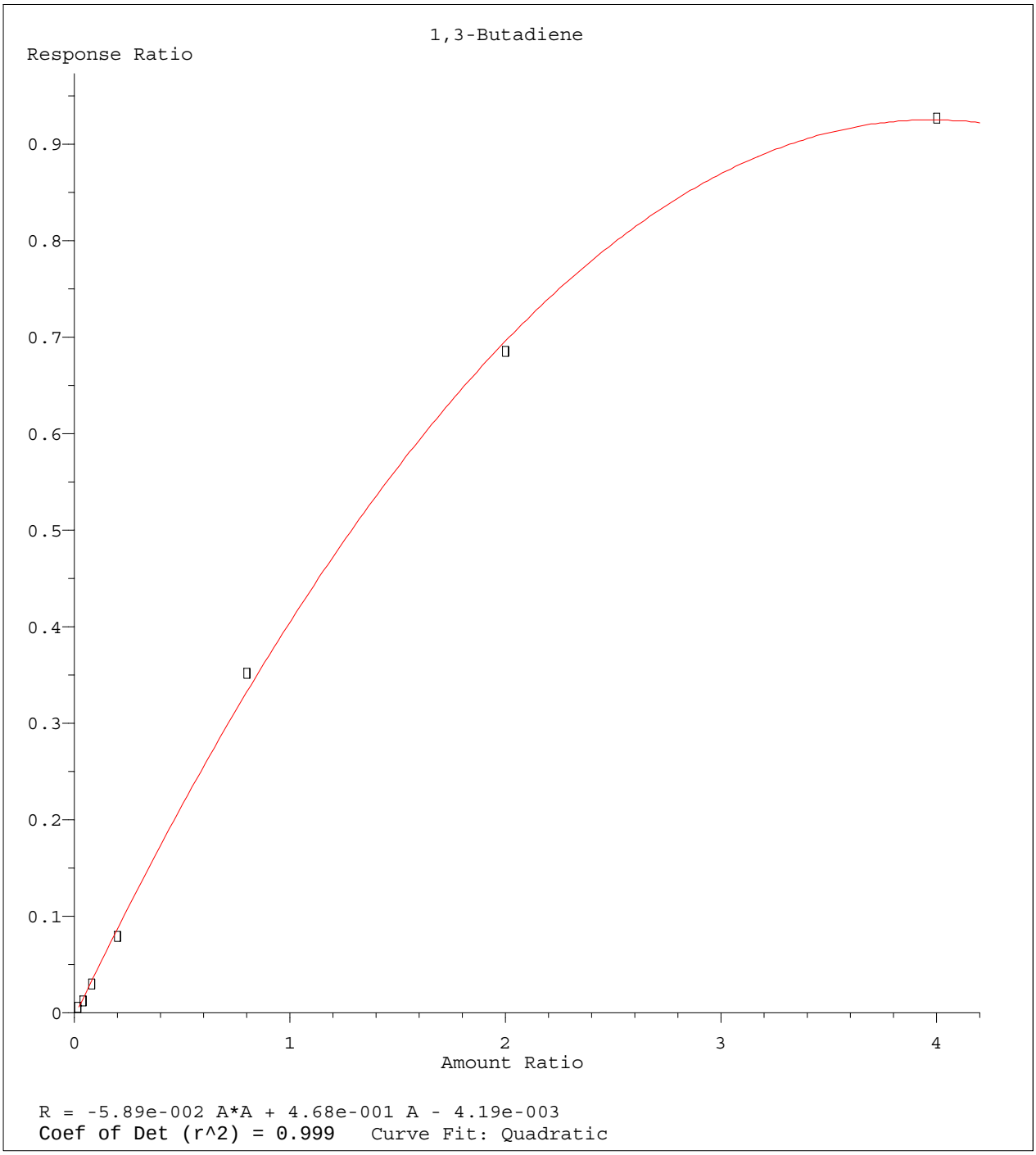
(#) = qualifier out of range (m) = manual integration
11M02159.D 8260WTR.M Mon Jun 30 10:29:34 2014 Page 2

Quantitation Report (Not Reviewed)

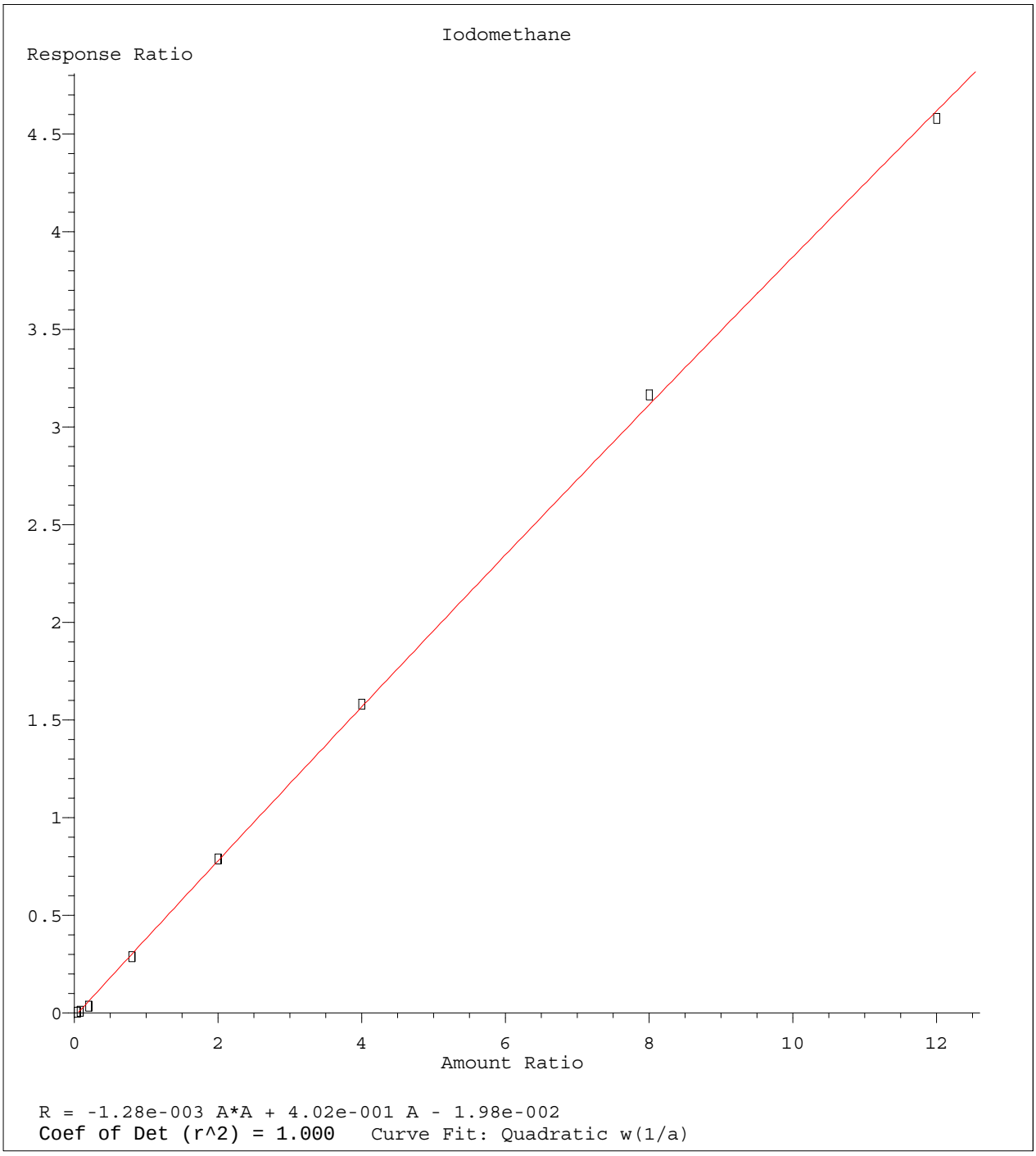
Data File : C:\MSDCHEM\1\DATA\062714\11M02159.D Vial: 12
Acq On : 27 Jun 2014 20:09 Operator: FJB
Sample : WG482009-11 300ug/L STD 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:09 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:26:20 2014
Response via : Initial Calibration

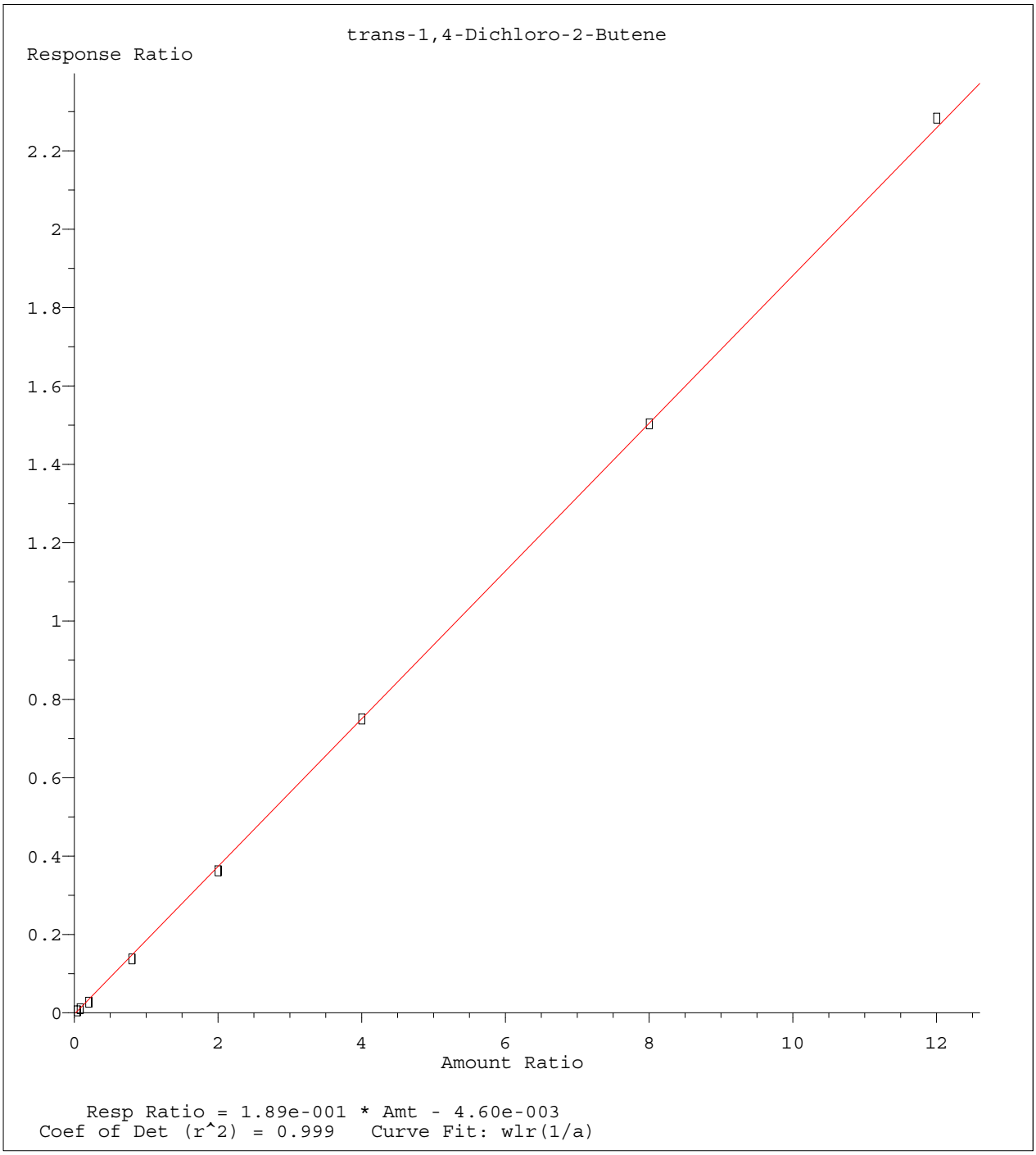




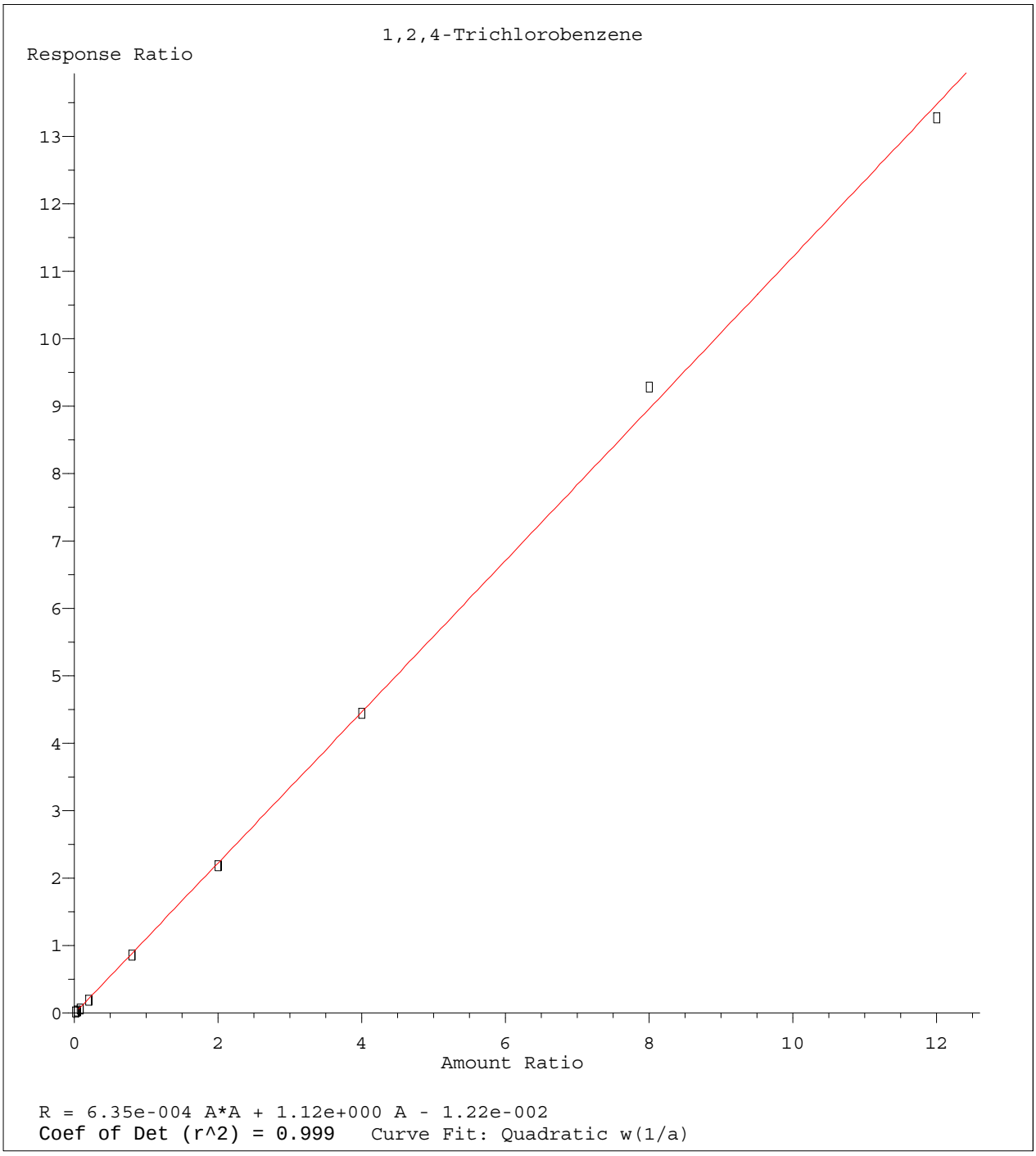
Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Mon Jun 30 10:39:17 2014



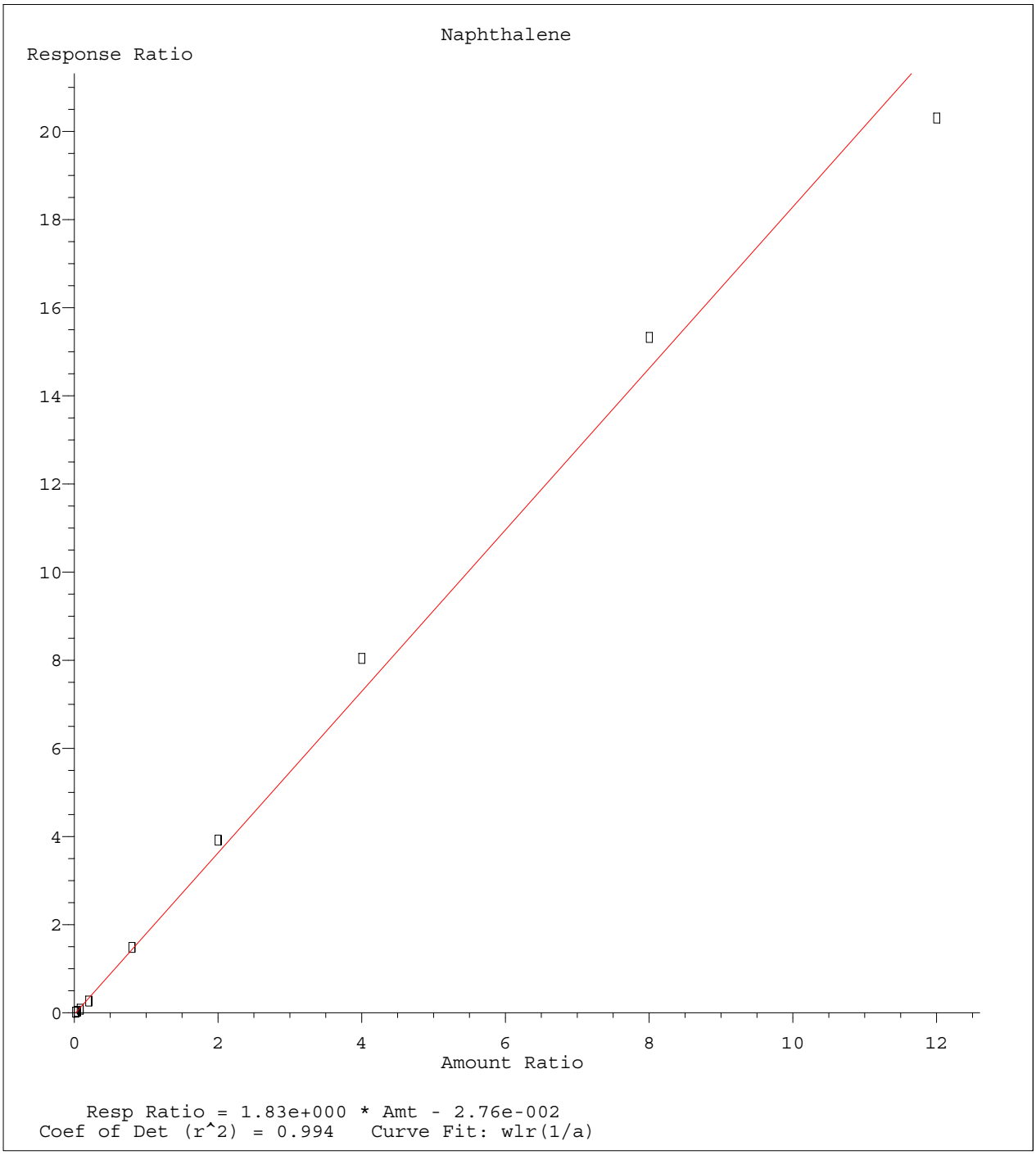
Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Mon Jun 30 10:39:17 2014



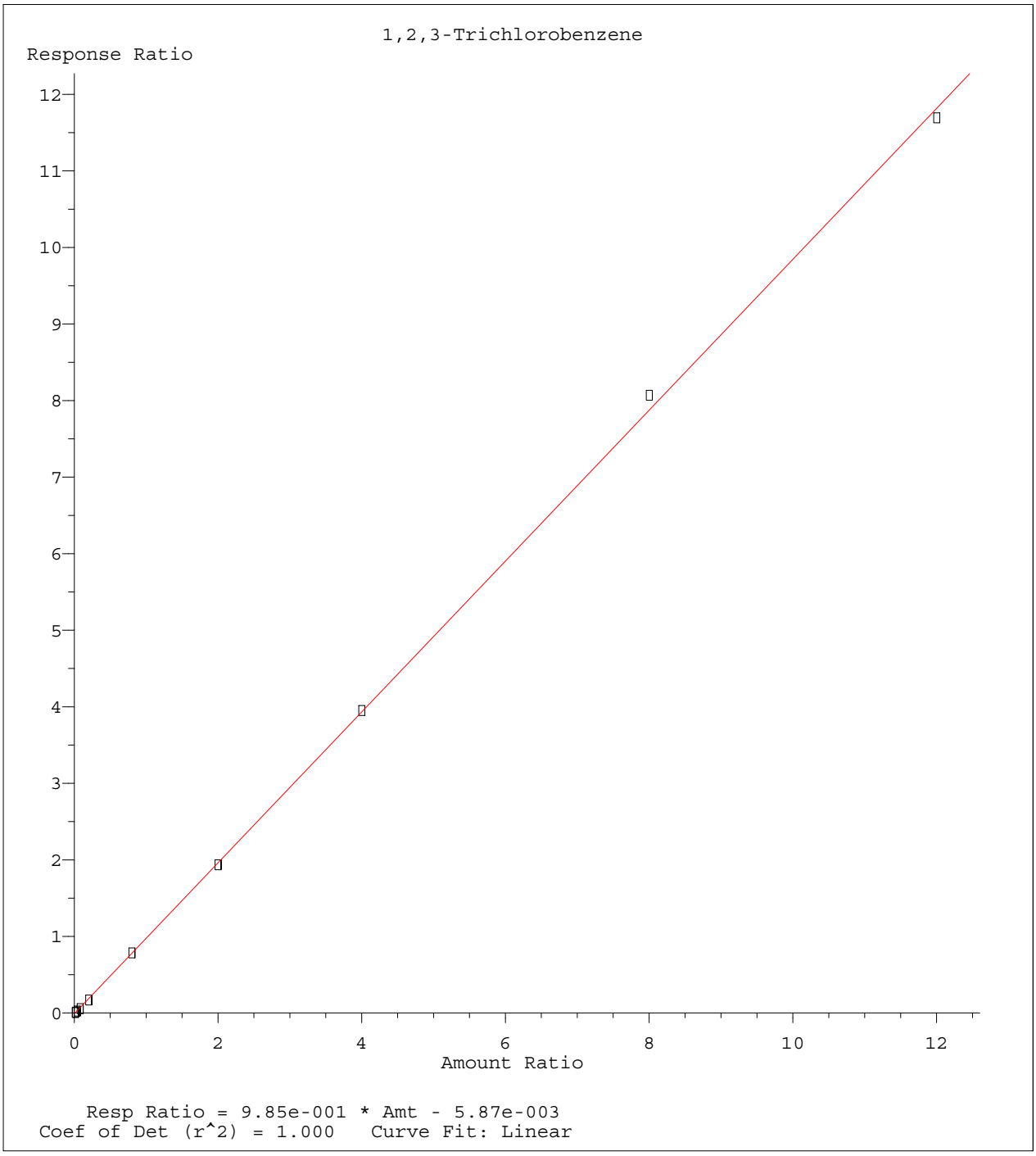
Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Mon Jun 30 10:39:17 2014



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Mon Jun 30 10:39:17 2014



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Mon Jun 30 10:39:17 2014



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Mon Jun 30 10:39:17 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02161.D Vial: 14
Acq On : 27 Jun 2014 21:34 Operator: FJB
Sample : WG482009-12 50ug/L ALT SRC 8260 Inst : hpms11
Misc : 1,1 STD65074 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:43:32 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	1022853	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	772534	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.10	152	409801	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.66	111	302527	23.6832 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 94.72%		
43) 1,2-Dichloroethane-d4	10.27	65	276134	22.1520 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 88.60%		
57) Toluene-d8	12.51	98	1096195	24.2199 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 96.88%		
78) p-Bromofluorobenzene	15.67	95	433622	24.4737 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.88%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	873102	78.8357 ug/L	100
3) Chloromethane	3.73	50	1110279	57.4358 ug/L	97
4) Vinyl Chloride	3.97	62	1023927	58.7824 ug/L	98
5) 1,3-Butadiene	4.01	54	432430	26.3033 ug/L	89
6) Bromomethane	4.88	94	545510	55.6800 ug/L	99
7) Chloroethane	5.04	64	491264	56.1943 ug/L	95
8) Trichlorofluoromethane	5.52	101	1181610	57.4590 ug/L	99
9) Diethyl ether	6.04	59	888556	105.9696 ug/L	92
10) Isoprene	6.08	67	929597	51.7675 ug/L	86
11) Acrolein	6.28	56	76528	71.6280 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.29	101	680817	53.7913 ug/L	96
13) Acetone	6.38	43	106232	51.4316 ug/L	97
14) 1,1-Dichloroethene	6.60	61	948692	50.6351 ug/L	88
15) Tert-Butyl Alcohol	6.71	59	133917	248.3224 ug/L	92
16) Dimethyl Sulfide	6.86	62	706958	53.9605 ug/L	88
17) Iodomethane	7.10	142	479248	30.4995 ug/L	98
18) Methyl acetate	7.10	43	322629	49.4022 ug/L	93
19) Methylene Chloride	7.35	84	679308	48.9975 ug/L	78
20) Carbon Disulfide	7.40	76	1854765	47.2641 ug/L	100
21) Acrylonitrile	7.53	53	143232	50.7366 ug/L	98
22) Methyl Tert Butyl Ether	7.56	73	1497186	52.6950 ug/L	93
23) trans-1,2-Dichloroethene	7.79	96	715342	52.2364 ug/L	83
24) n-Hexane	7.86	57	741386	46.7036 ug/L	93
25) Diisopropyl ether	8.19	45	3988349	107.6569 ug/L	96
26) Vinyl Acetate	8.35	43	907342	90.2223 ug/L	96
27) 1,1-Dichloroethane	8.39	63	1145822	51.0542 ug/L	99
28) Ethyl-Tert-Butyl ether	8.74	59	3682032	107.8088 ug/L	95
29) 2-Butanone	8.91	43	152956	51.6439 ug/L	91
30) Propionitrile	9.02	54	103570	107.2058 ug/L	97
31) 2,2-Dichloropropane	9.13	77	977350	48.5539 ug/L	99
32) cis-1,2-Dichloroethene	9.19	96	771215	51.8843 ug/L	81
33) Chloroform	9.39	83	1188374	51.6642 ug/L	100
34) 1-Bromopropane	9.52	122	156622	62.7852 ug/L	97
35) Bromochloromethane	9.62	130	448610	52.3607 ug/L	81
36) Tetrahydrofuran	9.64	42	207550	107.9085 ug/L	87
38) 1,1,1-Trichloroethane	9.89	97	1113818	52.2348 ug/L	96
39) Cyclohexane	9.93	56	1018575	50.9994 ug/L	85
40) 1,1-Dichloropropene	10.08	75	933030	52.3025 ug/L	98
41) Carbon Tetrachloride	10.22	117	1024482	53.4682 ug/L	99
42) Tert-Amyl-Methyl ether	10.17	73	3229709	109.1176 ug/L	97

(#) = qualifier out of range (m) = manual integration
11M02161.D 8260WTR.M Mon Jun 30 10:45:23 2014 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02161.D Vial: 14
Acq On : 27 Jun 2014 21:34 Operator: FJB
Sample : WG482009-12 50ug/L ALT SRC 8260 Inst : hpms11
Misc : 1,1 STD65074 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:43:32 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

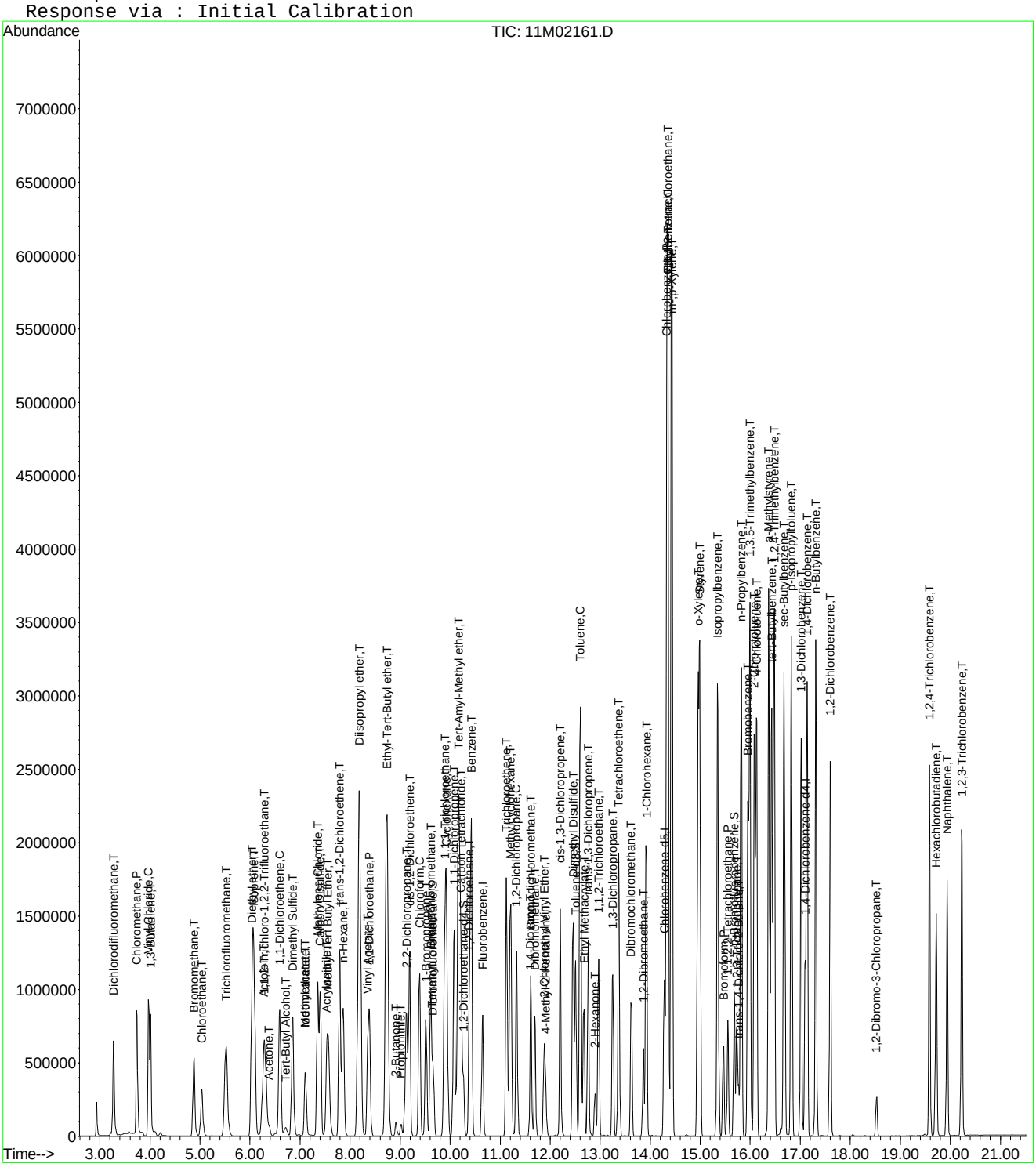
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	1,2-Dichloroethane	10.38	62	794122	49.1195 ug/L	98
45)	Benzene	10.42	78	2612942	52.6456 ug/L	99
46)	Trichloroethene	11.13	130	789924	51.5084 ug/L	95
47)	Methylcyclohexane	11.21	83	1061762	52.4700 ug/L	90
48)	1,2-Dichloropropane	11.32	63	635668	51.4056 ug/L	98
49)	1,4-Dioxane	11.60	88	18536	246.5642 ug/L	84
50)	Bromodichloromethane	11.61	83	869423	50.5468 ug/L	99
51)	Dibromomethane	11.69	93	351176	49.8195 ug/L	97
52)	2-Chloroethyl Vinyl Ether	11.88	63	295975	52.5405 ug/L	94
53)	4-Methyl-2-Pentanone	11.91	58	142808	54.8497 ug/L	95
54)	cis-1,3-Dichloropropene	12.20	75	1062590	54.9881 ug/L	100
55)	Dimethyl Disulfide	12.46	79	560204	51.6145 ug/L	100
58)	Toluene	12.60	91	2803199	53.8166 ug/L	100
59)	Ethyl Methacrylate	12.68	69	626408	58.3254 ug/L	87
60)	trans-1,3-Dichloropropene	12.76	75	847242	50.5191 ug/L	96
61)	1,1,2-Trichloroethane	12.97	97	484369	49.0968 ug/L	99
62)	2-Hexanone	12.89	43	232001	57.0045 ug/L	99
63)	1,3-Dichloropropane	13.26	76	828110	48.8139 ug/L	91
64)	Tetrachloroethene	13.37	164	586597	49.9300 ug/L	97
65)	Dibromochloromethane	13.62	129	647781	52.0547 ug/L	100
66)	1,2-Dibromoethane	13.87	107	481613	49.2803 ug/L	98
67)	1-Chlorohexane	13.93	91	948437	55.7877 ug/L	86
68)	Chlorobenzene	14.33	112	1840062	49.1719 ug/L	99
69)	1,1,1,2-Tetrachloroethane	14.35	131	719320	51.4206 ug/L	97
70)	Ethylbenzene	14.35	106	1092369	51.9072 ug/L	94
71)	m-,p-Xylene	14.43	106	2510322	106.2087 ug/L	93
72)	o-Xylene	14.96	106	1183932	48.9611 ug/L	96
73)	Styrene	14.99	104	2103705	58.0808 ug/L	96
74)	Bromoform	15.47	173	377255	52.2737 ug/L	97
75)	Isopropylbenzene	15.34	105	2913464	52.5276 ug/L	97
77)	1,1,2,2-Tetrachloroethane	15.55	83	520041	47.2170 ug/L	100
79)	1,2,3-Trichloropropane	15.74	110	162060	48.4720 ug/L	81
80)	trans-1,4-Dichloro-2-Buten	15.77	53	82824	27.4000 ug/L #	13
81)	n-Propylbenzene	15.82	91	3319990	48.0645 ug/L	98
82)	Bromobenzene	15.95	156	801454	48.6003 ug/L	95
83)	1,3,5-Trimethylbenzene	16.00	105	2742838	56.3611 ug/L	96
84)	2-Chlorotoluene	16.08	91	2065839	47.3738 ug/L	82
85)	4-Chlorotoluene	16.13	91	2154891m	49.0458 ug/L	
86)	a-Methylstyrene	16.37	118	1533251	56.7220 ug/L	100
87)	tert-Butylbenzene	16.43	134	526714	47.9239 ug/L	86
88)	1,2,4-Trimethylbenzene	16.48	105	2798848	57.3168 ug/L	97
89)	sec-Butylbenzene	16.68	105	3048098	51.9657 ug/L	99
90)	p-Isopropyltoluene	16.82	119	2657635	53.7738 ug/L	100
91)	1,3-Dichlorobenzene	17.02	146	1452965	48.6315 ug/L	98
92)	1,4-Dichlorobenzene	17.13	146	1559125	52.1037 ug/L	98
93)	n-Butylbenzene	17.31	91	2494328	60.9960 ug/L	99
94)	1,2-Dichlorobenzene	17.60	146	1339399	48.8309 ug/L	97
95)	1,2-Dibromo-3-Chloropropan	18.52	75	86249	53.8567 ug/L	88
96)	1,2,4-Trichlorobenzene	19.58	180	978527	53.6830 ug/L	96
97)	Hexachlorobutadiene	19.72	225	394822	53.7642 ug/L	98
98)	Naphthalene	19.93	128	1731523	58.0371 ug/L	99
99)	1,2,3-Trichlorobenzene	20.23	180	874822	54.3068 ug/L	96

(#) = qualifier out of range (m) = manual integration
11M02161.D 8260WTR.M Mon Jun 30 10:45:23 2014 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\062714\11M02161.D Vial: 14
Acq On : 27 Jun 2014 21:34 Operator: FJB
Sample : WG482009-12 50ug/L ALT SRC 8260 Inst : hpms11
Misc : 1,1 STD65074 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:45 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration



11M02161.D 8260WTR.M Mon Jun 30 10:45:24 2014 Page 3

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\062714\11M02161.D Vial: 14
Acq On : 27 Jun 2014 21:34 Operator: FJB
Sample : WG482009-12 50ug/L ALT SRC 8260 Inst : hpms11
Misc : 1,1 STD65074 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	50.0000	78.8357	-57.7#	150	0.00
3	P	Chloromethane	50.0000	57.4358	-14.9	121	-0.01
4	C	Vinyl Chloride	50.0000	58.7824	-17.6	111	-0.01
5	T	1,3-Butadiene	50.0000	26.3033	47.4#	62	-0.02
6	T	Bromomethane	50.0000	55.6800	-11.4	133	-0.01
7	T	Chloroethane	50.0000	56.1943	-12.4	111	-0.01
8	T	Trichlorofluoromethane	50.0000	57.4590	-14.9	114	0.00
9	T	Diethyl ether	100.0000	105.9696	-6.0	108	0.00
10	T	Isoprene	50.0000	51.7675	-3.5	102	0.00
11	T	Acrolein	50.0000	71.6280	-43.3#	143	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	53.7913	-7.6	107	0.00
13	T	Acetone	50.0000	51.4316	-2.9	116	0.00
14	C	1,1-Dichloroethene	50.0000	50.6351	-1.3	99	0.00
15	T	Tert-Butyl Alcohol	200.0000	248.3224	-24.2	129	0.01
16	T	Dimethyl Sulfide	50.0000	53.9605	-7.9	108	0.00
17	T	Iodomethane	50.0000	30.4995	39.0#	59	0.00
18	T	Methyl acetate	50.0000	49.4022	1.2	102	0.00
19	T	Methylene Chloride	50.0000	48.9975	2.0	103	0.00
20	T	Carbon Disulfide	50.0000	47.2641	5.5	90	0.00
21	T	Acrylonitrile	50.0000	50.7366	-1.5	100	0.00
22	T	Methyl Tert Butyl Ether	50.0000	52.6950	-5.4	107	0.00
23	T	trans-1,2-Dichloroethene	50.0000	52.2364	-4.5	106	-0.01
24	T	n-Hexane	50.0000	46.7036	6.6	91	0.00
25	T	Diisopropyl ether	100.0000	107.6569	-7.7	107	0.01
26	T	Vinyl Acetate	50.0000	90.2223	-80.4#	177	0.00
27	P	1,1-Dichloroethane	50.0000	51.0542	-2.1	100	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	107.8088	-7.8	108	0.01
29	T	2-Butanone	50.0000	51.6439	-3.3	107	0.00
30	T	Propionitrile	100.0000	107.2058	-7.2	107	0.00
31	T	2,2-Dichloropropane	50.0000	48.5539	2.9	97	0.00
32	T	cis-1,2-Dichloroethene	50.0000	51.8843	-3.8	104	0.00
33	C	Chloroform	50.0000	51.6642	-3.3	103	0.00
34	T	1-Bromopropane	50.0000	62.7852	-25.6#	118	0.00
35	T	Bromochloromethane	50.0000	52.3607	-4.7	103	0.00
36	T	Tetrahydrofuran	100.0000	107.9085	-7.9	109	0.00
37	S	Dibromofluoromethane	25.0000	23.6832	5.3	91	0.00
38	T	1,1,1-Trichloroethane	50.0000	52.2348	-4.5	104	0.00
39	T	Cyclohexane	50.0000	50.9994	-2.0	98	0.00
40	T	1,1-Dichloropropene	50.0000	52.3025	-4.6	102	0.00
41	T	Carbon Tetrachloride	50.0000	53.4682	-6.9	103	0.00
42	T	Tert-Amyl-Methyl ether	100.0000	109.1176	-9.1	110	0.01
43	S	1,2-Dichloroethane-d4	25.0000	22.1520	11.4	87	0.00
44	T	1,2-Dichloroethane	50.0000	49.1195	1.8	101	0.00
45	T	Benzene	50.0000	52.6456	-5.3	103	0.00
46	T	Trichloroethene	50.0000	51.5084	-3.0	105	0.00
47	T	Methylcyclohexane	50.0000	52.4700	-4.9	100	0.00
48	C	1,2-Dichloropropane	50.0000	51.4056	-2.8	101	-0.01
49	T	1,4-Dioxane	200.0000	246.5642	-23.3	124	0.00
50	T	Bromodichloromethane	50.0000	50.5468	-1.1	100	0.00
51	T	Dibromomethane	50.0000	49.8195	0.4	100	0.00
52	T	2-Chloroethyl Vinyl Ether	50.0000	52.5405	-5.1	102	0.00
53	T	4-Methyl-2-Pentanone	50.0000	54.8497	-9.7	107	0.00
54	T	cis-1,3-Dichloropropene	50.0000	54.9881	-10.0	104	0.00

(#) = Out of Range
11M02161.D 8260WTR.M Mon Jun 30 10:45:29 2014 Page 1

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\062714\11M02161.D Vial: 14
Acq On : 27 Jun 2014 21:34 Operator: FJB
Sample : WG482009-12 50ug/L ALT SRC 8260 Inst : hpms11
Misc : 1,1 STD65074 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

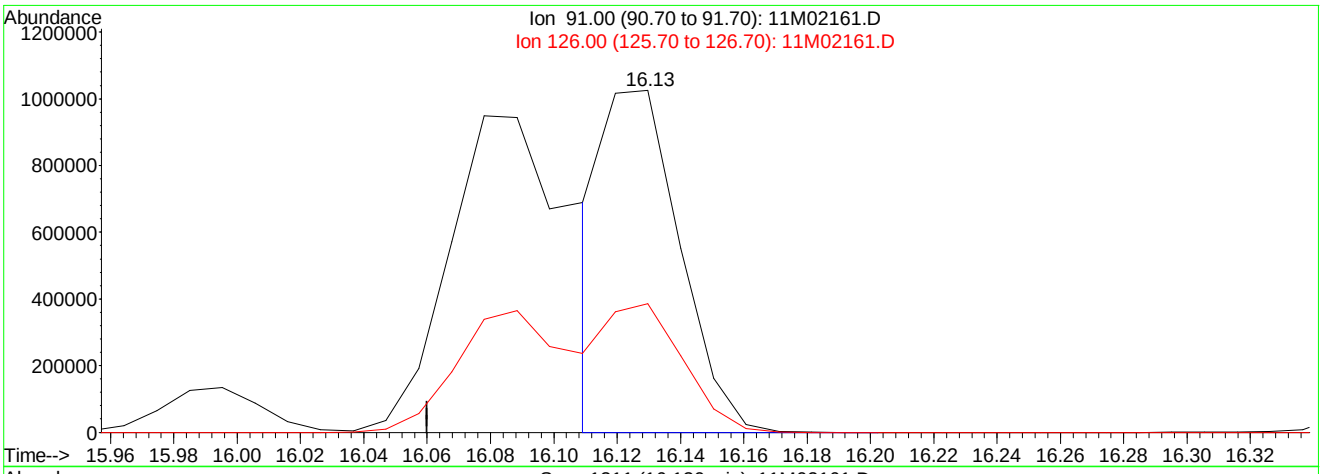
		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	Dimethyl Disulfide	50.0000	51.6145	-3.2	103	0.00
56	I	Chlorobenzene-d5	25.0000	25.0000	0.0	101	0.00
57	S	Toluene-d8	25.0000	24.2199	3.1	94	0.00
58	C	Toluene	50.0000	53.8166	-7.6	102	0.00
59	T	Ethyl Methacrylate	50.0000	58.3254	-16.7	109	0.00
60	T	trans-1,3-Dichloropropene	50.0000	50.5191	-1.0	95	0.00
61	T	1,1,2-Trichloroethane	50.0000	49.0968	1.8	100	0.00
62	T	2-Hexanone	50.0000	57.0045	-14.0	111	0.00
63	T	1,3-Dichloropropane	50.0000	48.8139	2.4	101	0.00
64	T	Tetrachloroethene	50.0000	49.9300	0.1	101	0.00
65	T	Dibromochloromethane	50.0000	52.0547	-4.1	102	0.00
66	T	1,2-Dibromoethane	50.0000	49.2803	1.4	99	0.00
67	T	1-Chlorohexane	50.0000	55.7877	-11.6	105	0.00
68	P	Chlorobenzene	50.0000	49.1719	1.7	96	0.00
69	T	1,1,1,2-Tetrachloroethane	50.0000	51.4205	-2.8	102	0.00
70	C	Ethylbenzene	50.0000	51.9072	-3.8	102	0.01
71	T	m-,p-Xylene	100.0000	106.2087	-6.2	99	0.00
72	T	o-Xylene	50.0000	48.9611	2.1	95	0.00
73	T	Styrene	50.0000	58.0808	-16.2	102	0.00
74	P	Bromoform	50.0000	52.2737	-4.5	100	0.00
75	T	Isopropylbenzene	50.0000	52.5277	-5.1	96	0.00
76	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	103	0.00
77	P	1,1,2,2-Tetrachloroethane	50.0000	47.2170	5.6	99	0.00
78	S	p-Bromofluorobenzene	25.0000	24.4737	2.1	99	0.00
79	T	1,2,3-Trichloropropane	50.0000	48.4720	3.1	100	0.01
80	T	trans-1,4-Dichloro-2-Butene	50.0000	27.4001	45.2#	58	0.00
81	T	n-Propylbenzene	50.0000	48.0645	3.9	94	0.00
82	T	Bromobenzene	50.0000	48.6003	2.8	102	0.00
83	T	1,3,5-Trimethylbenzene	50.0000	56.3611	-12.7	107	0.00
84	T	2-Chlorotoluene	50.0000	47.3738	5.3	98	0.00
85	T	4-Chlorotoluene	50.0000	49.0458	1.9	96	-0.03
86	T	a-Methylstyrene	50.0000	56.7220	-13.4	107	0.00
87	T	tert-Butylbenzene	50.0000	47.9239	4.2	97	0.00
88	T	1,2,4-Trimethylbenzene	50.0000	57.3168	-14.6	106	0.00
89	T	sec-Butylbenzene	50.0000	51.9657	-3.9	98	0.00
90	T	p-Isopropyltoluene	50.0000	53.7738	-7.5	99	0.00
91	T	1,3-Dichlorobenzene	50.0000	48.6315	2.7	99	0.00
92	T	1,4-Dichlorobenzene	50.0000	52.1037	-4.2	106	0.00
93	T	n-Butylbenzene	50.0000	60.9960	-22.0	109	0.00
94	T	1,2-Dichlorobenzene	50.0000	48.8309	2.3	99	0.00
95	T	1,2-Dibromo-3-Chloropropane	50.0000	53.8567	-7.7	111	-0.01
96	T	1,2,4-Trichlorobenzene	50.0000	53.6830	-7.4	113	0.00
97	T	Hexachlorobutadiene	50.0000	53.7642	-7.5	116	0.00
98	T	Naphthalene	50.0000	58.0371	-16.1	111	0.00
99	T	1,2,3-Trichlorobenzene	50.0000	54.3068	-8.6	114	0.00

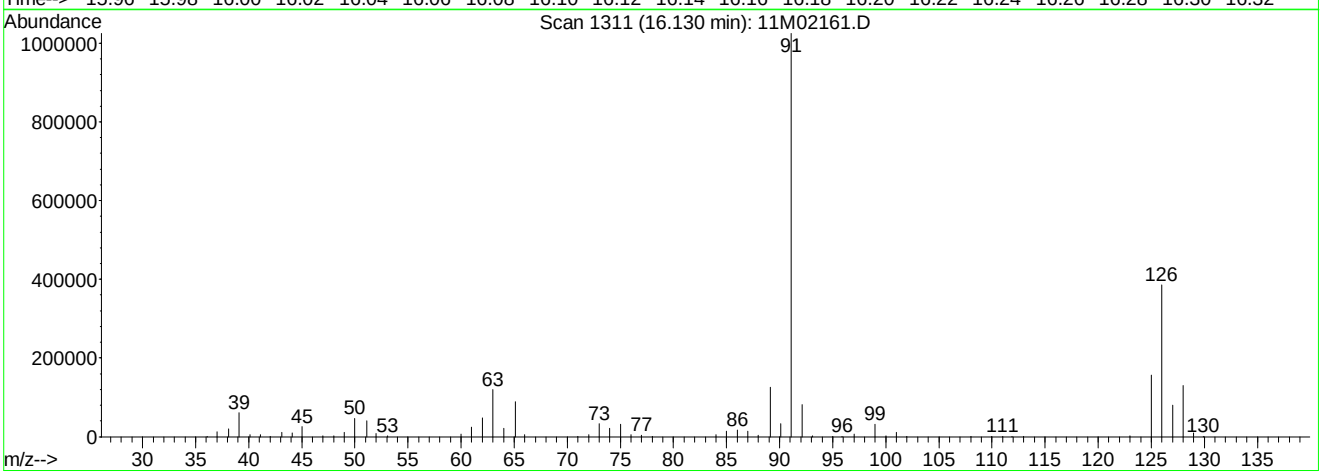
(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M02161.D 8260WTR.M Mon Jun 30 10:45:29 2014 Page 2

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\062714\11M02161.D Vial: 14
Acq On : 27 Jun 2014 21:34 Operator: FJB
Sample : WG482009-12 50ug/L ALT SRC 8260 Inst : hpms11
Misc : 1,1 STD65074 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:43 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Multiple Level Calibration





TIC: 11M02161.D

(85) 4-Chlorotoluene (T)

16.13min 39.32ug/L

response 1727639

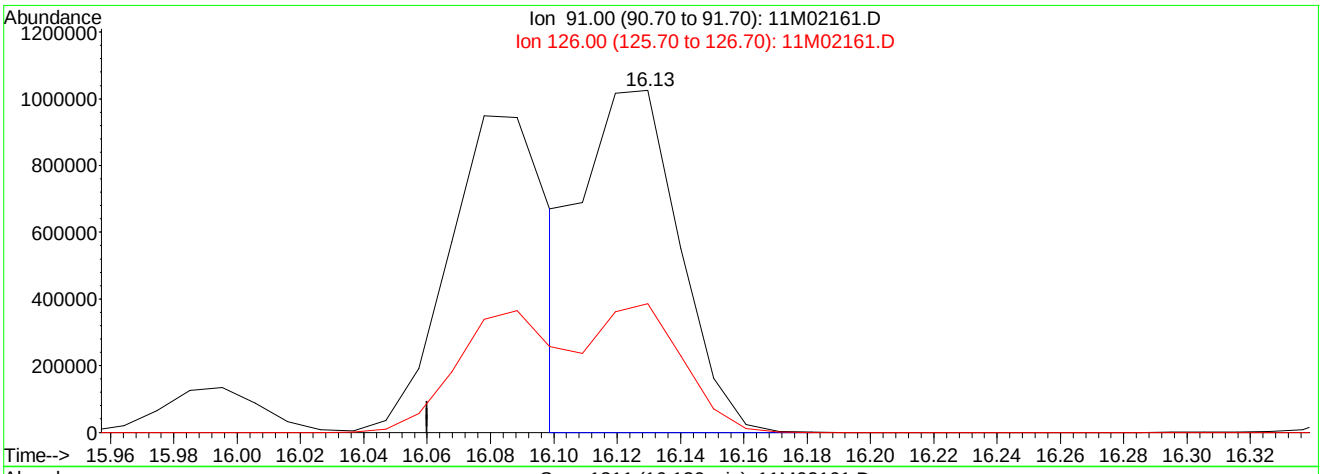
Ion	Exp%	Act%
91.00	100	100
126.00	34.70	37.98
0.00	0.00	0.00
0.00	0.00	0.00

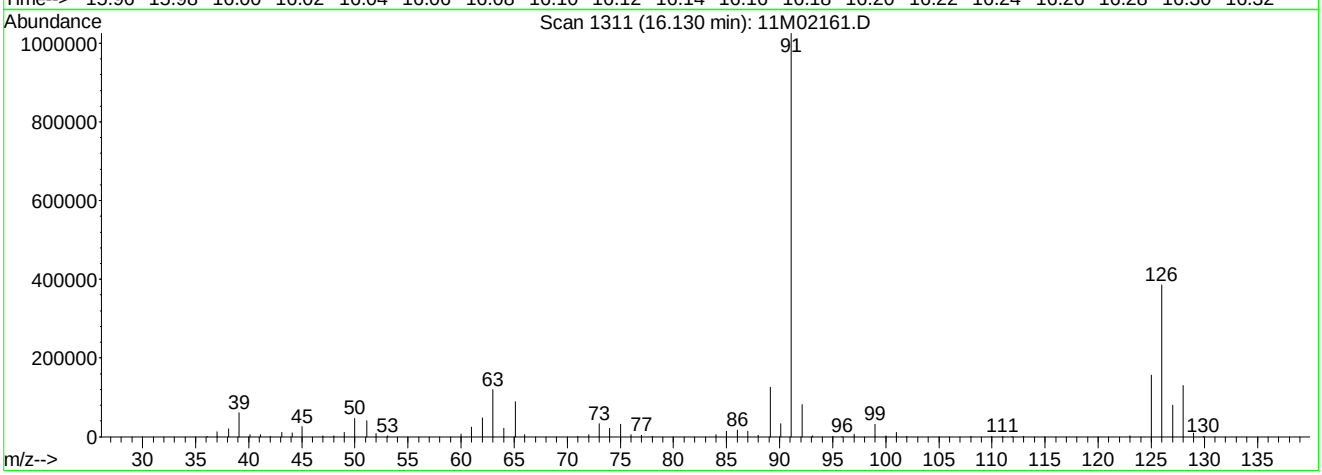
11M02161.D 8260WTR.M Mon Jun 30 10:45:11 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\062714\11M02161.D Vial: 14
Acq On : 27 Jun 2014 21:34 Operator: FJB
Sample : WG482009-12 50ug/L ALT SRC 8260 Inst : hpms11
Misc : 1,1 STD65074 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 10:45 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Multiple Level Calibration





TIC: 11M02161.D

(85) 4-Chlorotoluene (T)

16.13min 49.05ug/L mint

response 2154891

Ion	Exp%	Act%
91.00	100	100
126.00	34.70	30.45
0.00	0.00	0.00
0.00	0.00	0.00

11M02161.D 8260WTR.M Mon Jun 30 10:45:14

Analyst: 06/30/2014 14:36 Supervisor: 06/30/2014 15:40

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000186.D
Acq On : 13 Oct 2013 17:48
Operator : MES
Sample : WG448462-02 5ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 17 17:42:57 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration

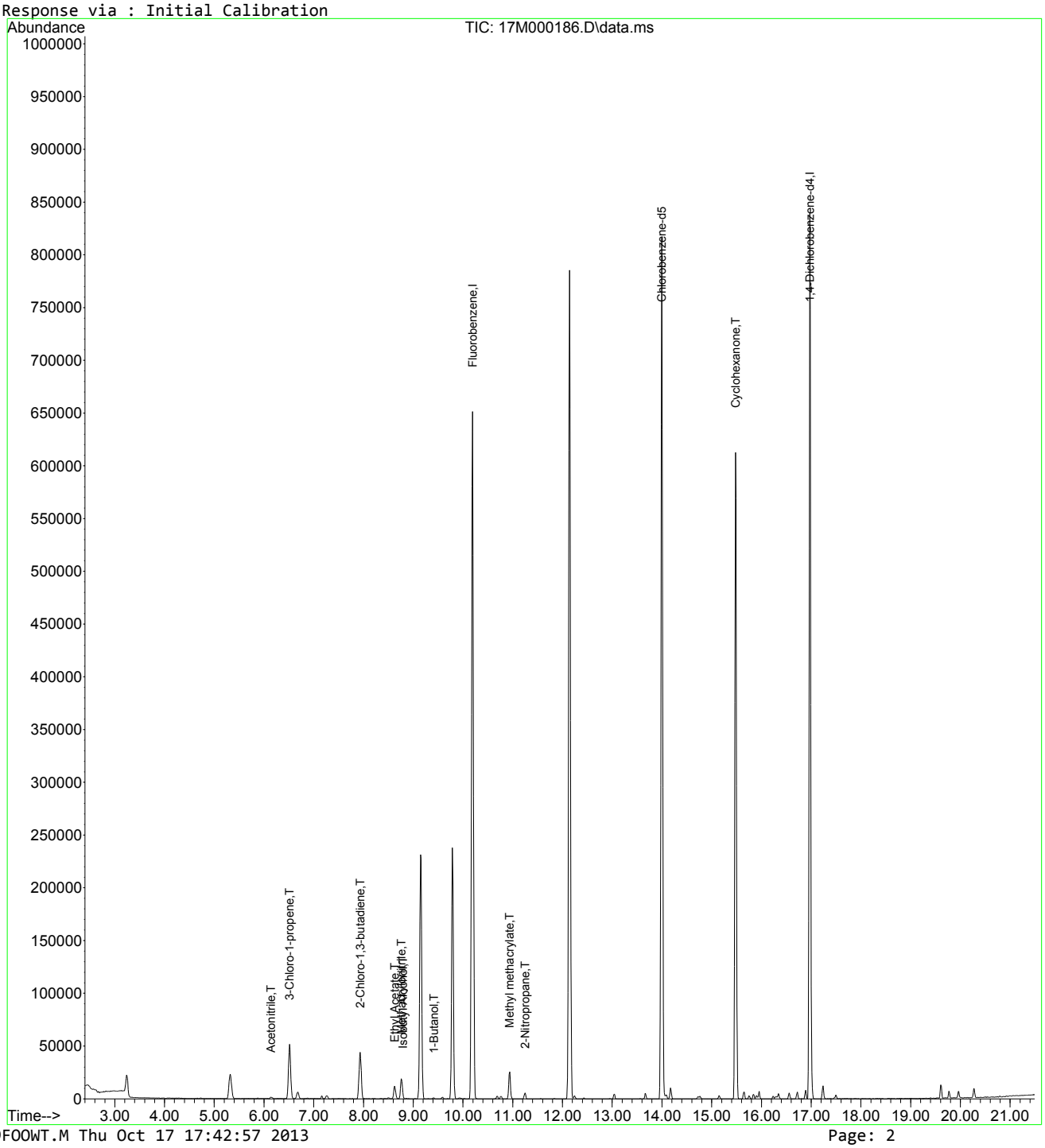
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	10.192	96	834735	25.0000 ug/L	0.00
11) Chlorobenzene-d5	13.996	117	596678	25.0000 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	16.971	152	298748	25.0000 ug/L	0.00
Target Compounds					Qvalue
2) Acetonitrile	6.139	41	2125	3.70 ug/L #	72
3) 3-Chloro-1-propene	6.513	41	56439	4.88 ug/L #	87
4) 2-Chloro-1,3-butadiene	7.933	53	47335	4.42 ug/L	98
5) Methacrylonitrile	8.762	67	9230	4.25 ug/L	98
6) Ethyl Acetate	8.627	43	20657	4.25 ug/L #	87
7) Isobutyl Alcohol	8.793	43	984	6.08 ug/L #	48
8) 1-Butanol	9.415	56	1024	34.64 ug/L #	16
9) Methyl methacrylate	10.939	41	18354	4.00 ug/L	99
10) 2-Nitropropane	11.249	43	5280	3.08 ug/L	90
12) Cyclohexanone	15.479	55	199	17.31 ug/L #	23

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000186.D
Acq On : 13 Oct 2013 17:48
Operator : MES
Sample : WG448462-02 5ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 17 17:42:57 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration



A9FOOWT.M Thu Oct 17 17:42:57 2013 Page: 2

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000186.D
Acq On : 13 Oct 2013 17:48
Operator : MES
Sample : WG448462-02 5ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 17 17:43:35 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.00
2	T	Acetonitrile	5.000	3.703	25.9#	0	0.01
3	T	3-Chloro-1-propene	5.000	4.880	2.4	100	0.00
4	T	2-Chloro-1,3-butadiene	5.000	4.424	11.5	100	0.00
5	T	Methacrylonitrile	5.000	4.254	14.9	100	0.00
6	T	Ethyl Acetate	5.000	4.247	15.1	100	0.01
7	T	Isobutyl Alcohol	5.000	6.076	-21.5	0	0.01
8	T	1-Butanol	-1.000	34.643	0.0	0	-0.30
9	T	Methyl methacrylate	5.000	4.002	20.0	100	0.01
10	T	2-Nitropropane	-1.000	3.076	0.0	0	0.00
11		Chlorobenzene-d5	25.000	25.000	0.0	100	0.00
12	T	Cyclohexanone	-1.000	17.312	0.0	0	0.23
13	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000187.D
Acq On : 13 Oct 2013 18:15
Operator : MES
Sample : WG448462-03 20ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 17 17:43:00 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration

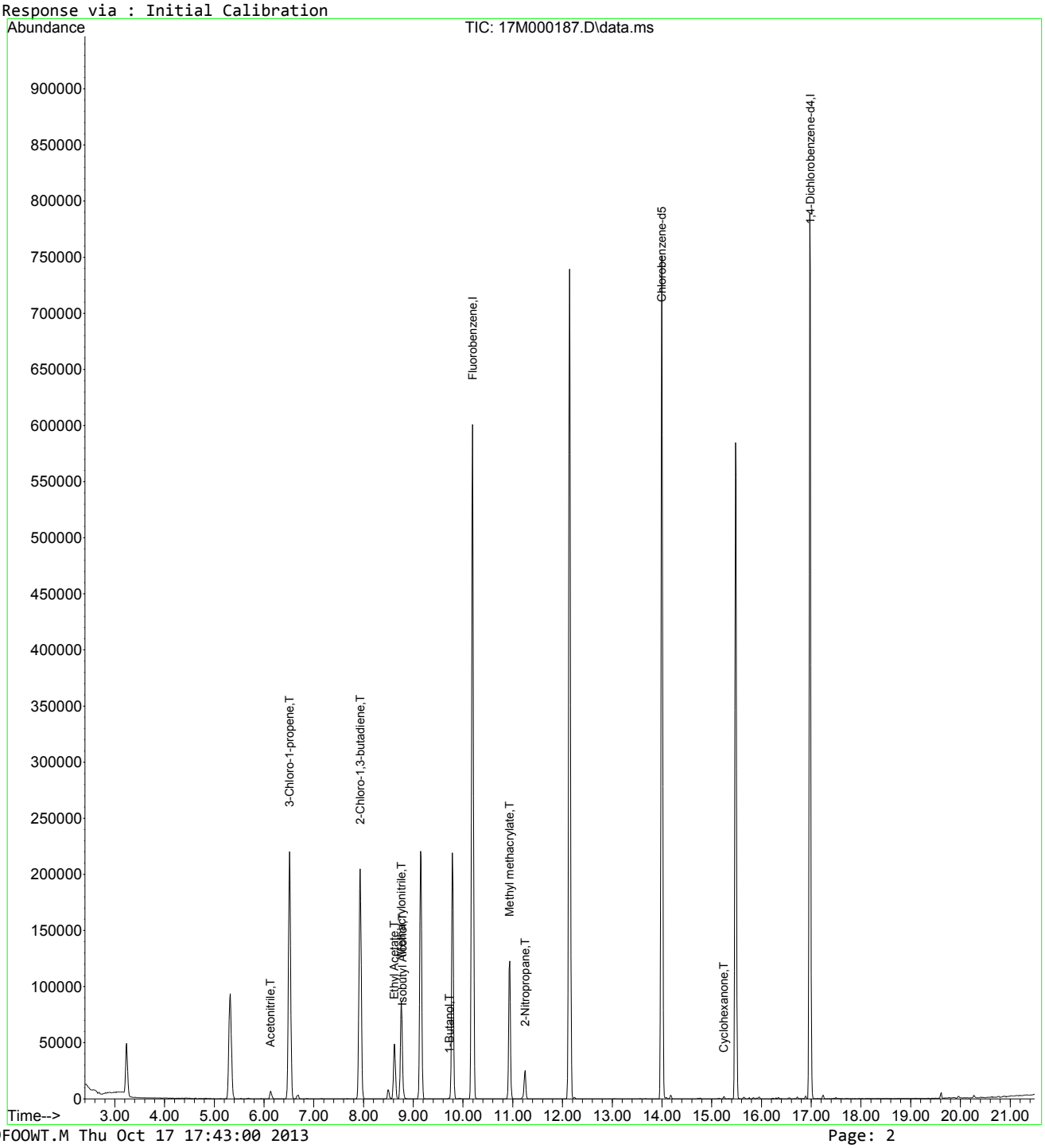
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	10.192	96	769796	25.0000 ug/L	0.00
11) Chlorobenzene-d5	13.996	117	542862	25.0000 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	16.981	152	283988	25.0000 ug/L	0.01
Target Compounds					Qvalue
2) Acetonitrile	6.129	41	9431	17.82 ug/L #	91
3) 3-Chloro-1-propene	6.512	41	236510	22.18 ug/L	99
4) 2-Chloro-1,3-butadiene	7.932	53	212042	21.49 ug/L	99
5) Methacrylonitrile	8.761	67	39753	19.87 ug/L	99
6) Ethyl Acetate	8.616	43	87278	19.46 ug/L	100
7) Isobutyl Alcohol	8.782	43	5450	36.49 ug/L #	97
8) 1-Butanol	9.725	56	885	33.83 ug/L #	48
9) Methyl methacrylate	10.938	41	81246	19.21 ug/L	100
10) 2-Nitropropane	11.249	43	24099	15.23 ug/L	93
12) Cyclohexanone	15.240	55	1683	31.57 ug/L #	89

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000187.D
Acq On : 13 Oct 2013 18:15
Operator : MES
Sample : WG448462-03 20ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 17 17:43:00 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration



A9FOOWT.M Thu Oct 17 17:43:00 2013 Page: 2

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000188.D
Acq On : 13 Oct 2013 18:43
Operator : MES
Sample : WG448462-04 50ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 17 17:43:02 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration

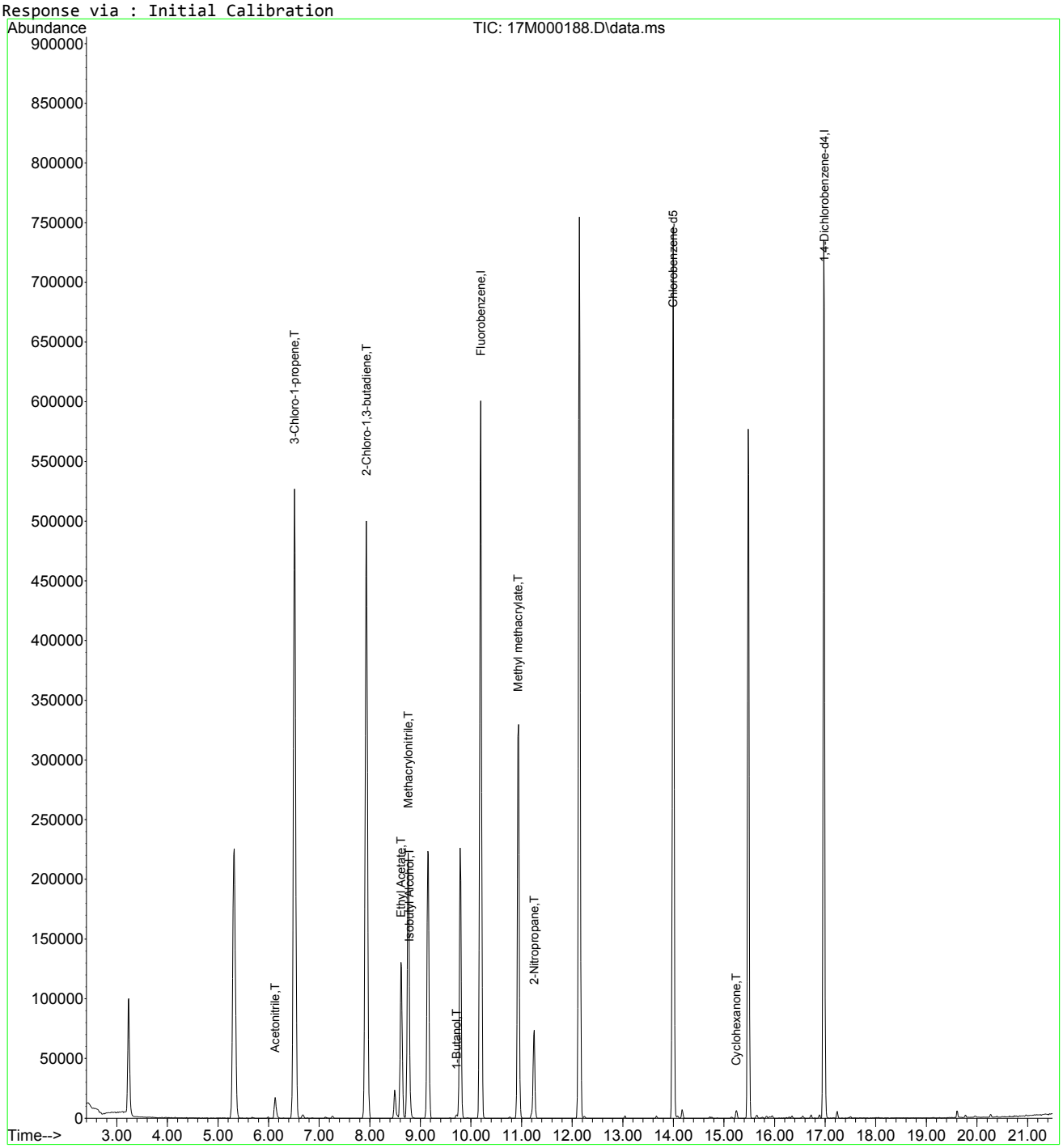
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	10.192	96	764083	25.0000 ug/L	0.00
11) Chlorobenzene-d5	13.996	117	535993	25.0000 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	16.981	152	263764	25.0000 ug/L	0.01
Target Compounds					Qvalue
2) Acetonitrile	6.129	41	25091	47.77 ug/L #	99
3) 3-Chloro-1-propene	6.512	41	571105	53.95 ug/L	100
4) 2-Chloro-1,3-butadiene	7.932	53	517543	52.84 ug/L	100
5) Methacrylonitrile	8.762	67	103271	52.00 ug/L	99
6) Ethyl Acetate	8.616	43	227233	51.04 ug/L	100
7) Isobutyl Alcohol	8.782	43	14258	96.18 ug/L #	96
8) 1-Butanol	9.715	56	2582	56.98 ug/L	98
9) Methyl methacrylate	10.928	41	217667	51.85 ug/L	99
10) 2-Nitropropane	11.249	43	72850	46.37 ug/L	97
12) Cyclohexanone	15.240	55	4463	57.76 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000188.D
Acq On : 13 Oct 2013 18:43
Operator : MES
Sample : WG448462-04 50ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 17 17:43:02 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration



A9FOOWT.M Thu Oct 17 17:43:02 2013 Page: 2

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000189.D
Acq On : 13 Oct 2013 19:11
Operator : MES
Sample : WG448462-05 100ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 17 17:43:04 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration

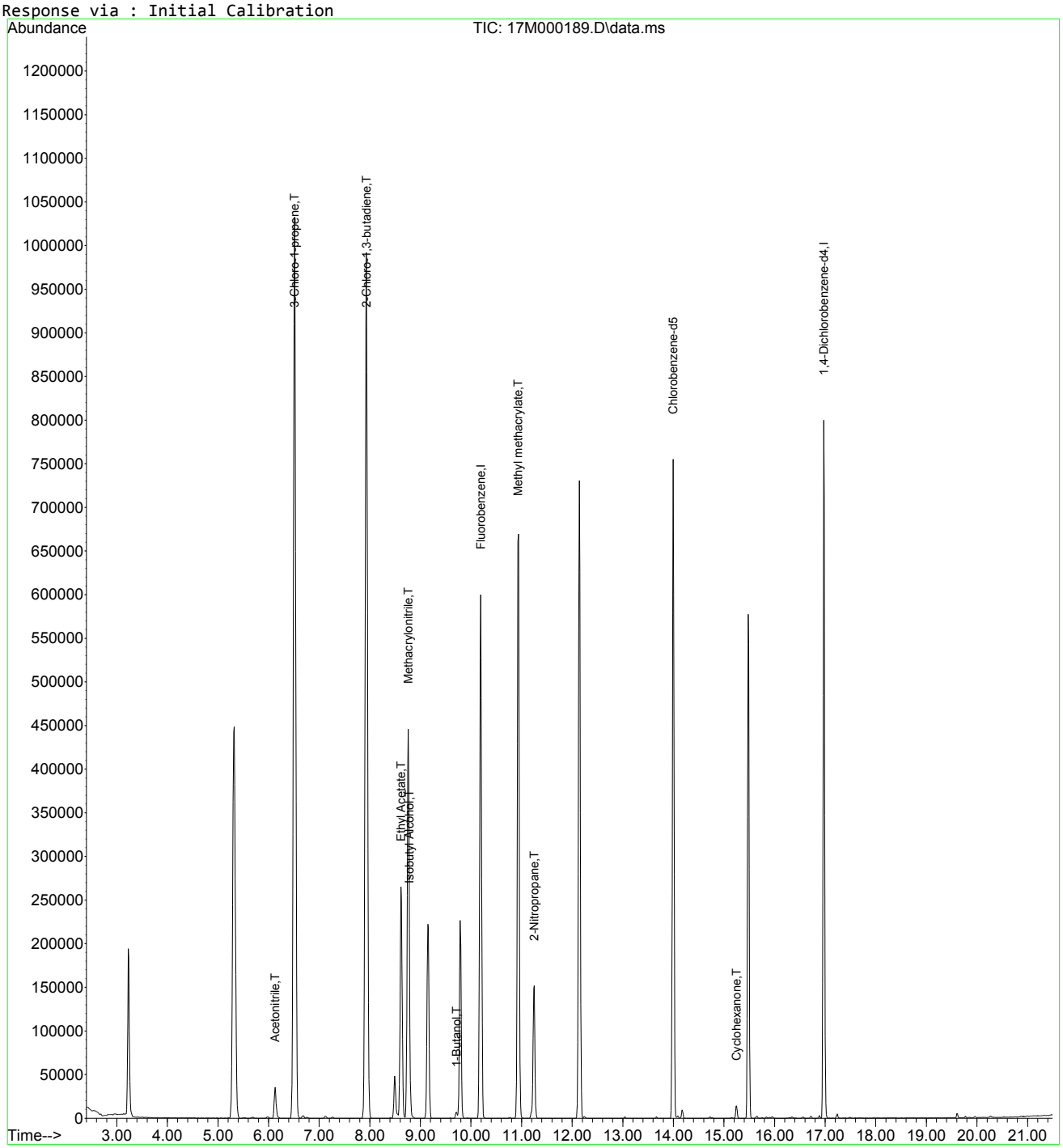
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	10.192	96	762819	25.0000 ug/L	0.00
11) Chlorobenzene-d5	13.996	117	543994	25.0000 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	16.971	152	279020	25.0000 ug/L	0.00
Target Compounds					Qvalue
2) Acetonitrile	6.129	41	49660	94.69 ug/L #	100
3) 3-Chloro-1-propene	6.512	41	1123358	106.29 ug/L	100
4) 2-Chloro-1,3-butadiene	7.932	53	1036798	106.03 ug/L	100
5) Methacrylonitrile	8.762	67	205353	103.57 ug/L	100
6) Ethyl Acetate	8.616	43	457591	102.95 ug/L	100
7) Isobutyl Alcohol	8.782	43	27086	183.01 ug/L	100
8) 1-Butanol	9.715	56	5648	96.66 ug/L	100
9) Methyl methacrylate	10.928	41	448267	106.96 ug/L	100
10) 2-Nitropropane	11.249	43	155172	98.94 ug/L	100
12) Cyclohexanone	15.250	55	9042	97.58 ug/L	100

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000189.D
Acq On : 13 Oct 2013 19:11
Operator : MES
Sample : WG448462-05 100ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 17 17:43:04 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration



A9FOOWT.M Thu Oct 17 17:43:04 2013 Page: 2

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000190.D
Acq On : 13 Oct 2013 19:39
Operator : MES
Sample : WG448462-06 200ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 17 17:43:06 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration

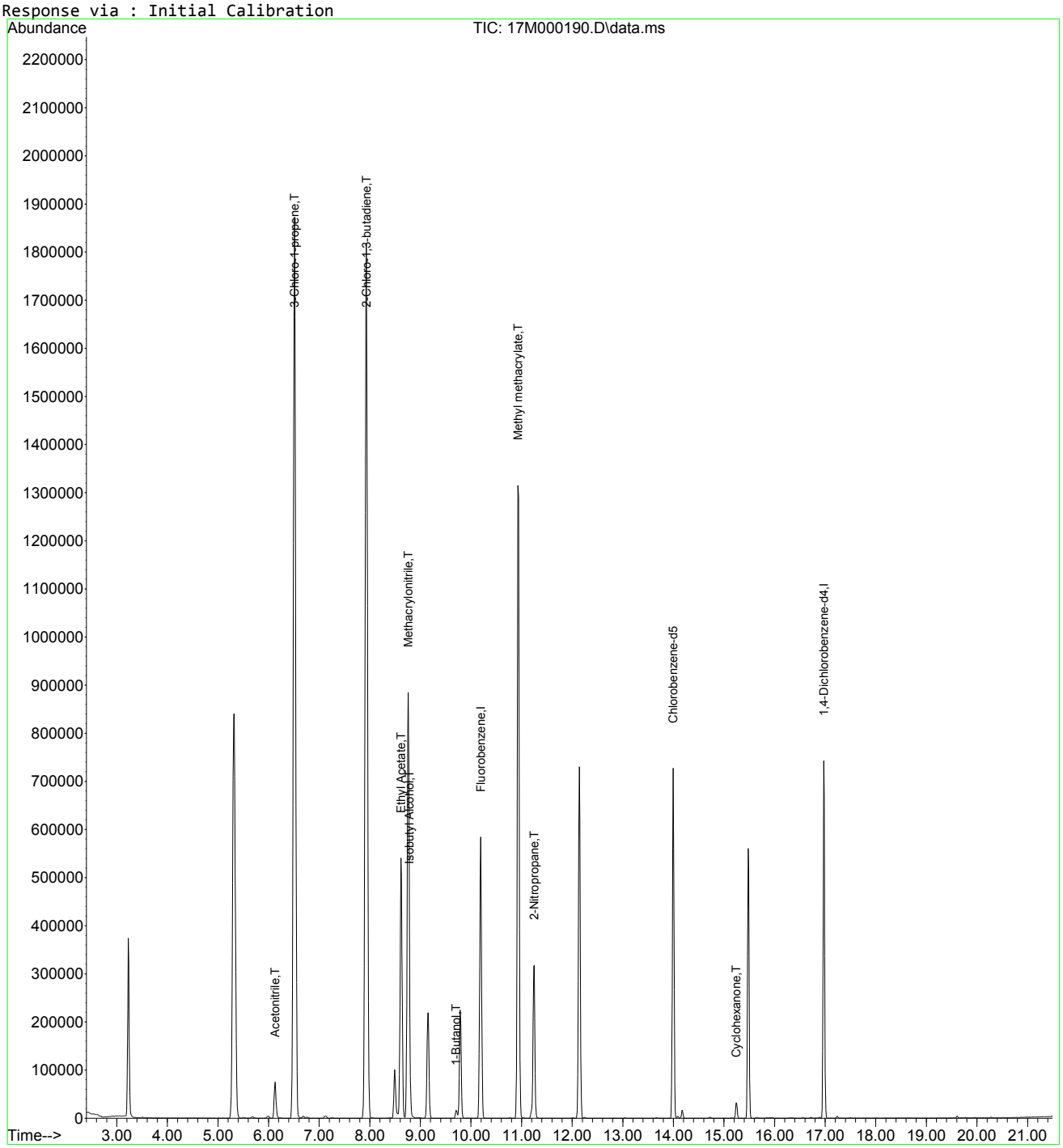
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	10.192	96	735626	25.0000 ug/L	0.00
11) Chlorobenzene-d5	13.996	117	520486	25.0000 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	16.971	152	259787	25.0000 ug/L	0.00
Target Compounds					Qvalue
2) Acetonitrile	6.129	41	104743	207.11 ug/L #	98
3) 3-Chloro-1-propene	6.512	41	2062227	202.34 ug/L	100
4) 2-Chloro-1,3-butadiene	7.932	53	1943243	206.08 ug/L	100
5) Methacrylonitrile	8.762	67	410090	214.48 ug/L	100
6) Ethyl Acetate	8.616	43	919702	214.56 ug/L	100
7) Isobutyl Alcohol	8.782	43	57001	399.37 ug/L	98
8) 1-Butanol	9.705	56	13539	194.38 ug/L	98
9) Methyl methacrylate	10.928	41	887601	219.62 ug/L	100
10) 2-Nitropropane	11.249	43	329942	218.15 ug/L	100
12) Cyclohexanone	15.240	55	19663	191.13 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000190.D
Acq On : 13 Oct 2013 19:39
Operator : MES
Sample : WG448462-06 200ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 17 17:43:06 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration



A9FOOWT.M Thu Oct 17 17:43:06 2013 Page: 2

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000191.D
Acq On : 13 Oct 2013 20:07
Operator : MES
Sample : WG448462-07 300ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 17 17:43:08 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration

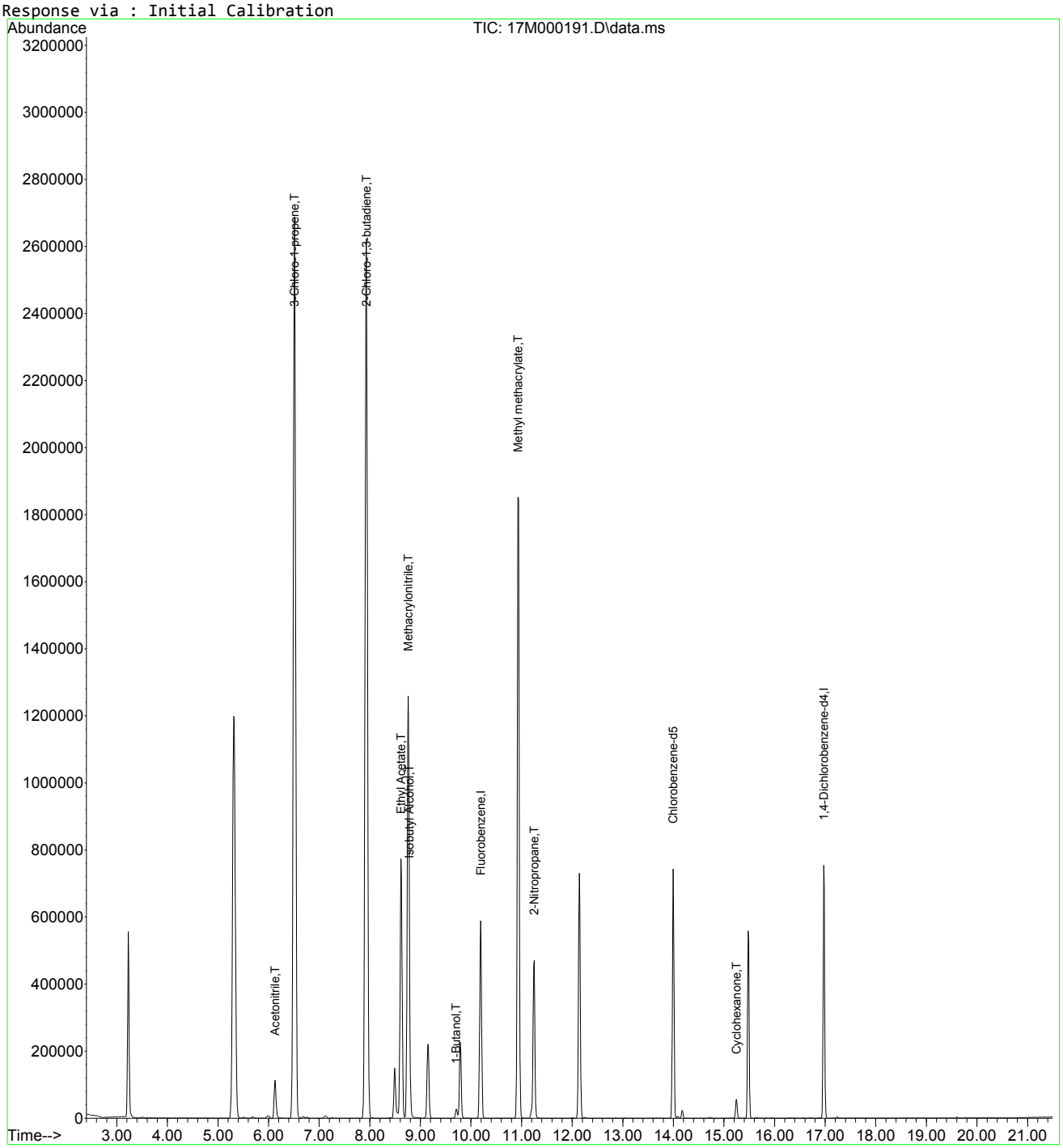
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	10.192	96	745118	25.0000 ug/L	0.00
11) Chlorobenzene-d5	13.996	117	526334	25.0000 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	16.971	152	266080	25.0000 ug/L	0.00
Target Compounds					Qvalue
2) Acetonitrile	6.129	41	157466	307.40 ug/L #	99
3) 3-Chloro-1-propene	6.512	41	2977166	288.39 ug/L	100
4) 2-Chloro-1,3-butadiene	7.932	53	2856242	299.04 ug/L	100
5) Methacrylonitrile	8.762	67	587249	303.22 ug/L	100
6) Ethyl Acetate	8.616	43	1333314	307.09 ug/L	100
7) Isobutyl Alcohol	8.782	43	87294	603.83 ug/L	98
8) 1-Butanol	9.705	56	22963	291.08 ug/L	96
9) Methyl methacrylate	10.928	41	1264197	308.82 ug/L	99
10) 2-Nitropropane	11.249	43	491384	320.75 ug/L	99
12) Cyclohexanone	15.250	55	32886	289.25 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000191.D
Acq On : 13 Oct 2013 20:07
Operator : MES
Sample : WG448462-07 300ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 17 17:43:08 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration



A9FOOWT.M Thu Oct 17 17:43:08 2013 Page: 2

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000192.D
Acq On : 13 Oct 2013 20:35
Operator : MES
Sample : WG448462-08 400ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 17 17:43:10 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration

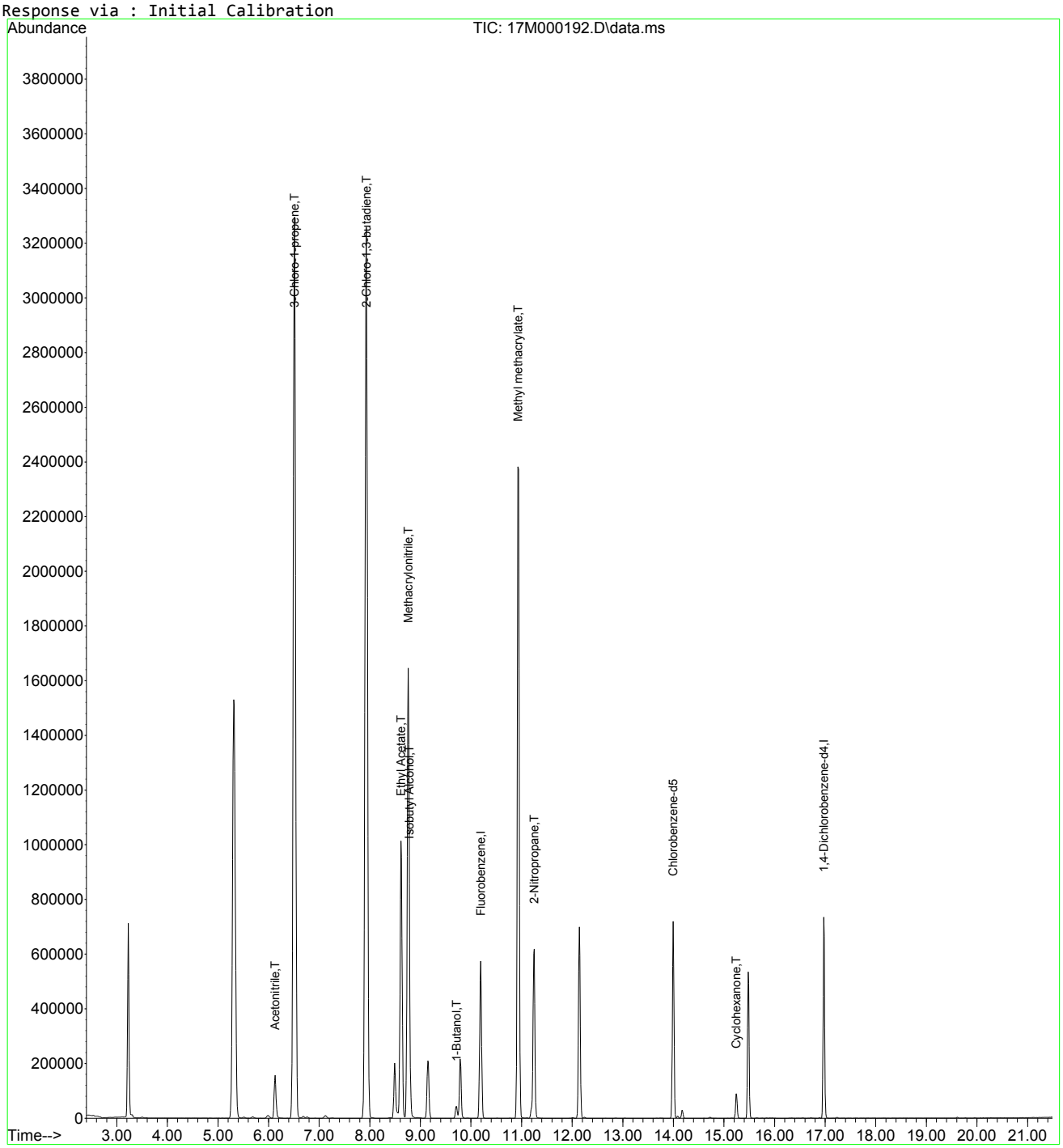
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	10.192	96	728958	25.0000 ug/L	0.00
11) Chlorobenzene-d5	13.996	117	513477	25.0000 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	16.971	152	258316	25.0000 ug/L	0.00
Target Compounds					Qvalue
2) Acetonitrile	6.129	41	215922	430.86 ug/L #	98
3) 3-Chloro-1-propene	6.512	41	3707052	367.06 ug/L	100
4) 2-Chloro-1,3-butadiene	7.932	53	3605435	385.84 ug/L	99
5) Methacrylonitrile	8.762	67	767786	405.22 ug/L	99
6) Ethyl Acetate	8.616	43	1747197	411.34 ug/L	100
7) Isobutyl Alcohol	8.782	43	125947	890.51 ug/L #	95
8) 1-Butanol	9.715	56	36038	418.14 ug/L	96
9) Methyl methacrylate	10.928	41	1636030	408.51 ug/L	99
10) 2-Nitropropane	11.249	43	653312	435.90 ug/L	99
12) Cyclohexanone	15.240	55	51645	423.92 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000192.D
Acq On : 13 Oct 2013 20:35
Operator : MES
Sample : WG448462-08 400ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 17 17:43:10 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration



A9FOOWT.M Thu Oct 17 17:43:10 2013 Page: 2

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000193.D
Acq On : 13 Oct 2013 21:03
Operator : MES
Sample : WG448462-09 500ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 17 17:43:12 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration

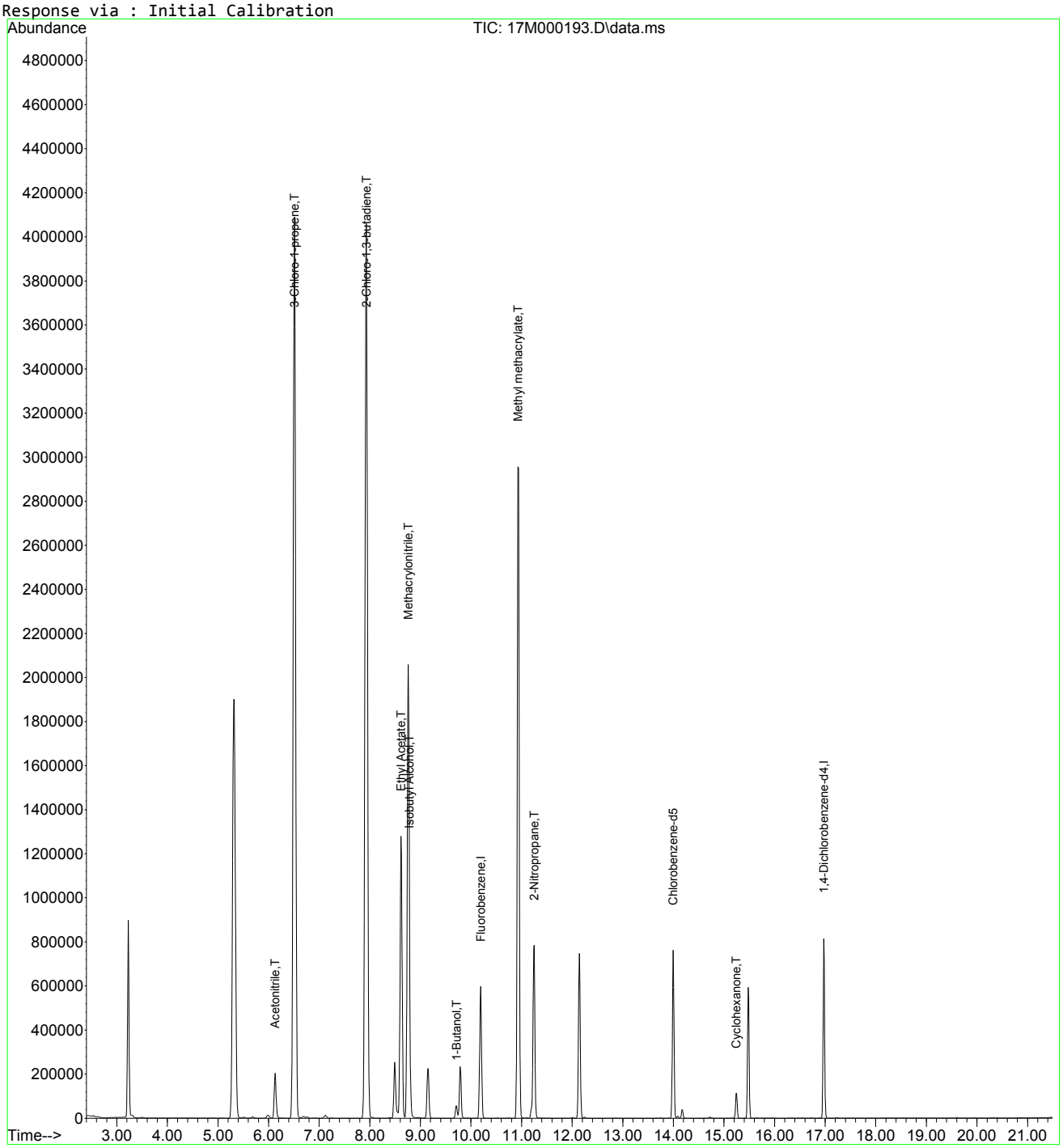
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	10.192	96	759233	25.0000 ug/L	0.00
11) Chlorobenzene-d5	13.996	117	544729	25.0000 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	16.971	152	285472	25.0000 ug/L	0.00
Target Compounds					Qvalue
2) Acetonitrile	6.129	41	279066	534.65 ug/L #	99
3) 3-Chloro-1-propene	6.512	41	4641883	441.29 ug/L	99
4) 2-Chloro-1,3-butadiene	7.932	53	4534980	465.97 ug/L	100
5) Methacrylonitrile	8.761	67	970860	491.97 ug/L	100
6) Ethyl Acetate	8.616	43	2217784	501.31 ug/L	100
7) Isobutyl Alcohol	8.782	43	161004	1092.99 ug/L #	96
8) 1-Butanol	9.715	56	46748	492.64 ug/L	96
9) Methyl methacrylate	10.928	41	2051591	491.84 ug/L	98
10) 2-Nitropropane	11.249	43	836858	536.10 ug/L	99
12) Cyclohexanone	15.240	55	65947	490.06 ug/L	99

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

Quantitation Report (Not Reviewed)

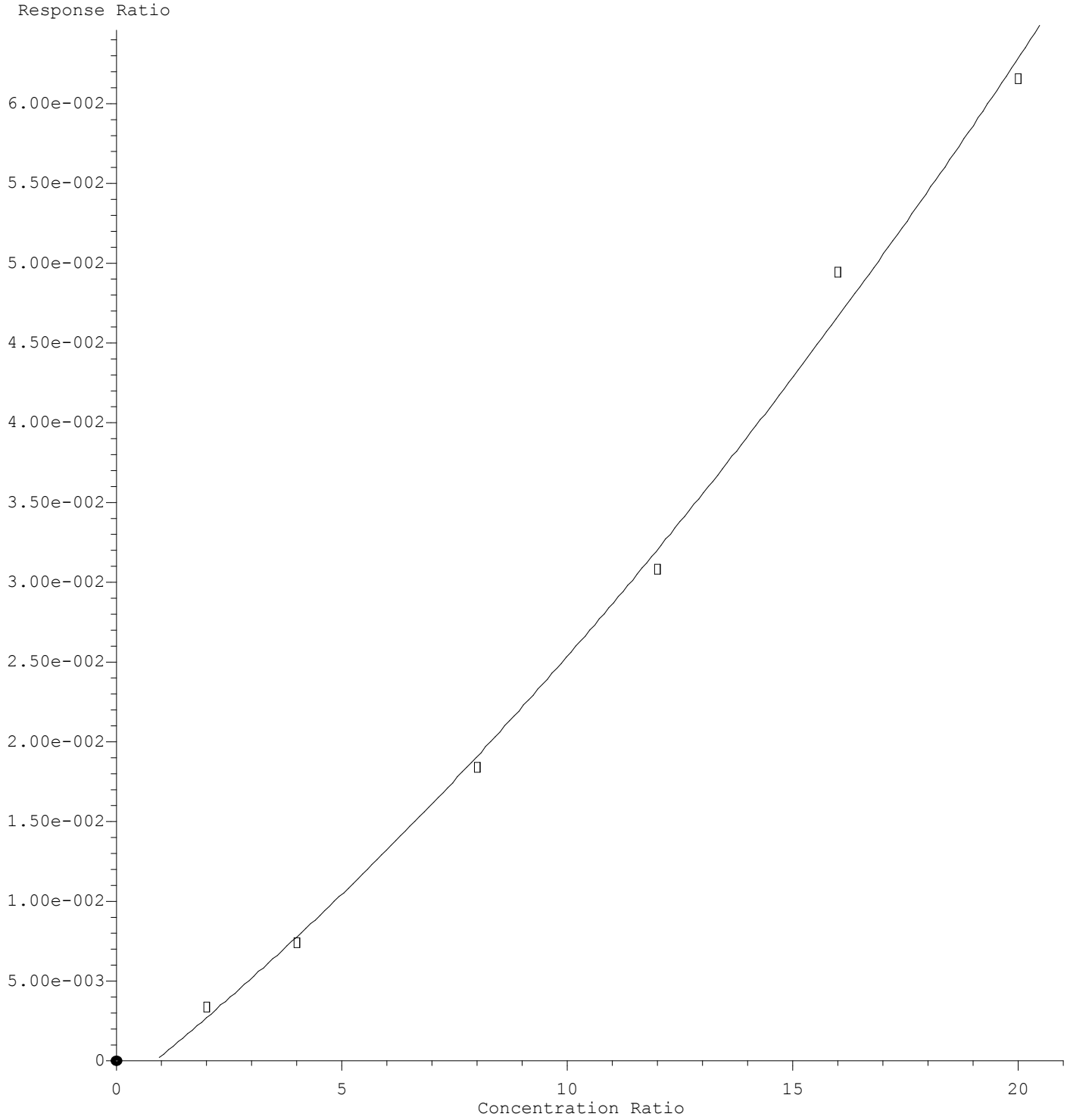
Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000193.D
Acq On : 13 Oct 2013 21:03
Operator : MES
Sample : WG448462-09 500ug/L APPIX STD
Misc : 1,1 STD60752
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 17 17:43:12 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration



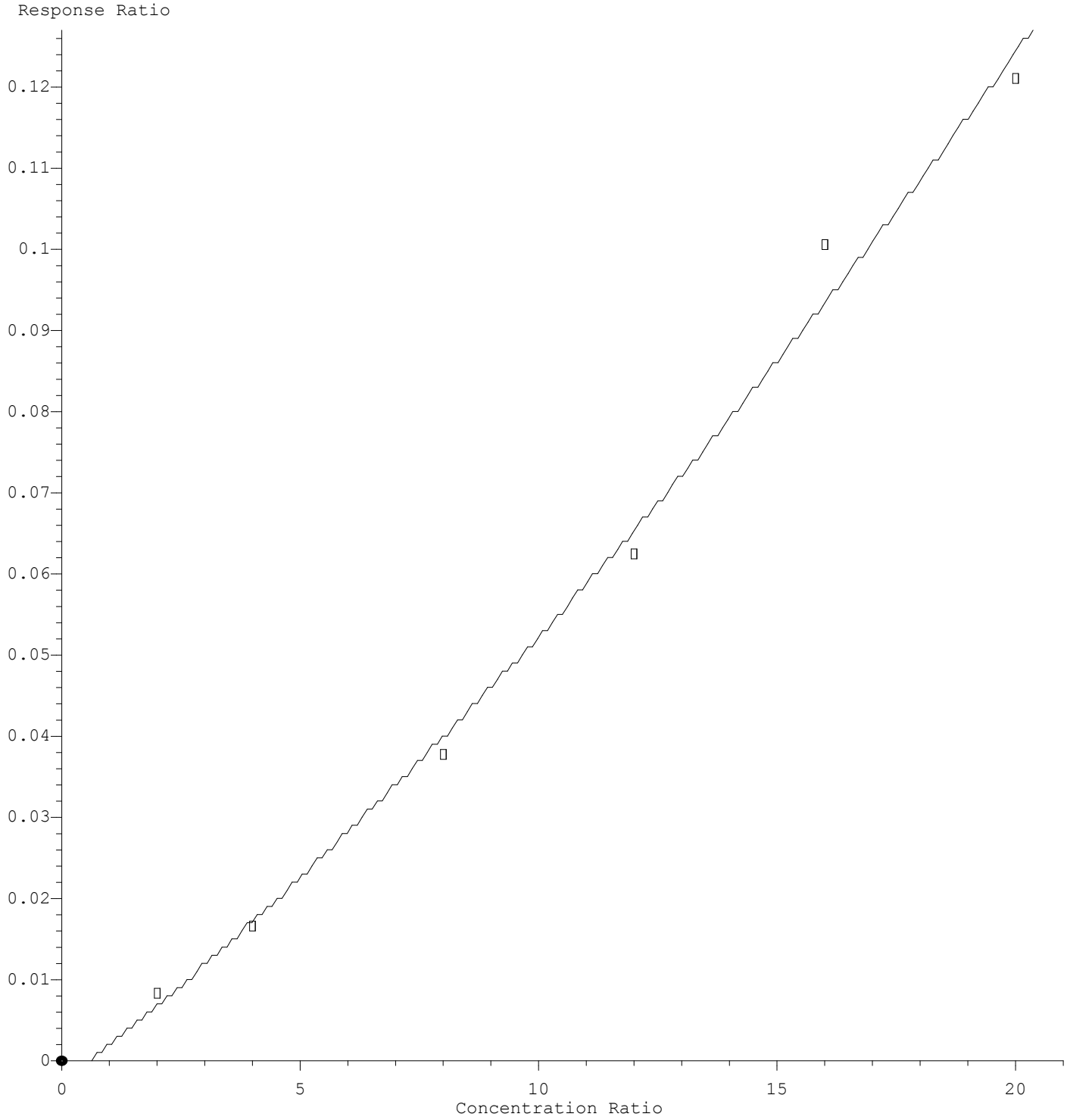
A9FOOWT.M Thu Oct 17 17:43:12 2013 Page: 2

1-Butanol



R = 5.08e-005 A*A + 2.22e-003 A - 1.95e-003
Coef of Det (r^2) = 0.995563 Curve Fit: Quadratic
Method Name: D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Calibration Table Last Updated: Thu Oct 17 17:48:22 2013

Cyclohexanone



R = 8.36e-005 A*A + 4.69e-003 A - 2.95e-003
Coef of Det (r^2) = 0.992665 Curve Fit: Quadratic
Method Name: D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Calibration Table Last Updated: Thu Oct 17 17:48:22 2013

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000195.D
Acq On : 13 Oct 2013 22:00
Operator : MES
Sample : WG448462-10 100ug/L APPIX ALT SRC
Misc : 1,1 STD60749
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 17 17:44:26 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration

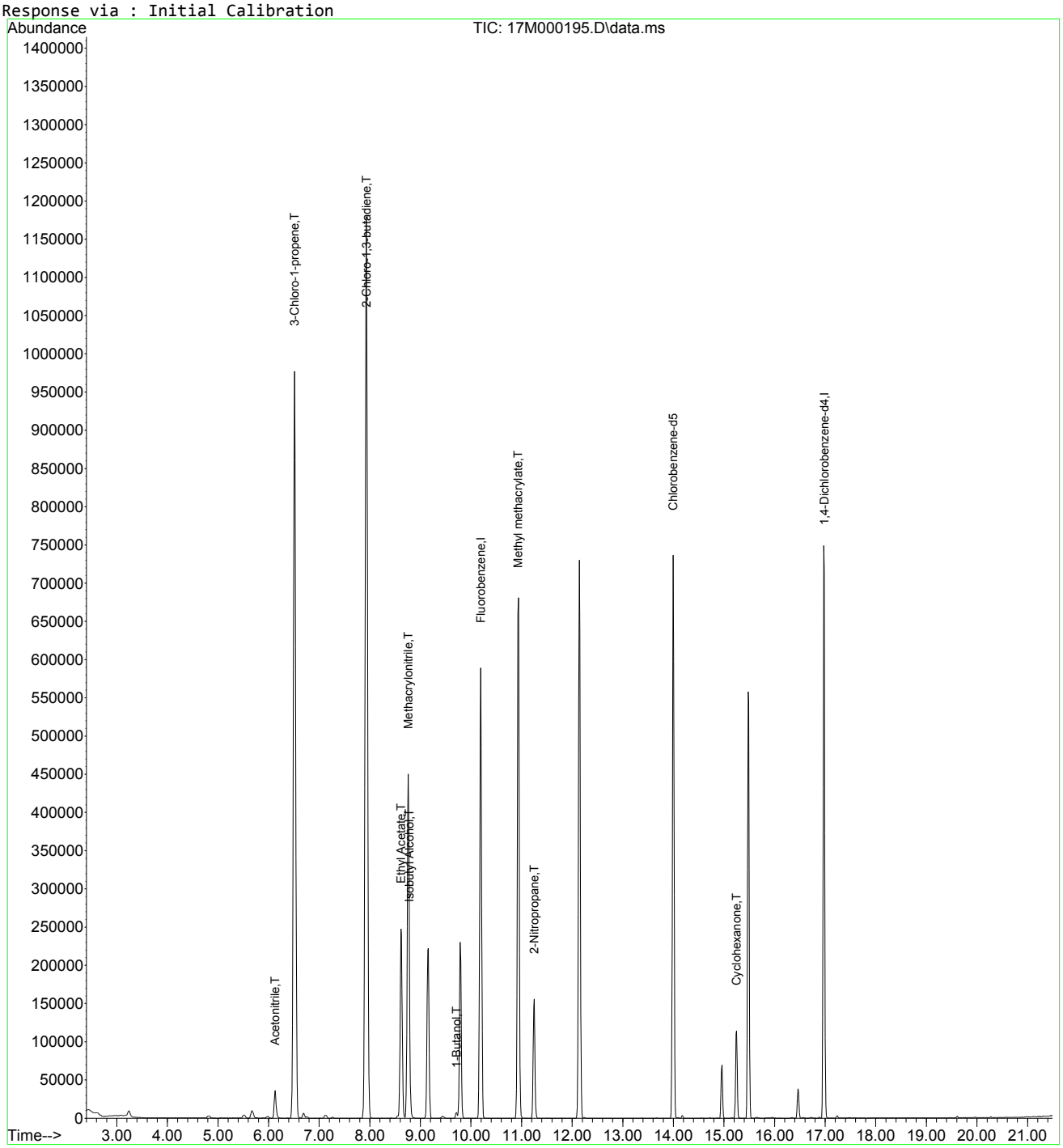
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	10.192	96	737303	25.0000 ug/L	0.00
11) Chlorobenzene-d5	13.996	117	523223	25.0000 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	16.981	152	266615	25.0000 ug/L	0.01
Target Compounds					Qvalue
2) Acetonitrile	6.129	41	50664	99.95 ug/L #	100
3) 3-Chloro-1-propene	6.512	41	1059147	103.69 ug/L	100
4) 2-Chloro-1,3-butadiene	7.932	53	1242553	131.47 ug/L	99
5) Methacrylonitrile	8.761	67	206460	107.73 ug/L	100
6) Ethyl Acetate	8.616	43	431934	100.54 ug/L	100
7) Isobutyl Alcohol	8.782	43	27315	190.94 ug/L	99
8) 1-Butanol	9.715	56	5884	102.15 ug/L	97
9) Methyl methacrylate	10.928	41	453602	111.98 ug/L	99
10) 2-Nitropropane	11.249	43	153443	101.22 ug/L	99
12) Cyclohexanone	15.250	55	65010	500.01 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000195.D
Acq On : 13 Oct 2013 22:00
Operator : MES
Sample : WG448462-10 100ug/L APPIX ALT SRC
Misc : 1,1 STD60749
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 17 17:44:26 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration



A9FOOWT.M Thu Oct 17 17:44:26 2013 Page: 2

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\101313\
Data File : 17M000195.D
Acq On : 13 Oct 2013 22:00
Operator : MES
Sample : WG448462-10 100ug/L APPIX ALT SRC
Misc : 1,1 STD60749
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 17 17:44:26 2013
Quant Method : D:\MassHunter\GCMS\1\methods\A9FOOWT.M
Quant Title : Appendix IX (SOP:OVL MSV01) WATER 10/13/13 HPMS17
QLast Update : Thu Oct 17 17:39:37 2013
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	97	0.00
2	T	Acetonitrile	100.000	99.953	0.0	102	0.00
3	T	3-Chloro-1-propene	100.000	103.685	-3.7	94	0.00
4	T	2-Chloro-1,3-butadiene	100.000	131.470	-31.5#	120	0.00
5	T	Methacrylonitrile	100.000	107.732	-7.7	101	0.00
6	T	Ethyl Acetate	100.000	100.539	-0.5	94	0.00
7	T	Isobutyl Alcohol	200.000	190.945	4.5	101	0.00
8	T	1-Butanol	100.000	102.146	-2.1	104	0.00
9	T	Methyl methacrylate	100.000	111.979	-12.0	101	0.00
10	T	2-Nitropropane	100.000	101.221	-1.2	99	0.00
11		Chlorobenzene-d5	25.000	25.000	0.0	96	0.00
12	T	Cyclohexanone	100.000	500.013	-400.0#	719	0.00
13	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	96	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006667.D
Acq On : 09 Jul 2014 16:53
Operator : ADC
Sample : WG483481-02 0.3ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 16:20:43 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.892	96	312949	25.00000	ug/L	0.0000
43) Chlorobenzene-d5	7.811	117	225425	25.00000	ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.175	152	103094	25.00000	ug/L	0.0000
System Monitoring Compounds						
27) Dibromofluoromethane	3.882	111	391	0.1031	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 0.412%#			
32) 1,2-Dichloroethane-d4	4.548	65	814	0.2221	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 0.888%#			
44) Toluene-d8	6.499	98	2125	0.1600	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 0.640%#			
63) p-Bromofluorobenzene	8.584	95	532	0.1184	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 0.474%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.978	85	1754	0.7021	ug/L #	72
3) Chloromethane	1.085	50	2080	0.7029	ug/L	88
4) Vinyl Chloride	1.125	62	2393	0.6740	ug/L	99
5) 1,3-Butadiene	1.137	54	853	0.2889	ug/L #	65
6) Bromomethane	1.299	94	1360	0.6537	ug/L	98
7) Chloroethane	1.369	64	1534	0.7290	ug/L	88
8) Trichlorofluoromethane	1.450	101	3329	0.6662	ug/L	96
9) Diethyl ether	1.632	59	623	0.2604	ug/L	91
10) 1,1-Dichloroethene	1.748	61	3046	0.6563	ug/L	97
11) Carbon Disulfide	1.762	76	2878	0.2908	ug/L #	94
12) 1,1,2-Trichloro-1,2,2-...	1.774	101	2301	0.7141	ug/L	96
14) Methylene Chloride	2.136	84	2415	0.6856	ug/L	96
15) Acetone	2.179	43	849	1.4267	ug/L #	43
16) trans-1,2-Dichloroethene	2.255	96	2209	0.6672	ug/L	96
17) Methyl Tert Butyl Ether	2.341	73	5567	0.6455	ug/L	92
18) 1,1-Dichloroethane	2.764	63	3776	0.6515	ug/L	100
21) cis-1,2-Dichloroethene	3.320	96	2500	0.6638	ug/L	100
22) 2,2-Dichloropropane	3.427	77	3562	0.7101	ug/L	89
23) Cyclohexane	3.523	56	1464	0.2782	ug/L #	82
24) Bromochloromethane	3.534	130	1222	0.5080	ug/L	97
25) Chloroform	3.656	83	4089	0.6629	ug/L	96
26) Carbon Tetrachloride	3.786	117	3078	0.6226	ug/L	98
28) 1,1,1-Trichloroethane	3.882	97	3701	0.6624	ug/L	98
29) 1,1-Dichloropropene	4.058	75	2810	0.6307	ug/L	88
30) 2-Butanone	4.073	43	280	0.2997	ug/L #	36
31) Benzene	4.371	78	9134	0.6824	ug/L	97
33) 1,2-Dichloroethane	4.640	62	2518	0.6245	ug/L #	88
34) Trichloroethene	5.089	130	2704	0.6607	ug/L	96
35) Dibromomethane	5.518	93	1242	0.6154	ug/L	98
36) 1,2-Dichloropropane	5.622	63	2271	0.6391	ug/L	98
37) Bromodichloromethane	5.720	83	3048	0.6392	ug/L	95
39) 2-Chloroethyl Vinyl Ether	6.317	63	439	0.2381	ug/L #	43
40) cis-1,3-Dichloropropene	6.337	75	3505	0.6343	ug/L	97
42) trans-1,3-Dichloropropene	6.948	75	2935	0.6097	ug/L	98
45) Toluene	6.546	91	10070	0.6740	ug/L	100
46) Tetrachloroethene	6.884	166	2747	0.6515	ug/L	97
47) 1,1,2-Trichloroethane	7.078	97	1891	0.6627	ug/L	95
48) Dibromochloromethane	7.220	129	2288	0.6050	ug/L	99
49) 1,3-Dichloropropane	7.304	76	2820	0.6233	ug/L	85
50) 1,2-Dibromoethane	7.400	107	1806	0.6246	ug/L	100
51) 2-Hexanone	7.640	43	683	0.4554	ug/L #	55
52) Chlorobenzene	7.819	112	6957	0.6908	ug/L #	60
53) 1-Chlorohexane	7.837	69	243	0.2981	ug/L #	1
54) Ethylbenzene	7.857	106	3554	0.6574	ug/L	82

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006667.D
Acq On : 09 Jul 2014 16:53
Operator : ADC
Sample : WG483481-02 0.3ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 16:20:43 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

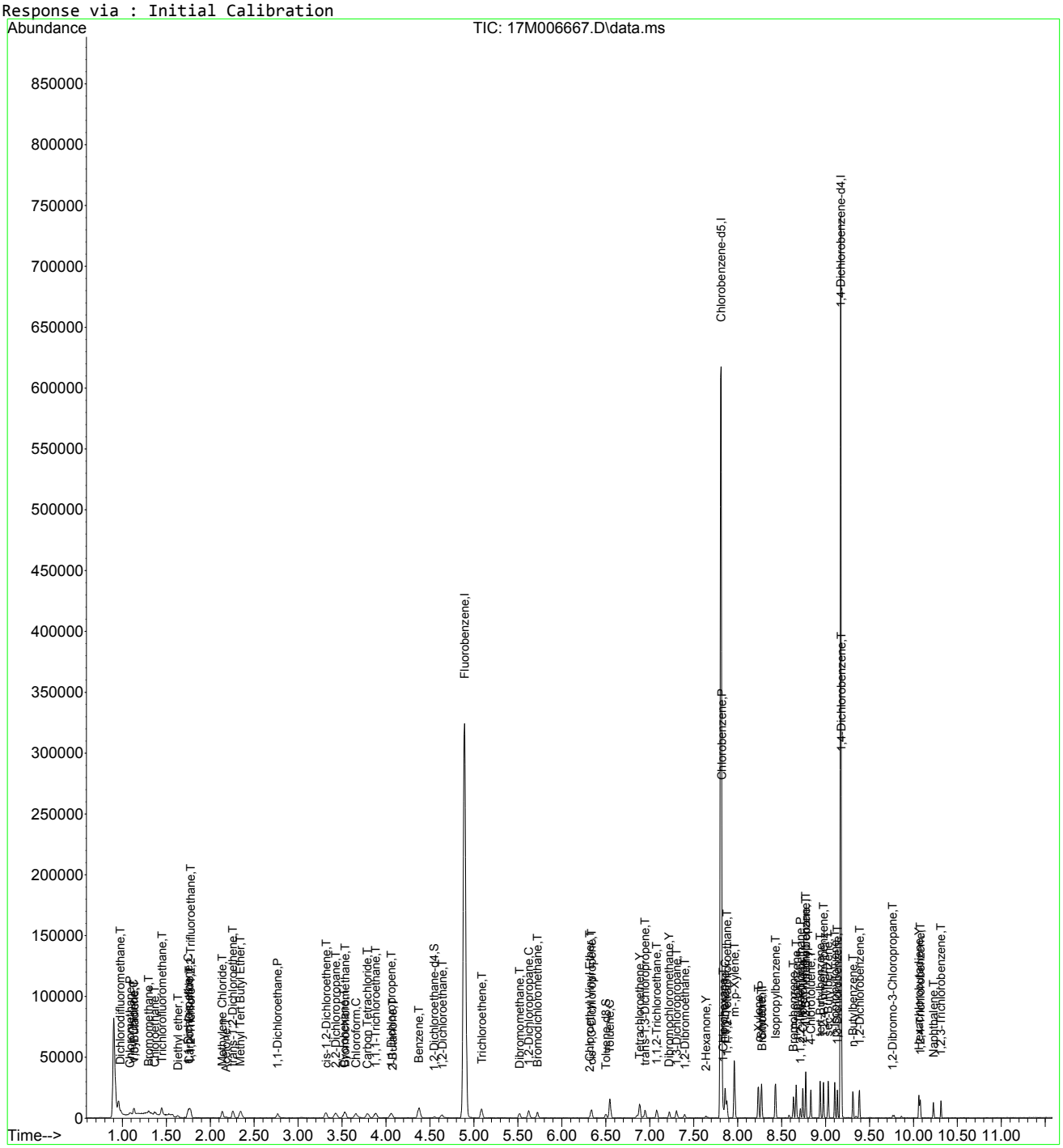
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
55) 1,1,1,2-Tetrachloroethane	7.877	131	2464	0.6554 ug/L	91
56) m-,p-Xylene	7.964	106	8238	1.2916 ug/L	94
57) o-Xylene	8.236	106	4162	0.6456 ug/L	96
58) Styrene	8.271	104	6496	0.6240 ug/L	98
59) Bromoform	8.277	173	1578	0.5920 ug/L	98
60) Isopropylbenzene	8.430	105	10911	0.6671 ug/L	100
62) 1,3,5-Trimethylbenzene	8.775	105	9000	0.7149 ug/L	100
64) Bromobenzene	8.633	156	2837	0.6915 ug/L	95
65) n-Propylbenzene	8.665	91	11578	0.7042 ug/L	99
66) 1,1,2,2-Tetrachloroethane	8.714	83	2166	0.7048 ug/L	98
67) 2-Chlorotoluene	8.740	91	7286	0.7216 ug/L	100
68) 1,2,3-Trichloropropane	8.775	110	557	0.6623 ug/L	94
69) 1,2,4-Trimethylbenzene	8.978	105	8839	0.7093 ug/L	100
70) 4-Chlorotoluene	8.833	91	7279	0.7093 ug/L	97
71) tert-Butylbenzene	8.940	134	1702	0.6968 ug/L	89
72) sec-Butylbenzene	9.030	105	10948	0.7128 ug/L	97
73) p-Isopropyltoluene	9.105	119	8900	0.6888 ug/L	99
74) 1,3-Dichlorobenzene	9.134	146	5063	0.6893 ug/L	98
75) 1,4-Dichlorobenzene	9.180	146	5113	0.6886 ug/L	94
76) n-Butylbenzene	9.311	91	6498	0.6139 ug/L	98
77) 1,2-Dichlorobenzene	9.386	146	4935	0.6897 ug/L	99
78) 1,2-Dibromo-3-Chloropr...	9.762	75	305	0.5938 ug/L	100
79) Hexachlorobutadiene	10.063	225	2151	0.6964 ug/L	97
80) 1,2,4-Trichlorobenzene	10.078	180	2770	0.7556 ug/L	97
81) Naphthalene	10.228	128	4539	0.7119 ug/L	100
82) 1,2,3-Trichlorobenzene	10.312	180	2472	0.5295 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006667.D
Acq On : 09 Jul 2014 16:53
Operator : ADC
Sample : WG483481-02 0.3ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 16:20:43 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



8260-VMS.M Wed Jul 16 16:20:44 2014 Page: 3

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006667.D
Acq On : 09 Jul 2014 16:53
Operator : ADC
Sample : WG483481-02 0.3ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 16:00:31 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Mon Jul 14 15:59:57 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.000
2	T	Dichlorodifluoromethane	-1.000	0.702	0.0	0	0.000
3	P	Chloromethane	-1.000	0.703	0.0	0	0.000
4	C	Vinyl Chloride	-1.000	0.674	0.0	0	0.000
5	T	1,3-Butadiene	-1.000	0.289	0.0	0	0.000
6	T	Bromomethane	-1.000	0.654	0.0	0	0.000
7	T	Chloroethane	-1.000	0.729	0.0	0	0.000
8	T	Trichlorofluoromethane	-1.000	0.666	0.0	0	0.000
9	T	Diethyl ether	-1.000	0.260	0.0	0	0.000
10	C	1,1-Dichloroethene	-1.000	0.656	0.0	0	0.000
11	T	Carbon Disulfide	-1.000	0.291	0.0	0	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	-1.000	0.714	0.0	0	0.000
13	T	Acrolein	-1.000	0.000	0.0	0	-1.971#
14	T	Methylene Chloride	-1.000	0.686	0.0	0	0.000
15	T	Acetone	-1.000	1.427	0.0	0	0.000
16	T	trans-1,2-Dichloroethene	-1.000	0.667	0.0	0	0.000
17	T	Methyl Tert Butyl Ether	-1.000	0.645	0.0	0	0.000
18	P	1,1-Dichloroethane	-1.000	0.651	0.0	0	0.000
19	T	Acrylonitrile	-1.000	0.000	0.0	0	-2.816#
20	T	Vinyl Acetate	-1.000	0.000	0.0	0	-3.031#
21	T	cis-1,2-Dichloroethene	-1.000	0.664	0.0	0	0.000
22	T	2,2-Dichloropropane	-1.000	0.710	0.0	0	0.000
23	T	Cyclohexane	-1.000	0.278	0.0	0	0.000
24	T	Bromochloromethane	-1.000	0.508	0.0	0	0.000
25	C	Chloroform	0.300	0.489	-63.0#	100	0.000
26	T	Carbon Tetrachloride	-1.000	0.623	0.0	0	0.000
27	S	Dibromofluoromethane	-1.000	0.103	0.0	0	0.000
28	T	1,1,1-Trichloroethane	-1.000	0.662	0.0	0	0.000
29	T	1,1-Dichloropropene	-1.000	0.631	0.0	0	0.000
30	T	2-Butanone	-1.000	0.300	0.0	0	0.000
31	T	Benzene	-1.000	0.682	0.0	0	0.000
32	S	1,2-Dichloroethane-d4	-1.000	0.222	0.0	0	0.000
33	T	1,2-Dichloroethane	-1.000	0.624	0.0	0	0.000
34	T	Trichloroethene	-1.000	0.661	0.0	0	0.000
35	T	Dibromomethane	-1.000	0.615	0.0	0	0.000
36	C	1,2-Dichloropropane	-1.000	0.639	0.0	0	0.000
37	T	Bromodichloromethane	-1.000	0.639	0.0	0	0.000
38	T	1,4-Dioxane	-1.000	0.000	0.0	0	-5.926#
39	T	2-Chloroethyl Vinyl Ether	-1.000	0.238	0.0	0	0.000
40	T	cis-1,3-Dichloropropene	-1.000	0.634	0.0	0	0.000
41	T	4-Methyl-2-Pentanone	-1.000	0.000	0.0	0	-6.922#
42	T	trans-1,3-Dichloropropene	-1.000	0.610	0.0	0	0.000
43	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
44	S	Toluene-d8	-1.000	0.160	0.0	0	0.000
45	C	Toluene	-1.000	0.674	0.0	0	0.000
46	Y	Tetrachloroethene	-1.000	0.651	0.0	0	0.000
47	T	1,1,2-Trichloroethane	-1.000	0.663	0.0	0	0.000
48	Y	Dibromochloromethane	-1.000	0.605	0.0	0	0.000
49	T	1,3-Dichloropropane	-1.000	0.623	0.0	0	0.000
50	T	1,2-Dibromoethane	-1.000	0.625	0.0	0	0.000
51	Y	2-Hexanone	-1.000	0.455	0.0	0	0.000
52	P	Chlorobenzene	-1.000	0.691	0.0	0	0.000
53	T	1-Chlorohexane	-1.000	0.298	0.0	0	0.000
54	C	Ethylbenzene	-1.000	0.657	0.0	0	0.000
55	T	1,1,1,2-Tetrachloroethane	-1.000	0.655	0.0	0	0.000

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006667.D
Acq On : 09 Jul 2014 16:53
Operator : ADC
Sample : WG483481-02 0.3ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 16:00:31 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Mon Jul 14 15:59:57 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
56	T	m-,p-Xylene	-1.000	1.292	0.0	0	0.000
57	T	o-Xylene	-1.000	0.646	0.0	0	0.000
58	T	Styrene	-1.000	0.624	0.0	0	0.000
59	P	Bromoform	-1.000	0.592	0.0	0	0.000
60	T	Isopropylbenzene	-1.000	0.667	0.0	0	0.000
61	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
62	T	1,3,5-Trimethylbenzene	-1.000	0.715	0.0	100	0.000
63	S	p-Bromofluorobenzene	-1.000	0.118	0.0	0	0.000
64	T	Bromobenzene	-1.000	0.691	0.0	100	0.000
65	T	n-Propylbenzene	-1.000	0.704	0.0	0	0.000
66	P	1,1,2,2-Tetrachloroethane	-1.000	0.705	0.0	0	0.000
67	T	2-Chlorotoluene	-1.000	0.722	0.0	0	0.000
68	T	1,2,3-Trichloropropane	-1.000	0.662	0.0	0	0.000
69	T	1,2,4-Trimethylbenzene	-1.000	0.709	0.0	0	0.000
70	T	4-Chlorotoluene	-1.000	0.709	0.0	0	0.000
71	T	tert-Butylbenzene	-1.000	0.697	0.0	0	0.000
72	T	sec-Butylbenzene	-1.000	0.713	0.0	0	0.000
73	T	p-Isopropyltoluene	-1.000	0.689	0.0	0	0.000
74	T	1,3-Dichlorobenzene	-1.000	0.689	0.0	0	0.000
75	T	1,4-Dichlorobenzene	-1.000	0.689	0.0	100	0.000
76	T	n-Butylbenzene	-1.000	0.614	0.0	0	0.000
77	T	1,2-Dichlorobenzene	-1.000	0.690	0.0	100	0.000
78	T	1,2-Dibromo-3-Chloropropane	-1.000	0.594	0.0	0	0.000
79	Y	Hexachlorobutadiene	-1.000	0.696	0.0	0	0.000
80	T	1,2,4-Trichlorobenzene	-1.000	0.570	0.0	0	0.000
81	T	Naphthalene	-1.000	0.524	0.0	0	0.000
82	T	1,2,3-Trichlorobenzene	-1.000	0.529	0.0	100	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006668.D
Acq On : 09 Jul 2014 17:13
Operator : ADC
Sample : WG483481-03 0.4ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 16:20:46 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.892	96	319475	25.00000	ug/L	0.0000
43) Chlorobenzene-d5	7.811	117	233973	25.00000	ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.174	152	112757	25.00000	ug/L	0.0000
System Monitoring Compounds						
27) Dibromofluoromethane	3.888	111	301	0.0778	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery	=	0.311%#	
32) 1,2-Dichloroethane-d4	4.556	65	721	0.1927	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery	=	0.771%#	
44) Toluene-d8	6.502	98	1895	0.1375	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery	=	0.550%#	
63) p-Bromofluorobenzene	8.587	95	435	0.0885	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery	=	0.354%#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.981	85	878	0.3443	ug/L #	72
3) Chloromethane	1.085	50	1273	0.4214	ug/L	85
4) Vinyl Chloride	1.128	62	1396	0.3851	ug/L	92
5) 1,3-Butadiene	1.137	54	1167	0.3871	ug/L	76
6) Bromomethane	1.299	94	895	0.4214	ug/L	99
7) Chloroethane	1.369	64	932	0.4338	ug/L	84
8) Trichlorofluoromethane	1.450	101	1878	0.3682	ug/L	91
9) Diethyl ether	1.632	59	966	0.3955	ug/L	86
10) 1,1-Dichloroethene	1.748	61	1805	0.3809	ug/L	100
11) Carbon Disulfide	1.762	76	4103	0.4062	ug/L	98
12) 1,1,2-Trichloro-1,2,2-...	1.771	101	1324	0.4025	ug/L	95
14) Methylene Chloride	2.139	84	1475	0.4102	ug/L	98
15) Acetone	2.176	43	924	1.5210	ug/L #	43
16) trans-1,2-Dichloroethene	2.263	96	1291	0.3820	ug/L	94
17) Methyl Tert Butyl Ether	2.344	73	3422	0.3887	ug/L	98
18) 1,1-Dichloroethane	2.773	63	2232	0.3772	ug/L	96
21) cis-1,2-Dichloroethene	3.311	96	1465	0.3810	ug/L	100
22) 2,2-Dichloropropane	3.424	77	2011	0.3927	ug/L #	81
23) Cyclohexane	3.523	56	2142	0.3988	ug/L #	92
24) Bromochloromethane	3.546	130	731	0.2977	ug/L	100
25) Chloroform	3.656	83	2517	0.3997	ug/L	96
26) Carbon Tetrachloride	3.789	117	1735	0.3438	ug/L #	95
28) 1,1,1-Trichloroethane	3.882	97	2148	0.3766	ug/L #	61
29) 1,1-Dichloropropene	4.058	75	1728	0.3799	ug/L	90
30) 2-Butanone	4.064	43	273	0.2863	ug/L #	36
31) Benzene	4.374	78	5277	0.3862	ug/L	94
33) 1,2-Dichloroethane	4.637	62	1520	0.3693	ug/L #	70
34) Trichloroethene	5.089	130	1643	0.3933	ug/L	90
35) Dibromomethane	5.518	93	686	0.3330	ug/L	99
36) 1,2-Dichloropropane	5.622	63	1330	0.3667	ug/L	88
37) Bromodichloromethane	5.726	83	1785	0.3667	ug/L	97
39) 2-Chloroethyl Vinyl Ether	6.317	63	597	0.3172	ug/L #	43
40) cis-1,3-Dichloropropene	6.340	75	2012	0.3567	ug/L	95
41) 4-Methyl-2-Pentanone	6.922	58	270	0.2899	ug/L #	21
42) trans-1,3-Dichloropropene	6.951	75	1765	0.3592	ug/L	97
45) Toluene	6.545	91	6182	0.3987	ug/L	99
46) Tetrachloroethene	6.887	166	1603	0.3663	ug/L	99
47) 1,1,2-Trichloroethane	7.084	97	1082	0.3653	ug/L	94
48) Dibromochloromethane	7.226	129	1405	0.3579	ug/L	95
49) 1,3-Dichloropropane	7.307	76	1779	0.3788	ug/L	85
50) 1,2-Dibromoethane	7.397	107	1098	0.3659	ug/L	96
51) 2-Hexanone	7.640	43	855	0.5492	ug/L #	69
52) Chlorobenzene	7.819	112	4180	0.3999	ug/L #	30
53) 1-Chlorohexane	7.837	69	275	0.3251	ug/L #	33

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006668.D
Acq On : 09 Jul 2014 17:13
Operator : ADC
Sample : WG483481-03 0.4ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 16:20:46 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

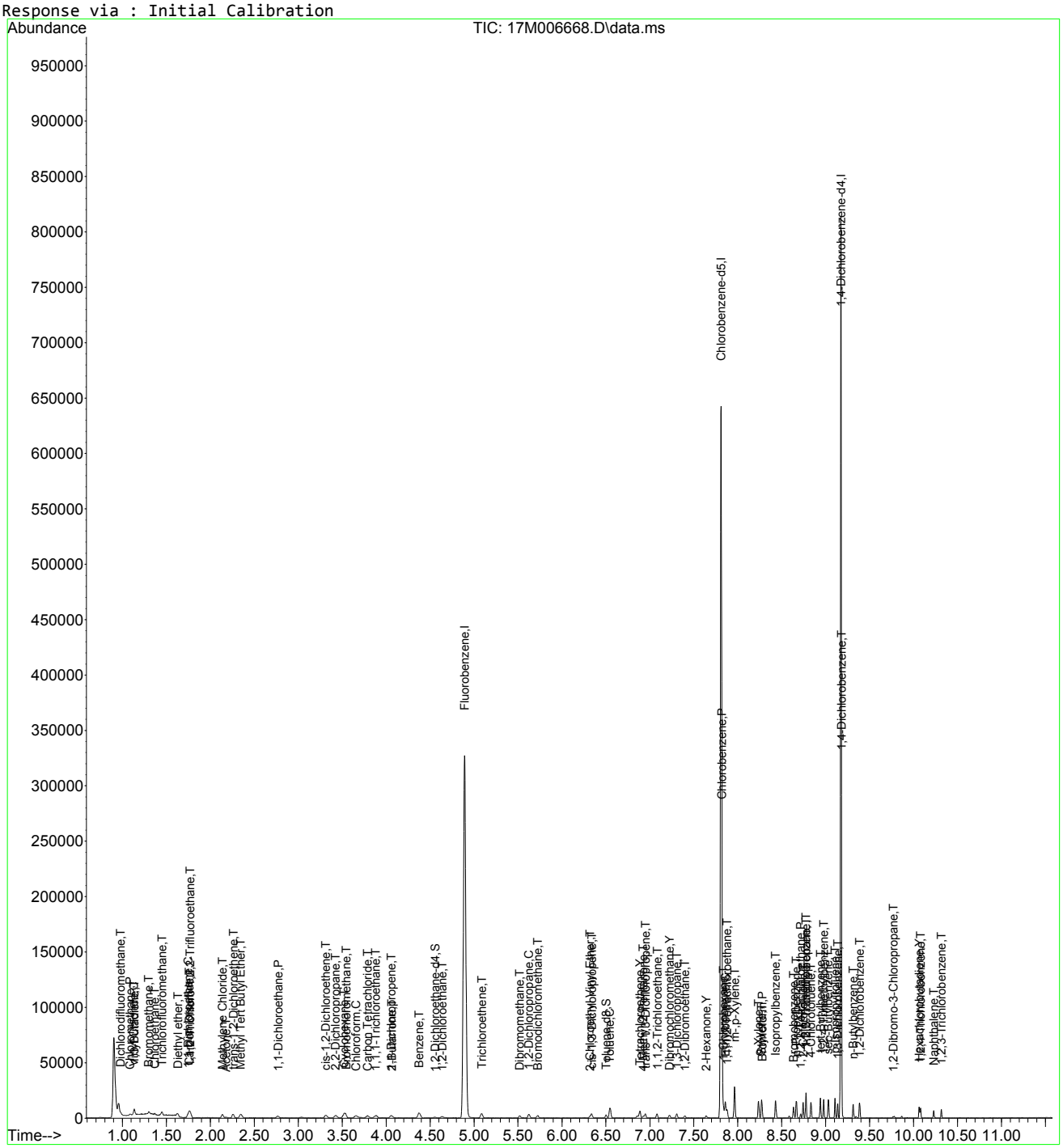
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
54) Ethylbenzene	7.857	106	2209	0.3937 ug/L	93
55) 1,1,1,2-Tetrachloroethane	7.877	131	1447	0.3708 ug/L	80
56) m-,p-Xylene	7.964	106	5056	0.7637 ug/L	97
57) o-Xylene	8.236	106	2522	0.3769 ug/L	100
58) Styrene	8.271	104	4011	0.3712 ug/L	99
59) Bromoform	8.277	173	873	0.3155 ug/L	93
60) Isopropylbenzene	8.430	105	6403	0.3772 ug/L	98
62) 1,3,5-Trimethylbenzene	8.775	105	5504	0.3997 ug/L	98
64) Bromobenzene	8.636	156	1695	0.3777 ug/L	97
65) n-Propylbenzene	8.665	91	6976	0.3879 ug/L	97
66) 1,1,2,2-Tetrachloroethane	8.714	83	1312	0.3903 ug/L	92
67) 2-Chlorotoluene	8.743	91	4446	0.4026 ug/L	99
68) 1,2,3-Trichloropropane	8.775	110	334	0.3631 ug/L #	92
69) 1,2,4-Trimethylbenzene	8.978	105	5224	0.3833 ug/L	98
70) 4-Chlorotoluene	8.833	91	4472	0.3984 ug/L	95
71) tert-Butylbenzene	8.940	134	982	0.3676 ug/L	85
72) sec-Butylbenzene	9.030	105	6455	0.3843 ug/L	96
73) p-Isopropyltoluene	9.105	119	5375	0.3804 ug/L	97
74) 1,3-Dichlorobenzene	9.137	146	3064	0.3814 ug/L	99
75) 1,4-Dichlorobenzene	9.180	146	3184	0.3920 ug/L	90
76) n-Butylbenzene	9.313	91	3908	0.3376 ug/L	99
77) 1,2-Dichlorobenzene	9.386	146	2939	0.3756 ug/L	99
78) 1,2-Dibromo-3-Chloropr...	9.768	75	167	0.2973 ug/L	84
79) Hexachlorobutadiene	10.063	225	1196	0.3540 ug/L	96
80) 1,2,4-Trichlorobenzene	10.078	180	1613	0.5215 ug/L	96
81) Naphthalene	10.228	128	2930	0.5225 ug/L	96
82) 1,2,3-Trichlorobenzene	10.315	180	1442	0.2824 ug/L	97

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006668.D
Acq On : 09 Jul 2014 17:13
Operator : ADC
Sample : WG483481-03 0.4ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 16:20:46 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



8260-VMS.M Wed Jul 16 16:20:47 2014 Page: 3

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006668.D
Acq On : 09 Jul 2014 17:13
Operator : ADC
Sample : WG483481-03 0.4ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 16:20:46 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.000
2	T	Dichlorodifluoromethane	0.400	0.344	14.0	100	0.000
3	P	Chloromethane	0.400	0.421	-5.2	100	0.000
4	C	Vinyl Chloride	0.400	0.385	3.8#	100	0.000
5	T	1,3-Butadiene	0.400	0.387	3.3	100	0.000
6	T	Bromomethane	0.400	0.421	-5.2	100	0.000
7	T	Chloroethane	0.400	0.434	-8.5	100	0.000
8	T	Trichlorofluoromethane	0.400	0.368	8.0	100	0.000
9	T	Diethyl ether	-1.000	0.395	0.0	0	0.000
10	C	1,1-Dichloroethene	0.400	0.381	4.8#	100	0.000
11	T	Carbon Disulfide	0.400	0.406	-1.5	100	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.400	0.402	-0.5	100	0.000
13	T	Acrolein	-1.000	0.000	0.0	0	-1.971#
14	T	Methylene Chloride	0.400	0.410	-2.5	100	0.000
15	T	Acetone	-1.000	1.521	0.0	0	0.000
16	T	trans-1,2-Dichloroethene	0.400	0.382	4.5	100	0.000
17	T	Methyl Tert Butyl Ether	0.400	0.389	2.8	100	0.000
18	P	1,1-Dichloroethane	0.400	0.377	5.8	100	0.000
19	T	Acrylonitrile	-1.000	0.000	0.0	0	-2.816#
20	T	Vinyl Acetate	-1.000	0.000	0.0	0	-3.031#
21	T	cis-1,2-Dichloroethene	0.400	0.381	4.8	100	0.000
22	T	2,2-Dichloropropane	0.400	0.393	1.8	100	0.000
23	T	Cyclohexane	0.400	0.399	0.3	100	0.000
24	T	Bromochloromethane	0.400	0.298	25.5#	100	0.012
25	C	Chloroform	0.400	0.400	0.0	100	0.000
26	T	Carbon Tetrachloride	0.400	0.344	14.0	100	0.000
27	S	Dibromofluoromethane	-1.000	0.078	0.0	0	0.000
28	T	1,1,1-Trichloroethane	0.400	0.377	5.8	100	0.000
29	T	1,1-Dichloropropene	0.400	0.380	5.0	100	0.000
30	T	2-Butanone	-1.000	0.286	0.0	0	0.000
31	T	Benzene	0.400	0.386	3.5	100	0.000
32	S	1,2-Dichloroethane-d4	-1.000	0.193	0.0	0	0.000
33	T	1,2-Dichloroethane	0.400	0.369	7.8	100	0.000
34	T	Trichloroethene	0.400	0.393	1.8	100	0.000
35	T	Dibromomethane	0.400	0.333	16.8	100	0.000
36	C	1,2-Dichloropropane	0.400	0.367	8.3#	100	0.000
37	T	Bromodichloromethane	0.400	0.367	8.3	100	0.000
38	T	1,4-Dioxane	-1.000	0.000	0.0	0	-5.926#
39	T	2-Chloroethyl Vinyl Ether	-1.000	0.317	0.0	0	0.000
40	T	cis-1,3-Dichloropropene	0.400	0.357	10.8	100	0.000
41	T	4-Methyl-2-Pentanone	-1.000	0.290	0.0	0	0.000
42	T	trans-1,3-Dichloropropene	0.400	0.359	10.3	100	0.000
43	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
44	S	Toluene-d8	-1.000	0.137	0.0	0	0.000
45	C	Toluene	0.400	0.399	0.3#	100	0.000
46	Y	Tetrachloroethene	0.400	0.366	8.5	100	0.000
47	T	1,1,2-Trichloroethane	0.400	0.365	8.8	100	0.000
48	Y	Dibromochloromethane	0.400	0.358	10.5	100	0.000
49	T	1,3-Dichloropropane	0.400	0.379	5.3	100	0.000
50	T	1,2-Dibromoethane	0.400	0.366	8.5	100	0.000
51	Y	2-Hexanone	-1.000	0.549	0.0	0	0.000
52	P	Chlorobenzene	-1.000	0.400	0.0	0	0.000
53	T	1-Chlorohexane	0.400	0.325	18.8	100	0.000
54	C	Ethylbenzene	0.400	0.394	1.5#	100	0.000
55	T	1,1,1,2-Tetrachloroethane	0.400	0.371	7.3	100	0.000

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006668.D
Acq On : 09 Jul 2014 17:13
Operator : ADC
Sample : WG483481-03 0.4ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 16:20:46 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
56	T	m-,p-Xylene	0.800	0.764	4.5	100	0.000
57	T	o-Xylene	0.400	0.377	5.8	100	0.000
58	T	Styrene	0.400	0.371	7.3	100	0.000
59	P	Bromoform	0.400	0.316	21.0	100	0.000
60	T	Isopropylbenzene	0.400	0.377	5.8	100	0.000
61	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
62	T	1,3,5-Trimethylbenzene	0.400	0.400	0.0	100	0.000
63	S	p-Bromofluorobenzene	-1.000	0.089	0.0	0	0.000
64	T	Bromobenzene	0.400	0.378	5.5	100	0.000
65	T	n-Propylbenzene	0.400	0.388	3.0	100	0.000
66	P	1,1,2,2-Tetrachloroethane	0.400	0.390	2.5	100	0.000
67	T	2-Chlorotoluene	0.400	0.403	-0.8	100	0.000
68	T	1,2,3-Trichloropropane	0.400	0.363	9.3	100	0.000
69	T	1,2,4-Trimethylbenzene	0.400	0.383	4.3	100	0.000
70	T	4-Chlorotoluene	0.400	0.398	0.5	100	0.000
71	T	tert-Butylbenzene	0.400	0.368	8.0	100	0.000
72	T	sec-Butylbenzene	0.400	0.384	4.0	100	0.000
73	T	p-Isopropyltoluene	0.400	0.380	5.0	100	0.000
74	T	1,3-Dichlorobenzene	0.400	0.381	4.8	100	0.000
75	T	1,4-Dichlorobenzene	0.400	0.392	2.0	100	0.000
76	T	n-Butylbenzene	0.400	0.338	15.5	100	0.000
77	T	1,2-Dichlorobenzene	0.400	0.376	6.0	100	0.000
78	T	1,2-Dibromo-3-Chloropropane	0.400	0.297	25.8#	100	0.000
79	Y	Hexachlorobutadiene	0.400	0.354	11.5	100	0.000
80	T	1,2,4-Trichlorobenzene	0.400	0.521	-30.3#	100	0.000
81	T	Naphthalene	0.400	0.523	-30.8#	100	0.000
82	T	1,2,3-Trichlorobenzene	-1.000	0.282	0.0	0	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 5

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006669.D
Acq On : 09 Jul 2014 17:33
Operator : ADC
Sample : WG483481-04 1.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 16:20:49 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.892	96	302472	25.00000	ug/L	0.0000
43) Chlorobenzene-d5	7.811	117	218527	25.00000	ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.174	152	108632	25.00000	ug/L	0.0000
System Monitoring Compounds						
27) Dibromofluoromethane	3.885	111	2128	0.5807	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 2.323%#			
32) 1,2-Dichloroethane-d4	4.554	65	2395	0.6762	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 2.705%#			
44) Toluene-d8	6.502	98	8411	0.6533	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 2.613%#			
63) p-Bromofluorobenzene	8.584	95	2746	0.5802	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 2.321%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.984	85	2336	0.9674	ug/L #	72
3) Chloromethane	1.088	50	2945	1.0296	ug/L	97
4) Vinyl Chloride	1.125	62	3592	1.0467	ug/L	96
5) 1,3-Butadiene	1.137	54	2721	0.9534	ug/L	85
6) Bromomethane	1.302	94	2006	0.9976	ug/L	99
7) Chloroethane	1.369	64	2294	1.1279	ug/L	96
8) Trichlorofluoromethane	1.447	101	5133	1.0628	ug/L	96
9) Diethyl ether	1.629	59	2286	0.9885	ug/L	93
10) 1,1-Dichloroethene	1.745	61	4649	1.0363	ug/L	100
11) Carbon Disulfide	1.765	76	9353	0.9779	ug/L	99
12) 1,1,2-Trichloro-1,2,2-...	1.771	101	3357	1.0778	ug/L	96
13) Acrolein	1.971	56	169	0.6033	ug/L #	1
14) Methylene Chloride	2.136	84	3675	1.0795	ug/L	99
15) Acetone	2.176	43	1364	2.3715	ug/L #	73
16) trans-1,2-Dichloroethene	2.258	96	3334	1.0419	ug/L	99
17) Methyl Tert Butyl Ether	2.344	73	9057	1.0865	ug/L	99
18) 1,1-Dichloroethane	2.770	63	6031	1.0766	ug/L	100
19) Acrylonitrile	2.816	53	660	0.8942	ug/L	88
21) cis-1,2-Dichloroethene	3.317	96	3806	1.0455	ug/L	98
22) 2,2-Dichloropropane	3.430	77	5336	1.1007	ug/L #	85
23) Cyclohexane	3.523	56	5008	0.9847	ug/L #	93
24) Bromochloromethane	3.537	130	2301	0.9896	ug/L	96
25) Chloroform	3.653	83	6456	1.0828	ug/L	99
26) Carbon Tetrachloride	3.783	117	4768	0.9978	ug/L #	91
28) 1,1,1-Trichloroethane	3.882	97	5792	1.0726	ug/L	95
29) 1,1-Dichloropropene	4.053	75	4505	1.0462	ug/L	94
30) 2-Butanone	4.064	43	1248	1.3823	ug/L #	47
31) Benzene	4.374	78	13816	1.0679	ug/L	99
33) 1,2-Dichloroethane	4.635	62	4168	1.0695	ug/L	97
34) Trichloroethene	5.089	130	4163	1.0524	ug/L	99
35) Dibromomethane	5.521	93	1954	1.0018	ug/L	98
36) 1,2-Dichloropropane	5.625	63	3673	1.0695	ug/L	94
37) Bromodichloromethane	5.723	83	4922	1.0680	ug/L	100
39) 2-Chloroethyl Vinyl Ether	6.320	63	1591	0.8927	ug/L	96
40) cis-1,3-Dichloropropene	6.337	75	5505	1.0308	ug/L	97
41) 4-Methyl-2-Pentanone	6.922	58	799	0.9061	ug/L	83
42) trans-1,3-Dichloropropene	6.948	75	4654	1.0004	ug/L	99
45) Toluene	6.546	91	15826	1.0927	ug/L	99
46) Tetrachloroethene	6.884	166	4269	1.0444	ug/L	99
47) 1,1,2-Trichloroethane	7.081	97	3011	1.0885	ug/L	98
48) Dibromochloromethane	7.223	129	3720	1.0146	ug/L	100
49) 1,3-Dichloropropane	7.304	76	4812	1.0972	ug/L	93
50) 1,2-Dibromoethane	7.397	107	2968	1.0589	ug/L	97
51) 2-Hexanone	7.643	43	1741	1.1975	ug/L #	83

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006669.D
Acq On : 09 Jul 2014 17:33
Operator : ADC
Sample : WG483481-04 1.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 16:20:49 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

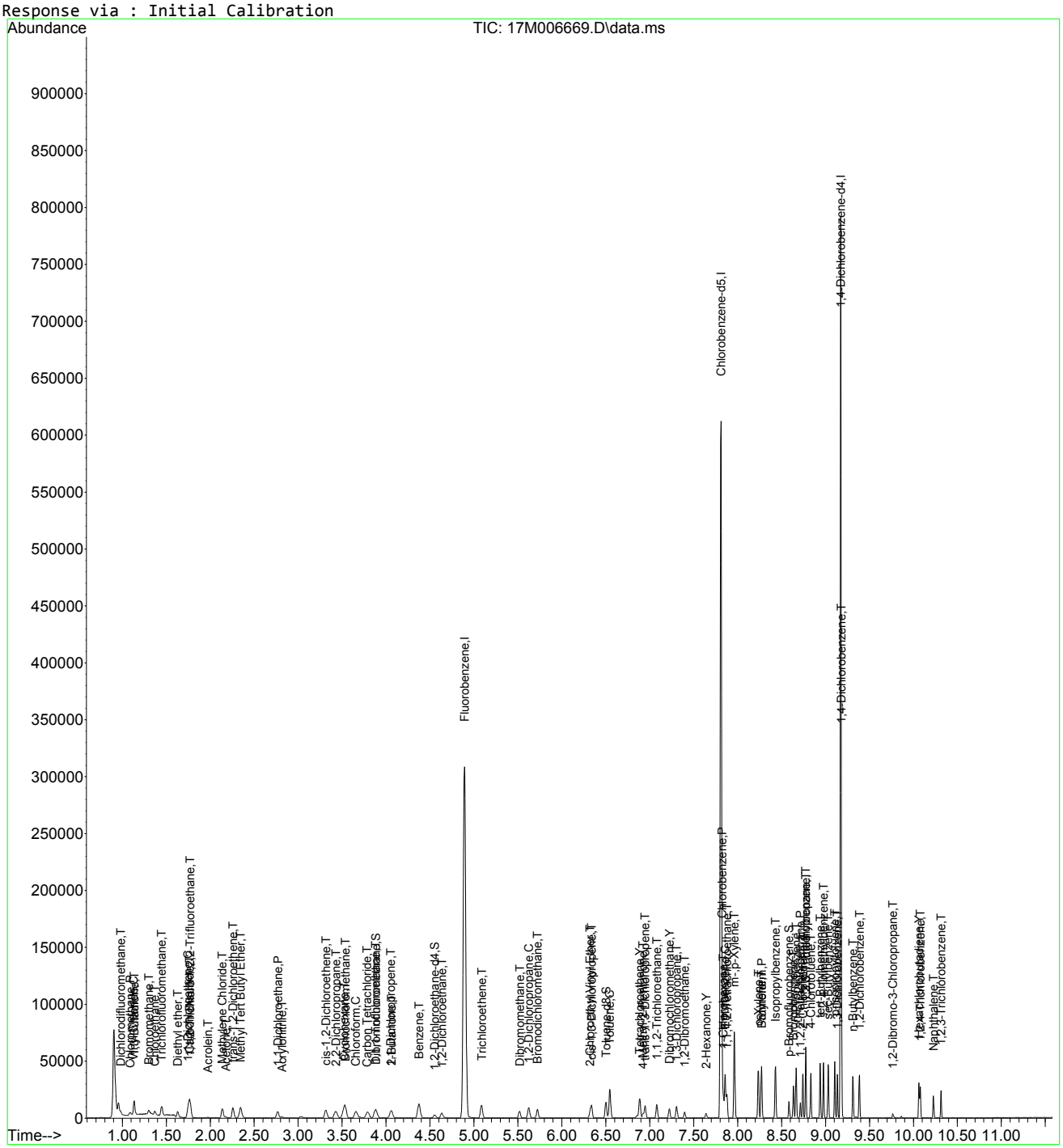
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
52) Chlorobenzene	7.822	112	10679	1.0938 ug/L	77
53) 1-Chlorohexane	7.837	69	714	0.9037 ug/L #	41
54) Ethylbenzene	7.857	106	5459	1.0416 ug/L	97
55) 1,1,1,2-Tetrachloroethane	7.877	131	3780	1.0372 ug/L	93
56) m-,p-Xylene	7.961	106	13092	2.1174 ug/L	97
57) o-Xylene	8.236	106	6743	1.0789 ug/L	99
58) Styrene	8.271	104	10498	1.0402 ug/L	100
59) Bromoform	8.274	173	2600	1.0062 ug/L	99
60) Isopropylbenzene	8.430	105	17057	1.0758 ug/L	99
62) 1,3,5-Trimethylbenzene	8.775	105	14350	1.0817 ug/L	99
64) Bromobenzene	8.633	156	4563	1.0555 ug/L	96
65) n-Propylbenzene	8.665	91	18643	1.0761 ug/L	98
66) 1,1,2,2-Tetrachloroethane	8.714	83	3479	1.0743 ug/L	97
67) 2-Chlorotoluene	8.743	91	11790	1.1081 ug/L	99
68) 1,2,3-Trichloropropane	8.775	110	1008	1.1374 ug/L	96
69) 1,2,4-Trimethylbenzene	8.978	105	14176	1.0796 ug/L	99
70) 4-Chlorotoluene	8.833	91	11671	1.0792 ug/L	98
71) tert-Butylbenzene	8.940	134	2781	1.0804 ug/L	96
72) sec-Butylbenzene	9.030	105	17405	1.0755 ug/L	99
73) p-Isopropyltoluene	9.105	119	14195	1.0426 ug/L	99
74) 1,3-Dichlorobenzene	9.134	146	8243	1.0650 ug/L	100
75) 1,4-Dichlorobenzene	9.180	146	8157	1.0425 ug/L	97
76) n-Butylbenzene	9.311	91	10506	0.9420 ug/L	98
77) 1,2-Dichlorobenzene	9.386	146	7831	1.0387 ug/L	99
78) 1,2-Dibromo-3-Chloropr...	9.765	75	512	0.9459 ug/L	97
79) Hexachlorobutadiene	10.063	225	3235	0.9939 ug/L	98
80) 1,2,4-Trichlorobenzene	10.078	180	4418	1.0127 ug/L	98
81) Naphthalene	10.228	128	7746	0.9981 ug/L	99
82) 1,2,3-Trichlorobenzene	10.315	180	4172	0.8481 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006669.D
Acq On : 09 Jul 2014 17:33
Operator : ADC
Sample : WG483481-04 1.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 16:20:49 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



8260-VMS.M Wed Jul 16 16:20:50 2014 Page: 3

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006669.D
Acq On : 09 Jul 2014 17:33
Operator : ADC
Sample : WG483481-04 1.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 16:20:49 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.000
2	T	Dichlorodifluoromethane	1.000	0.967	3.3	100	0.000
3	P	Chloromethane	1.000	1.030	-3.0	100	0.000
4	C	Vinyl Chloride	1.000	1.047	-4.7#	100	0.000
5	T	1,3-Butadiene	1.000	0.953	4.7	100	0.000
6	T	Bromomethane	1.000	0.998	0.2	100	0.000
7	T	Chloroethane	1.000	1.128	-12.8	100	0.000
8	T	Trichlorofluoromethane	1.000	1.063	-6.3	100	0.000
9	T	Diethyl ether	1.000	0.988	1.2	100	0.000
10	C	1,1-Dichloroethene	1.000	1.036	-3.6#	100	0.000
11	T	Carbon Disulfide	1.000	0.978	2.2	100	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	1.000	1.078	-7.8	100	0.000
13	T	Acrolein	-1.000	0.603	0.0	100	0.000
14	T	Methylene Chloride	1.000	1.080	-8.0	100	0.000
15	T	Acetone	-1.000	2.372	0.0	0	0.000
16	T	trans-1,2-Dichloroethene	1.000	1.042	-4.2	100	0.000
17	T	Methyl Tert Butyl Ether	1.000	1.087	-8.7	100	0.000
18	P	1,1-Dichloroethane	1.000	1.077	-7.7	100	0.000
19	T	Acrylonitrile	1.000	0.894	10.6	100	0.000
20	T	Vinyl Acetate	-1.000	0.000	0.0	0	-3.031#
21	T	cis-1,2-Dichloroethene	1.000	1.046	-4.6	100	0.000
22	T	2,2-Dichloropropane	1.000	1.101	-10.1	100	0.000
23	T	Cyclohexane	1.000	0.985	1.5	100	0.000
24	T	Bromochloromethane	1.000	0.990	1.0	100	0.000
25	C	Chloroform	1.000	1.083	-8.3#	100	0.000
26	T	Carbon Tetrachloride	1.000	0.998	0.2	100	0.000
27	S	Dibromofluoromethane	-1.000	0.581	0.0	0	0.000
28	T	1,1,1-Trichloroethane	1.000	1.073	-7.3	100	0.000
29	T	1,1-Dichloropropene	1.000	1.046	-4.6	100	0.000
30	T	2-Butanone	-1.000	1.382	0.0	0	0.000
31	T	Benzene	1.000	1.068	-6.8	100	0.000
32	S	1,2-Dichloroethane-d4	-1.000	0.676	0.0	0	0.000
33	T	1,2-Dichloroethane	1.000	1.070	-7.0	100	0.000
34	T	Trichloroethene	1.000	1.052	-5.2	100	0.000
35	T	Dibromomethane	1.000	1.002	-0.2	100	0.000
36	C	1,2-Dichloropropane	1.000	1.070	-7.0#	100	0.000
37	T	Bromodichloromethane	1.000	1.068	-6.8	100	0.000
38	T	1,4-Dioxane	2.000	0.000	100.0#	0	-5.926#
39	T	2-Chloroethyl Vinyl Ether	-1.000	0.893	0.0	0	0.000
40	T	cis-1,3-Dichloropropene	1.000	1.031	-3.1	100	0.000
41	T	4-Methyl-2-Pentanone	-1.000	0.906	0.0	0	0.000
42	T	trans-1,3-Dichloropropene	1.000	1.000	0.0	100	0.000
43	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
44	S	Toluene-d8	-1.000	0.653	0.0	0	0.000
45	C	Toluene	1.000	1.093	-9.3#	100	0.000
46	Y	Tetrachloroethene	1.000	1.044	-4.4	100	0.000
47	T	1,1,2-Trichloroethane	1.000	1.088	-8.8	100	0.000
48	Y	Dibromochloromethane	1.000	1.015	-1.5	100	0.000
49	T	1,3-Dichloropropane	1.000	1.097	-9.7	100	0.000
50	T	1,2-Dibromoethane	1.000	1.059	-5.9	100	0.000
51	Y	2-Hexanone	-1.000	1.197	0.0	0	0.000
52	P	Chlorobenzene	1.000	1.094	-9.4	100	0.000
53	T	1-Chlorohexane	1.000	0.904	9.6	100	0.000
54	C	Ethylbenzene	1.000	1.042	-4.2#	100	0.000
55	T	1,1,1,2-Tetrachloroethane	1.000	1.037	-3.7	100	0.000

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006669.D
Acq On : 09 Jul 2014 17:33
Operator : ADC
Sample : WG483481-04 1.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 16:20:49 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
56	T	m-,p-Xylene	2.000	2.117	-5.8	100	0.000
57	T	o-Xylene	1.000	1.079	-7.9	100	0.000
58	T	Styrene	1.000	1.040	-4.0	100	0.000
59	P	Bromoform	1.000	1.006	-0.6	100	0.000
60	T	Isopropylbenzene	1.000	1.076	-7.6	100	0.000
61	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
62	T	1,3,5-Trimethylbenzene	1.000	1.082	-8.2	100	0.000
63	S	p-Bromofluorobenzene	-1.000	0.580	0.0	0	0.000
64	T	Bromobenzene	1.000	1.055	-5.5	100	0.000
65	T	n-Propylbenzene	1.000	1.076	-7.6	100	0.000
66	P	1,1,2,2-Tetrachloroethane	1.000	1.074	-7.4	100	0.000
67	T	2-Chlorotoluene	1.000	1.108	-10.8	100	0.000
68	T	1,2,3-Trichloropropane	1.000	1.137	-13.7	100	0.000
69	T	1,2,4-Trimethylbenzene	1.000	1.080	-8.0	100	0.000
70	T	4-Chlorotoluene	1.000	1.079	-7.9	100	0.000
71	T	tert-Butylbenzene	1.000	1.080	-8.0	100	0.000
72	T	sec-Butylbenzene	1.000	1.076	-7.6	100	0.000
73	T	p-Isopropyltoluene	1.000	1.043	-4.3	100	0.000
74	T	1,3-Dichlorobenzene	1.000	1.065	-6.5	100	0.000
75	T	1,4-Dichlorobenzene	1.000	1.042	-4.2	100	0.000
76	T	n-Butylbenzene	1.000	0.942	5.8	100	0.000
77	T	1,2-Dichlorobenzene	1.000	1.039	-3.9	100	0.000
78	T	1,2-Dibromo-3-Chloropropane	1.000	0.946	5.4	100	0.000
79	Y	Hexachlorobutadiene	1.000	0.994	0.6	100	0.000
80	T	1,2,4-Trichlorobenzene	1.000	1.013	-1.3	100	0.000
81	T	Naphthalene	1.000	0.998	0.2	100	0.000
82	T	1,2,3-Trichlorobenzene	1.000	0.848	15.2	100	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006670.D
Acq On : 09 Jul 2014 17:52
Operator : ADC
Sample : WG483481-05 2.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 16:20:52 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.892	96	318927	25.00000	ug/L	0.0000
43) Chlorobenzene-d5	7.811	117	232737	25.00000	ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.172	152	115810	25.00000	ug/L	0.0000
System Monitoring Compounds						
27) Dibromofluoromethane	3.882	111	4072	1.0538	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 4.215%#			
32) 1,2-Dichloroethane-d4	4.554	65	4317	1.1559	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 4.624%#			
44) Toluene-d8	6.502	98	15214	1.1096	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 4.438%#			
63) p-Bromofluorobenzene	8.584	95	5271	1.0447	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 4.179%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.981	85	4417	1.7349	ug/L	92
3) Chloromethane	1.088	50	5640	1.8701	ug/L	97
4) Vinyl Chloride	1.125	62	6680	1.8461	ug/L	99
5) 1,3-Butadiene	1.134	54	5568	1.8503	ug/L	96
6) Bromomethane	1.302	94	3746	1.7668	ug/L	97
7) Chloroethane	1.372	64	4336	2.0218	ug/L	99
8) Trichlorofluoromethane	1.447	101	9638	1.8926	ug/L	99
9) Diethyl ether	1.632	59	4582	1.8790	ug/L	97
10) 1,1-Dichloroethene	1.748	61	8883	1.8780	ug/L	99
11) Carbon Disulfide	1.762	76	18252	1.8099	ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.777	101	6196	1.8867	ug/L	95
13) Acrolein	1.965	56	560	1.8959	ug/L	87
14) Methylene Chloride	2.139	84	6912	1.9256	ug/L	98
15) Acetone	2.176	43	1882	3.1033	ug/L	87
16) trans-1,2-Dichloroethene	2.258	96	6390	1.8938	ug/L	100
17) Methyl Tert Butyl Ether	2.344	73	16708	1.9009	ug/L	99
18) 1,1-Dichloroethane	2.767	63	11265	1.9071	ug/L	100
19) Acrylonitrile	2.819	53	1396	1.7937	ug/L	100
20) Vinyl Acetate	3.031	86	259	0.9635	ug/L #	1
21) cis-1,2-Dichloroethene	3.311	96	7295	1.9005	ug/L	99
22) 2,2-Dichloropropane	3.424	77	9796	1.9164	ug/L	91
23) Cyclohexane	3.526	56	10129	1.8889	ug/L	97
24) Bromochloromethane	3.531	130	4493	1.8327	ug/L	98
25) Chloroform	3.653	83	11963	1.9029	ug/L	100
26) Carbon Tetrachloride	3.792	117	9146	1.8152	ug/L	98
28) 1,1,1-Trichloroethane	3.882	97	10829	1.9020	ug/L	99
29) 1,1-Dichloropropene	4.061	75	8575	1.8887	ug/L	97
30) 2-Butanone	4.070	43	2016	2.1177	ug/L #	73
31) Benzene	4.377	78	25817	1.8926	ug/L	100
33) 1,2-Dichloroethane	4.635	62	7761	1.8888	ug/L	97
34) Trichloroethene	5.086	130	7850	1.8821	ug/L	98
35) Dibromomethane	5.521	93	3777	1.8365	ug/L	99
36) 1,2-Dichloropropane	5.622	63	6997	1.9323	ug/L	97
37) Bromodichloromethane	5.723	83	9017	1.8555	ug/L	99
39) 2-Chloroethyl Vinyl Ether	6.320	63	3333	1.7737	ug/L	98
40) cis-1,3-Dichloropropene	6.337	75	10306	1.8303	ug/L	99
41) 4-Methyl-2-Pentanone	6.922	58	1662	1.7875	ug/L	91
42) trans-1,3-Dichloropropene	6.948	75	8848	1.8037	ug/L	99
45) Toluene	6.548	91	29302	1.8996	ug/L	100
46) Tetrachloroethene	6.884	166	8137	1.8691	ug/L	99
47) 1,1,2-Trichloroethane	7.081	97	5761	1.9555	ug/L	98
48) Dibromochloromethane	7.223	129	7161	1.8339	ug/L	99
49) 1,3-Dichloropropane	7.304	76	9002	1.9272	ug/L	94
50) 1,2-Dibromoethane	7.394	107	5534	1.8538	ug/L	100

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006670.D
Acq On : 09 Jul 2014 17:52
Operator : ADC
Sample : WG483481-05 2.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 16:20:52 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

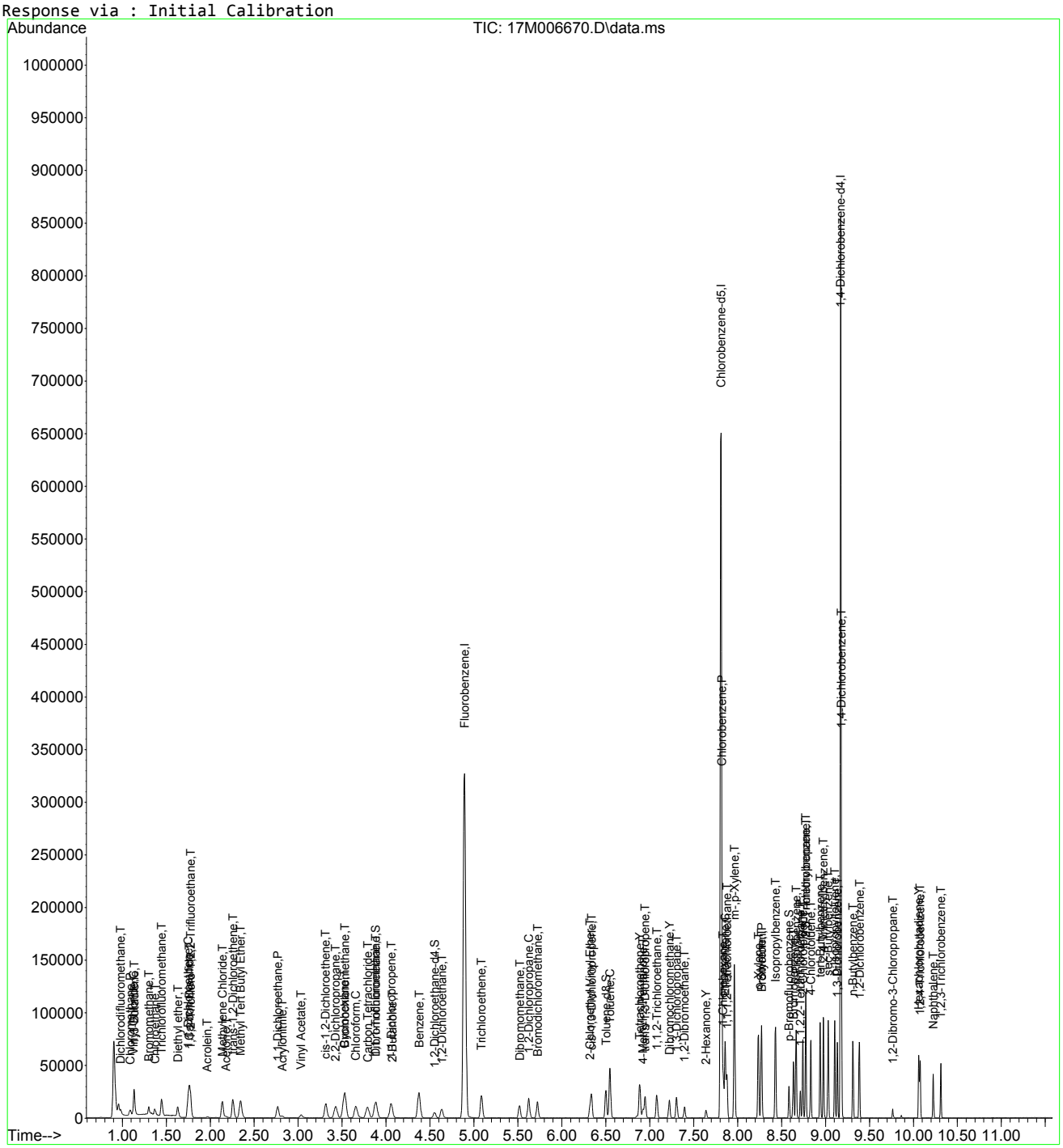
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
51)	2-Hexanone	7.640	43	3159	2.0401 ug/L	93
52)	Chlorobenzene	7.819	112	19809	1.9051 ug/L	86
53)	1-Chlorohexane	7.834	69	1540	1.8301 ug/L	75
54)	Ethylbenzene	7.857	106	10507	1.8824 ug/L	98
55)	1,1,1,2-Tetrachloroethane	7.877	131	7364	1.8973 ug/L	96
56)	m-,p-Xylene	7.964	106	24885	3.7789 ug/L	97
57)	o-Xylene	8.236	106	12630	1.8975 ug/L	100
58)	Styrene	8.271	104	19902	1.8516 ug/L	100
59)	Bromoform	8.274	173	5041	1.8317 ug/L	99
60)	Isopropylbenzene	8.430	105	32392	1.9183 ug/L	99
62)	1,3,5-Trimethylbenzene	8.775	105	27214	1.9242 ug/L	100
64)	Bromobenzene	8.636	156	8995	1.9517 ug/L	99
65)	n-Propylbenzene	8.665	91	35003	1.8952 ug/L	100
66)	1,1,2,2-Tetrachloroethane	8.714	83	6812	1.9731 ug/L	100
67)	2-Chlorotoluene	8.743	91	22014	1.9408 ug/L	99
68)	1,2,3-Trichloropropane	8.775	110	1873	1.9825 ug/L	98
69)	1,2,4-Trimethylbenzene	8.975	105	27153	1.9397 ug/L	100
70)	4-Chlorotoluene	8.833	91	22089	1.9160 ug/L	99
71)	tert-Butylbenzene	8.940	134	5487	1.9996 ug/L	96
72)	sec-Butylbenzene	9.030	105	33168	1.9225 ug/L	99
73)	p-Isopropyltoluene	9.105	119	27128	1.8691 ug/L	99
74)	1,3-Dichlorobenzene	9.134	146	15449	1.8722 ug/L	100
75)	1,4-Dichlorobenzene	9.180	146	15681	1.8799 ug/L	98
76)	n-Butylbenzene	9.311	91	20094	1.6900 ug/L	100
77)	1,2-Dichlorobenzene	9.386	146	15402	1.9163 ug/L	99
78)	1,2-Dibromo-3-Chloropr...	9.765	75	1052	1.8232 ug/L	99
79)	Hexachlorobutadiene	10.060	225	6187	1.7830 ug/L	99
80)	1,2,4-Trichlorobenzene	10.075	180	8852	1.6791 ug/L	99
81)	Naphthalene	10.226	128	15600	1.6634 ug/L	100
82)	1,2,3-Trichlorobenzene	10.312	180	8322	1.5868 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006670.D
Acq On : 09 Jul 2014 17:52
Operator : ADC
Sample : WG483481-05 2.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 16:20:52 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



8260-VMS.M Wed Jul 16 16:20:53 2014 Page: 3

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006670.D
Acq On : 09 Jul 2014 17:52
Operator : ADC
Sample : WG483481-05 2.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 16:20:52 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.000
2	T	Dichlorodifluoromethane	2.000	1.735	13.2	100	0.000
3	P	Chloromethane	2.000	1.870	6.5	100	0.000
4	C	Vinyl Chloride	2.000	1.846	7.7#	100	0.000
5	T	1,3-Butadiene	2.000	1.850	7.5	100	0.000
6	T	Bromomethane	2.000	1.767	11.7	100	0.000
7	T	Chloroethane	2.000	2.022	-1.1	100	0.000
8	T	Trichlorofluoromethane	2.000	1.893	5.3	100	0.000
9	T	Diethyl ether	2.000	1.879	6.0	100	0.000
10	C	1,1-Dichloroethene	2.000	1.878	6.1#	100	0.000
11	T	Carbon Disulfide	2.000	1.810	9.5	100	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	2.000	1.887	5.6	100	0.000
13	T	Acrolein	2.000	1.896	5.2	100	0.000
14	T	Methylene Chloride	2.000	1.926	3.7	100	0.000
15	T	Acetone	-1.000	3.103	0.0	100	0.000
16	T	trans-1,2-Dichloroethene	2.000	1.894	5.3	100	0.000
17	T	Methyl Tert Butyl Ether	2.000	1.901	4.9	100	0.000
18	P	1,1-Dichloroethane	2.000	1.907	4.6	100	0.000
19	T	Acrylonitrile	2.000	1.794	10.3	100	0.000
20	T	Vinyl Acetate	-1.000	0.963	0.0	100	0.000
21	T	cis-1,2-Dichloroethene	2.000	1.901	4.9	100	0.000
22	T	2,2-Dichloropropane	2.000	1.916	4.2	100	0.000
23	T	Cyclohexane	2.000	1.889	5.5	100	0.000
24	T	Bromochloromethane	2.000	1.833	8.4	100	0.000
25	C	Chloroform	2.000	1.903	4.8#	100	0.000
26	T	Carbon Tetrachloride	2.000	1.815	9.3	100	0.000
27	S	Dibromofluoromethane	-1.000	1.054	0.0	0	0.000
28	T	1,1,1-Trichloroethane	2.000	1.902	4.9	100	0.000
29	T	1,1-Dichloropropene	2.000	1.889	5.5	100	0.000
30	T	2-Butanone	2.000	2.118	-5.9	100	0.000
31	T	Benzene	2.000	1.893	5.3	100	0.000
32	S	1,2-Dichloroethane-d4	1.000	1.156	-15.6	100	0.000
33	T	1,2-Dichloroethane	2.000	1.889	5.5	100	0.000
34	T	Trichloroethene	2.000	1.882	5.9	100	0.000
35	T	Dibromomethane	2.000	1.837	8.2	100	0.000
36	C	1,2-Dichloropropane	2.000	1.932	3.4#	100	0.000
37	T	Bromodichloromethane	2.000	1.856	7.2	100	0.000
38	T	1,4-Dioxane	4.000	0.000	100.0#	0	-5.926#
39	T	2-Chloroethyl Vinyl Ether	2.000	1.774	11.3	100	0.000
40	T	cis-1,3-Dichloropropene	2.000	1.830	8.5	100	0.000
41	T	4-Methyl-2-Pentanone	-1.000	1.787	0.0	0	0.000
42	T	trans-1,3-Dichloropropene	2.000	1.804	9.8	100	0.000
43	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
44	S	Toluene-d8	-1.000	1.110	0.0	0	0.000
45	C	Toluene	2.000	1.900	5.0#	100	0.000
46	Y	Tetrachloroethene	2.000	1.869	6.6	100	0.000
47	T	1,1,2-Trichloroethane	2.000	1.955	2.2	100	0.000
48	Y	Dibromochloromethane	2.000	1.834	8.3	100	0.000
49	T	1,3-Dichloropropane	2.000	1.927	3.6	100	0.000
50	T	1,2-Dibromoethane	2.000	1.854	7.3	100	0.000
51	Y	2-Hexanone	2.000	2.040	-2.0	100	0.000
52	P	Chlorobenzene	2.000	1.905	4.7	100	0.000
53	T	1-Chlorohexane	2.000	1.830	8.5	100	0.000
54	C	Ethylbenzene	2.000	1.882	5.9#	100	0.000
55	T	1,1,1,2-Tetrachloroethane	2.000	1.897	5.1	100	0.000

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006670.D
Acq On : 09 Jul 2014 17:52
Operator : ADC
Sample : WG483481-05 2.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 16:20:52 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
56	T	m-,p-Xylene	4.000	3.779	5.5	100	0.000
57	T	o-Xylene	2.000	1.897	5.1	100	0.000
58	T	Styrene	2.000	1.852	7.4	100	0.000
59	P	Bromoform	2.000	1.832	8.4	100	0.000
60	T	Isopropylbenzene	2.000	1.918	4.1	100	0.000
61	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
62	T	1,3,5-Trimethylbenzene	2.000	1.924	3.8	100	0.000
63	S	p-Bromofluorobenzene	-1.000	1.045	0.0	0	0.000
64	T	Bromobenzene	2.000	1.952	2.4	100	0.000
65	T	n-Propylbenzene	2.000	1.895	5.2	100	0.000
66	P	1,1,2,2-Tetrachloroethane	2.000	1.973	1.3	100	0.000
67	T	2-Chlorotoluene	2.000	1.941	2.9	100	0.000
68	T	1,2,3-Trichloropropane	2.000	1.982	0.9	100	0.000
69	T	1,2,4-Trimethylbenzene	2.000	1.940	3.0	100	0.000
70	T	4-Chlorotoluene	2.000	1.916	4.2	100	0.000
71	T	tert-Butylbenzene	2.000	2.000	0.0	100	0.000
72	T	sec-Butylbenzene	2.000	1.923	3.8	100	0.000
73	T	p-Isopropyltoluene	2.000	1.869	6.6	100	0.000
74	T	1,3-Dichlorobenzene	2.000	1.872	6.4	100	0.000
75	T	1,4-Dichlorobenzene	2.000	1.880	6.0	100	0.000
76	T	n-Butylbenzene	2.000	1.690	15.5	100	0.000
77	T	1,2-Dichlorobenzene	2.000	1.916	4.2	100	0.000
78	T	1,2-Dibromo-3-Chloropropane	2.000	1.823	8.9	100	0.000
79	Y	Hexachlorobutadiene	2.000	1.783	10.9	100	0.000
80	T	1,2,4-Trichlorobenzene	2.000	1.679	16.0	100	0.000
81	T	Naphthalene	2.000	1.663	16.8	100	0.000
82	T	1,2,3-Trichlorobenzene	2.000	1.587	20.7	100	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006671.D
Acq On : 09 Jul 2014 18:12
Operator : ADC
Sample : WG483481-06 5.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 16:20:55 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.892	96	311575	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.811	117	227300	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.172	152	115308	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.882	111	9288	2.4603 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery	= 9.841%#	
32) 1,2-Dichloroethane-d4	4.551	65	9399	2.5761 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery	= 10.304%#	
44) Toluene-d8	6.502	98	34656	2.5879 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery	= 10.352%#	
63) p-Bromofluorobenzene	8.584	95	12464	2.4810 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery	= 9.924%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.981	85	11275	4.5330 ug/L	98
3) Chloromethane	1.088	50	13745	4.6651 ug/L	100
4) Vinyl Chloride	1.125	62	17042	4.8210 ug/L	98
5) 1,3-Butadiene	1.134	54	14225	4.8387 ug/L	98
6) Bromomethane	1.299	94	9158	4.4212 ug/L	98
7) Chloroethane	1.366	64	10701	5.1075 ug/L	92
8) Trichlorofluoromethane	1.444	101	24508	4.9263 ug/L	100
9) Diethyl ether	1.629	59	11362	4.7693 ug/L	98
10) 1,1-Dichloroethene	1.748	61	22528	4.8751 ug/L	100
11) Carbon Disulfide	1.762	76	47170	4.7878 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.774	101	15475	4.8234 ug/L	99
13) Acrolein	1.968	56	1391	4.8204 ug/L	92
14) Methylene Chloride	2.136	84	17114	4.8803 ug/L	100
15) Acetone	2.176	43	3627	6.1219 ug/L	97
16) trans-1,2-Dichloroethene	2.258	96	15998	4.8532 ug/L	100
17) Methyl Tert Butyl Ether	2.344	73	42315	4.9279 ug/L	99
18) 1,1-Dichloroethane	2.764	63	28279	4.9005 ug/L	99
19) Acrylonitrile	2.813	53	3802	5.0005 ug/L	98
20) Vinyl Acetate	3.033	86	1106	4.2115 ug/L	71
21) cis-1,2-Dichloroethene	3.311	96	18257	4.8686 ug/L	100
22) 2,2-Dichloropropane	3.427	77	24314	4.8688 ug/L	95
23) Cyclohexane	3.523	56	26000	4.9631 ug/L	98
24) Bromochloromethane	3.534	130	11662	4.8691 ug/L	96
25) Chloroform	3.656	83	29984	4.8821 ug/L	100
26) Carbon Tetrachloride	3.789	117	24412	4.9593 ug/L	99
28) 1,1,1-Trichloroethane	3.879	97	27033	4.8600 ug/L	98
29) 1,1-Dichloropropene	4.058	75	21636	4.8778 ug/L	98
30) 2-Butanone	4.067	43	4881	5.2482 ug/L #	90
31) Benzene	4.374	78	65653	4.9266 ug/L	100
33) 1,2-Dichloroethane	4.632	62	20074	5.0006 ug/L	99
34) Trichloroethene	5.083	130	19846	4.8706 ug/L	100
35) Dibromomethane	5.518	93	9965	4.9597 ug/L	99
36) 1,2-Dichloropropane	5.622	63	17398	4.9181 ug/L	99
37) Bromodichloromethane	5.723	83	23022	4.8493 ug/L	100
39) 2-Chloroethyl Vinyl Ether	6.317	63	8983	4.8932 ug/L	98
40) cis-1,3-Dichloropropene	6.337	75	26750	4.8627 ug/L	99
41) 4-Methyl-2-Pentanone	6.922	58	4454	4.9033 ug/L	97
42) trans-1,3-Dichloropropene	6.948	75	23190	4.8390 ug/L	99
45) Toluene	6.546	91	74391	4.9381 ug/L	100
46) Tetrachloroethene	6.887	166	20780	4.8875 ug/L	99
47) 1,1,2-Trichloroethane	7.081	97	14274	4.9610 ug/L	100
48) Dibromochloromethane	7.223	129	18409	4.8273 ug/L	99
49) 1,3-Dichloropropane	7.304	76	22814	5.0009 ug/L	97
50) 1,2-Dibromoethane	7.397	107	14376	4.9309 ug/L	99

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006671.D
Acq On : 09 Jul 2014 18:12
Operator : ADC
Sample : WG483481-06 5.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 16:20:55 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

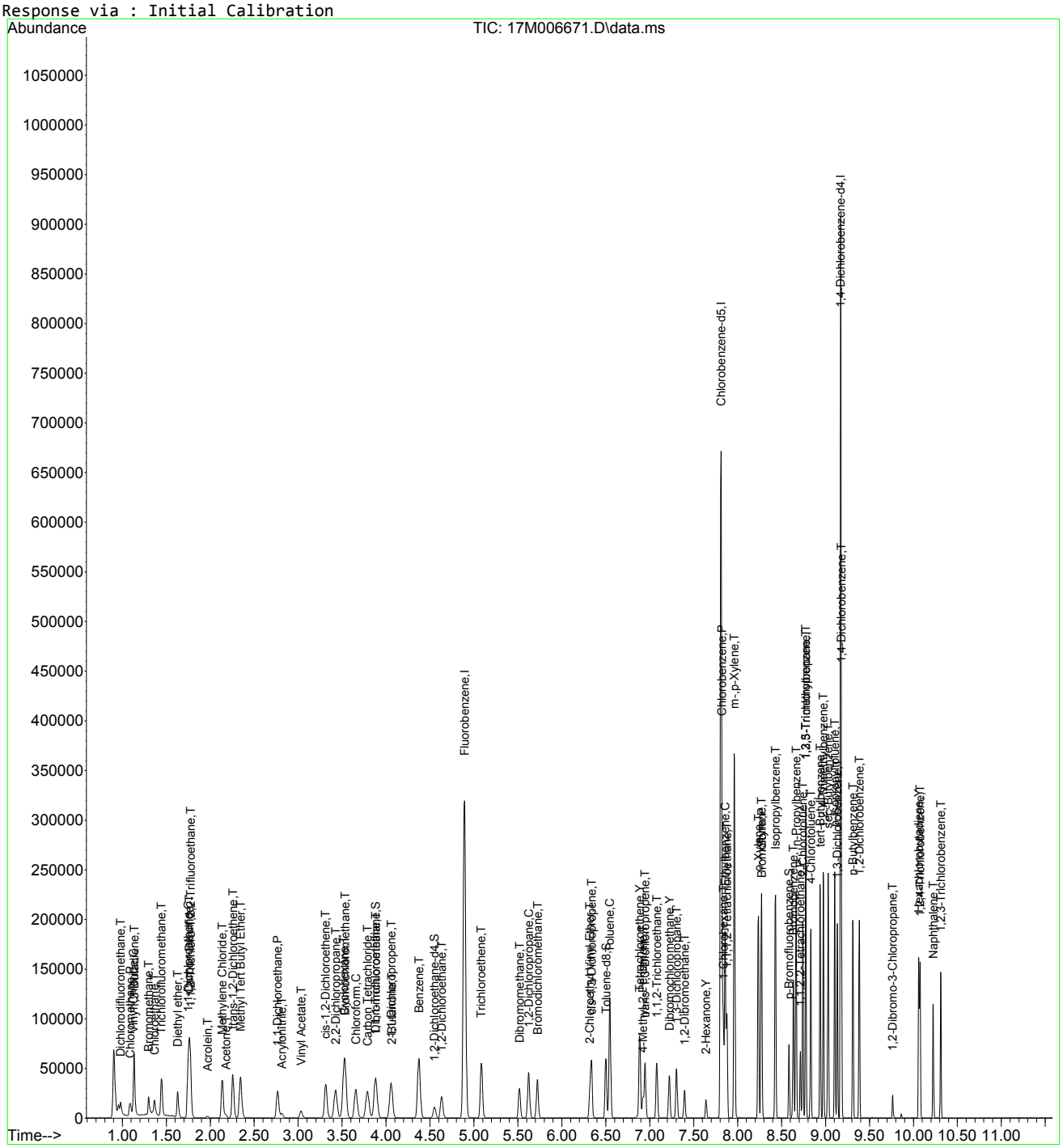
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
51) 2-Hexanone	7.640	43	7599	5.0248 ug/L	98
52) Chlorobenzene	7.819	112	49377	4.8623 ug/L	95
53) 1-Chlorohexane	7.840	69	4072	4.9547 ug/L	85
54) Ethylbenzene	7.857	106	26367	4.8368 ug/L	100
55) 1,1,1,2-Tetrachloroethane	7.877	131	18730	4.9411 ug/L	99
56) m-,p-Xylene	7.961	106	64165	9.9769 ug/L	98
57) o-Xylene	8.236	106	31973	4.9184 ug/L	99
58) Styrene	8.271	104	51785	4.9332 ug/L	99
59) Bromoform	8.274	173	12931	4.8111 ug/L	99
60) Isopropylbenzene	8.430	105	83272	5.0495 ug/L	99
62) 1,3,5-Trimethylbenzene	8.775	105	70929	5.0370 ug/L	99
64) Bromobenzene	8.633	156	22352	4.8710 ug/L	99
65) n-Propylbenzene	8.665	91	93195	5.0679 ug/L	99
66) 1,1,2,2-Tetrachloroethane	8.714	83	16941	4.9283 ug/L	100
67) 2-Chlorotoluene	8.740	91	56294	4.9845 ug/L	100
68) 1,2,3-Trichloropropane	8.775	110	4734	5.0325 ug/L	99
69) 1,2,4-Trimethylbenzene	8.975	105	70012	5.0232 ug/L	99
70) 4-Chlorotoluene	8.833	91	56338	4.9081 ug/L	100
71) tert-Butylbenzene	8.940	134	13822	5.0591 ug/L	100
72) sec-Butylbenzene	9.030	105	87204	5.0766 ug/L	99
73) p-Isopropyltoluene	9.105	119	71670	4.9594 ug/L	99
74) 1,3-Dichlorobenzene	9.134	146	40374	4.9142 ug/L	100
75) 1,4-Dichlorobenzene	9.180	146	40147	4.8339 ug/L	99
76) n-Butylbenzene	9.311	91	56194	4.7468 ug/L	100
77) 1,2-Dichlorobenzene	9.383	146	39797	4.9730 ug/L	99
78) 1,2-Dibromo-3-Chloropr...	9.762	75	2850	4.9607 ug/L	98
79) Hexachlorobutadiene	10.060	225	16419	4.7524 ug/L	100
80) 1,2,4-Trichlorobenzene	10.075	180	24447	4.2052 ug/L	99
81) Naphthalene	10.226	128	43244	4.1854 ug/L	99
82) 1,2,3-Trichlorobenzene	10.312	180	23165	4.4363 ug/L	100

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006671.D
Acq On : 09 Jul 2014 18:12
Operator : ADC
Sample : WG483481-06 5.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 16:20:55 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



8260-VMS.M Wed Jul 16 16:20:56 2014 Page: 3

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006671.D
Acq On : 09 Jul 2014 18:12
Operator : ADC
Sample : WG483481-06 5.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 16:20:55 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.000
2	T	Dichlorodifluoromethane	5.000	4.533	9.3	100	0.000
3	P	Chloromethane	5.000	4.665	6.7	100	0.000
4	C	Vinyl Chloride	5.000	4.821	3.6#	100	0.000
5	T	1,3-Butadiene	5.000	4.839	3.2	100	0.000
6	T	Bromomethane	5.000	4.421	11.6	100	0.000
7	T	Chloroethane	5.000	5.108	-2.2	100	0.000
8	T	Trichlorofluoromethane	5.000	4.926	1.5	100	0.000
9	T	Diethyl ether	5.000	4.769	4.6	100	0.000
10	C	1,1-Dichloroethene	5.000	4.875	2.5#	100	0.000
11	T	Carbon Disulfide	5.000	4.788	4.2	100	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	5.000	4.823	3.5	100	0.000
13	T	Acrolein	5.000	4.820	3.6	100	0.000
14	T	Methylene Chloride	5.000	4.880	2.4	100	0.000
15	T	Acetone	5.000	6.122	-22.4	100	0.000
16	T	trans-1,2-Dichloroethene	5.000	4.853	2.9	100	0.000
17	T	Methyl Tert Butyl Ether	5.000	4.928	1.4	100	0.000
18	P	1,1-Dichloroethane	5.000	4.900	2.0	100	0.000
19	T	Acrylonitrile	5.000	5.000	0.0	100	0.000
20	T	Vinyl Acetate	5.000	4.211	15.8	100	0.000
21	T	cis-1,2-Dichloroethene	5.000	4.869	2.6	100	0.000
22	T	2,2-Dichloropropane	5.000	4.869	2.6	100	0.000
23	T	Cyclohexane	5.000	4.963	0.7	100	0.000
24	T	Bromochloromethane	5.000	4.869	2.6	100	0.000
25	C	Chloroform	5.000	4.882	2.4#	100	0.000
26	T	Carbon Tetrachloride	5.000	4.959	0.8	100	0.000
27	S	Dibromofluoromethane	2.500	2.460	1.6	100	0.000
28	T	1,1,1-Trichloroethane	5.000	4.860	2.8	100	0.000
29	T	1,1-Dichloropropene	5.000	4.878	2.4	100	0.000
30	T	2-Butanone	5.000	5.248	-5.0	100	0.000
31	T	Benzene	5.000	4.927	1.5	100	0.000
32	S	1,2-Dichloroethane-d4	2.500	2.576	-3.0	100	0.000
33	T	1,2-Dichloroethane	5.000	5.001	-0.0	100	0.000
34	T	Trichloroethene	5.000	4.871	2.6	100	0.000
35	T	Dibromomethane	5.000	4.960	0.8	100	0.000
36	C	1,2-Dichloropropane	5.000	4.918	1.6#	100	0.000
37	T	Bromodichloromethane	5.000	4.849	3.0	100	0.000
38	T	1,4-Dioxane	10.000	0.000	100.0#	0	-5.926#
39	T	2-Chloroethyl Vinyl Ether	5.000	4.893	2.1	100	0.000
40	T	cis-1,3-Dichloropropene	5.000	4.863	2.7	100	0.000
41	T	4-Methyl-2-Pentanone	5.000	4.903	1.9	100	0.000
42	T	trans-1,3-Dichloropropene	5.000	4.839	3.2	100	0.000
43	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
44	S	Toluene-d8	2.500	2.588	-3.5	100	0.000
45	C	Toluene	5.000	4.938	1.2#	100	0.000
46	Y	Tetrachloroethene	5.000	4.888	2.2	100	0.000
47	T	1,1,2-Trichloroethane	5.000	4.961	0.8	100	0.000
48	Y	Dibromochloromethane	5.000	4.827	3.5	100	0.000
49	T	1,3-Dichloropropane	5.000	5.001	-0.0	100	0.000
50	T	1,2-Dibromoethane	5.000	4.931	1.4	100	0.000
51	Y	2-Hexanone	5.000	5.025	-0.5	100	0.000
52	P	Chlorobenzene	5.000	4.862	2.8	100	0.000
53	T	1-Chlorohexane	5.000	4.955	0.9	100	0.000
54	C	Ethylbenzene	5.000	4.837	3.3#	100	0.000
55	T	1,1,1,2-Tetrachloroethane	5.000	4.941	1.2	100	0.000

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006671.D
Acq On : 09 Jul 2014 18:12
Operator : ADC
Sample : WG483481-06 5.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 16:20:55 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
56	T	m-,p-Xylene	10.000	9.977	0.2	100	0.000
57	T	o-Xylene	5.000	4.918	1.6	100	0.000
58	T	Styrene	5.000	4.933	1.3	100	0.000
59	P	Bromoform	5.000	4.811	3.8	100	0.000
60	T	Isopropylbenzene	5.000	5.050	-1.0	100	0.000
61	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
62	T	1,3,5-Trimethylbenzene	5.000	5.037	-0.7	100	0.000
63	S	p-Bromofluorobenzene	2.500	2.481	0.8	100	0.000
64	T	Bromobenzene	5.000	4.871	2.6	100	0.000
65	T	n-Propylbenzene	5.000	5.068	-1.4	100	0.000
66	P	1,1,2,2-Tetrachloroethane	5.000	4.928	1.4	100	0.000
67	T	2-Chlorotoluene	5.000	4.985	0.3	100	0.000
68	T	1,2,3-Trichloropropane	5.000	5.032	-0.6	100	0.000
69	T	1,2,4-Trimethylbenzene	5.000	5.023	-0.5	100	0.000
70	T	4-Chlorotoluene	5.000	4.908	1.8	100	0.000
71	T	tert-Butylbenzene	5.000	5.059	-1.2	100	0.000
72	T	sec-Butylbenzene	5.000	5.077	-1.5	100	0.000
73	T	p-Isopropyltoluene	5.000	4.959	0.8	100	0.000
74	T	1,3-Dichlorobenzene	5.000	4.914	1.7	100	0.000
75	T	1,4-Dichlorobenzene	5.000	4.834	3.3	100	0.000
76	T	n-Butylbenzene	5.000	4.747	5.1	100	0.000
77	T	1,2-Dichlorobenzene	5.000	4.973	0.5	100	0.000
78	T	1,2-Dibromo-3-Chloropropane	5.000	4.961	0.8	100	0.000
79	Y	Hexachlorobutadiene	5.000	4.752	5.0	100	0.000
80	T	1,2,4-Trichlorobenzene	5.000	4.205	15.9	100	0.000
81	T	Naphthalene	5.000	4.185	16.3	100	0.000
82	T	1,2,3-Trichlorobenzene	5.000	4.436	11.3	100	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006672.D
Acq On : 09 Jul 2014 18:32
Operator : ADC
Sample : WG483481-07 20.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 16:20:58 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.892	96	301115	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.811	117	220662	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.174	152	114362	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.885	111	37378	10.2450 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 40.980%#		
32) 1,2-Dichloroethane-d4	4.553	65	35795	10.1516 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 40.606%#		
44) Toluene-d8	6.499	98	135258	10.4042 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 41.617%#		
63) p-Bromofluorobenzene	8.584	95	51456	10.3272 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 41.309%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.981	85	53983	22.4573 ug/L	100
3) Chloromethane	1.088	50	59180	20.7836 ug/L	100
4) Vinyl Chloride	1.125	62	72755	21.2965 ug/L	99
5) 1,3-Butadiene	1.134	54	59087	20.7969 ug/L	99
6) Bromomethane	1.299	94	39679	19.8211 ug/L	99
7) Chloroethane	1.366	64	44732	22.0919 ug/L	100
8) Trichlorofluoromethane	1.444	101	102180	21.2524 ug/L	100
9) Diethyl ether	1.629	59	46445	20.1730 ug/L	99
10) 1,1-Dichloroethene	1.745	61	94437	21.1463 ug/L	99
11) Carbon Disulfide	1.762	76	189812	19.9353 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.774	101	64341	20.7512 ug/L	100
13) Acrolein	1.968	56	5570	19.9727 ug/L	100
14) Methylene Chloride	2.136	84	69299	20.4479 ug/L	100
15) Acetone	2.176	43	12935	22.5910 ug/L	96
16) trans-1,2-Dichloroethene	2.257	96	66381	20.8371 ug/L	100
17) Methyl Tert Butyl Ether	2.344	73	175020	21.0905 ug/L	100
18) 1,1-Dichloroethane	2.767	63	116882	20.9581 ug/L	99
19) Acrylonitrile	2.816	53	14939	20.3306 ug/L	99
20) Vinyl Acetate	3.033	86	5627	22.1711 ug/L	95
21) cis-1,2-Dichloroethene	3.311	96	75579	20.8550 ug/L	100
22) 2,2-Dichloropropane	3.424	77	100364	20.7955 ug/L	99
23) Cyclohexane	3.520	56	102095	20.1657 ug/L	99
24) Bromochloromethane	3.534	130	50706	21.9059 ug/L	99
25) Chloroform	3.653	83	123253	20.7655 ug/L	100
26) Carbon Tetrachloride	3.786	117	101244	21.2824 ug/L	99
28) 1,1,1-Trichloroethane	3.879	97	112574	20.9415 ug/L	100
29) 1,1-Dichloropropene	4.058	75	89646	20.9127 ug/L	100
30) 2-Butanone	4.061	43	19235	21.4003 ug/L	96
31) Benzene	4.374	78	269450	20.9217 ug/L	100
33) 1,2-Dichloroethane	4.632	62	82658	21.3059 ug/L	100
34) Trichloroethene	5.083	130	80539	20.4524 ug/L	99
35) Dibromomethane	5.518	93	41420	21.3314 ug/L	100
36) 1,2-Dichloropropane	5.622	63	71481	20.9081 ug/L	100
37) Bromodichloromethane	5.720	83	95593	20.8351 ug/L	100
38) 1,4-Dioxane	5.926	88	823	32.8907 ug/L	94
39) 2-Chloroethyl Vinyl Ether	6.317	63	38344	21.6123 ug/L	100
40) cis-1,3-Dichloropropene	6.337	75	112362	21.1348 ug/L	100
41) 4-Methyl-2-Pentanone	6.922	58	18747	21.3552 ug/L	98
42) trans-1,3-Dichloropropene	6.948	75	98245	21.2125 ug/L	100
45) Toluene	6.545	91	308781	21.1136 ug/L	100
46) Tetrachloroethene	6.887	166	86545	20.9680 ug/L	100
47) 1,1,2-Trichloroethane	7.078	97	59241	21.2087 ug/L	99
48) Dibromochloromethane	7.223	129	78525	21.2105 ug/L	100
49) 1,3-Dichloropropane	7.304	76	93298	21.0666 ug/L	99

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006672.D
Acq On : 09 Jul 2014 18:32
Operator : ADC
Sample : WG483481-07 20.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 16:20:58 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

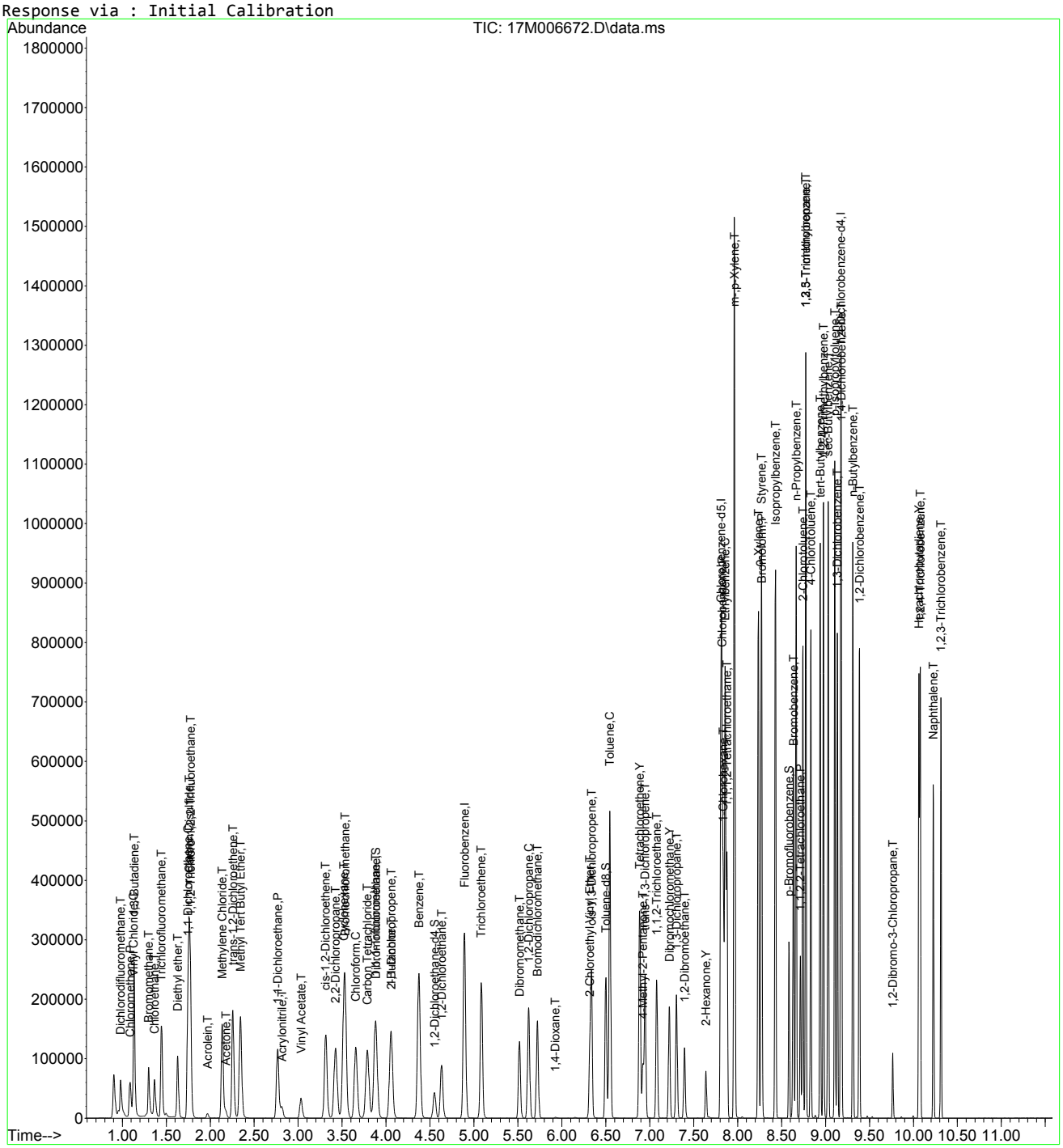
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) 1,2-Dibromoethane	7.397	107	60063	21.2210 ug/L	100
51) 2-Hexanone	7.640	43	32005	21.7999 ug/L	99
52) Chlorobenzene	7.822	112	205452	20.8400 ug/L	99
53) 1-Chlorohexane	7.837	69	16552	20.7458 ug/L	80
54) Ethylbenzene	7.857	106	110238	20.8305 ug/L	99
55) 1,1,1,2-Tetrachloroethane	7.877	131	78025	21.2027 ug/L	100
56) m-,p-Xylene	7.964	106	267608	42.8616 ug/L	99
57) o-Xylene	8.236	106	132050	20.9243 ug/L	100
58) Styrene	8.271	104	217435	21.3365 ug/L	99
59) Bromoform	8.274	173	55476	21.2614 ug/L	99
60) Isopropylbenzene	8.430	105	344085	21.4927 ug/L	100
62) 1,3,5-Trimethylbenzene	8.775	105	297769	21.3210 ug/L	100
64) Bromobenzene	8.636	156	94209	20.7000 ug/L	99
65) n-Propylbenzene	8.665	91	393878	21.5959 ug/L	99
66) 1,1,2,2-Tetrachloroethane	8.714	83	72392	21.2336 ug/L	100
67) 2-Chlorotoluene	8.743	91	232464	20.7536 ug/L	100
68) 1,2,3-Trichloropropane	8.775	110	19656	21.0680 ug/L	100
69) 1,2,4-Trimethylbenzene	8.978	105	297832	21.5455 ug/L	99
70) 4-Chlorotoluene	8.833	91	238469	20.9469 ug/L	100
71) tert-Butylbenzene	8.940	134	56526	20.8605 ug/L	100
72) sec-Butylbenzene	9.030	105	370498	21.7470 ug/L	99
73) p-Isopropyltoluene	9.105	119	314674	21.9549 ug/L	100
74) 1,3-Dichlorobenzene	9.134	146	171356	21.0293 ug/L	100
75) 1,4-Dichlorobenzene	9.180	146	173315	21.0406 ug/L	100
76) n-Butylbenzene	9.311	91	262412	22.3498 ug/L	100
77) 1,2-Dichlorobenzene	9.386	146	169530	21.3596 ug/L	100
78) 1,2-Dibromo-3-Chloropr...	9.765	75	12652	22.2040 ug/L	97
79) Hexachlorobutadiene	10.063	225	72773	21.2381 ug/L	100
80) 1,2,4-Trichlorobenzene	10.078	180	118858	19.6196 ug/L	99
81) Naphthalene	10.225	128	212620	19.7602 ug/L	100
82) 1,2,3-Trichlorobenzene	10.312	180	111535	21.5367 ug/L	100

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006672.D
Acq On : 09 Jul 2014 18:32
Operator : ADC
Sample : WG483481-07 20.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 16:20:58 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



8260-VMS.M Wed Jul 16 16:20:59 2014 Page: 3

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006673.D
Acq On : 09 Jul 2014 18:51
Operator : ADC
Sample : WG483481-08 50.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 16:21:01 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.892	96	297452	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.811	117	220078	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.174	152	113665	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.882	111	89894	24.9426 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.770%		
32) 1,2-Dichloroethane-d4	4.551	65	83418	23.9490 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 95.796%		
44) Toluene-d8	6.502	98	324226	25.0061 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 100.024%		
63) p-Bromofluorobenzene	8.584	95	124146	25.0687 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.275%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.981	85	129789	54.6579 ug/L	100
3) Chloromethane	1.088	50	143107	50.8770 ug/L	100
4) Vinyl Chloride	1.125	62	175408	51.9769 ug/L	100
5) 1,3-Butadiene	1.134	54	151391	53.9415 ug/L	100
6) Bromomethane	1.299	94	101835	51.4968 ug/L	100
7) Chloroethane	1.363	64	94004	46.9977 ug/L	100
8) Trichlorofluoromethane	1.444	101	246812	51.9665 ug/L	100
9) Diethyl ether	1.629	59	119923	52.7291 ug/L	100
10) 1,1-Dichloroethene	1.745	61	229644	52.0551 ug/L	100
11) Carbon Disulfide	1.762	76	496157	52.7515 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.774	101	156765	51.1824 ug/L	100
13) Acrolein	1.971	56	14161	51.4033 ug/L	100
14) Methylene Chloride	2.136	84	167827	50.1301 ug/L	100
15) Acetone	2.176	43	27647	48.8801 ug/L	100
16) trans-1,2-Dichloroethene	2.255	96	161287	51.2516 ug/L	100
17) Methyl Tert Butyl Ether	2.344	73	417608	50.9429 ug/L	100
18) 1,1-Dichloroethane	2.767	63	283111	51.3898 ug/L	100
19) Acrylonitrile	2.816	53	38632	53.2220 ug/L	100
20) Vinyl Acetate	3.031	86	13407	53.4758 ug/L	100
21) cis-1,2-Dichloroethene	3.314	96	183229	51.1821 ug/L	100
22) 2,2-Dichloropropane	3.424	77	243973	51.1740 ug/L	100
23) Cyclohexane	3.520	56	263091	52.6053 ug/L	100
24) Bromochloromethane	3.534	130	124319	54.3695 ug/L	100
25) Chloroform	3.656	83	298396	50.8925 ug/L	100
26) Carbon Tetrachloride	3.786	117	250618	53.3309 ug/L	100
28) 1,1,1-Trichloroethane	3.879	97	272959	51.4023 ug/L	100
29) 1,1-Dichloropropene	4.055	75	218614	51.6266 ug/L	100
30) 2-Butanone	4.064	43	42862	48.2743 ug/L	100
31) Benzene	4.374	78	649298	51.0362 ug/L	100
33) 1,2-Dichloroethane	4.632	62	197273	51.4753 ug/L	100
34) Trichloroethene	5.083	130	195606	50.2848 ug/L	100
35) Dibromomethane	5.518	93	100995	52.6532 ug/L	100
36) 1,2-Dichloropropane	5.622	63	172637	51.1180 ug/L	100
37) Bromodichloromethane	5.723	83	233349	51.4861 ug/L	100
38) 1,4-Dioxane	5.926	88	2480	100.3321 ug/L	100
39) 2-Chloroethyl Vinyl Ether	6.317	63	88834	50.6872 ug/L	100
40) cis-1,3-Dichloropropene	6.337	75	274125	52.1968 ug/L	100
41) 4-Methyl-2-Pentanone	6.922	58	42972	49.5534 ug/L	100
42) trans-1,3-Dichloropropene	6.948	75	240165	52.4936 ug/L	100
45) Toluene	6.545	91	750798	51.4737 ug/L	100
46) Tetrachloroethene	6.887	166	212920	51.7229 ug/L	100
47) 1,1,2-Trichloroethane	7.078	97	142133	51.0196 ug/L	100
48) Dibromochloromethane	7.223	129	194251	52.6086 ug/L	100
49) 1,3-Dichloropropane	7.304	76	225661	51.0892 ug/L	100

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006673.D
Acq On : 09 Jul 2014 18:51
Operator : ADC
Sample : WG483481-08 50.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 16:21:01 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

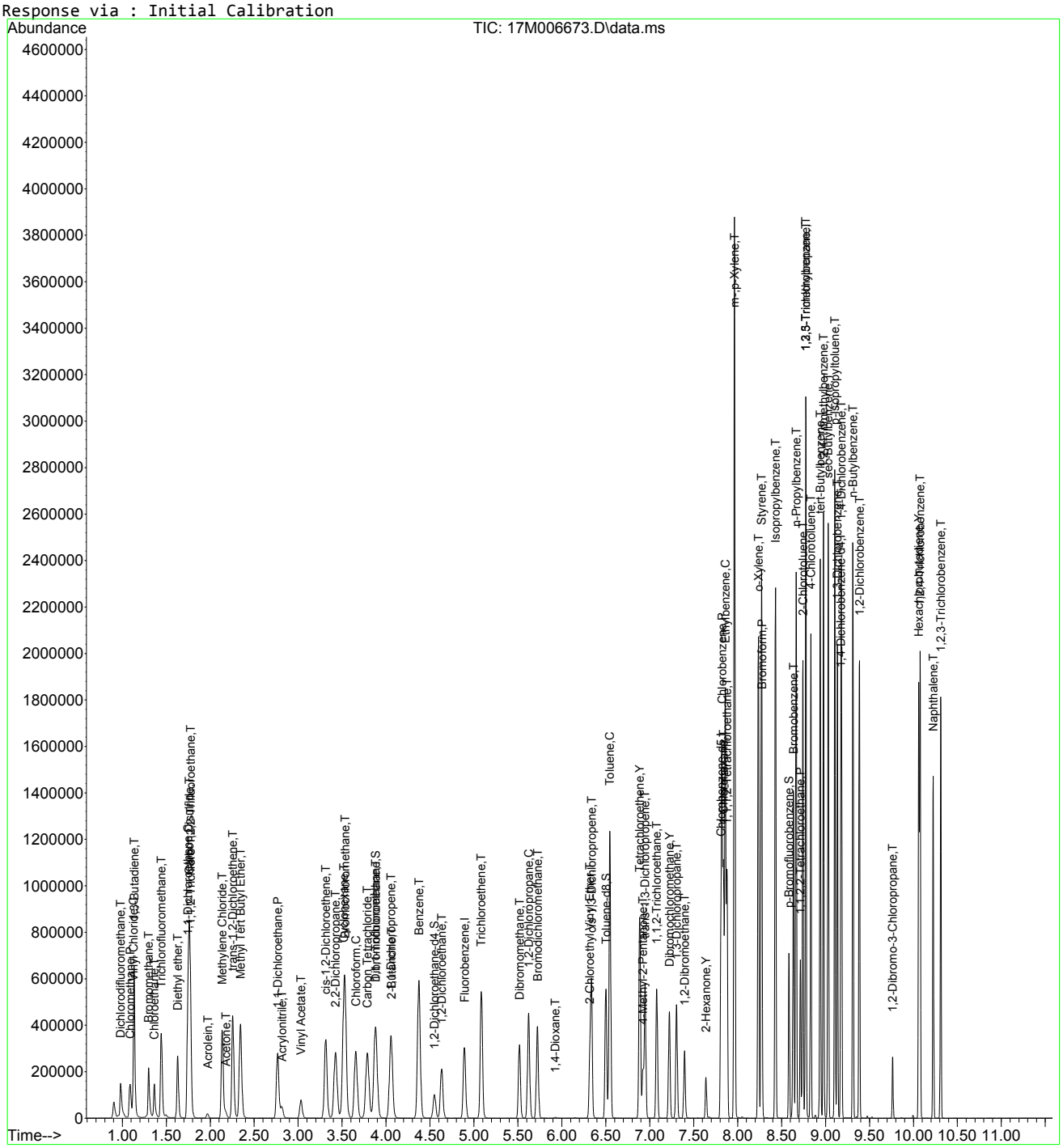
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) 1,2-Dibromoethane	7.397	107	146077	51.7478 ug/L	100
51) 2-Hexanone	7.640	43	72946	49.8183 ug/L	100
52) Chlorobenzene	7.822	112	501265	50.9808 ug/L	100
53) 1-Chlorohexane	7.840	69	44503	55.9269 ug/L	100
54) Ethylbenzene	7.860	106	272641	51.6547 ug/L	100
55) 1,1,1,2-Tetrachloroethane	7.877	131	190940	52.0241 ug/L	100
56) m-,p-Xylene	7.964	106	659270	105.8727 ug/L	100
57) o-Xylene	8.236	106	323814	51.4470 ug/L	100
58) Styrene	8.271	104	534919	52.6299 ug/L	100
59) Bromoform	8.277	173	139448	53.5858 ug/L	100
60) Isopropylbenzene	8.430	105	845876	52.9764 ug/L	100
62) 1,3,5-Trimethylbenzene	8.775	105	731918	52.7285 ug/L	100
64) Bromobenzene	8.636	156	230995	51.0663 ug/L	100
65) n-Propylbenzene	8.665	91	970253	53.5242 ug/L	100
66) 1,1,2,2-Tetrachloroethane	8.714	83	175044	51.6578 ug/L	100
67) 2-Chlorotoluene	8.743	91	574349	51.5903 ug/L	100
68) 1,2,3-Trichloropropane	8.775	110	47576	51.3065 ug/L	100
69) 1,2,4-Trimethylbenzene	8.978	105	728524	53.0253 ug/L	100
70) 4-Chlorotoluene	8.833	91	589971	52.1402 ug/L	100
71) tert-Butylbenzene	8.940	134	138671	51.4894 ug/L	100
72) sec-Butylbenzene	9.030	105	911909	53.8542 ug/L	100
73) p-Isopropyltoluene	9.105	119	779894	54.7472 ug/L	100
74) 1,3-Dichlorobenzene	9.134	146	426373	52.6466 ug/L	100
75) 1,4-Dichlorobenzene	9.180	146	430891	52.6313 ug/L	100
76) n-Butylbenzene	9.310	91	673648	57.7268 ug/L	100
77) 1,2-Dichlorobenzene	9.386	146	417161	52.8816 ug/L	100
78) 1,2-Dibromo-3-Chloropr...	9.762	75	31140	54.9852 ug/L	100
79) Hexachlorobutadiene	10.060	225	183726	53.9475 ug/L	100
80) 1,2,4-Trichlorobenzene	10.075	180	311357	51.2932 ug/L	100
81) Naphthalene	10.225	128	555031	51.4928 ug/L	100
82) 1,2,3-Trichlorobenzene	10.309	180	287439	55.8429 ug/L	100

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006673.D
Acq On : 09 Jul 2014 18:51
Operator : ADC
Sample : WG483481-08 50.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 16:21:01 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



8260-VMS.M Wed Jul 16 16:21:02 2014 Page: 3

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006674.D
Acq On : 09 Jul 2014 19:11
Operator : ADC
Sample : WG483481-09 100.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 16 16:21:04 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.892	96	307237	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.811	117	231588	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.174	152	121160	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.885	111	184690	49.6133 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 198.453%#		
32) 1,2-Dichloroethane-d4	4.551	65	171649	47.7102 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 190.841%#		
44) Toluene-d8	6.502	98	659644	48.3469 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 193.388%#		
63) p-Bromofluorobenzene	8.584	95	257474	48.7754 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 195.102%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.981	85	257099	104.8236 ug/L	100
3) Chloromethane	1.085	50	283650	97.6307 ug/L	99
4) Vinyl Chloride	1.125	62	345755	99.1911 ug/L	100
5) 1,3-Butadiene	1.134	54	300051	103.5049 ug/L	100
6) Bromomethane	1.299	94	210615	103.1136 ug/L	100
7) Chloroethane	1.360	64	147070	71.1865 ug/L	99
8) Trichlorofluoromethane	1.435	101	482938	98.4446 ug/L	100
9) Diethyl ether	1.629	59	240417	102.3426 ug/L	100
10) 1,1-Dichloroethene	1.742	61	453523	99.5292 ug/L	99
11) Carbon Disulfide	1.757	76	1006201	103.5723 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.768	101	309463	97.8190 ug/L	100
13) Acrolein	1.968	56	28937	101.6938 ug/L	97
14) Methylene Chloride	2.136	84	334073	96.6099 ug/L	99
15) Acetone	2.179	43	51364	87.9197 ug/L	95
16) trans-1,2-Dichloroethene	2.255	96	322488	99.2123 ug/L	99
17) Methyl Tert Butyl Ether	2.344	73	828691	97.8703 ug/L	100
18) 1,1-Dichloroethane	2.764	63	559795	98.3768 ug/L	100
19) Acrylonitrile	2.813	53	78147	104.2318 ug/L	100
20) Vinyl Acetate	3.033	86	26442	102.1089 ug/L	96
21) cis-1,2-Dichloroethene	3.314	96	364965	98.7003 ug/L	99
22) 2,2-Dichloropropane	3.424	77	480558	97.5881 ug/L	100
23) Cyclohexane	3.520	56	526494	101.9203 ug/L	100
24) Bromochloromethane	3.534	130	248315	105.1390 ug/L	99
25) Chloroform	3.653	83	589868	97.3999 ug/L	100
26) Carbon Tetrachloride	3.783	117	499226	102.8507 ug/L	100
28) 1,1,1-Trichloroethane	3.876	97	542756	98.9540 ug/L	100
29) 1,1-Dichloropropene	4.055	75	435034	99.4631 ug/L	99
30) 2-Butanone	4.058	43	87449	95.3545 ug/L	100
31) Benzene	4.374	78	1291953	98.3161 ug/L	100
33) 1,2-Dichloroethane	4.632	62	389946	98.5097 ug/L	100
34) Trichloroethene	5.086	130	395642	98.4692 ug/L	100
35) Dibromomethane	5.518	93	202970	102.4472 ug/L	100
36) 1,2-Dichloropropane	5.622	63	343854	98.5729 ug/L	99
37) Bromodichloromethane	5.720	83	466425	99.6344 ug/L	100
38) 1,4-Dioxane	5.926	88	5344	209.3138 ug/L	97
39) 2-Chloroethyl Vinyl Ether	6.320	63	182605	100.8731 ug/L	100
40) cis-1,3-Dichloropropene	6.337	75	548552	101.1245 ug/L	100
41) 4-Methyl-2-Pentanone	6.925	58	88097	98.3541 ug/L	100
42) trans-1,3-Dichloropropene	6.948	75	484896	102.6098 ug/L	100
45) Toluene	6.548	91	1493129	97.2792 ug/L	100
46) Tetrachloroethene	6.887	166	430127	99.2941 ug/L	100
47) 1,1,2-Trichloroethane	7.081	97	285612	97.4270 ug/L	99
48) Dibromochloromethane	7.223	129	393993	101.4010 ug/L	99
49) 1,3-Dichloropropane	7.307	76	449374	96.6809 ug/L	100

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006674.D
Acq On : 09 Jul 2014 19:11
Operator : ADC
Sample : WG483481-09 100.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 16 16:21:04 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

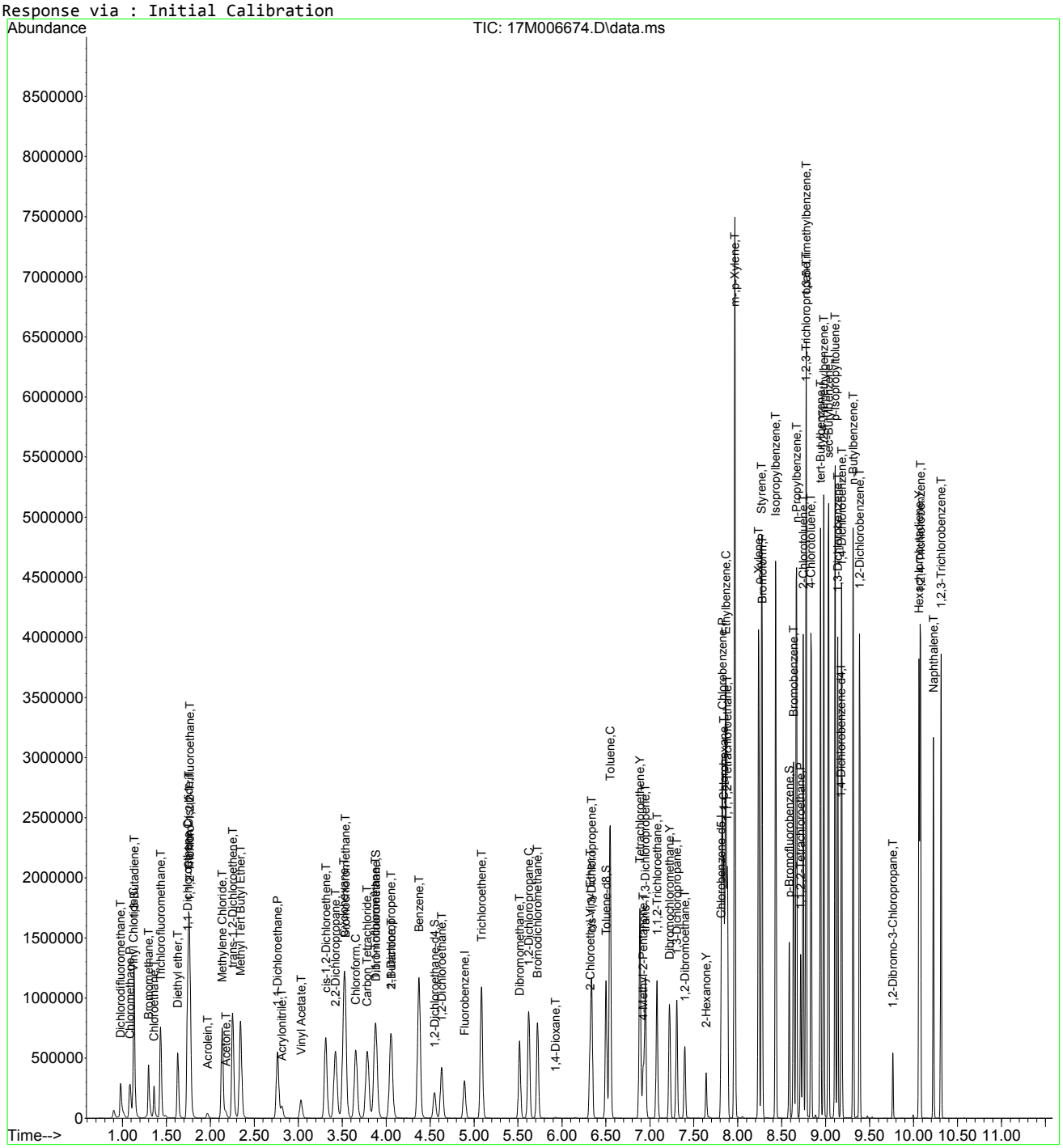
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) 1,2-Dibromoethane	7.397	107	294681	99.2026 ug/L	99
51) 2-Hexanone	7.640	43	149325	96.9126 ug/L	99
52) Chlorobenzene	7.822	112	1010398	97.6545 ug/L	100
53) 1-Chlorohexane	7.840	69	89602	107.0064 ug/L	98
54) Ethylbenzene	7.863	106	547817	98.6312 ug/L	99
55) 1,1,1,2-Tetrachloroethane	7.880	131	383282	99.2399 ug/L	100
56) m-,p-Xylene	7.967	106	1323973	202.0507 ug/L	98
57) o-Xylene	8.236	106	653164	98.6159 ug/L	99
58) Styrene	8.271	104	1088242	101.7491 ug/L	99
59) Bromoform	8.277	173	286116	104.4817 ug/L	100
60) Isopropylbenzene	8.430	105	1681759	100.0921 ug/L	99
62) 1,3,5-Trimethylbenzene	8.778	105	1460651	98.7182 ug/L	100
64) Bromobenzene	8.636	156	472533	98.0013 ug/L	99
65) n-Propylbenzene	8.668	91	1929736	99.8689 ug/L	99
66) 1,1,2,2-Tetrachloroethane	8.714	83	347608	96.2378 ug/L	100
67) 2-Chlorotoluene	8.743	91	1147714	96.7149 ug/L	100
68) 1,2,3-Trichloropropane	8.775	110	96178	97.3033 ug/L	99
69) 1,2,4-Trimethylbenzene	8.978	105	1452434	99.1753 ug/L	99
70) 4-Chlorotoluene	8.833	91	1183910	98.1586 ug/L	100
71) tert-Butylbenzene	8.940	134	277714	96.7380 ug/L	98
72) sec-Butylbenzene	9.033	105	1809476	100.2509 ug/L	99
73) p-Isopropyltoluene	9.108	119	1551150	102.1522 ug/L	99
74) 1,3-Dichlorobenzene	9.137	146	860258	99.6499 ug/L	100
75) 1,4-Dichlorobenzene	9.183	146	872532	99.9828 ug/L	100
76) n-Butylbenzene	9.313	91	1364283	109.6771 ug/L	99
77) 1,2-Dichlorobenzene	9.386	146	833630	99.1384 ug/L	99
78) 1,2-Dibromo-3-Chloropr...	9.762	75	64321	106.5484 ug/L	99
79) Hexachlorobutadiene	10.060	225	376244	103.6424 ug/L	100
80) 1,2,4-Trichlorobenzene	10.078	180	643912	99.2769 ug/L	100
81) Naphthalene	10.225	128	1163861	101.0556 ug/L	100
82) 1,2,3-Trichlorobenzene	10.312	180	593404	108.1534 ug/L	100

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006674.D
Acq On : 09 Jul 2014 19:11
Operator : ADC
Sample : WG483481-09 100.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 16 16:21:04 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



8260-VMS.M Wed Jul 16 16:21:05 2014 Page: 3

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006675.D
Acq On : 09 Jul 2014 19:31
Operator : ADC
Sample : WG483481-10 200.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 16 16:21:07 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.889	96	310248	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.814	117	237635	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.177	152	125699	25.00000 ug/L	# 0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.885	111	375638	99.9283 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 399.713%#		
32) 1,2-Dichloroethane-d4	4.551	65	343845	94.6450 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 378.580%#		
44) Toluene-d8	6.502	98	1358166	97.0103 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 388.041%#		
63) p-Bromofluorobenzene	8.587	95	535454	97.7725 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 391.090%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.978	85	531861	214.7442 ug/L	100
3) Chloromethane	1.085	50	591983	201.7797 ug/L	100
4) Vinyl Chloride	1.125	62	710590	201.8775 ug/L	100
5) 1,3-Butadiene	1.131	54	586872	200.4813 ug/L	99
6) Bromomethane	1.296	94	440346	213.4937 ug/L	100
7) Chloroethane	1.357	64	278788	133.6325 ug/L	99
8) Trichlorofluoromethane	1.427	101	573465	115.7636 ug/L	100
9) Diethyl ether	1.632	59	477736	201.3927 ug/L	100
10) 1,1-Dichloroethene	1.736	61	928168	201.7170 ug/L	99
11) Carbon Disulfide	1.751	76	1991835	203.0378 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.762	101	631097	197.5492 ug/L	100
13) Acrolein	1.971	56	58846	204.7964 ug/L	95
14) Methylene Chloride	2.133	84	687507	196.8892 ug/L	98
15) Acetone	2.182	43	106275	180.1453 ug/L	94
16) trans-1,2-Dichloroethene	2.252	96	664242	202.3684 ug/L	98
17) Methyl Tert Butyl Ether	2.347	73	1686282	197.2209 ug/L	100
18) 1,1-Dichloroethane	2.764	63	1145892	199.4214 ug/L	99
19) Acrylonitrile	2.816	53	157776	208.3978 ug/L	99
20) Vinyl Acetate	3.034	86	54632	208.9204 ug/L	99
21) cis-1,2-Dichloroethene	3.311	96	754917	202.1766 ug/L	99
22) 2,2-Dichloropropane	3.421	77	972275	195.5260 ug/L	99
23) Cyclohexane	3.520	56	1029276	197.3166 ug/L	99
24) Bromochloromethane	3.534	130	512003	214.6832 ug/L	99
25) Chloroform	3.653	83	1201853	196.5258 ug/L	99
26) Carbon Tetrachloride	3.783	117	1022476	208.6064 ug/L	100
28) 1,1,1-Trichloroethane	3.876	97	1108044	200.0553 ug/L	99
29) 1,1-Dichloropropene	4.053	75	888858	201.2499 ug/L	99
30) 2-Butanone	4.067	43	178042	192.2532 ug/L	99
31) Benzene	4.374	78	2645753	199.3846 ug/L	100
33) 1,2-Dichloroethane	4.632	62	797787	199.5842 ug/L	100
34) Trichloroethene	5.083	130	815994	201.1173 ug/L	99
35) Dibromomethane	5.518	93	422864	211.3653 ug/L	100
36) 1,2-Dichloropropane	5.625	63	708019	200.9986 ug/L	99
37) Bromodichloromethane	5.723	83	969083	204.9995 ug/L	99
38) 1,4-Dioxane	5.932	88	10917	423.4473 ug/L	100
39) 2-Chloroethyl Vinyl Ether	6.323	63	374596	204.9229 ug/L	100
40) cis-1,3-Dichloropropene	6.340	75	1138946	207.9247 ug/L	99
41) 4-Methyl-2-Pentanone	6.928	58	181935	201.1463 ug/L	99
42) trans-1,3-Dichloropropene	6.951	75	1005158	210.6391 ug/L	99
45) Toluene	6.551	91	3031933	192.5076 ug/L	99
46) Tetrachloroethene	6.887	166	901229	202.7532 ug/L	100
47) 1,1,2-Trichloroethane	7.081	97	593383	197.2621 ug/L	99
48) Dibromochloromethane	7.226	129	828750	207.8657 ug/L	99
49) 1,3-Dichloropropane	7.307	76	931085	195.2216 ug/L	99

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006675.D
Acq On : 09 Jul 2014 19:31
Operator : ADC
Sample : WG483481-10 200.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 16 16:21:07 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

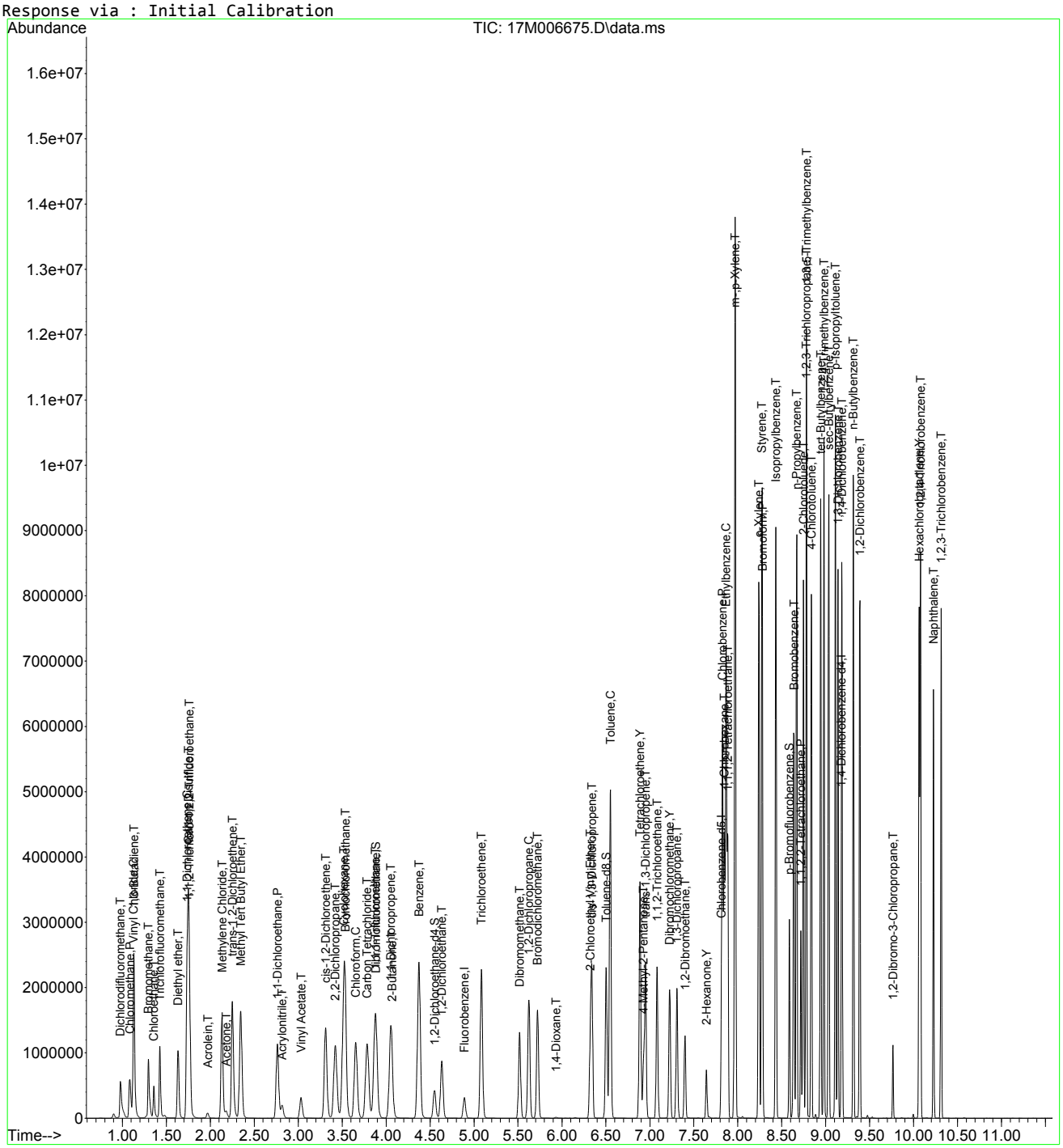
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50)	1,2-Dibromoethane	7.400	107	618408	202.8858 ug/L	99
51)	2-Hexanone	7.643	43	307470	194.4716 ug/L	98
52)	Chlorobenzene	7.825	112	2076383	195.5747 ug/L	99
53)	1-Chlorohexane	7.846	69	180900	210.5408 ug/L	99
54)	Ethylbenzene	7.866	106	1145399	200.9747 ug/L	94
55)	1,1,1,2-Tetrachloroethane	7.886	131	800112	201.8945 ug/L	100
56)	m-,p-Xylene	7.970	106	2639213	392.5195 ug/L	93
57)	o-Xylene	8.239	106	1362733	200.5123 ug/L	96
58)	Styrene	8.274	104	2227819	202.9974 ug/L	99
59)	Bromoform	8.280	173	608947	216.7120 ug/L	99
60)	Isopropylbenzene	8.433	105	3350750	194.3497 ug/L	97
62)	1,3,5-Trimethylbenzene	8.781	105	2880543	187.6518 ug/L	97
64)	Bromobenzene	8.639	156	995883	199.0835 ug/L	98
65)	n-Propylbenzene	8.671	91	3786456	188.8830 ug/L	96
66)	1,1,2,2-Tetrachloroethane	8.717	83	724295	193.2854 ug/L	100
67)	2-Chlorotoluene	8.746	91	2331094	189.3420 ug/L	99
68)	1,2,3-Trichloropropane	8.778	110	196941	192.0504 ug/L	99
69)	1,2,4-Trimethylbenzene	8.981	105	2873793	189.1428 ug/L	97
70)	4-Chlorotoluene	8.836	91	2408825	192.5052 ug/L	99
71)	tert-Butylbenzene	8.943	134	576831	193.6759 ug/L	93
72)	sec-Butylbenzene	9.036	105	3498662	186.8378 ug/L	96
73)	p-Isopropyltoluene	9.111	119	3010275	191.0854 ug/L	96
74)	1,3-Dichlorobenzene	9.140	146	1765962	197.1773 ug/L	99
75)	1,4-Dichlorobenzene	9.183	146	1786600	197.3325 ug/L	99
76)	n-Butylbenzene	9.313	91	2702528	209.4157 ug/L	96
77)	1,2-Dichlorobenzene	9.389	146	1709275	195.9332 ug/L	98
78)	1,2-Dibromo-3-Chloropr...	9.765	75	132952	212.2837 ug/L	100
79)	Hexachlorobutadiene	10.063	225	785601	208.5918 ug/L	99
80)	1,2,4-Trichlorobenzene	10.078	180	1350569	200.4481 ug/L	99
81)	Naphthalene	10.226	128	2411300	201.5587 ug/L	99
82)	1,2,3-Trichlorobenzene	10.312	180	1243609	218.4747 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006675.D
Acq On : 09 Jul 2014 19:31
Operator : ADC
Sample : WG483481-10 200.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 16 16:21:07 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



8260-VMS.M Wed Jul 16 16:21:08 2014 Page: 3

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006676.D
Acq On : 09 Jul 2014 19:50
Operator : ADC
Sample : WG483481-11 300.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 16 16:21:10 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.889	96	309192	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.816	117	233640	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.180	152	119707	25.00000 ug/L	# 0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.885	111	563441	150.4002 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 601.601%#		
32) 1,2-Dichloroethane-d4	4.551	65	510797	141.0795 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 564.318%#		
44) Toluene-d8	6.505	98	2037756	148.0404 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 592.162%#		
63) p-Bromofluorobenzene	8.590	95	797113	152.8364 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 611.346%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.978	85	786387	318.5961 ug/L	99
3) Chloromethane	1.082	50	884342	302.4609 ug/L	99
4) Vinyl Chloride	1.122	62	1051790	299.8324 ug/L	100
5) 1,3-Butadiene	1.131	54	902229	309.2630 ug/L	98
6) Bromomethane	1.296	94	657462	319.8471 ug/L	100
7) Chloroethane	1.357	64	373348	179.5696 ug/L	99
8) Trichlorofluoromethane	1.424	101	801867	162.4232 ug/L	100
9) Diethyl ether	1.635	59	727403	307.6887 ug/L	99
10) 1,1-Dichloroethene	1.730	61	1370743	298.9184 ug/L	97
11) Carbon Disulfide	1.745	76	3061948	313.1859 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.757	101	938552	294.7937 ug/L	100
13) Acrolein	1.971	56	87721	306.3301 ug/L	94
14) Methylene Chloride	2.130	84	1025003	294.5443 ug/L	98
15) Acetone	2.188	43	156835	266.7568 ug/L	94
16) trans-1,2-Dichloroethene	2.249	96	997537	304.9482 ug/L	98
17) Methyl Tert Butyl Ether	2.350	73	2476680	290.6521 ug/L	100
18) 1,1-Dichloroethane	2.761	63	1703175	297.4186 ug/L	99
19) Acrylonitrile	2.822	53	236462	313.3967 ug/L	100
20) Vinyl Acetate	3.033	86	71510	274.3982 ug/L	96
21) cis-1,2-Dichloroethene	3.311	96	1133046	304.4809 ug/L	98
22) 2,2-Dichloropropane	3.424	77	1442152	291.0096 ug/L	98
23) Cyclohexane	3.517	56	1585016	304.8920 ug/L	99
24) Bromochloromethane	3.534	130	762620	320.8592 ug/L	99
25) Chloroform	3.656	83	1789205	293.5683 ug/L	99
26) Carbon Tetrachloride	3.783	117	1527465	312.6990 ug/L	100
28) 1,1,1-Trichloroethane	3.876	97	1654588	299.7531 ug/L	99
29) 1,1-Dichloropropene	4.055	75	1328703	301.8645 ug/L	98
30) 2-Butanone	4.070	43	260234	281.9654 ug/L	98
31) Benzene	4.374	78	3924602	296.7691 ug/L	100
33) 1,2-Dichloroethane	4.634	62	1178604	295.8611 ug/L	100
34) Trichloroethene	5.086	130	1250730	309.3190 ug/L	98
35) Dibromomethane	5.520	93	631538	316.7475 ug/L	100
36) 1,2-Dichloropropane	5.625	63	1060301	302.0355 ug/L	99
37) Bromodichloromethane	5.723	83	1449405	307.6539 ug/L	99
38) 1,4-Dioxane	5.940	88	16495	641.9912 ug/L	98
39) 2-Chloroethyl Vinyl Ether	6.325	63	550624	302.2478 ug/L	100
40) cis-1,3-Dichloropropene	6.343	75	1702116	311.7977 ug/L	99
41) 4-Methyl-2-Pentanone	6.933	58	262836	291.5824 ug/L	100
42) trans-1,3-Dichloropropene	6.954	75	1488273	312.9449 ug/L	99
45) Toluene	6.554	91	4423617	285.6729 ug/L	98
46) Tetrachloroethene	6.890	166	1360910	311.4047 ug/L	100
47) 1,1,2-Trichloroethane	7.084	97	875519	296.0311 ug/L	99
48) Dibromochloromethane	7.226	129	1225494	312.6322 ug/L	99
49) 1,3-Dichloropropane	7.310	76	1369589	292.0733 ug/L	98

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006676.D
Acq On : 09 Jul 2014 19:50
Operator : ADC
Sample : WG483481-11 300.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 16 16:21:10 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

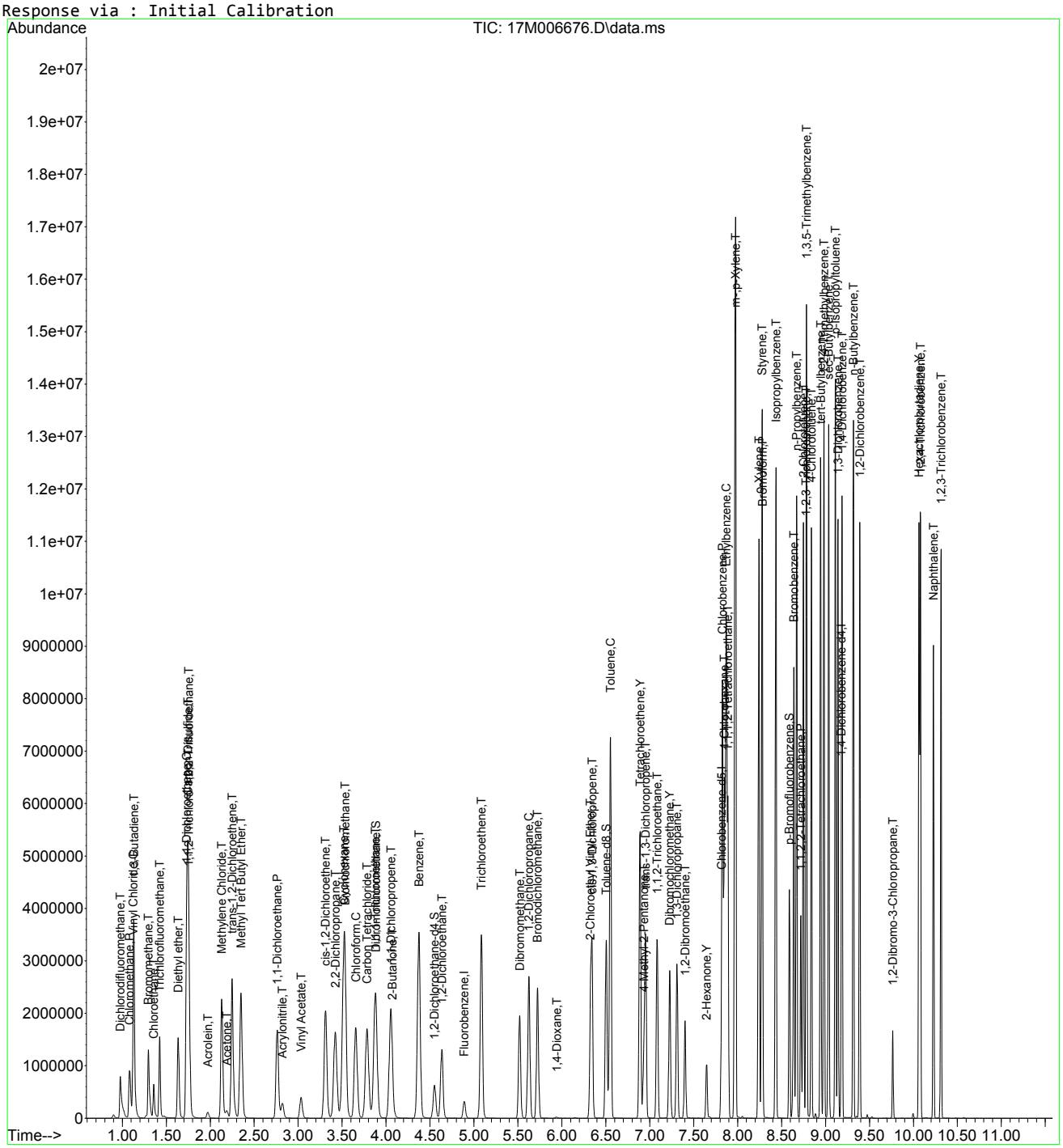
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) 1,2-Dibromoethane	7.402	107	908859	303.2748 ug/L	100
51) 2-Hexanone	7.646	43	441695	284.1445 ug/L	97
52) Chlorobenzene	7.828	112	3022259	289.5344 ug/L	98
53) 1-Chlorohexane	7.848	69	278550	329.7343 ug/L	84
54) Ethylbenzene	7.871	106	1680831	299.9659 ug/L	92
55) 1,1,1,2-Tetrachloroethane	7.889	131	1164451	298.8534 ug/L	99
56) m-,p-Xylene	7.976	106	3658472	553.4135 ug/L	89
57) o-Xylene	8.242	106	1969605	294.7628 ug/L	94
58) Styrene	8.277	104	3130828	290.1570 ug/L	98
59) Bromoform	8.283	173	881588	319.1041 ug/L	99
60) Isopropylbenzene	8.436	105	4602546	271.5208 ug/L	94
62) 1,3,5-Trimethylbenzene	8.784	105	3962181	271.0347 ug/L	96
64) Bromobenzene	8.639	156	1455435	305.5147 ug/L	98
65) n-Propylbenzene	8.671	91	5151866	269.8590 ug/L	93
66) 1,1,2,2-Tetrachloroethane	8.720	83	1021014	286.1063 ug/L	99
67) 2-Chlorotoluene	8.749	91	3288247	280.4555 ug/L	97
68) 1,2,3-Trichloropropane	8.778	110	276668	283.3024 ug/L	100
69) 1,2,4-Trimethylbenzene	8.983	105	3962188	273.8304 ug/L	95
70) 4-Chlorotoluene	8.839	91	3399268	285.2561 ug/L	97
71) tert-Butylbenzene	8.946	134	834283	294.1390 ug/L	87
72) sec-Butylbenzene	9.035	105	4740543	265.8295 ug/L	93
73) p-Isopropyltoluene	9.114	119	4097613	273.1270 ug/L	94
74) 1,3-Dichlorobenzene	9.143	146	2497015	292.7582 ug/L	96
75) 1,4-Dichlorobenzene	9.186	146	2532768	293.7508 ug/L	98
76) n-Butylbenzene	9.316	91	3701517	301.1834 ug/L	93
77) 1,2-Dichlorobenzene	9.389	146	2425065	291.8984 ug/L	97
78) 1,2-Dibromo-3-Chloropr...	9.765	75	191530	321.1226 ug/L	99
79) Hexachlorobutadiene	10.063	225	1139309	317.6502 ug/L	99
80) 1,2,4-Trichlorobenzene	10.081	180	1927991	300.3436 ug/L	98
81) Naphthalene	10.228	128	3386926	297.1632 ug/L	97
82) 1,2,3-Trichlorobenzene	10.315	180	1794822	331.0937 ug/L	98

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

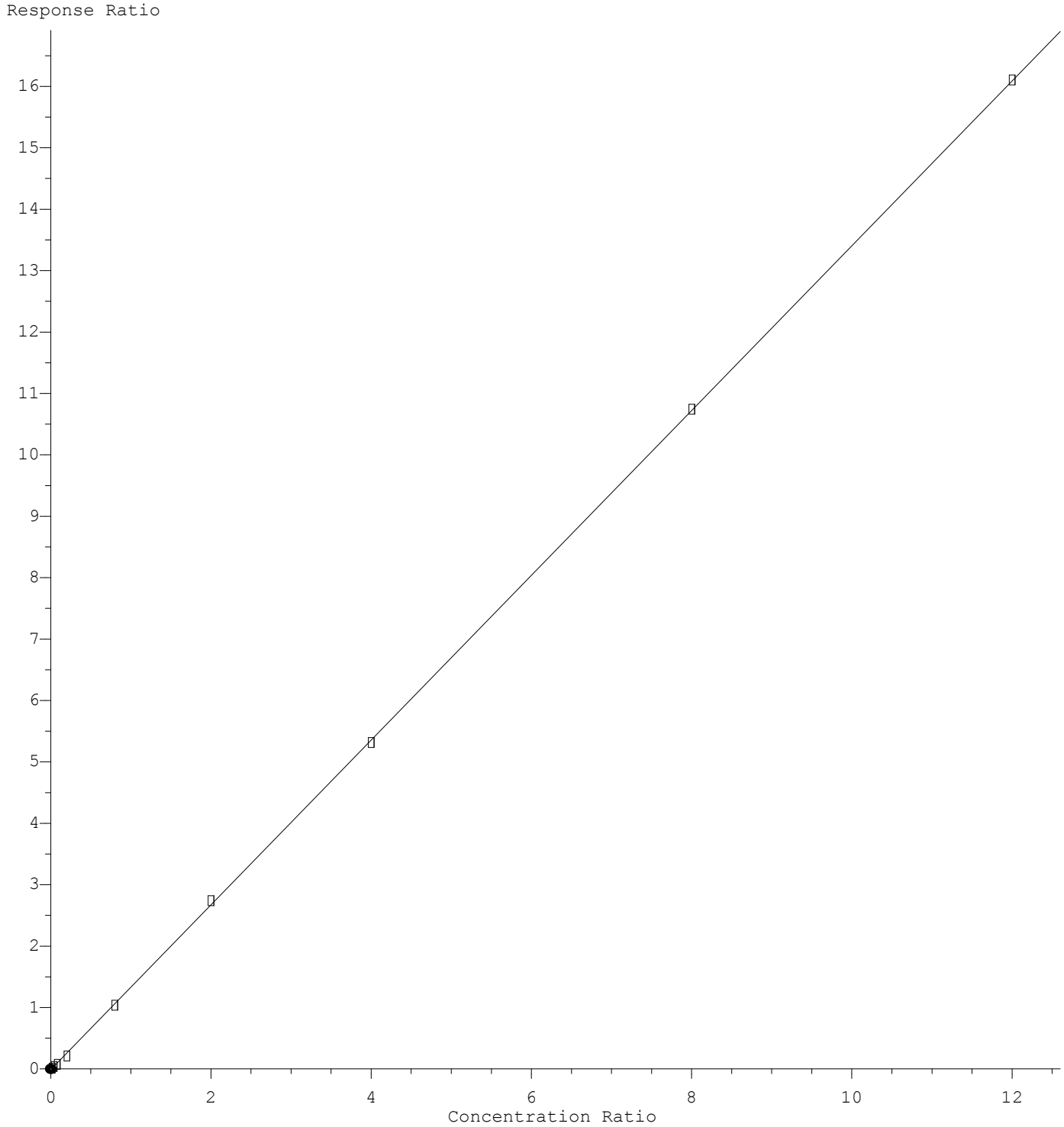
Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006676.D
Acq On : 09 Jul 2014 19:50
Operator : ADC
Sample : WG483481-11 300.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 16 16:21:10 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

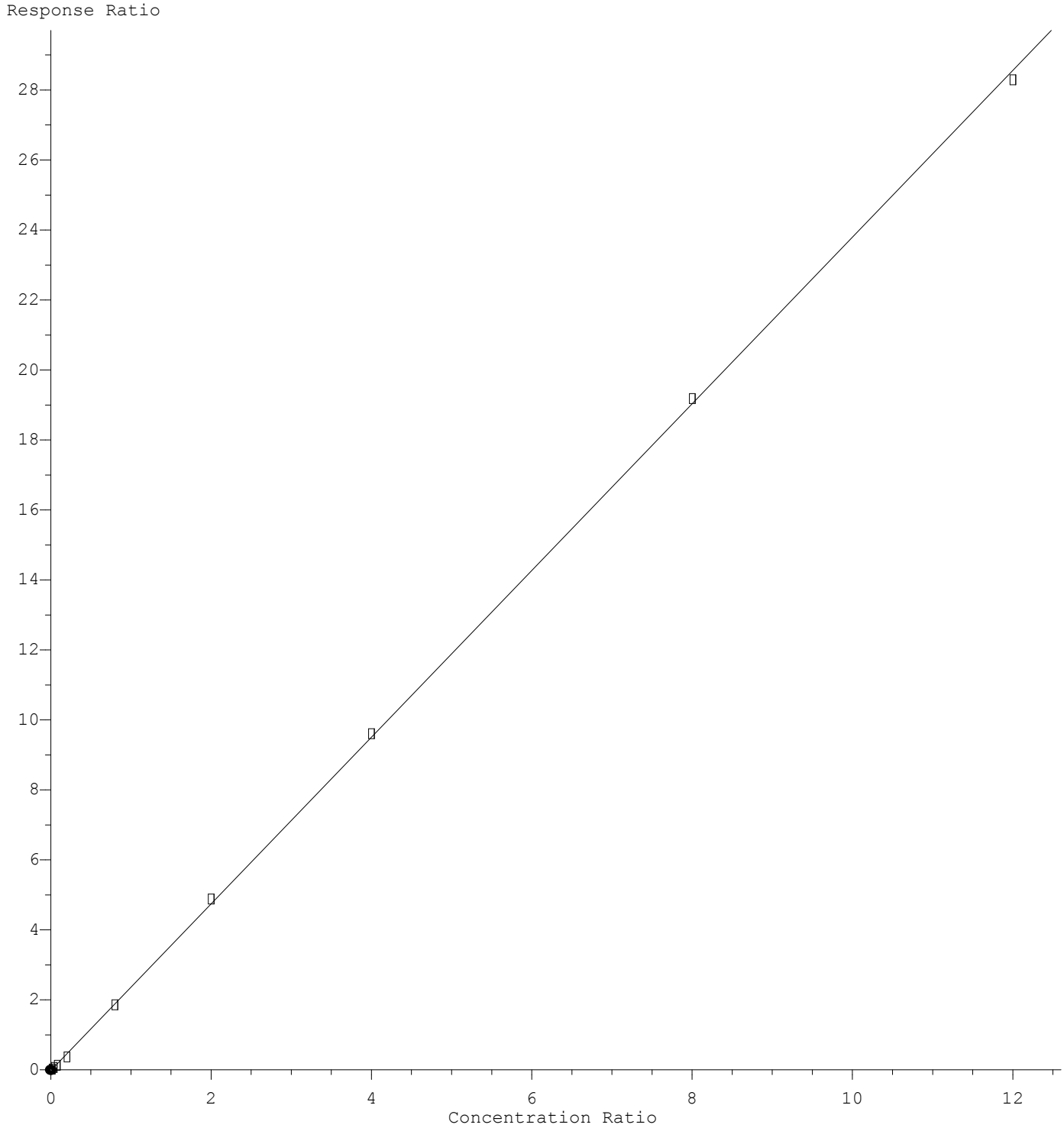


1,2,4-Trichlorobenzene



Response = 1.342e+000 * Amt - 1.368e-002
Coef of Det (r^2) = 0.999603 Curve Fit: wlr(1/a)
Method Name: D:\MassHunter\GCMS\1\methods\8260-VMS.M
Calibration Table Last Updated: Wed Jul 16 16:17:06 2014

Naphthalene



Response = 2.382e+000 * Amt - 2.381e-002
Coef of Det (r^2) = 0.999508 Curve Fit: wlr(1/a)
Method Name: D:\MassHunter\GCMS\1\methods\8260-VMS.M
Calibration Table Last Updated: Wed Jul 16 16:17:06 2014

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006678.D
Acq On : 09 Jul 2014 20:30
Operator : ADC
Sample : WG483481-12 50ug/L ALT SRC 8260
Misc : 1,1 STD65143
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 16 16:21:16 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.886	96	293681	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.808	117	223217	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.174	152	117799	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.882	111	91039	25.5847 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 102.339%		
32) 1,2-Dichloroethane-d4	4.545	65	80347	23.3635 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 93.454%		
44) Toluene-d8	6.499	98	339465	25.8133 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.253%		
63) p-Bromofluorobenzene	8.584	95	125801	24.5114 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.046%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.975	85	195724	83.4835 ug/L	100
3) Chloromethane	1.082	50	173936	62.6312 ug/L	100
4) Vinyl Chloride	1.123	62	190658	57.2212 ug/L	100
5) 1,3-Butadiene	1.131	54	104197	37.6027 ug/L	99
6) Bromomethane	1.296	94	107046	54.8270 ug/L	100
7) Chloroethane	1.357	64	65325	33.0789 ug/L	100
8) Trichlorofluoromethane	1.424	101	132012	28.1521 ug/L	100
9) Diethyl ether	1.635	59	588491	262.0769 ug/L	100
10) 1,1-Dichloroethene	1.722	61	207661	47.6764 ug/L	99
11) Carbon Disulfide	1.736	76	375789	40.4670 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.748	101	151886	50.2262 ug/L	97
13) Acrolein	1.971	56	25608	94.1487 ug/L	97
14) Methylene Chloride	2.127	84	163527	49.4729 ug/L	99
15) Acetone	2.191	43	29642	53.0802 ug/L	95
16) trans-1,2-Dichloroethene	2.243	96	160207	51.5621 ug/L	98
17) Methyl Tert Butyl Ether	2.353	73	433576	53.5699 ug/L	100
18) 1,1-Dichloroethane	2.758	63	264541	48.6356 ug/L	100
19) Acrylonitrile	2.822	53	19523	27.2416 ug/L	100
20) Vinyl Acetate	3.033	86	24985	100.9360 ug/L	100
21) cis-1,2-Dichloroethene	3.306	96	178663	50.5475 ug/L	99
22) 2,2-Dichloropropane	3.419	77	214494	45.5684 ug/L	100
23) Cyclohexane	3.508	56	254216	51.4835 ug/L #	81
24) Bromochloromethane	3.529	130	116940	51.7990 ug/L	99
25) Chloroform	3.653	83	284930	49.2198 ug/L	100
26) Carbon Tetrachloride	3.778	117	235340	50.7228 ug/L	100
28) 1,1,1-Trichloroethane	3.870	97	259518	49.4987 ug/L	100
29) 1,1-Dichloropropene	4.044	75	208553	49.8830 ug/L	99
30) 2-Butanone	4.073	43	47516	54.2031 ug/L	97
31) Benzene	4.365	78	636506	50.6732 ug/L	100
33) 1,2-Dichloroethane	4.629	62	188101	49.7122 ug/L	100
34) Trichloroethene	5.080	130	196563	51.1796 ug/L	99
35) Dibromomethane	5.515	93	96865	51.1485 ug/L	100
36) 1,2-Dichloropropane	5.619	63	166846	50.0377 ug/L	99
37) Bromodichloromethane	5.720	83	220307	49.2327 ug/L	99
38) 1,4-Dioxane	5.937	88	13973	572.5571 ug/L	99
39) 2-Chloroethyl Vinyl Ether	6.317	63	93620	54.1040 ug/L	99
40) cis-1,3-Dichloropropene	6.334	75	270722	52.2107 ug/L	100
41) 4-Methyl-2-Pentanone	6.925	58	46909	54.7879 ug/L	98
42) trans-1,3-Dichloropropene	6.948	75	217672	48.1882 ug/L	100
45) Toluene	6.545	91	733811	49.6016 ug/L	100
46) Tetrachloroethene	6.884	166	204880	49.0699 ug/L	100
47) 1,1,2-Trichloroethane	7.078	97	137728	48.7432 ug/L	99
48) Dibromochloromethane	7.223	129	188560	50.3491 ug/L	99
49) 1,3-Dichloropropane	7.304	76	216377	48.2984 ug/L	100

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006678.D
Acq On : 09 Jul 2014 20:30
Operator : ADC
Sample : WG483481-12 50ug/L ALT SRC 8260
Misc : 1,1 STD65143
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 16 16:21:16 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

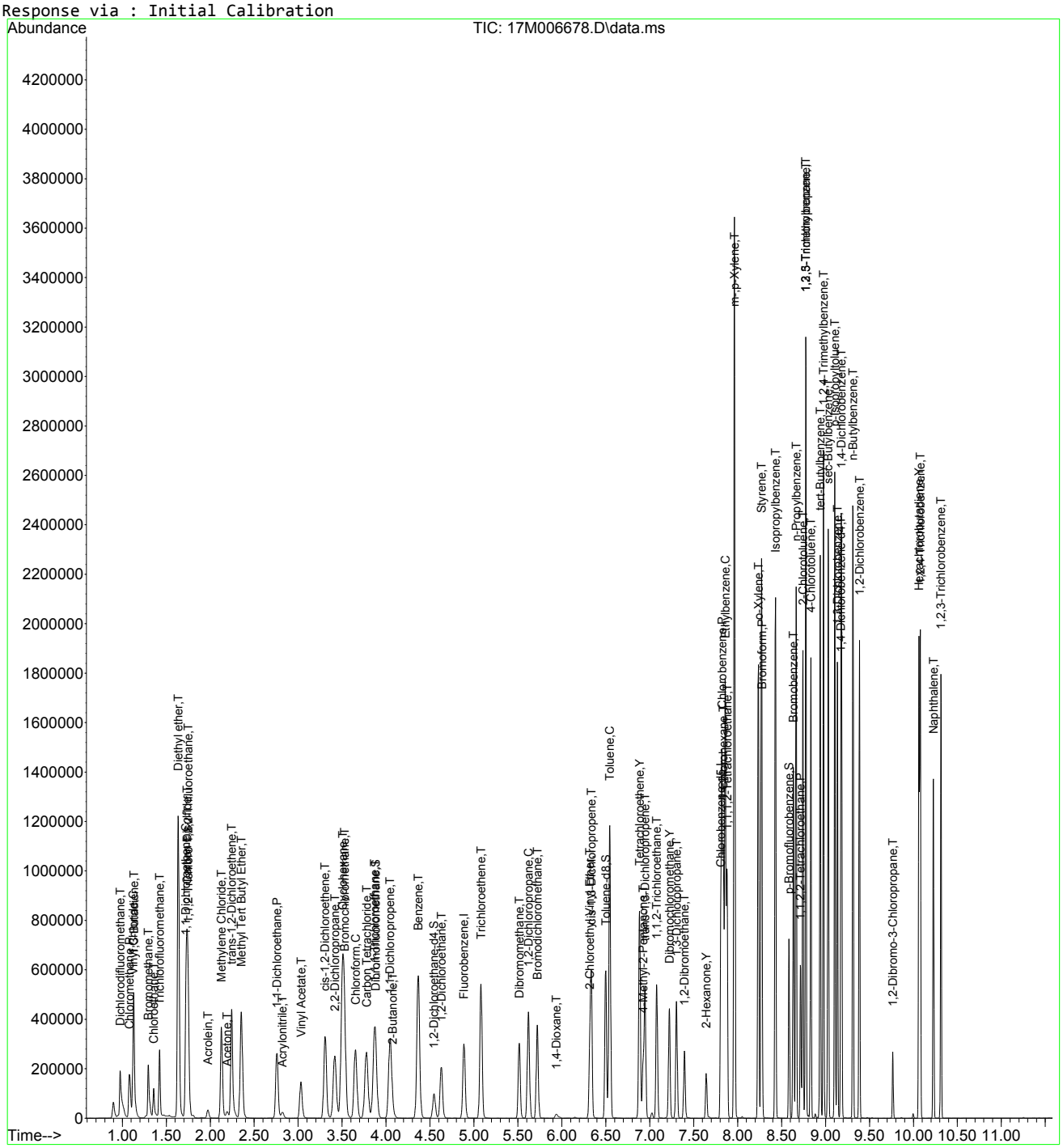
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) 1,2-Dibromoethane	7.394	107	138860	48.4995 ug/L	100
51) 2-Hexanone	7.643	43	77964	52.4966 ug/L	99
52) Chlorobenzene	7.822	112	465166	46.6441 ug/L	100
53) 1-Chlorohexane	7.837	69	43743	54.1988 ug/L	99
54) Ethylbenzene	7.860	106	264278	49.3661 ug/L	97
55) 1,1,1,2-Tetrachloroethane	7.880	131	183594	49.3191 ug/L	100
56) m-,p-Xylene	7.964	106	627411	99.3395 ug/L	100
57) o-Xylene	8.236	106	296549	46.4526 ug/L	100
58) Styrene	8.271	104	531595	51.5673 ug/L	99
59) Bromoform	8.277	173	136825	51.8385 ug/L	100
60) Isopropylbenzene	8.430	105	775063	47.8588 ug/L	100
62) 1,3,5-Trimethylbenzene	8.775	105	749073	52.0706 ug/L	100
64) Bromobenzene	8.633	156	231778	49.4412 ug/L	99
65) n-Propylbenzene	8.665	91	881415	46.9170 ug/L	100
66) 1,1,2,2-Tetrachloroethane	8.714	83	162556	46.2889 ug/L	100
67) 2-Chlorotoluene	8.743	91	539144	46.7285 ug/L	100
68) 1,2,3-Trichloropropane	8.775	110	45907	47.7692 ug/L	99
69) 1,2,4-Trimethylbenzene	8.978	105	745494	52.3563 ug/L	100
70) 4-Chlorotoluene	8.833	91	541553	46.1815 ug/L	100
71) tert-Butylbenzene	8.940	134	129760	46.4898 ug/L	100
72) sec-Butylbenzene	9.030	105	848978	48.3782 ug/L	100
73) p-Isopropyltoluene	9.105	119	726289	49.1950 ug/L	100
74) 1,3-Dichlorobenzene	9.137	146	401934	47.8873 ug/L	99
75) 1,4-Dichlorobenzene	9.180	146	438447	51.6748 ug/L	99
76) n-Butylbenzene	9.311	91	689293	56.9945 ug/L	100
77) 1,2-Dichlorobenzene	9.386	146	396901	48.5477 ug/L	100
78) 1,2-Dibromo-3-Chloropr...	9.765	75	30528	52.0128 ug/L	99
79) Hexachlorobutadiene	10.063	225	188303	53.3510 ug/L	100
80) 1,2,4-Trichlorobenzene	10.078	180	313594	49.8559 ug/L	100
81) Naphthalene	10.228	128	539986	48.3542 ug/L	100
82) 1,2,3-Trichlorobenzene	10.312	180	285695	53.5562 ug/L	100

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006678.D
Acq On : 09 Jul 2014 20:30
Operator : ADC
Sample : WG483481-12 50ug/L ALT SRC 8260
Misc : 1,1 STD65143
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 16 16:21:16 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



8260-VMS.M Wed Jul 16 16:21:17 2014 Page: 3

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006678.D
Acq On : 09 Jul 2014 20:30
Operator : ADC
Sample : WG483481-12 50ug/L ALT SRC 8260
Misc : 1,1 STD65143
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 16 16:21:16 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	99	0.000
2	T	Dichlorodifluoromethane	50.000	83.483	-67.0#	151	0.000
3	P	Chloromethane	50.000	62.631	-25.3#	122	0.000
4	C	Vinyl Chloride	50.000	57.221	-14.4#	109	0.000
5	T	1,3-Butadiene	50.000	37.603	24.8	69	0.000
6	T	Bromomethane	50.000	54.827	-9.7	105	0.000
7	T	Chloroethane	50.000	33.079	33.8#	70	0.000
8	T	Trichlorofluoromethane	50.000	28.152	43.7#	53	-0.020
9	T	Diethyl ether	50.000	262.077	-424.2#	491	0.000
10	C	1,1-Dichloroethene	50.000	47.676	4.6#	90	-0.023
11	T	Carbon Disulfide	50.000	40.467	19.1	76	-0.026
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	50.226	-0.5	97	-0.026
13	T	Acrolein	50.000	94.149	-88.3#	181	0.000
14	T	Methylene Chloride	50.000	49.473	1.1	97	0.000
15	T	Acetone	50.000	53.080	-6.2	107	0.015
16	T	trans-1,2-Dichloroethene	50.000	51.562	-3.1	99	-0.012
17	T	Methyl Tert Butyl Ether	50.000	53.570	-7.1	104	0.000
18	P	1,1-Dichloroethane	50.000	48.636	2.7	93	0.000
19	T	Acrylonitrile	50.000	27.242	45.5#	51	0.000
20	T	Vinyl Acetate	50.000	100.936	-101.9#	186	0.000
21	T	cis-1,2-Dichloroethene	50.000	50.547	-1.1	98	0.000
22	T	2,2-Dichloropropane	50.000	45.568	8.9	88	0.000
23	T	Cyclohexane	50.000	51.483	-3.0	97	-0.012
24	T	Bromochloromethane	50.000	51.799	-3.6	94	0.000
25	C	Chloroform	50.000	49.220	1.6#	95	0.000
26	T	Carbon Tetrachloride	50.000	50.723	-1.4	94	0.000
27	S	Dibromofluoromethane	25.000	25.585	-2.3	101	0.000
28	T	1,1,1-Trichloroethane	50.000	49.499	1.0	95	0.000
29	T	1,1-Dichloropropene	50.000	49.883	0.2	95	-0.011
30	T	2-Butanone	50.000	54.203	-8.4	111	0.000
31	T	Benzene	50.000	50.673	-1.3	98	0.000
32	S	1,2-Dichloroethane-d4	25.000	23.363	6.5	96	0.000
33	T	1,2-Dichloroethane	50.000	49.712	0.6	95	0.000
34	T	Trichloroethene	50.000	51.180	-2.4	100	0.000
35	T	Dibromomethane	50.000	51.149	-2.3	96	0.000
36	C	1,2-Dichloropropane	50.000	50.038	-0.1#	97	0.000
37	T	Bromodichloromethane	50.000	49.233	1.5	94	0.000
38	T	1,4-Dioxane	100.000	572.557	-472.6#	563	0.011
39	T	2-Chloroethyl Vinyl Ether	50.000	54.104	-8.2	105	0.000
40	T	cis-1,3-Dichloropropene	50.000	52.211	-4.4	99	0.000
41	T	4-Methyl-2-Pentanone	50.000	54.788	-9.6	109	0.000
42	T	trans-1,3-Dichloropropene	50.000	48.188	3.6	91	0.000
43	I	Chlorobenzene-d5	25.000	25.000	0.0	101	0.000
44	S	Toluene-d8	25.000	25.813	-3.3	105	0.000
45	C	Toluene	50.000	49.602	0.8#	98	0.000
46	Y	Tetrachloroethene	50.000	49.070	1.9	96	0.000
47	T	1,1,2-Trichloroethane	50.000	48.743	2.5	97	0.000
48	Y	Dibromochloromethane	50.000	50.349	-0.7	97	0.000
49	T	1,3-Dichloropropane	50.000	48.298	3.4	96	0.000
50	T	1,2-Dibromoethane	50.000	48.499	3.0	95	0.000
51	Y	2-Hexanone	50.000	52.497	-5.0	107	0.000
52	P	Chlorobenzene	50.000	46.644	6.7	93	0.000
53	T	1-Chlorohexane	50.000	54.199	-8.4	98	0.000
54	C	Ethylbenzene	50.000	49.366	1.3#	97	0.000
55	T	1,1,1,2-Tetrachloroethane	50.000	49.319	1.4	96	0.000

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006678.D
Acq On : 09 Jul 2014 20:30
Operator : ADC
Sample : WG483481-12 50ug/L ALT SRC 8260
Misc : 1,1 STD65143
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 16 16:21:16 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
56	T	m-,p-Xylene	100.000	99.340	0.7	95	0.000
57	T	o-Xylene	50.000	46.453	7.1	92	0.000
58	T	Styrene	50.000	51.567	-3.1	99	0.000
59	P	Bromoform	50.000	51.838	-3.7	98	0.000
60	T	Isopropylbenzene	50.000	47.859	4.3	92	0.000
61	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	104	0.000
62	T	1,3,5-Trimethylbenzene	50.000	52.071	-4.1	102	0.000
63	S	p-Bromofluorobenzene	25.000	24.511	2.0	101	0.000
64	T	Bromobenzene	50.000	49.441	1.1	100	0.000
65	T	n-Propylbenzene	50.000	46.917	6.2	91	0.000
66	P	1,1,2,2-Tetrachloroethane	50.000	46.289	7.4	93	0.000
67	T	2-Chlorotoluene	50.000	46.729	6.5	94	0.000
68	T	1,2,3-Trichloropropane	50.000	47.769	4.5	96	0.000
69	T	1,2,4-Trimethylbenzene	50.000	52.356	-4.7	102	0.000
70	T	4-Chlorotoluene	50.000	46.182	7.6	92	0.000
71	T	tert-Butylbenzene	50.000	46.490	7.0	94	0.000
72	T	sec-Butylbenzene	50.000	48.378	3.2	93	0.000
73	T	p-Isopropyltoluene	50.000	49.195	1.6	93	0.000
74	T	1,3-Dichlorobenzene	50.000	47.887	4.2	94	0.000
75	T	1,4-Dichlorobenzene	50.000	51.675	-3.3	102	0.000
76	T	n-Butylbenzene	50.000	56.995	-14.0	102	0.000
77	T	1,2-Dichlorobenzene	50.000	48.548	2.9	95	0.000
78	T	1,2-Dibromo-3-Chloropropane	50.000	52.013	-4.0	98	0.000
79	Y	Hexachlorobutadiene	50.000	53.351	-6.7	102	0.000
80	T	1,2,4-Trichlorobenzene	50.000	49.856	0.3	101	0.000
81	T	Naphthalene	50.000	48.354	3.3	97	0.000
82	T	1,2,3-Trichlorobenzene	50.000	53.556	-7.1	99	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957895.D Vial: 3
Acq On : 19 Aug 2013 16:23 Operator: adc
Sample : WG441888-01 5.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11:37 2013 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.96	96	643130	25.00 ug/L	0.00
11) Chlorobenzene-d5	14.85	117	439679	25.00 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	17.88	152	231000	25.00 ug/L	0.00

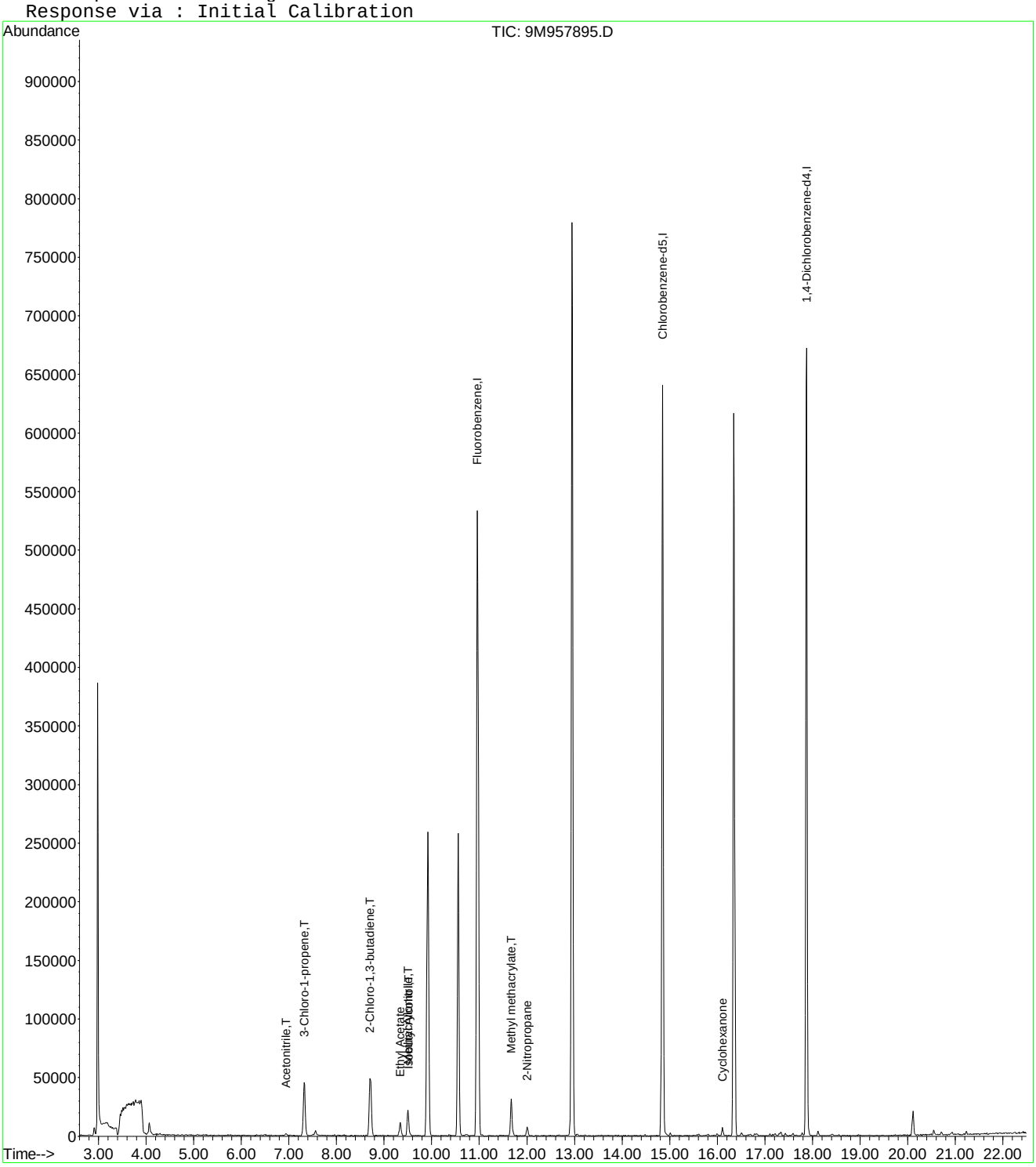
Target Compounds					Qvalue
2) Acetonitrile	6.94	41	2569	4.6165 ug/L #	16
3) 3-Chloro-1-propene	7.32	41	43441	4.7909 ug/L	90
4) 2-Chloro-1,3-butadiene	8.71	53	43442	4.4636 ug/L	98
5) Ethyl Acetate	9.34	43	19334	4.4239 ug/L	96
6) Methacrylonitrile	9.50	67	9285	4.2205 ug/L	88
7) Isobutyl Alcohol	9.51	43	1864	4.9961 ug/L #	84
9) Methyl methacrylate	11.67	41	21094	4.5700 ug/L	95
10) 2-Nitropropane	12.01	43	6118	4.1497 ug/L	83
12) Cyclohexanone	16.11	55	3867	6.1515 ug/L	83

(#) = qualifier out of range (m) = manual integration
9M957895.D A9FOOWT.M Tue Aug 20 15:11:38 2013 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957895.D Vial: 3
Acq On : 19 Aug 2013 16:23 Operator: adc
Sample : WG441888-01 5.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11 2013 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration



9M957895.D A9FOOWT.M Tue Aug 20 15:11:38 2013 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957896.D Vial: 4
Acq On : 19 Aug 2013 16:53 Operator: adc
Sample : WG441888-02 20.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11:39 2013 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.96	96	597162	25.00 ug/L	0.00
11) Chlorobenzene-d5	14.85	117	410709	25.00 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	17.88	152	204391	25.00 ug/L	0.00

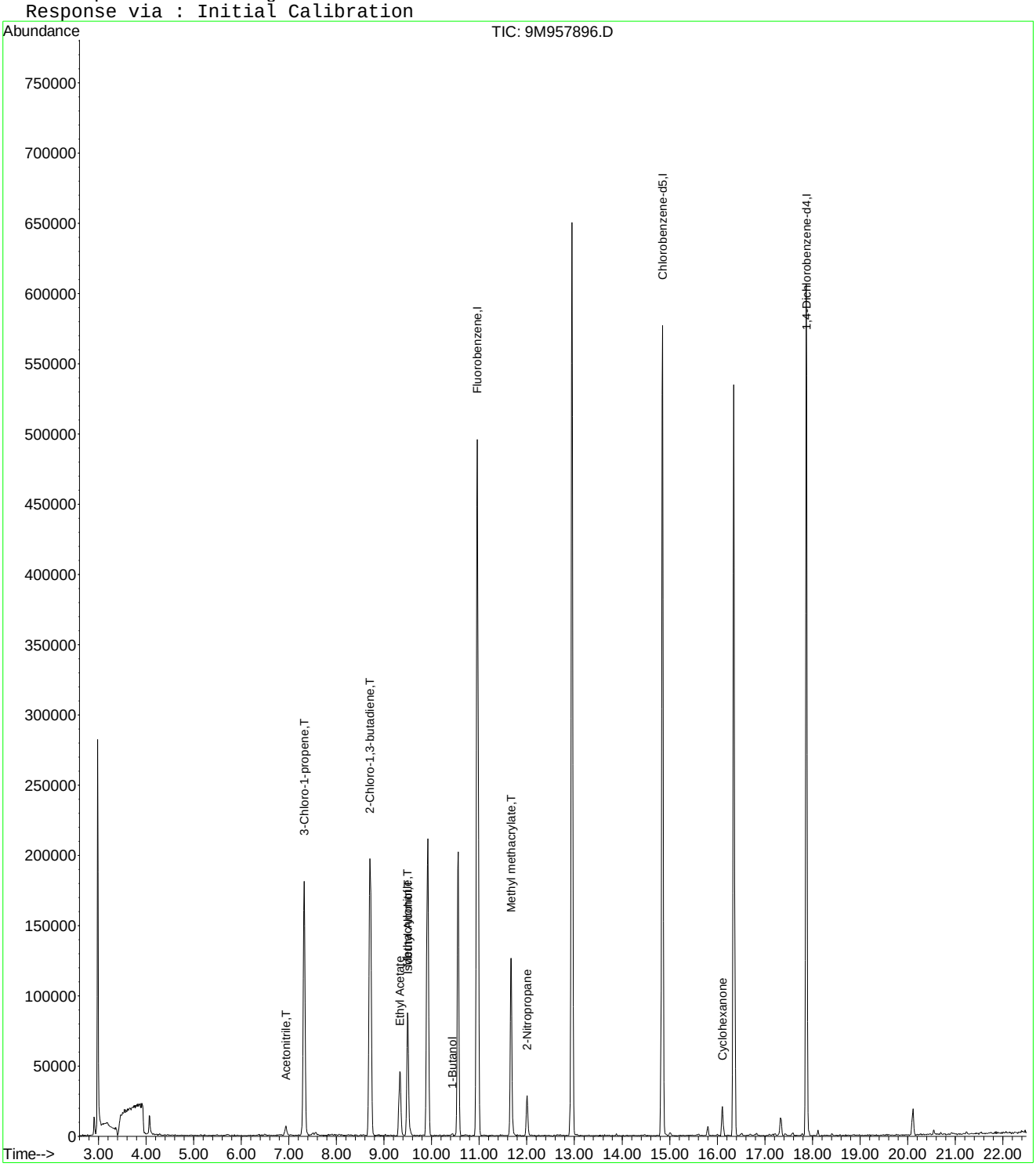
Target Compounds					Qvalue
2) Acetonitrile	6.94	41	10346	20.0230 ug/L #	94
3) 3-Chloro-1-propene	7.32	41	165346	19.6389 ug/L	99
4) 2-Chloro-1,3-butadiene	8.71	53	173321	19.1794 ug/L	98
5) Ethyl Acetate	9.33	43	80571	19.8547 ug/L	98
6) Methacrylonitrile	9.49	67	39572	19.3720 ug/L	100
7) Isobutyl Alcohol	9.50	43	7225	20.8558 ug/L #	84
8) 1-Butanol	10.43	56	1470	17.5760 ug/L #	28
9) Methyl methacrylate	11.67	41	82730	19.3029 ug/L	99
10) 2-Nitropropane	12.01	43	24248	17.7129 ug/L	96
12) Cyclohexanone	16.11	55	10457	17.8080 ug/L	93

(#) = qualifier out of range (m) = manual integration
9M957896.D A9FOOWT.M Tue Aug 20 15:11:40 2013 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957896.D Vial: 4
Acq On : 19 Aug 2013 16:53 Operator: adc
Sample : WG441888-02 20.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11 2013 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957897.D Vial: 5
Acq On : 19 Aug 2013 17:22 Operator: adc
Sample : WG441888-03 50.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11:40 2013 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.96	96	543956	25.00 ug/L	0.00
11) Chlorobenzene-d5	14.85	117	378286	25.00 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	17.87	152	186935	25.00 ug/L	0.00

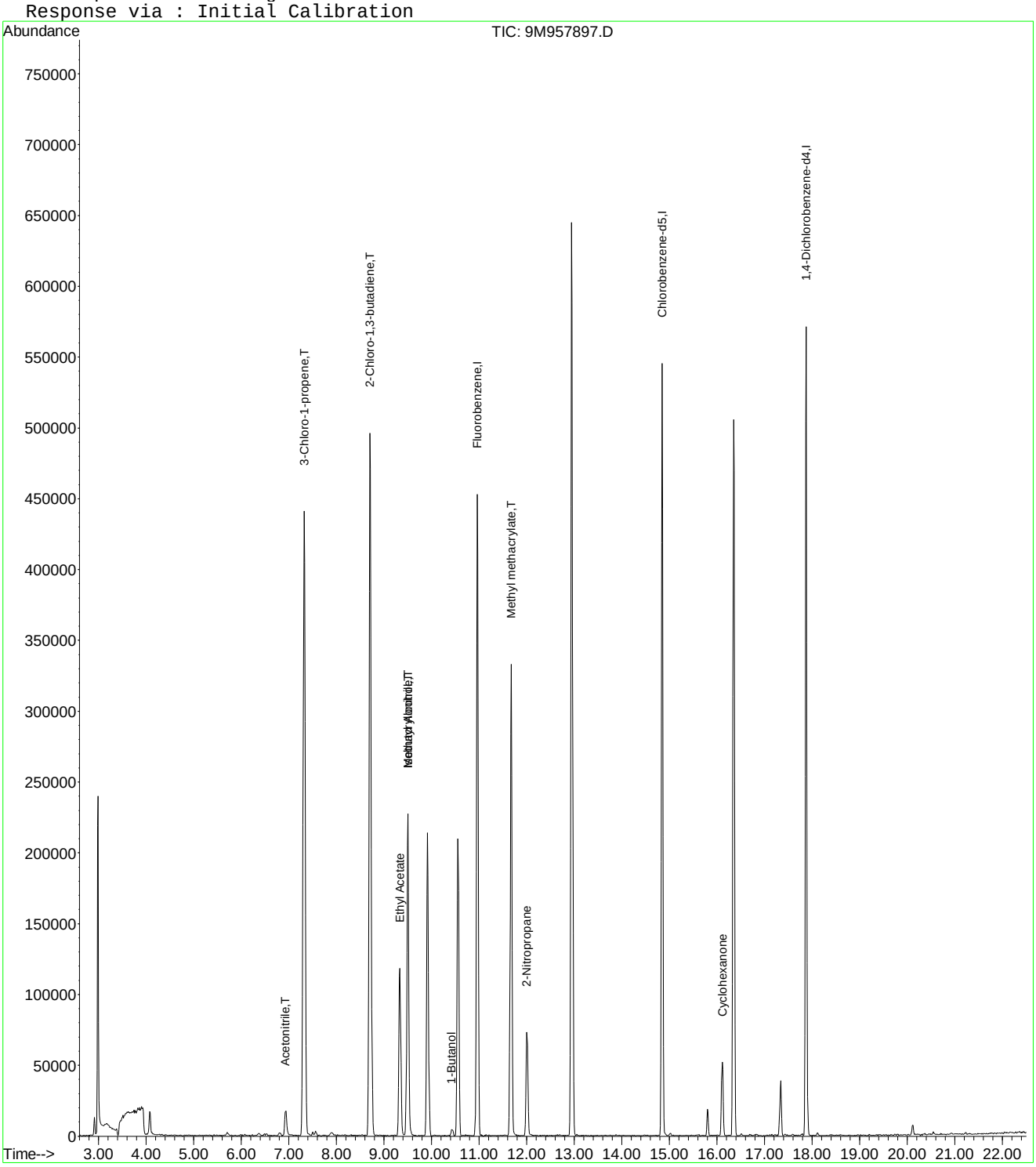
Target Compounds					Qvalue
2) Acetonitrile	6.93	41	24663	52.3999 ug/L #	95
3) 3-Chloro-1-propene	7.32	41	408290	53.2380 ug/L	99
4) 2-Chloro-1,3-butadiene	8.70	53	433367	52.6464 ug/L	100
5) Ethyl Acetate	9.33	43	199641	54.0087 ug/L	99
6) Methacrylonitrile	9.50	67	98625	53.0031 ug/L	97
7) Isobutyl Alcohol	9.50	43	15873	50.3010 ug/L	98
8) 1-Butanol	10.42	56	3593	47.1615 ug/L	91
9) Methyl methacrylate	11.67	41	207430	53.1325 ug/L	99
10) 2-Nitropropane	12.00	43	62334	49.9883 ug/L	97
12) Cyclohexanone	16.11	55	27156	50.2096 ug/L	97

(#) = qualifier out of range (m) = manual integration
9M957897.D A9FOOWT.M Tue Aug 20 15:11:41 2013 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957897.D Vial: 5
Acq On : 19 Aug 2013 17:22 Operator: adc
Sample : WG441888-03 50.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11 2013 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration



9M957897.D A9FOOWT.M Tue Aug 20 15:11:42 2013 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957898.D Vial: 6
Acq On : 19 Aug 2013 17:51 Operator: adc
Sample : WG441888-04 100.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11:42 2013 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.96	96	576048	25.00 ug/L	0.00
11) Chlorobenzene-d5	14.85	117	389894	25.00 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	17.88	152	192883	25.00 ug/L	0.00

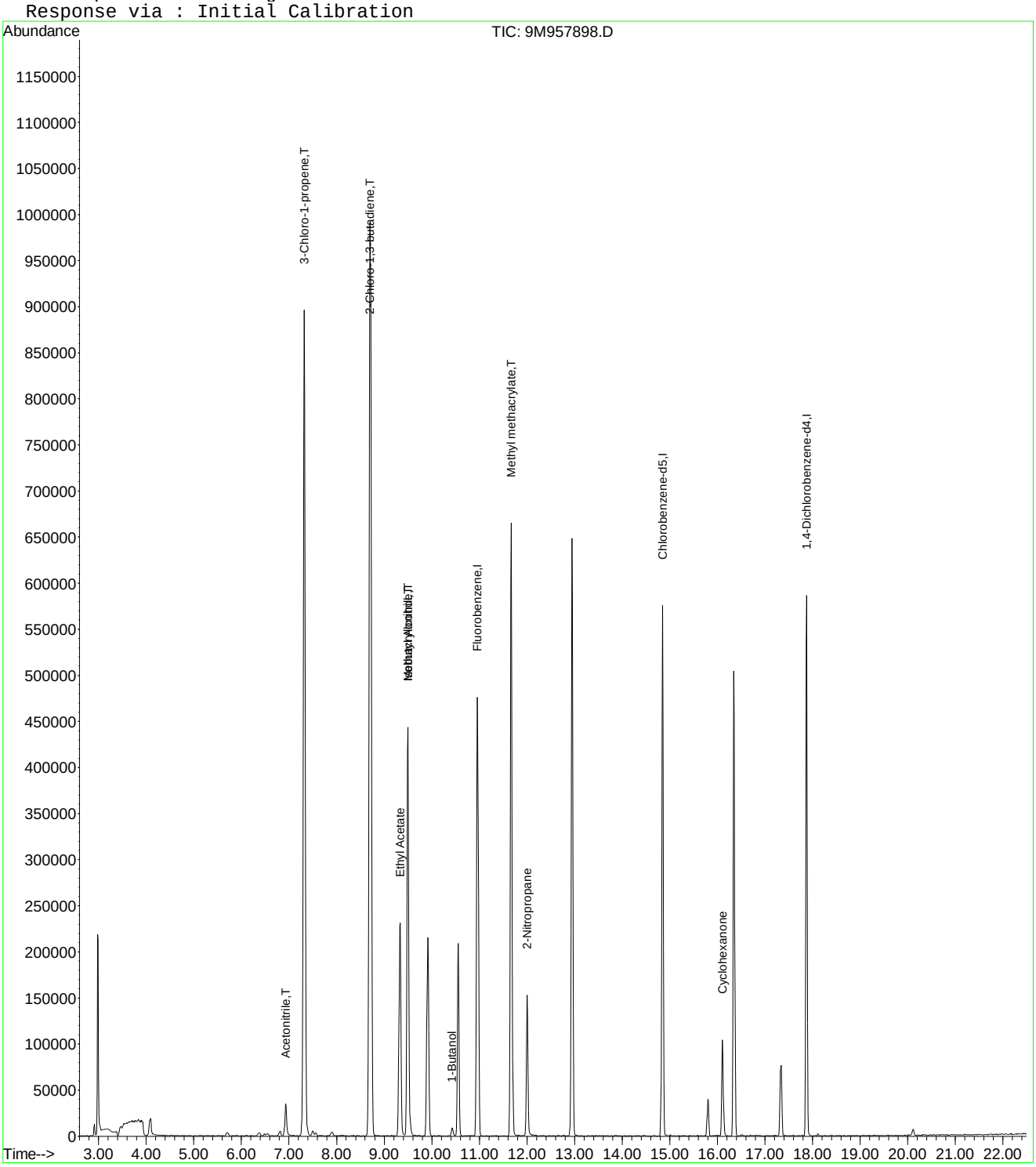
Target Compounds					Qvalue
2) Acetonitrile	6.93	41	49019	98.3454 ug/L #	100
3) 3-Chloro-1-propene	7.32	41	803367	98.9172 ug/L	100
4) 2-Chloro-1,3-butadiene	8.70	53	860009	98.6554 ug/L	100
5) Ethyl Acetate	9.34	43	394422	100.7581 ug/L	100
6) Methacrylonitrile	9.50	67	193914	98.4076 ug/L	100
7) Isobutyl Alcohol	9.50	43	30821	92.2294 ug/L	100
8) 1-Butanol	10.42	56	6864	85.0771 ug/L	100
9) Methyl methacrylate	11.67	41	411094	99.4339 ug/L	100
10) 2-Nitropropane	12.00	43	129933	98.3938 ug/L	100
12) Cyclohexanone	16.11	55	53010	95.0938 ug/L	100

(#) = qualifier out of range (m) = manual integration
9M957898.D A9FOOWT.M Tue Aug 20 15:11:43 2013 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957898.D Vial: 6
Acq On : 19 Aug 2013 17:51 Operator: adc
Sample : WG441888-04 100.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11 2013 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration



9M957898.D A9FOOWT.M Tue Aug 20 15:11:43 2013 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957899.D Vial: 7
Acq On : 19 Aug 2013 18:20 Operator: adc
Sample : WG441888-05 200.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11:44 2013 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.96	96	570456	25.00 ug/L	0.00
11) Chlorobenzene-d5	14.85	117	385619	25.00 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	17.88	152	194966	25.00 ug/L	0.00

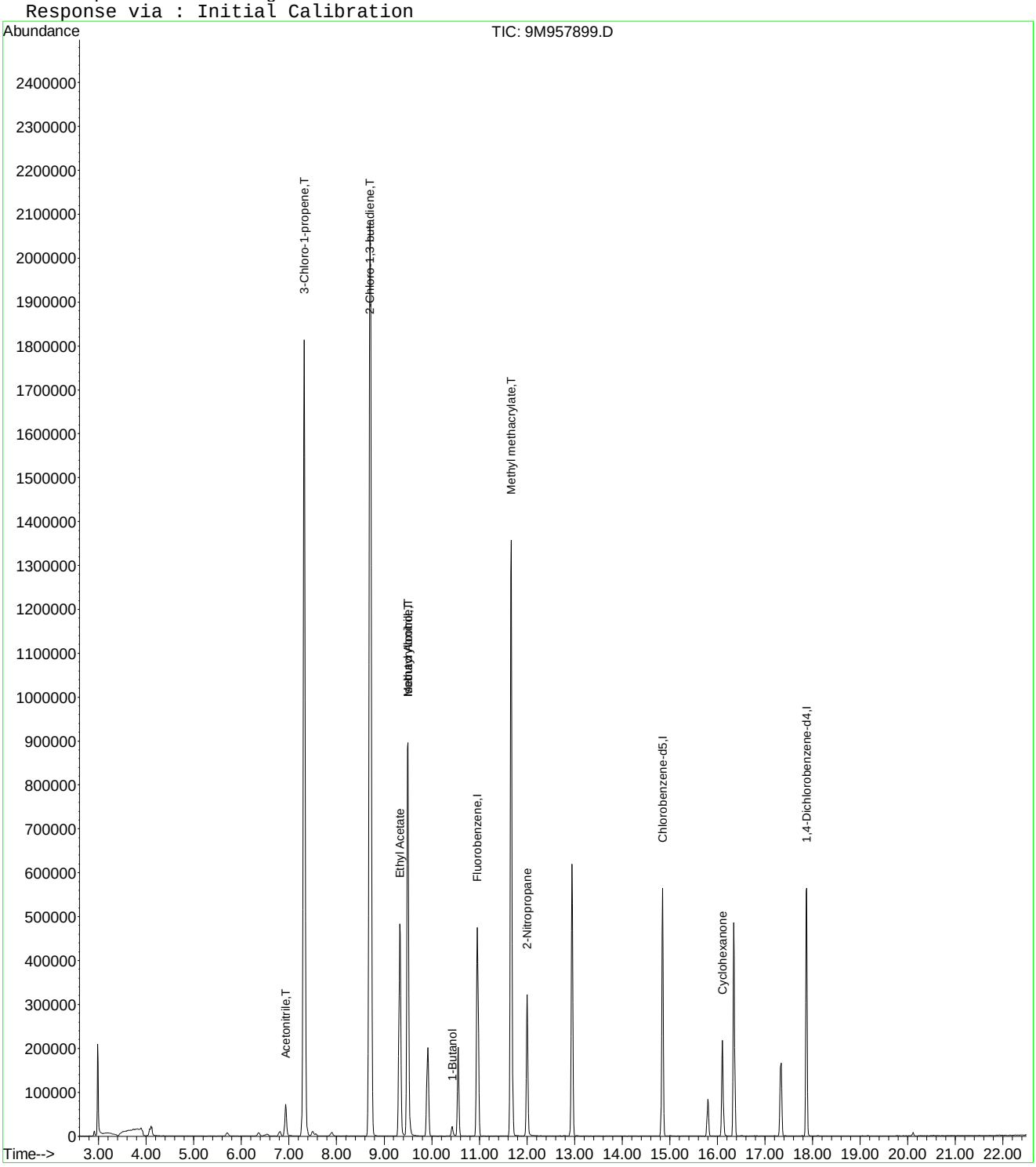
Target Compounds					Qvalue
2) Acetonitrile	6.93	41	99623	201.8300 ug/L #	97
3) 3-Chloro-1-propene	7.32	41	1635978	203.4097 ug/L	100
4) 2-Chloro-1,3-butadiene	8.70	53	1777598	205.9150 ug/L	99
5) Ethyl Acetate	9.33	43	796090	205.3608 ug/L	100
6) Methacrylonitrile	9.50	67	402877	206.4564 ug/L	96
7) Isobutyl Alcohol	9.50	43	61854	186.9075 ug/L	94
8) 1-Butanol	10.43	56	17315	216.7176 ug/L	91
9) Methyl methacrylate	11.67	41	835832	204.1498 ug/L	98
10) 2-Nitropropane	12.00	43	277669	212.3304 ug/L	98
12) Cyclohexanone	16.11	55	106553	193.2629 ug/L	98

(#) = qualifier out of range (m) = manual integration
9M957899.D A9FOOWT.M Tue Aug 20 15:11:44 2013 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957899.D Vial: 7
Acq On : 19 Aug 2013 18:20 Operator: adc
Sample : WG441888-05 200.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11 2013 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration



9M957899.D A9FOOWT.M Tue Aug 20 15:11:45 2013 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957900.D Vial: 8
Acq On : 19 Aug 2013 18:48 Operator: adc
Sample : WG441888-06 300.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11:45 2013 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.96	96	592665	25.00 ug/L	0.00
11) Chlorobenzene-d5	14.85	117	402629	25.00 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	17.88	152	202256	25.00 ug/L	0.00

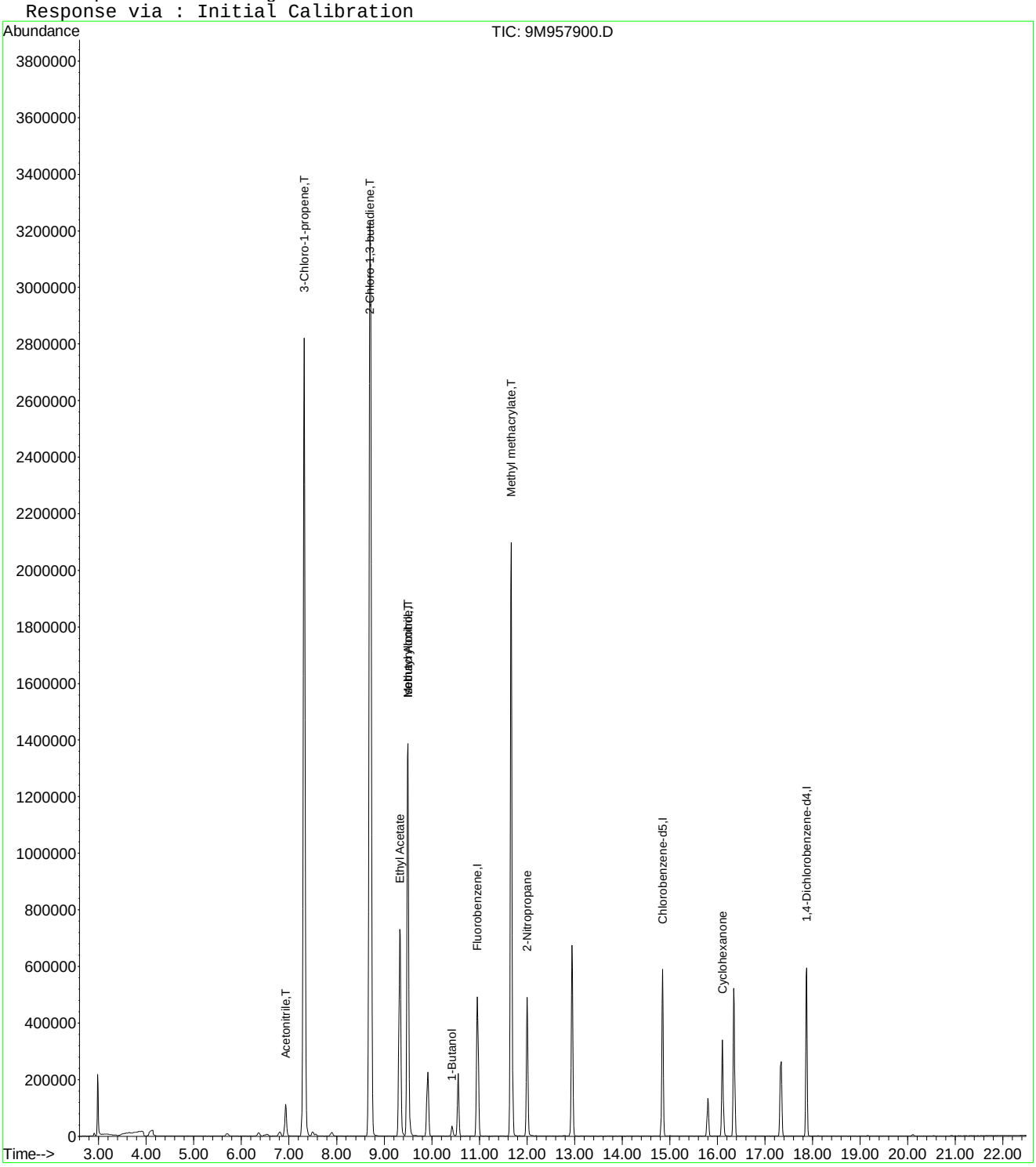
Target Compounds					Qvalue
2) Acetonitrile	6.93	41	152817	297.9962 ug/L #	98
3) 3-Chloro-1-propene	7.32	41	2473810	296.0557 ug/L	99
4) 2-Chloro-1,3-butadiene	8.70	53	2716896	302.9287 ug/L	96
5) Ethyl Acetate	9.32	43	1204380	299.0417 ug/L	100
6) Methacrylonitrile	9.50	67	614447	303.0771 ug/L	97
7) Isobutyl Alcohol	9.50	43	100051	291.0002 ug/L	95
8) 1-Butanol	10.42	56	27392	329.9958 ug/L	92
9) Methyl methacrylate	11.67	41	1277690	300.3782 ug/L	98
10) 2-Nitropropane	12.00	43	426305	313.7748 ug/L	98
12) Cyclohexanone	16.11	55	164262	285.3469 ug/L	99

(#) = qualifier out of range (m) = manual integration
9M957900.D A9FOOWT.M Tue Aug 20 15:11:46 2013 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957900.D Vial: 8
Acq On : 19 Aug 2013 18:48 Operator: adc
Sample : WG441888-06 300.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11 2013 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration



9M957900.D A9FOOWT.M Tue Aug 20 15:11:46 2013 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957901.D Vial: 9
Acq On : 19 Aug 2013 19:17 Operator: adc
Sample : WG441888-07 400.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11:47 2013 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.96	96	594215	25.00 ug/L	0.00
11) Chlorobenzene-d5	14.85	117	396612	25.00 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	17.88	152	201290	25.00 ug/L	0.00

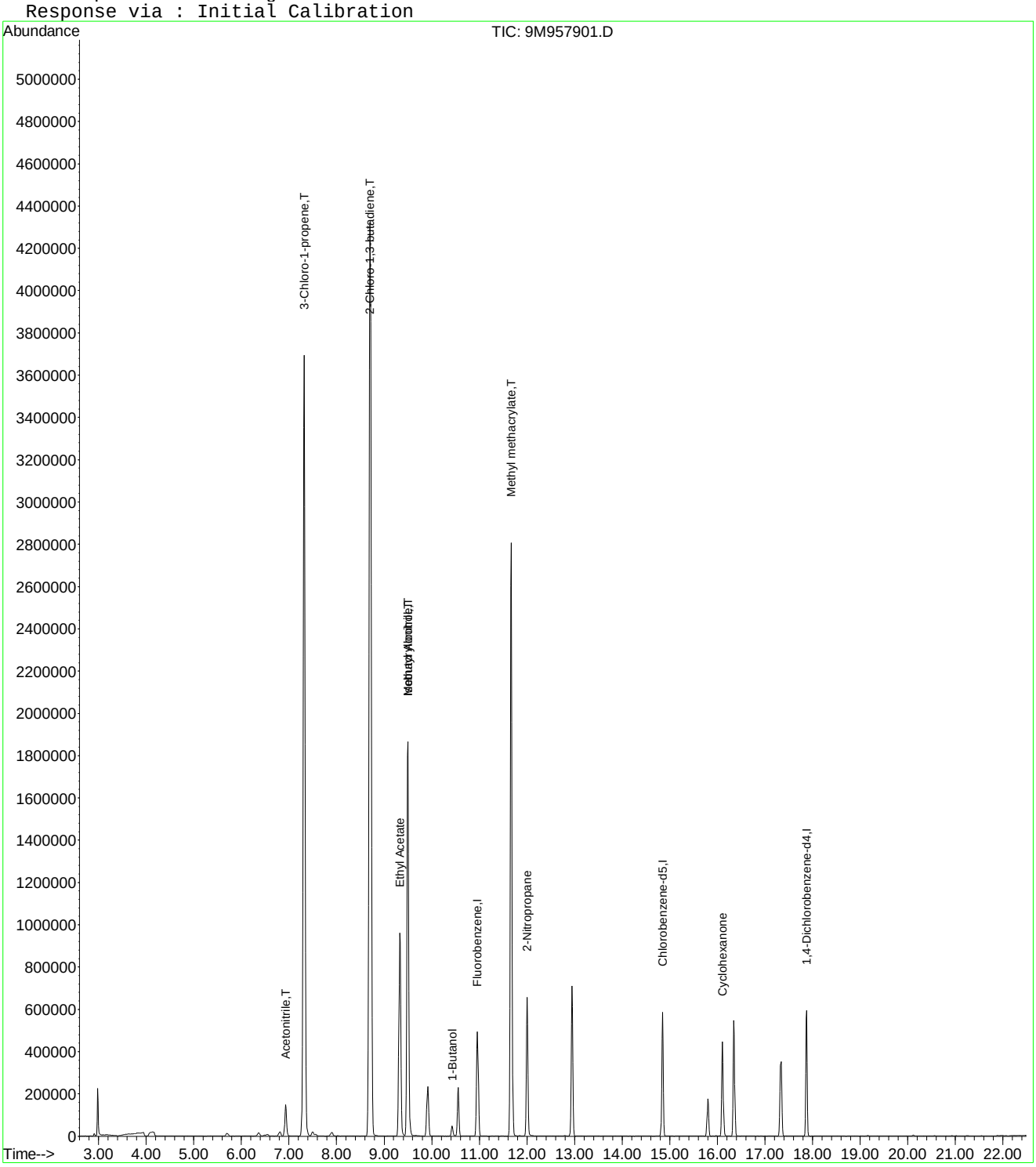
Target Compounds					Qvalue
2) Acetonitrile	6.93	41	204659	398.0481 ug/L #	97
3) 3-Chloro-1-propene	7.32	41	3257505	388.8283 ug/L	98
4) 2-Chloro-1,3-butadiene	8.70	53	3609438	401.3956 ug/L	95
5) Ethyl Acetate	9.33	43	1573860	389.7624 ug/L	99
6) Methacrylonitrile	9.50	67	822198	404.4928 ug/L	95
7) Isobutyl Alcohol	9.50	43	139506	404.6974 ug/L	95
8) 1-Butanol	10.43	56	38071	457.4510 ug/L	87
9) Methyl methacrylate	11.67	41	1682799	394.5852 ug/L	97
10) 2-Nitropropane	12.00	43	574030	421.4033 ug/L	98
12) Cyclohexanone	16.11	55	220458	388.7775 ug/L	97

(#) = qualifier out of range (m) = manual integration
9M957901.D A9FOOWT.M Tue Aug 20 15:11:48 2013 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957901.D Vial: 9
Acq On : 19 Aug 2013 19:17 Operator: adc
Sample : WG441888-07 400.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11 2013 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration



9M957901.D A9FOOWT.M Tue Aug 20 15:11:48 2013 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957902.D Vial: 10
Acq On : 19 Aug 2013 19:46 Operator: adc
Sample : WG441888-08 500.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11:48 2013 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.96	96	558878	25.00 ug/L	0.00
11) Chlorobenzene-d5	14.85	117	375431	25.00 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	17.88	152	195195	25.00 ug/L	0.00

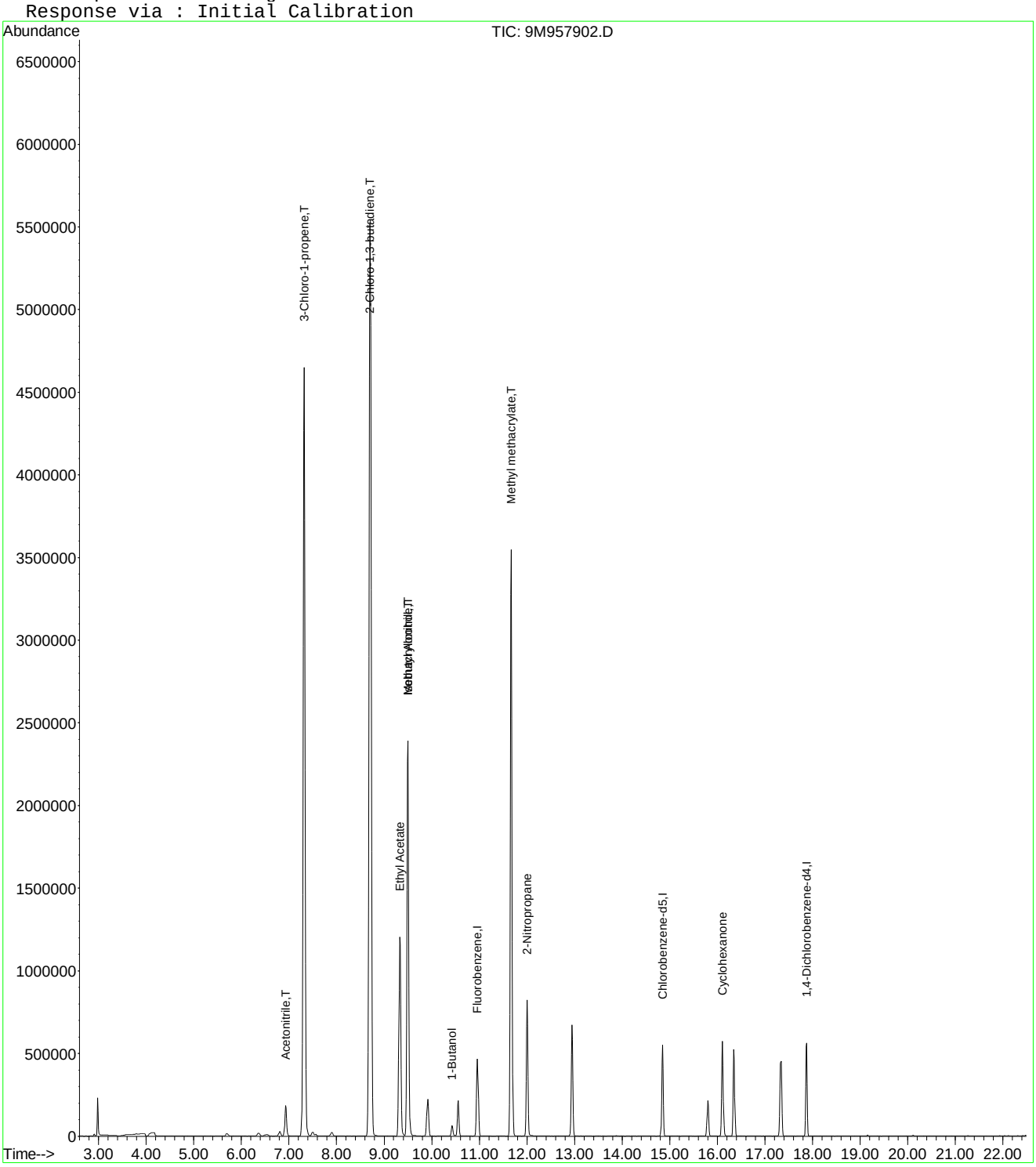
Target Compounds					Qvalue
2) Acetonitrile	6.93	41	253035	523.2532 ug/L #	96
3) 3-Chloro-1-propene	7.32	41	4057841	514.9848 ug/L	97
4) 2-Chloro-1,3-butadiene	8.71	53	4507808	532.9974 ug/L	93
5) Ethyl Acetate	9.33	43	1968668	518.3617 ug/L	99
6) Methacrylonitrile	9.50	67	1041348	544.6993 ug/L	94
7) Isobutyl Alcohol	9.50	43	180492	556.7011 ug/L	98
8) 1-Butanol	10.42	56	50726	648.0485 ug/L	87
9) Methyl methacrylate	11.67	41	2116667	527.7007 ug/L	96
10) 2-Nitropropane	12.00	43	730036	569.8155 ug/L	96
12) Cyclohexanone	16.11	55	277715	517.3808 ug/L	98

(#) = qualifier out of range (m) = manual integration
9M957902.D A9FOOWT.M Tue Aug 20 15:11:49 2013 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957902.D Vial: 10
Acq On : 19 Aug 2013 19:46 Operator: adc
Sample : WG441888-08 500.0ug/L A9STD 8260 Inst : HPMS9
Misc : 1,1 STD59338 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11 2013 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration



9M957902.D A9FOOWT.M Tue Aug 20 15:11:50 2013 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957904.D Vial: 12
Acq On : 19 Aug 2013 20:45 Operator: adc
Sample : WG441888-09 100.0ug/L A9 ALT SRC 8260 Inst : HPMS9
Misc : 1,1 STD59238 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11:51 2013 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.96	96	586208	25.00 ug/L	0.00
11) Chlorobenzene-d5	14.85	117	409219	25.00 ug/L	0.00
13) 1,4-Dichlorobenzene-d4	17.88	152	211008	25.00 ug/L	0.00

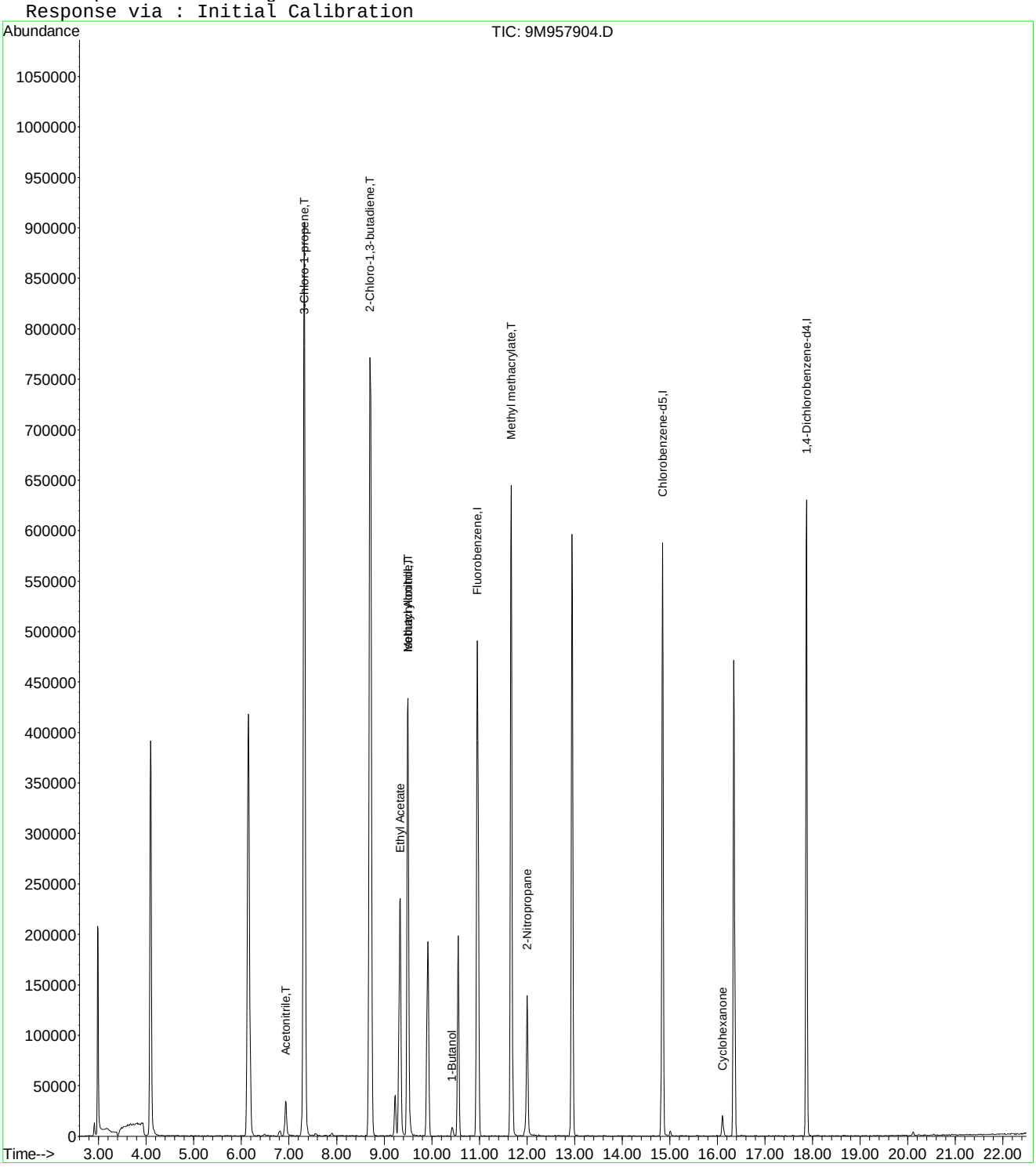
Target Compounds					Qvalue
2) Acetonitrile	6.93	41	50132	98.8352 ug/L #	98
3) 3-Chloro-1-propene	7.32	41	816431	98.7834 ug/L	100
4) 2-Chloro-1,3-butadiene	8.70	53	671697	75.7179 ug/L	99
5) Ethyl Acetate	9.33	43	396368	99.5003 ug/L	99
6) Methacrylonitrile	9.50	67	193448	96.4696 ug/L	98
7) Isobutyl Alcohol	9.50	43	31033	91.2543 ug/L	97
8) 1-Butanol	10.42	56	7261	88.4379 ug/L	91
9) Methyl methacrylate	11.67	41	399116	94.8636 ug/L	100
10) 2-Nitropropane	12.00	43	115876	86.2281 ug/L	100
12) Cyclohexanone	16.11	55	11072	18.9239 ug/L	96

(#) = qualifier out of range (m) = manual integration
9M957904.D A9FOOWT.M Tue Aug 20 15:11:52 2013 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\081913\9M957904.D Vial: 12
Acq On : 19 Aug 2013 20:45 Operator: adc
Sample : WG441888-09 100.0ug/L A9 ALT SRC 8260 Inst : HPMS9
Misc : 1,1 STD59238 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 15:11 2013 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Initial Calibration



9M957904.D A9FOOWT.M Tue Aug 20 15:11:52 2013 Page 2

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\081913\9M957904.D Vial: 12
Acq On : 19 Aug 2013 20:45 Operator: adc
Sample : WG441888-09 100.0ug/L A9 ALT SRC 8260 Inst : HPMS9
Misc : 1,1 STD59238 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX WATER 08/19/2013 SOP: OVL MSV01
Last Update : Tue Aug 20 15:10:19 2013
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	102	0.00
2	T	Acetonitrile	100.0000	98.8352	1.2	102	0.00
3	T	3-Chloro-1-propene	100.0000	98.7834	1.2	102	0.00
4	T	2-Chloro-1,3-butadiene	100.0000	75.7179	24.3	78	0.00
5		Ethyl Acetate	100.0000	99.5003	0.5	100	0.00
6	T	Methacrylonitrile	100.0000	96.4696	3.5	100	0.00
7	T	Isobutyl Alcohol	100.0000	91.2543	8.7	101	0.00
8		1-Butanol	100.0000	88.4379	11.6	106	0.00
9	T	Methyl methacrylate	100.0000	94.8636	5.1	97	0.00
10		2-Nitropropane	100.0000	86.2281	13.8	89	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	105	0.00
12		Cyclohexanone	100.0000	18.9239	81.1#	21	0.00
13	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
9M957904.D A9FOOWT.M Tue Aug 20 15:12:04 2013 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964348.D Vial: 2
Acq On : 26 Jun 2014 15:55 Operator: ADC
Sample : WG482030-02 0.3ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:06 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	850104	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	610098	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	310655	25.00 ug/L	0.00

System Monitoring Compounds					
37) Dibromofluoromethane	10.04	111	1032	0.1145 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.44%#	
43) 1,2-Dichloroethane-d4	10.68	65	3255	0.2699 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	1.08%#	
58) Toluene-d8	13.07	98	8360	0.2774 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	1.12%#	
79) p-Bromofluorobenzene	16.47	95	6759	0.6030 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	2.40%#	

Target Compounds					Qvalue
3) Chloromethane	3.89	50	5726	0.2997 ug/L #	41
4) Vinyl Chloride	4.13	62	2853	0.2260 ug/L #	59
5) 1,3-Butadiene	4.19	54	3686	Below Cal #	41
6) Bromomethane	5.06	94	2237	0.2887 ug/L	100
7) Chloroethane	5.23	64	1346	0.1703 ug/L #	43
10) Isoprene	6.32	67	1523	0.1219 ug/L	67
13) Acetone	6.62	43	1807	0.5051 ug/L #	59
14) 1,1-Dichloroethene	6.82	61	3381	0.1874 ug/L	100
16) Dimethyl Sulfide	7.08	62	3626	0.2566 ug/L	71
18) Methyl acetate	7.36	43	3372	0.2882 ug/L #	70
19) Methylene Chloride	7.62	84	3165	0.3318 ug/L	92
20) Carbon Disulfide	7.68	76	5944	0.2335 ug/L #	64
22) Methyl Tert Butyl Ether	7.84	73	7865	0.3083 ug/L #	68
23) trans-1,2-Dichloroethene	8.07	61	5016	0.2819 ug/L	92
24) n-Hexane	8.16	57	2522	0.1401 ug/L	81
26) Vinyl Acetate	8.66	43	6623	0.3814 ug/L #	81
27) 1,1-Dichloroethane	8.70	63	5598	0.2538 ug/L #	86
29) 2-Butanone	9.23	43	1738	0.3030 ug/L #	63
31) 2,2-Dichloropropane	9.48	77	3743	0.2753 ug/L #	52
32) cis-1,2-Dichloroethene	9.55	96	3130	0.3060 ug/L	78
33) Chloroform	9.75	83	4868	0.2921 ug/L	93
35) Bromochloromethane	10.00	130	1426	0.2282 ug/L	61
38) 1,1,1-Trichloroethane	10.29	97	3006	0.2100 ug/L	78
39) Cyclohexane	10.32	56	4124	0.1724 ug/L	82
40) 1,1-Dichloropropene	10.47	75	2591	0.2159 ug/L #	63
42) Carbon Tetrachloride	10.63	117	2292	0.1821 ug/L #	74
45) 1,2-Dichloroethane	10.79	62	4998	0.3142 ug/L	90
46) Benzene	10.85	78	13413	0.3716 ug/L	93
47) Trichloroethene	11.60	130	3143	0.3044 ug/L	99
48) Methylcyclohexane	11.68	83	1995	0.1483 ug/L	87
49) 1,2-Dichloropropane	11.81	63	4313	0.3327 ug/L	91
51) Bromodichloromethane	12.11	83	3996	0.3122 ug/L #	81
52) Dibromomethane	12.20	174	1749	0.2949 ug/L	96
53) 2-Chloroethyl Vinyl Ether	12.38	63	1876	0.2659 ug/L #	56
54) 4-Methyl-2-Pentanone	12.43	58	810	0.1527 ug/L #	50
55) cis-1,3-Dichloropropene	12.74	75	4439	0.2956 ug/L #	77
56) Dimethyl Disulfide	13.00	94	3978	0.2475 ug/L	92
59) Toluene	13.17	91	10965	0.3036 ug/L	89
60) Ethyl Methacrylate	13.24	69	2967	0.2857 ug/L #	56
61) trans-1,3-Dichloropropene	13.33	75	4359	0.3156 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964348.D Vial: 2
Acq On : 26 Jun 2014 15:55 Operator: ADC
Sample : WG482030-02 0.3ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:06 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

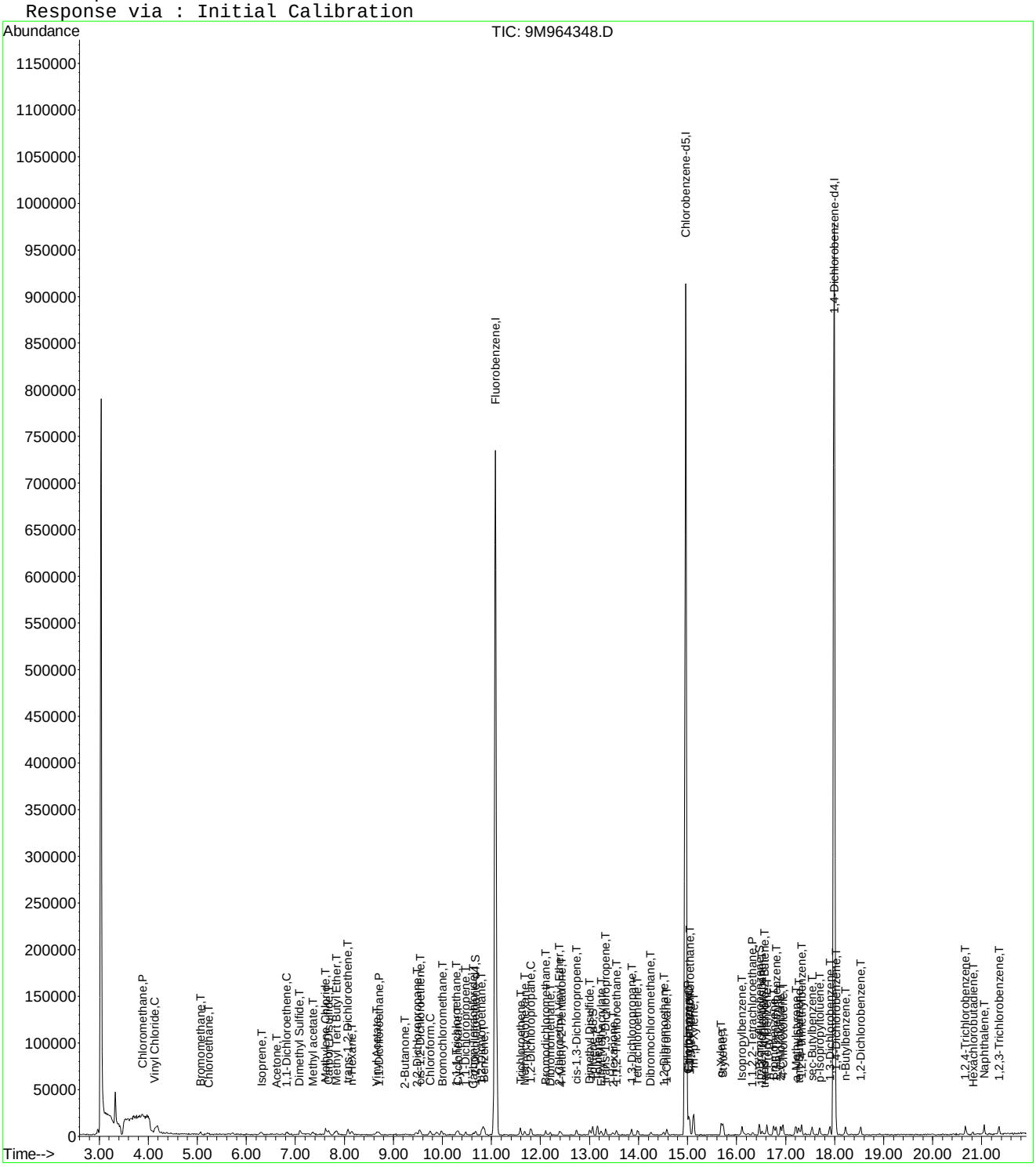
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
62)	1,1,2-Trichloroethane	13.55	97	2418	0.3115 ug/L	100
63)	2-Hexanone	13.48	43	2247	0.2693 ug/L #	82
64)	1,3-Dichloropropane	13.86	76	3701	0.2713 ug/L	77
65)	Tetrachloroethene	13.98	164	1529	0.2036 ug/L	98
66)	Dibromochloromethane	14.25	129	2721	0.2877 ug/L	85
67)	1,2-Dibromoethane	14.51	107	2139	0.2701 ug/L	76
68)	1-Chlorohexane	14.58	91	2151	0.2003 ug/L	91
69)	Chlorobenzene	15.01	112	7434	0.3076 ug/L	93
70)	1,1,1,2-Tetrachloroethane	15.04	131	2566	0.2829 ug/L	85
71)	Ethylbenzene	15.03	106	3173	0.2383 ug/L	69
72)	m-,p-Xylene	15.12	106	8456	0.5393 ug/L	96
73)	o-Xylene	15.68	106	4471	0.2759 ug/L	91
74)	Styrene	15.72	104	6831	0.2675 ug/L	82
76)	Isopropylbenzene	16.11	105	9389	0.2408 ug/L	92
78)	1,1,2,2-Tetrachloroethane	16.32	83	2106	0.2663 ug/L #	91
80)	1,2,3-Trichloropropane	16.51	110	883	0.3232 ug/L #	77
81)	trans-1,4-Dichloro-2-Buten	16.57	53	870	0.2085 ug/L #	1
82)	n-Propylbenzene	16.61	91	11342	0.2646 ug/L	87
83)	Bromobenzene	16.76	156	3243	0.3213 ug/L	76
84)	1,3,5-Trimethylbenzene	16.81	105	7462	0.2443 ug/L	100
85)	2-Chlorotoluene	16.89	91	8665	0.3011 ug/L	97
86)	4-Chlorotoluene	16.94	91	7615	0.3054 ug/L	94
87)	a-Methylstyrene	17.21	118	3816	0.2391 ug/L	98
88)	tert-Butylbenzene	17.28	134	1118	0.1650 ug/L #	17
89)	1,2,4-Trimethylbenzene	17.33	105	9687	0.3060 ug/L	88
90)	sec-Butylbenzene	17.54	105	8689	0.2264 ug/L	98
91)	p-Isopropyltoluene	17.70	119	7820	0.2490 ug/L	82
92)	1,3-Dichlorobenzene	17.91	146	5314	0.2856 ug/L	94
93)	1,4-Dichlorobenzene	18.03	146	5916	0.3086 ug/L #	4
94)	n-Butylbenzene	18.23	91	7778	0.2618 ug/L	90
95)	1,2-Dichlorobenzene	18.53	146	5650	0.3086 ug/L	98
97)	1,2,4-Trichlorobenzene	20.67	180	4865	0.3536 ug/L #	82
98)	Hexachlorobutadiene	20.83	225	1240	0.1788 ug/L #	75
99)	Naphthalene	21.05	128	9528	0.3182 ug/L	100
100)	1,2,3-Trichlorobenzene	21.36	180	3960	0.2946 ug/L	92

(#) = qualifier out of range (m) = manual integration
9M964348.D 8260WTR.M Mon Jun 30 15:44:09 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964348.D Vial: 2
Acq On : 26 Jun 2014 15:55 Operator: ADC
Sample : WG482030-02 0.3ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964348.D 8260WTR.M Mon Jun 30 15:44:10 2014 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964349.D Vial: 3
Acq On : 26 Jun 2014 16:24 Operator: ADC
Sample : WG482030-03 0.4ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:11 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	829778	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	591746	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	310125	25.00 ug/L	0.00

System Monitoring Compounds					
37) Dibromofluoromethane	10.03	111	1238	0.1407 ug/L	-0.01
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.56%#	
43) 1,2-Dichloroethane-d4	10.68	65	2323	0.1974 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.80%#	
58) Toluene-d8	13.07	98	5946	0.2034 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.80%#	
79) p-Bromofluorobenzene	16.47	95	4709	0.4209 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	1.68%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.38	85	1886	0.2786 ug/L #	63
3) Chloromethane	3.88	50	11210	0.6011 ug/L #	76
4) Vinyl Chloride	4.12	62	4592	0.3727 ug/L	79
5) 1,3-Butadiene	4.18	54	8060	Below Cal #	66
6) Bromomethane	5.07	94	3365	0.4449 ug/L	80
7) Chloroethane	5.22	64	2919	0.3784 ug/L #	63
8) Trichlorofluoromethane	5.73	101	5032	0.3951 ug/L #	80
10) Isoprene	6.31	67	4571	0.3748 ug/L	92
12) 1,1,2-Trichloro-1,2,2-Trif	6.51	101	2516	0.3448 ug/L	93
13) Acetone	6.61	43	1422	0.4072 ug/L #	39
14) 1,1-Dichloroethene	6.82	61	6950	0.3946 ug/L	100
16) Dimethyl Sulfide	7.10	62	5409	0.3922 ug/L	96
17) Iodomethane	7.36	142	445	1.0891 ug/L #	34
18) Methyl acetate	7.35	43	4961	0.4344 ug/L #	70
19) Methylene Chloride	7.62	84	3548	0.3810 ug/L	88
20) Carbon Disulfide	7.68	76	10215	0.4110 ug/L #	78
22) Methyl Tert Butyl Ether	7.84	73	8689	0.3490 ug/L	87
23) trans-1,2-Dichloroethene	8.07	61	7289	0.4197 ug/L	100
24) n-Hexane	8.15	57	7337	0.4176 ug/L	98
26) Vinyl Acetate	8.65	43	7085	0.4180 ug/L #	81
27) 1,1-Dichloroethane	8.70	63	8872	0.4121 ug/L #	92
29) 2-Butanone	9.23	43	2539	0.4534 ug/L #	63
31) 2,2-Dichloropropane	9.48	77	5464	0.4117 ug/L	95
32) cis-1,2-Dichloroethene	9.54	96	4538	0.4544 ug/L	67
33) Chloroform	9.75	83	7475	0.4595 ug/L	93
35) Bromochloromethane	9.99	130	2758	0.4521 ug/L	81
38) 1,1,1-Trichloroethane	10.29	97	5075	0.3632 ug/L	99
39) Cyclohexane	10.32	56	8802	0.3771 ug/L	96
40) 1,1-Dichloropropene	10.47	75	4960	0.4235 ug/L	86
42) Carbon Tetrachloride	10.63	117	5039	0.4101 ug/L #	87
45) 1,2-Dichloroethane	10.80	62	5865	0.3777 ug/L	95
46) Benzene	10.83	78	15819	0.4490 ug/L	94
47) Trichloroethene	11.59	130	4893	0.4854 ug/L	98
48) Methylcyclohexane	11.67	83	5062	0.3855 ug/L	97
49) 1,2-Dichloropropane	11.81	63	5110	0.4038 ug/L	86
51) Bromodichloromethane	12.11	83	4807	0.3847 ug/L #	94
52) Dibromomethane	12.21	174	1788	0.3089 ug/L	85
53) 2-Chloroethyl Vinyl Ether	12.40	63	2098	0.3047 ug/L #	56
54) 4-Methyl-2-Pentanone	12.43	58	1483	0.2864 ug/L #	66
55) cis-1,3-Dichloropropene	12.74	75	5507	0.3757 ug/L	84

(#) = qualifier out of range (m) = manual integration
9M964349.D 8260WTR.M Mon Jun 30 15:44:13 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964349.D Vial: 3
Acq On : 26 Jun 2014 16:24 Operator: ADC
Sample : WG482030-03 0.4ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:11 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

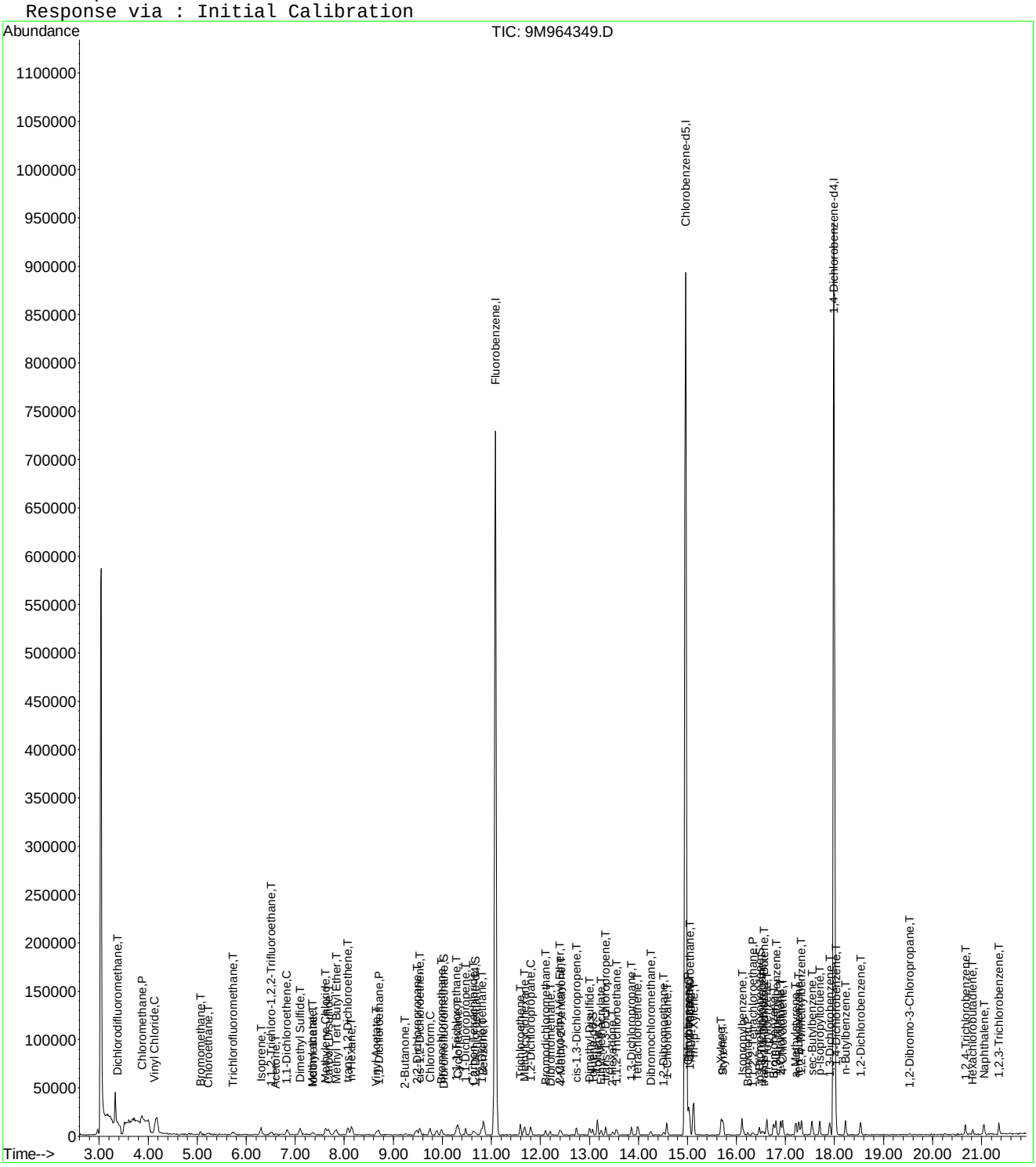
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
56)	Dimethyl Disulfide	13.01	94	4892	0.3119 ug/L		99
59)	Toluene	13.16	91	15964	0.4557 ug/L		93
60)	Ethyl Methacrylate	13.23	69	3773	0.3746 ug/L	#	69
61)	trans-1,3-Dichloropropene	13.33	75	5117	0.3820 ug/L		96
62)	1,1,2-Trichloroethane	13.55	97	3003	0.3988 ug/L		94
63)	2-Hexanone	13.47	43	3214	0.3972 ug/L	#	72
64)	1,3-Dichloropropane	13.85	76	5466	0.4131 ug/L		97
65)	Tetrachloroethene	13.98	164	2983	0.4095 ug/L		90
66)	Dibromochloromethane	14.26	129	3692	0.4024 ug/L		93
67)	1,2-Dibromoethane	14.52	107	2928	0.3812 ug/L		98
68)	1-Chlorohexane	14.59	91	4144	0.3978 ug/L		92
69)	Chlorobenzene	15.01	112	10369	0.4424 ug/L		96
70)	1,1,1,2-Tetrachloroethane	15.04	131	3555	0.4041 ug/L		95
71)	Ethylbenzene	15.03	106	5309	0.4110 ug/L		95
72)	m-,p-Xylene	15.13	106	12726	0.8368 ug/L		100
73)	o-Xylene	15.68	106	6844	0.4355 ug/L		90
74)	Styrene	15.73	104	8959	0.3617 ug/L		81
75)	Bromoform	16.23	173	1800	0.2676 ug/L		88
76)	Isopropylbenzene	16.12	105	16237	0.4293 ug/L		92
78)	1,1,2,2-Tetrachloroethane	16.34	83	2482	0.3144 ug/L	#	72
80)	1,2,3-Trichloropropane	16.52	110	866	0.3176 ug/L		71
81)	trans-1,4-Dichloro-2-Buten	16.56	53	1167	0.2802 ug/L	#	45
82)	n-Propylbenzene	16.61	91	18799	0.4393 ug/L		91
83)	Bromobenzene	16.76	156	4368	0.4335 ug/L		95
84)	1,3,5-Trimethylbenzene	16.81	105	12384	0.4062 ug/L		95
85)	2-Chlorotoluene	16.89	91	13948	0.4855 ug/L		98
86)	4-Chlorotoluene	16.95	91	10281	0.4130 ug/L		89
87)	a-Methylstyrene	17.20	118	5520	0.3465 ug/L		93
88)	tert-Butylbenzene	17.27	134	2460	0.3637 ug/L		67
89)	1,2,4-Trimethylbenzene	17.32	105	13438	0.4253 ug/L		76
90)	sec-Butylbenzene	17.55	105	16659	0.4349 ug/L		93
91)	p-Isopropyltoluene	17.70	119	12388	0.3952 ug/L		97
92)	1,3-Dichlorobenzene	17.91	146	8250	0.4442 ug/L		91
93)	1,4-Dichlorobenzene	18.03	146	8673	0.4532 ug/L	#	31
94)	n-Butylbenzene	18.23	91	11978	0.4038 ug/L		95
95)	1,2-Dichlorobenzene	18.53	146	6776	0.3708 ug/L		91
96)	1,2-Dibromo-3-Chloropropan	19.53	157	622	0.3111 ug/L	#	5
97)	1,2,4-Trichlorobenzene	20.68	180	5373	0.3912 ug/L		99
98)	Hexachlorobutadiene	20.81	225	2590	0.3741 ug/L		80
99)	Naphthalene	21.05	128	11122	0.3721 ug/L		98
100)	1,2,3-Trichlorobenzene	21.35	180	5615	0.4185 ug/L		92

(#) = qualifier out of range (m) = manual integration
9M964349.D 8260WTR.M Mon Jun 30 15:44:13 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964349.D Vial: 3
Acq On : 26 Jun 2014 16:24 Operator: ADC
Sample : WG482030-03 0.4ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964349.D 8260WTR.M Mon Jun 30 15:44:14 2014 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964350.D Vial: 4
Acq On : 26 Jun 2014 16:53 Operator: ADC
Sample : WG482030-04 1.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:15 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	842009	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	593983	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	308977	25.00 ug/L	0.00

System Monitoring Compounds					
37) Dibromofluoromethane	10.04	111	5656	0.6334 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	2.52%#	
43) 1,2-Dichloroethane-d4	10.68	65	8338	0.6982 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	2.80%#	
58) Toluene-d8	13.07	98	19613	0.6683 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	2.68%#	
79) p-Bromofluorobenzene	16.47	95	9698	0.8700 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	3.48%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.39	85	6899	1.0043 ug/L	94
3) Chloromethane	3.88	50	21649	1.1441 ug/L #	69
4) Vinyl Chloride	4.12	62	14606	1.1681 ug/L	94
5) 1,3-Butadiene	4.19	54	17926	Below Cal	85
6) Bromomethane	5.08	94	8704	1.1342 ug/L	99
7) Chloroethane	5.23	64	7411	0.9468 ug/L #	87
8) Trichlorofluoromethane	5.74	101	13406	1.0374 ug/L	97
9) Diethyl ether	6.25	59	62520	5.3816 ug/L	97
10) Isoprene	6.30	67	11377	0.9193 ug/L	88
11) Acrolein	6.50	56	6186	2.6671 ug/L	96
12) 1,1,2-Trichloro-1,2,2-Trif	6.52	101	7599	1.0262 ug/L	94
13) Acetone	6.60	43	4619	1.3036 ug/L #	64
14) 1,1-Dichloroethene	6.84	61	18257	1.0214 ug/L	98
15) Tert-Butyl Alcohol	6.94	59	13987	10.8311 ug/L #	92
16) Dimethyl Sulfide	7.10	62	14118	1.0088 ug/L	98
17) Iodomethane	7.36	142	3500	1.3696 ug/L #	69
18) Methyl acetate	7.35	43	12383	1.0685 ug/L	95
19) Methylene Chloride	7.62	84	10032	1.0617 ug/L	90
20) Carbon Disulfide	7.67	76	27039	1.0722 ug/L #	89
21) Acrylonitrile	7.79	53	13833	2.4387 ug/L	100
22) Methyl Tert Butyl Ether	7.83	73	27288	1.0801 ug/L	93
23) trans-1,2-Dichloroethene	8.07	61	18468	1.0479 ug/L	97
24) n-Hexane	8.16	57	17877	1.0028 ug/L	100
25) Diisopropyl ether	8.49	45	250964	5.2788 ug/L	99
26) Vinyl Acetate	8.66	43	20549	1.1948 ug/L	96
27) 1,1-Dichloroethane	8.70	63	22880	1.0474 ug/L	97
28) Ethyl-Tert-Butyl ether	9.07	59	225052	5.2377 ug/L	99
29) 2-Butanone	9.25	43	5564	0.9792 ug/L	94
30) Propionitrile	9.36	54	9573	4.7626 ug/L	95
31) 2,2-Dichloropropane	9.48	77	15080	1.1197 ug/L	93
32) cis-1,2-Dichloroethene	9.54	96	10311	1.0176 ug/L	98
33) Chloroform	9.74	83	17538	1.0624 ug/L	94
34) 1-Bromopropane	9.89	122	1091	0.7295 ug/L	38
35) Bromochloromethane	9.99	130	6574	1.0619 ug/L	96
36) Tetrahydrofuran	10.01	42	19999	5.2049 ug/L	99
38) 1,1,1-Trichloroethane	10.29	97	14408	1.0162 ug/L	99
39) Cyclohexane	10.31	56	24474	1.0332 ug/L	95
40) 1,1-Dichloropropene	10.47	75	13084	1.1009 ug/L	96
41) Tert-Amyl-Methyl ether	10.58	73	133055	5.2022 ug/L	96
42) Carbon Tetrachloride	10.63	117	12773	1.0243 ug/L	98

(#) = qualifier out of range (m) = manual integration
9M964350.D 8260WTR.M Mon Jun 30 15:44:18 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964350.D Vial: 4
Acq On : 26 Jun 2014 16:53 Operator: ADC
Sample : WG482030-04 1.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:15 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

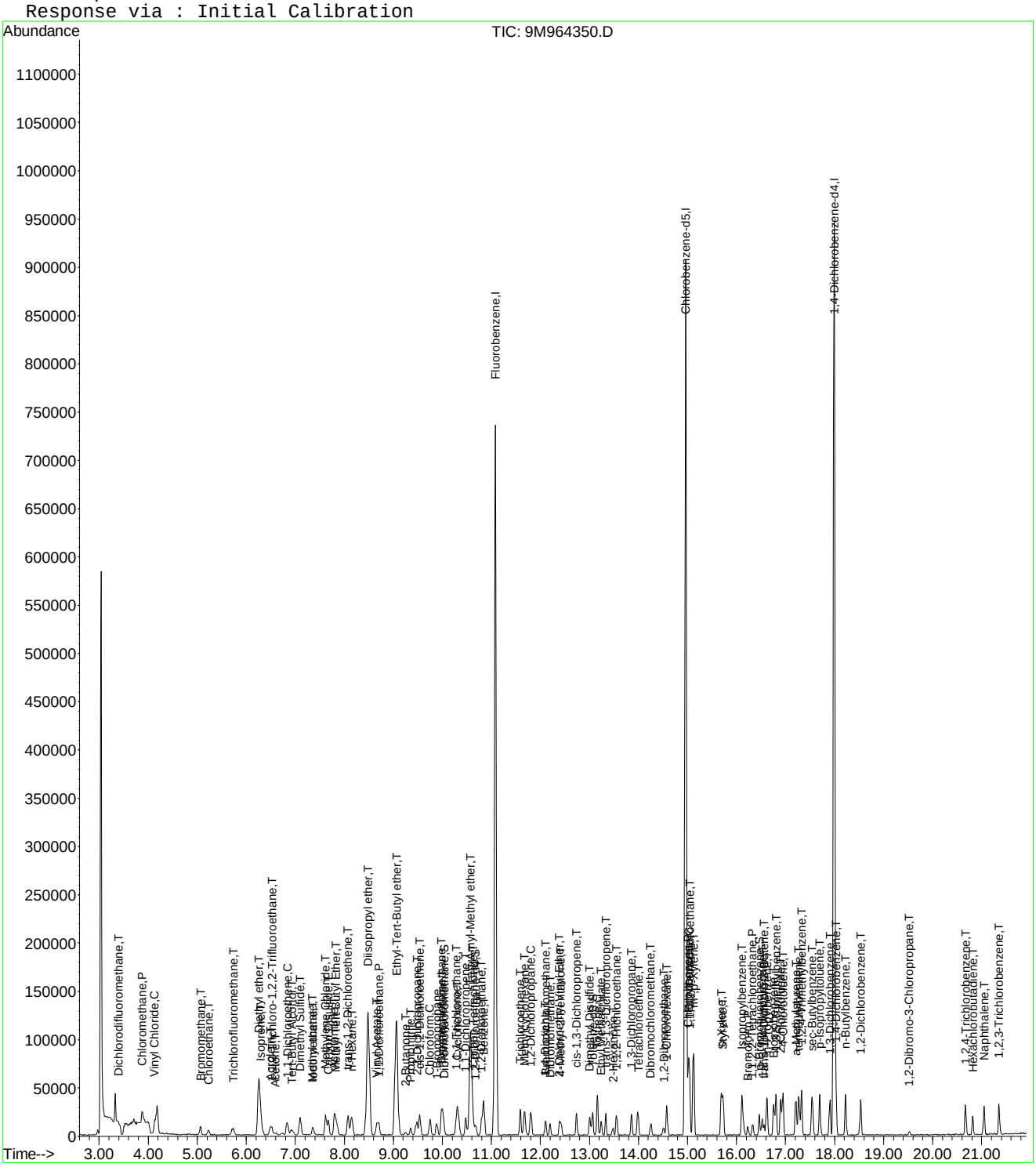
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	1,2-Dichloroethane	10.79	62	16407	1.0414 ug/L		95
46)	Benzene	10.84	78	39436	1.1031 ug/L		98
47)	Trichloroethene	11.59	130	11300	1.1048 ug/L		95
48)	Methylcyclohexane	11.67	83	13125	0.9850 ug/L		98
49)	1,2-Dichloropropane	11.81	63	13565	1.0565 ug/L		99
50)	1,4-Dioxane	12.10	88	692	7.3736 ug/L	#	25
51)	Bromodichloromethane	12.11	83	12735	1.0044 ug/L		98
52)	Dibromomethane	12.20	174	5730	0.9755 ug/L		89
53)	2-Chloroethyl Vinyl Ether	12.39	63	6593	0.9435 ug/L		88
54)	4-Methyl-2-Pentanone	12.42	58	4192	0.7977 ug/L	#	80
55)	cis-1,3-Dichloropropene	12.74	75	15060	1.0124 ug/L		98
56)	Dimethyl Disulfide	13.01	94	12681	0.7967 ug/L		97
59)	Toluene	13.16	91	39889	1.1343 ug/L		94
60)	Ethyl Methacrylate	13.23	69	9183	0.9083 ug/L		98
61)	trans-1,3-Dichloropropene	13.34	75	15130	1.1251 ug/L		97
62)	1,1,2-Trichloroethane	13.55	97	8137	1.0767 ug/L		99
63)	2-Hexanone	13.48	43	7340	0.9036 ug/L	#	87
64)	1,3-Dichloropropane	13.85	76	15244	1.1477 ug/L		96
65)	Tetrachloroethene	14.00	164	8420	1.1515 ug/L		90
66)	Dibromochloromethane	14.25	129	9104	0.9886 ug/L		94
67)	1,2-Dibromoethane	14.52	107	8164	1.0590 ug/L		96
68)	1-Chlorohexane	14.58	91	10791	1.0319 ug/L		92
69)	Chlorobenzene	15.01	112	26602	1.1307 ug/L		95
70)	1,1,1,2-Tetrachloroethane	15.04	131	9619	1.0894 ug/L		91
71)	Ethylbenzene	15.03	106	14259	1.0998 ug/L		96
72)	m-,p-Xylene	15.13	106	33680	2.2064 ug/L		98
73)	o-Xylene	15.69	106	16195	1.0266 ug/L		95
74)	Styrene	15.73	104	24122	0.9701 ug/L		93
75)	Bromoform	16.23	173	6491	0.9612 ug/L		88
76)	Isopropylbenzene	16.11	105	40054	1.0550 ug/L		98
78)	1,1,2,2-Tetrachloroethane	16.32	83	8275	1.0521 ug/L	#	95
80)	1,2,3-Trichloropropane	16.53	110	2570	0.9459 ug/L		88
81)	trans-1,4-Dichloro-2-Buten	16.56	53	3960	0.9544 ug/L		85
82)	n-Propylbenzene	16.62	91	45725	1.0725 ug/L		98
83)	Bromobenzene	16.76	156	10698	1.0658 ug/L		83
84)	1,3,5-Trimethylbenzene	16.81	105	32070	1.0558 ug/L		99
85)	2-Chlorotoluene	16.90	91	33055	1.1549 ug/L		99
86)	4-Chlorotoluene	16.95	91	28986	1.1688 ug/L		96
87)	a-Methylstyrene	17.21	118	14272	0.8991 ug/L		97
88)	tert-Butylbenzene	17.27	134	7711	1.1441 ug/L		89
89)	1,2,4-Trimethylbenzene	17.33	105	34972	1.1109 ug/L		97
90)	sec-Butylbenzene	17.54	105	41505	1.0875 ug/L		99
91)	p-Isopropyltoluene	17.70	119	34238	1.0963 ug/L		94
92)	1,3-Dichlorobenzene	17.91	146	19874	1.0741 ug/L		97
93)	1,4-Dichlorobenzene	18.03	146	20969	1.0997 ug/L	#	73
94)	n-Butylbenzene	18.23	91	32424	1.0972 ug/L		94
95)	1,2-Dichlorobenzene	18.53	146	20230	1.1110 ug/L		97
96)	1,2-Dibromo-3-Chloropropan	19.52	157	1348	0.6767 ug/L	#	43
97)	1,2,4-Trichlorobenzene	20.68	180	13461	0.9838 ug/L		93
98)	Hexachlorobutadiene	20.82	225	6617	0.9594 ug/L		92
99)	Naphthalene	21.05	128	29556	0.9925 ug/L		96
100)	1,2,3-Trichlorobenzene	21.35	180	14275	1.0678 ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964350.D Vial: 4
Acq On : 26 Jun 2014 16:53 Operator: ADC
Sample : WG482030-04 1.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964350.D 8260WTR.M Mon Jun 30 15:44:19 2014 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964351.D Vial: 5
Acq On : 26 Jun 2014 17:22 Operator: ADC
Sample : WG482030-05 2.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:20 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	836278	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	591585	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	319499	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	10.04	111	7587	0.8555 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	3.44%#	
43) 1,2-Dichloroethane-d4	10.68	65	11871	1.0008 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	4.00%#	
58) Toluene-d8	13.06	98	29844	1.0211 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	4.08%#	
79) p-Bromofluorobenzene	16.46	95	13322	1.1557 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	4.64%#	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.39	85	11901	1.7442 ug/L	96
3) Chloromethane	3.88	50	36967	1.9670 ug/L	96
4) Vinyl Chloride	4.12	62	24324	1.9587 ug/L	97
5) 1,3-Butadiene	4.18	54	28919	1.2268 ug/L	87
6) Bromomethane	5.07	94	16500	2.1647 ug/L	98
7) Chloroethane	5.23	64	14065	1.8092 ug/L	96
8) Trichlorofluoromethane	5.73	101	24442	1.9044 ug/L	96
9) Diethyl ether	6.25	59	277269	24.0302 ug/L	99
10) Isoprene	6.30	67	23622	1.9218 ug/L	96
11) Acrolein	6.50	56	28449	12.3500 ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	6.51	101	15238	2.0720 ug/L #	49
13) Acetone	6.60	43	8299	2.3582 ug/L	93
14) 1,1-Dichloroethene	6.83	61	34577	1.9477 ug/L	96
15) Tert-Butyl Alcohol	6.94	59	58271	45.4325 ug/L	99
16) Dimethyl Sulfide	7.10	62	25273	1.8182 ug/L	96
17) Iodomethane	7.36	142	8111	1.7990 ug/L	100
18) Methyl acetate	7.36	43	24021	2.0869 ug/L	93
19) Methylene Chloride	7.63	84	18410	1.9618 ug/L	98
20) Carbon Disulfide	7.68	76	47093	1.8802 ug/L	98
21) Acrylonitrile	7.80	53	61921	10.9914 ug/L	93
22) Methyl Tert Butyl Ether	7.84	73	48156	1.9191 ug/L	98
23) trans-1,2-Dichloroethene	8.07	61	33068	1.8891 ug/L	98
24) n-Hexane	8.16	57	32908	1.8585 ug/L	96
25) Diisopropyl ether	8.49	45	1179724	24.9846 ug/L	99
26) Vinyl Acetate	8.66	43	37306	2.1840 ug/L	100
27) 1,1-Dichloroethane	8.71	63	43987	2.0275 ug/L	99
28) Ethyl-Tert-Butyl ether	9.07	59	1057204	24.7734 ug/L	99
29) 2-Butanone	9.24	43	11381	2.0167 ug/L	98
30) Propionitrile	9.36	54	47075	23.5802 ug/L	96
31) 2,2-Dichloropropane	9.47	77	25794	1.9283 ug/L	100
32) cis-1,2-Dichloroethene	9.54	96	19742	1.9617 ug/L	97
33) Chloroform	9.75	83	32443	1.9787 ug/L	99
34) 1-Bromopropane	9.88	122	2617	1.7618 ug/L	93
35) Bromochloromethane	9.99	130	11522	1.8739 ug/L	99
36) Tetrahydrofuran	10.01	42	90661	23.7571 ug/L	100
38) 1,1,1-Trichloroethane	10.29	97	27359	1.9428 ug/L	100
39) Cyclohexane	10.33	56	44748	1.9020 ug/L	100
40) 1,1-Dichloropropene	10.47	75	21411	1.8139 ug/L	92
41) Tert-Amyl-Methyl ether	10.58	73	618739	24.3575 ug/L	99
42) Carbon Tetrachloride	10.63	117	21845	1.7639 ug/L	98

(#) = qualifier out of range (m) = manual integration
9M964351.D 8260WTR.M Mon Jun 30 15:44:22 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964351.D Vial: 5
Acq On : 26 Jun 2014 17:22 Operator: ADC
Sample : WG482030-05 2.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:20 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

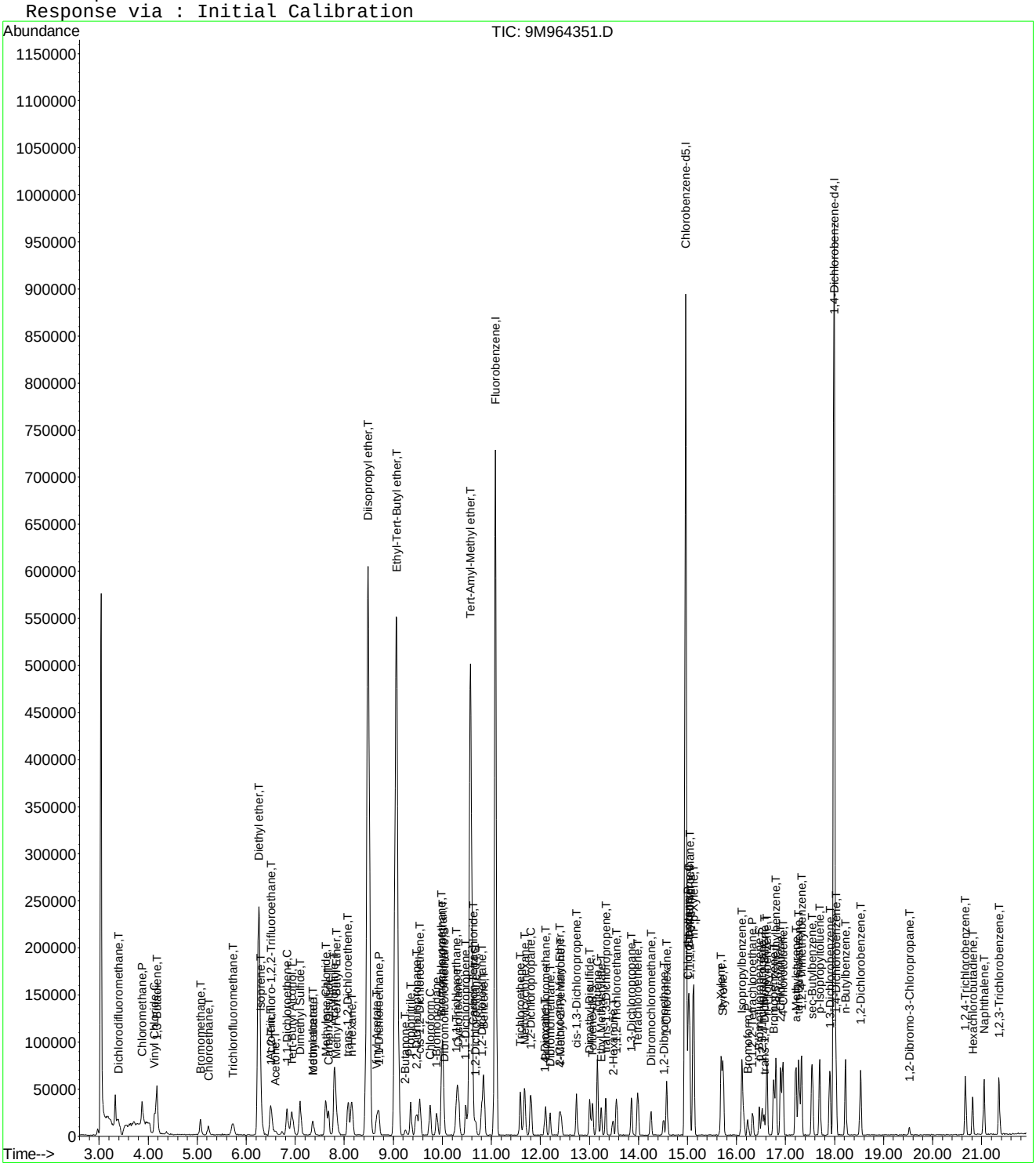
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	1,2-Dichloroethane	10.80	62	30865	1.9724 ug/L	97
46)	Benzene	10.85	78	72005	2.0279 ug/L	95
47)	Trichloroethene	11.59	130	20349	2.0031 ug/L	97
48)	Methylcyclohexane	11.68	83	25180	1.9026 ug/L	97
49)	1,2-Dichloropropane	11.81	63	24042	1.8852 ug/L	94
50)	1,4-Dioxane	12.09	88	4049	43.4398 ug/L	95
51)	Bromodichloromethane	12.11	83	23112	1.8353 ug/L	96
52)	Dibromomethane	12.20	174	11198	1.9194 ug/L	93
53)	2-Chloroethyl Vinyl Ether	12.40	63	12059	1.7375 ug/L	98
54)	4-Methyl-2-Pentanone	12.42	58	8799	1.6859 ug/L	97
55)	cis-1,3-Dichloropropene	12.74	75	28162	1.9061 ug/L	95
56)	Dimethyl Disulfide	13.01	94	24904	1.5753 ug/L	99
59)	Toluene	13.16	91	68425	1.9536 ug/L	99
60)	Ethyl Methacrylate	13.24	69	18303	1.8176 ug/L	97
61)	trans-1,3-Dichloropropene	13.34	75	26718	1.9949 ug/L	98
62)	1,1,2-Trichloroethane	13.55	97	14598	1.9394 ug/L	91
63)	2-Hexanone	13.48	43	15240	1.8837 ug/L	93
64)	1,3-Dichloropropane	13.85	76	26622	2.0124 ug/L	98
65)	Tetrachloroethene	13.99	164	13134	1.8035 ug/L	91
66)	Dibromochloromethane	14.26	129	18235	1.9882 ug/L	91
67)	1,2-Dibromoethane	14.52	107	14753	1.9215 ug/L	93
68)	1-Chlorohexane	14.58	91	18803	1.8053 ug/L	96
69)	Chlorobenzene	15.01	112	47844	2.0418 ug/L	86
70)	1,1,1,2-Tetrachloroethane	15.04	131	16651	1.8934 ug/L	97
71)	Ethylbenzene	15.03	106	25342	1.9625 ug/L	95
72)	m-,p-Xylene	15.13	106	60319	3.9675 ug/L	97
73)	o-Xylene	15.68	106	31514	2.0058 ug/L	97
74)	Styrene	15.73	104	46573	1.8807 ug/L	99
75)	Bromoform	16.23	173	11294	1.6793 ug/L	97
76)	Isopropylbenzene	16.11	105	72517	1.9179 ug/L	99
78)	1,1,2,2-Tetrachloroethane	16.33	83	15055	1.8512 ug/L	99
80)	1,2,3-Trichloropropane	16.52	110	5644	2.0089 ug/L	82
81)	trans-1,4-Dichloro-2-Buten	16.57	53	7113	1.6578 ug/L	80
82)	n-Propylbenzene	16.61	91	90084	2.0434 ug/L	99
83)	Bromobenzene	16.76	156	21316	2.0537 ug/L	96
84)	1,3,5-Trimethylbenzene	16.80	105	64789	2.0628 ug/L	93
85)	2-Chlorotoluene	16.89	91	53418	1.8049 ug/L	93
86)	4-Chlorotoluene	16.95	91	47598	1.8561 ug/L	86
87)	a-Methylstyrene	17.21	118	28906	1.7611 ug/L	99
88)	tert-Butylbenzene	17.27	134	12915	1.8532 ug/L	85
89)	1,2,4-Trimethylbenzene	17.33	105	66006	2.0276 ug/L	87
90)	sec-Butylbenzene	17.55	105	77127	1.9543 ug/L	100
91)	p-Isopropyltoluene	17.70	119	63077	1.9532 ug/L	100
92)	1,3-Dichlorobenzene	17.91	146	37165	1.9424 ug/L	95
93)	1,4-Dichlorobenzene	18.03	146	38711	1.9633 ug/L	84
94)	n-Butylbenzene	18.23	91	59547	1.9487 ug/L	97
95)	1,2-Dichlorobenzene	18.53	146	37209	1.9762 ug/L	99
96)	1,2-Dibromo-3-Chloropropan	19.53	157	3119	1.5141 ug/L	75
97)	1,2,4-Trichlorobenzene	20.67	180	24509	1.7322 ug/L	95
98)	Hexachlorobutadiene	20.82	225	13176	1.8474 ug/L	97
99)	Naphthalene	21.05	128	59592	1.9353 ug/L	97
100)	1,2,3-Trichlorobenzene	21.36	180	26370	1.9076 ug/L	94

(#) = qualifier out of range (m) = manual integration
9M964351.D 8260WTR.M Mon Jun 30 15:44:23 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964351.D Vial: 5
Acq On : 26 Jun 2014 17:22 Operator: ADC
Sample : WG482030-05 2.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964351.D 8260WTR.M Mon Jun 30 15:44:24 2014 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964352.D Vial: 6
Acq On : 26 Jun 2014 17:51 Operator: ADC
Sample : WG482030-06 5.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:25 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	821066	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	594731	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	318932	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	10.04	111	42788	4.9138 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 19.64%#		
43) 1,2-Dichloroethane-d4	10.68	65	60240	5.1726 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 20.68%#		
58) Toluene-d8	13.06	98	155958	5.3078 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 21.24%#		
79) p-Bromofluorobenzene	16.47	95	58541	5.0875 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 20.36%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.39	85	62970	9.4000 ug/L	99
3) Chloromethane	3.88	50	194676	10.5503 ug/L	93
4) Vinyl Chloride	4.12	62	117290	9.6196 ug/L	97
5) 1,3-Butadiene	4.18	54	93242	8.6751 ug/L	96
6) Bromomethane	5.06	94	73542	9.8271 ug/L	96
7) Chloroethane	5.23	64	71472	9.3639 ug/L	100
8) Trichlorofluoromethane	5.73	101	122141	9.6928 ug/L	98
9) Diethyl ether	6.25	59	1151137	101.6145 ug/L	100
10) Isoprene	6.31	67	117361	9.7248 ug/L	98
11) Acrolein	6.50	56	115134	50.9069 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.52	101	72958	10.1043 ug/L	97
13) Acetone	6.60	43	35902	10.3905 ug/L	99
14) 1,1-Dichloroethene	6.83	61	170808	9.8000 ug/L	100
15) Tert-Butyl Alcohol	6.93	59	244955	194.5238 ug/L	98
16) Dimethyl Sulfide	7.10	62	137557	10.0798 ug/L	98
17) Iodomethane	7.36	142	73134	7.9487 ug/L	96
18) Methyl acetate	7.36	43	118207	10.4599 ug/L	98
19) Methylene Chloride	7.62	84	91635	9.9456 ug/L	96
20) Carbon Disulfide	7.68	76	238759	9.7090 ug/L	98
21) Acrylonitrile	7.79	53	268644	48.5697 ug/L	95
22) Methyl Tert Butyl Ether	7.83	73	251465	10.2071 ug/L	98
23) trans-1,2-Dichloroethene	8.07	61	171605	9.9851 ug/L	98
24) n-Hexane	8.15	57	165051	9.4942 ug/L	94
25) Diisopropyl ether	8.49	45	4830517	104.1978 ug/L	100
26) Vinyl Acetate	8.65	43	180654	10.7720 ug/L	100
27) 1,1-Dichloroethane	8.69	63	213419	10.0194 ug/L	99
28) Ethyl-Tert-Butyl ether	9.06	59	4310115	102.8701 ug/L	100
29) 2-Butanone	9.24	43	58686	10.5915 ug/L	99
30) Propionitrile	9.36	54	197014	100.5142 ug/L	99
31) 2,2-Dichloropropane	9.48	77	130335	9.9242 ug/L	100
32) cis-1,2-Dichloroethene	9.54	96	96867	9.8035 ug/L	100
33) Chloroform	9.75	83	158388	9.8391 ug/L	99
34) 1-Bromopropane	9.89	122	15411	10.5670 ug/L	95
35) Bromochloromethane	9.99	130	59022	9.7772 ug/L	97
36) Tetrahydrofuran	10.01	42	378788	101.0977 ug/L	99
38) 1,1,1-Trichloroethane	10.29	97	136064	9.8413 ug/L	98
39) Cyclohexane	10.32	56	226939	9.8246 ug/L	99
40) 1,1-Dichloropropene	10.48	75	114789	9.9048 ug/L	97
41) Tert-Amyl-Methyl ether	10.58	73	2551325	102.2973 ug/L	100
42) Carbon Tetrachloride	10.63	117	115215	9.4754 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964352.D Vial: 6
Acq On : 26 Jun 2014 17:51 Operator: ADC
Sample : WG482030-06 5.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:25 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

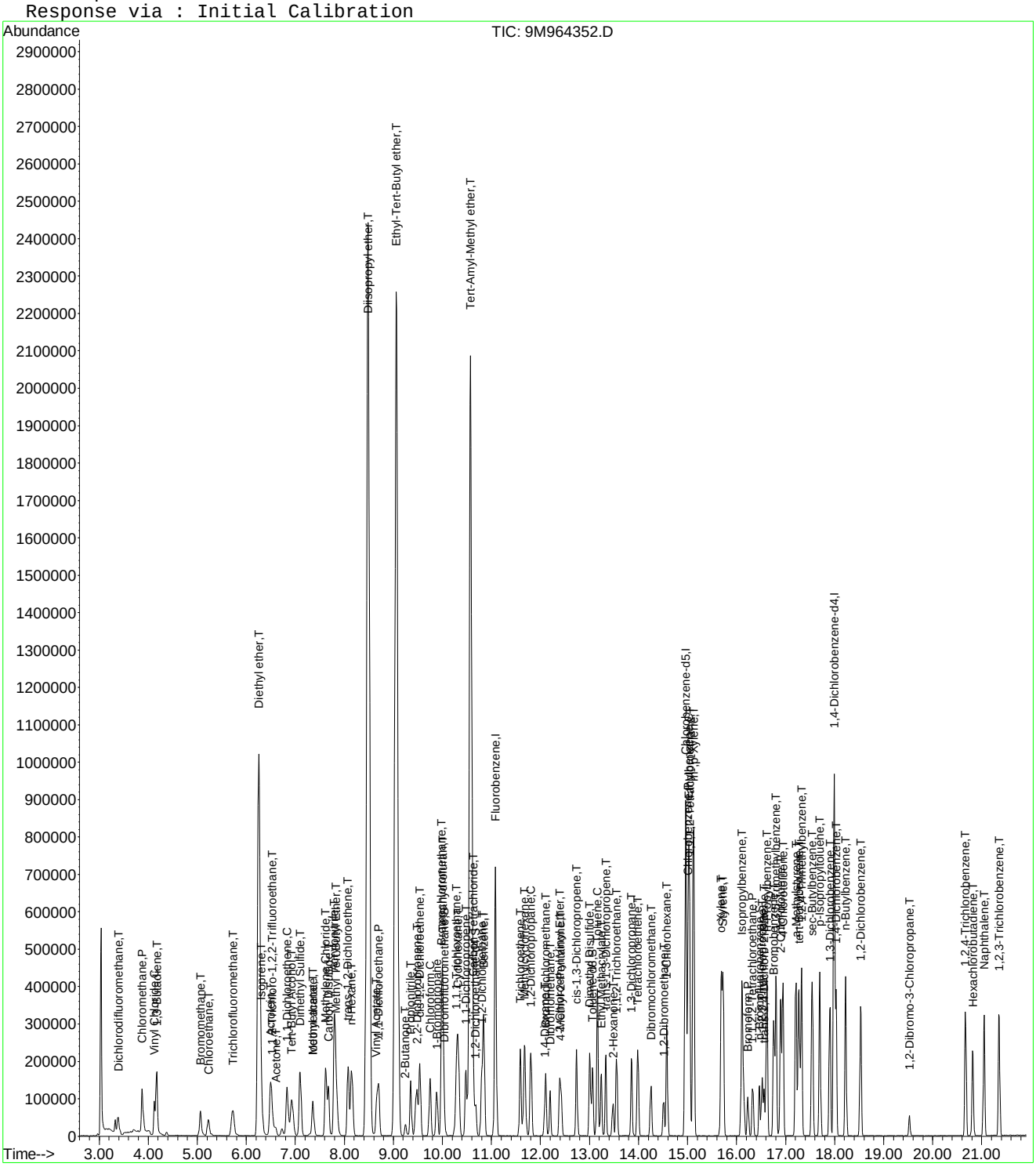
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	1,2-Dichloroethane	10.80	62	158604	10.3235 ug/L	99
46)	Benzene	10.84	78	346553	9.9410 ug/L	99
47)	Trichloroethene	11.59	130	96041	9.6291 ug/L	98
48)	Methylcyclohexane	11.67	83	124669	9.5946 ug/L	97
49)	1,2-Dichloropropane	11.81	63	126192	10.0786 ug/L	99
50)	1,4-Dioxane	12.08	88	18033	197.0520 ug/L	88
51)	Bromodichloromethane	12.11	83	124347	10.0570 ug/L	99
52)	Dibromomethane	12.20	174	57723	10.0773 ug/L	98
53)	2-Chloroethyl Vinyl Ether	12.40	63	67578	9.9175 ug/L	99
54)	4-Methyl-2-Pentanone	12.42	58	50680	9.8902 ug/L	98
55)	cis-1,3-Dichloropropene	12.74	75	147978	10.2014 ug/L	98
56)	Dimethyl Disulfide	13.01	94	147387	9.4956 ug/L	98
59)	Toluene	13.16	91	366206	10.4001 ug/L	99
60)	Ethyl Methacrylate	13.24	69	103210	10.1954 ug/L	99
61)	trans-1,3-Dichloropropene	13.34	75	137189	10.1892 ug/L	98
62)	1,1,2-Trichloroethane	13.55	97	79891	10.5576 ug/L	96
63)	2-Hexanone	13.48	43	82310	10.1201 ug/L	99
64)	1,3-Dichloropropane	13.85	76	135862	10.2157 ug/L	99
65)	Tetrachloroethene	13.99	164	70985	9.6956 ug/L	98
66)	Dibromochloromethane	14.26	129	90209	9.7839 ug/L	98
67)	1,2-Dibromoethane	14.51	107	77492	10.0394 ug/L	97
68)	1-Chlorohexane	14.58	91	103798	9.9132 ug/L	97
69)	Chlorobenzene	15.01	112	239436	10.1642 ug/L	98
70)	1,1,1,2-Tetrachloroethane	15.04	131	89314	10.1022 ug/L	99
71)	Ethylbenzene	15.03	106	133305	10.2688 ug/L	99
72)	m-,p-Xylene	15.12	106	316418	20.7022 ug/L	97
73)	o-Xylene	15.68	106	159593	10.1039 ug/L	99
74)	Styrene	15.72	104	258817	10.3960 ug/L	99
75)	Bromoform	16.23	173	64467	9.5346 ug/L	98
76)	Isopropylbenzene	16.11	105	389069	10.2354 ug/L	99
78)	1,1,2,2-Tetrachloroethane	16.32	83	85923	10.5838 ug/L	100
80)	1,2,3-Trichloropropane	16.52	110	29424	10.4918 ug/L	93
81)	trans-1,4-Dichloro-2-Buten	16.56	53	44782	10.4557 ug/L	97
82)	n-Propylbenzene	16.61	91	473436	10.7584 ug/L	98
83)	Bromobenzene	16.76	156	103098	9.9505 ug/L	95
84)	1,3,5-Trimethylbenzene	16.80	105	326710	10.4203 ug/L	99
85)	2-Chlorotoluene	16.90	91	315186	10.6688 ug/L	99
86)	4-Chlorotoluene	16.94	91	264933	10.3498 ug/L	89
87)	a-Methylstyrene	17.21	118	167623	10.2305 ug/L	100
88)	tert-Butylbenzene	17.28	134	73963	10.6317 ug/L	97
89)	1,2,4-Trimethylbenzene	17.33	105	342651	10.5443 ug/L	97
90)	sec-Butylbenzene	17.54	105	411304	10.4404 ug/L	100
91)	p-Isopropyltoluene	17.70	119	336440	10.4365 ug/L	99
92)	1,3-Dichlorobenzene	17.91	146	192645	10.0866 ug/L	99
93)	1,4-Dichlorobenzene	18.03	146	199422	10.1319 ug/L	99
94)	n-Butylbenzene	18.23	91	314567	10.3127 ug/L	99
95)	1,2-Dichlorobenzene	18.53	146	194045	10.3244 ug/L	100
96)	1,2-Dibromo-3-Chloropropan	19.53	157	18932	9.2069 ug/L	95
97)	1,2,4-Trichlorobenzene	20.67	180	141711	10.0333 ug/L	96
98)	Hexachlorobutadiene	20.82	225	70234	9.8652 ug/L	98
99)	Naphthalene	21.05	128	317534	10.3304 ug/L	99
100)	1,2,3-Trichlorobenzene	21.36	180	134763	9.7662 ug/L	99

(#) = qualifier out of range (m) = manual integration
9M964352.D 8260WTR.M Mon Jun 30 15:44:28 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964352.D Vial: 6
Acq On : 26 Jun 2014 17:51 Operator: ADC
Sample : WG482030-06 5.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964352.D 8260WTR.M Mon Jun 30 15:44:29 2014 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964353.D Vial: 7
Acq On : 26 Jun 2014 18:20 Operator: ADC
Sample : WG482030-07 20.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:30 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	838998	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	607752	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	333865	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	10.04	111	86321	9.7014 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 38.80%#		
43) 1,2-Dichloroethane-d4	10.68	65	119602	10.0504 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 40.20%#		
58) Toluene-d8	13.06	98	317754	10.5825 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 42.32%#		
79) p-Bromofluorobenzene	16.46	95	118144	9.8080 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 39.24%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.38	85	145904	21.3147 ug/L	98
3) Chloromethane	3.88	50	413277	21.9185 ug/L	99
4) Vinyl Chloride	4.13	62	268067	21.5158 ug/L	94
5) 1,3-Butadiene	4.17	54	266682	27.9410 ug/L	96
6) Bromomethane	5.07	94	140429	18.3639 ug/L	99
7) Chloroethane	5.22	64	158033	20.2621 ug/L	99
8) Trichlorofluoromethane	5.72	101	263074	20.4306 ug/L	99
9) Diethyl ether	6.26	59	930597	80.3910 ug/L	99
10) Isoprene	6.30	67	263169	21.3407 ug/L	98
11) Acrolein	6.50	56	92262	39.9221 ug/L	97
12) 1,1,2-Trichloro-1,2,2-Trif	6.52	101	149729	20.2935 ug/L	99
13) Acetone	6.60	43	69428	19.6639 ug/L	98
14) 1,1-Dichloroethene	6.84	61	362492	20.3531 ug/L	99
15) Tert-Butyl Alcohol	6.92	59	189816	147.5151 ug/L	97
16) Dimethyl Sulfide	7.11	62	287872	20.6436 ug/L	98
17) Iodomethane	7.36	142	185484	18.1764 ug/L	100
18) Methyl acetate	7.35	43	230776	19.9844 ug/L	99
19) Methylene Chloride	7.62	84	191132	20.3012 ug/L	99
20) Carbon Disulfide	7.67	76	519401	20.6697 ug/L	100
21) Acrylonitrile	7.80	53	222058	39.2891 ug/L	97
22) Methyl Tert Butyl Ether	7.83	73	515867	20.4917 ug/L	99
23) trans-1,2-Dichloroethene	8.08	61	350751	19.9728 ug/L	99
24) n-Hexane	8.15	57	367774	20.7033 ug/L	99
25) Diisopropyl ether	8.48	45	3931456	82.9918 ug/L	100
26) Vinyl Acetate	8.66	43	364454	21.2671 ug/L	100
27) 1,1-Dichloroethane	8.70	63	439147	20.1760 ug/L	100
28) Ethyl-Tert-Butyl ether	9.06	59	3494855	81.6294 ug/L	100
29) 2-Butanone	9.25	43	113282	20.0079 ug/L	99
30) Propionitrile	9.36	54	158487	79.1300 ug/L	98
31) 2,2-Dichloropropane	9.48	77	269551	20.0860 ug/L	99
32) cis-1,2-Dichloroethene	9.55	96	200196	19.8279 ug/L	99
33) Chloroform	9.75	83	326778	19.8658 ug/L	100
34) 1-Bromopropane	9.89	122	30686	20.5910 ug/L	92
35) Bromochloromethane	9.99	130	121641	19.7196 ug/L	99
36) Tetrahydrofuran	10.00	42	307184	80.2345 ug/L	99
38) 1,1,1-Trichloroethane	10.29	97	289862	20.5171 ug/L	99
39) Cyclohexane	10.32	56	489706	20.7471 ug/L	100
40) 1,1-Dichloropropene	10.48	75	233628	19.7281 ug/L	98
41) Tert-Amyl-Methyl ether	10.57	73	2095489	82.2245 ug/L	99
42) Carbon Tetrachloride	10.63	117	253639	20.4137 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964353.D Vial: 7
Acq On : 26 Jun 2014 18:20 Operator: ADC
Sample : WG482030-07 20.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:30 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

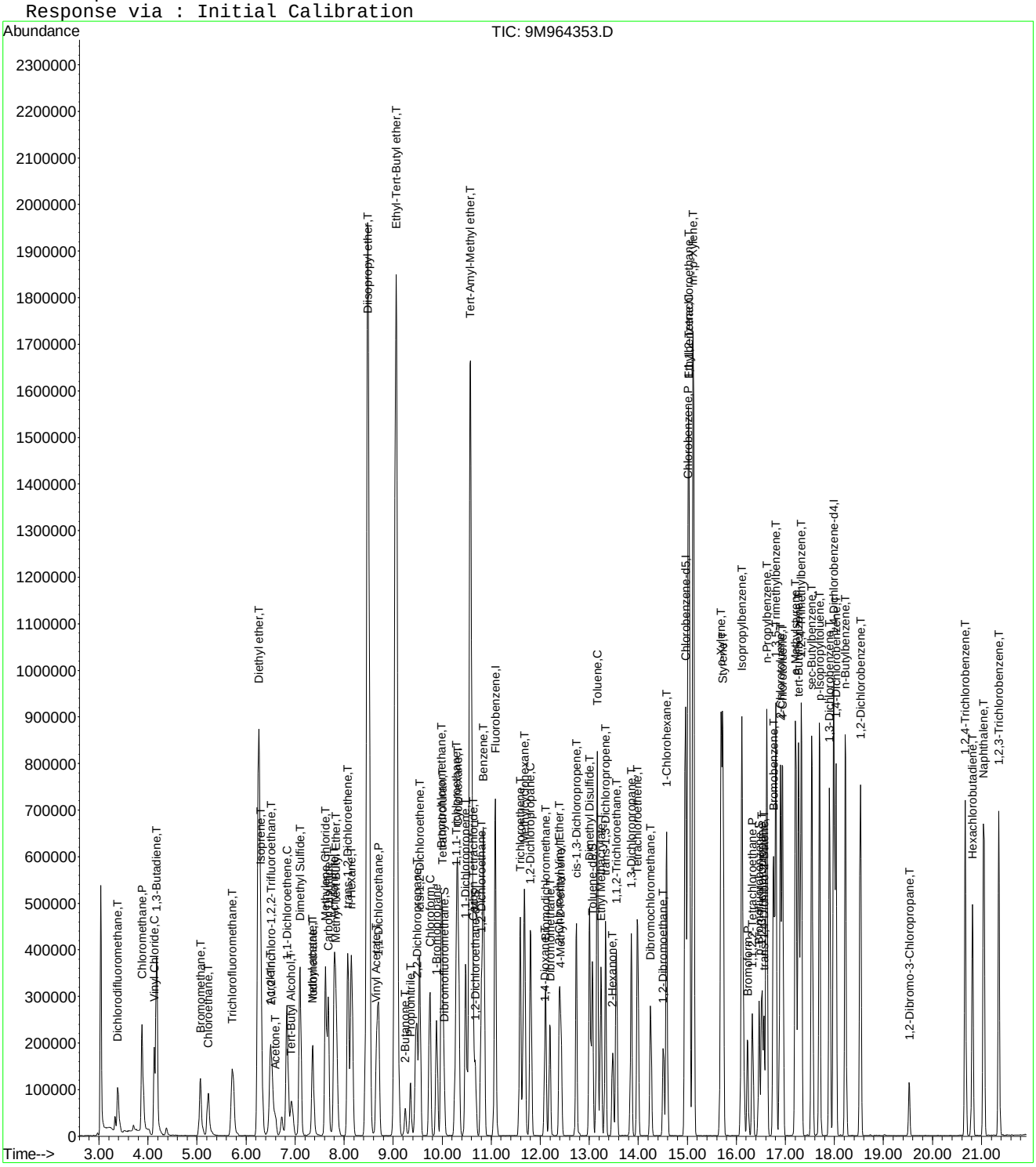
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	1,2-Dichloroethane	10.80	62	316998	20.1923 ug/L	100
46)	Benzene	10.84	78	713078	20.0178 ug/L	99
47)	Trichloroethene	11.59	130	197506	19.3787 ug/L	98
48)	Methylcyclohexane	11.68	83	278249	20.9564 ug/L	100
49)	1,2-Dichloropropane	11.80	63	258446	20.2002 ug/L	100
50)	1,4-Dioxane	12.09	88	12699	135.8000 ug/L	98
51)	Bromodichloromethane	12.11	83	256066	20.2677 ug/L	99
52)	Dibromomethane	12.20	174	119811	20.4696 ug/L	99
53)	2-Chloroethyl Vinyl Ether	12.39	63	141687	20.3491 ug/L	99
54)	4-Methyl-2-Pentanone	12.42	58	102976	19.6663 ug/L	99
55)	cis-1,3-Dichloropropene	12.74	75	300983	20.3059 ug/L	100
56)	Dimethyl Disulfide	13.01	94	331700	20.9134 ug/L	100
59)	Toluene	13.16	91	749317	20.8245 ug/L	99
60)	Ethyl Methacrylate	13.24	69	217404	21.0158 ug/L	99
61)	trans-1,3-Dichloropropene	13.33	75	283661	20.6164 ug/L	100
62)	1,1,2-Trichloroethane	13.56	97	161299	20.8589 ug/L	98
63)	2-Hexanone	13.47	43	168637	20.2898 ug/L	99
64)	1,3-Dichloropropane	13.86	76	277552	20.4226 ug/L	99
65)	Tetrachloroethene	13.98	164	154800	20.6905 ug/L	98
66)	Dibromochloromethane	14.25	129	189895	20.1543 ug/L	100
67)	1,2-Dibromoethane	14.51	107	161235	20.4411 ug/L	99
68)	1-Chlorohexane	14.58	91	224591	20.9899 ug/L	100
69)	Chlorobenzene	15.01	112	491054	20.3990 ug/L	99
70)	1,1,1,2-Tetrachloroethane	15.04	131	185314	20.5116 ug/L	97
71)	Ethylbenzene	15.04	106	271644	20.4771 ug/L	96
72)	m-,p-Xylene	15.12	106	649598	41.5906 ug/L	98
73)	o-Xylene	15.69	106	324553	20.1074 ug/L	100
74)	Styrene	15.73	104	542912	21.3401 ug/L	99
75)	Bromoform	16.23	173	138244	20.0082 ug/L	99
76)	Isopropylbenzene	16.11	105	816691	21.0247 ug/L	99
78)	1,1,2,2-Tetrachloroethane	16.33	83	173034	20.3607 ug/L	98
80)	1,2,3-Trichloropropane	16.52	110	58273	19.8492 ug/L	97
81)	trans-1,4-Dichloro-2-Buten	16.57	53	92440	20.6176 ug/L	94
82)	n-Propylbenzene	16.62	91	979929	21.2720 ug/L	99
83)	Bromobenzene	16.76	156	213220	19.6585 ug/L	98
84)	1,3,5-Trimethylbenzene	16.80	105	684267	20.8483 ug/L	99
85)	2-Chlorotoluene	16.90	91	596832	19.2987 ug/L	100
86)	4-Chlorotoluene	16.95	91	593378	22.1439 ug/L	89
87)	a-Methylstyrene	17.21	118	364142	21.2306 ug/L	100
88)	tert-Butylbenzene	17.27	134	152593	20.9532 ug/L	99
89)	1,2,4-Trimethylbenzene	17.32	105	703974	20.6942 ug/L	99
90)	sec-Butylbenzene	17.54	105	869717	21.0892 ug/L	99
91)	p-Isopropyltoluene	17.70	119	709493	21.0244 ug/L	100
92)	1,3-Dichlorobenzene	17.90	146	403823	20.1978 ug/L	99
93)	1,4-Dichlorobenzene	18.03	146	409717	19.8851 ug/L	100
94)	n-Butylbenzene	18.22	91	664057	20.7965 ug/L	99
95)	1,2-Dichlorobenzene	18.53	146	402501	20.4577 ug/L	100
96)	1,2-Dibromo-3-Chloropropan	19.53	157	42254	19.6297 ug/L	97
97)	1,2,4-Trichlorobenzene	20.67	180	290129	19.6227 ug/L	100
98)	Hexachlorobutadiene	20.82	225	147764	19.8268 ug/L	98
99)	Naphthalene	21.04	128	681370	21.1757 ug/L	99
100)	1,2,3-Trichlorobenzene	21.35	180	280677	19.4307 ug/L	99

(#) = qualifier out of range (m) = manual integration
9M964353.D 8260WTR.M Mon Jun 30 15:44:33 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964353.D Vial: 7
Acq On : 26 Jun 2014 18:20 Operator: ADC
Sample : WG482030-07 20.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964353.D 8260WTR.M Mon Jun 30 15:44:34 2014 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964354.D Vial: 8
Acq On : 26 Jun 2014 18:50 Operator: ADC
Sample : WG482030-08 50.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:36 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	814768	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	597508	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	333316	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.04	111	217171	25.1330 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.52%		
43) 1,2-Dichloroethane-d4	10.68	65	298288	25.8110 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 103.24%		
58) Toluene-d8	13.06	98	785815	26.6196 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 106.48%		
79) p-Bromofluorobenzene	16.46	95	312780	26.0089 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.04%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.38	85	382131	57.4847 ug/L	100
3) Chloromethane	3.88	50	965236	52.7144 ug/L	100
4) Vinyl Chloride	4.13	62	634731	52.4603 ug/L	100
5) 1,3-Butadiene	4.17	54	511074	57.1192 ug/L	100
6) Bromomethane	5.07	94	356490	48.0045 ug/L	100
7) Chloroethane	5.22	64	408477	53.9302 ug/L	100
8) Trichlorofluoromethane	5.72	101	657280	52.5630 ug/L	100
9) Diethyl ether	6.26	59	1160465	103.2297 ug/L	100
10) Isoprene	6.30	67	647238	54.0460 ug/L	100
11) Acrolein	6.49	56	115511	51.4684 ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.52	101	376772	52.5844 ug/L	100
13) Acetone	6.60	43	173168	50.5045 ug/L	100
14) 1,1-Dichloroethene	6.84	61	919380	53.1563 ug/L	100
15) Tert-Butyl Alcohol	6.93	59	237690	190.2135 ug/L	100
16) Dimethyl Sulfide	7.09	62	727870	53.7485 ug/L	100
17) Iodomethane	7.36	142	521037	50.5945 ug/L	100
18) Methyl acetate	7.35	43	570639	50.8850 ug/L	100
19) Methylene Chloride	7.62	84	478893	52.3786 ug/L	100
20) Carbon Disulfide	7.67	76	1280814	52.4860 ug/L	100
21) Acrylonitrile	7.80	53	293215	53.4218 ug/L	100
22) Methyl Tert Butyl Ether	7.83	73	1308522	53.5239 ug/L	100
23) trans-1,2-Dichloroethene	8.08	61	894306	52.4388 ug/L	100
24) n-Hexane	8.15	57	918535	53.2454 ug/L	100
25) Diisopropyl ether	8.48	45	4866373	105.7826 ug/L	100
26) Vinyl Acetate	8.66	43	917043	55.1040 ug/L	100
27) 1,1-Dichloroethane	8.70	63	1099080	51.9974 ug/L	100
28) Ethyl-Tert-Butyl ether	9.06	59	4340365	104.3928 ug/L	100
29) 2-Butanone	9.24	43	287020	52.2011 ug/L	100
30) Propionitrile	9.36	54	203305	104.5256 ug/L	100
31) 2,2-Dichloropropane	9.47	77	673243	51.6596 ug/L	100
32) cis-1,2-Dichloroethene	9.54	96	502389	51.2377 ug/L	100
33) Chloroform	9.75	83	818760	51.2550 ug/L	100
34) 1-Bromopropane	9.89	122	81528	56.3342 ug/L	100
35) Bromochloromethane	9.98	130	303735	50.7037 ug/L	100
36) Tetrahydrofuran	10.00	42	389991	104.8924 ug/L	100
38) 1,1,1-Trichloroethane	10.29	97	728848	53.1237 ug/L	100
39) Cyclohexane	10.32	56	1213841	52.9555 ug/L	100
40) 1,1-Dichloropropene	10.48	75	593560	51.6122 ug/L	100
41) Tert-Amyl-Methyl ether	10.58	73	2567131	103.7267 ug/L	100
42) Carbon Tetrachloride	10.63	117	638706	52.9339 ug/L	100

(#) = qualifier out of range (m) = manual integration
9M964354.D 8260WTR.M Mon Jun 30 15:44:38 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964354.D Vial: 8
Acq On : 26 Jun 2014 18:50 Operator: ADC
Sample : WG482030-08 50.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:36 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

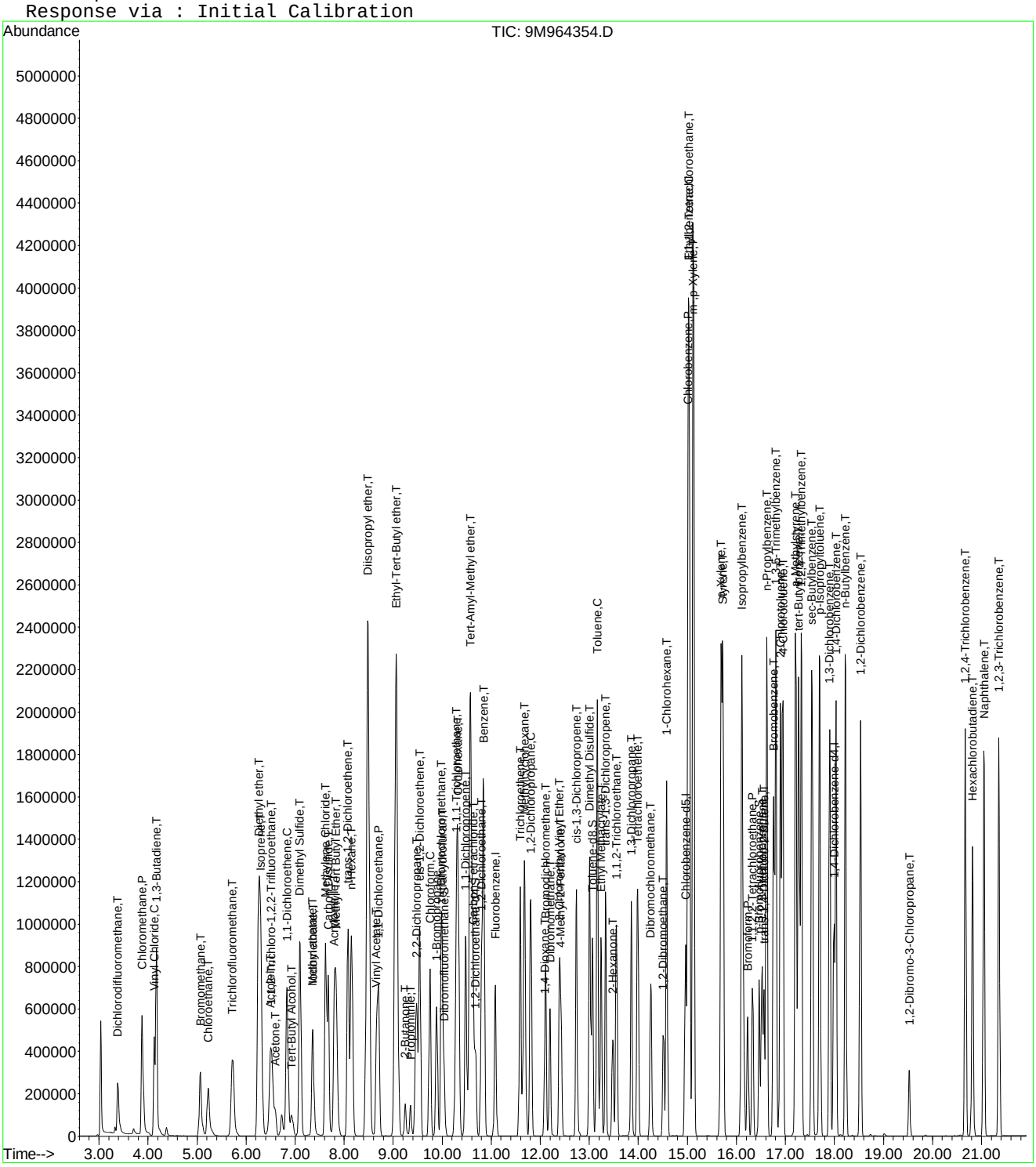
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	1,2-Dichloroethane	10.80	62	805521	52.8364	ug/L	100
46)	Benzene	10.85	78	1787209	51.6632	ug/L	100
47)	Trichloroethene	11.59	130	487546	49.2592	ug/L	100
48)	Methylcyclohexane	11.67	83	685932	53.1975	ug/L	100
49)	1,2-Dichloropropane	11.81	63	648534	52.1970	ug/L	100
50)	1,4-Dioxane	12.09	88	18363	202.2091	ug/L	100
51)	Bromodichloromethane	12.11	83	657568	53.5944	ug/L	100
52)	Dibromomethane	12.20	174	311262	54.7602	ug/L	100
53)	2-Chloroethyl Vinyl Ether	12.39	63	369515	54.6480	ug/L	100
54)	4-Methyl-2-Pentanone	12.42	58	266292	52.3687	ug/L	100
55)	cis-1,3-Dichloropropene	12.74	75	769123	53.4322	ug/L	100
56)	Dimethyl Disulfide	13.01	94	885888	57.5154	ug/L	100
59)	Toluene	13.16	91	1866411	52.7592	ug/L	100
60)	Ethyl Methacrylate	13.24	69	559341	54.9967	ug/L	100
61)	trans-1,3-Dichloropropene	13.33	75	716702	52.9828	ug/L	100
62)	1,1,2-Trichloroethane	13.56	97	400034	52.6186	ug/L	100
63)	2-Hexanone	13.47	43	435445	53.2895	ug/L	100
64)	1,3-Dichloropropane	13.86	76	697575	52.2083	ug/L	100
65)	Tetrachloroethene	13.99	164	388321	52.7928	ug/L	100
66)	Dibromochloromethane	14.25	129	494502	53.3832	ug/L	100
67)	1,2-Dibromoethane	14.51	107	417646	53.8563	ug/L	100
68)	1-Chlorohexane	14.58	91	568966	54.0864	ug/L	100
69)	Chlorobenzene	15.01	112	1224958	51.7587	ug/L	100
70)	1,1,1,2-Tetrachloroethane	15.03	131	464249	52.2667	ug/L	100
71)	Ethylbenzene	15.03	106	696952	53.4385	ug/L	100
72)	m-,p-Xylene	15.12	106	1663710	108.3454	ug/L	100
73)	o-Xylene	15.69	106	829857	52.2946	ug/L	100
74)	Styrene	15.73	104	1397512	55.8735	ug/L	100
75)	Bromoform	16.23	173	363113	53.4546	ug/L	100
76)	Isopropylbenzene	16.11	105	2064754	54.0659	ug/L	100
78)	1,1,2,2-Tetrachloroethane	16.33	83	464049	54.6940	ug/L	100
80)	1,2,3-Trichloropropane	16.52	110	154228	52.6203	ug/L	100
81)	trans-1,4-Dichloro-2-Buten	16.57	53	250881	56.0481	ug/L	100
82)	n-Propylbenzene	16.62	91	2519719	54.7874	ug/L	100
83)	Bromobenzene	16.76	156	556829	51.4231	ug/L	100
84)	1,3,5-Trimethylbenzene	16.80	105	1774469	54.1536	ug/L	100
85)	2-Chlorotoluene	16.90	91	1507292	48.8188	ug/L	100
86)	4-Chlorotoluene	16.95	91	1540882	57.5979	ug/L	100
87)	a-Methylstyrene	17.21	118	962498	56.2090	ug/L	100
88)	tert-Butylbenzene	17.27	134	392261	53.9517	ug/L	100
89)	1,2,4-Trimethylbenzene	17.32	105	1814476	53.4265	ug/L	100
90)	sec-Butylbenzene	17.54	105	2245581	54.5414	ug/L	100
91)	p-Isopropyltoluene	17.70	119	1850939	54.9391	ug/L	100
92)	1,3-Dichlorobenzene	17.90	146	1051565	52.6821	ug/L	100
93)	1,4-Dichlorobenzene	18.03	146	1060028	51.5319	ug/L	100
94)	n-Butylbenzene	18.22	91	1757640	55.1353	ug/L	100
95)	1,2-Dichlorobenzene	18.53	146	1057073	53.8158	ug/L	100
96)	1,2-Dibromo-3-Chloropropan	19.53	157	119470	55.5929	ug/L	100
97)	1,2,4-Trichlorobenzene	20.67	180	783505	53.0792	ug/L	100
98)	Hexachlorobutadiene	20.81	225	412436	55.4313	ug/L	100
99)	Naphthalene	21.05	128	1831109	57.0010	ug/L	100
100)	1,2,3-Trichlorobenzene	21.35	180	775440	53.7706	ug/L	100

(#) = qualifier out of range (m) = manual integration
9M964354.D 8260WTR.M Mon Jun 30 15:44:39 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964354.D Vial: 8
Acq On : 26 Jun 2014 18:50 Operator: ADC
Sample : WG482030-08 50.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964354.D 8260WTR.M Mon Jun 30 15:44:40 2014 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964355.D Vial: 9
Acq On : 26 Jun 2014 19:19 Operator: ADC
Sample : WG482030-09 100.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:41 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	847510	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	633556	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	364077	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	10.04	111	439603	48.9095 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 195.64%#		
43) 1,2-Dichloroethane-d4	10.68	65	594956	49.4930 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 197.96%#		
58) Toluene-d8	13.06	98	1536068	49.0739 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 196.28%#		
79) p-Bromofluorobenzene	16.46	95	622974	47.4258 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 189.72%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.38	85	745134	107.7615 ug/L	99
3) Chloromethane	3.88	50	1742885	91.5069 ug/L	100
4) Vinyl Chloride	4.13	62	1238321	98.3928 ug/L	100
5) 1,3-Butadiene	4.17	54	954269	104.1491 ug/L	99
6) Bromomethane	5.06	94	700476	90.6811 ug/L	99
7) Chloroethane	5.22	64	814701	103.4075 ug/L	99
8) Trichlorofluoromethane	5.72	101	1282829	98.6252 ug/L	100
9) Diethyl ether	6.26	59	2288320	195.6945 ug/L	99
10) Isoprene	6.30	67	1303765	104.6618 ug/L	99
11) Acrolein	6.49	56	227484	97.4445 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.51	101	734252	98.5172 ug/L	99
13) Acetone	6.60	43	339971	95.3221 ug/L	99
14) 1,1-Dichloroethene	6.83	61	1772813	98.5398 ug/L	98
15) Tert-Butyl Alcohol	6.93	59	518622	398.9978 ug/L	97
16) Dimethyl Sulfide	7.10	62	1432854	101.7194 ug/L	99
17) Iodomethane	7.36	142	1087818	100.4950 ug/L	100
18) Methyl acetate	7.35	43	1145139	98.1693 ug/L	99
19) Methylene Chloride	7.62	84	928628	97.6442 ug/L	99
20) Carbon Disulfide	7.67	76	2538576	100.0085 ug/L	99
21) Acrylonitrile	7.80	53	588073	103.0036 ug/L	99
22) Methyl Tert Butyl Ether	7.83	73	2548300	100.2090 ug/L	99
23) trans-1,2-Dichloroethene	8.08	61	1728710	97.4490 ug/L	99
24) n-Hexane	8.15	57	1854433	103.3443 ug/L	100
25) Diisopropyl ether	8.48	45	9236538	193.0222 ug/L	99
26) Vinyl Acetate	8.65	43	1590922	91.9033 ug/L	99
27) 1,1-Dichloroethane	8.70	63	2125547	96.6745 ug/L	100
28) Ethyl-Tert-Butyl ether	9.06	59	8417106	194.6240 ug/L	99
29) 2-Butanone	9.24	43	556135	97.2383 ug/L	98
30) Propionitrile	9.36	54	412858	204.0630 ug/L	99
31) 2,2-Dichloropropane	9.47	77	1301022	95.9739 ug/L	99
32) cis-1,2-Dichloroethene	9.54	96	978503	95.9402 ug/L	99
33) Chloroform	9.75	83	1570479	94.5150 ug/L	99
34) 1-Bromopropane	9.88	122	159304	105.8232 ug/L	94
35) Bromochloromethane	9.99	130	598653	96.0747 ug/L	98
36) Tetrahydrofuran	10.01	42	772769	199.8150 ug/L	100
38) 1,1,1-Trichloroethane	10.29	97	1427275	100.0112 ug/L	99
39) Cyclohexane	10.32	56	2462401	103.2755 ug/L	100
40) 1,1-Dichloropropene	10.47	75	1164334	97.3317 ug/L	99
41) Tert-Amyl-Methyl ether	10.58	73	5013581	194.7511 ug/L	99
42) Carbon Tetrachloride	10.63	117	1254276	99.9345 ug/L	99

(#) = qualifier out of range (m) = manual integration
9M964355.D 8260WTR.M Mon Jun 30 15:44:43 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964355.D Vial: 9
Acq On : 26 Jun 2014 19:19 Operator: ADC
Sample : WG482030-09 100.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:41 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

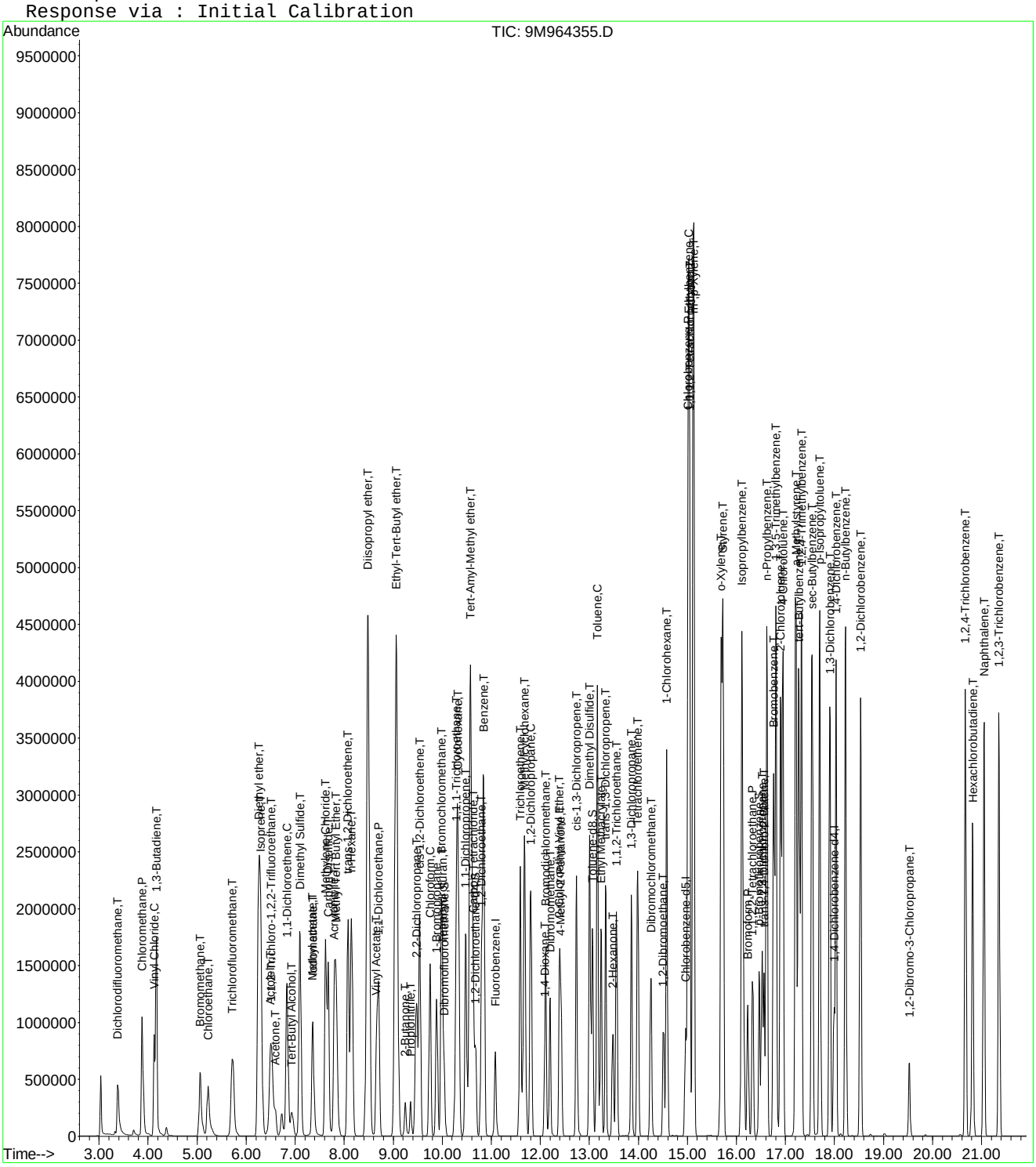
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	1,2-Dichloroethane	10.79	62	1568220	98.8900	ug/L	100
46)	Benzene	10.85	78	3412539	94.8359	ug/L	99
47)	Trichloroethene	11.59	130	957167	92.9712	ug/L	99
48)	Methylcyclohexane	11.67	83	1402431	104.5637	ug/L	99
49)	1,2-Dichloropropane	11.81	63	1268465	98.1478	ug/L	99
50)	1,4-Dioxane	12.09	88	39561	418.8065	ug/L	98
51)	Bromodichloromethane	12.11	83	1281076	100.3789	ug/L	100
52)	Dibromomethane	12.20	174	620015	104.8649	ug/L	99
53)	2-Chloroethyl Vinyl Ether	12.39	63	725940	103.2125	ug/L	99
54)	4-Methyl-2-Pentanone	12.42	58	534242	101.0045	ug/L	100
55)	cis-1,3-Dichloropropene	12.74	75	1500863	100.2392	ug/L	100
56)	Dimethyl Disulfide	13.01	94	1777750	110.9597	ug/L	98
59)	Toluene	13.16	91	3552001	94.6940	ug/L	99
60)	Ethyl Methacrylate	13.23	69	1121215	103.9699	ug/L	99
61)	trans-1,3-Dichloropropene	13.33	75	1407984	98.1640	ug/L	98
62)	1,1,2-Trichloroethane	13.56	97	780775	96.8561	ug/L	100
63)	2-Hexanone	13.47	43	864384	99.7639	ug/L	100
64)	1,3-Dichloropropane	13.86	76	1354173	95.5832	ug/L	100
65)	Tetrachloroethene	13.99	164	767104	98.3551	ug/L	99
66)	Dibromochloromethane	14.26	129	981858	99.9642	ug/L	99
67)	1,2-Dibromoethane	14.51	107	822912	100.0784	ug/L	99
68)	1-Chlorohexane	14.58	91	1157328	103.7568	ug/L	100
69)	Chlorobenzene	15.01	112	2378905	94.7977	ug/L	99
70)	1,1,1,2-Tetrachloroethane	15.04	131	926703	98.3951	ug/L	98
71)	Ethylbenzene	15.03	106	1343806	97.1732	ug/L	99
72)	m-,p-Xylene	15.13	106	3156451	193.8610	ug/L	99
73)	o-Xylene	15.69	106	1636153	97.2380	ug/L	98
74)	Styrene	15.73	104	2742032	103.3908	ug/L	99
75)	Bromoform	16.23	173	747789	103.8201	ug/L	99
76)	Isopropylbenzene	16.11	105	4000396	98.7908	ug/L	100
78)	1,1,2,2-Tetrachloroethane	16.33	83	923773	99.6791	ug/L	98
80)	1,2,3-Trichloropropane	16.52	110	319628	99.8385	ug/L	92
81)	trans-1,4-Dichloro-2-Buten	16.56	53	500575	102.3824	ug/L	98
82)	n-Propylbenzene	16.62	91	4832002	96.1876	ug/L	98
83)	Bromobenzene	16.76	156	1116210	94.3725	ug/L	99
84)	1,3,5-Trimethylbenzene	16.80	105	3494523	97.6360	ug/L	100
85)	2-Chlorotoluene	16.89	91	3363693	99.7400	ug/L	100
86)	4-Chlorotoluene	16.95	91	2611869	89.3824	ug/L	88
87)	a-Methylstyrene	17.22	118	1998911	106.8715	ug/L	99
88)	tert-Butylbenzene	17.28	134	772170	97.2312	ug/L	98
89)	1,2,4-Trimethylbenzene	17.33	105	3543483	95.5210	ug/L	100
90)	sec-Butylbenzene	17.55	105	4383049	97.4623	ug/L	99
91)	p-Isopropyltoluene	17.70	119	3651423	99.2235	ug/L	100
92)	1,3-Dichlorobenzene	17.91	146	2108047	96.6874	ug/L	98
93)	1,4-Dichlorobenzene	18.03	146	2138006	95.1549	ug/L	100
94)	n-Butylbenzene	18.23	91	3432634	98.5802	ug/L	99
95)	1,2-Dichlorobenzene	18.53	146	2110946	98.3887	ug/L	99
96)	1,2-Dibromo-3-Chloropropan	19.53	157	250947	106.9069	ug/L	100
97)	1,2,4-Trichlorobenzene	20.67	180	1614942	100.1619	ug/L	100
98)	Hexachlorobutadiene	20.82	225	846227	104.1234	ug/L	100
99)	Naphthalene	21.05	128	3659805	104.3012	ug/L	99
100)	1,2,3-Trichlorobenzene	21.35	180	1558513	98.9395	ug/L	99

(#) = qualifier out of range (m) = manual integration
9M964355.D 8260WTR.M Mon Jun 30 15:44:44 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964355.D Vial: 9
Acq On : 26 Jun 2014 19:19 Operator: ADC
Sample : WG482030-09 100.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964355.D 8260WTR.M Mon Jun 30 15:44:45 2014 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964356.D Vial: 10
Acq On : 26 Jun 2014 19:48 Operator: ADC
Sample : WG482030-10 200.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:47 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	870252	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	682783	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	391599	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	10.04	111	893683	96.8313 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 387.32%#		
43) 1,2-Dichloroethane-d4	10.68	65	1201005	97.2979 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 389.20%#		
58) Toluene-d8	13.07	98	3102160	91.9617 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 367.84%#		
79) p-Bromofluorobenzene	16.46	95	1334307	94.4393 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 377.76%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.38	85	1541587	217.1186 ug/L	98
3) Chloromethane	3.88	50	3448228	176.3116 ug/L	99
4) Vinyl Chloride	4.12	62	2571538	198.9861 ug/L	100
5) 1,3-Butadiene	4.16	54	1837754	197.1122 ug/L	99
6) Bromomethane	5.05	94	1488976	187.7202 ug/L	100
7) Chloroethane	5.22	64	1706354	210.9224 ug/L	99
8) Trichlorofluoromethane	5.72	101	2664584	199.5025 ug/L	100
10) Isoprene	6.29	67	2592326	202.6649 ug/L	100
11) Acrolein	6.51	56	2082	0.8685 ug/L	79
12) 1,1,2-Trichloro-1,2,2-Trif	6.51	101	1539577	201.1724 ug/L	98
13) Acetone	6.59	43	675279	184.3889 ug/L	97
14) 1,1-Dichloroethene	6.83	61	3658980	198.0655 ug/L	99
15) Tert-Butyl Alcohol	6.83	59	122034	91.4324 ug/L #	60
16) Dimethyl Sulfide	7.10	62	2845949	196.7564 ug/L	100
17) Iodomethane	7.36	142	2245797	200.9912 ug/L	100
18) Methyl acetate	7.36	43	2205602	184.1384 ug/L	99
19) Methylene Chloride	7.62	84	1913965	195.9920 ug/L	97
20) Carbon Disulfide	7.67	76	4986184	191.2999 ug/L	99
21) Acrylonitrile	7.83	53	71003	12.1115 ug/L #	32
22) Methyl Tert Butyl Ether	7.83	73	5195062	198.9513 ug/L	98
23) trans-1,2-Dichloroethene	8.07	61	3542979	194.5019 ug/L	99
24) n-Hexane	8.15	57	3609374	195.8877 ug/L	99
25) Diisopropyl ether	8.50	45	6669	0.1357 ug/L #	83
26) Vinyl Acetate	8.65	43	3154810	177.4824 ug/L	99
27) 1,1-Dichloroethane	8.69	63	4310095	190.9096 ug/L	99
29) 2-Butanone	9.24	43	1123130	191.2436 ug/L	98
30) Propionitrile	9.33	54	660	0.3177 ug/L #	59
31) 2,2-Dichloropropane	9.47	77	2664058	191.3867 ug/L	98
32) cis-1,2-Dichloroethene	9.54	96	2018371	192.7255 ug/L	98
33) Chloroform	9.75	83	3239912	189.8898 ug/L	99
34) 1-Bromopropane	9.89	122	326859	211.4533 ug/L	95
35) Bromochloromethane	9.99	130	1248687	195.1583 ug/L	95
36) Tetrahydrofuran	10.01	42	1088	0.2740 ug/L #	49
38) 1,1,1-Trichloroethane	10.29	97	2987653	203.8782 ug/L	99
39) Cyclohexane	10.32	56	4871724	198.9854 ug/L	99
40) 1,1-Dichloropropene	10.48	75	2399641	195.3543 ug/L	100
42) Carbon Tetrachloride	10.63	117	2638784	204.7509 ug/L	100
45) 1,2-Dichloroethane	10.80	62	3198261	196.4079 ug/L	99
46) Benzene	10.84	78	6773387	183.3162 ug/L	97
47) Trichloroethene	11.59	130	1947213	184.1934 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964356.D Vial: 10
Acq On : 26 Jun 2014 19:48 Operator: ADC
Sample : WG482030-10 200.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:47 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

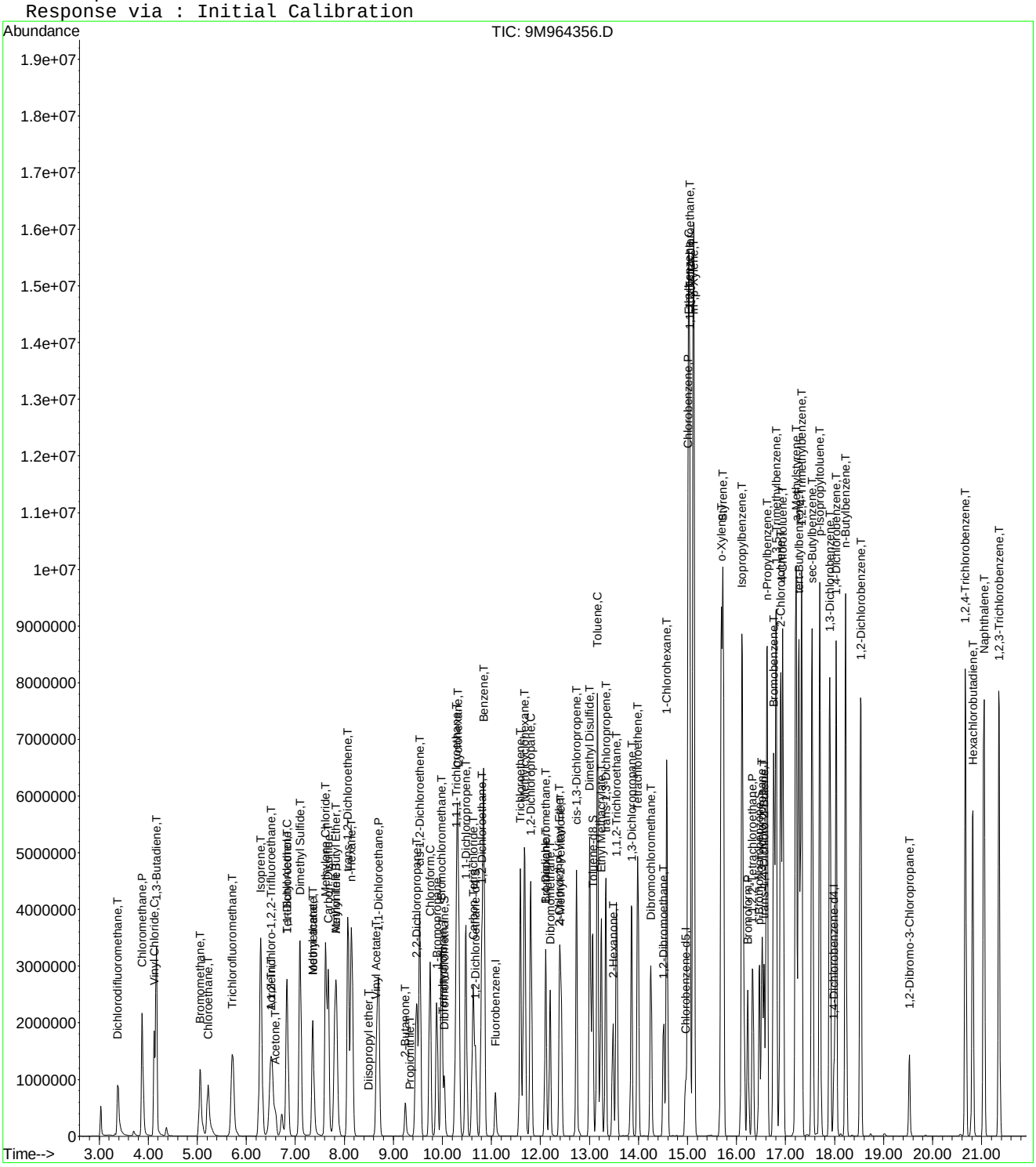
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	Methylcyclohexane	11.67	83	2744983	199.3146	ug/L		99
49)	1,2-Dichloropropane	11.81	63	2597118	195.7013	ug/L		99
50)	1,4-Dioxane	12.11	88	2799	28.8568	ug/L	#	1
51)	Bromodichloromethane	12.11	83	2662710	203.1848	ug/L		100
52)	Dibromomethane	12.20	174	1288071	212.1620	ug/L		98
53)	2-Chloroethyl Vinyl Ether	12.38	63	1485082	205.6279	ug/L		100
54)	4-Methyl-2-Pentanone	12.42	58	1127398	207.5773	ug/L		100
55)	cis-1,3-Dichloropropene	12.74	75	3077890	200.1933	ug/L		99
56)	Dimethyl Disulfide	13.01	94	3577894	217.4813	ug/L		98
59)	Toluene	13.16	91	7032720	173.9703	ug/L		97
60)	Ethyl Methacrylate	13.24	69	2309200	198.6931	ug/L		99
61)	trans-1,3-Dichloropropene	13.34	75	2889339	186.9199	ug/L		99
62)	1,1,2-Trichloroethane	13.55	97	1620084	186.4837	ug/L		100
63)	2-Hexanone	13.48	43	1826962	195.6584	ug/L		98
64)	1,3-Dichloropropane	13.86	76	2746100	179.8565	ug/L		99
65)	Tetrachloroethene	13.99	164	1600611	190.4279	ug/L		99
66)	Dibromochloromethane	14.26	129	2083770	196.8556	ug/L		99
67)	1,2-Dibromoethane	14.51	107	1727827	194.9798	ug/L		100
68)	1-Chlorohexane	14.58	91	2328801	193.7292	ug/L		100
69)	Chlorobenzene	15.01	112	4793292	177.2380	ug/L		97
70)	1,1,1,2-Tetrachloroethane	15.04	131	1923384	189.4965	ug/L		99
71)	Ethylbenzene	15.03	106	2742278	184.0025	ug/L		93
72)	m-,p-Xylene	15.12	106	6333192	360.9245	ug/L		88
73)	o-Xylene	15.69	106	3407729	187.9229	ug/L		95
74)	Styrene	15.72	104	5645386	197.5174	ug/L		96
75)	Bromoform	16.23	173	1637377	210.9373	ug/L		100
76)	Isopropylbenzene	16.11	105	8019798	183.7720	ug/L		97
78)	1,1,2,2-Tetrachloroethane	16.32	83	2070884	207.7526	ug/L		98
80)	1,2,3-Trichloropropane	16.52	110	676655	196.5044	ug/L		94
81)	trans-1,4-Dichloro-2-Buten	16.56	53	1064223	202.3674	ug/L		99
82)	n-Propylbenzene	16.62	91	9459494	175.0699	ug/L		94
83)	Bromobenzene	16.76	156	2362512	185.7057	ug/L		100
84)	1,3,5-Trimethylbenzene	16.81	105	7162167	186.0451	ug/L		98
85)	2-Chlorotoluene	16.90	91	6596849	181.8616	ug/L		98
86)	4-Chlorotoluene	16.94	91	5581454	177.5822	ug/L		86
87)	a-Methylstyrene	17.21	118	4032084	200.4241	ug/L		96
88)	tert-Butylbenzene	17.28	134	1635635	191.4833	ug/L		97
89)	1,2,4-Trimethylbenzene	17.33	105	7181797	179.9921	ug/L		97
90)	sec-Butylbenzene	17.54	105	8712118	180.1092	ug/L		96
91)	p-Isopropyltoluene	17.70	119	7326256	185.0913	ug/L		97
92)	1,3-Dichlorobenzene	17.91	146	4371248	186.4004	ug/L		97
93)	1,4-Dichlorobenzene	18.03	146	4404906	182.2680	ug/L		97
94)	n-Butylbenzene	18.23	91	6930732	185.0517	ug/L		97
95)	1,2-Dichlorobenzene	18.54	146	4342343	188.1672	ug/L		97
96)	1,2-Dibromo-3-Chloropropan	19.53	157	545321	215.9870	ug/L		98
97)	1,2,4-Trichlorobenzene	20.67	180	3452550	199.0843	ug/L		99
98)	Hexachlorobutadiene	20.82	225	1828382	209.1606	ug/L		100
99)	Naphthalene	21.05	128	7381882	195.5916	ug/L		97
100)	1,2,3-Trichlorobenzene	21.36	180	3362519	198.4613	ug/L		99

(#) = qualifier out of range (m) = manual integration
9M964356.D 8260WTR.M Mon Jun 30 15:44:49 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964356.D Vial: 10
Acq On : 26 Jun 2014 19:48 Operator: ADC
Sample : WG482030-10 200.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964356.D 8260WTR.M Mon Jun 30 15:44:50 2014 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964357.D Vial: 11
Acq On : 26 Jun 2014 20:17 Operator: ADC
Sample : WG482030-11 300.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:52 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	839235	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	682450	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	417147	25.00 ug/L	0.00

System Monitoring Compounds					
37) Dibromofluoromethane	10.04	111	1299059	145.9562 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 583.84%#		
43) 1,2-Dichloroethane-d4	10.68	65	1721936	144.6563 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 578.64%#		
58) Toluene-d8	13.07	98	4517458	133.9827 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 535.92%#		
79) p-Bromofluorobenzene	16.46	95	2060640	136.9151 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 547.68%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.38	85	2277073	332.5579 ug/L	97
3) Chloromethane	3.88	50	4925942	261.1774 ug/L	98
4) Vinyl Chloride	4.12	62	3196936	256.5224 ug/L	99
5) 1,3-Butadiene	4.17	54	2561300	285.7766 ug/L	100
6) Bromomethane	5.05	94	2213885	289.4276 ug/L	99
7) Chloroethane	5.21	64	2541219	325.7295 ug/L	99
8) Trichlorofluoromethane	5.72	101	3851505	299.0272 ug/L	99
9) Diethyl ether	6.25	59	3289015	284.0462 ug/L	97
10) Isoprene	6.29	67	3709863	300.7518 ug/L	99
11) Acrolein	6.49	56	327087	141.4918 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.51	101	2231659	302.3822 ug/L	97
13) Acetone	6.60	43	967786	274.0263 ug/L	96
14) 1,1-Dichloroethene	6.82	61	5247246	294.5382 ug/L	98
15) Tert-Butyl Alcohol	6.95	59	878622	682.6262 ug/L	95
16) Dimethyl Sulfide	7.09	62	4123904	295.6459 ug/L	97
17) Iodomethane	7.36	142	3255809	301.6257 ug/L	100
18) Methyl acetate	7.36	43	3197647	276.8275 ug/L	99
19) Methylene Chloride	7.62	84	2800264	297.3479 ug/L	93
20) Carbon Disulfide	7.67	76	7159894	284.8488 ug/L	98
21) Acrylonitrile	7.79	53	902716	159.6738 ug/L	98
22) Methyl Tert Butyl Ether	7.83	73	7367727	292.5843 ug/L	99
23) trans-1,2-Dichloroethene	8.07	61	5088065	289.6472 ug/L	98
24) n-Hexane	8.15	57	5125726	288.4643 ug/L	98
25) Diisopropyl ether	8.49	45	12573826	265.3546 ug/L	97
26) Vinyl Acetate	8.65	43	4416991	257.6737 ug/L	98
27) 1,1-Dichloroethane	8.69	63	6116787	280.9478 ug/L	98
28) Ethyl-Tert-Butyl ether	9.06	59	11872558	277.2292 ug/L	97
29) 2-Butanone	9.24	43	1644378	290.3487 ug/L	96
30) Propionitrile	9.36	54	630832	314.8753 ug/L	99
31) 2,2-Dichloropropane	9.47	77	3786900	282.1067 ug/L	98
32) cis-1,2-Dichloroethene	9.54	96	2866063	283.7823 ug/L	97
33) Chloroform	9.75	83	4586215	278.7303 ug/L	98
34) 1-Bromopropane	9.88	122	474576	318.3620 ug/L	94
35) Bromochloromethane	9.99	130	1770770	286.9836 ug/L	92
36) Tetrahydrofuran	10.01	42	1100417	287.3406 ug/L	97
38) 1,1,1-Trichloroethane	10.29	97	4292163	303.7234 ug/L	98
39) Cyclohexane	10.32	56	6846462	289.9787 ug/L	99
40) 1,1-Dichloropropene	10.48	75	3462142	292.2692 ug/L	100
41) Tert-Amyl-Methyl ether	10.58	73	7237891	283.9260 ug/L	99
42) Carbon Tetrachloride	10.63	117	3797748	305.5692 ug/L	100

(#) = qualifier out of range (m) = manual integration
9M964357.D 8260WTR.M Mon Jun 30 15:44:54 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964357.D Vial: 11
Acq On : 26 Jun 2014 20:17 Operator: ADC
Sample : WG482030-11 300.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44:52 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

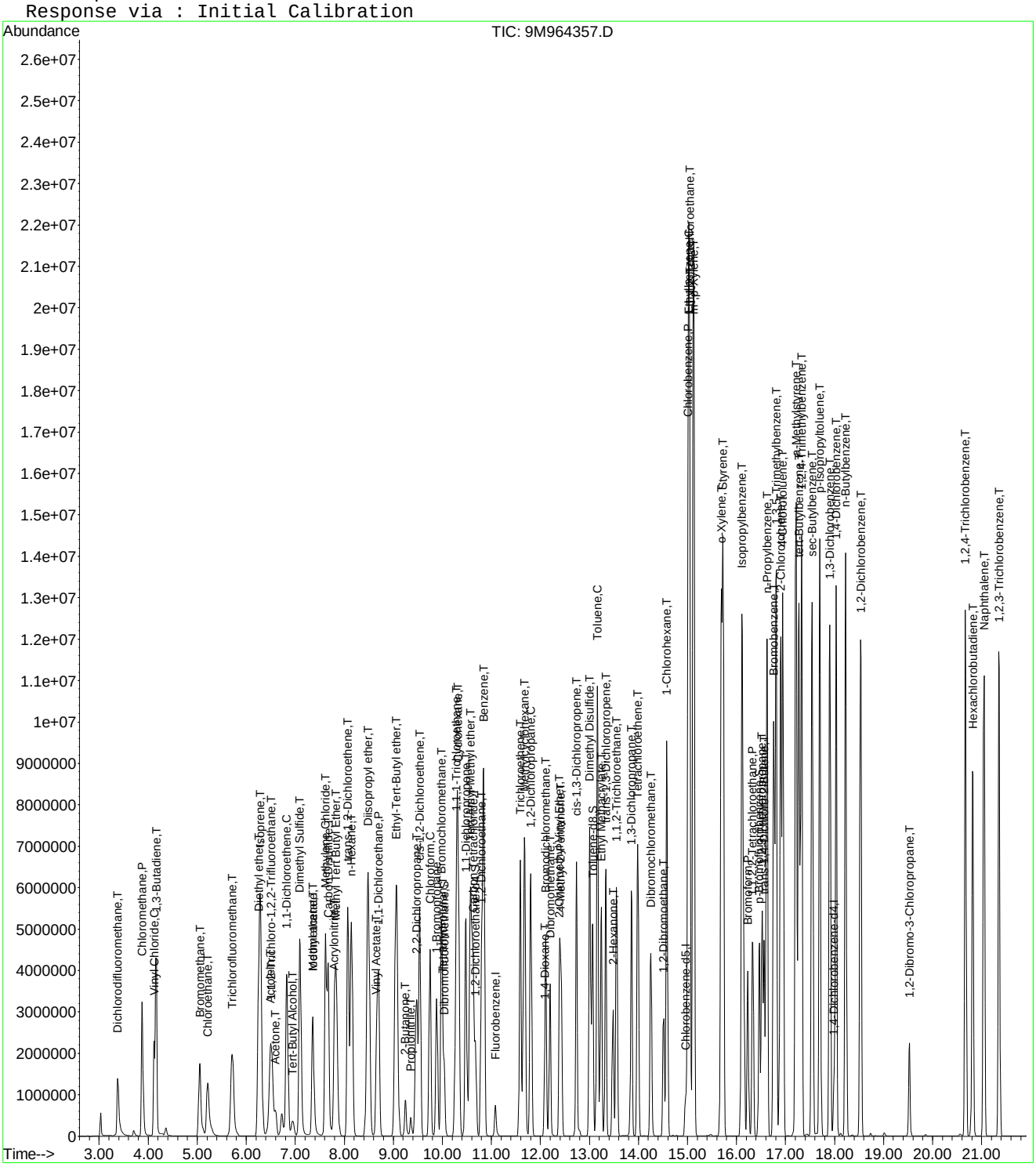
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	1,2-Dichloroethane	10.79	62	4515157	287.5275 ug/L	99
46)	Benzene	10.84	78	9270193	260.1628 ug/L	95
47)	Trichloroethene	11.59	130	2790647	273.7329 ug/L	99
48)	Methylcyclohexane	11.67	83	3930877	295.9718 ug/L	100
49)	1,2-Dichloropropane	11.81	63	3722389	290.8608 ug/L	98
50)	1,4-Dioxane	12.09	88	68717	734.6350 ug/L	92
51)	Bromodichloromethane	12.11	83	3812386	301.6656 ug/L	99
52)	Dibromomethane	12.20	174	1856189	317.0381 ug/L	97
53)	2-Chloroethyl Vinyl Ether	12.39	63	2142270	307.5864 ug/L	98
54)	4-Methyl-2-Pentanone	12.42	58	1711783	326.8231 ug/L	99
55)	cis-1,3-Dichloropropene	12.74	75	4394375	296.3841 ug/L	98
56)	Dimethyl Disulfide	13.01	94	5107745	321.9475 ug/L	97
59)	Toluene	13.16	91	9655825	238.9753 ug/L	95
60)	Ethyl Methacrylate	13.24	69	3413371	293.8438 ug/L	98
61)	trans-1,3-Dichloropropene	13.34	75	4157006	269.0602 ug/L	98
62)	1,1,2-Trichloroethane	13.55	97	2356187	271.3469 ug/L	100
63)	2-Hexanone	13.48	43	2771647	296.9743 ug/L	96
64)	1,3-Dichloropropane	13.85	76	3989758	261.4377 ug/L	97
65)	Tetrachloroethene	13.99	164	2337402	278.2211 ug/L	98
66)	Dibromochloromethane	14.26	129	3089726	292.0316 ug/L	100
67)	1,2-Dibromoethane	14.52	107	2519858	284.4967 ug/L	99
68)	1-Chlorohexane	14.58	91	3396427	282.6811 ug/L	99
69)	Chlorobenzene	15.01	112	6785124	251.0110 ug/L	95
70)	1,1,1,2-Tetrachloroethane	15.04	131	2864058	282.3117 ug/L	98
71)	Ethylbenzene	15.03	106	3933112	264.0343 ug/L	84
72)	m-,p-Xylene	15.13	106	8723536	497.3913 ug/L	79
73)	o-Xylene	15.69	106	4937967	272.4424 ug/L	90
74)	Styrene	15.73	104	8054120	281.9302 ug/L	92
75)	Bromoform	16.23	173	2521453	324.9880 ug/L	99
76)	Isopropylbenzene	16.11	105	11121246	254.9654 ug/L	93
78)	1,1,2,2-Tetrachloroethane	16.32	83	3282339	309.1196 ug/L	97
80)	1,2,3-Trichloropropane	16.52	110	1072551	292.3987 ug/L	91
81)	trans-1,4-Dichloro-2-Buten	16.56	53	1653099	295.0933 ug/L	98
82)	n-Propylbenzene	16.62	91	12691778	220.5050 ug/L	89
83)	Bromobenzene	16.76	156	3552040	262.1088 ug/L	100
84)	1,3,5-Trimethylbenzene	16.81	105	10127558	246.9625 ug/L	95
85)	2-Chlorotoluene	16.90	91	9434361	244.1572 ug/L	96
86)	4-Chlorotoluene	16.95	91	7981287	238.3842 ug/L	83
87)	a-Methylstyrene	17.21	118	6048066	282.2210 ug/L	94
88)	tert-Butylbenzene	17.28	134	2458394	270.1770 ug/L	96
89)	1,2,4-Trimethylbenzene	17.33	105	10192810	239.8097 ug/L	93
90)	sec-Butylbenzene	17.54	105	12113908	235.0980 ug/L	92
91)	p-Isopropyltoluene	17.70	119	10470764	248.3332 ug/L	93
92)	1,3-Dichlorobenzene	17.91	146	6542992	261.9210 ug/L	94
93)	1,4-Dichlorobenzene	18.03	146	6612778	256.8681 ug/L	95
94)	n-Butylbenzene	18.23	91	9981826	250.1938 ug/L	94
95)	1,2-Dichlorobenzene	18.54	146	6554752	266.6419 ug/L	95
96)	1,2-Dibromo-3-Chloropropan	19.53	157	871314	323.9683 ug/L	98
97)	1,2,4-Trichlorobenzene	20.67	180	5266402	285.0779 ug/L	99
98)	Hexachlorobutadiene	20.82	225	2816102	302.4223 ug/L	99
99)	Naphthalene	21.05	128	10333240	257.0231 ug/L	93
100)	1,2,3-Trichlorobenzene	21.36	180	5018736	278.0725 ug/L	99

(#) = qualifier out of range (m) = manual integration
9M964357.D 8260WTR.M Mon Jun 30 15:44:54 2014 Page 2

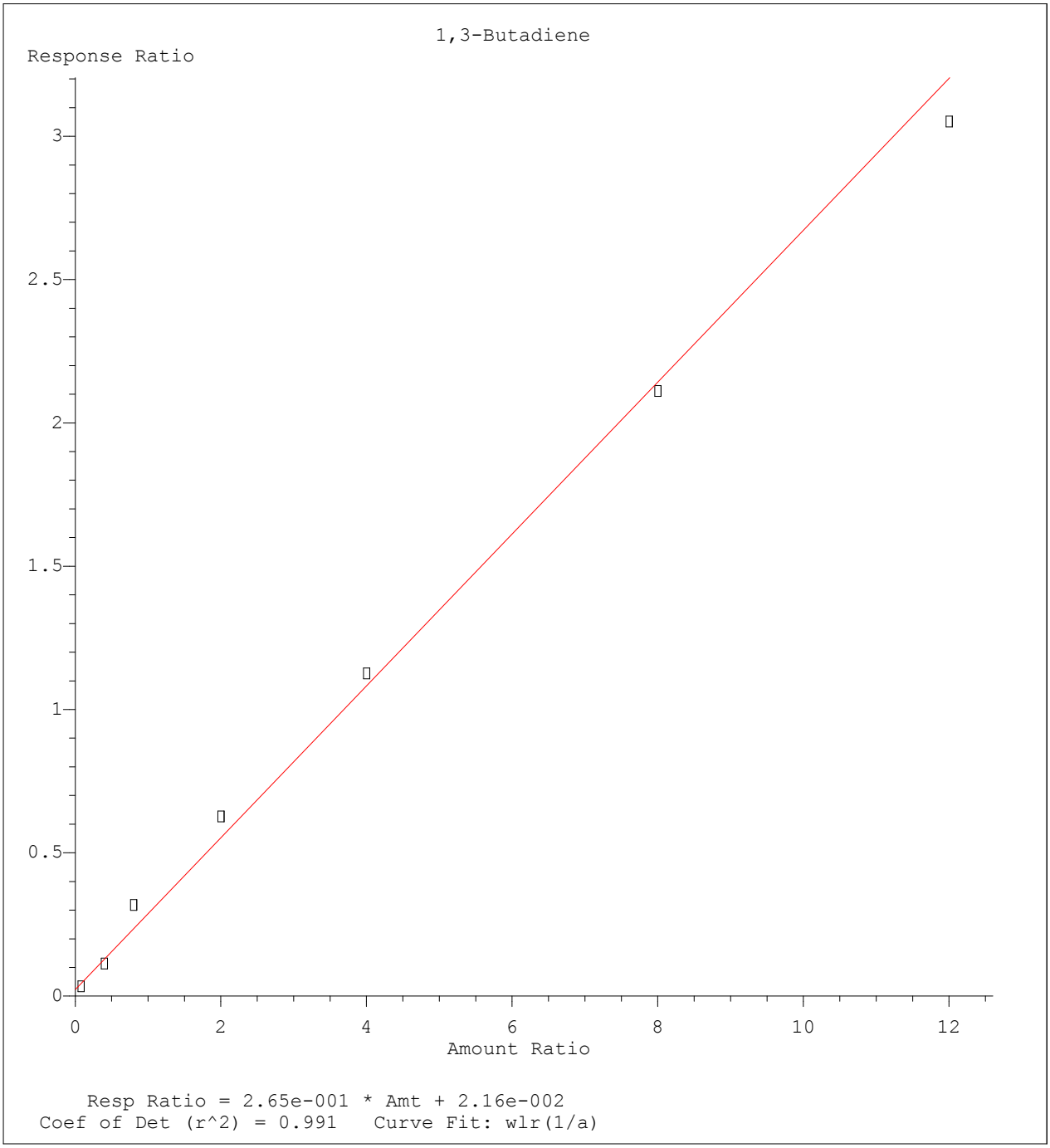
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964357.D Vial: 11
Acq On : 26 Jun 2014 20:17 Operator: ADC
Sample : WG482030-11 300.0ug/L STD 8260 Inst : HPMS9
Misc : 1,1 STD65039 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:44 2014 Quant Results File: 8260WTR.RES

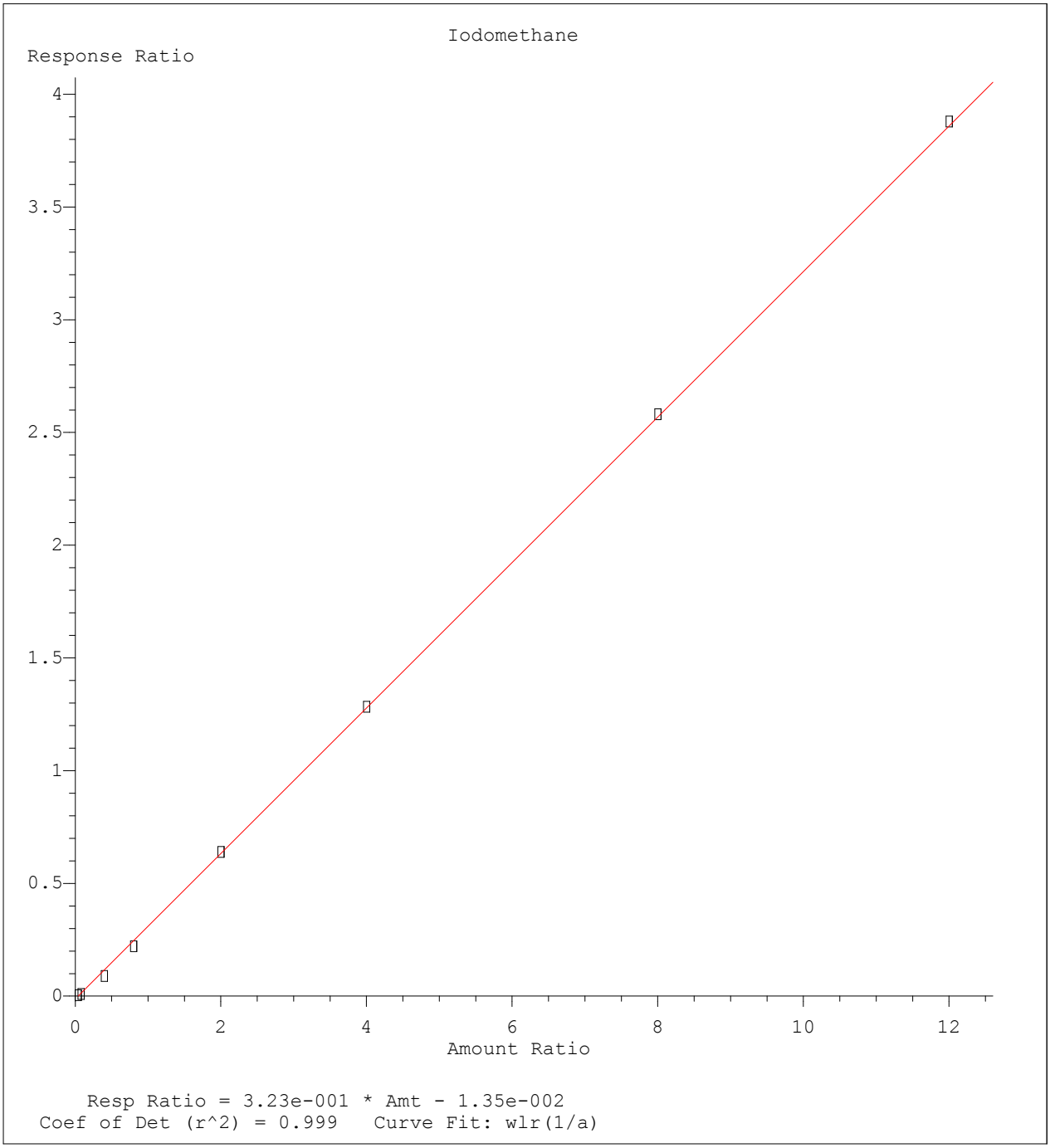
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964357.D 8260WTR.M Mon Jun 30 15:44:56 2014 Page 3



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Fri Jun 27 11:04:25 2014



Resp Ratio = 3.23e-001 * Amt - 1.35e-002
Coef of Det (r^2) = 0.999 Curve Fit: wlr(1/a)

Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Fri Jun 27 11:04:25 2014

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964359.D Vial: 13
Acq On : 26 Jun 2014 21:16 Operator: ADC
Sample : WG482030-12 50.0ug/L ALTSRC 8260 Inst : HPMS9
Misc : 1,1 STD65074 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:45:04 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	836427	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	626128	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	384253	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	10.04	111	231781	26.1293 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 104.52%		
43) 1,2-Dichloroethane-d4	10.68	65	294619	24.8334 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 99.32%		
58) Toluene-d8	13.06	98	847415	27.3942 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 109.56%		
79) p-Bromofluorobenzene	16.46	95	336791	24.2930 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.16%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.38	85	537319	78.7369 ug/L	96
3) Chloromethane	3.88	50	960769	51.1118 ug/L	100
4) Vinyl Chloride	4.12	62	627844	50.5474 ug/L	100
5) 1,3-Butadiene	4.17	54	409614	44.1482 ug/L	99
6) Bromomethane	5.04	94	390533	51.2269 ug/L	100
7) Chloroethane	5.21	64	436892	56.1881 ug/L	97
8) Trichlorofluoromethane	5.72	101	697639	54.3459 ug/L	99
9) Diethyl ether	6.25	59	1087032	94.1935 ug/L	96
10) Isoprene	6.29	67	647010	52.6280 ug/L	97
11) Acrolein	6.50	56	135537	58.8276 ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.50	101	381111	51.8126 ug/L	99
13) Acetone	6.61	43	155742	44.2460 ug/L	92
14) 1,1-Dichloroethene	6.82	61	827612	46.6114 ug/L	98
15) Tert-Butyl Alcohol	6.95	59	265393	206.8835 ug/L	97
16) Dimethyl Sulfide	7.09	62	720106	51.7983 ug/L	95
17) Iodomethane	7.36	142	429298	40.8136 ug/L	97
18) Methyl acetate	7.36	43	529644	46.0064 ug/L	98
19) Methylene Chloride	7.62	84	472426	50.3333 ug/L	89
20) Carbon Disulfide	7.67	76	1127786	45.0184 ug/L	100
21) Acrylonitrile	7.79	53	271805	48.2387 ug/L	100
22) Methyl Tert Butyl Ether	7.83	73	1254457	49.9837 ug/L	98
23) trans-1,2-Dichloroethene	8.07	61	867443	49.5465 ug/L	99
24) n-Hexane	8.15	57	816248	46.0908 ug/L	94
25) Diisopropyl ether	8.49	45	4282940	90.6894 ug/L	98
26) Vinyl Acetate	8.65	43	1030906	60.3418 ug/L	98
27) 1,1-Dichloroethane	8.69	63	1006908	46.4032 ug/L	100
28) Ethyl-Tert-Butyl ether	9.06	59	4070249	95.3611 ug/L	99
29) 2-Butanone	9.24	43	260364	46.1269 ug/L	96
30) Propionitrile	9.36	54	197182	98.7524 ug/L	99
31) 2,2-Dichloropropane	9.47	77	575991	43.0527 ug/L	99
32) cis-1,2-Dichloroethene	9.54	96	481130	47.7989 ug/L	96
33) Chloroform	9.75	83	764107	46.5950 ug/L	100
34) 1-Bromopropane	9.88	122	93532	62.9551 ug/L	94
35) Bromochloromethane	9.99	130	291347	47.3763 ug/L	89
36) Tetrahydrofuran	10.01	42	340919	89.3195 ug/L	96
38) 1,1,1-Trichloroethane	10.29	97	707879	50.2593 ug/L	95
39) Cyclohexane	10.32	56	1163878	49.4610 ug/L	98
40) 1,1-Dichloropropene	10.47	75	572860	48.5224 ug/L	100
41) Tert-Amyl-Methyl ether	10.58	73	2468072	97.1419 ug/L	98
42) Carbon Tetrachloride	10.63	117	617328	49.8374 ug/L	97

(#) = qualifier out of range (m) = manual integration
9M964359.D 8260WTR.M Mon Jun 30 15:45:06 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964359.D Vial: 13
Acq On : 26 Jun 2014 21:16 Operator: ADC
Sample : WG482030-12 50.0ug/L ALTSRC 8260 Inst : HPMS9
Misc : 1,1 STD65074 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:45:04 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

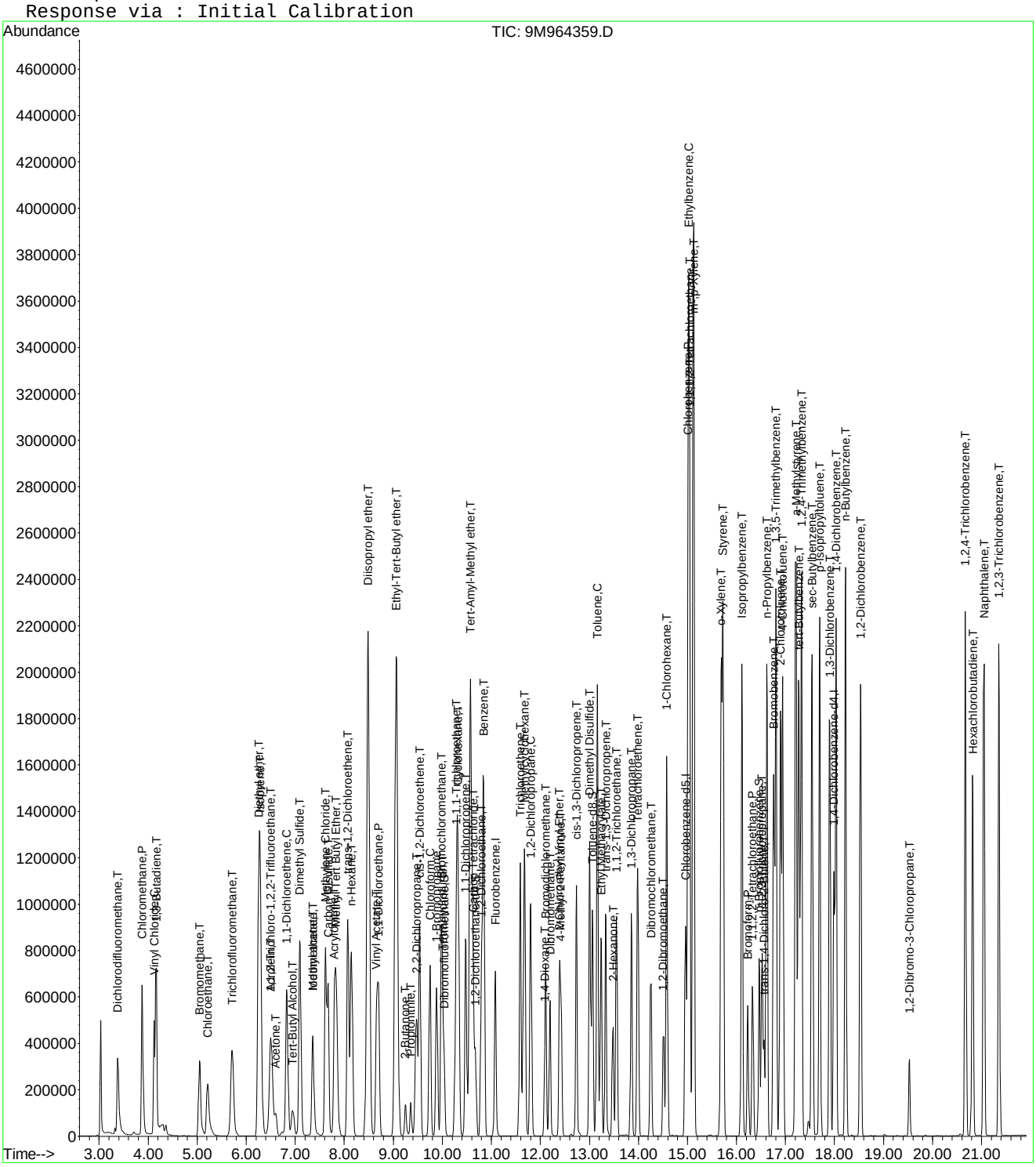
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	1,2-Dichloroethane	10.79	62	744137	47.5461 ug/L		97
46)	Benzene	10.85	78	1724502	48.5597 ug/L		99
47)	Trichloroethene	11.59	130	498400	49.0519 ug/L		98
48)	Methylcyclohexane	11.67	83	689744	52.1080 ug/L		97
49)	1,2-Dichloropropane	11.81	63	608997	47.7457 ug/L		100
50)	1,4-Dioxane	12.09	88	21151	226.8788 ug/L		95
51)	Bromodichloromethane	12.11	83	597442	47.4330 ug/L		100
52)	Dibromomethane	12.20	174	303350	51.9863 ug/L		94
53)	2-Chloroethyl Vinyl Ether	12.39	63	343416	49.4731 ug/L		99
54)	4-Methyl-2-Pentanone	12.42	58	261069	50.0121 ug/L		98
55)	cis-1,3-Dichloropropene	12.74	75	732317	49.5579 ug/L		99
56)	Dimethyl Disulfide	13.01	94	877675	55.5067 ug/L		100
59)	Toluene	13.16	91	1813269	48.9140 ug/L		100
60)	Ethyl Methacrylate	13.24	69	567803	53.2768 ug/L		100
61)	trans-1,3-Dichloropropene	13.34	75	631148	44.5254 ug/L		99
62)	1,1,2-Trichloroethane	13.55	97	379283	47.6087 ug/L		99
63)	2-Hexanone	13.48	43	420175	49.0703 ug/L		95
64)	1,3-Dichloropropane	13.85	76	641329	45.8047 ug/L		93
65)	Tetrachloroethene	13.99	164	385899	50.0654 ug/L		98
66)	Dibromochloromethane	14.26	129	478368	49.2810 ug/L		98
67)	1,2-Dibromoethane	14.51	107	391834	48.2182 ug/L		98
68)	1-Chlorohexane	14.58	91	601077	54.5271 ug/L		94
69)	Chlorobenzene	15.01	112	1138311	45.8990 ug/L		100
70)	1,1,1,2-Tetrachloroethane	15.04	131	459022	49.3160 ug/L		97
71)	Ethylbenzene	15.03	106	670390	49.0523 ug/L		98
72)	m-,p-Xylene	15.13	106	1563111	97.1411 ug/L		97
73)	o-Xylene	15.68	106	757027	45.5245 ug/L		99
74)	Styrene	15.73	104	1380085	52.6547 ug/L		99
75)	Bromoform	16.23	173	366753	51.5226 ug/L		100
76)	Isopropylbenzene	16.11	105	1900984	47.5022 ug/L		100
78)	1,1,2,2-Tetrachloroethane	16.32	83	437409	44.7201 ug/L		97
80)	1,2,3-Trichloropropane	16.52	110	157081	46.4893 ug/L		72
81)	trans-1,4-Dichloro-2-Buten	16.56	53	144001	27.9060 ug/L	#	45
82)	n-Propylbenzene	16.61	91	2248430	42.4079 ug/L		99
83)	Bromobenzene	16.76	156	571108	45.7503 ug/L		97
84)	1,3,5-Trimethylbenzene	16.80	105	1826677	48.3571 ug/L		100
85)	2-Chlorotoluene	16.89	91	1629448	45.7793 ug/L		100
86)	4-Chlorotoluene	16.95	91	1260606	40.8748 ug/L		89
87)	a-Methylstyrene	17.21	118	1053085	53.3468 ug/L		97
88)	tert-Butylbenzene	17.28	134	376678	44.9406 ug/L		96
89)	1,2,4-Trimethylbenzene	17.33	105	1880858	48.0397 ug/L		99
90)	sec-Butylbenzene	17.55	105	2144233	45.1761 ug/L		100
91)	p-Isopropyltoluene	17.70	119	1821316	46.8936 ug/L		99
92)	1,3-Dichlorobenzene	17.91	146	1056334	45.9057 ug/L		100
93)	1,4-Dichlorobenzene	18.03	146	1169478	49.3163 ug/L		100
94)	n-Butylbenzene	18.23	91	1889580	51.4166 ug/L		99
95)	1,2-Dichlorobenzene	18.53	146	1089245	48.1027 ug/L		99
96)	1,2-Dibromo-3-Chloropropan	19.53	157	132154	53.3433 ug/L		93
97)	1,2,4-Trichlorobenzene	20.67	180	946862	55.6427 ug/L		98
98)	Hexachlorobutadiene	20.82	225	492914	57.4657 ug/L		99
99)	Naphthalene	21.05	128	2076327	56.0665 ug/L		100
100)	1,2,3-Trichlorobenzene	21.35	180	902702	54.2975 ug/L		99

(#) = qualifier out of range (m) = manual integration
9M964359.D 8260WTR.M Mon Jun 30 15:45:07 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062614\9M964359.D Vial: 13
Acq On : 26 Jun 2014 21:16 Operator: ADC
Sample : WG482030-12 50.0ug/L ALTSRC 8260 Inst : HPMS9
Misc : 1,1 STD65074 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 15:45 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964359.D 8260WTR.M Mon Jun 30 15:45:09 2014 Page 3

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\062614\9M964359.D Vial: 13
Acq On : 26 Jun 2014 21:16 Operator: ADC
Sample : WG482030-12 50.0ug/L ALTSRC 8260 Inst : HPMS9
Misc : 1,1 STD65074 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Mon Jun 30 15:47:09 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	103	0.00
2	T	Dichlorodifluoromethane	50.0000	78.7369	-57.5#	141	0.00
3	P	Chloromethane	50.0000	51.1118	-2.2	100	0.00
4	C	Vinyl Chloride	50.0000	50.5474	-1.1	99	0.00
5	T	1,3-Butadiene	50.0000	44.1482	11.7	80	0.00
6	T	Bromomethane	50.0000	51.2269	-2.5	110	-0.02
7	T	Chloroethane	50.0000	56.1881	-12.4	107	-0.01
8	T	Trichlorofluoromethane	50.0000	54.3459	-8.7	106	0.00
9	T	Diethyl ether	100.0000	94.1935	5.8	94	0.00
10	T	Isoprene	50.0000	52.6280	-5.3	100	-0.01
11	T	Acrolein	50.0000	58.8276	-17.7	117	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	51.8126	-3.6	101	-0.01
13	T	Acetone	50.0000	44.2460	11.5	90	0.00
14	C	1,1-Dichloroethene	50.0000	46.6114	6.8	90	-0.01
15	T	Tert-Butyl Alcohol	200.0000	206.8835	-3.4	112	0.02
16	T	Dimethyl Sulfide	50.0000	51.7983	-3.6	99	0.00
17	T	Iodomethane	50.0000	40.8136	18.4	82	0.00
18	T	Methyl acetate	50.0000	46.0064	8.0	93	0.00
19	T	Methylene Chloride	50.0000	50.3333	-0.7	99	0.00
20	T	Carbon Disulfide	50.0000	45.0184	10.0	88	0.00
21	T	Acrylonitrile	50.0000	48.2387	3.5	93	0.00
22	T	Methyl Tert Butyl Ether	50.0000	49.9837	0.0	96	0.00
23	T	trans-1,2-Dichloroethene	50.0000	49.5465	0.9	97	0.00
24	T	n-Hexane	50.0000	46.0908	7.8	89	0.00
25	T	Diisopropyl ether	100.0000	90.6894	9.3	88	0.00
26	T	Vinyl Acetate	50.0000	60.3418	-20.7	112	0.00
27	P	1,1-Dichloroethane	50.0000	46.4032	7.2	92	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	95.3611	4.6	94	0.00
29	T	2-Butanone	50.0000	46.1270	7.7	91	0.00
30	T	Propionitrile	100.0000	98.7524	1.2	97	0.00
31	T	2,2-Dichloropropane	50.0000	43.0527	13.9	86	0.00
32	T	cis-1,2-Dichloroethene	50.0000	47.7989	4.4	96	0.00
33	C	Chloroform	50.0000	46.5950	6.8	93	0.00
34		1-Bromopropane	50.0000	62.9551	-25.9#	115	0.00
35	T	Bromochloromethane	50.0000	47.3763	5.2	96	0.00
36	T	Tetrahydrofuran	100.0000	89.3195	10.7	87	0.00
37	S	Dibromofluoromethane	25.0000	26.1292	-4.5	107	0.00
38	T	1,1,1-Trichloroethane	50.0000	50.2593	-0.5	97	0.00
39	T	Cyclohexane	50.0000	49.4610	1.1	96	0.00
40	T	1,1-Dichloropropene	50.0000	48.5224	3.0	97	0.00
41	T	Tert-Amyl-Methyl ether	100.0000	97.1419	2.9	96	0.00
42	T	Carbon Tetrachloride	50.0000	49.8374	0.3	97	0.00
43	S	1,2-Dichloroethane-d4	25.0000	24.8334	0.7	99	0.00
44		Heptane	-1.0000	0.0000	0.0	99	0.00
45	T	1,2-Dichloroethane	50.0000	47.5461	4.9	92	0.00
46	T	Benzene	50.0000	48.5597	2.9	96	0.00
47	T	Trichloroethene	50.0000	49.0519	1.9	102	0.00
48	T	Methylcyclohexane	50.0000	52.1080	-4.2	101	0.00
49	C	1,2-Dichloropropane	50.0000	47.7457	4.5	94	0.00
50	T	1,4-Dioxane	200.0000	226.8788	-13.4	115	0.00
51	T	Bromodichloromethane	50.0000	47.4330	5.1	91	0.00
52	T	Dibromomethane	50.0000	51.9863	-4.0	97	0.00
53	T	2-Chloroethyl Vinyl Ether	50.0000	49.4731	1.1	93	0.00
54	T	4-Methyl-2-Pentanone	50.0000	50.0121	-0.0	98	0.00

(#) = Out of Range
9M964359.D 8260WTR.M Mon Jun 30 15:50:12 2014 Page 1

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\062614\9M964359.D Vial: 13
Acq On : 26 Jun 2014 21:16 Operator: ADC
Sample : WG482030-12 50.0ug/L ALTSRC 8260 Inst : HPMS9
Misc : 1,1 STD65074 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Mon Jun 30 15:47:09 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	50.0000	49.5579	0.9	95	0.00
56	T	Dimethyl Disulfide	50.0000	55.5067	-11.0	99	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	105	0.00
58	S	Toluene-d8	25.0000	27.3942	-9.6	108	0.00
59	C	Toluene	50.0000	48.9140	2.2	97	0.00
60	T	Ethyl Methacrylate	50.0000	53.2768	-6.6	102	0.00
61	T	trans-1,3-Dichloropropene	50.0000	44.5254	10.9	88	0.00
62	T	1,1,2-Trichloroethane	50.0000	47.6087	4.8	95	0.00
63	T	2-Hexanone	50.0000	49.0703	1.9	96	0.00
64	T	1,3-Dichloropropane	50.0000	45.8047	8.4	92	0.00
65	T	Tetrachloroethene	50.0000	50.0654	-0.1	99	0.00
66	T	Dibromochloromethane	50.0000	49.2810	1.4	97	0.00
67	T	1,2-Dibromoethane	50.0000	48.2182	3.6	94	0.00
68	T	1-Chlorohexane	50.0000	54.5271	-9.1	106	0.00
69	P	Chlorobenzene	50.0000	45.8990	8.2	93	0.00
70	T	1,1,1,2-Tetrachloroethane	50.0000	49.3160	1.4	99	0.00
71	C	Ethylbenzene	50.0000	49.0523	1.9	96	0.00
72	T	m-,p-Xylene	100.0000	97.1411	2.9	94	0.00
73	T	o-Xylene	50.0000	45.5245	9.0	91	0.00
74	T	Styrene	50.0000	52.6547	-5.3	99	0.00
75	P	Bromoform	50.0000	51.5226	-3.0	101	0.00
76	T	Isopropylbenzene	50.0000	47.5022	5.0	92	0.00
77	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	115	0.00
78	P	1,1,2,2-Tetrachloroethane	50.0000	44.7201	10.6	94	0.00
79	S	p-Bromofluorobenzene	25.0000	24.2930	2.8	108	0.00
80	T	1,2,3-Trichloropropane	50.0000	46.4893	7.0	102	0.00
81	T	trans-1,4-Dichloro-2-Butene	50.0000	27.9060	44.2#	57	0.00
82	T	n-Propylbenzene	50.0000	42.4079	15.2	89	0.00
83	T	Bromobenzene	50.0000	45.7503	8.5	103	0.00
84	T	1,3,5-Trimethylbenzene	50.0000	48.3571	3.3	103	0.00
85	T	2-Chlorotoluene	50.0000	45.7793	8.4	108	0.00
86	T	4-Chlorotoluene	50.0000	40.8748	18.3	82	0.00
87	T	a-Methylstyrene	50.0000	53.3468	-6.7	109	0.00
88	T	tert-Butylbenzene	50.0000	44.9406	10.1	96	0.00
89	T	1,2,4-Trimethylbenzene	50.0000	48.0397	3.9	104	0.00
90	T	sec-Butylbenzene	50.0000	45.1761	9.6	95	0.00
91	T	p-Isopropyltoluene	50.0000	46.8936	6.2	98	0.00
92	T	1,3-Dichlorobenzene	50.0000	45.9057	8.2	100	0.00
93	T	1,4-Dichlorobenzene	50.0000	49.3163	1.4	110	0.00
94	T	n-Butylbenzene	50.0000	51.4166	-2.8	108	0.00
95	T	1,2-Dichlorobenzene	50.0000	48.1027	3.8	103	0.00
96	T	1,2-Dibromo-3-Chloropropane	50.0000	53.3433	-6.7	111	0.00
97	T	1,2,4-Trichlorobenzene	50.0000	55.6427	-11.3	121	0.00
98	T	Hexachlorobutadiene	50.0000	57.4657	-14.9	120	0.00
99	T	Naphthalene	50.0000	56.0665	-12.1	113	0.00
100	T	1,2,3-Trichlorobenzene	50.0000	54.2975	-8.6	116	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
9M964359.D 8260WTR.M Mon Jun 30 15:50:12 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02543.D Vial: 2
Acq On : 17 Jul 2014 15:25 Operator: ADC
Sample : WG484735-02 50ug/L CCV 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 17 15:57:24 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	924106	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	764976	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.09	152	405292	25.00 ug/L	-0.01

System Monitoring Compounds

37) Dibromofluoromethane	9.67	111	283763	24.5880 ug/L	0.01
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.36%		
43) 1,2-Dichloroethane-d4	10.27	65	261190	23.1922 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 92.76%		
57) Toluene-d8	12.51	98	1035205	23.0983 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 92.40%		
78) p-Bromofluorobenzene	15.67	95	400856	22.8761 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 91.52%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.28	85	542760	54.2447 ug/L	100
3) Chloromethane	3.74	50	985088	56.4049 ug/L	99
4) Vinyl Chloride	3.98	62	780373	49.5874 ug/L	100
5) 1,3-Butadiene	4.02	54	503557	35.8007 ug/L	95
6) Bromomethane	4.89	94	334287	37.7666 ug/L	99
7) Chloroethane	5.05	64	440383	55.7570 ug/L	94
8) Trichlorofluoromethane	5.53	101	1028893	55.3791 ug/L	99
9) Diethyl ether	6.04	59	824467	108.8331 ug/L	95
10) Isoprene	6.08	67	815149	50.2448 ug/L	87
11) Acrolein	6.28	56	38071	39.4410 ug/L	97
12) 1,1,2-Trichloro-1,2,2-Trif	6.29	101	629732	55.0718 ug/L	99
13) Acetone	6.38	43	98526	52.7980 ug/L	94
14) 1,1-Dichloroethene	6.60	61	961657	56.8117 ug/L	91
15) Tert-Butyl Alcohol	6.70	59	126602	259.8437 ug/L	97
16) Dimethyl Sulfide	6.86	62	595656	50.3233 ug/L	91
17) Iodomethane	7.10	142	484863	34.0211 ug/L	99
18) Methyl acetate	7.10	43	268792	45.5566 ug/L	95
19) Methylene Chloride	7.35	84	684056	54.6123 ug/L	81
20) Carbon Disulfide	7.40	76	1829059	51.5895 ug/L	100
21) Acrylonitrile	7.53	53	134509	52.7381 ug/L	100
22) Methyl Tert Butyl Ether	7.56	73	1406817	54.8053 ug/L	95
23) trans-1,2-Dichloroethene	7.80	96	667692	53.9669 ug/L	84
24) n-Hexane	7.86	57	735745	51.3008 ug/L	94
25) Diisopropyl ether	8.18	45	3856179	115.2119 ug/L	98
26) Vinyl Acetate	8.35	43	538907	59.3128 ug/L	97
27) 1,1-Dichloroethane	8.39	63	1145375	56.4876 ug/L	99
28) Ethyl-Tert-Butyl ether	8.74	59	3494042	113.2364 ug/L	96
29) 2-Butanone	8.91	43	146119	54.6073 ug/L	92
30) Propionitrile	9.02	54	89304	102.3167 ug/L	99
31) 2,2-Dichloropropane	9.13	77	966214	53.1299 ug/L	99
32) cis-1,2-Dichloroethene	9.19	96	727514	54.1743 ug/L	85
33) Chloroform	9.39	83	1148896	55.2851 ug/L	99
34) 1-Bromopropane	9.52	122	116202	51.5596 ug/L	95
35) Bromochloromethane	9.62	130	423103	54.6606 ug/L	85
36) Tetrahydrofuran	9.64	42	189868	109.2638 ug/L	92
38) 1,1,1-Trichloroethane	9.90	97	1066940	55.3831 ug/L	97
39) Cyclohexane	9.93	56	979517	54.2845 ug/L	88
40) 1,1-Dichloropropene	10.08	75	896175	55.6047 ug/L	97
41) Carbon Tetrachloride	10.22	117	1004464	58.0253 ug/L	99
42) Tert-Amyl-Methyl ether	10.17	73	2993237	111.9345 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02543.D Vial: 2
Acq On : 17 Jul 2014 15:25 Operator: ADC
Sample : WG484735-02 50ug/L CCV 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 17 15:57:24 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

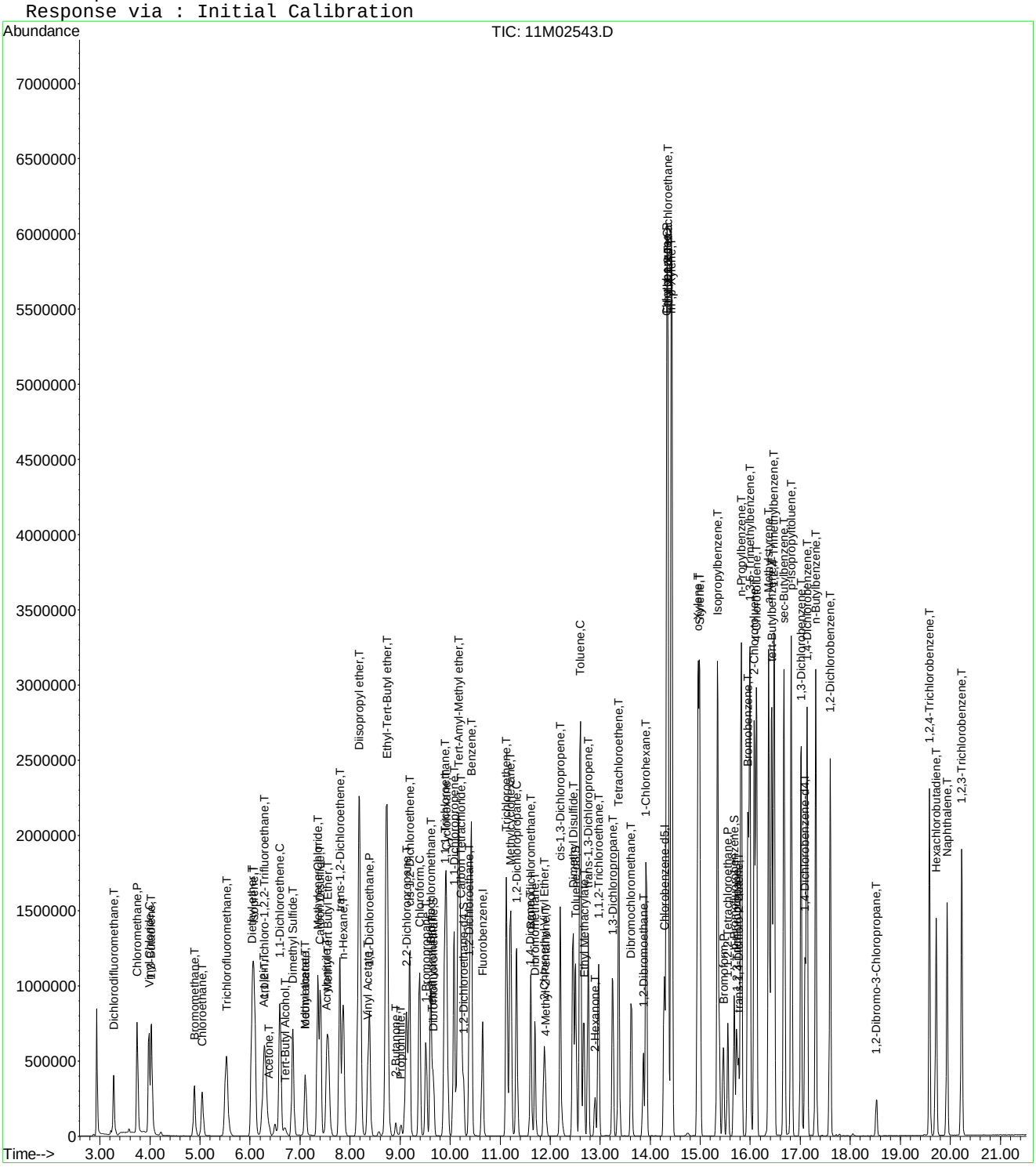
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	1,2-Dichloroethane	10.38	62	754112	51.6290 ug/L	99
45)	Benzene	10.42	78	2486600	55.4536 ug/L	99
46)	Trichloroethene	11.13	130	753490	54.3828 ug/L	97
47)	Methylcyclohexane	11.21	83	987541	54.0170 ug/L	91
48)	1,2-Dichloropropane	11.33	63	626390	56.0681 ug/L	100
49)	1,4-Dioxane	11.60	88	16003	235.6171 ug/L	90
50)	Bromodichloromethane	11.61	83	857193	55.1611 ug/L	100
51)	Dibromomethane	11.69	93	337626	53.0154 ug/L	98
52)	2-Chloroethyl Vinyl Ether	11.88	63	270926	53.2331 ug/L	98
53)	4-Methyl-2-Pentanone	11.91	58	133430	56.7240 ug/L	97
54)	cis-1,3-Dichloropropene	12.20	75	998103	57.1702 ug/L	100
55)	Dimethyl Disulfide	12.46	79	523716	53.4088 ug/L	100
58)	Toluene	12.60	91	2641898	51.2210 ug/L	100
59)	Ethyl Methacrylate	12.68	69	533176	50.1350 ug/L	91
60)	trans-1,3-Dichloropropene	12.76	75	857019	51.6070 ug/L	97
61)	1,1,2-Trichloroethane	12.97	97	458537	46.9377 ug/L	99
62)	2-Hexanone	12.89	43	220061	54.6049 ug/L	99
63)	1,3-Dichloropropane	13.26	76	781283	46.5087 ug/L	94
64)	Tetrachloroethene	13.37	164	565563	48.6152 ug/L	96
65)	Dibromochloromethane	13.62	129	622287	50.5001 ug/L	99
66)	1,2-Dibromoethane	13.87	107	455318	47.0500 ug/L	99
67)	1-Chlorohexane	13.92	91	841364	49.9785 ug/L	88
68)	Chlorobenzene	14.33	112	1852847	50.0028 ug/L	99
69)	1,1,1,2-Tetrachloroethane	14.35	131	703130	50.7598 ug/L	98
70)	Ethylbenzene	14.34	106	1035136	49.6736 ug/L	94
71)	m-,p-Xylene	14.42	106	2449435	104.6565 ug/L	92
72)	o-Xylene	14.95	106	1198930	50.0712 ug/L	95
73)	Styrene	14.99	104	1954668	54.4993 ug/L	97
74)	Bromoform	15.47	173	364804	51.0478 ug/L	98
75)	Isopropylbenzene	15.34	105	2914786	53.0707 ug/L	97
77)	1,1,2,2-Tetrachloroethane	15.55	83	484588	44.4875 ug/L	100
79)	1,2,3-Trichloropropane	15.74	110	148451	44.8956 ug/L	97
80)	trans-1,4-Dichloro-2-Buten	15.77	53	132302	43.8805 ug/L	75
81)	n-Propylbenzene	15.82	91	3398584	49.7498 ug/L	97
82)	Bromobenzene	15.95	156	748134	45.8717 ug/L	95
83)	1,3,5-Trimethylbenzene	16.00	105	2472717	51.3758 ug/L	96
84)	2-Chlorotoluene	16.08	91	2048383	47.4961 ug/L	94
85)	4-Chlorotoluene	16.12	91	2132007	49.0649 ug/L	95
86)	a-Methylstyrene	16.37	118	1309002	48.9648 ug/L	100
87)	tert-Butylbenzene	16.43	134	530390	48.7952 ug/L	80
88)	1,2,4-Trimethylbenzene	16.47	105	2517239	52.1233 ug/L	96
89)	sec-Butylbenzene	16.68	105	3022384	52.1006 ug/L	99
90)	p-Isopropyltoluene	16.82	119	2620556	53.6134 ug/L	100
91)	1,3-Dichlorobenzene	17.02	146	1423833	48.1866 ug/L	98
92)	1,4-Dichlorobenzene	17.13	146	1418400	47.9283 ug/L	98
93)	n-Butylbenzene	17.31	91	2231048	55.1648 ug/L	99
94)	1,2-Dichlorobenzene	17.60	146	1305304	48.1173 ug/L	98
95)	1,2-Dibromo-3-Chloropropan	18.52	75	77050	48.6478 ug/L	87
96)	1,2,4-Trichlorobenzene	19.58	180	883268	49.0251 ug/L	95
97)	Hexachlorobutadiene	19.72	225	370811	51.0563 ug/L	98
98)	Naphthalene	19.93	128	1550510	52.5838 ug/L	100
99)	1,2,3-Trichlorobenzene	20.22	180	781784	49.0855 ug/L	95

(#) = qualifier out of range (m) = manual integration
11M02543.D 8260WTR.M Thu Jul 17 15:57:25 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02543.D Vial: 2
Acq On : 17 Jul 2014 15:25 Operator: ADC
Sample : WG484735-02 50ug/L CCV 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 17 15:57 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\071714\11M02543.D Vial: 2
Acq On : 17 Jul 2014 15:25 Operator: ADC
Sample : WG484735-02 50ug/L CCV 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.0000	1.0000	0.0	90	0.00
2	T	Dichlorodifluoromethane	0.2707	0.2937	-8.5	93	0.01
3	P	Chloromethane	0.4725	0.5330	-12.8	107	0.00
4	C	Vinyl Chloride	0.4257	0.4222	0.8	85	0.00
5	T	1,3-Butadiene	0.3491	0.2725	21.9	72	0.00
6	T	Bromomethane	0.2395	0.1809	24.5	82	0.00
7	T	Chloroethane	0.2137	0.2383	-11.5	100	0.00
8	T	Trichlorofluoromethane	0.5026	0.5567	-10.8	99	0.01
9	T	Diethyl ether	0.2049	0.2230	-8.8	100	0.00
10	T	Isoprene	0.4389	0.4411	-0.5	89	0.00
11	T	Acrolein	0.0261	0.0206	21.1	71	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.3094	0.3407	-10.1	99	0.00
13	T	Acetone	0.0505	0.0533	-5.6	108	0.00
14	C	1,1-Dichloroethene	0.4579	0.5203	-13.6	100	0.00
15	T	Tert-Butyl Alcohol	0.0132	0.0171	-29.9#	122	0.00
16	T	Dimethyl Sulfide	0.3202	0.3223	-0.6	91	0.00
17	T	Iodomethane	0.2868	0.2623	8.5	60	0.00
18	T	Methyl acetate	0.1596	0.1454	8.9	85	0.00
19	T	Methylene Chloride	0.3389	0.3701	-9.2	104	0.00
20	T	Carbon Disulfide	0.9591	0.9896	-3.2	88	0.00
21	T	Acrylonitrile	0.0690	0.0728	-5.5	94	0.00
22	T	Methyl Tert Butyl Ether	0.6944	0.7612	-9.6	100	0.00
23	T	trans-1,2-Dichloroethene	0.3347	0.3613	-7.9	99	0.00
24	T	n-Hexane	0.3880	0.3981	-2.6	90	0.00
25	T	Diisopropyl ether	0.9055	1.0432	-15.2	104	0.00
26	T	Vinyl Acetate	0.2458	0.2916	-18.6	105	0.00
27	P	1,1-Dichloroethane	0.5485	0.6197	-13.0	100	0.00
28	T	Ethyl-Tert-Butyl ether	0.8348	0.9453	-13.2	102	0.01
29	T	2-Butanone	0.0724	0.0791	-9.2	102	0.00
30	T	Propionitrile	0.0236	0.0242	-2.3	92	0.00
31	T	2,2-Dichloropropane	0.4920	0.5228	-6.3	96	0.00
32	T	cis-1,2-Dichloroethene	0.3633	0.3936	-8.3	98	0.00
33	C	Chloroform	0.5622	0.6216	-10.6	100	0.00
34	T	1-Bromopropane	0.0610	0.0629	-3.1	87	0.00
35	T	Bromochloromethane	0.2094	0.2289	-9.3	97	0.00
36	T	Tetrahydrofuran	0.0470	0.0514	-9.3	100	0.00
37	S	Dibromofluoromethane	0.3122	0.3071	1.6	85	0.01
38	T	1,1,1-Trichloroethane	0.5212	0.5773	-10.8	100	0.00
39	T	Cyclohexane	0.4881	0.5300	-8.6	94	0.00
40	T	1,1-Dichloropropene	0.4360	0.4849	-11.2	98	0.00
41	T	Carbon Tetrachloride	0.4683	0.5435	-16.1	101	0.00
42	T	Tert-Amyl-Methyl ether	0.7234	0.8098	-11.9	102	0.01
43	S	1,2-Dichloroethane-d4	0.3047	0.2826	7.2	82	0.00
44	T	1,2-Dichloroethane	0.3952	0.4080	-3.3	96	0.00
45	T	Benzene	1.2131	1.3454	-10.9	98	0.00
46	T	Trichloroethene	0.3748	0.4077	-8.8	100	0.00
47	T	Methylcyclohexane	0.4946	0.5343	-8.0	93	0.00
48	C	1,2-Dichloropropane	0.3022	0.3389	-12.1	100	0.00
49	T	1,4-Dioxane	0.0018	0.0022	-17.4	107	0.00
50	T	Bromodichloromethane	0.4204	0.4638	-10.3	99	0.00
51	T	Dibromomethane	0.1723	0.1827	-6.0	96	0.00
52	T	2-Chloroethyl Vinyl Ether	0.1377	0.1466	-6.5	93	0.00
53	T	4-Methyl-2-Pentanone	0.0636	0.0722	-13.4	100	0.00
54	T	cis-1,3-Dichloropropene	0.4723	0.5400	-14.3	98	0.00

(#) = Out of Range
11M02543.D 8260WTR.M Thu Jul 17 15:57:42 2014 Page 1

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\071714\11M02543.D Vial: 2
Acq On : 17 Jul 2014 15:25 Operator: ADC
Sample : WG484735-02 50ug/L CCV 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
55	T	Dimethyl Disulfide	0.2653	0.2834	-6.8	97	0.00
56	I	Chlorobenzene-d5	1.0000	1.0000	0.0	100	0.00
57	S	Toluene-d8	1.4647	1.3533	7.6	89	0.00
58	C	Toluene	1.6856	1.7268	-2.4	96	0.00
59	T	Ethyl Methacrylate	0.3476	0.3485	-0.3	93	0.00
60	T	trans-1,3-Dichloropropene	0.5427	0.5602	-3.2	96	0.00
61	T	1,1,2-Trichloroethane	0.3193	0.2997	6.1	95	0.00
62	T	2-Hexanone	0.1317	0.1438	-9.2	105	0.00
63	T	1,3-Dichloropropane	0.5490	0.5107	7.0	95	0.00
64	T	Tetrachloroethene	0.3802	0.3697	2.8	98	0.00
65	T	Dibromochloromethane	0.4027	0.4067	-1.0	98	0.00
66	T	1,2-Dibromoethane	0.3163	0.2976	5.9	94	0.00
67	T	1-Chlorohexane	0.5502	0.5499	0.0	93	-0.01
68	P	Chlorobenzene	1.2110	1.2111	-0.0	97	0.00
69	T	1,1,1,2-Tetrachloroethane	0.4527	0.4596	-1.5	100	0.00
70	C	Ethylbenzene	0.6810	0.6766	0.7	97	0.00
71	T	m-,p-Xylene	0.7649	0.8005	-4.7	97	-0.01
72	T	o-Xylene	0.7825	0.7836	-0.1	96	-0.01
73	T	Styrene	1.1721	1.2776	-9.0	95	0.00
74	P	Bromoform	0.2336	0.2384	-2.1	97	0.00
75	T	Isopropylbenzene	1.7949	1.9051	-6.1	96	0.00
76	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	102	-0.01
77	P	1,1,2,2-Tetrachloroethane	0.6719	0.5978	11.0	92	0.00
78	S	p-Bromofluorobenzene	1.0809	0.9890	8.5	92	0.00
79	T	1,2,3-Trichloropropane	0.2040	0.1831	10.2	92	0.01
80	T	trans-1,4-Dichloro-2-Butene	0.1629	0.1632	-0.2	92	0.00
81	T	n-Propylbenzene	4.2138	4.1928	0.5	96	0.00
82	T	Bromobenzene	1.0060	0.9230	8.3	95	0.00
83	T	1,3,5-Trimethylbenzene	2.9688	3.0505	-2.8	96	0.00
84	T	2-Chlorotoluene	2.6603	2.5271	5.0	97	0.00
85	T	4-Chlorotoluene	2.6803	2.6302	1.9	95	-0.04
86	T	a-Methylstyrene	1.6490	1.6149	2.1	91	0.00
87	T	tert-Butylbenzene	0.6705	0.6543	2.4	98	0.00
88	T	1,2,4-Trimethylbenzene	2.9790	3.1055	-4.2	95	-0.01
89	T	sec-Butylbenzene	3.5783	3.7287	-4.2	97	0.00
90	T	p-Isopropyltoluene	3.0150	3.2329	-7.2	98	0.00
91	T	1,3-Dichlorobenzene	1.8227	1.7566	3.6	97	0.00
92	T	1,4-Dichlorobenzene	1.8255	1.7498	4.1	96	0.00
93	T	n-Butylbenzene	2.4947	2.7524	-10.3	97	0.00
94	T	1,2-Dichlorobenzene	1.6733	1.6103	3.8	96	0.00
95	T	1,2-Dibromo-3-Chloropropane	0.0977	0.0950	2.7	99	-0.01
96	T	1,2,4-Trichlorobenzene	0.9726	1.0897	-12.0	102	0.00
97	T	Hexachlorobutadiene	0.4480	0.4575	-2.1	109	0.00
98	T	Naphthalene	1.5027	1.9128	-27.3#	100	0.00
99	T	1,2,3-Trichlorobenzene	0.8099	0.9645	-19.1	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M02543.D 8260WTR.M Thu Jul 17 15:57:43 2014 Page 2

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\071714\11M02543.D Vial: 2
Acq On : 17 Jul 2014 15:25 Operator: ADC
Sample : WG484735-02 50ug/L CCV 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	90	0.00
2	T	Dichlorodifluoromethane	50.0000	54.2447	-8.5	93	0.01
3	P	Chloromethane	50.0000	56.4049	-12.8	107	0.00
4	C	Vinyl Chloride	50.0000	49.5874	0.8	85	0.00
5	T	1,3-Butadiene	50.0000	35.8007	28.4#	72	0.00
6	T	Bromomethane	50.0000	37.7666	24.5	82	0.00
7	T	Chloroethane	50.0000	55.7570	-11.5	100	0.00
8	T	Trichlorofluoromethane	50.0000	55.3791	-10.8	99	0.01
9	T	Diethyl ether	100.0000	108.8332	-8.8	100	0.00
10	T	Isoprene	50.0000	50.2448	-0.5	89	0.00
11	T	Acrolein	50.0000	39.4410	21.1	71	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	55.0718	-10.1	99	0.00
13	T	Acetone	50.0000	52.7980	-5.6	108	0.00
14	C	1,1-Dichloroethene	50.0000	56.8117	-13.6	100	0.00
15	T	Tert-Butyl Alcohol	200.0000	259.8437	-29.9#	122	0.00
16	T	Dimethyl Sulfide	50.0000	50.3233	-0.6	91	0.00
17	T	Iodomethane	50.0000	34.0211	32.0#	60	0.00
18	T	Methyl acetate	50.0000	45.5566	8.9	85	0.00
19	T	Methylene Chloride	50.0000	54.6123	-9.2	104	0.00
20	T	Carbon Disulfide	50.0000	51.5895	-3.2	88	0.00
21	T	Acrylonitrile	50.0000	52.7381	-5.5	94	0.00
22	T	Methyl Tert Butyl Ether	50.0000	54.8053	-9.6	100	0.00
23	T	trans-1,2-Dichloroethene	50.0000	53.9669	-7.9	99	0.00
24	T	n-Hexane	50.0000	51.3008	-2.6	90	0.00
25	T	Diisopropyl ether	100.0000	115.2119	-15.2	104	0.00
26	T	Vinyl Acetate	50.0000	59.3128	-18.6	105	0.00
27	P	1,1-Dichloroethane	50.0000	56.4876	-13.0	100	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	113.2364	-13.2	102	0.01
29	T	2-Butanone	50.0000	54.6073	-9.2	102	0.00
30	T	Propionitrile	100.0000	102.3167	-2.3	92	0.00
31	T	2,2-Dichloropropane	50.0000	53.1299	-6.3	96	0.00
32	T	cis-1,2-Dichloroethene	50.0000	54.1743	-8.3	98	0.00
33	C	Chloroform	50.0000	55.2851	-10.6	100	0.00
34	T	1-Bromopropane	50.0000	51.5596	-3.1	87	0.00
35	T	Bromochloromethane	50.0000	54.6606	-9.3	97	0.00
36	T	Tetrahydrofuran	100.0000	109.2638	-9.3	100	0.00
37	S	Dibromofluoromethane	25.0000	24.5880	1.6	85	0.01
38	T	1,1,1-Trichloroethane	50.0000	55.3830	-10.8	100	0.00
39	T	Cyclohexane	50.0000	54.2845	-8.6	94	0.00
40	T	1,1-Dichloropropene	50.0000	55.6047	-11.2	98	0.00
41	T	Carbon Tetrachloride	50.0000	58.0253	-16.1	101	0.00
42	T	Tert-Amyl-Methyl ether	100.0000	111.9345	-11.9	102	0.01
43	S	1,2-Dichloroethane-d4	25.0000	23.1922	7.2	82	0.00
44	T	1,2-Dichloroethane	50.0000	51.6290	-3.3	96	0.00
45	T	Benzene	50.0000	55.4536	-10.9	98	0.00
46	T	Trichloroethene	50.0000	54.3828	-8.8	100	0.00
47	T	Methylcyclohexane	50.0000	54.0170	-8.0	93	0.00
48	C	1,2-Dichloropropane	50.0000	56.0682	-12.1	100	0.00
49	T	1,4-Dioxane	200.0000	235.6171	-17.8	107	0.00
50	T	Bromodichloromethane	50.0000	55.1611	-10.3	99	0.00
51	T	Dibromomethane	50.0000	53.0154	-6.0	96	0.00
52	T	2-Chloroethyl Vinyl Ether	50.0000	53.2330	-6.5	93	0.00
53	T	4-Methyl-2-Pentanone	50.0000	56.7240	-13.4	100	0.00
54	T	cis-1,3-Dichloropropene	50.0000	57.1703	-14.3	98	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\071714\11M02543.D Vial: 2
Acq On : 17 Jul 2014 15:25 Operator: ADC
Sample : WG484735-02 50ug/L CCV 8260 Inst : hpms11
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	Dimethyl Disulfide	50.0000	53.4088	-6.8	97	0.00
56	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
57	S	Toluene-d8	25.0000	23.0983	7.6	89	0.00
58	C	Toluene	50.0000	51.2210	-2.4	96	0.00
59	T	Ethyl Methacrylate	50.0000	50.1350	-0.3	93	0.00
60	T	trans-1,3-Dichloropropene	50.0000	51.6070	-3.2	96	0.00
61	T	1,1,2-Trichloroethane	50.0000	46.9376	6.1	95	0.00
62	T	2-Hexanone	50.0000	54.6049	-9.2	105	0.00
63	T	1,3-Dichloropropane	50.0000	46.5087	7.0	95	0.00
64	T	Tetrachloroethene	50.0000	48.6152	2.8	98	0.00
65	T	Dibromochloromethane	50.0000	50.5001	-1.0	98	0.00
66	T	1,2-Dibromoethane	50.0000	47.0500	5.9	94	0.00
67	T	1-Chlorohexane	50.0000	49.9785	0.0	93	-0.01
68	P	Chlorobenzene	50.0000	50.0028	-0.0	97	0.00
69	T	1,1,1,2-Tetrachloroethane	50.0000	50.7598	-1.5	100	0.00
70	C	Ethylbenzene	50.0000	49.6736	0.7	97	0.00
71	T	m-,p-Xylene	100.0000	104.6565	-4.7	97	-0.01
72	T	o-Xylene	50.0000	50.0712	-0.1	96	-0.01
73	T	Styrene	50.0000	54.4993	-9.0	95	0.00
74	P	Bromoform	50.0000	51.0478	-2.1	97	0.00
75	T	Isopropylbenzene	50.0000	53.0707	-6.1	96	0.00
76	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	102	-0.01
77	P	1,1,2,2-Tetrachloroethane	50.0000	44.4875	11.0	92	0.00
78	S	p-Bromofluorobenzene	25.0000	22.8761	8.5	92	0.00
79	T	1,2,3-Trichloropropane	50.0000	44.8956	10.2	92	0.01
80	T	trans-1,4-Dichloro-2-Butene	50.0000	43.8805	12.2	92	0.00
81	T	n-Propylbenzene	50.0000	49.7498	0.5	96	0.00
82	T	Bromobenzene	50.0000	45.8717	8.3	95	0.00
83	T	1,3,5-Trimethylbenzene	50.0000	51.3758	-2.8	96	0.00
84	T	2-Chlorotoluene	50.0000	47.4961	5.0	97	0.00
85	T	4-Chlorotoluene	50.0000	49.0649	1.9	95	-0.04
86	T	a-Methylstyrene	50.0000	48.9648	2.1	91	0.00
87	T	tert-Butylbenzene	50.0000	48.7952	2.4	98	0.00
88	T	1,2,4-Trimethylbenzene	50.0000	52.1233	-4.2	95	-0.01
89	T	sec-Butylbenzene	50.0000	52.1006	-4.2	97	0.00
90	T	p-Isopropyltoluene	50.0000	53.6134	-7.2	98	0.00
91	T	1,3-Dichlorobenzene	50.0000	48.1866	3.6	97	0.00
92	T	1,4-Dichlorobenzene	50.0000	47.9283	4.1	96	0.00
93	T	n-Butylbenzene	50.0000	55.1648	-10.3	97	0.00
94	T	1,2-Dichlorobenzene	50.0000	48.1173	3.8	96	0.00
95	T	1,2-Dibromo-3-Chloropropane	50.0000	48.6478	2.7	99	-0.01
96	T	1,2,4-Trichlorobenzene	50.0000	49.0251	1.9	102	0.00
97	T	Hexachlorobutadiene	50.0000	51.0563	-2.1	109	0.00
98	T	Naphthalene	50.0000	52.5838	-5.2	100	0.00
99	T	1,2,3-Trichlorobenzene	50.0000	49.0855	1.8	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M02543.D 8260WTR.M Thu Jul 17 15:57:41 2014 Page 2

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006927.D
Acq On : 17 Jul 2014 12:42
Operator : ADC
Sample : WG484589-02 50.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 12:53:59 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.889	96	242202	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.808	117	183114	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.171	152	94358	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.879	111	77410	26.3783 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 105.513%		
32) 1,2-Dichloroethane-d4	4.545	65	65990	23.2672 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 93.069%		
44) Toluene-d8	6.499	98	285301	26.4458 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 105.783%		
63) p-Bromofluorobenzene	8.584	95	99484	24.1992 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 96.797%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.981	85	120959	62.5594 ug/L	100
3) Chloromethane	1.085	50	124107	54.1871 ug/L	100
4) Vinyl Chloride	1.125	62	156130	56.8181 ug/L	99
5) 1,3-Butadiene	1.134	54	124242	54.3663 ug/L	99
6) Bromomethane	1.299	94	59575	36.9987 ug/L	100
7) Chloroethane	1.363	64	95031	58.3492 ug/L	98
8) Trichlorofluoromethane	1.444	101	220946	57.1324 ug/L	100
9) Diethyl ether	1.626	59	89788	48.4848 ug/L	100
10) 1,1-Dichloroethene	1.745	61	205890	57.3169 ug/L	99
11) Carbon Disulfide	1.759	76	412343	53.8410 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.771	101	140546	56.3545 ug/L	99
13) Acrolein	1.962	56	9275	41.3476 ug/L	94
14) Methylene Chloride	2.133	84	144482	53.0017 ug/L	98
15) Acetone	2.171	43	20077	43.5935 ug/L	98
16) trans-1,2-Dichloroethene	2.255	96	142636	55.6643 ug/L	99
17) Methyl Tert Butyl Ether	2.341	73	320528	48.0198 ug/L	100
18) 1,1-Dichloroethane	2.764	63	250034	55.7389 ug/L	99
19) Acrylonitrile	2.810	53	27963	47.3116 ug/L	99
20) Vinyl Acetate	3.028	86	17173	84.1223 ug/L	100
21) cis-1,2-Dichloroethene	3.308	96	159617	54.7573 ug/L	100
22) 2,2-Dichloropropane	3.421	77	223302	57.5227 ug/L	99
23) Cyclohexane	3.520	56	220528	54.1535 ug/L	100
24) Bromochloromethane	3.528	130	101819	54.6872 ug/L	99
25) Chloroform	3.653	83	257208	53.8746 ug/L	100
26) Carbon Tetrachloride	3.783	117	219667	57.4078 ug/L	100
28) 1,1,1-Trichloroethane	3.876	97	236847	54.7762 ug/L	100
29) 1,1-Dichloropropene	4.050	75	194125	56.3010 ug/L	99
30) 2-Butanone	4.058	43	32286	44.6577 ug/L	95
31) Benzene	4.368	78	569960	55.0197 ug/L	100
33) 1,2-Dichloroethane	4.629	62	159089	50.9813 ug/L	99
34) Trichloroethene	5.080	130	168267	53.1242 ug/L	100
35) Dibromomethane	5.515	93	80748	51.7007 ug/L	100
36) 1,2-Dichloropropane	5.619	63	150185	54.6142 ug/L	98
37) Bromodichloromethane	5.717	83	195773	53.0488 ug/L	100
38) 1,4-Dioxane	5.917	88	1734	86.1542 ug/L	96
39) 2-Chloroethyl Vinyl Ether	6.314	63	70316	49.2734 ug/L	100
40) cis-1,3-Dichloropropene	6.334	75	233595	54.6258 ug/L	99
41) 4-Methyl-2-Pentanone	6.919	58	32189	45.5863 ug/L	99
42) trans-1,3-Dichloropropene	6.945	75	197307	52.9637 ug/L	100
45) Toluene	6.543	91	655250	53.9914 ug/L	100
46) Tetrachloroethene	6.884	166	185493	54.1563 ug/L	100
47) 1,1,2-Trichloroethane	7.078	97	110938	47.8606 ug/L	99
48) Dibromochloromethane	7.220	129	154274	50.2159 ug/L	99
49) 1,3-Dichloropropane	7.304	76	178381	48.5373 ug/L	99

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006927.D
Acq On : 17 Jul 2014 12:42
Operator : ADC
Sample : WG484589-02 50.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 12:53:59 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

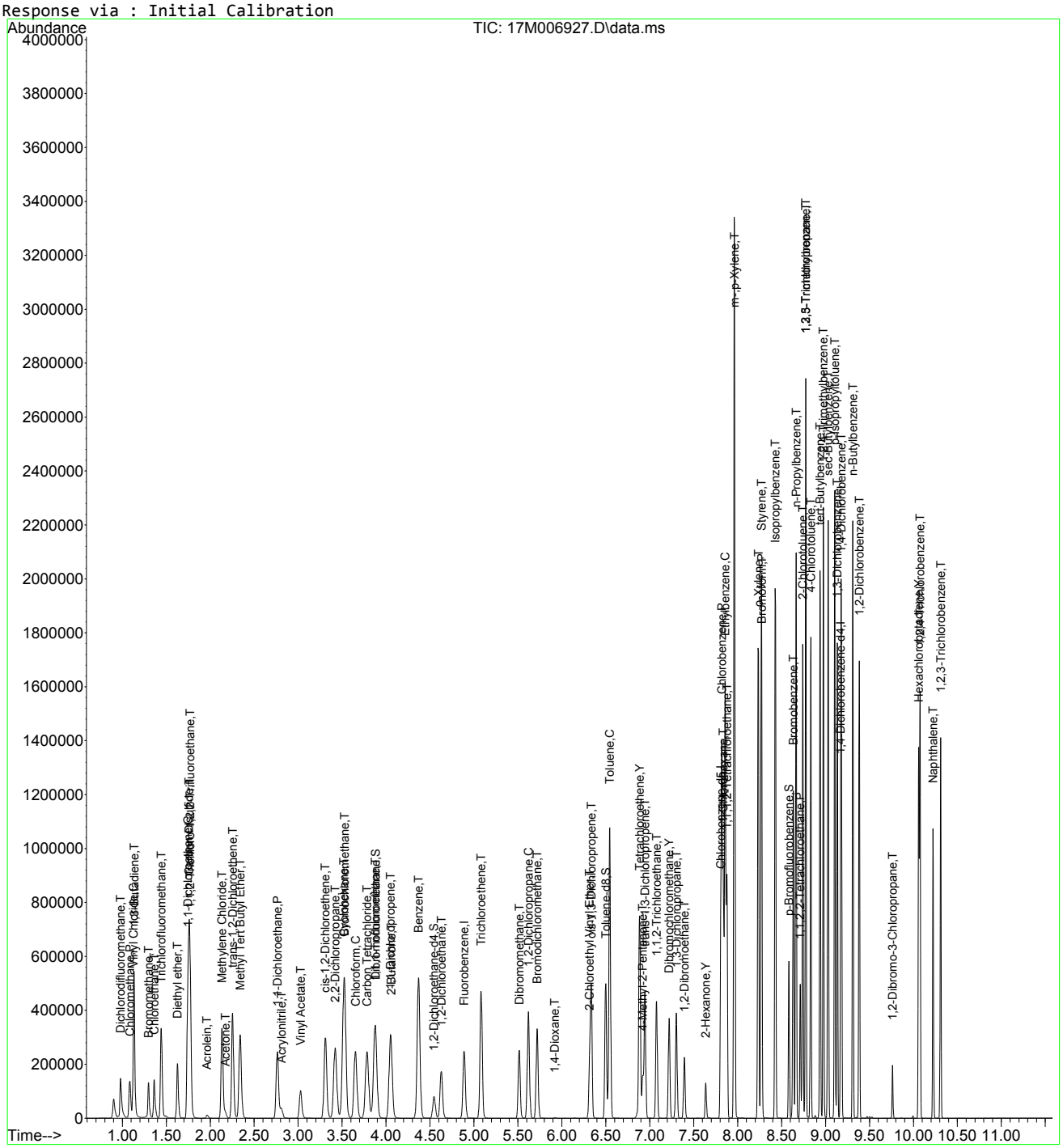
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) 1,2-Dibromoethane	7.394	107	112743	48.0015 ug/L	100
51) 2-Hexanone	7.637	43	53117	43.5989 ug/L	98
52) Chlorobenzene	7.819	112	435567	53.2413 ug/L	99
53) 1-Chlorohexane	7.837	69	36862	55.6757 ug/L	87
54) Ethylbenzene	7.857	106	238731	54.3604 ug/L	99
55) 1,1,1,2-Tetrachloroethane	7.877	131	161101	52.7547 ug/L	100
56) m-,p-Xylene	7.964	106	582842	112.4933 ug/L	99
57) o-Xylene	8.236	106	279354	53.3426 ug/L	99
58) Styrene	8.271	104	461469	54.5685 ug/L	99
59) Bromoform	8.274	173	106837	49.3417 ug/L	100
60) Isopropylbenzene	8.427	105	733574	55.2172 ug/L	100
62) 1,3,5-Trimethylbenzene	8.775	105	635291	55.1320 ug/L	100
64) Bromobenzene	8.633	156	194526	51.8033 ug/L	99
65) n-Propylbenzene	8.665	91	851576	56.5896 ug/L	100
66) 1,1,2,2-Tetrachloroethane	8.711	83	131951	46.9083 ug/L	100
67) 2-Chlorotoluene	8.740	91	496432	53.7156 ug/L	100
68) 1,2,3-Trichloropropane	8.775	110	35072	45.5609 ug/L	98
69) 1,2,4-Trimethylbenzene	8.975	105	628596	55.1136 ug/L	99
70) 4-Chlorotoluene	8.833	91	511006	54.4022 ug/L	100
71) tert-Butylbenzene	8.937	134	118844	53.1566 ug/L	100
72) sec-Butylbenzene	9.030	105	787017	55.9887 ug/L	100
73) p-Isopropyltoluene	9.105	119	674700	57.0539 ug/L	99
74) 1,3-Dichlorobenzene	9.134	146	367841	54.7128 ug/L	100
75) 1,4-Dichlorobenzene	9.180	146	369623	54.3855 ug/L	99
76) n-Butylbenzene	9.310	91	584487	60.3347 ug/L	100
77) 1,2-Dichlorobenzene	9.383	146	342384	52.2833 ug/L	100
78) 1,2-Dibromo-3-Chloropr...	9.762	75	22020	46.8373 ug/L	97
79) Hexachlorobutadiene	10.060	225	135445	47.9084 ug/L	100
80) 1,2,4-Trichlorobenzene	10.075	180	249244	49.4714 ug/L	99
81) Naphthalene	10.222	128	394121	44.0822 ug/L	100
82) 1,2,3-Trichlorobenzene	10.309	180	217575	50.9189 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006927.D
Acq On : 17 Jul 2014 12:42
Operator : ADC
Sample : WG484589-02 50.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 12:53:59 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



8260-VMS.M Thu Jul 17 12:54:00 2014 Page: 3

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006927.D
Acq On : 17 Jul 2014 12:42
Operator : ADC
Sample : WG484589-02 50.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 12:53:59 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	81	0.000
2	T	Dichlorodifluoromethane	0.200	0.250	-25.0	93	0.000
3	P	Chloromethane	0.236	0.256	-8.5	87	0.000
4	C	Vinyl Chloride	0.284	0.322	-13.4#	89	0.000
5	T	1,3-Butadiene	0.236	0.256	-8.5	82	0.000
6	T	Bromomethane	0.166	0.123	25.9#	59	0.000
7	T	Chloroethane	0.168	0.196	-16.7	101	0.000
8	T	Trichlorofluoromethane	0.399	0.456	-14.3	90	0.000
9	T	Diethyl ether	0.191	0.185	3.1	75	0.000
10	C	1,1-Dichloroethene	0.371	0.425	-14.6#	90	0.000
11	T	Carbon Disulfide	0.791	0.851	-7.6	83	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.257	0.290	-12.8	90	0.000
13	T	Acrolein	0.023	0.019	17.4	65	0.000
14	T	Methylene Chloride	0.281	0.298	-6.0	86	0.000
15	T	Acetone	0.048	0.041	14.6	73	0.000
16	T	trans-1,2-Dichloroethene	0.264	0.294	-11.4	88	0.000
17	T	Methyl Tert Butyl Ether	0.689	0.662	3.9	77	0.000
18	P	1,1-Dichloroethane	0.463	0.516	-11.4	88	0.000
19	T	Acrylonitrile	0.061	0.058	4.9	72	0.000
20	T	Vinyl Acetate	0.021	0.035	-66.7#	128	0.000
21	T	cis-1,2-Dichloroethene	0.301	0.330	-9.6	87	0.000
22	T	2,2-Dichloropropane	0.401	0.461	-15.0	92	0.000
23	T	Cyclohexane	0.420	0.455	-8.3	84	0.000
24	T	Bromochloromethane	0.192	0.210	-9.4	82	0.000
25	C	Chloroform	0.493	0.531	-7.7#	86	0.000
26	T	Carbon Tetrachloride	0.395	0.453	-14.7	88	0.000
27	S	Dibromofluoromethane	0.303	0.320	-5.6	86	0.000
28	T	1,1,1-Trichloroethane	0.446	0.489	-9.6	87	0.000
29	T	1,1-Dichloropropene	0.356	0.401	-12.6	89	0.000
30	T	2-Butanone	0.075	0.067	10.7	75	0.000
31	T	Benzene	1.069	1.177	-10.1	88	0.000
32	S	1,2-Dichloroethane-d4	0.293	0.272	7.2	79	0.000
33	T	1,2-Dichloroethane	0.322	0.328	-1.9	81	0.000
34	T	Trichloroethene	0.327	0.347	-6.1	86	0.000
35	T	Dibromomethane	0.161	0.167	-3.7	80	0.000
36	C	1,2-Dichloropropane	0.284	0.310	-9.2#	87	0.000
37	T	Bromodichloromethane	0.381	0.404	-6.0	84	0.000
38	T	1,4-Dioxane	0.002	0.002	0.0	70	0.000
39	T	2-Chloroethyl Vinyl Ether	0.147	0.145	1.4	79	0.000
40	T	cis-1,3-Dichloropropene	0.441	0.482	-9.3	85	0.000
41	T	4-Methyl-2-Pentanone	0.073	0.066	9.6	75	0.000
42	T	trans-1,3-Dichloropropene	0.385	0.407	-5.7	82	0.000
43	I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.000
44	S	Toluene-d8	1.473	1.558	-5.8	88	0.000
45	C	Toluene	1.657	1.789	-8.0#	87	0.000
46	Y	Tetrachloroethene	0.468	0.506	-8.1	87	0.000
47	T	1,1,2-Trichloroethane	0.316	0.303	4.1	78	0.000
48	Y	Dibromochloromethane	0.419	0.421	-0.5	79	0.000
49	T	1,3-Dichloropropane	0.502	0.487	3.0	79	0.000
50	T	1,2-Dibromoethane	0.321	0.308	4.0	77	0.000
51	Y	2-Hexanone	0.166	0.145	12.7	73	0.000
52	P	Chlorobenzene	1.117	1.189	-6.4	87	0.000
53	T	1-Chlorohexane	0.090	0.101	-12.2	83	0.000
54	C	Ethylbenzene	0.600	0.652	-8.7#	88	0.000
55	T	1,1,1,2-Tetrachloroethane	0.417	0.440	-5.5	84	0.000

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006927.D
Acq On : 17 Jul 2014 12:42
Operator : ADC
Sample : WG484589-02 50.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 12:53:59 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	T	m-,p-Xylene	0.707	0.796	-12.6	88	0.000
57	T	o-Xylene	0.715	0.763	-6.7	86	0.000
58	T	Styrene	1.155	1.260	-9.1	86	0.000
59	P	Bromoform	0.296	0.292	1.4	77	0.000
60	T	Isopropylbenzene	1.814	2.003	-10.4	87	0.000
61	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83	0.000
62	T	1,3,5-Trimethylbenzene	3.053	3.366	-10.3	87	0.000
63	S	p-Bromofluorobenzene	1.089	1.054	3.2	80	0.000
64	T	Bromobenzene	0.995	1.031	-3.6	84	0.000
65	T	n-Propylbenzene	3.987	4.512	-13.2	88	0.000
66	P	1,1,2,2-Tetrachloroethane	0.745	0.699	6.2	75	0.000
67	T	2-Chlorotoluene	2.449	2.631	-7.4	86	0.000
68	T	1,2,3-Trichloropropane	0.204	0.186	8.8	74	0.000
69	T	1,2,4-Trimethylbenzene	3.022	3.331	-10.2	86	0.000
70	T	4-Chlorotoluene	2.489	2.708	-8.8	87	0.000
71	T	tert-Butylbenzene	0.592	0.630	-6.4	86	0.000
72	T	sec-Butylbenzene	3.724	4.170	-12.0	86	0.000
73	T	p-Isopropyltoluene	3.133	3.575	-14.1	87	0.000
74	T	1,3-Dichlorobenzene	1.781	1.949	-9.4	86	0.000
75	T	1,4-Dichlorobenzene	1.801	1.959	-8.8	86	0.000
76	T	n-Butylbenzene	2.567	3.097	-20.6	87	0.000
77	T	1,2-Dichlorobenzene	1.735	1.814	-4.6	82	0.000
78	T	1,2-Dibromo-3-Chloropropane	0.125	0.117	6.4	71	0.000
79	Y	Hexachlorobutadiene	0.749	0.718	4.1	74	0.000
80	T	1,2,4-Trichlorobenzene	1.179	1.321	-12.0	80	0.000
81	T	Naphthalene	2.099	2.088	0.5	71	0.000
82	T	1,2,3-Trichlorobenzene	1.132	1.153	-1.9	76	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006927.D
Acq On : 17 Jul 2014 12:42
Operator : ADC
Sample : WG484589-02 50.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 12:53:59 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	81	0.000
2	T	Dichlorodifluoromethane	50.000	62.559	-25.1#	93	0.000
3	P	Chloromethane	50.000	54.187	-8.4	87	0.000
4	C	Vinyl Chloride	50.000	56.818	-13.6#	89	0.000
5	T	1,3-Butadiene	50.000	54.366	-8.7	82	0.000
6	T	Bromomethane	50.000	36.999	26.0#	59	0.000
7	T	Chloroethane	50.000	58.349	-16.7	101	0.000
8	T	Trichlorofluoromethane	50.000	57.132	-14.3	90	0.000
9	T	Diethyl ether	50.000	48.485	3.0	75	0.000
10	C	1,1-Dichloroethene	50.000	57.317	-14.6#	90	0.000
11	T	Carbon Disulfide	50.000	53.841	-7.7	83	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	56.355	-12.7	90	0.000
13	T	Acrolein	50.000	41.348	17.3	65	0.000
14	T	Methylene Chloride	50.000	53.002	-6.0	86	0.000
15	T	Acetone	50.000	43.594	12.8	73	0.000
16	T	trans-1,2-Dichloroethene	50.000	55.664	-11.3	88	0.000
17	T	Methyl Tert Butyl Ether	50.000	48.020	4.0	77	0.000
18	P	1,1-Dichloroethane	50.000	55.739	-11.5	88	0.000
19	T	Acrylonitrile	50.000	47.312	5.4	72	0.000
20	T	Vinyl Acetate	50.000	84.122	-68.2#	128	0.000
21	T	cis-1,2-Dichloroethene	50.000	54.757	-9.5	87	0.000
22	T	2,2-Dichloropropane	50.000	57.523	-15.0	92	0.000
23	T	Cyclohexane	50.000	54.154	-8.3	84	0.000
24	T	Bromochloromethane	50.000	54.687	-9.4	82	0.000
25	C	Chloroform	50.000	53.875	-7.8#	86	0.000
26	T	Carbon Tetrachloride	50.000	57.408	-14.8	88	0.000
27	S	Dibromofluoromethane	25.000	26.378	-5.5	86	0.000
28	T	1,1,1-Trichloroethane	50.000	54.776	-9.6	87	0.000
29	T	1,1-Dichloropropene	50.000	56.301	-12.6	89	0.000
30	T	2-Butanone	50.000	44.658	10.7	75	0.000
31	T	Benzene	50.000	55.020	-10.0	88	0.000
32	S	1,2-Dichloroethane-d4	25.000	23.267	6.9	79	0.000
33	T	1,2-Dichloroethane	50.000	50.981	-2.0	81	0.000
34	T	Trichloroethene	50.000	53.124	-6.2	86	0.000
35	T	Dibromomethane	50.000	51.701	-3.4	80	0.000
36	C	1,2-Dichloropropane	50.000	54.614	-9.2#	87	0.000
37	T	Bromodichloromethane	50.000	53.049	-6.1	84	0.000
38	T	1,4-Dioxane	100.000	86.154	13.8	70	0.000
39	T	2-Chloroethyl Vinyl Ether	50.000	49.273	1.5	79	0.000
40	T	cis-1,3-Dichloropropene	50.000	54.626	-9.3	85	0.000
41	T	4-Methyl-2-Pentanone	50.000	45.586	8.8	75	0.000
42	T	trans-1,3-Dichloropropene	50.000	52.964	-5.9	82	0.000
43	I	Chlorobenzene-d5	25.000	25.000	0.0	83	0.000
44	S	Toluene-d8	25.000	26.446	-5.8	88	0.000
45	C	Toluene	50.000	53.991	-8.0#	87	0.000
46	Y	Tetrachloroethene	50.000	54.156	-8.3	87	0.000
47	T	1,1,2-Trichloroethane	50.000	47.861	4.3	78	0.000
48	Y	Dibromochloromethane	50.000	50.216	-0.4	79	0.000
49	T	1,3-Dichloropropane	50.000	48.537	2.9	79	0.000
50	T	1,2-Dibromoethane	50.000	48.002	4.0	77	0.000
51	Y	2-Hexanone	50.000	43.599	12.8	73	0.000
52	P	Chlorobenzene	50.000	53.241	-6.5	87	0.000
53	T	1-Chlorohexane	50.000	55.676	-11.4	83	0.000
54	C	Ethylbenzene	50.000	54.360	-8.7#	88	0.000
55	T	1,1,1,2-Tetrachloroethane	50.000	52.755	-5.5	84	0.000

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006927.D
Acq On : 17 Jul 2014 12:42
Operator : ADC
Sample : WG484589-02 50.0ug/L 8260
Misc : 1,1 STD65138
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 12:53:59 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
56	T	m-,p-Xylene	100.000	112.493	-12.5	88	0.000
57	T	o-Xylene	50.000	53.343	-6.7	86	0.000
58	T	Styrene	50.000	54.569	-9.1	86	0.000
59	P	Bromoform	50.000	49.342	1.3	77	0.000
60	T	Isopropylbenzene	50.000	55.217	-10.4	87	0.000
61	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	83	0.000
62	T	1,3,5-Trimethylbenzene	50.000	55.132	-10.3	87	0.000
63	S	p-Bromofluorobenzene	25.000	24.199	3.2	80	0.000
64	T	Bromobenzene	50.000	51.803	-3.6	84	0.000
65	T	n-Propylbenzene	50.000	56.590	-13.2	88	0.000
66	P	1,1,2,2-Tetrachloroethane	50.000	46.908	6.2	75	0.000
67	T	2-Chlorotoluene	50.000	53.716	-7.4	86	0.000
68	T	1,2,3-Trichloropropane	50.000	45.561	8.9	74	0.000
69	T	1,2,4-Trimethylbenzene	50.000	55.114	-10.2	86	0.000
70	T	4-Chlorotoluene	50.000	54.402	-8.8	87	0.000
71	T	tert-Butylbenzene	50.000	53.157	-6.3	86	0.000
72	T	sec-Butylbenzene	50.000	55.989	-12.0	86	0.000
73	T	p-Isopropyltoluene	50.000	57.054	-14.1	87	0.000
74	T	1,3-Dichlorobenzene	50.000	54.713	-9.4	86	0.000
75	T	1,4-Dichlorobenzene	50.000	54.386	-8.8	86	0.000
76	T	n-Butylbenzene	50.000	60.335	-20.7	87	0.000
77	T	1,2-Dichlorobenzene	50.000	52.283	-4.6	82	0.000
78	T	1,2-Dibromo-3-Chloropropane	50.000	46.837	6.3	71	0.000
79	Y	Hexachlorobutadiene	50.000	47.908	4.2	74	0.000
80	T	1,2,4-Trichlorobenzene	50.000	49.471	1.1	80	0.000
81	T	Naphthalene	50.000	44.082	11.8	71	0.000
82	T	1,2,3-Trichlorobenzene	50.000	50.919	-1.8	76	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964782.D Vial: 2
Acq On : 18 Jul 2014 16:39 Operator: FJB
Sample : WG484905-02 50ug/L CCV 8260 Inst : HPMS9
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 19 10:16:22 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.07	96	892789	25.00 ug/L	-0.01
57) Chlorobenzene-d5	14.96	117	630198	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	324704	25.00 ug/L	0.00

System Monitoring Compounds					
37) Dibromofluoromethane	10.04	111	190741	20.1452 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 80.60%#		
43) 1,2-Dichloroethane-d4	10.68	65	234048	18.4825 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 73.92%#		
58) Toluene-d8	13.06	98	702627	22.5670 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 90.28%		
79) p-Bromofluorobenzene	16.46	95	242112	20.6665 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 82.68%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.38	85	382920	52.5694 ug/L	99
3) Chloromethane	3.88	50	761105	37.9337 ug/L	97
4) Vinyl Chloride	4.13	62	675415	50.9444 ug/L	99
5) 1,3-Butadiene	4.17	54	422170	42.5590 ug/L	96
6) Bromomethane	5.07	94	365998	44.9778 ug/L	99
7) Chloroethane	5.22	64	417212	50.2697 ug/L	97
8) Trichlorofluoromethane	5.73	101	669885	48.8895 ug/L	100
9) Diethyl ether	6.25	59	1081989	87.8377 ug/L	97
10) Isoprene	6.30	67	621614	47.3703 ug/L	97
11) Acrolein	6.49	56	69283	28.1728 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.51	101	408434	52.0218 ug/L	97
13) Acetone	6.60	43	145113	38.6237 ug/L	100
14) 1,1-Dichloroethene	6.84	61	905002	47.7523 ug/L	98
15) Tert-Butyl Alcohol	6.93	59	219424	160.2506 ug/L	97
16) Dimethyl Sulfide	7.09	62	658581	44.3820 ug/L	97
17) Iodomethane	7.36	142	496506	44.1357 ug/L	97
18) Methyl acetate	7.35	43	439366	35.7553 ug/L	98
19) Methylene Chloride	7.62	84	467698	46.6838 ug/L	91
20) Carbon Disulfide	7.67	76	1201703	44.9407 ug/L	100
21) Acrylonitrile	7.80	53	242801	40.3708 ug/L	97
22) Methyl Tert Butyl Ether	7.83	73	1190601	44.4445 ug/L	98
23) trans-1,2-Dichloroethene	8.08	61	867840	46.4399 ug/L	99
24) n-Hexane	8.15	57	973773	51.5145 ug/L	97
25) Diisopropyl ether	8.48	45	4542408	90.1115 ug/L	99
26) Vinyl Acetate	8.66	43	990334	54.3075 ug/L	98
27) 1,1-Dichloroethane	8.70	63	1078769	46.5764 ug/L	100
28) Ethyl-Tert-Butyl ether	9.06	59	4184284	91.8440 ug/L	99
29) 2-Butanone	9.24	43	233137	38.6958 ug/L	98
30) Propionitrile	9.35	54	169907	79.7207 ug/L	99
31) 2,2-Dichloropropane	9.47	77	727509	50.9451 ug/L	99
32) cis-1,2-Dichloroethene	9.54	96	492164	45.8083 ug/L	100
33) Chloroform	9.75	83	790704	45.1730 ug/L	99
34) 1-Bromopropane	9.89	122	81999	51.7081 ug/L	99
35) Bromochloromethane	9.98	130	294862	44.9209 ug/L	91
36) Tetrahydrofuran	10.00	42	303060	74.3880 ug/L	95
38) 1,1,1-Trichloroethane	10.29	97	717101	47.6999 ug/L	98
39) Cyclohexane	10.32	56	1205133	47.9810 ug/L	96
40) 1,1-Dichloropropene	10.47	75	604367	47.9594 ug/L	97
41) Tert-Amyl-Methyl ether	10.57	73	2470080	91.0833 ug/L	98
42) Carbon Tetrachloride	10.63	117	629952	47.6459 ug/L	100

(#) = qualifier out of range (m) = manual integration
9M964782.D 8260WTR.M Sat Jul 19 10:22:22 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964782.D Vial: 2
Acq On : 18 Jul 2014 16:39 Operator: FJB
Sample : WG484905-02 50ug/L CCV 8260 Inst : HPMS9
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 19 10:16:22 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

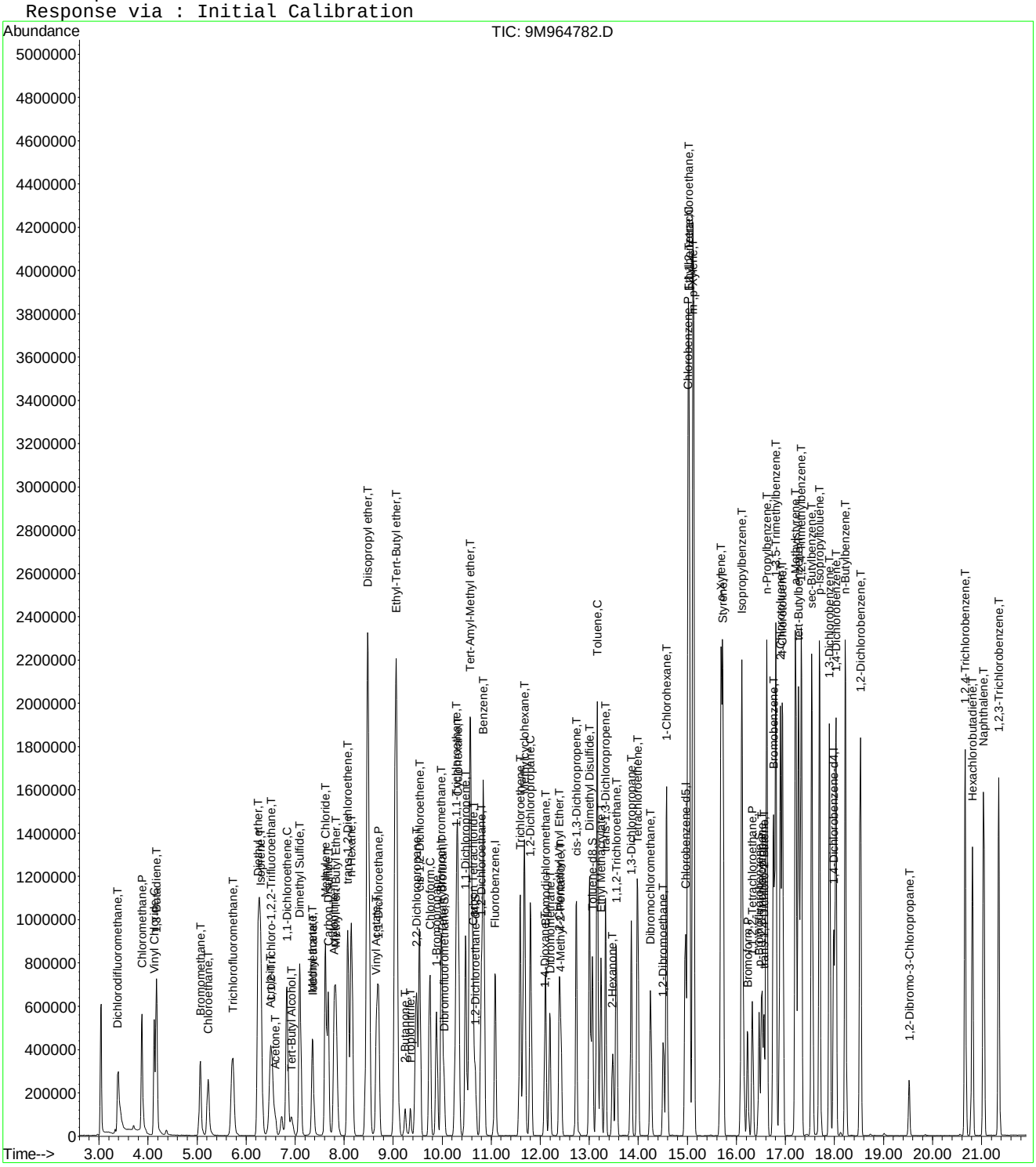
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	1,2-Dichloroethane	10.80	62	741318	44.3758	ug/L	99
46)	Benzene	10.84	78	1752449	46.2313	ug/L	98
47)	Trichloroethene	11.59	130	475771	43.8687	ug/L	99
48)	Methylcyclohexane	11.67	83	753485	53.3298	ug/L	96
49)	1,2-Dichloropropane	11.80	63	622184	45.7001	ug/L	100
50)	1,4-Dioxane	12.09	88	17682	177.6943	ug/L	93
51)	Bromodichloromethane	12.11	83	627257	46.6562	ug/L	99
52)	Dibromomethane	12.20	174	290126	46.5812	ug/L	99
53)	2-Chloroethyl Vinyl Ether	12.39	63	346529	46.7700	ug/L	99
54)	4-Methyl-2-Pentanone	12.42	58	219987	39.4817	ug/L	99
55)	cis-1,3-Dichloropropene	12.74	75	758055	48.0611	ug/L	99
56)	Dimethyl Disulfide	13.01	94	838029	49.6535	ug/L	99
59)	Toluene	13.16	91	1841595	49.3573	ug/L	100
60)	Ethyl Methacrylate	13.24	69	504789	47.0584	ug/L	100
61)	trans-1,3-Dichloropropene	13.33	75	676714	47.4316	ug/L	100
62)	1,1,2-Trichloroethane	13.56	97	363052	45.2770	ug/L	99
63)	2-Hexanone	13.47	43	340607	39.5210	ug/L	98
64)	1,3-Dichloropropane	13.86	76	639936	45.4101	ug/L	95
65)	Tetrachloroethene	13.99	164	394928	50.9059	ug/L	99
66)	Dibromochloromethane	14.25	129	459207	47.0015	ug/L	98
67)	1,2-Dibromoethane	14.51	107	373427	45.6563	ug/L	99
68)	1-Chlorohexane	14.58	91	597615	53.8629	ug/L	95
69)	Chlorobenzene	15.01	112	1200593	48.0977	ug/L	99
70)	1,1,1,2-Tetrachloroethane	15.03	131	453638	48.4228	ug/L	100
71)	Ethylbenzene	15.03	106	676408	49.1730	ug/L	97
72)	m-,p-Xylene	15.12	106	1618523	99.9352	ug/L	98
73)	o-Xylene	15.69	106	823307	49.1906	ug/L	100
74)	Styrene	15.73	104	1354914	51.3605	ug/L	100
75)	Bromoform	16.23	173	319215	44.5547	ug/L	99
76)	Isopropylbenzene	16.11	105	2025609	50.2895	ug/L	100
78)	1,1,2,2-Tetrachloroethane	16.33	83	411487	49.7853	ug/L	98
80)	1,2,3-Trichloropropane	16.52	110	133649	46.8085	ug/L	89
81)	trans-1,4-Dichloro-2-Buten	16.56	53	203089	46.5745	ug/L	98
82)	n-Propylbenzene	16.62	91	2455956	54.8174	ug/L	99
83)	Bromobenzene	16.76	156	534098	50.6321	ug/L	97
84)	1,3,5-Trimethylbenzene	16.80	105	1761527	55.1845	ug/L	100
85)	2-Chlorotoluene	16.90	91	1491047	49.5735	ug/L	100
86)	4-Chlorotoluene	16.94	91	1482325	56.8787	ug/L	89
87)	a-Methylstyrene	17.21	118	940038	56.3533	ug/L	99
88)	tert-Butylbenzene	17.27	134	381928	53.9237	ug/L	97
89)	1,2,4-Trimethylbenzene	17.32	105	1789280	54.0820	ug/L	100
90)	sec-Butylbenzene	17.54	105	2235090	55.7264	ug/L	100
91)	p-Isopropyltoluene	17.69	119	1856017	56.5509	ug/L	99
92)	1,3-Dichlorobenzene	17.90	146	1024194	52.6717	ug/L	99
93)	1,4-Dichlorobenzene	18.03	146	1029939	51.3972	ug/L	100
94)	n-Butylbenzene	18.22	91	1741194	56.0680	ug/L	100
95)	1,2-Dichlorobenzene	18.53	146	990442	51.7610	ug/L	100
96)	1,2-Dibromo-3-Chloropropan	19.53	157	94682	45.2269	ug/L	100
97)	1,2,4-Trichlorobenzene	20.67	180	744919	51.8036	ug/L	100
98)	Hexachlorobutadiene	20.81	225	401063	55.3324	ug/L	100
99)	Naphthalene	21.04	128	1538286	49.1557	ug/L	100
100)	1,2,3-Trichlorobenzene	21.35	180	694215	49.4150	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964782.D Vial: 2
Acq On : 18 Jul 2014 16:39 Operator: FJB
Sample : WG484905-02 50ug/L CCV 8260 Inst : HPMS9
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 19 10:16 2014 Quant Results File: 8260WTR.RES

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964782.D 8260WTR.M Sat Jul 19 10:22:23 2014 Page 3

Evaluate Continuing Calibration Report

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964782.D Vial: 2
Acq On : 18 Jul 2014 16:39 Operator: FJB
Sample : WG484905-02 50ug/L CCV 8260 Inst : HPMS9
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.0000	1.0000	0.0	110	-0.01
2	T	Dichlorodifluoromethane	0.2040	0.2145	-5.1	100	0.00
3	P	Chloromethane	0.5618	0.4263	24.1	79	0.00
4	C	Vinyl Chloride	0.3713	0.3783	-1.9	106	0.00
5	T	1,3-Butadiene	0.3181	0.2364	25.7#	83	0.00
6	T	Bromomethane	0.2279	0.2050	10.0	103	0.00
7	T	Chloroethane	0.2324	0.2337	-0.5	102	0.00
8	T	Trichlorofluoromethane	0.3837	0.3752	2.2	102	0.01
9	T	Diethyl ether	0.3449	0.3030	12.2	93	0.00
10	T	Isoprene	0.3675	0.3481	5.3	96	0.00
11	T	Acrolein	0.0689	0.0388	43.7#	60	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.2198	0.2287	-4.0	108	0.00
13	T	Acetone	0.1052	0.0813	22.8	84	0.00
14	C	1,1-Dichloroethene	0.5307	0.5068	4.5	98	0.00
15	T	Tert-Butyl Alcohol	0.0383	0.0307	19.9	92	0.00
16	T	Dimethyl Sulfide	0.4155	0.3688	11.2	90	0.00
17	T	Iodomethane	0.2513	0.2781	-10.6	95	0.00
18	T	Methyl acetate	0.3441	0.2461	28.5#	77	0.00
19	T	Methylene Chloride	0.2805	0.2619	6.6	98	0.00
20	T	Carbon Disulfide	0.7488	0.6730	10.1	94	0.00
21	T	Acrylonitrile	0.1684	0.1360	19.3	83	0.00
22	T	Methyl Tert Butyl Ether	0.7501	0.6668	11.1	91	0.00
23	T	trans-1,2-Dichloroethene	0.5233	0.4860	7.1	97	0.00
24	T	n-Hexane	0.5293	0.5454	-3.0	106	0.00
25	T	Diisopropyl ether	1.4116	1.2720	9.9	93	0.00
26	T	Vinyl Acetate	0.5106	0.5546	-8.6	108	0.00
27	P	1,1-Dichloroethane	0.6486	0.6042	6.8	98	0.00
28	T	Ethyl-Tert-Butyl ether	1.2757	1.1717	8.2	96	0.00
29	T	2-Butanone	0.1687	0.1306	22.6	81	0.00
30	T	Propionitrile	0.0597	0.0476	20.3	84	0.00
31	T	2,2-Dichloropropane	0.3999	0.4074	-1.9	108	0.00
32	T	cis-1,2-Dichloroethene	0.3009	0.2756	8.4	98	0.00
33	C	Chloroform	0.4901	0.4428	9.7	97	0.00
34		1-Bromopropane	0.0444	0.0459	-3.4	101	0.00
35	T	Bromochloromethane	0.1838	0.1651	10.2	97	0.00
36	T	Tetrahydrofuran	0.1141	0.0849	25.6#	78	0.00
37	S	Dibromofluoromethane	0.2651	0.2137	19.4	88	0.00
38	T	1,1,1-Trichloroethane	0.4210	0.4016	4.6	98	0.00
39	T	Cyclohexane	0.7033	0.6749	4.0	99	0.00
40	T	1,1-Dichloropropene	0.3529	0.3385	4.1	102	0.00
41	T	Tert-Amyl-Methyl ether	0.7594	0.6917	8.9	96	0.00
42	T	Carbon Tetrachloride	0.3702	0.3528	4.7	99	0.00
43	S	1,2-Dichloroethane-d4	0.3546	0.2621	26.1#	78	0.00
44		Heptane	0.0000	0.0000	0.0	109	0.00
45	T	1,2-Dichloroethane	0.4678	0.4152	11.2	92	0.00
46	T	Benzene	1.0615	0.9815	7.5	98	-0.01
47	T	Trichloroethene	0.3037	0.2665	12.3	98	0.00
48	T	Methylcyclohexane	0.3956	0.4220	-6.7	110	0.00
49	C	1,2-Dichloropropane	0.3812	0.3484	8.6	96	-0.01
50	T	1,4-Dioxane	0.0028	0.0025	11.1	96	0.00
51	T	Bromodichloromethane	0.3765	0.3513	6.7	95	0.00
52	T	Dibromomethane	0.1744	0.1625	6.8	93	0.00
53	T	2-Chloroethyl Vinyl Ether	0.2075	0.1941	6.5	94	0.00
54	T	4-Methyl-2-Pentanone	0.1560	0.1232	21.0	83	0.00

(#) = Out of Range
9M964782.D 8260WTR.M Sat Jul 19 10:21:44 2014 Page 1

Evaluate Continuing Calibration Report

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964782.D Vial: 2
Acq On : 18 Jul 2014 16:39 Operator: FJB
Sample : WG484905-02 50ug/L CCV 8260 Inst : HPMS9
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	0.4417	0.4245	3.9	99	0.00
56	T	Dimethyl Disulfide	0.4726	0.4693	0.7	95	0.00
57	I	Chlorobenzene-d5	1.0000	1.0000	0.0	105	0.00
58	S	Toluene-d8	1.2351	1.1149	9.7	89	0.00
59	C	Toluene	1.4802	1.4611	1.3	99	0.00
60	T	Ethyl Methacrylate	0.4255	0.4005	5.9	90	0.00
61	T	trans-1,3-Dichloropropene	0.5660	0.5369	5.1	94	0.00
62	T	1,1,2-Trichloroethane	0.3181	0.2880	9.4	91	0.00
63	T	2-Hexanone	0.3419	0.2702	21.0	78	0.00
64	T	1,3-Dichloropropane	0.5591	0.5077	9.2	92	0.00
65	T	Tetrachloroethene	0.3078	0.3133	-1.8	102	0.00
66	T	Dibromochloromethane	0.3876	0.3643	6.0	93	0.00
67	T	1,2-Dibromoethane	0.3245	0.2963	8.7	89	0.00
68	T	1-Chlorohexane	0.4401	0.4742	-7.7	105	0.00
69	P	Chlorobenzene	0.9902	0.9526	3.8	98	0.00
70	T	1,1,1,2-Tetrachloroethane	0.3716	0.3599	3.2	98	0.00
71	C	Ethylbenzene	0.5457	0.5367	1.7	97	0.00
72	T	m-,p-Xylene	0.6425	0.6421	0.1	97	0.00
73	T	o-Xylene	0.6640	0.6532	1.6	99	0.00
74	T	Styrene	1.0465	1.0750	-2.7	97	0.00
75	P	Bromoform	0.2842	0.2533	10.9	88	0.00
76	T	Isopropylbenzene	1.5979	1.6071	-0.6	98	0.00
77	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	97	0.00
78	P	1,1,2,2-Tetrachloroethane	0.6364	0.6336	0.4	89	0.00
79	S	p-Bromofluorobenzene	0.9020	0.7456	17.3	77	0.00
80	T	1,2,3-Trichloropropane	0.2198	0.2058	6.4	87	0.00
81	T	trans-1,4-Dichloro-2-Butene	0.3357	0.3127	6.9	81	0.00
82	T	n-Propylbenzene	3.4495	3.7818	-9.6	97	0.00
83	T	Bromobenzene	0.8122	0.8224	-1.3	96	0.00
84	T	1,3,5-Trimethylbenzene	2.4577	2.7125	-10.4	99	0.00
85	T	2-Chlorotoluene	2.3158	2.2960	0.9	99	0.00
86	T	4-Chlorotoluene	2.0065	2.2826	-13.8	96	-0.01
87	T	a-Methylstyrene	1.2843	1.4475	-12.7	98	0.00
88	T	tert-Butylbenzene	0.5453	0.5881	-7.8	97	0.00
89	T	1,2,4-Trimethylbenzene	2.5473	2.7553	-8.2	99	0.00
90	T	sec-Butylbenzene	3.0881	3.4417	-11.5	100	0.00
91	T	p-Isopropyltoluene	2.5269	2.8580	-13.1	100	-0.01
92	T	1,3-Dichlorobenzene	1.4971	1.5771	-5.3	97	0.00
93	T	1,4-Dichlorobenzene	1.5429	1.5860	-2.8	97	0.00
94	T	n-Butylbenzene	2.3910	2.6812	-12.1	99	0.00
95	T	1,2-Dichlorobenzene	1.4733	1.5252	-3.5	94	0.00
96	T	1,2-Dibromo-3-Chloropropane	0.1612	0.1458	9.5	79	0.00
97	T	1,2,4-Trichlorobenzene	1.1071	1.1471	-3.6	95	0.00
98	T	Hexachlorobutadiene	0.5581	0.6176	-10.7	97	0.00
99	T	Naphthalene	2.4094	2.3687	1.7	84	-0.01
100	T	1,2,3-Trichlorobenzene	1.0817	1.0690	1.2	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
9M964782.D 8260WTR.M Sat Jul 19 10:21:44 2014 Page 2

Evaluate Continuing Calibration Report

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964782.D Vial: 2
Acq On : 18 Jul 2014 16:39 Operator: FJB
Sample : WG484905-02 50ug/L CCV 8260 Inst : HPMS9
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	110	-0.01
2	T	Dichlorodifluoromethane	50.0000	52.5694	-5.1	100	0.00
3	P	Chloromethane	50.0000	37.9337	24.1	79	0.00
4	C	Vinyl Chloride	50.0000	50.9444	-1.9	106	0.00
5	T	1,3-Butadiene	50.0000	42.5590	14.9	83	0.00
6	T	Bromomethane	50.0000	44.9778	10.0	103	0.00
7	T	Chloroethane	50.0000	50.2697	-0.5	102	0.00
8	T	Trichlorofluoromethane	50.0000	48.8895	2.2	102	0.01
9	T	Diethyl ether	100.0000	87.8377	12.2	93	0.00
10	T	Isoprene	50.0000	47.3703	5.3	96	0.00
11	T	Acrolein	50.0000	28.1728	43.7#	60	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	52.0217	-4.0	108	0.00
13	T	Acetone	50.0000	38.6237	22.8	84	0.00
14	C	1,1-Dichloroethene	50.0000	47.7523	4.5	98	0.00
15	T	Tert-Butyl Alcohol	200.0000	160.2506	19.9	92	0.00
16	T	Dimethyl Sulfide	50.0000	44.3820	11.2	90	0.00
17	T	Iodomethane	50.0000	44.1357	11.7	95	0.00
18	T	Methyl acetate	50.0000	35.7553	28.5#	77	0.00
19	T	Methylene Chloride	50.0000	46.6838	6.6	98	0.00
20	T	Carbon Disulfide	50.0000	44.9407	10.1	94	0.00
21	T	Acrylonitrile	50.0000	40.3708	19.3	83	0.00
22	T	Methyl Tert Butyl Ether	50.0000	44.4445	11.1	91	0.00
23	T	trans-1,2-Dichloroethene	50.0000	46.4399	7.1	97	0.00
24	T	n-Hexane	50.0000	51.5145	-3.0	106	0.00
25	T	Diisopropyl ether	100.0000	90.1115	9.9	93	0.00
26	T	Vinyl Acetate	50.0000	54.3075	-8.6	108	0.00
27	P	1,1-Dichloroethane	50.0000	46.5764	6.8	98	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	91.8440	8.2	96	0.00
29	T	2-Butanone	50.0000	38.6958	22.6	81	0.00
30	T	Propionitrile	100.0000	79.7207	20.3	84	0.00
31	T	2,2-Dichloropropane	50.0000	50.9451	-1.9	108	0.00
32	T	cis-1,2-Dichloroethene	50.0000	45.8083	8.4	98	0.00
33	C	Chloroform	50.0000	45.1730	9.7	97	0.00
34		1-Bromopropane	50.0000	51.7081	-3.4	101	0.00
35	T	Bromochloromethane	50.0000	44.9209	10.2	97	0.00
36	T	Tetrahydrofuran	100.0000	74.3880	25.6#	78	0.00
37	S	Dibromofluoromethane	25.0000	20.1452	19.4	88	0.00
38	T	1,1,1-Trichloroethane	50.0000	47.6999	4.6	98	0.00
39	T	Cyclohexane	50.0000	47.9810	4.0	99	0.00
40	T	1,1-Dichloropropene	50.0000	47.9594	4.1	102	0.00
41	T	Tert-Amyl-Methyl ether	100.0000	91.0833	8.9	96	0.00
42	T	Carbon Tetrachloride	50.0000	47.6459	4.7	99	0.00
43	S	1,2-Dichloroethane-d4	25.0000	18.4825	26.1#	78	0.00
44		Heptane	-1.0000	0.0000	0.0	109	0.00
45	T	1,2-Dichloroethane	50.0000	44.3758	11.2	92	0.00
46	T	Benzene	50.0000	46.2313	7.5	98	-0.01
47	T	Trichloroethene	50.0000	43.8687	12.3	98	0.00
48	T	Methylcyclohexane	50.0000	53.3298	-6.7	110	0.00
49	C	1,2-Dichloropropane	50.0000	45.7001	8.6	96	-0.01
50	T	1,4-Dioxane	200.0000	177.6943	11.2	96	0.00
51	T	Bromodichloromethane	50.0000	46.6562	6.7	95	0.00
52	T	Dibromomethane	50.0000	46.5812	6.8	93	0.00
53	T	2-Chloroethyl Vinyl Ether	50.0000	46.7700	6.5	94	0.00
54	T	4-Methyl-2-Pentanone	50.0000	39.4817	21.0	83	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964782.D Vial: 2
Acq On : 18 Jul 2014 16:39 Operator: FJB
Sample : WG484905-02 50ug/L CCV 8260 Inst : HPMS9
Misc : 1,1 STD65120 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Multiple Level Calibration

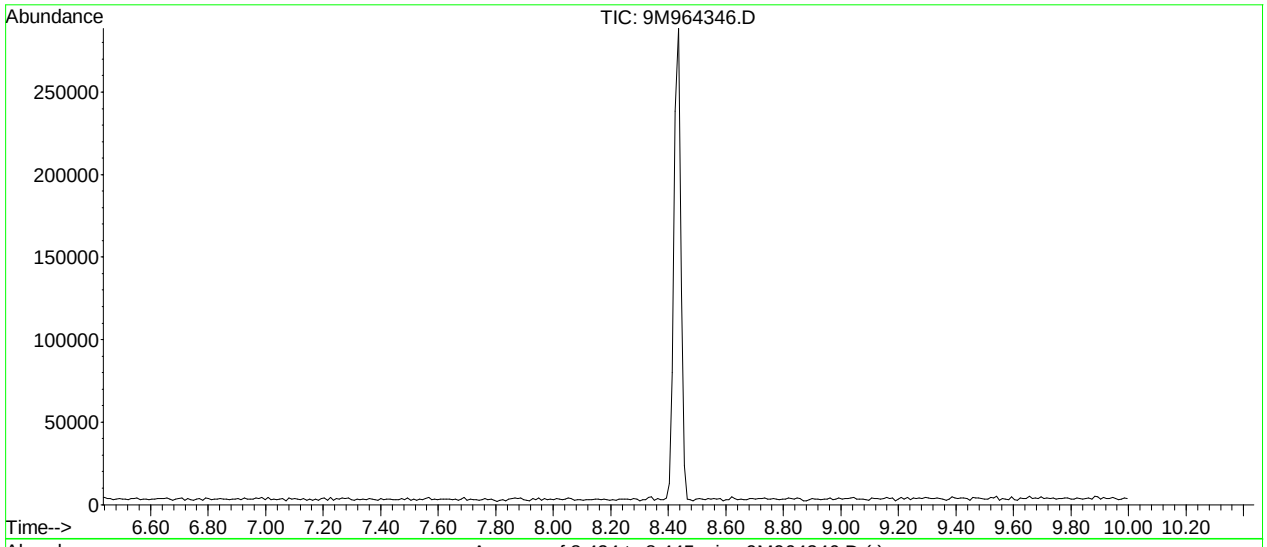
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

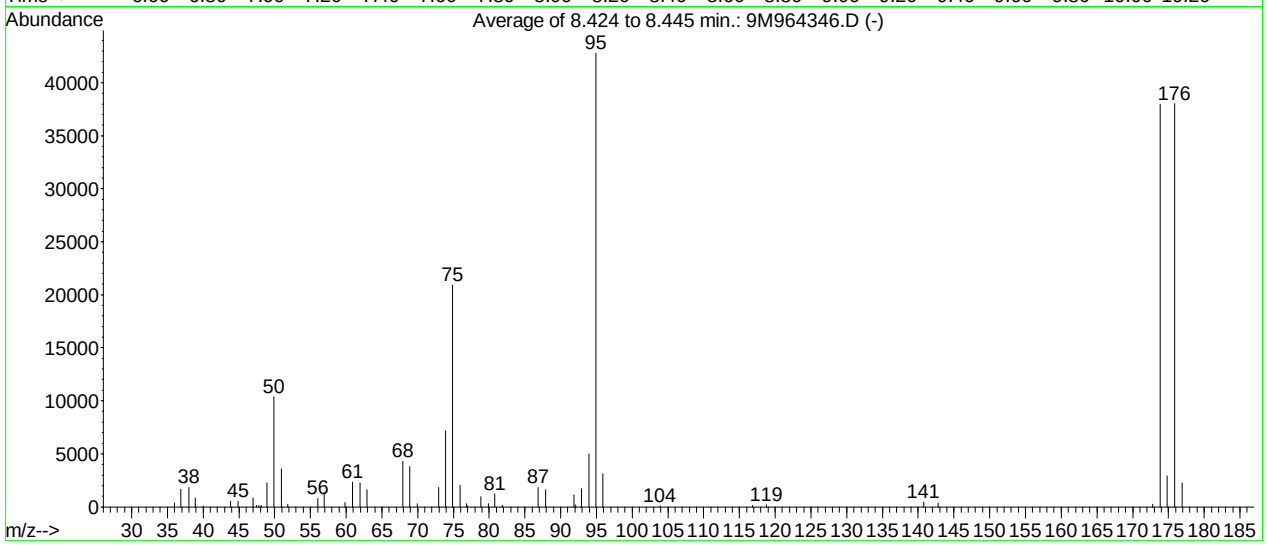
		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	50.0000	48.0611	3.9	99	0.00
56	T	Dimethyl Disulfide	50.0000	49.6535	0.7	95	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	105	0.00
58	S	Toluene-d8	25.0000	22.5670	9.7	89	0.00
59	C	Toluene	50.0000	49.3573	1.3	99	0.00
60	T	Ethyl Methacrylate	50.0000	47.0584	5.9	90	0.00
61	T	trans-1,3-Dichloropropene	50.0000	47.4316	5.1	94	0.00
62	T	1,1,2-Trichloroethane	50.0000	45.2770	9.4	91	0.00
63	T	2-Hexanone	50.0000	39.5210	21.0	78	0.00
64	T	1,3-Dichloropropane	50.0000	45.4100	9.2	92	0.00
65	T	Tetrachloroethene	50.0000	50.9059	-1.8	102	0.00
66	T	Dibromochloromethane	50.0000	47.0016	6.0	93	0.00
67	T	1,2-Dibromoethane	50.0000	45.6563	8.7	89	0.00
68	T	1-Chlorohexane	50.0000	53.8629	-7.7	105	0.00
69	P	Chlorobenzene	50.0000	48.0977	3.8	98	0.00
70	T	1,1,1,2-Tetrachloroethane	50.0000	48.4228	3.2	98	0.00
71	C	Ethylbenzene	50.0000	49.1730	1.7	97	0.00
72	T	m-,p-Xylene	100.0000	99.9351	0.1	97	0.00
73	T	o-Xylene	50.0000	49.1906	1.6	99	0.00
74	T	Styrene	50.0000	51.3605	-2.7	97	0.00
75	P	Bromoform	50.0000	44.5547	10.9	88	0.00
76	T	Isopropylbenzene	50.0000	50.2895	-0.6	98	0.00
77	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	97	0.00
78	P	1,1,2,2-Tetrachloroethane	50.0000	49.7852	0.4	89	0.00
79	S	p-Bromofluorobenzene	25.0000	20.6665	17.3	77	0.00
80	T	1,2,3-Trichloropropane	50.0000	46.8085	6.4	87	0.00
81	T	trans-1,4-Dichloro-2-Butene	50.0000	46.5745	6.9	81	0.00
82	T	n-Propylbenzene	50.0000	54.8173	-9.6	97	0.00
83	T	Bromobenzene	50.0000	50.6321	-1.3	96	0.00
84	T	1,3,5-Trimethylbenzene	50.0000	55.1845	-10.4	99	0.00
85	T	2-Chlorotoluene	50.0000	49.5735	0.9	99	0.00
86	T	4-Chlorotoluene	50.0000	56.8787	-13.8	96	-0.01
87	T	a-Methylstyrene	50.0000	56.3533	-12.7	98	0.00
88	T	tert-Butylbenzene	50.0000	53.9237	-7.8	97	0.00
89	T	1,2,4-Trimethylbenzene	50.0000	54.0820	-8.2	99	0.00
90	T	sec-Butylbenzene	50.0000	55.7264	-11.5	100	0.00
91	T	p-Isopropyltoluene	50.0000	56.5509	-13.1	100	-0.01
92	T	1,3-Dichlorobenzene	50.0000	52.6717	-5.3	97	0.00
93	T	1,4-Dichlorobenzene	50.0000	51.3972	-2.8	97	0.00
94	T	n-Butylbenzene	50.0000	56.0680	-12.1	99	0.00
95	T	1,2-Dichlorobenzene	50.0000	51.7610	-3.5	94	0.00
96	T	1,2-Dibromo-3-Chloropropane	50.0000	45.2269	9.5	79	0.00
97	T	1,2,4-Trichlorobenzene	50.0000	51.8036	-3.6	95	0.00
98	T	Hexachlorobutadiene	50.0000	55.3324	-10.7	97	0.00
99	T	Naphthalene	50.0000	49.1557	1.7	84	-0.01
100	T	1,2,3-Trichlorobenzene	50.0000	49.4150	1.2	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
9M964782.D 8260WTR.M Sat Jul 19 10:21:48 2014 Page 2

2.1.1.5 Raw QC Data

Data File : C:\MSDCHEM\1\DATA\062614\9M964346.D Vial: 2
Acq On : 26 Jun 2014 14:58 Operator: ADC
Sample : WG482030-01 50ng BFB STD 8260 Inst : HPMS9
Misc : 1,1 STD64936 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9



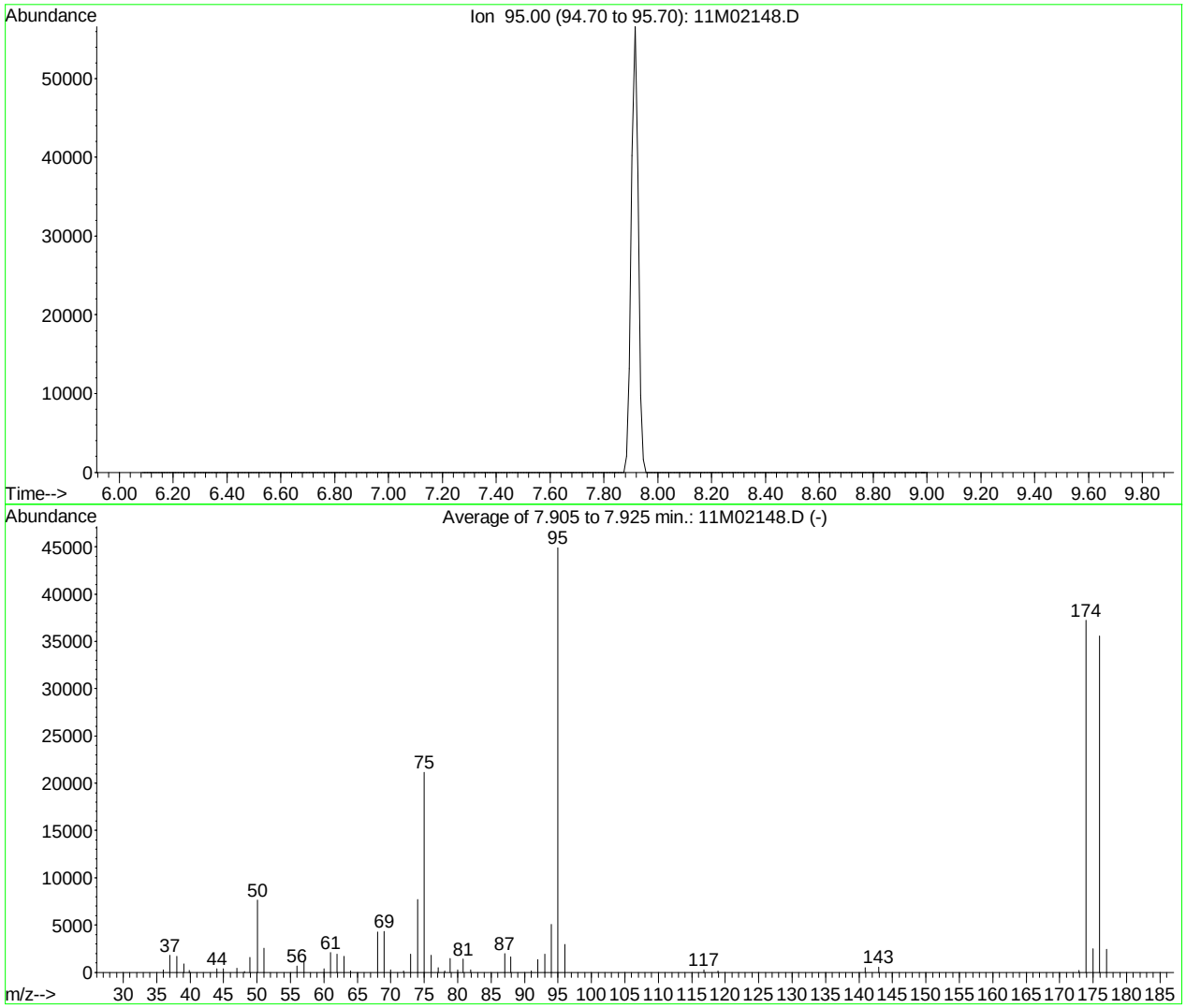


AutoFind: Scans 323, 324, 325; Background Corrected with Scan 318

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.3	10401	PASS
75	95	30	60	48.9	20913	PASS
95	95	100	100	100.0	42797	PASS
96	95	5	9	7.3	3124	PASS
173	174	0.00	2	0.6	245	PASS
174	95	50	100	88.7	37965	PASS
175	174	5	9	7.7	2930	PASS
176	174	95	101	100.2	38056	PASS
177	176	5	9	6.0	2283	PASS

9M964346.D 8260WTR.M Mon Jun 30 15:43:43 2014

```
Data File : C:\MSDCHEM\1\DATA\062714\11M02148.D          Vial: 1
Acq On    : 27 Jun 2014  14:07                        Operator: FJB
Sample    : WG482009-01 BFB 50ng 8260                 Inst    : hpms11
Misc      : 1,1 STD64936                              Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
Title     : SOP: OVL MSV01
```



AutoFind: Scans 177, 178, 179; Background Corrected with Scan 172

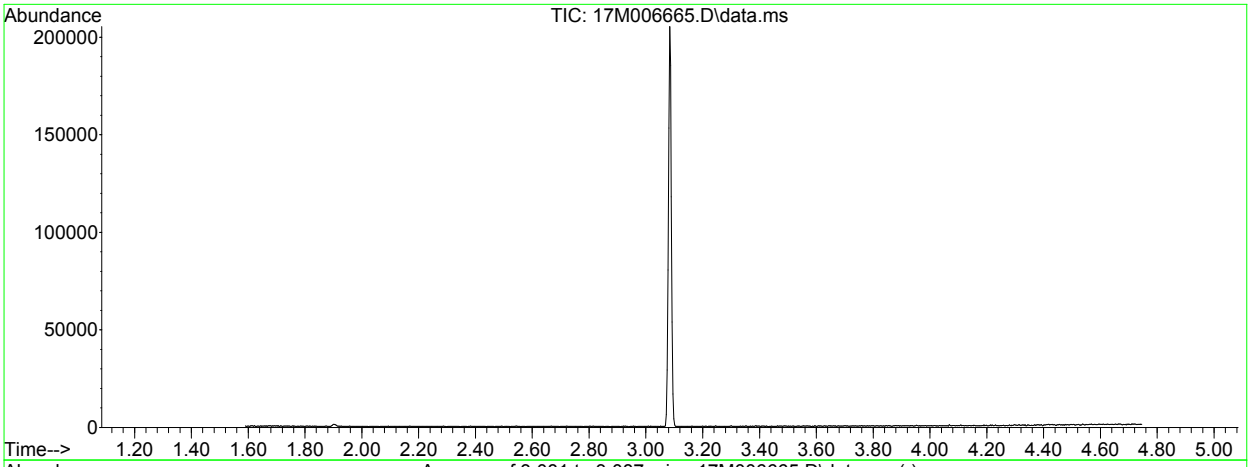
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	7655	PASS
75	95	30	60	47.0	21128	PASS
95	95	100	100	100.0	44912	PASS
96	95	5	9	6.5	2936	PASS
173	174	0.00	2	0.5	194	PASS
174	95	50	100	82.9	37234	PASS
175	174	5	9	6.7	2479	PASS
176	174	95	101	95.5	35560	PASS
177	176	5	9	6.8	2430	PASS

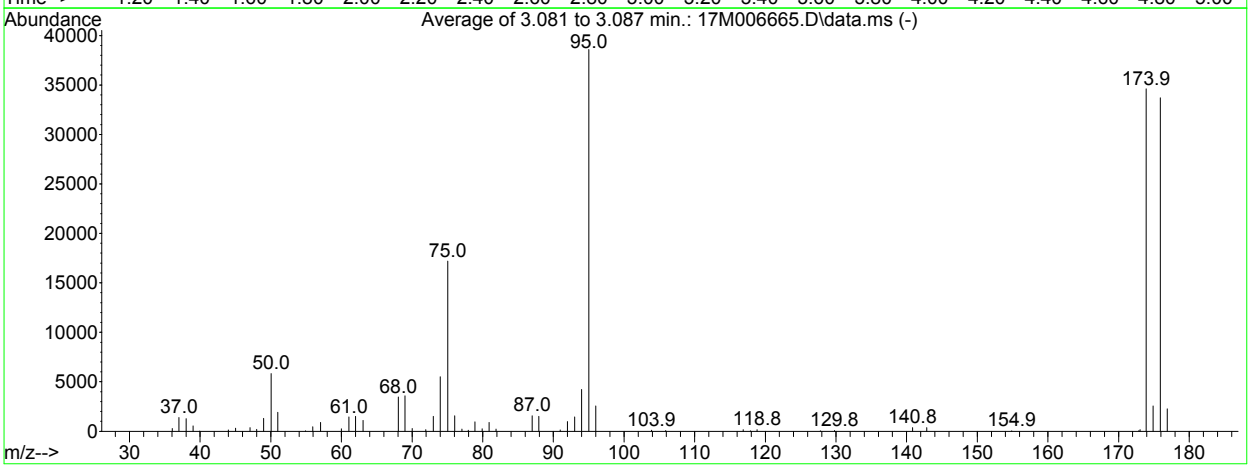
11M02148.D BFB.M Mon Jun 30 12:09:38 2014

Data Path : D:\MassHunter\GCMS\1\data\070914\
Data File : 17M006665.D
Acq On : 09 Jul 2014 16:09
Operator : ADC
Sample : WG483481-01 50ng BFB 8260
Misc : 1,1 STD64405
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
Last Update : Wed Jul 16 16:17:06 2014





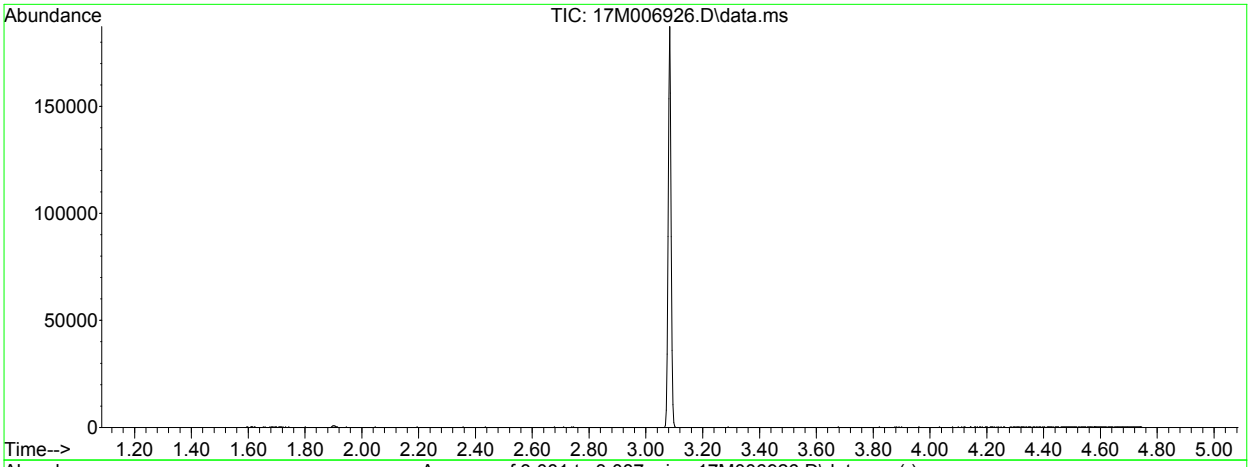
AutoFind: Scans 516, 517, 518; Background Corrected with Scan 509

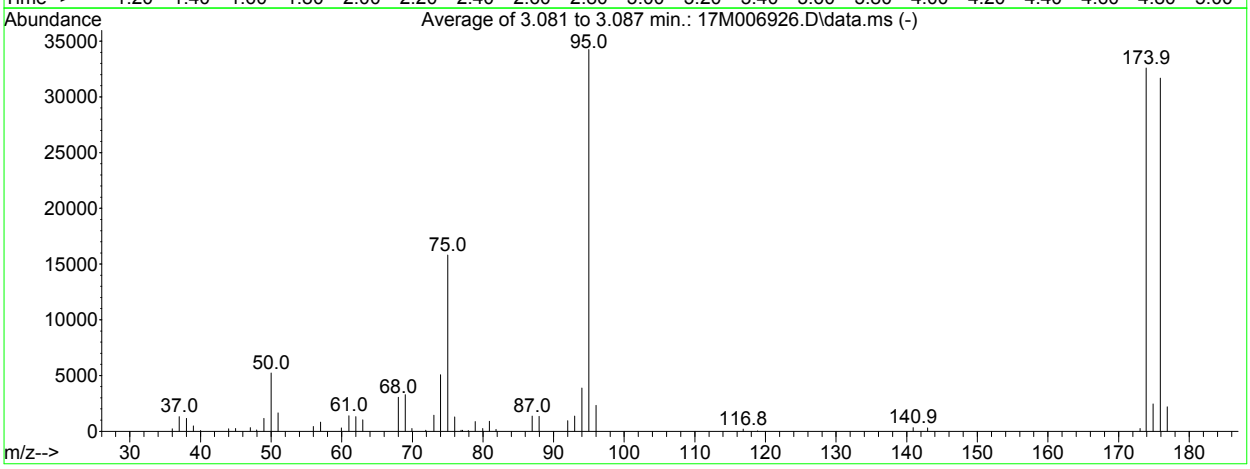
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.1	5818	PASS
75	95	30	60	44.6	17204	PASS
95	95	100	100	100.0	38597	PASS
96	95	5	9	6.6	2558	PASS
173	174	0.00	2	0.5	172	PASS
174	95	50	100	89.7	34616	PASS
175	174	5	9	7.4	2569	PASS
176	174	95	101	97.4	33701	PASS
177	176	5	9	6.7	2258	PASS

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006926.D
Acq On : 17 Jul 2014 12:22
Operator : ADC
Sample : WG484589-01 50ng BFB 8260
Misc : 1,1 STD64405
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
Last Update : Wed Jul 16 16:17:06 2014

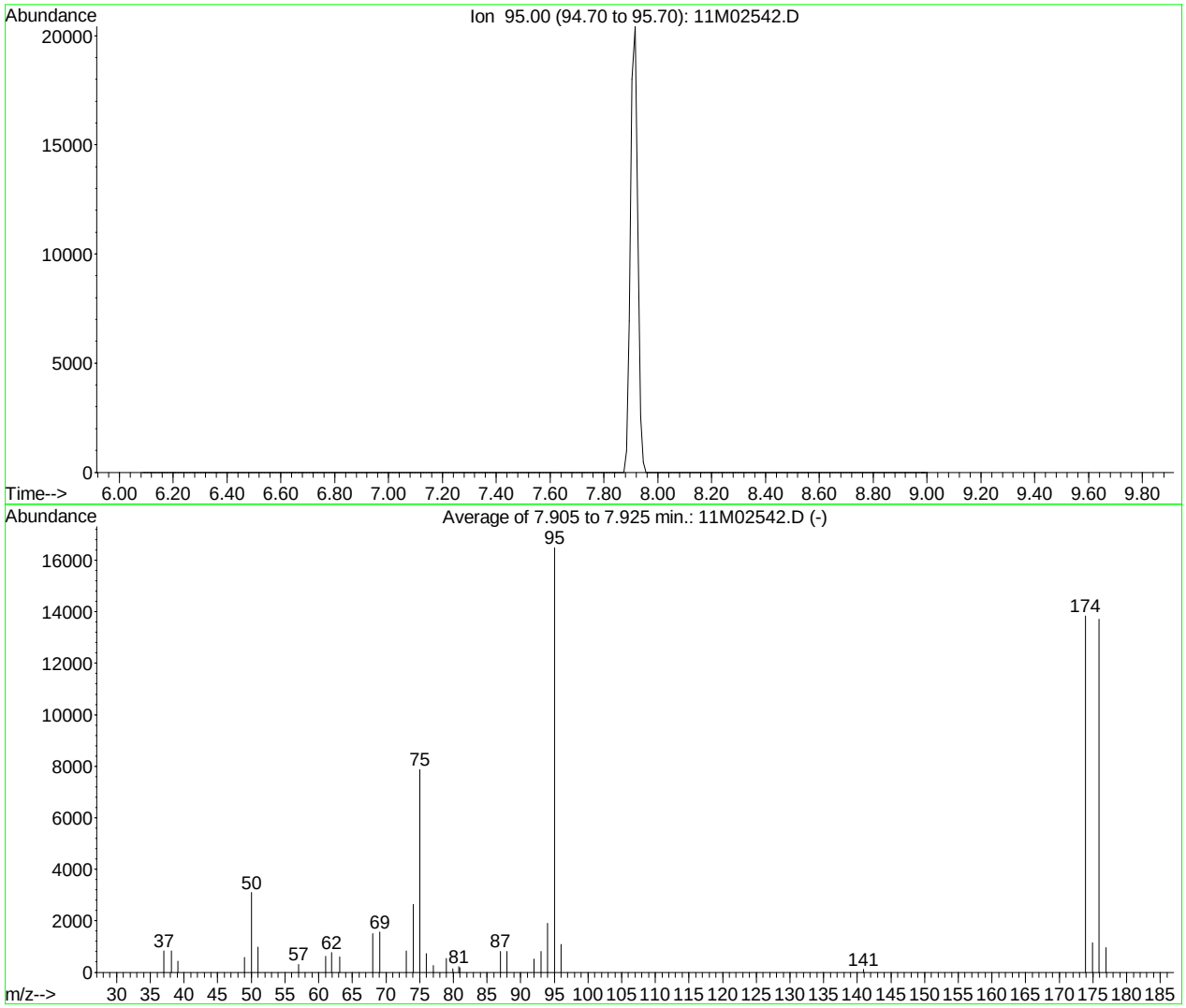




AutoFind: Scans 516, 517, 518; Background Corrected with Scan 509

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	5233	PASS
75	95	30	60	46.2	15818	PASS
95	95	100	100	100.0	34264	PASS
96	95	5	9	6.8	2321	PASS
173	174	0.00	2	0.7	237	PASS
174	95	50	100	95.1	32581	PASS
175	174	5	9	7.6	2461	PASS
176	174	95	101	97.3	31693	PASS
177	176	5	9	6.9	2202	PASS

```
Data File : C:\MSDCHEM\1\DATA\071714\11M02542.D          Vial: 1
Acq On    : 17 Jul 2014  15:00                        Operator: ADC
Sample    : WG484735-01 BFB 50ng 8260                 Inst    : hpms11
Misc      : 1,1 STD65391                              Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title     : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
```

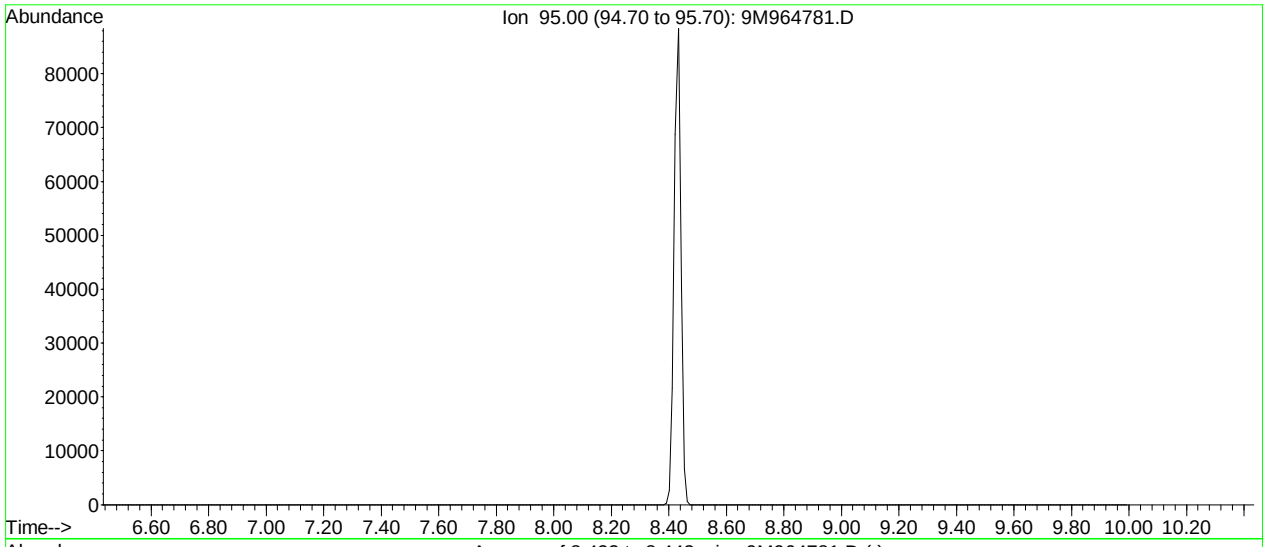


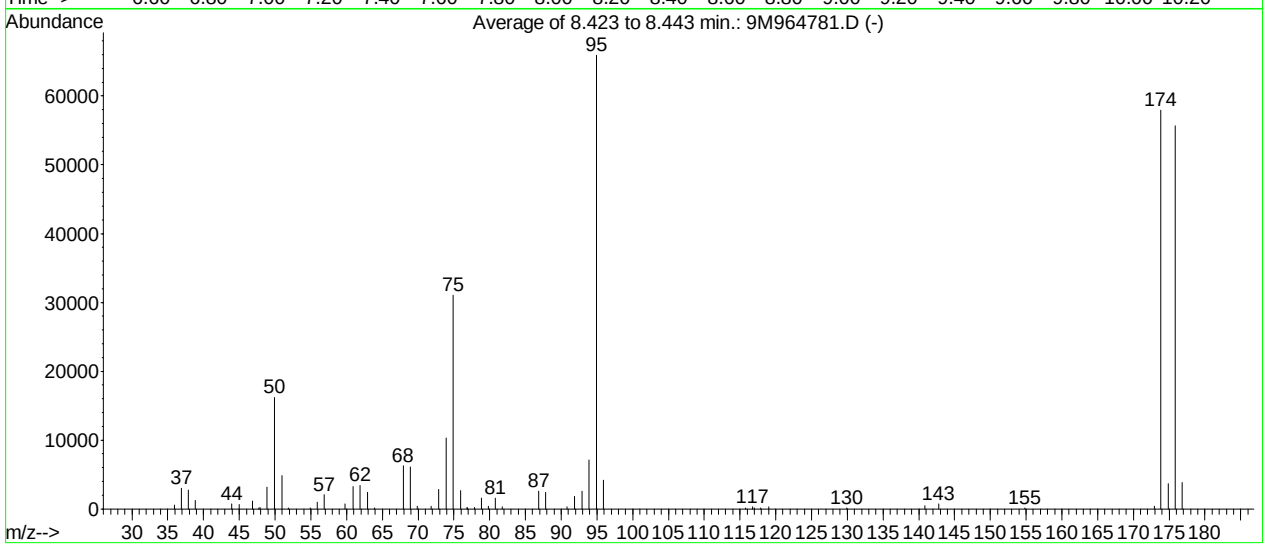
AutoFind: Scans 177, 178, 179; Background Corrected with Scan 172

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	3106	PASS
75	95	30	60	47.7	7866	PASS
95	95	100	100	100.0	16489	PASS
96	95	5	9	6.5	1076	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	83.9	13837	PASS
175	174	5	9	8.3	1144	PASS
176	174	95	101	99.0	13702	PASS
177	176	5	9	6.9	949	PASS

11M02542.D 8260WTR.M Thu Jul 17 15:57:58 2014

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964781.D Vial: 1
Acq On : 18 Jul 2014 16:13 Operator: FJB
Sample : WG484905-01 BFB 50ng 8260 Inst : HPMS9
Misc : 1,1 STD64936 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9





AutoFind: Scans 323, 324, 325; Background Corrected with Scan 317

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.6	16223	PASS
75	95	30	60	47.1	31069	PASS
95	95	100	100	100.0	65944	PASS
96	95	5	9	6.3	4180	PASS
173	174	0.00	2	0.6	371	PASS
174	95	50	100	87.9	57973	PASS
175	174	5	9	6.3	3646	PASS
176	174	95	101	96.0	55640	PASS
177	176	5	9	6.8	3810	PASS

9M964781.D 8260WTR.M Sat Jul 19 10:21:35 2014

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02545.D Vial: 4
Acq On : 17 Jul 2014 16:29 Operator: ADC
Sample : WG484736-01 VBLK0717 BLANK 8260 Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 09:56:30 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	867019	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	700535	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.09	152	335877	25.00 ug/L	-0.01

System Monitoring Compounds

37) Dibromofluoromethane	9.66	111	260727	24.0795 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 96.32%		
43) 1,2-Dichloroethane-d4	10.27	65	253753	24.0154 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 96.08%		
57) Toluene-d8	12.51	98	967513	23.5738 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 94.28%		
78) p-Bromofluorobenzene	15.68	95	354891	24.4386 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.76%		

Target Compounds

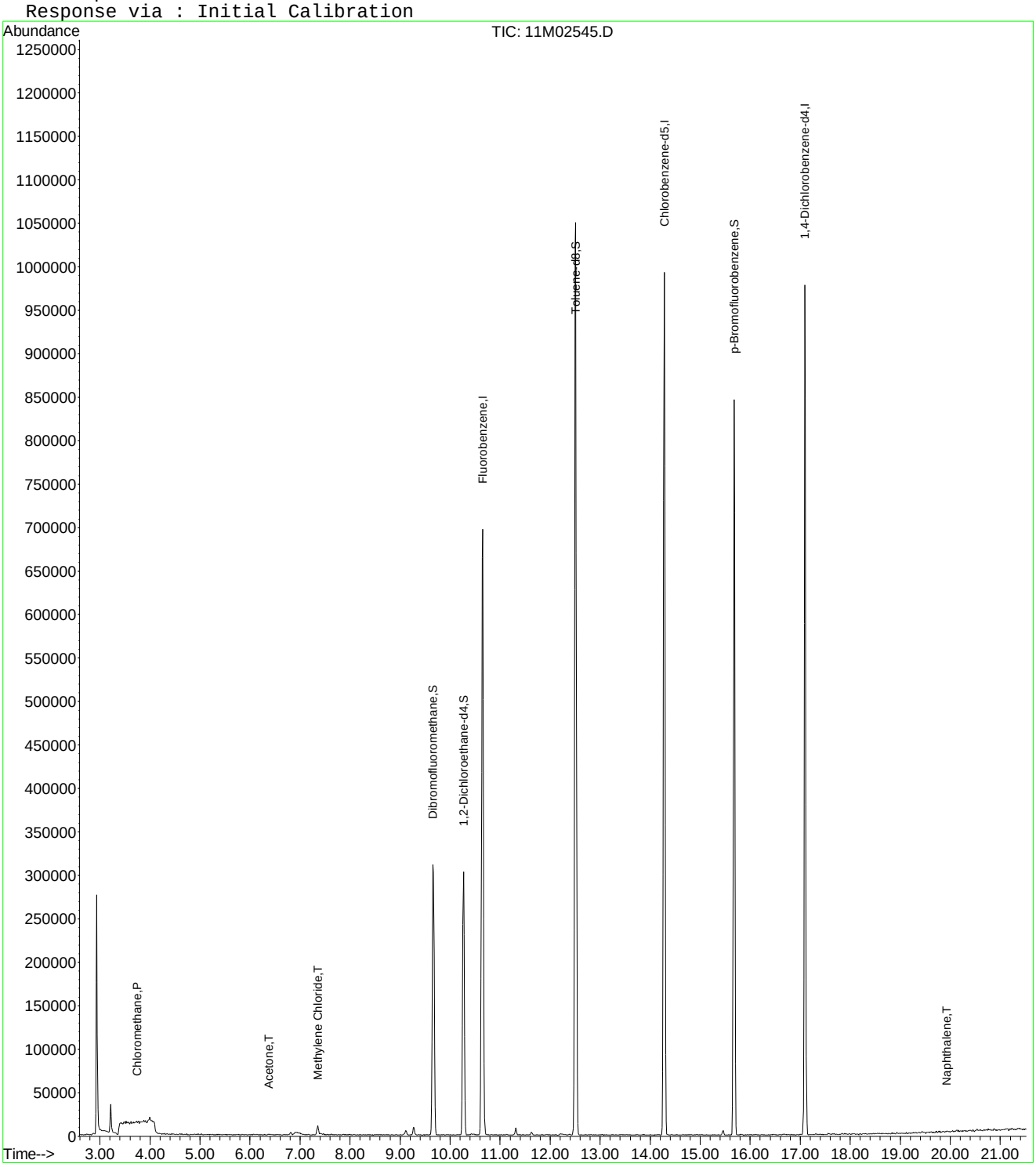
					Qvalue
3) Chloromethane	3.74	50	2178	0.1329 ug/L #	42
13) Acetone	6.38	43	1337	0.7636 ug/L #	46
19) Methylene Chloride	7.35	84	7148	0.6082 ug/L	67
98) Naphthalene	19.92	128	254	0.3875 ug/L #	68

(#) = qualifier out of range (m) = manual integration
11M02545.D 8260WTR.M Tue Jul 22 09:56:31 2014 Page 1

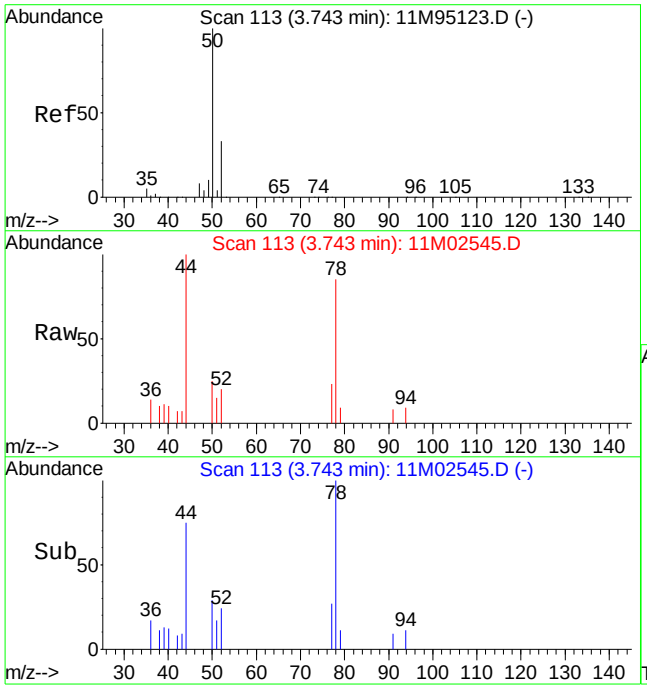
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\071714\11M02545.D Vial: 4
Acq On : 17 Jul 2014 16:29 Operator: ADC
Sample : WG484736-01 VBLK0717 BLANK 8260 Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 9:56 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration



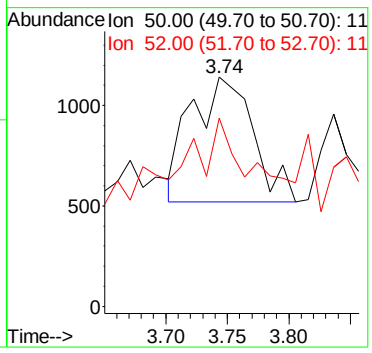
11M02545.D 8260WTR.M Tue Jul 22 09:56:31 2014 Page 2

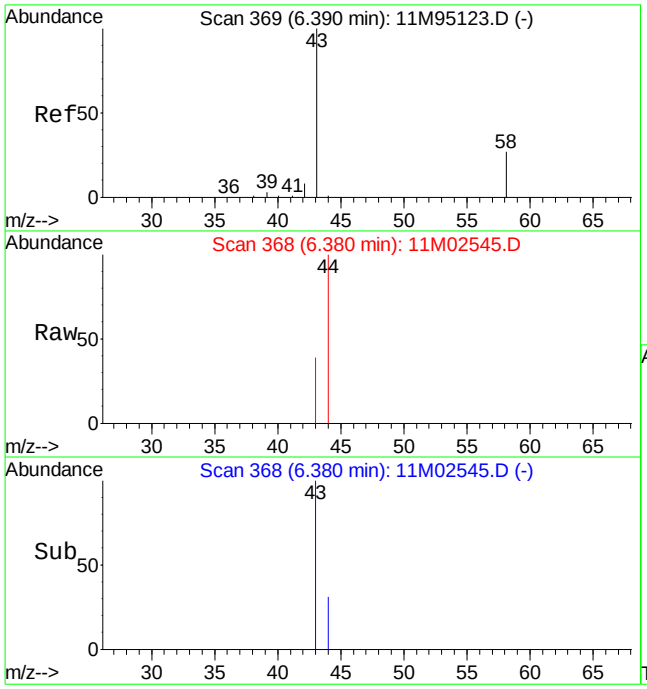


#3
Chloromethane
Concen: 0.13 ug/L
RT: 3.74 min Scan# 113
Delta R.T. 0.00 min
Lab File: 11M02545.D
Acq: 17 Jul 2014 16:29

Tgt Ion: 50 Resp: 2178

Ion	Ratio	Lower	Upper
50	100		
52	0.0	19.4	45.4#

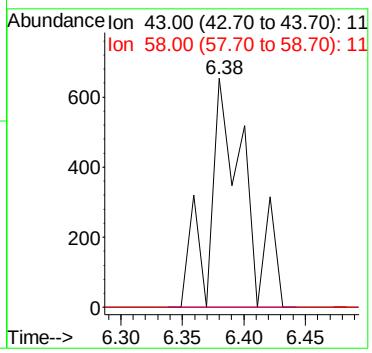


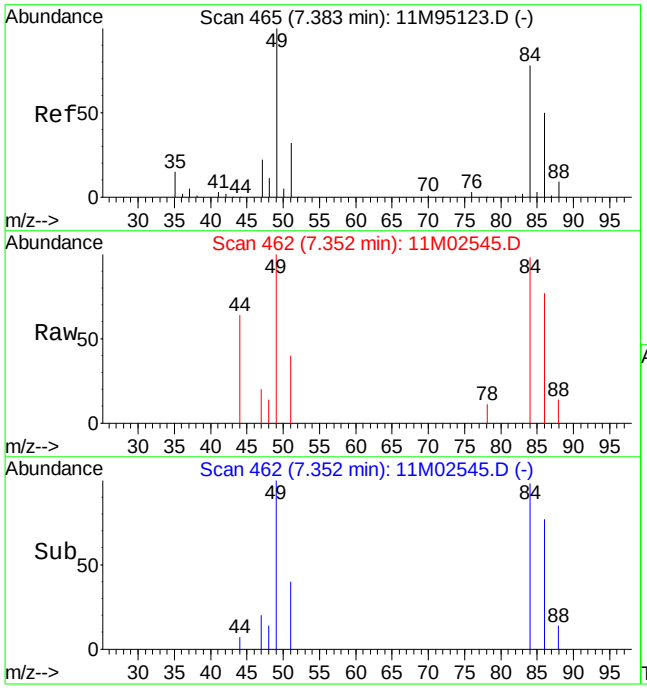


#13
Acetone
Concen: 0.76 ug/L
RT: 6.38 min Scan# 368
Delta R.T. 0.00 min
Lab File: 11M02545.D
Acq: 17 Jul 2014 16:29

Tgt Ion: 43 Resp: 1337

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.2	40.0#

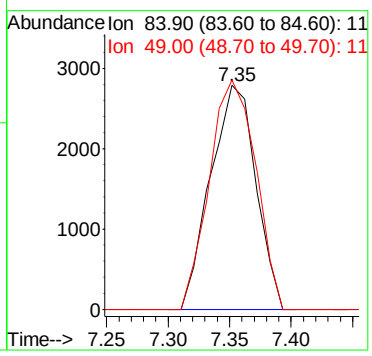


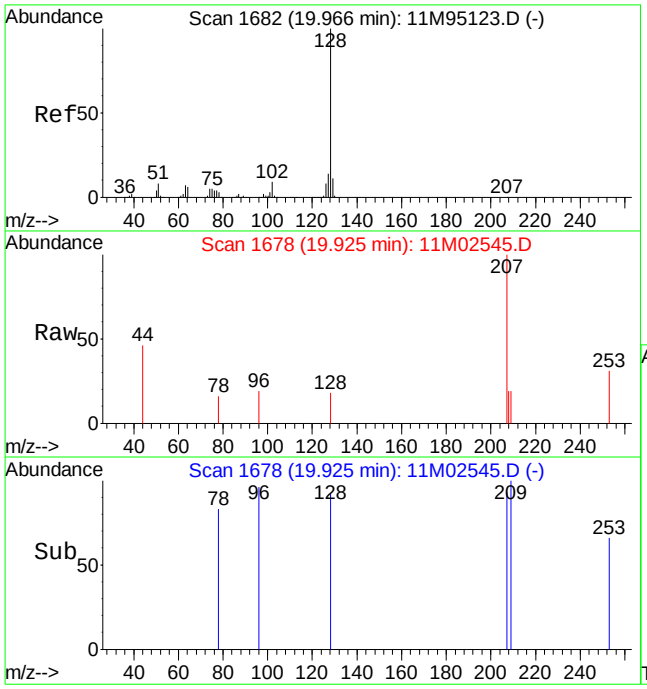


#19
Methylene Chloride
Concen: 0.61 ug/L
RT: 7.35 min Scan# 462
Delta R.T. 0.00 min
Lab File: 11M02545.D
Acq: 17 Jul 2014 16:29

Tgt Ion: 84 Resp: 7148

Ion	Ratio	Lower	Upper
84	100		
49	104.8	87.4	203.8

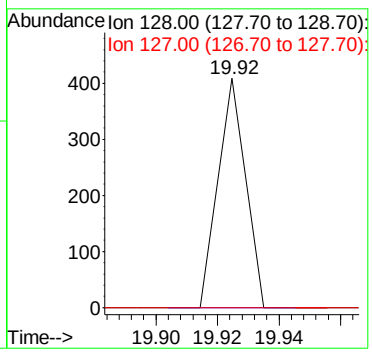




#98
Naphthalene
Concen: 0.39 ug/L
RT: 19.92 min Scan# 1678
Delta R.T. -0.01 min
Lab File: 11M02545.D
Acq: 17 Jul 2014 16:29

Tgt Ion:128 Resp: 254

Ion	Ratio	Lower	Upper
128	100		
127	0.0	11.5	14.1#



Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006953.D
Acq On : 17 Jul 2014 21:16
Operator : ADC
Sample : WG484692-01 VBLK 0717 8260
Misc : 1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 22 16:28:48 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

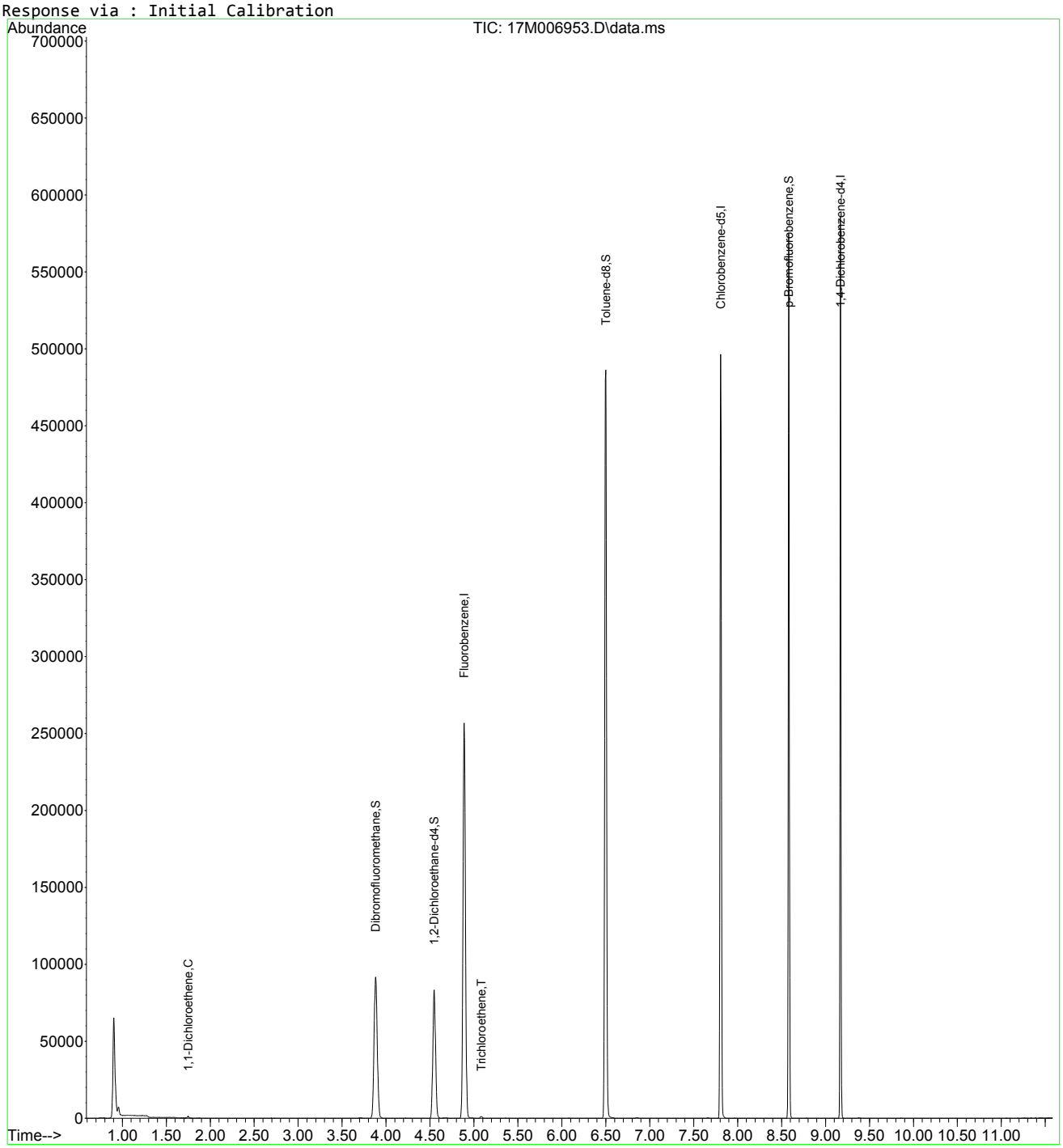
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.889	96	244563	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.808	117	180716	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.172	152	82399	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.879	111	74646	25.1909 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.764%		
32) 1,2-Dichloroethane-d4	4.548	65	68231	23.8251 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 95.300%		
44) Toluene-d8	6.499	98	280705	26.3651 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 105.460%		
63) p-Bromofluorobenzene	8.581	95	98721	27.4988 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 109.995%		
Target Compounds					Qvalue
10) 1,1-Dichloroethene	1.748	61	562	0.1549 ug/L	88
34) Trichloroethene	5.086	130	434	0.1357 ug/L #	38

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

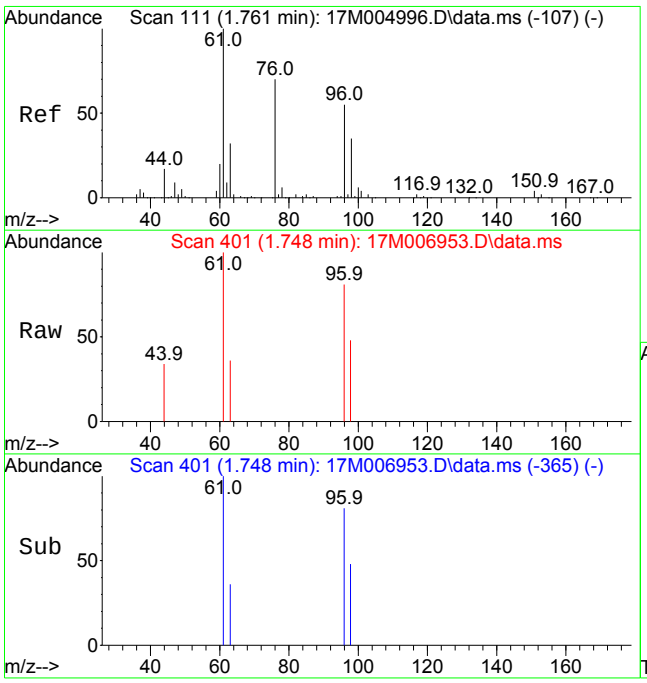
Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006953.D
Acq On : 17 Jul 2014 21:16
Operator : ADC
Sample : WG484692-01 VBLK 0717 8260
Misc : 1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 22 16:28:48 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



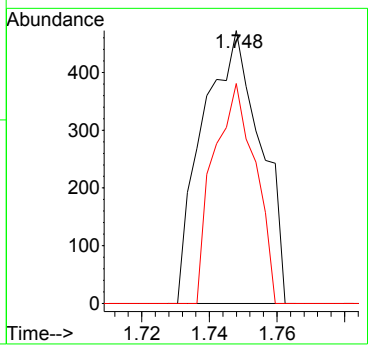
8260-VMS.M Tue Jul 22 16:28:49 2014 Page: 2

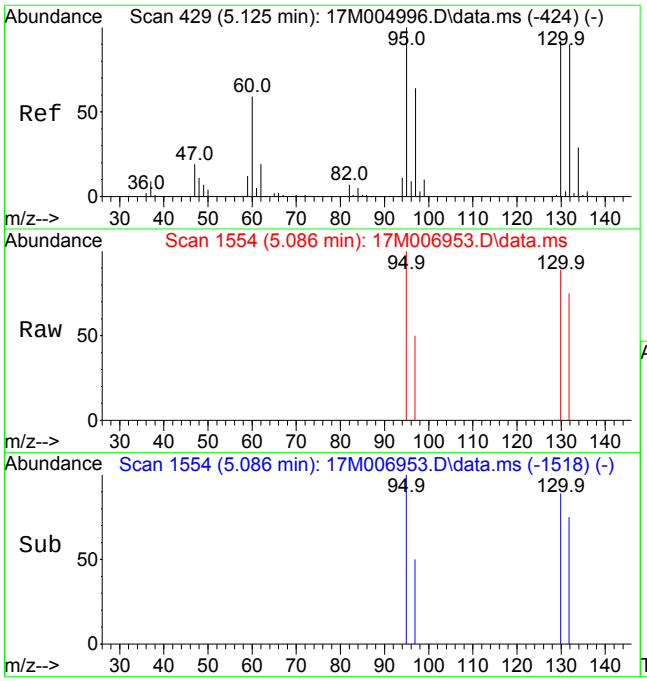


#10
1,1-Dichloroethene
Concen: 0.1549 ug/L
RT: 1.748 min Scan# 401
Delta R.T. 0.003 min
Lab File: 17M006953.D
Acq: 17 Jul 2014 21:16

Tgt Ion: 61 Resp: 562

Ion	Ratio	Lower	Upper
61	100		
96	58.0	53.8	80.8

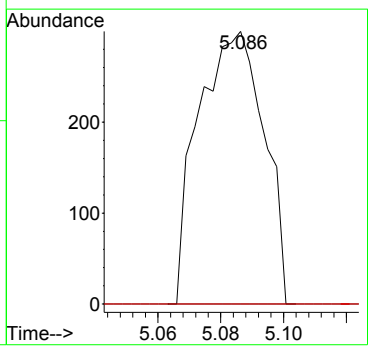




#34
Trichloroethene
Concen: 0.1357 ug/L
RT: 5.086 min Scan# 1554
Delta R.T. 0.003 min
Lab File: 17M006953.D
Acq: 17 Jul 2014 21:16

Tgt Ion:130 Resp: 434

Ion	Ratio	Lower	Upper
130	100		
60	0.0	22.2	51.8#



Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964784.D Vial: 3
Acq On : 18 Jul 2014 17:41 Operator: FJB
Sample : WG484906-01 VBLK0718 BLANK 8260 Inst : HPMS9
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 09:25:36 2014 Quant Results File: 8260WTR.RES

Quant Method : K:\ORGANICS\V...\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

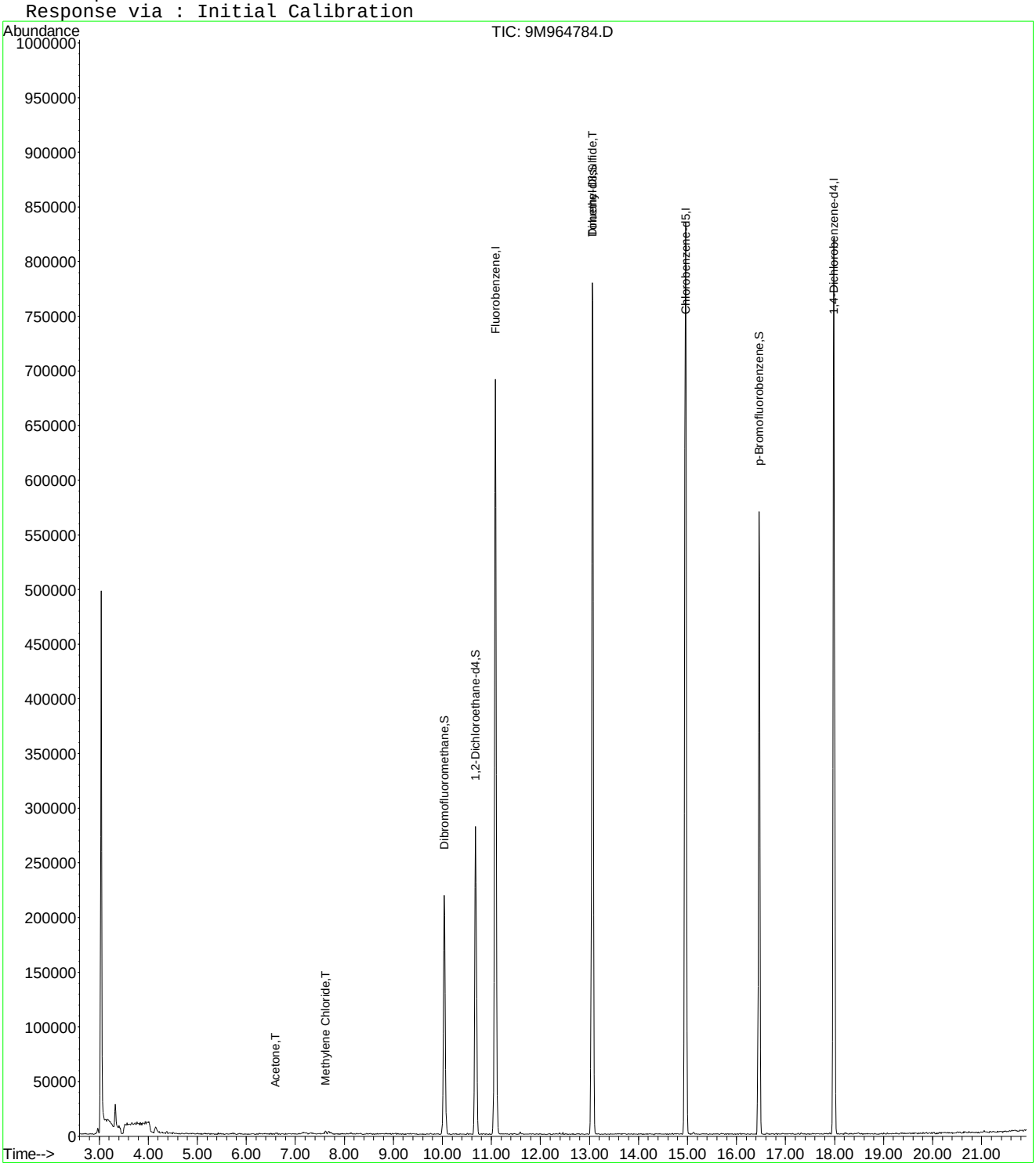
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	801201	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	552690	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	273288	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.04	111	186619	21.9630 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 87.84%		
43) 1,2-Dichloroethane-d4	10.68	65	242039	21.2984 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 85.20%		
58) Toluene-d8	13.06	98	689908	25.2659 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.08%		
79) p-Bromofluorobenzene	16.46	95	245344	24.8825 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.52%		
Target Compounds					Qvalue
13) Acetone	6.59	43	1416	0.4200 ug/L #	39
19) Methylene Chloride	7.62	84	1116	0.1241 ug/L	55
56) Dimethyl Disulfide	13.06	94	18876	1.2463 ug/L #	28

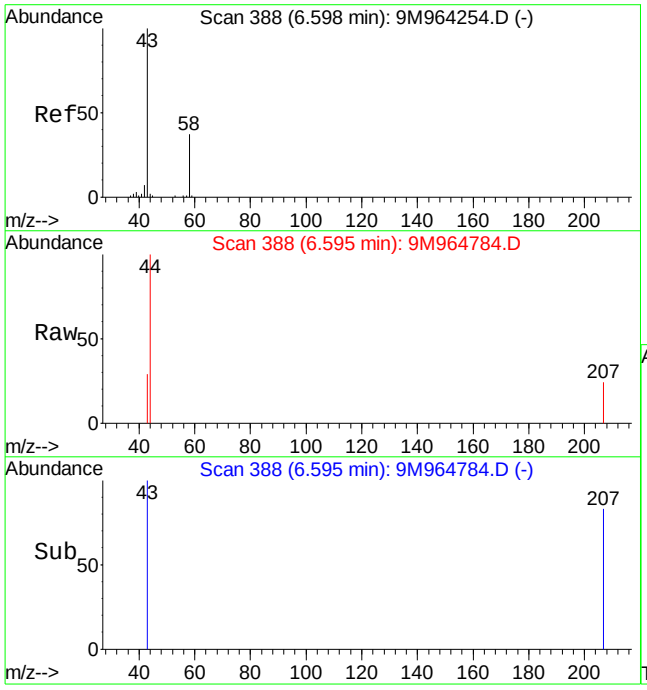
(#) = qualifier out of range (m) = manual integration
9M964784.D 8260WTR.M Tue Jul 22 09:25:40 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964784.D Vial: 3
Acq On : 18 Jul 2014 17:41 Operator: FJB
Sample : WG484906-01 VBLK0718 BLANK 8260 Inst : HPMS9
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 9:25 2014 Quant Results File: 8260WTR.RES

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration

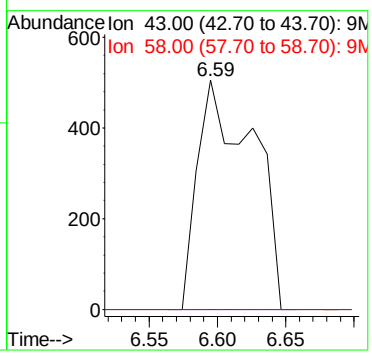


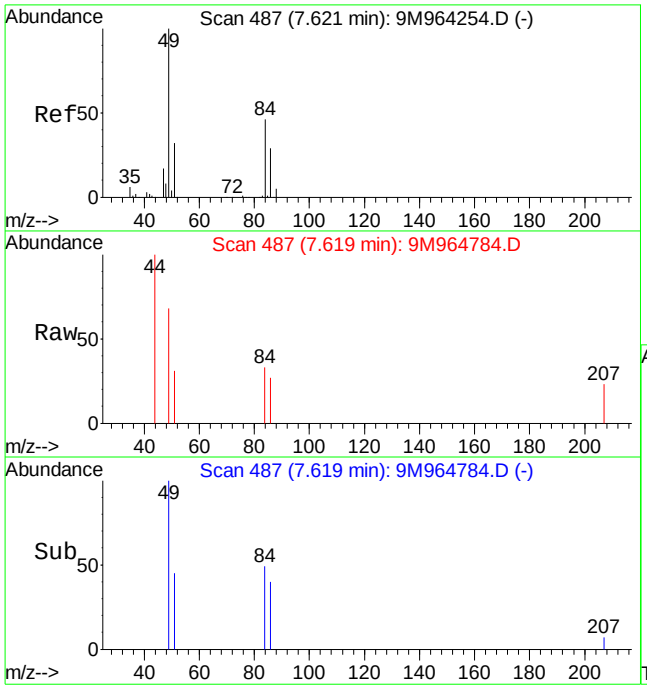


#13
Acetone
Concen: 0.42 ug/L
RT: 6.59 min Scan# 388
Delta R.T. -0.00 min
Lab File: 9M964784.D
Acq: 18 Jul 2014 17:41

Tgt Ion: 43 Resp: 1416

Ion	Ratio	Lower	Upper
43	100		
58	0.0	21.4	49.8#

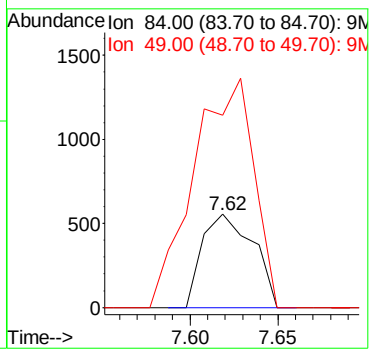


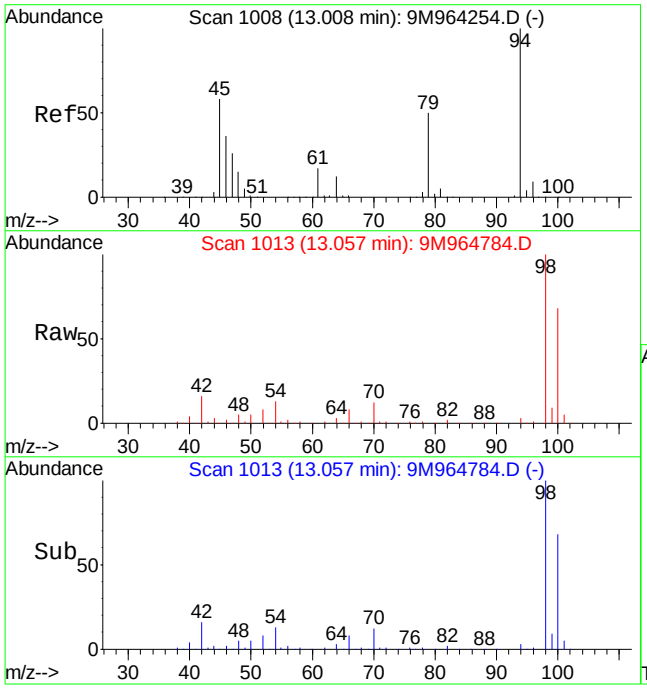


#19
Methylene Chloride
Concen: 0.12 ug/L
RT: 7.62 min Scan# 487
Delta R.T. -0.00 min
Lab File: 9M964784.D
Acq: 18 Jul 2014 17:41

Tgt Ion: 84 Resp: 1116

Ion	Ratio	Lower	Upper
84	100		
49	290.2	130.7	304.9

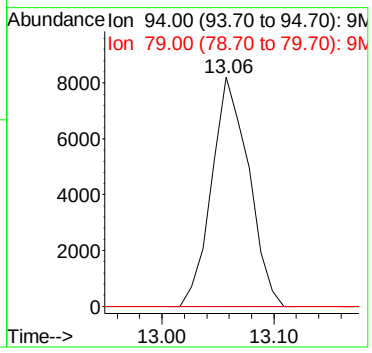




#56
Dimethyl Disulfide
Concen: 1.25 ug/L
RT: 13.06 min Scan# 1013
Delta R.T. 0.05 min
Lab File: 9M964784.D
Acq: 18 Jul 2014 17:41

Tgt Ion: 94 Resp: 18876

Ion	Ratio	Lower	Upper
94	100		
79	0.0	29.8	69.6#



Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964807.D Vial: 26
Acq On : 19 Jul 2014 4:54 Operator: FJB
Sample : WG484906-04 624 BLANK Inst : HPMS9
Misc : 2,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 09:27:40 2014 Quant Results File: 8260WTR.RES

Quant Method : K:\ORGANICS\V...\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

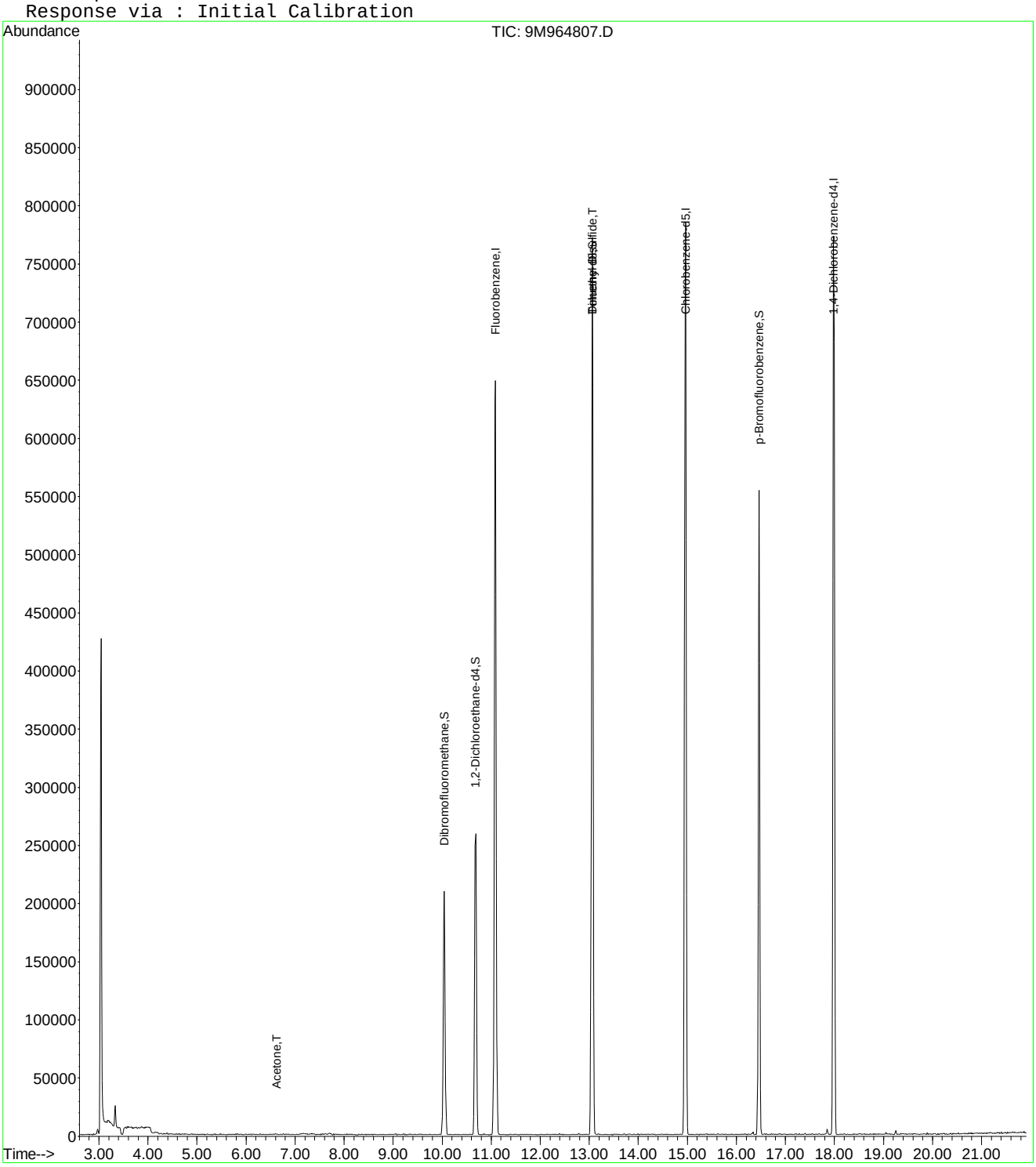
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	775892	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	529445	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.98	152	262034	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.04	111	177263	21.5424 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 86.16%		
43) 1,2-Dichloroethane-d4	10.68	65	231906	21.0724 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 84.28%		
58) Toluene-d8	13.06	98	654889	25.0364 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 100.16%		
79) p-Bromofluorobenzene	16.46	95	237770	25.1500 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.60%		
Target Compounds					Qvalue
13) Acetone	6.62	43	733	0.2245 ug/L #	39
56) Dimethyl Disulfide	13.06	94	18452	1.2580 ug/L #	28

(#) = qualifier out of range (m) = manual integration
9M964807.D 8260WTR.M Tue Jul 22 09:27:43 2014 Page 1

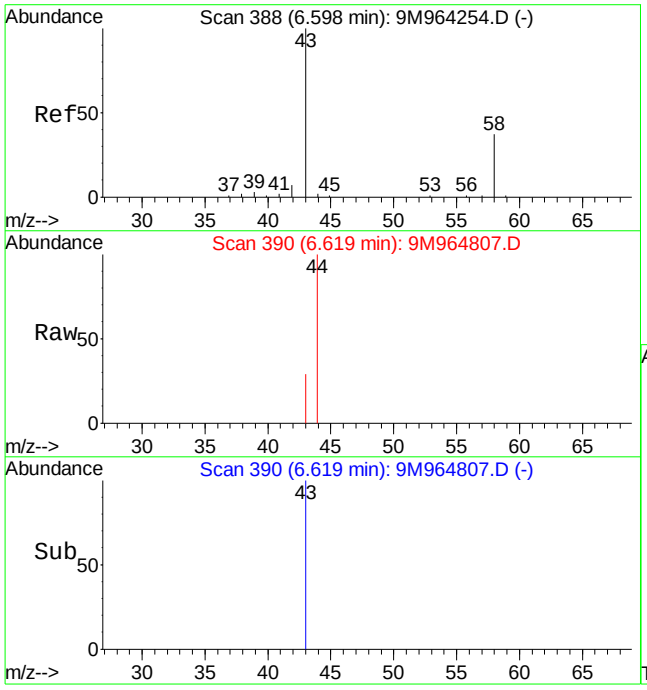
Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964807.D Vial: 26
Acq On : 19 Jul 2014 4:54 Operator: FJB
Sample : WG484906-04 624 BLANK Inst : HPMS9
Misc : 2,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 22 9:27 2014 Quant Results File: 8260WTR.RES

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



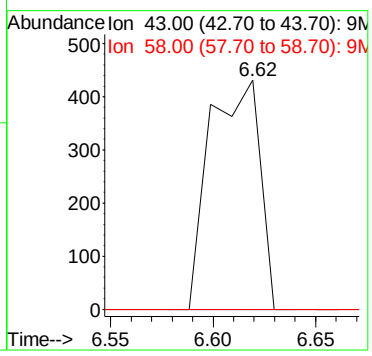
9M964807.D 8260WTR.M Tue Jul 22 09:27:44 2014 Page 2

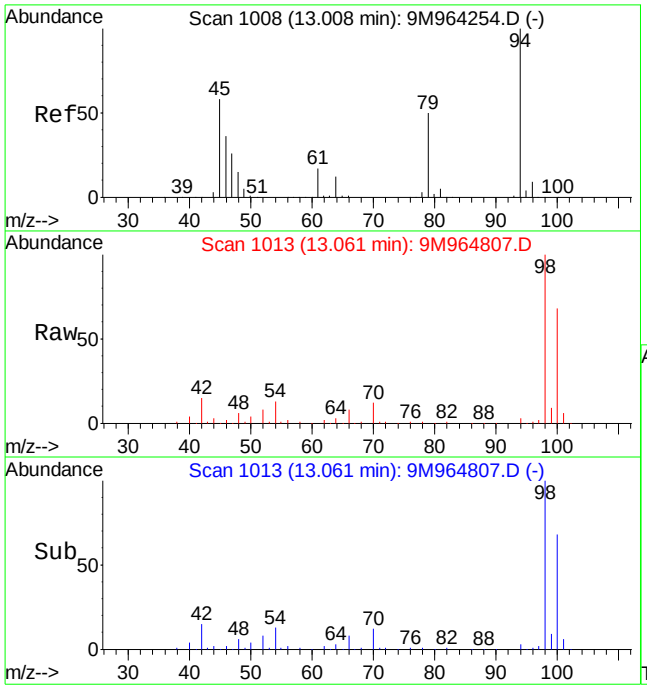


#13
Acetone
Concen: 0.22 ug/L
RT: 6.62 min Scan# 390
Delta R.T. 0.02 min
Lab File: 9M964807.D
Acq: 19 Jul 2014 4:54

Tgt Ion: 43 Resp: 733

Ion	Ratio	Lower	Upper
43	100		
58	0.0	21.4	49.8#

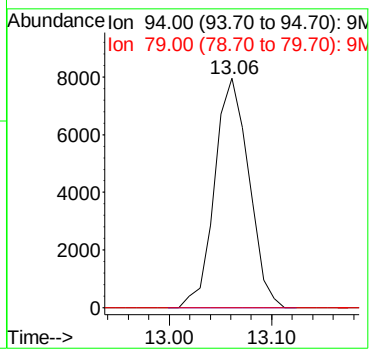




#56
Dimethyl Disulfide
Concen: 1.26 ug/L
RT: 13.06 min Scan# 1013
Delta R.T. 0.05 min
Lab File: 9M964807.D
Acq: 19 Jul 2014 4:54

Tgt Ion: 94 Resp: 18452

Ion	Ratio	Lower	Upper
94	100		
79	0.0	29.8	69.6#



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\071714\11M02546.D Vial: 5
Acq On : 17 Jul 2014 17:01 Operator: ADC
Sample : WG484736-02 20ug/L LCS 8260 Inst : hpms11
Misc : 1,1 STD65396 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 17 17:23:34 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.65	96	917783	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.28	117	762758	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.09	152	399671	25.00 ug/L	-0.01

System Monitoring Compounds

37) Dibromofluoromethane	9.66	111	283882	24.7678 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.08%		
43) 1,2-Dichloroethane-d4	10.27	65	277324	24.7944 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 99.16%		
57) Toluene-d8	12.51	98	1022544	22.8822 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 91.52%		
78) p-Bromofluorobenzene	15.68	95	395425	22.8835 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 91.52%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	283685	28.5475 ug/L	99
3) Chloromethane	3.74	50	412198	23.7645 ug/L	99
4) Vinyl Chloride	3.97	62	313076	20.0309 ug/L	100
5) 1,3-Butadiene	4.01	54	122218	7.6351 ug/L	91
6) Bromomethane	4.88	94	150828	17.1574 ug/L	96
7) Chloroethane	5.04	64	170285	21.7083 ug/L	94
8) Trichlorofluoromethane	5.52	101	421892	22.8643 ug/L	99
9) Diethyl ether	6.04	59	896995	119.2229 ug/L	95
10) Isoprene	6.08	67	378839	23.5121 ug/L	87
11) Acrolein	6.28	56	122587	127.8734 ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	6.29	101	248942	21.9206 ug/L	98
13) Acetone	6.38	43	48384	26.1066 ug/L	97
14) 1,1-Dichloroethene	6.60	61	341526	20.3153 ug/L	88
15) Tert-Butyl Alcohol	6.70	59	138787	286.8152 ug/L	97
16) Dimethyl Sulfide	6.86	62	279613	23.7855 ug/L	92
17) Iodomethane	7.10	142	114345	8.9938 ug/L	99
18) Methyl acetate	7.10	43	120618	20.5839 ug/L	92
19) Methylene Chloride	7.35	84	252829	20.3239 ug/L	82
20) Carbon Disulfide	7.40	76	754290	21.4217 ug/L	100
21) Acrylonitrile	7.53	53	63648	25.1269 ug/L	98
22) Methyl Tert Butyl Ether	7.56	73	634324	24.8816 ug/L	94
23) trans-1,2-Dichloroethene	7.79	96	256274	20.8563 ug/L	85
24) n-Hexane	7.86	57	329443	23.1291 ug/L	94
25) Diisopropyl ether	8.18	45	3890061	117.0249 ug/L	97
26) Vinyl Acetate	8.34	43	324612	35.9733 ug/L	97
27) 1,1-Dichloroethane	8.39	63	420177	20.8651 ug/L	99
28) Ethyl-Tert-Butyl ether	8.73	59	3682037	120.1511 ug/L	97
29) 2-Butanone	8.91	43	71322	26.8380 ug/L	92
30) Propionitrile	9.02	54	106666	123.0505 ug/L	97
31) 2,2-Dichloropropane	9.12	77	386892	21.4209 ug/L	99
32) cis-1,2-Dichloroethene	9.19	96	275278	20.6398 ug/L	86
33) Chloroform	9.39	83	431119	20.8885 ug/L	99
34) 1-Bromopropane	9.51	122	62378	27.8682 ug/L	99
35) Bromochloromethane	9.61	130	164469	21.3941 ug/L	85
36) Tetrahydrofuran	9.64	42	225773	130.8212 ug/L	91
38) 1,1,1-Trichloroethane	9.90	97	401045	20.9610 ug/L	97
39) Cyclohexane	9.93	56	414411	23.1247 ug/L	87
40) 1,1-Dichloropropene	10.08	75	337757	21.1011 ug/L	99
41) Carbon Tetrachloride	10.22	117	373732	21.7383 ug/L	99
42) Tert-Amyl-Methyl ether	10.16	73	3274974	123.3141 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\071714\11M02546.D Vial: 5
Acq On : 17 Jul 2014 17:01 Operator: ADC
Sample : WG484736-02 20ug/L LCS 8260 Inst : hpms11
Misc : 1,1 STD65396 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 17 17:23:34 2014 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

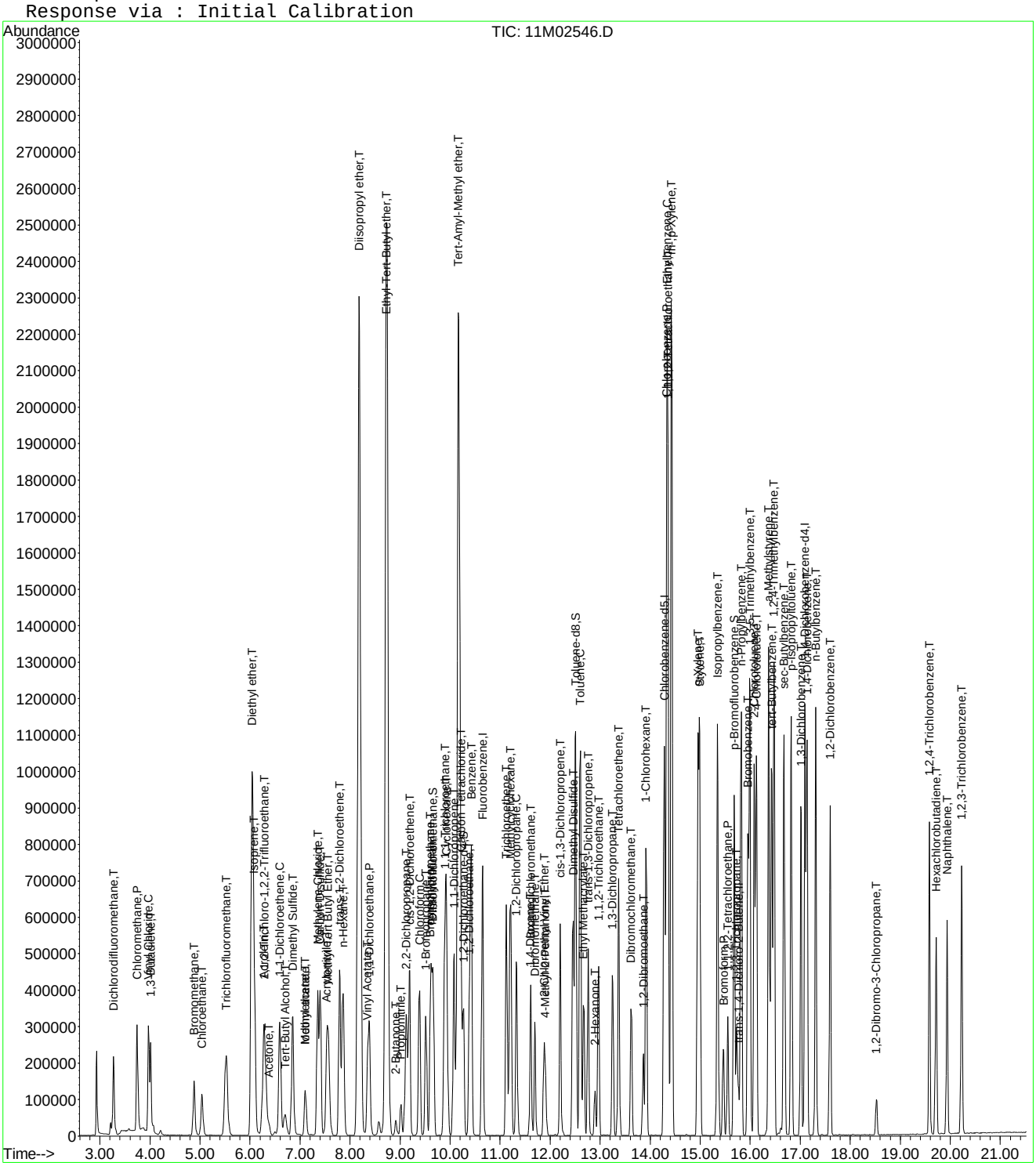
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	1,2-Dichloroethane	10.38	62	305275	21.0441	ug/L		98
45)	Benzene	10.42	78	968444	21.7460	ug/L		99
46)	Trichloroethene	11.13	130	279748	20.3298	ug/L		96
47)	Methylcyclohexane	11.21	83	424431	23.3757	ug/L		92
48)	1,2-Dichloropropane	11.32	63	238702	21.5134	ug/L		99
49)	1,4-Dioxane	11.60	88	16346	242.3253	ug/L		91
50)	Bromodichloromethane	11.61	83	322239	20.8792	ug/L		100
51)	Dibromomethane	11.69	93	136308	21.5511	ug/L		96
52)	2-Chloroethyl Vinyl Ether	11.88	63	116079	22.9650	ug/L		97
53)	4-Methyl-2-Pentanone	11.90	58	61120	26.1624	ug/L		97
54)	cis-1,3-Dichloropropene	12.20	75	398164	22.9635	ug/L		100
55)	Dimethyl Disulfide	12.46	79	227313	23.3412	ug/L		94
58)	Toluene	12.60	91	1036782	20.1595	ug/L		99
59)	Ethyl Methacrylate	12.67	69	255847	24.1275	ug/L		89
60)	trans-1,3-Dichloropropene	12.76	75	321870	19.4383	ug/L		96
61)	1,1,2-Trichloroethane	12.97	97	186794	19.1766	ug/L		98
62)	2-Hexanone	12.89	43	97801	24.3385	ug/L		99
63)	1,3-Dichloropropane	13.25	76	324098	19.3492	ug/L		92
64)	Tetrachloroethene	13.37	164	210942	18.1851	ug/L		97
65)	Dibromochloromethane	13.62	129	247712	20.1609	ug/L		99
66)	1,2-Dibromoethane	13.87	107	187554	19.4371	ug/L		100
67)	1-Chlorohexane	13.92	91	359207	21.3996	ug/L		88
68)	Chlorobenzene	14.33	112	668381	18.0900	ug/L		99
69)	1,1,1,2-Tetrachloroethane	14.35	131	254632	18.4356	ug/L		98
70)	Ethylbenzene	14.34	106	382419	18.4047	ug/L		99
71)	m-,p-Xylene	14.42	106	906413	38.8407	ug/L		97
72)	o-Xylene	14.95	106	422821	17.7097	ug/L		97
73)	Styrene	14.99	104	716061	20.0230	ug/L		96
74)	Bromoform	15.47	173	146462	20.5543	ug/L		98
75)	Isopropylbenzene	15.34	105	1063561	19.4210	ug/L		99
77)	1,1,2,2-Tetrachloroethane	15.55	83	207740	19.3398	ug/L		98
79)	1,2,3-Trichloropropane	15.73	110	64211	19.6922	ug/L		82
80)	trans-1,4-Dichloro-2-Buten	15.77	53	33704	11.7878	ug/L	#	20
81)	n-Propylbenzene	15.82	91	1222970	18.1541	ug/L		99
82)	Bromobenzene	15.95	156	290511	18.0631	ug/L		94
83)	1,3,5-Trimethylbenzene	16.00	105	970613	20.4501	ug/L		97
84)	2-Chlorotoluene	16.08	91	758177	17.8272	ug/L		94
85)	4-Chlorotoluene	16.12	91	740471	17.2805	ug/L		96
86)	a-Methylstyrene	16.37	118	543019	20.5979	ug/L		99
87)	tert-Butylbenzene	16.43	134	188354	17.5720	ug/L		83
88)	1,2,4-Trimethylbenzene	16.47	105	976946	20.5137	ug/L		99
89)	sec-Butylbenzene	16.68	105	1100205	19.2323	ug/L		100
90)	p-Isopropyltoluene	16.82	119	932914	19.3547	ug/L		98
91)	1,3-Dichlorobenzene	17.02	146	505197	17.3378	ug/L		97
92)	1,4-Dichlorobenzene	17.13	146	541811	18.5655	ug/L		97
93)	n-Butylbenzene	17.31	91	862934	21.6370	ug/L		100
94)	1,2-Dichlorobenzene	17.60	146	472741	17.6717	ug/L		97
95)	1,2-Dibromo-3-Chloropropan	18.52	75	31811	20.3673	ug/L		90
96)	1,2,4-Trichlorobenzene	19.58	180	326133	18.5404	ug/L		95
97)	Hexachlorobutadiene	19.72	225	140236	19.5804	ug/L		98
98)	Naphthalene	19.93	128	578296	20.1226	ug/L		100
99)	1,2,3-Trichlorobenzene	20.22	180	300936	19.2513	ug/L		95

(#) = qualifier out of range (m) = manual integration
11M02546.D 8260WTR.M Thu Jul 17 17:23:35 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\071714\11M02546.D Vial: 5
Acq On : 17 Jul 2014 17:01 Operator: ADC
Sample : WG484736-02 20ug/L LCS 8260 Inst : hpms11
Misc : 1,1 STD65396 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 17 17:23 2014 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/27/14 HPMS11
Last Update : Mon Jun 30 10:39:17 2014
Response via : Initial Calibration



11M02546.D 8260WTR.M Thu Jul 17 17:23:36 2014 Page 3

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006954.D
Acq On : 17 Jul 2014 21:36
Operator : ADC
Sample : WG484692-02 20ug/L LCS 8260
Misc : 1,1 STD65511
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 17 21:47:46 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.886	96	241752	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.808	117	180038	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.171	152	90701	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.879	111	74549	25.4507 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.803%		
32) 1,2-Dichloroethane-d4	4.545	65	66557	23.5108 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 94.043%		
44) Toluene-d8	6.496	98	275817	26.0035 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.014%		
63) p-Bromofluorobenzene	8.581	95	97423	24.6533 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.613%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.980	85	54379	28.1769 ug/L	100
3) Chloromethane	1.085	50	50424	22.0569 ug/L	99
4) Vinyl Chloride	1.125	62	59754	21.7859 ug/L	100
5) 1,3-Butadiene	1.134	54	45770	20.0655 ug/L	100
6) Bromomethane	1.296	94	26174	16.2855 ug/L	100
7) Chloroethane	1.360	64	27744	17.0666 ug/L	91
8) Trichlorofluoromethane	1.429	101	83777	21.7034 ug/L	100
9) Diethyl ether	1.632	59	193721	104.8024 ug/L	99
10) 1,1-Dichloroethene	1.739	61	69022	19.2505 ug/L	98
11) Carbon Disulfide	1.753	76	117584	15.3819 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.765	101	49219	19.7720 ug/L	96
13) Acrolein	1.968	56	26829	119.8254 ug/L	95
14) Methylene Chloride	2.133	84	53568	19.6874 ug/L	98
15) Acetone	2.176	43	10372	22.5628 ug/L	100
16) trans-1,2-Dichloroethene	2.251	96	51754	20.2348 ug/L	100
17) Methyl Tert Butyl Ether	2.341	73	143754	21.5765 ug/L	100
18) 1,1-Dichloroethane	2.761	63	88562	19.7795 ug/L	100
19) Acrylonitrile	2.816	53	6227	10.5553 ug/L	99
20) Vinyl Acetate	3.030	86	3929	19.2821 ug/L	96
21) cis-1,2-Dichloroethene	3.308	96	58799	20.2088 ug/L	99
22) 2,2-Dichloropropane	3.418	77	63577	16.4080 ug/L	99
23) Cyclohexane	3.517	56	83039	20.4293 ug/L #	79
24) Bromochloromethane	3.531	130	38279	20.5980 ug/L	99
25) Chloroform	3.650	83	94426	19.8152 ug/L	100
26) Carbon Tetrachloride	3.780	117	76448	20.0161 ug/L	99
28) 1,1,1-Trichloroethane	3.873	97	84640	19.6114 ug/L	100
29) 1,1-Dichloropropene	4.047	75	67942	19.7415 ug/L	99
30) 2-Butanone	4.061	43	15258	21.1440 ug/L	97
31) Benzene	4.368	78	211528	20.4573 ug/L	100
33) 1,2-Dichloroethane	4.629	62	62685	20.1253 ug/L	99
34) Trichloroethene	5.080	130	67376	21.3111 ug/L	100
35) Dibromomethane	5.514	93	32259	20.6930 ug/L	99
36) 1,2-Dichloropropane	5.616	63	56690	20.6535 ug/L	99
37) Bromodichloromethane	5.720	83	72263	19.6176 ug/L	100
38) 1,4-Dioxane	5.923	88	2653	132.0603 ug/L	94
39) 2-Chloroethyl Vinyl Ether	6.314	63	29842	20.9505 ug/L	99
40) cis-1,3-Dichloropropene	6.334	75	86058	20.1620 ug/L	100
41) 4-Methyl-2-Pentanone	6.919	58	15023	21.3153 ug/L	98
42) trans-1,3-Dichloropropene	6.945	75	69802	18.7720 ug/L	99
45) Toluene	6.542	91	242493	20.3223 ug/L	99
46) Tetrachloroethene	6.884	166	64609	19.1854 ug/L	100
47) 1,1,2-Trichloroethane	7.078	97	45096	19.7876 ug/L	99
48) Dibromochloromethane	7.220	129	60383	19.9903 ug/L	100
49) 1,3-Dichloropropane	7.301	76	72479	20.0584 ug/L	99

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006954.D
Acq On : 17 Jul 2014 21:36
Operator : ADC
Sample : WG484692-02 20ug/L LCS 8260
Misc : 1,1 STD65511
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 17 21:47:46 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

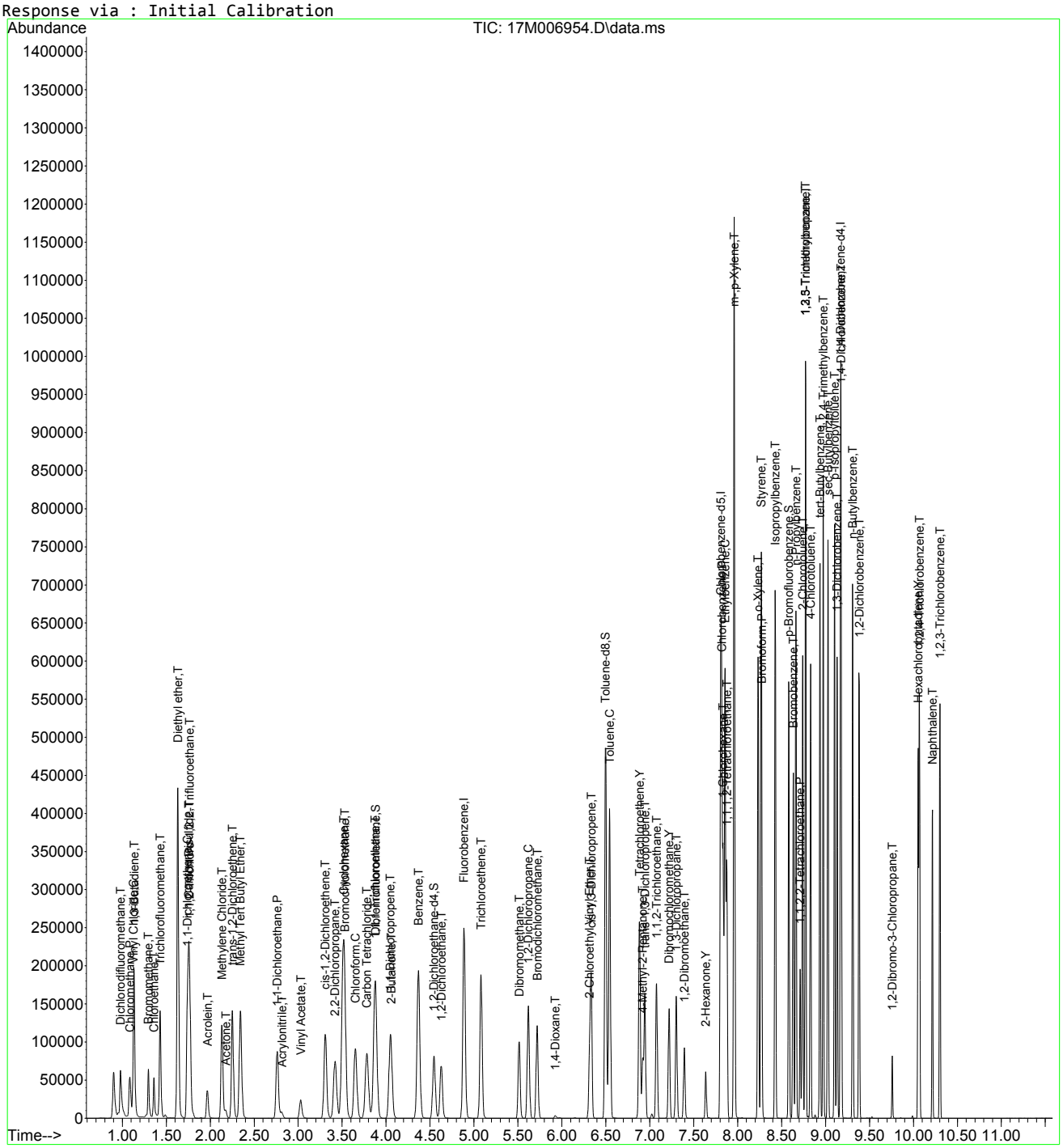
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50)	1,2-Dibromoethane	7.394	107	46174	19.9950 ug/L	99
51)	2-Hexanone	7.637	43	24355	20.3324 ug/L	98
52)	Chlorobenzene	7.819	112	151429	18.8261 ug/L	99
53)	1-Chlorohexane	7.834	69	13592	20.8798 ug/L	89
54)	Ethylbenzene	7.857	106	87021	20.1537 ug/L	99
55)	1,1,1,2-Tetrachloroethane	7.877	131	59680	19.8769 ug/L	100
56)	m-,p-Xylene	7.961	106	203480	39.9443 ug/L	99
57)	o-Xylene	8.233	106	96311	18.7048 ug/L	99
58)	Styrene	8.268	104	168529	20.2690 ug/L	99
59)	Bromoform	8.274	173	43428	20.3995 ug/L	100
60)	Isopropylbenzene	8.427	105	248644	19.0356 ug/L	100
62)	1,3,5-Trimethylbenzene	8.772	105	235921	21.2993 ug/L	100
64)	Bromobenzene	8.633	156	73626	20.3975 ug/L	99
65)	n-Propylbenzene	8.662	91	278393	19.2459 ug/L	99
66)	1,1,2,2-Tetrachloroethane	8.711	83	49879	18.4468 ug/L	100
67)	2-Chlorotoluene	8.740	91	172327	19.3981 ug/L	99
68)	1,2,3-Trichloropropane	8.772	110	14853	20.0730 ug/L	97
69)	1,2,4-Trimethylbenzene	8.974	105	232356	21.1938 ug/L	99
70)	4-Chlorotoluene	8.830	91	171052	18.9446 ug/L	100
71)	tert-Butylbenzene	8.937	134	40708	18.9420 ug/L	98
72)	sec-Butylbenzene	9.027	105	265716	19.6653 ug/L	100
73)	p-Isopropyltoluene	9.102	119	221463	19.4824 ug/L	100
74)	1,3-Dichlorobenzene	9.131	146	124983	19.3395 ug/L	100
75)	1,4-Dichlorobenzene	9.177	146	136577	20.9059 ug/L	100
76)	n-Butylbenzene	9.307	91	196233	21.0732 ug/L	99
77)	1,2-Dichlorobenzene	9.383	146	123743	19.6579 ug/L	100
78)	1,2-Dibromo-3-Chloropr...	9.759	75	9459	20.9308 ug/L	98
79)	Hexachlorobutadiene	10.054	225	48399	17.8095 ug/L	99
80)	1,2,4-Trichlorobenzene	10.069	180	89195	18.5778 ug/L	99
81)	Naphthalene	10.217	128	151966	17.8322 ug/L	100
82)	1,2,3-Trichlorobenzene	10.301	180	82068	19.9807 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006954.D
Acq On : 17 Jul 2014 21:36
Operator : ADC
Sample : WG484692-02 20ug/L LCS 8260
Misc : 1,1 STD65511
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 17 21:47:46 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



8260-VMS.M Thu Jul 17 21:47:47 2014 Page: 3

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964792.D Vial: 11
Acq On : 18 Jul 2014 21:36 Operator: FJB
Sample : WG484906-02 20ug/L LCS 8260 Inst : HPMS9
Misc : 1,1 STD65450 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 19 10:23:20 2014 Quant Results File: 8260WTR.RES

Quant Method : K:\ORGANICS\V...\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	756048	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	524449	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	262007	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	10.04	111	177846	22.1805 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 88.72%		
43) 1,2-Dichloroethane-d4	10.68	65	232133	21.6467 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 86.60%		
58) Toluene-d8	13.06	98	660251	25.4819 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.92%		
79) p-Bromofluorobenzene	16.46	95	238185	25.1965 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.80%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.39	85	141558	22.9487 ug/L	99
3) Chloromethane	3.88	50	319918	18.8287 ug/L	98
4) Vinyl Chloride	4.12	62	224424	19.9892 ug/L	99
5) 1,3-Butadiene	4.17	54	147124	16.3169 ug/L	98
6) Bromomethane	5.05	94	125678	18.2380 ug/L	99
7) Chloroethane	5.22	64	136182	19.3762 ug/L	97
8) Trichlorofluoromethane	5.72	101	206487	17.7954 ug/L	99
9) Diethyl ether	6.25	59	1026205	98.3765 ug/L	97
10) Isoprene	6.30	67	225480	20.2905 ug/L	95
11) Acrolein	6.50	56	157955	75.8465 ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.52	101	110604	16.6354 ug/L	97
13) Acetone	6.61	43	66360	20.8571 ug/L	99
14) 1,1-Dichloroethene	6.83	61	258768	16.1233 ug/L	99
15) Tert-Butyl Alcohol	6.94	59	218806	188.7010 ug/L	96
16) Dimethyl Sulfide	7.10	62	257479	20.4899 ug/L	97
17) Iodomethane	7.36	142	119343	13.2776 ug/L	99
18) Methyl acetate	7.36	43	176083	16.9212 ug/L	98
19) Methylene Chloride	7.62	84	155746	18.3576 ug/L	93
20) Carbon Disulfide	7.68	76	387961	17.1329 ug/L	100
21) Acrylonitrile	7.79	53	98406	19.3214 ug/L	97
22) Methyl Tert Butyl Ether	7.84	73	467583	20.6115 ug/L	97
23) trans-1,2-Dichloroethene	8.07	61	276814	17.4920 ug/L	99
24) n-Hexane	8.15	57	243802	15.2303 ug/L	99
25) Diisopropyl ether	8.49	45	4083519	95.6595 ug/L	99
26) Vinyl Acetate	8.66	43	154011	9.9731 ug/L	100
27) 1,1-Dichloroethane	8.69	63	336999	17.1817 ug/L	100
28) Ethyl-Tert-Butyl ether	9.07	59	3811864	98.8021 ug/L	100
29) 2-Butanone	9.25	43	98380	19.2823 ug/L	96
30) Propionitrile	9.36	54	175623	97.3062 ug/L	98
31) 2,2-Dichloropropane	9.48	77	163932	13.5559 ug/L	100
32) cis-1,2-Dichloroethene	9.54	96	157468	17.3072 ug/L	97
33) Chloroform	9.75	83	260211	17.5545 ug/L	98
34) 1-Bromopropane	9.88	122	32764	24.3976 ug/L	95
35) Bromochloromethane	9.99	130	93167	16.7607 ug/L	98
36) Tetrahydrofuran	10.01	42	327359	94.8851 ug/L	95
38) 1,1,1-Trichloroethane	10.29	97	222929	17.5107 ug/L	99
39) Cyclohexane	10.32	56	396163	18.6255 ug/L	99
40) 1,1-Dichloropropene	10.48	75	178640	16.7398 ug/L	96
41) Tert-Amyl-Methyl ether	10.58	73	2350158	102.3350 ug/L	97
42) Carbon Tetrachloride	10.63	117	187777	16.7710 ug/L	100

(#) = qualifier out of range (m) = manual integration
9M964792.D 8260WTR.M Sat Jul 19 10:23:22 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964792.D Vial: 11
Acq On : 18 Jul 2014 21:36 Operator: FJB
Sample : WG484906-02 20ug/L LCS 8260 Inst : HPMS9
Misc : 1,1 STD65450 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 19 10:23:20 2014 Quant Results File: 8260WTR.RES

Quant Method : K:\ORGANICS\V...\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

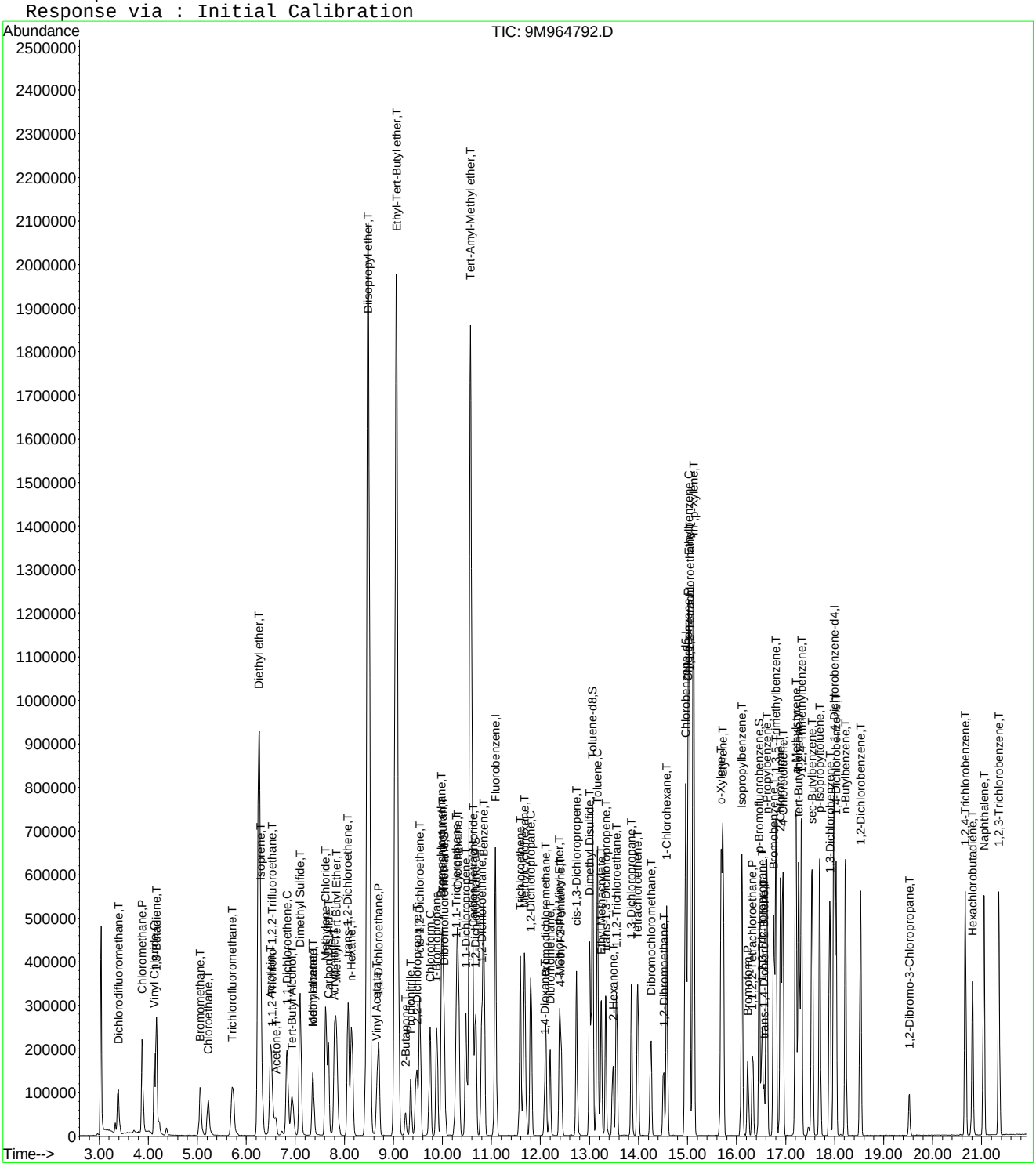
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	1,2-Dichloroethane	10.80	62	255802	18.0819 ug/L		99
46)	Benzene	10.84	78	579744	18.0604 ug/L		97
47)	Trichloroethene	11.59	130	164679	17.9306 ug/L		99
48)	Methylcyclohexane	11.67	83	224762	18.7853 ug/L		97
49)	1,2-Dichloropropane	11.81	63	209070	18.1338 ug/L		99
50)	1,4-Dioxane	12.09	88	14189	168.3811 ug/L		99
51)	Bromodichloromethane	12.11	83	204195	17.9353 ug/L		98
52)	Dibromomethane	12.20	174	94067	17.8345 ug/L		95
53)	2-Chloroethyl Vinyl Ether	12.38	63	129165	20.5860 ug/L		100
54)	4-Methyl-2-Pentanone	12.42	58	91284	19.3461 ug/L		98
55)	cis-1,3-Dichloropropene	12.74	75	243621	18.2392 ug/L		98
56)	Dimethyl Disulfide	13.01	94	306465	21.4423 ug/L		99
59)	Toluene	13.16	91	597182	19.2326 ug/L		99
60)	Ethyl Methacrylate	13.24	69	205356	23.0042 ug/L		97
61)	trans-1,3-Dichloropropene	13.34	75	208688	17.5766 ug/L		99
62)	1,1,2-Trichloroethane	13.55	97	128126	19.2008 ug/L		99
63)	2-Hexanone	13.48	43	145191	20.2436 ug/L		99
64)	1,3-Dichloropropane	13.85	76	225390	19.2187 ug/L		97
65)	Tetrachloroethene	13.99	164	109766	17.0017 ug/L		97
66)	Dibromochloromethane	14.26	129	153768	18.9123 ug/L		98
67)	1,2-Dibromoethane	14.51	107	127853	18.7836 ug/L		97
68)	1-Chlorohexane	14.58	91	184740	20.0080 ug/L		97
69)	Chlorobenzene	15.01	112	363606	17.5038 ug/L		97
70)	1,1,1,2-Tetrachloroethane	15.04	131	145821	18.7040 ug/L		97
71)	Ethylbenzene	15.03	106	210269	18.3682 ug/L		94
72)	m-,p-Xylene	15.12	106	494021	36.6538 ug/L		96
73)	o-Xylene	15.68	106	240225	17.2469 ug/L		98
74)	Styrene	15.72	104	427382	19.4674 ug/L		99
75)	Bromoform	16.23	173	108643	18.2216 ug/L		99
76)	Isopropylbenzene	16.11	105	591810	17.6554 ug/L		99
78)	1,1,2,2-Tetrachloroethane	16.32	83	124551	18.6753 ug/L		96
80)	1,2,3-Trichloropropane	16.52	110	49123	21.3215 ug/L		66
81)	trans-1,4-Dichloro-2-Buten	16.56	53	38714	11.0028 ug/L	#	27
82)	n-Propylbenzene	16.61	91	694814	19.2194 ug/L		98
83)	Bromobenzene	16.76	156	174009	20.4433 ug/L		97
84)	1,3,5-Trimethylbenzene	16.80	105	554631	21.5331 ug/L		98
85)	2-Chlorotoluene	16.89	91	513233	21.1470 ug/L		98
86)	4-Chlorotoluene	16.94	91	372924	17.7338 ug/L		90
87)	a-Methylstyrene	17.21	118	316044	23.4799 ug/L		99
88)	tert-Butylbenzene	17.27	134	109896	19.2289 ug/L		94
89)	1,2,4-Trimethylbenzene	17.33	105	567947	21.2744 ug/L		98
90)	sec-Butylbenzene	17.54	105	632666	19.5486 ug/L		98
91)	p-Isopropyltoluene	17.70	119	513998	19.4086 ug/L		98
92)	1,3-Dichlorobenzene	17.91	146	290432	18.5103 ug/L		99
93)	1,4-Dichlorobenzene	18.03	146	319075	19.7331 ug/L		98
94)	n-Butylbenzene	18.23	91	498521	19.8942 ug/L		98
95)	1,2-Dichlorobenzene	18.53	146	300429	19.4576 ug/L		99
96)	1,2-Dibromo-3-Chloropropan	19.53	157	34709	20.5469 ug/L		94
97)	1,2,4-Trichlorobenzene	20.67	180	223325	19.2470 ug/L		99
98)	Hexachlorobutadiene	20.81	225	103726	17.7349 ug/L		98
99)	Naphthalene	21.05	128	572597	22.6757 ug/L		100
100)	1,2,3-Trichlorobenzene	21.35	180	223521	19.7178 ug/L		99

(#) = qualifier out of range (m) = manual integration
9M964792.D 8260WTR.M Sat Jul 19 10:23:22 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964792.D Vial: 11
Acq On : 18 Jul 2014 21:36 Operator: FJB
Sample : WG484906-02 20ug/L LCS 8260 Inst : HPMS9
Misc : 1,1 STD65450 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 19 10:23 2014 Quant Results File: 8260WTR.RES

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964792.D 8260WTR.M Sat Jul 19 10:23:23 2014 Page 3

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006955.D
Acq On : 17 Jul 2014 21:55
Operator : ADC
Sample : WG484692-03 20ug/L LCSDUP 8260
Misc : 1,1 STD65511
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 17 22:07:30 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.886	96	254918	25.00000 ug/L	0.0000
43) Chlorobenzene-d5	7.808	117	195074	25.00000 ug/L	0.0000
61) 1,4-Dichlorobenzene-d4	9.171	152	100085	25.00000 ug/L	0.0000
System Monitoring Compounds					
27) Dibromofluoromethane	3.882	111	78221	25.3251 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.300%		
32) 1,2-Dichloroethane-d4	4.545	65	69937	23.4288 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 93.715%		
44) Toluene-d8	6.496	98	290978	25.3184 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.274%		
63) p-Bromofluorobenzene	8.581	95	104537	23.9733 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 95.893%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.981	85	57042	28.0302 ug/L	99
3) Chloromethane	1.085	50	53041	22.0033 ug/L	99
4) Vinyl Chloride	1.125	62	62444	21.5908 ug/L	99
5) 1,3-Butadiene	1.134	54	47638	19.8058 ug/L	99
6) Bromomethane	1.296	94	30505	17.9999 ug/L	100
7) Chloroethane	1.360	64	28251	16.4809 ug/L	91
8) Trichlorofluoromethane	1.429	101	87251	21.4360 ug/L	99
9) Diethyl ether	1.629	59	197115	101.1309 ug/L	99
10) 1,1-Dichloroethene	1.739	61	71264	18.8493 ug/L	99
11) Carbon Disulfide	1.754	76	124231	15.4121 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.765	101	51018	19.4362 ug/L	97
13) Acrolein	1.965	56	27128	114.9031 ug/L	95
14) Methylene Chloride	2.133	84	55224	19.2478 ug/L	99
15) Acetone	2.176	43	10367	21.3872 ug/L	100
16) trans-1,2-Dichloroethene	2.252	96	53481	19.8301 ug/L	99
17) Methyl Tert Butyl Ether	2.341	73	145788	20.7517 ug/L	100
18) 1,1-Dichloroethane	2.761	63	91207	19.3181 ug/L	100
19) Acrylonitrile	2.810	53	6277	10.0905 ug/L	99
20) Vinyl Acetate	3.030	86	4452	20.7204 ug/L	92
21) cis-1,2-Dichloroethene	3.311	96	60666	19.7736 ug/L	100
22) 2,2-Dichloropropane	3.421	77	65587	16.0525 ug/L	99
23) Cyclohexane	3.514	56	87162	20.3361 ug/L #	79
24) Bromochloromethane	3.528	130	39353	20.0822 ug/L	100
25) Chloroform	3.653	83	97410	19.3856 ug/L	100
26) Carbon Tetrachloride	3.783	117	78999	19.6157 ug/L	100
28) 1,1,1-Trichloroethane	3.873	97	87874	19.3091 ug/L	100
29) 1,1-Dichloropropene	4.052	75	71420	19.6803 ug/L	98
30) 2-Butanone	4.058	43	15192	19.9652 ug/L	97
31) Benzene	4.368	78	218971	20.0834 ug/L	100
33) 1,2-Dichloroethane	4.626	62	63887	19.4518 ug/L	99
34) Trichloroethene	5.080	130	67835	20.3481 ug/L	99
35) Dibromomethane	5.515	93	32955	20.0476 ug/L	99
36) 1,2-Dichloropropane	5.616	63	57629	19.9112 ug/L	99
37) Bromodichloromethane	5.717	83	73948	19.0382 ug/L	100
38) 1,4-Dioxane	5.923	88	2571	121.3687 ug/L	98
39) 2-Chloroethyl Vinyl Ether	6.314	63	30437	20.2646 ug/L	99
40) cis-1,3-Dichloropropene	6.334	75	88465	19.6555 ug/L	99
41) 4-Methyl-2-Pentanone	6.919	58	14962	20.1323 ug/L	98
42) trans-1,3-Dichloropropene	6.945	75	70572	17.9989 ug/L	100
45) Toluene	6.542	91	249374	19.2882 ug/L	100
46) Tetrachloroethene	6.881	166	67557	18.5146 ug/L	99
47) 1,1,2-Trichloroethane	7.075	97	45437	18.4005 ug/L	99
48) Dibromochloromethane	7.220	129	61591	18.8186 ug/L	100
49) 1,3-Dichloropropane	7.301	76	73747	18.8362 ug/L	99

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006955.D
Acq On : 17 Jul 2014 21:55
Operator : ADC
Sample : WG484692-03 20ug/L LCSDUP 8260
Misc : 1,1 STD65511
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 17 22:07:30 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration

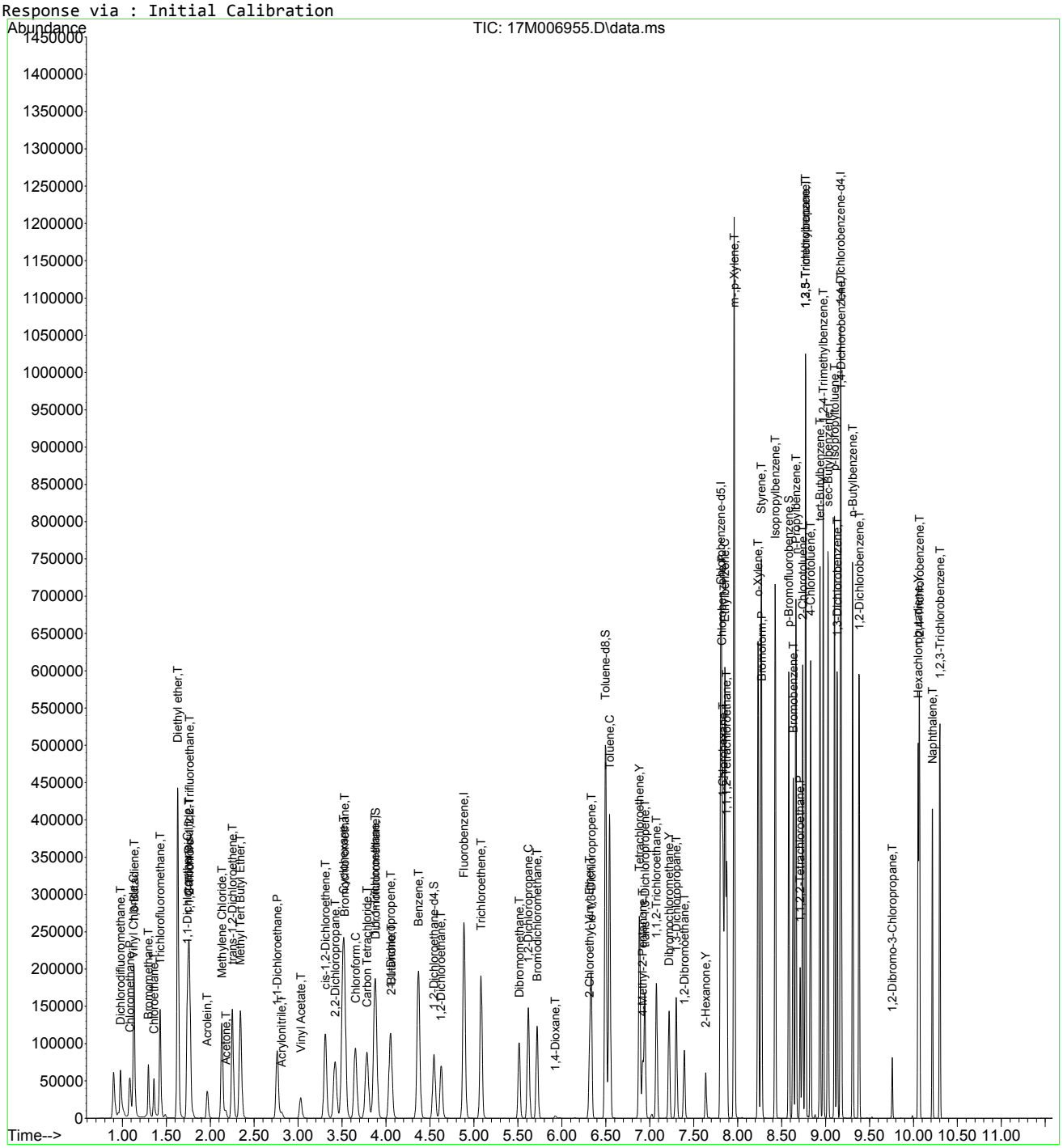
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) 1,2-Dibromoethane	7.394	107	46512	18.5889 ug/L	100
51) 2-Hexanone	7.637	43	25009	19.2691 ug/L	100
52) Chlorobenzene	7.819	112	156657	17.9749 ug/L	100
53) 1-Chlorohexane	7.834	69	14117	20.0148 ug/L	90
54) Ethylbenzene	7.854	106	89187	19.0633 ug/L	100
55) 1,1,1,2-Tetrachloroethane	7.874	131	61403	18.8745 ug/L	100
56) m-,p-Xylene	7.961	106	209739	37.9994 ug/L	100
57) o-Xylene	8.233	106	99502	17.8350 ug/L	100
58) Styrene	8.268	104	173044	19.2078 ug/L	99
59) Bromoform	8.274	173	43775	18.9776 ug/L	99
60) Isopropylbenzene	8.427	105	257823	18.2169 ug/L	100
62) 1,3,5-Trimethylbenzene	8.772	105	242856	19.8696 ug/L	99
64) Bromobenzene	8.633	156	75205	18.8815 ug/L	99
65) n-Propylbenzene	8.662	91	289142	18.1148 ug/L	100
66) 1,1,2,2-Tetrachloroethane	8.711	83	51169	17.1496 ug/L	100
67) 2-Chlorotoluene	8.740	91	177831	18.1408 ug/L	99
68) 1,2,3-Trichloropropane	8.772	110	15040	18.4200 ug/L	97
69) 1,2,4-Trimethylbenzene	8.975	105	240868	19.9102 ug/L	99
70) 4-Chlorotoluene	8.830	91	177306	17.7960 ug/L	100
71) tert-Butylbenzene	8.937	134	42686	18.0001 ug/L	98
72) sec-Butylbenzene	9.027	105	276117	18.5191 ug/L	99
73) p-Isopropyltoluene	9.102	119	231316	18.4412 ug/L	100
74) 1,3-Dichlorobenzene	9.134	146	128973	18.0858 ug/L	99
75) 1,4-Dichlorobenzene	9.177	146	140503	19.4904 ug/L	100
76) n-Butylbenzene	9.307	91	205182	19.9683 ug/L	100
77) 1,2-Dichlorobenzene	9.383	146	125962	18.1342 ug/L	100
78) 1,2-Dibromo-3-Chloropr...	9.759	75	9246	18.5412 ug/L	100
79) Hexachlorobutadiene	10.055	225	50339	16.7866 ug/L	100
80) 1,2,4-Trichlorobenzene	10.069	180	91241	17.2407 ug/L	99
81) Naphthalene	10.217	128	156684	16.6784 ug/L	100
82) 1,2,3-Trichlorobenzene	10.301	180	83571	18.4389 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\071714\
Data File : 17M006955.D
Acq On : 17 Jul 2014 21:55
Operator : ADC
Sample : WG484692-03 20ug/L LCSDUP 8260
Misc : 1,1 STD65511
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 17 22:07:30 2014
Quant Method : D:\MassHunter\GCMS\1\methods\8260-VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 07/09/14 HPMS17
QLast Update : Wed Jul 16 16:17:06 2014
Response via : Initial Calibration



8260-VMS.M Thu Jul 17 22:07:32 2014 Page: 3

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964793.D Vial: 12
Acq On : 18 Jul 2014 22:06 Operator: FJB
Sample : WG484906-03 20ug/L LCS DUP 8260 Inst : HPMS9
Misc : 1,1 STD65450 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 19 10:23:24 2014 Quant Results File: 8260WTR.RES

Quant Method : K:\ORGANICS\V...\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	765502	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.96	117	532536	25.00 ug/L	0.00
77) 1,4-Dichlorobenzene-d4	17.99	152	270197	25.00 ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	10.04	111	180476	22.2306 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 88.92%		
43) 1,2-Dichloroethane-d4	10.68	65	236953	21.8233 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 87.28%		
58) Toluene-d8	13.06	98	667383	25.3660 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.48%		
79) p-Bromofluorobenzene	16.46	95	241838	24.8075 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.24%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.39	85	147465	23.6111 ug/L	99
3) Chloromethane	3.88	50	323136	18.7832 ug/L	99
4) Vinyl Chloride	4.12	62	243724	21.4401 ug/L	100
5) 1,3-Butadiene	4.16	54	161124	17.8150 ug/L	96
6) Bromomethane	5.06	94	132271	18.9577 ug/L	100
7) Chloroethane	5.23	64	145952	20.5098 ug/L	98
8) Trichlorofluoromethane	5.73	101	223950	19.0620 ug/L	99
9) Diethyl ether	6.25	59	1051823	99.5871 ug/L	97
10) Isoprene	6.29	67	242624	21.5636 ug/L	97
11) Acrolein	6.50	56	176936	83.9115 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.51	101	126352	18.7693 ug/L	93
13) Acetone	6.60	43	66359	20.5992 ug/L	100
14) 1,1-Dichloroethene	6.83	61	279820	17.2197 ug/L	98
15) Tert-Butyl Alcohol	6.94	59	200062	170.4052 ug/L	97
16) Dimethyl Sulfide	7.10	62	273780	21.5180 ug/L	97
17) Iodomethane	7.36	142	131185	14.3252 ug/L	100
18) Methyl acetate	7.36	43	176955	16.7950 ug/L	99
19) Methylene Chloride	7.62	84	159722	18.5938 ug/L	97
20) Carbon Disulfide	7.68	76	414143	18.0632 ug/L	99
21) Acrylonitrile	7.79	53	99456	19.2864 ug/L	96
22) Methyl Tert Butyl Ether	7.84	73	483481	21.0491 ug/L	98
23) trans-1,2-Dichloroethene	8.07	61	293061	18.2899 ug/L	99
24) n-Hexane	8.15	57	281330	17.3576 ug/L	99
25) Diisopropyl ether	8.49	45	4295943	99.3928 ug/L	99
26) Vinyl Acetate	8.66	43	254211	16.2583 ug/L	99
27) 1,1-Dichloroethane	8.69	63	360527	18.1542 ug/L	99
28) Ethyl-Tert-Butyl ether	9.06	59	3975522	101.7715 ug/L	100
29) 2-Butanone	9.24	43	101485	19.6452 ug/L	96
30) Propionitrile	9.36	54	177256	96.9981 ug/L	97
31) 2,2-Dichloropropane	9.48	77	205323	16.7689 ug/L	99
32) cis-1,2-Dichloroethene	9.54	96	171320	18.5971 ug/L	96
33) Chloroform	9.75	83	275662	18.3672 ug/L	100
34) 1-Bromopropane	9.88	122	35634	26.2070 ug/L	93
35) Bromochloromethane	9.99	130	98695	17.5359 ug/L	95
36) Tetrahydrofuran	10.01	42	330973	94.7479 ug/L	96
38) 1,1,1-Trichloroethane	10.29	97	238105	18.4717 ug/L	98
39) Cyclohexane	10.32	56	428207	19.8834 ug/L	98
40) 1,1-Dichloropropene	10.48	75	193107	17.8720 ug/L	98
41) Tert-Amyl-Methyl ether	10.58	73	2434931	104.7169 ug/L	97
42) Carbon Tetrachloride	10.63	117	205262	18.1063 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964793.D Vial: 12
Acq On : 18 Jul 2014 22:06 Operator: FJB
Sample : WG484906-03 20ug/L LCS DUP 8260 Inst : HPMS9
Misc : 1,1 STD65450 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 19 10:23:24 2014 Quant Results File: 8260WTR.RES

Quant Method : K:\ORGANICS\V...\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

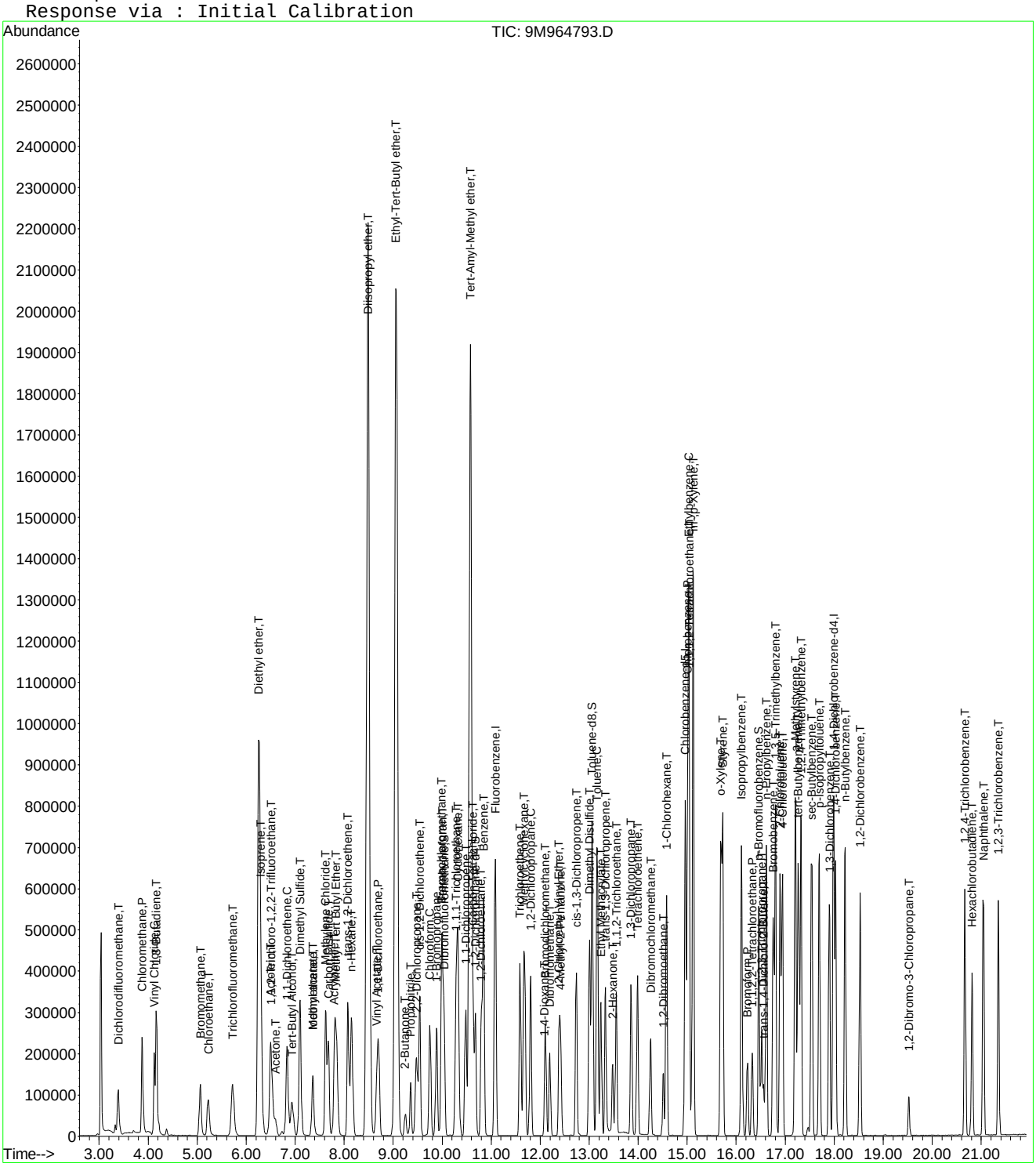
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	1,2-Dichloroethane	10.79	62	271691	18.9679 ug/L		98
46)	Benzene	10.84	78	619010	19.0455 ug/L		98
47)	Trichloroethene	11.59	130	168536	18.1239 ug/L		98
48)	Methylcyclohexane	11.67	83	249437	20.5901 ug/L		96
49)	1,2-Dichloropropane	11.81	63	223522	19.1479 ug/L		98
50)	1,4-Dioxane	12.08	88	11629	136.2972 ug/L		92
51)	Bromodichloromethane	12.11	83	212271	18.4144 ug/L		100
52)	Dibromomethane	12.20	174	97227	18.2060 ug/L		95
53)	2-Chloroethyl Vinyl Ether	12.38	63	130683	20.5707 ug/L		100
54)	4-Methyl-2-Pentanone	12.42	58	94763	19.8354 ug/L		99
55)	cis-1,3-Dichloropropene	12.74	75	265082	19.6009 ug/L		97
56)	Dimethyl Disulfide	13.00	94	320359	22.1376 ug/L		99
59)	Toluene	13.16	91	635612	20.1594 ug/L		99
60)	Ethyl Methacrylate	13.24	69	212651	23.4597 ug/L		97
61)	trans-1,3-Dichloropropene	13.34	75	221257	18.3522 ug/L		98
62)	1,1,2-Trichloroethane	13.55	97	133841	19.7527 ug/L		100
63)	2-Hexanone	13.48	43	146068	20.0566 ug/L		96
64)	1,3-Dichloropropane	13.85	76	236741	19.8800 ug/L		96
65)	Tetrachloroethene	13.99	164	123153	18.7855 ug/L		99
66)	Dibromochloromethane	14.26	129	163402	19.7920 ug/L		98
67)	1,2-Dibromoethane	14.51	107	134601	19.4747 ug/L		99
68)	1-Chlorohexane	14.58	91	203135	21.6661 ug/L		97
69)	Chlorobenzene	15.01	112	391634	18.5668 ug/L		98
70)	1,1,1,2-Tetrachloroethane	15.04	131	155898	19.6929 ug/L		99
71)	Ethylbenzene	15.03	106	226754	19.5075 ug/L		92
72)	m-,p-Xylene	15.12	106	534380	39.0461 ug/L		95
73)	o-Xylene	15.68	106	257805	18.2280 ug/L		98
74)	Styrene	15.72	104	458321	20.5596 ug/L		99
75)	Bromoform	16.23	173	113153	18.6898 ug/L		99
76)	Isopropylbenzene	16.11	105	647728	19.0302 ug/L		98
78)	1,1,2,2-Tetrachloroethane	16.32	83	132487	19.2630 ug/L		99
80)	1,2,3-Trichloropropane	16.52	110	50197	21.1273 ug/L		76
81)	trans-1,4-Dichloro-2-Buten	16.56	53	39463	10.8757 ug/L	#	8
82)	n-Propylbenzene	16.61	91	756509	20.2917 ug/L		99
83)	Bromobenzene	16.76	156	178689	20.3568 ug/L		92
84)	1,3,5-Trimethylbenzene	16.80	105	601767	22.6550 ug/L		99
85)	2-Chlorotoluene	16.89	91	473383	18.9138 ug/L		92
86)	4-Chlorotoluene	16.94	91	393240	18.1331 ug/L		89
87)	a-Methylstyrene	17.20	118	340865	24.5563 ug/L		98
88)	tert-Butylbenzene	17.26	134	118582	20.1198 ug/L		94
89)	1,2,4-Trimethylbenzene	17.33	105	612092	22.2330 ug/L		97
90)	sec-Butylbenzene	17.54	105	687368	20.5950 ug/L		99
91)	p-Isopropyltoluene	17.70	119	560813	20.5345 ug/L		96
92)	1,3-Dichlorobenzene	17.91	146	305751	18.8960 ug/L		97
93)	1,4-Dichlorobenzene	18.03	146	338129	20.2776 ug/L		98
94)	n-Butylbenzene	18.23	91	546282	21.1394 ug/L		98
95)	1,2-Dichlorobenzene	18.53	146	316813	19.8968 ug/L		99
96)	1,2-Dibromo-3-Chloropropan	19.53	157	35020	20.1026 ug/L		97
97)	1,2,4-Trichlorobenzene	20.67	180	234460	19.5942 ug/L		99
98)	Hexachlorobutadiene	20.81	225	116166	19.2599 ug/L		99
99)	Naphthalene	21.05	128	573306	22.0156 ug/L		100
100)	1,2,3-Trichlorobenzene	21.35	180	230679	19.7324 ug/L		100

(#) = qualifier out of range (m) = manual integration
9M964793.D 8260WTR.M Sat Jul 19 10:23:27 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS9\DATA\071814\9M964793.D Vial: 12
Acq On : 18 Jul 2014 22:06 Operator: FJB
Sample : WG484906-03 20ug/L LCS DUP 8260 Inst : HPMS9
Misc : 1,1 STD65450 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 19 10:23 2014 Quant Results File: 8260WTR.RES

Method : K:\ORGANICS\VOLATILE\HPMS9\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 SOP: OVL MSV01 WATER 06/26/14 HPMS9
Last Update : Fri Jun 27 11:04:25 2014
Response via : Initial Calibration



9M964793.D 8260WTR.M Sat Jul 19 10:23:27 2014 Page 3

3.0 Attachments

Microbac Laboratories Inc.
Ohio Valley Division Analyst List
July 25, 2014

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001 - BIO-CHEM TESTING WVDEP 220
002 - REIC Consultants, Inc. WVDEP 060
003 - Sturm Environmental
004 - MICROBAC PITTSBURGH
005 - ES LABORATORIES
006 - ALCOSAN LABORATORIES
007 - ALS LABORATORIES
008 - BENCHMARK LABORATORIES
010 - MICROBAC CHICAGOLAND
ADC - ANTHONY D. CANTER
ADG - APRIL D. GREENE
ALS - ADRIANE L. STEED
AWE - ANDREW W. ESSIG
AZH - AFTER HOURS
BAF - BRICE A. FENTON
BJO - BRIAN J. OGDEN
BKT - BRENDAN TORRENCE
BLG - BRENDA L. GREENWALT
BRG - BRENDA R. GREGORY
CAA - CASSIE A. AUGENSTEIN
CAF - CHERYL A. FLOWERS
CEB - CHAD E. BARNES
CJR - COURTNEY J. REXROAD
CLC - CHRYS L. CRAWFORD
CLS - CARA L. STRICKLER
CLW - CHARISSA L. WINTERS
CPD - CHAD P. DAVIS
CSH - CHRIS S. HILL
DAK - DEAN A. K
DCM - DAVID C. MERCKLE
DEV - DAVID E. VANDENBERG
DIH - DEANNA I. HESSON
DLB - DAVID L. BUMGARNER
DLP - DOROTHY L. PAYNE
DSM - DAVID S. MOSSOR
ECL - ERIC C. LAWSON
ENY - EMILY N. YOAK
EPT - ETHAN P. TIDD
ERP - ERIN R. PORTER
FJB - FRANCES J. BOLDEN
JBK - JEREMY B. KINNEY
JDH - JUSTIN D. HESSON
JDS - JARED D. SMITH
JJS - JOHN J. ST MARIE
JLL - JOHN L. LENT
JMW - JEANA M. WHITE
JTP - JOSHUA T. PEMBERTON
JWR - JOHN W. RICHARDS
JWS - JACK W. SHEAVES
JYH - JI Y. HU
KAJ - KELLIE A. JOHNSON
KDW - KATHRYN D. WELCH
KEB - KATIE E. BARNES
KHR - KIM H. RHODES
KRA - KATHY R. ALBERTSON
KRB - KAELY R. BECKER
KRP - KATHY R. PARSONS
LEC - LAURA E. CARPENTER
LKN - LINDA K. NEDEFF
LLS - LARRY L. STEPHENS
LSB - LESLIE S. BUCINA
MBK - MORGAN B. KNOWLTON
MDA - MIKE D. ALBERTSON
MDC - MIKE D. COCHRAN
MES - MARY E. SCHILLING
MLB - MEGAN L. BACHE
MMB - MAREN M. BEERY
MRT - MICHELLE R. TAYLOR
MSW - MATT S. WILSON
PDM - PIERCE D. MORRIS
PIT - MICROBAC WARRENDALE
PSW - PEGGY S. WEBB
QX - QIN XU
RAH - ROY A. HALSTEAD
REK - BOB E. KYER
RLB - BOB BUCHANAN
RM - RAYMOND MALEKE
RNP - RICK N. PETTY
RS - ROSEMARY SCOTT
SAV - SARAH A. VANDENBERG
SDC - SHALYN D. CONLEY
SEP - SUZANNE J. PAUGH
SLM - STEPHANIE L. MOSSBURG
SLP - SHERI L. PFALZGRAF
TB - TODD BOYLE
TLC - TYLER L. CORDELL
TMB - TIFFANY M. BAILEY
TMM - TAMMY M. MORRIS
TPA - TYLER P. AMRINE
VC - VICKI COLLIER
WJB - WILL J. BEASLEY
WRR - WESLEY R. RICHARDS
WTD - WADE T. DELONG
XXX - UNAVAILABLE OR SUBCONTRACT

Microbac Laboratories Inc.
List of Valid Qualifiers
July 25, 2014

Qualkey: STD_ND=U

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	Analyte present in method blank
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
J,H1	The analyte was positively identified, but the quantitation was below the RL. Sample analysis performed past holding time
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Tentatively identified compound(TIC)
NA	Not applicable
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Not detected at or above adjusted sample detection limit
U,H1	Not detected; sample analysis performed past holding time.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

COC No. A 42169

158 Starlite Drive
Marietta, OH 45750

Microbac

CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Fax: 740-373-4835

Company Name: ARCADIS - U.S., Inc.

Project Contact: Jacelyne Powell

Contact Phone #: 713-953-4807

Turn Around Requirements: Standard

Location: Picatinny Arsenal

Project ID: ~~Standard~~ GP06PICA.LM14.3M014/PICA077

Sampler (print): C. Goldsmith, N. Comrie

Signature: D. Ben

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

ADDITIONAL REQUIREMENTS

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	VOC - method 8260	TOTAL # (LAB USE)
E-38-SW001(070914)		X	7/9/14	1500	WS	3		X	
E-38-SW004(070914)		X	7/9/14	1450	WG	3		X	
D-SW005(070914)		X	7/9/14	1440	WG	3		X	
E-80-MW003(070914)		X	7/9/14	1430	WG	3		X	
E-MW002(070914)		X	7/9/14	1425	WG	3		X	
E-11WG-MW001(070914)		X	7/9/14	1415	WG	3		X	
E-3WG-MW002(070914)		X	7/9/14	1410	WG	3		X	
E-70-MW004(070914)		X	7/9/14	1400	WG	3		X	
E-MW012L(070914)		X	7/9/14	1355	WG	3		X	
E-MW012H(070914)		X	7/9/14	1350	WG	3		X	
E-MW001(070914)		X	7/9/14	1340	WG	3		X	
E-95-MW003(070914)		X	7/9/14	1335	WG	3		X	
FB001(070914)		X	7/9/14	1200	WG	3		X	
TB1(9289)		X	7/9/14	1600	WQ	2		X	
E-82-MW001(071014)		X	7/10/14	1500	WG	3		X	
TB1(9669)		X	7/10/14	1600	WQ	2		X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
D. Ben	7/10/14	1600			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)		

Remarks:

Microbac OVD
Received: 07/11/2014 10:37
By: BRENDA GREENWALT 221000056871
Brenda Greenwalt

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L14070607
Account: 2273
Project: 2273.003
Samples: 16
Due Date: 22-JUL-2014

Samplenum	Container ID	Products
L14070607-01	401047	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:35	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:35	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:35	CLS	MLB	

Samplenum	Container ID	Products
L14070607-02	401048	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:35	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:35	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:35	CLS	MLB	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L14070607
Account: 2273
Project: 2273.003
Samples: 16
Due Date: 22-JUL-2014

Samplenum	Container ID	Products
L14070607-03	401049	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:35	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Samplenum	Container ID	Products
L14070607-04	401050	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L14070607
Account: 2273
Project: 2273.003
Samples: 16
Due Date: 22-JUL-2014

Samplenum	Container ID	Products
L14070607-05	401051	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Samplenum	Container ID	Products
L14070607-06	401052	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L14070607
Account: 2273
Project: 2273.003
Samples: 16
Due Date: 22-JUL-2014

Samplenum	Container ID	Products
L14070607-07	401053	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Samplenum	Container ID	Products
L14070607-08	401054	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L14070607
Account: 2273
Project: 2273.003
Samples: 16
Due Date: 22-JUL-2014

Samplenum	Container ID	Products
L14070607-09	401055	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Samplenum	Container ID	Products
L14070607-10	401056	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L14070607
Account: 2273
Project: 2273.003
Samples: 16
Due Date: 22-JUL-2014

Samplenum	Container ID	Products
L14070607-11	401057	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:36	CLS	MLB	

Samplenum	Container ID	Products
L14070607-12	401058	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:06	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:07	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:07	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L14070607
Account: 2273
Project: 2273.003
Samples: 16
Due Date: 22-JUL-2014

Samplenum	Container ID	Products
L14070607-13	401059	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	ORG4	11-JUL-2014 12:42	BRG		<2
2	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:07	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:07	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

Samplenum	Container ID	Products
L14070607-14	401060	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:07	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:07	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L14070607
Account: 2273
Project: 2273.003
Samples: 16
Due Date: 22-JUL-2014

Samplenum	Container ID	Products
L14070607-15	401061	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:07	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:07	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:07	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

Samplenum	Container ID	Products
L14070607-16	401062	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:07	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-JUL-2014 12:42	BRG		<2
2	ANALYZ	V1	ORG4	11-JUL-2014 14:07	MLB	CLS	
3	STORE	ORG4	A2	25-JUL-2014 08:37	CLS	MLB	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

NELAP Addendum - May 22, 2014

Non-NELAP LIMS Product and Description

The following is a list of those tests that are not included in the Microbac – OVL NELAP Scope of Accreditation:

Heat of Combustion (BTU)
Total Halide by Bomb Combustion (TX)
Particle Sizing - 200 Mesh (PS200)
Specific Gravity/Density (SPGRAV)
Total Residual Chlorine (CL-TRL)
Total Volatile Solids (all forms) (TVS)
Total Coliform Bacteria (all methods)
Fecal Coliform Bacteria (all methods)
Sulfite (SO3)
Thiodiglycol (TDG-LCMS)
Acetate (HPLC-UV)
Formate (HPLC-UV)
Acetaldehyde (HPLC-UV)
Propionaldehyde (HPLC-UV)
Fluoroborate (ISE)

SOLID AND HAZARDOUS CHEMICALS
Nitrogen, Ammonia by Method 350.1
Chromium, Hexavalent, Leachable by SM3500 Cr-B 2009
Phenolics, Total by Method 420.1

NELAP Accreditation by Laboratory SOP

NONPOTABLE WATER

OVL HPLC02/HPLC-UV

Nitroglycerin
Acetic acid
Butyric acid
Lactic acid
Propionic acid
Pyruvic acid

OVL MSS01/GC-MS

1,4-Phenylenediamine
1-Methylnaphthalene
1,4-Dioxane
Atrazine
Benzaldehyde
Biphenyl
Caprolactam

Hexamethylphosphoramide (HMPA)
Pentachlorobenzene
Pentachloroethane

NELAP Accreditation by Laboratory SOP

NONPOTABLE WATER

OVL MSV0I/GC-MS

1, 1, 2-Trichloro-1,2,2-trifluoroethane
1,3-Butadiene
Cyclohexane
Cyclohexanone
Dimethyl disulfide
Dimethylsulfide
Ethyl-t-butylether (ETBE)
Isoprene
Methylacetate
Methylcyclohexane
T-amylmethylether (TAME)
Tetrahydrofuran (THF)

OVL RSKOI/GC-FID

Isobutane
n-Butane
Propane
Propylene
Propyne

OVL HPLC07/HPLC-MS-MS

Hexamethylphosphoramide (XMPA-LCMS)

SOLID AND HAZARDOUS CHEMICALS

OVL MSS0I/GC-MS

1-Methylnaphthalene
Benzaldehyde
Biphenyl
Caprolactam
Pentachloroethane

NELAP Accreditation by Laboratory SOP

SOLID AND HAZARDOUS CHEMICALS

OVL MSV0I/GC-MS

1.3-Butadiene
Cyclohexane
Cyclohexanone
Dimethyl disulfide
Dimethylsulfide
Ethyl-t-butylether (ETBE)
Isoprene
Methylacetate
Methylcyclohexane
n-Hexane
T-amylmethylether (TAME)

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
3rd Quarter PICATINNY

Analytical data was evaluated in accordance with applicable USEPA SW-846 method requirements, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" (October 1999), "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (July 2002), site-specific requirements defined in *Picatinny Arsenal Quality Assurance Project Plan* (ARCADIS, 2005), and any additional evaluation criteria set forth in the area specific Work Plan.

Field documentation was not reviewed. The electronic data review was performed utilizing the EQuIS Data Qualification Module (DQM). DQM checks for the following parameters:

- Holding times and preservation;
- Blank contamination;
  - Method blanks,
  - Trip blanks,
  - Equipment blanks;

Analyses were performed by Microbac Laboratories, Inc. Data qualifiers were applied electronically to the database with any additional qualifiers added manually. A summary of the data as amended by data qualifiers is included with the original hard copy reports.

The attached table summarizes the data that were qualified due to QC deficiencies. The table indicates compounds/analytes qualified based on electronic and manual validation. Refer to the associated method section of the validation checklist for a detailed explanation of qualification. All other data in this SDG are considered usable as reported.

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
3rd Quarter PICATINNY

The following list of data qualifiers and definitions were applied in accordance with qualification criteria defined in the above guidance documents:

UB Compound/analyte detected in blank or associated blank, qualified as a non-detect at listed value.

J The analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reporting limit; however, the reported quantitation limit is approximate and may, or may not represent the actual limit of quantitation necessary to accurately and precisely measure analyte in the sample.

R The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria; and the presence or absence of the analyte cannot be verified.

DQM RUN BY:	Rachelle Borne	09/04/14
REVIEW PERFORMED BY:	Rachelle Borne	09/04/14
SIGNATURE:	Rachelle Borne	09/10/14
PEER REVIEW:	Jennifer Powell	09/10/14

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
3rd Quarter PICATINNY

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
3rd Quarter PICATINNY

The following samples were included in this SDG:

SDG	Sample ID	Sample Date	Parent Sample
L14061445	B-20/24IW003(062314)	6/23/2014	
L14061445	B-20/24IW010(062314)	6/23/2014	
L14061445	B-20/24MW006(062314)	6/23/2014	
L14061445	B-20/24MW006B(062314)	6/23/2014	
L14061445	B-20/24MW008(062314)	6/23/2014	
L14061445	B-20/24MW015(062314)	6/23/2014	
L14061445	B-20/24MW016(062314)	6/23/2014	
L14061445	B-20/24MW017(062314)	6/23/2014	
L14061445	B-20/24MW018(062314)	6/23/2014	
L14061445	B-DUP001(062314)	6/23/2014	B-20/24MW017(062314)
L14061445	B-20/24IW002B(062314)	6/23/2014	
L14061445	B-20/24IW003B(062314)	6/23/2014	
L14061445	B-20/24IW008(062314)	6/23/2014	
L14061445	B-20/24IW009(062314)	6/23/2014	
L14061445	B-20/24IW001B(062314)	6/23/2014	
L14061445	FB001(062314)	6/23/2014	
L14061445	TB1(6486)	6/23/2014	
L14061574	1515R002(0-0.5)	6/24/2014	
L14061574	C-34SD004(0-0.5)	6/24/2014	
L14061574	C-34SW008(062514)	6/25/2014	
L14061574	D-SDBS023(0-0.5)	6/25/2014	
L14061574	G-31SD004(0-0.5)	6/24/2014	
L14061574	G-52SD005(0-0.5)	6/24/2014	
L14061574	G-PB002(0-0.5)	6/24/2014	
L14061574	G-SD101-1(0-0.5)	6/25/2014	
L14061574	TB1(9431)	6/25/2014	
L14061574	FB001(062514)	6/25/2014	
L14061687	L-171MW10B(062614)	6/26/2014	
L14061687	L-171MW15(062614)	6/26/2014	
L14061687	DUPOO1(062614)	6/26/2014	L-171MW12(062614)
L14061687	DUPOO2(062514)	6/25/2014	L-5MW8(062514)
L14061687	DUPOO3(062514)	6/25/2014	L-6MW4(062514)
L14061687	L171MW1(062614)	6/26/2014	
L14061687	L171MW10B(062614)	6/26/2014	
L14061687	L-171MW11(062614)	6/26/2014	
L14061687	L-171MW11B(062614)	6/26/2014	

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
3rd Quarter PICATINNY

SDG	Sample ID	Sample Date	Parent Sample
L14061687	L-171MW12(062614)	6/26/2014	
L14061687	L-171MW13(062514)	6/25/2014	
L14061687	L-171MW13B(062514)	6/25/2014	
L14061687	FB001(062514)	6/25/2014	
L14061687	L-171MW2(062614)	6/26/2014	
L14061687	L-171MW10(062614)	6/26/2014	
L14061687	L-171MW16(062514)	6/25/2014	
L14061687	L-171MW16B(062514)	6/25/2014	
L14061687	L-171MW17(062514)	6/25/2014	
L14061687	L-171MW17B(062514)	6/25/2014	
L14061687	L-171MW4(062614)	6/26/2014	
L14061687	L-171MW8(062614)	6/26/2014	
L14061687	L-171MW8B(062614)	6/26/2014	
L14061687	L-171MW9(062614)	6/26/2014	
L14061687	L-5MW4(062514)	6/25/2014	
L14061687	L-5MW4D(062514)	6/25/2014	
L14061687	L-5MW7(062514)	6/25/2014	
L14061687	L-5MW8(062514)	6/25/2014	
L14061687	L-6MW4(062514)	6/25/2014	
L14061687	L-6MW-4D(062514)	6/25/2014	
L14061687	L-DM5-2(062514)	6/25/2014	
L14061687	L-DM6-1(062514)	6/25/2014	
L14061687	L-DM6-2(062514)	6/25/2014	
L14061687	L-DM6-3(062514)	6/25/2014	
L14061687	FB002(062614)	6/26/2014	
L14061687	TB1(9596)	6/26/2014	
L14061689	FB001(062614)	6/26/2014	
L14061689	L-6MW4D(062714)	6/27/2014	
L14061689	L-DM17-3(062614)	6/26/2014	
L14061689	L-DM6-1(062714)	6/27/2014	
L14061689	TB1(8540)	6/27/2014	
L14061689	L-171MW13(062714)	6/27/2014	
L14061689	L-171MW16B(062714)	6/27/2014	
L14061689	L-171MW17B(062714)	6/27/2014	
L14061689	L-171MW17(062714)	6/27/2014	
L14061689	L-171MW16(062714)	6/27/2014	
L14061689	L-171MW13B(062714)	6/27/2014	
L14061689	DUP003(062714)	6/27/2014	L-6MW4(062714)

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
3rd Quarter PICATINNY

SDG	Sample ID	Sample Date	Parent Sample
L14061689	FB001(062714)	6/27/2014	
L14061689	G-101MW5(062714)	6/27/2014	
L14061689	G-31MW001(062714)	6/27/2014	
L14061689	G-31MW002(062714)	6/27/2014	
L14061689	G-MW1-G(062714)	6/27/2014	
L14061689	G-MW3-G(062714)	6/27/2014	
L14061689	L-1711W010D(062714)	6/27/2014	
L14061689	L-1711W010S(062714)	6/27/2014	
L14061689	L-171MW14(062614)	6/26/2014	
L14061689	L-171MW14B(062614)	6/26/2014	
L14061689	L-171MW5(062614)	6/26/2014	
L14061689	L-171MW5B(062614)	6/26/2014	
L14061689	L-171MW6(062614)	6/26/2014	
L14061689	L-171MW6B(062614)	6/26/2014	
L14061689	L-171MW6C(062614)	6/26/2014	
L14061689	L-171MW7B(062614)	6/26/2014	
L14061689	L-6MW4(062714)	6/27/2014	
L14070131	J-2MW010(070114)	7/1/2014	
L14070131	J-2MW014(070114)	7/1/2014	
L14070131	J-2MW017(070114)	7/1/2014	
L14070131	J-2MW025(070114)	7/1/2014	
L14070131	J-2MW026(070114)	7/1/2014	
L14070131	J-2DUP001(070114)	7/1/2014	J-2MW026(070114)
L14070131	J-2MW027(070114)	7/1/2014	
L14070131	J-MW47-102(070114)	7/1/2014	
L14070131	J-MW47-101(070114)	7/1/2014	
L14070131	J-2MW004D(070114)	7/1/2014	
L14070131	J-2MW005(070114)	7/1/2014	
L14070131	TB1(070114)	7/1/2014	
L14070189	L125MW3(063014)	6/30/2014	
L14070189	L-1711W002(063014)	6/30/2014	
L14070189	L1711W005(063014)	6/30/2014	
L14070189	L171MW15(063014)	6/30/2014	
L14070189	L-5MW4(063014)	6/30/2014	
L14070189	L-5MW4D(063014)	6/30/2014	
L14070189	L-5MW7(063014)	6/30/2014	
L14070189	L-5MW8(063014)	6/30/2014	
L14070189	L-B1090MW2(063014)	6/30/2014	

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
3rd Quarter PICATINNY

SDG	Sample ID	Sample Date	Parent Sample
L14070189	L-DM5-2(063014)	6/30/2014	
L14070189	L-171MW10(063014)	6/30/2014	
L14070189	L-171MW14B(063014)	6/30/2014	
L14070189	L-171MW6(063014)	6/30/2014	
L14070189	L-171MW10B(063014)	6/30/2014	
L14070189	L-171MW14(063014)	6/30/2014	
L14070189	L-171MW2(063014)	6/30/2014	
L14070189	L-171MW8B(063014)	6/30/2014	
L14070189	L-171MW8(063014)	6/30/2014	
L14070189	L-171MW6B(063014)	6/30/2014	
L14070189	L-171MW6C(063014)	6/30/2014	
L14070189	FB001(063014)	6/30/2014	
L14070189	L125MW1A(063014)	6/30/2014	
L14070189	L-DM6-2(063014)	6/30/2014	
L14070189	L-DM6-3(063014)	6/30/2014	
L14070189	TB1(9234)	6/30/2014	
L14070273	FB001(070114)	7/1/2014	
L14070273	DUP004(070214)	7/2/2014	L-161MW2(070214)
L14070273	F-104MW3(070114)	7/1/2014	
L14070273	F-104MW4(070114)	7/1/2014	
L14070273	F-104MW4(070214)	7/2/2014	
L14070273	F-104MW6A(070214)	7/2/2014	
L14070273	F-138MW1(070214)	7/2/2014	
L14070273	F-138MW4(070114)	7/1/2014	
L14070273	F-138MW4(070214)	7/2/2014	
L14070273	FB001(070214)	7/2/2014	
L14070273	F-MW138-1(070114)	7/1/2014	
L14070273	F-MWF2A(070114)	7/1/2014	
L14070273	F-MWF2B(070114)	7/1/2014	
L14070273	G-GM004(070114)	7/1/2014	
L14070273	G-GMW4(070214)	7/2/2014	
L14070273	G-GMW5(070114)	7/1/2014	
L14070273	G-MW52-2(070114)	7/1/2014	
L14070273	G-MWG-2B(070114)	7/1/2014	
L14070273	H-62MW2(070114)	7/1/2014	
L14070273	H-64MW2(070114)	7/1/2014	
L14070273	L-114MW1A(070114)	7/1/2014	
L14070273	L-114MW1A(070214)	7/2/2014	

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
3rd Quarter PICATINNY

SDG	Sample ID	Sample Date	Parent Sample
L14070273	L-125MW1A(070214)	7/2/2014	
L14070273	L-125MW1B(070214)	7/2/2014	
L14070273	L-125MW1B)070114)	7/1/2014	
L14070273	L-125MW3(070214)	7/2/2014	
L14070273	L-138MW5B(070214)	7/2/2014	
L14070273	L-161MW1B(070214)	7/2/2014	
L14070273	L-161MW2(070214)	7/2/2014	
L14070273	L-161MW4B(070214)	7/2/2014	
L14070273	L-161MW5(070114)	7/1/2014	
L14070273	L-161MW5(070214)	7/2/2014	
L14070273	L-161MW5B(070214)	7/2/2014	
L14070273	L-161MW7(070114)	7/1/2014	
L14070273	L-17MW2(070114)	7/1/2014	
L14070273	L-17MW2(070214)	7/2/2014	
L14070273	L-17MW4(070214)	7/2/2014	
L14070273	L-17MW5(070214)	7/2/2014	
L14070273	L-17MW5B(070214)	7/2/2014	
L14070273	L-35(MW5C(070114)	7/1/2014	
L14070273	L-35MW5B(070114)	7/1/2014	
L14070273	L-35MW5B(070214)	7/2/2014	
L14070273	L-35MW5C(070214)	7/2/2014	
L14070273	L-B1038MW2(070214)	7/2/2014	
L14070273	L-B1038MW3(070214)	7/2/2014	
L14070273	L-B1090MW2(070114)	7/1/2014	
L14070273	L-DM17-3(070214)	7/2/2014	
L14070273	TB(01836)	7/2/2014	H-64MW2(070114)
L14070436	C-34SD003(0-0.5)	7/7/2014	
L14070436	C-34SD007(0-0.5)	7/7/2014	
L14070436	C-34SW008(070714)	7/7/2014	
L14070436	G-GPBSBD0026(0-0.5)	7/7/2014	
L14070436	H-BSSD029(0-0.5)	7/7/2014	
L14070452	FB001(070714)	7/7/2014	
L14070452	TB1(9596)	7/7/2014	L-171MW17(062514)
L14070452	G-104SW002(070714)	7/7/2014	
L14070452	L-104SW001(070714)	7/7/2014	
L14070452	L-161SW004(070714)	7/7/2014	
L14070452	L-161SW010A(070714)	7/7/2014	
L14070452	L-171SW003(070714)	7/7/2014	

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
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SDG	Sample ID	Sample Date	Parent Sample
L14070459	1-79SD001(070714)	7/7/2014	
L14070459	1-79SD002(070714)	7/7/2014	
L14070459	1-79SW001(070714)	7/7/2014	
L14070459	1-79SW002(070714)	7/7/2014	
L14070524	FB001(070814)	7/8/2014	
L14070524	I-40MW001(070814)	7/8/2014	
L14070524	I-40MW002(070814)	7/8/2014	
L14070524	I-40MW003(070814)	7/8/2014	
L14070524	I-40MW005(070814)	7/8/2014	
L14070524	I-40MW006(070814)	7/8/2014	
L14070607	TB1(9669)	7/10/2014	
L14070607	D-SW005(070914)	7/9/2014	
L14070607	E-11WG-MW001(070914)	7/9/2014	
L14070607	E-38-SW001(070914)	7/9/2014	
L14070607	E-38-SW004(070914)	7/9/2014	
L14070607	E-3WG-MW002(070914)	7/9/2014	
L14070607	E-70-MW004(070914)	7/9/2014	
L14070607	E-80-MW003(070914)	7/9/2014	
L14070607	E-82-MW001(071014)	7/10/2014	
L14070607	E-95-MW003(070914)	7/9/2014	
L14070607	E-MW001(070914)	7/9/2014	
L14070607	E-MW002(070914)	7/9/2014	
L14070607	E-MW012H(070914)	7/9/2014	
L14070607	E-MW012L(070914)	7/9/2014	
L14070607	FB001(070914)	7/9/2014	
L14070607	TB1(9289)	7/9/2014	
L14070647	G-101MW6(071019)	7/10/2014	
L14070678	C-23-MW001B(070814)_07/08/2014	7/8/2014	
L14070678	FB001(070814)_07/08/2014	7/8/2014	
L14070678	C-23-MW001B(070814)	7/8/2014	
L14070678	C-23-MWDM003(070814)	7/8/2014	
L14070762	D-111-1(070914)	7/9/2014	
L14070762	D-112-6(070914)	7/9/2014	
L14070762	D-112-7(070914)	7/9/2014	
L14070762	D-13-1(070914)	7/9/2014	
L14070762	D-41-1(070914)	7/9/2014	
L14070762	D-41-14(070914)	7/9/2014	
L14070762	D-41-16(070914)	7/9/2014	

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
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SDG	Sample ID	Sample Date	Parent Sample
L14070762	D-41-17(070914)	7/9/2014	
L14070762	D-41-8(070914)	7/9/2014	
L14070762	D-41-9(070914)	7/9/2014	
L14070762	D-92-3(070914)	7/9/2014	
L14070762	D-CAF-2(070914)	7/9/2014	
L14070762	D-CAF-6(070914)	7/9/2014	
L14070762	D-H-9(070914)	7/9/2014	
L14070762	D-MW21-1(070914)	7/9/2014	
L14070762	D-MWD-1(070914)	7/9/2014	
L14070762	D-PRB001(070914)	7/9/2014	
L14070762	D-PRB001(071014)	7/10/2014	
L14070762	D-PRB002(070914)	7/9/2014	
L14070762	D-PRB002(071014)	7/10/2014	
L14070762	D-PRB003(070914)	7/9/2014	
L14070762	D-PRB003(071014)	7/10/2014	
L14070762	D-PRB004(070914)	7/9/2014	
L14070762	D-PRB004(071014)	7/10/2014	
L14070762	D-PRB005(070914)	7/9/2014	
L14070762	D-PRB005(071014)	7/10/2014	
L14070762	D-PRB006(070914)	7/9/2014	
L14070762	D-PRB006(071014)	7/10/2014	
L14070762	D-PRB007(070914)	7/9/2014	
L14070762	D-PRB007(071014)	7/10/2014	
L14070762	D-PRB008(070914)	7/9/2014	
L14070762	D-PRB008(071014)	7/10/2014	
L14070762	D-PRB009(070914)	7/9/2014	
L14070762	D-PRB009(071014)	7/10/2014	
L14070762	D-PRB010(070914)	7/9/2014	
L14070762	D-PRB010(071014)	7/10/2014	
L14070762	D-PW-131(070914)	7/9/2014	
L14070762	D-PZ001(071014)	7/10/2014	
L14070762	D-PZ002(071014)	7/10/2014	
L14070762	D-PZ003(071014)	7/10/2014	
L14070762	DUP001(071014)	7/10/2014	D-PZ003(071014)
L14070762	FB001(071014)	7/10/2014	

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
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VOLATILES

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times	DQM		DQM	
2. Blanks				
A. Method blanks		DQM		DQM
B. Equipment/Field blanks		DQM		DQM
C. Trip Blanks	DQM		DQM	

DQM – Data Qualification Module

Comments:
This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed utilizing Method 8260.

2A. (L14061687) Naphthalene. 1,2,4-trimethylbenzene, and chlorobenzene were detected in the method blank for batch 482871. The associated field samples were qualified as non-detect for these compounds if the sample concentrations were less than five times the blank values.

(L14070607) Methylene chloride was detected in the method blank. The associated field samples were qualified as non-detect for this compound if the sample concentration was less than ten times the blank value.

2B. (L14061445) Acetone and toluene were detected in the field blank. The associated field samples were qualified as non-detect for these compounds if the sample concentrations were less than five times the blank value for toluene and less than ten times the blank value for acetone.

(L14061574) Acetone and toluene were detected in the field blank. The associated field sample was non-detect for these compounds; therefore, qualification of the data was not warranted.

(L14061687) Acetone, benzene, naphthalene, toluene, trichloroethene, and 1,2,4-trimethylbenzene were detected in the field blanks. The associated field samples were qualified as non-detect for these compounds if the sample concentrations were less than five times the blank value for benzene, naphthalene, toluene, trichloroethene and 1,2,4-trimethylbenzene and less than ten times the blank value for acetone.

(L140601689) Acetone, benzene and toluene were detected in the field blank. The associated field samples were qualified as non-detect for these compounds if the sample concentrations were less than five times the blank value for benzene and toluene and less than ten times the blank value for acetone.

(L14070131) Acetone, naphthalene, toluene, 1.,2,4-trichlorobenzene, 1,2,4-trimethylbenzene, o-xylene, and m,p-xylene were detected in the field blanks. The associated field samples were qualified as non-detect for these compounds if the sample concentrations were less than five times the blank value for naphthalene, toluene, 1.,2,4-trichlorobenzene, 1,2,4-trimethylbenzene, o-xylene and m,p-xylene and less than ten times the blank value for acetone.

(L14070189) Acetone, benzene, naphthalene, toluene, 1,2,4-trimethylbenzene, o-xylene, and m,p-xylene were detected in the field blanks. The associated field samples were qualified as non-detect for these compounds if the

sample concentrations were less than five times the blank value for benzene, naphthalene, toluene, 1,2,4-trimethylbenzene, o-xylene and m,p-xylene and less than ten times the blank value for acetone.

(L14070273) Acetone, naphthalene, toluene, and 1,2,4-trichlorobenzene were detected in the field blank. The associated field samples were qualified as non-detect for these compounds if the sample concentrations were less than five times the blank value for naphthalene, toluene and 1,2,4-trichlorobenzene and less than ten times the blank value for acetone.

(L14070452) Acetone, benzene, naphthalene, toluene, 1,2,4-trichlorobenzene, 1,2,4-trimethylbenzene, o-xylene, and m,p-xylene were detected in the field blank. The associated field samples were non-detect for these compounds; therefore, qualification of the data was not warranted.

(L14070607) Acetone, benzene, naphthalene, toluene, 1,2,4-trimethylbenzene, o-xylene, and m,p-xylene were detected in the field blank. The associated field samples were qualified as non-detect for these compounds if the sample concentrations were less than five times the blank value for , benzene, naphthalene, toluene, 1,2,4-trimethylbenzene, o-xylene and m,p-xylene and less than ten times the blank value for acetone.

(L14070762) Acetone, benzene, naphthalene, toluene, 1,2,4-trimethylbenzene, and m,p-xylene were detected in the field blank. The associated field samples were qualified as non-detect for these compounds if the sample concentrations were less than five times the blank value for , benzene, naphthalene, toluene, 1,2,4-trimethylbenzene and m,p-xylene and less than ten times the blank value for acetone.

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
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SEMIVOLATILES

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times	DQM		DQM	
2. Blanks				
A. Method blanks	DQM		DQM	
B. Equipment/Field blanks		DQM	DQM	

DQM – Data Qualification Module

Comments:
This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed utilizing Method 8270.

2B. (L14070436) Naphthalene, 1-methlynaphthalene, and 2-methylnaphthalene were detected in the field blank. The associated field samples were greater than five times the blank value; therefore, qualification of the data was not warranted.

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
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PESTICIDES

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times	DQM		DQM	
2. Blanks				
A. Method blanks	DQM		DQM	
B. Equipment/Field blanks	DQM		DQM	

DQM – Data Qualification Module

Comments:
This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed utilizing Method 8081.

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
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PCBs

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times	DQM		DQM	
2. Blanks				
A. Method blanks	DQM		DQM	
B. Equipment/Field blanks	DQM		DQM	

DQM – Data Qualification Module

Comments:
This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed utilizing Method 8082.

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
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EXPLOSIVES

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times	DQM		DQM	
2. Blanks				
A. Method blanks	DQM		DQM	
B. Equipment/Field blanks	DQM		DQM	

DQM – Data Qualification Module

Comments:
This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed utilizing Method 8330.

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
3rd Quarter PICATINNY

DISSOLVED GASES

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times		DQM		DQM
2. Blanks				
A. Method blanks	DQM		DQM	
B. Equipment/Field blanks	NA		NA	

DQM – Data Qualification Module

Comments:
This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed utilizing Method AM20GAX.

1. Sample J-MW47-101(070114) was analyzed one day beyond the 14 day recommended holding time. The dissolved gas results for this sample were qualified as estimated.

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
3rd Quarter PICATINNY

METALS

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times	DQM		DQM	
2. Blanks				
A. Method blanks		DQM		DQM
B. Equipment/Field blanks		DQM	DQM	

DQM – Data Qualification Module

Comments:
This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed utilizing Methods 6010, 6020 and 7470A.

2A. (L14061574) Cadmium, nickel, and zinc were detected in the method blank. The associated field samples were qualified as non-detect for these metals if the sample concentrations were less than ten times the blank values.

2B. (L14061574) Zinc was detected in the field blank. The associated field samples were greater than ten times the blank value; therefore, qualification of the data was not warranted.

(L14070436) Zinc and selenium were detected in the field blank. The associated field samples were greater than ten times the blank values; therefore, qualification of the data was not warranted.

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PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
3rd Quarter PICATINNY

GENERAL CHEMISTRY

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times	DQM		DQM	
2. Blanks				
A. Method blanks		DQM	DQM	
B. Equipment/Field blanks		DQM	DQM	

DQM – Data Qualification Module

Comments:
This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed utilizing Methods 9060, 300.0 and 310.2.

2A. (L14070762) Sulfate was detected in the method blank. The associated field samples were greater than five times the blank value; therefore, qualification of the data was not warranted.

2B. (L14061445) TOC was detected in the field blank. The field blank was the only sample analyzed for TOC in this SDG. No qualification is necessary.

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
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Qualifier Definitions:

J – Result is considered to be estimated at the value reported.
UJ – Result is considered not detected but estimated due to QC deficiencies.
UB – Non-detect at the Reporting Limit or at the concentration reported if greater than the RL due to associated blank contamination.
R – Result is qualified as unusable, data point is rejected.

Explanation/Notes:

Sample ID	Parameter	Result	Units	Qualifier	Reason
B-20/24IW003(062314)	Acetone	49.8	ug/L	UB	Blank Contamination
B-20/24MW006(062314)	Acetone	43.1	ug/L	UB	Blank Contamination
B-20/24MW006B(062314)	Acetone	42.2	ug/L	UB	Blank Contamination
B-20/24MW008(062314)	Acetone	6.85	ug/L	UB	Blank Contamination
B-20/24MW015(062314)	Acetone	47.2	ug/L	UB	Blank Contamination
B-20/24MW016(062314)	Toluene	0.744	ug/L	UB	Blank Contamination
B-20/24MW016(062314)	Acetone	42.5	ug/L	UB	Blank Contamination
B-20/24MW017(062314)	Acetone	41.1	ug/L	UB	Blank Contamination
B-20/24MW018(062314)	Acetone	6.02	ug/L	UB	Blank Contamination
B-DUP001(062314)	Acetone	40.1	ug/L	UB	Blank Contamination
B-20/24IW001B(062314)	Acetone	47.7	ug/L	UB	Blank Contamination
B-20/24IW002B(062314)	Acetone	44.7	ug/L	UB	Blank Contamination
B-20/24IW003B(062314)	Acetone	41.1	ug/L	UB	Blank Contamination
B-20/24IW008(062314)	Acetone	48.2	ug/L	UB	Blank Contamination
B-20/24IW009(062314)	Acetone	40.2	ug/L	UB	Blank Contamination
C-34SD004(0-0.5)	Cadmium	0.00334	umol/g	UB	Blank Contamination
G-31SD004(0-0.5)	Cadmium	0.00267	umol/g	UB	Blank Contamination
DUPOO1(062614)	Acetone	38.9	ug/L	UB	Blank Contamination
DUPOO2(062514)	Acetone	44.6	ug/L	UB	Blank Contamination
DUPOO2(062514)	Trichloroethene	0.476	ug/L	UB	Blank Contamination
DUPOO3(062514)	Acetone	34.2	ug/L	UB	Blank Contamination
DUPOO3(062514)	Trichloroethene	1.32	ug/L	UB	Blank Contamination
L171MW1(062614)	Acetone	33.0	ug/L	UB	Blank Contamination
L171MW1(062614)	1,2,4-Trimethylbenzene	0.325	ug/L	UB	Blank Contamination
L-171MW10(062614)	Acetone	6.19	ug/L	UB	Blank Contamination
L171MW10B(062614)	Acetone	4.92	ug/L	UB	Blank Contamination
L-171MW11(062614)	Acetone	37.0	ug/L	UB	Blank Contamination

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
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Sample ID	Parameter	Result	Units	Qualifier	Reason
L-171MW11B(062614)	Acetone	32.9	ug/L	UB	Blank Contamination
L-171MW11B(062614)	Naphthalene	0.201	ug/L	UB	Blank Contamination
L-171MW11B(062614)	1,2,4-Trimethylbenzene	0.263	ug/L	UB	Blank Contamination
L-171MW12(062614)	Acetone	39.0	ug/L	UB	Blank Contamination
L-171MW13(062514)	Toluene	0.322	ug/L	UB	Blank Contamination
L-171MW13(062514)	Acetone	49.7	ug/L	UB	Blank Contamination
L-171MW13B(062514)	Toluene	0.861	ug/L	UB	Blank Contamination
L-171MW13B(062514)	Acetone	50.8	ug/L	UB	Blank Contamination
L-171MW16(062514)	Acetone	47.2	ug/L	UB	Blank Contamination
L-171MW16B(062514)	Trichloroethene	0.964	ug/L	UB	Blank Contamination
L-171MW16B(062514)	Acetone	51.5	ug/L	UB	Blank Contamination
L-171MW16B(062514)	Toluene	0.935	ug/L	UB	Blank Contamination
L-171MW17(062514)	Acetone	43.3	ug/L	UB	Blank Contamination
L-171MW17B(062514)	Toluene	0.277	ug/L	UB	Blank Contamination
L-171MW17B(062514)	Acetone	45.2	ug/L	UB	Blank Contamination
L-171MW17B(062514)	Trichloroethene	0.353	ug/L	UB	Blank Contamination
L-171MW2(062614)	Acetone	3.98	ug/L	UB	Blank Contamination
L-171MW4(062614)	Acetone	35.8	ug/L	UB	Blank Contamination
L-171MW8(062614)	Acetone	37.4	ug/L	UB	Blank Contamination
L-171MW8B(062614)	Acetone	7.25	ug/L	UB	Blank Contamination
L-171MW9(062614)	Acetone	37.0	ug/L	UB	Blank Contamination
L-171MW9(062614)	Acetone	36.5	ug/L	UB	Blank Contamination
L-5MW4(062514)	Acetone	49.5	ug/L	UB	Blank Contamination
L-5MW4(062514)	Trichloroethene	0.254	ug/L	UB	Blank Contamination
L-5MW4D(062514)	Acetone	49.5	ug/L	UB	Blank Contamination
L-5MW4D(062514)	Trichloroethene	0.316	ug/L	UB	Blank Contamination
L-5MW7(062514)	Acetone	48.5	ug/L	UB	Blank Contamination
L-5MW8(062514)	Trichloroethene	0.488	ug/L	UB	Blank Contamination
L-5MW8(062514)	Acetone	44.4	ug/L	UB	Blank Contamination
L-6MW4(062514)	Trichloroethene	0.973	ug/L	UB	Blank Contamination
L-6MW4(062514)	Acetone	36.9	ug/L	UB	Blank Contamination
L-6MW-4D(062514)	Acetone	47.1	ug/L	UB	Blank Contamination
L-6MW-4D(062514)	Trichloroethene	0.765	ug/L	UB	Blank Contamination
L-DM5-2(062514)	Acetone	51.7	ug/L	UB	Blank Contamination
L-DM6-1(062514)	Acetone	45.9	ug/L	UB	Blank Contamination
L-DM6-2(062514)	Acetone	41.8	ug/L	UB	Blank Contamination

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
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Sample ID	Parameter	Result	Units	Qualifier	Reason
L-DM6-2(062514)	Trichloroethene	0.381	ug/L	UB	Blank Contamination
L-DM6-3(062514)	Acetone	51.5	ug/L	UB	Blank Contamination
L-171MW14(062614)	Acetone	35.5	ug/L	UB	Blank Contamination
L-171MW14B(062614)	Acetone	40.3	ug/L	UB	Blank Contamination
L-171MW5(062614)	Acetone	48.1	ug/L	UB	Blank Contamination
L-171MW5B(062614)	Acetone	41.8	ug/L	UB	Blank Contamination
L-171MW6(062614)	Acetone	46.1	ug/L	UB	Blank Contamination
L-171MW6B(062614)	Acetone	36.7	ug/L	UB	Blank Contamination
L-171MW6C(062614)	Acetone	38.5	ug/L	UB	Blank Contamination
L-171MW6C(062614)	Toluene	0.702	ug/L	UB	Blank Contamination
L-171MW7B(062614)	Toluene	0.265	ug/L	UB	Blank Contamination
L-171MW7B(062614)	Acetone	48.3	ug/L	UB	Blank Contamination
L-DM17-3(062614)	Acetone	47.1	ug/L	UB	Blank Contamination
J-2DUP001(070114)	Acetone	50.4	ug/L	UB	Blank Contamination
J-2MW004D(070114)	Acetone	40.1	ug/L	UB	Blank Contamination
J-2MW005(070114)	Acetone	42.2	ug/L	UB	Blank Contamination
J-2MW010(070114)	Acetone	52.5	ug/L	UB	Blank Contamination
J-2MW010(070114)	Naphthalene	0.526	ug/L	UB	Blank Contamination
J-2MW014(070114)	Acetone	47.7	ug/L	UB	Blank Contamination
J-2MW014(070114)	Toluene	0.876	ug/L	UB	Blank Contamination
J-2MW014(070114)	Naphthalene	0.360	ug/L	UB	Blank Contamination
J-2MW017(070114)	Acetone	50.7	ug/L	UB	Blank Contamination
J-2MW025(070114)	Acetone	44.7	ug/L	UB	Blank Contamination
J-2MW026(070114)	Acetone	49.3	ug/L	UB	Blank Contamination
J-2MW027(070114)	Acetone	44.0	ug/L	UB	Blank Contamination
J-MW47-101(070114)	Ethane	0.0042	ug/l	J	Holding Time
J-MW47-101(070114)	Methane	0.15	ug/l	J	Holding Time
J-MW47-101(070114)	Ethene	0.0085	ug/l	J	Holding Time
J-MW47-101(070114)	Acetone	44.7	ug/L	UB	Blank Contamination
J-MW47-102(070114)	Acetone	49.1	ug/L	UB	Blank Contamination
L125MW1A(063014)	Acetone	48.6	ug/L	UB	Blank Contamination
L125MW3(063014)	Acetone	49.9	ug/L	UB	Blank Contamination
L-B1090MW2(063014)	Acetone	47.7	ug/L	UB	Blank Contamination
DUP004(070214)	Acetone	43.3	ug/L	UB	Blank Contamination
F-104MW3(070114)	Acetone	43.8	ug/L	UB	Blank Contamination
F-104MW4(070114)	Acetone	44.9	ug/L	UB	Blank Contamination

PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
3rd Quarter PICATINNY

Sample ID	Parameter	Result	Units	Qualifier	Reason
F-138MW4(070114)	Acetone	49.5	ug/L	UB	Blank Contamination
F-MW138-1(070114)	Acetone	48.4	ug/L	UB	Blank Contamination
F-MWF2A(070114)	Acetone	38.0	ug/L	UB	Blank Contamination
F-MWF2B(070114)	Acetone	41.0	ug/L	UB	Blank Contamination
G-GM004(070114)	Acetone	46.8	ug/L	UB	Blank Contamination
G-GMW5(070114)	Acetone	42.7	ug/L	UB	Blank Contamination
G-MW52-2(070114)	Acetone	46.2	ug/L	UB	Blank Contamination
G-MWG-2B(070114)	Acetone	35.6	ug/L	UB	Blank Contamination
H-62MW2(070114)	Acetone	42.3	ug/L	UB	Blank Contamination
H-64MW2(070114)	Acetone	42.4	ug/L	UB	Blank Contamination
L-114MW1A(070114)	Acetone	49.1	ug/L	UB	Blank Contamination
L-125MW1B)070114)	Acetone	43.7	ug/L	UB	Blank Contamination
L-161MW1B(070214)	Acetone	6.36	ug/L	UB	Blank Contamination
L-161MW2(070214)	Acetone	44.8	ug/L	UB	Blank Contamination
L-161MW4B(070214)	Acetone	47.1	ug/L	UB	Blank Contamination
L-161MW5(070114)	Acetone	46.1	ug/L	UB	Blank Contamination
L-161MW7(070114)	Acetone	47.5	ug/L	UB	Blank Contamination
L-17MW2(070114)	Acetone	48.5	ug/L	UB	Blank Contamination
L-35(MW5C(070114)	Acetone	48.3	ug/L	UB	Blank Contamination
L-35MW5B(070114)	Acetone	40.4	ug/L	UB	Blank Contamination
L-B1038MW2(070214)	Acetone	46.4	ug/L	UB	Blank Contamination
L-B1038MW3(070214)	Acetone	46.6	ug/L	UB	Blank Contamination
E-11WG-MW001(070914)	Methylene chloride	0.434	ug/L	UB	Blank Contamination
E-3WG-MW002(070914)	Methylene chloride	0.355	ug/L	UB	Blank Contamination
E-70-MW004(070914)	Methylene chloride	0.427	ug/L	UB	Blank Contamination
E-80-MW003(070914)	Acetone	39.0	ug/L	UB	Blank Contamination
E-82-MW001(071014)	Methylene chloride	0.366	ug/L	UB	Blank Contamination
E-95-MW003(070914)	Acetone	36.4	ug/L	UB	Blank Contamination
E-MW001(070914)	Acetone	35.0	ug/L	UB	Blank Contamination
E-MW002(070914)	Acetone	40.3	ug/L	UB	Blank Contamination
E-MW012H(070914)	Methylene chloride	0.341	ug/L	UB	Blank Contamination
E-MW012L(070914)	Methylene chloride	0.383	ug/L	UB	Blank Contamination
D-111-1(070914)	Acetone	10.9	ug/L	UB	Blank Contamination
D-112-7(070914)	Acetone	6.47	ug/L	UB	Blank Contamination
D-13-1(070914)	Acetone	32.4	ug/L	UB	Blank Contamination
D-41-1(070914)	Acetone	32.8	ug/L	UB	Blank Contamination

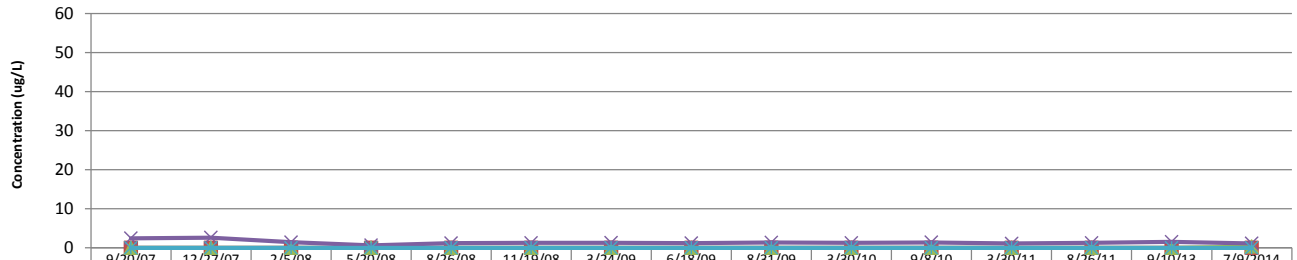
PICATINNY ARSENAL
DATA VALIDATION REPORT
SDGs: L14061445, L14061574, L14061687, L14061689, L14070131, L14070273, L14070436, L14070452, L14070459, L14070524, L14070607, L14070647, L14070678 and L14070762
3rd Quarter PICATINNY

Sample ID	Parameter	Result	Units	Qualifier	Reason
D-41-14(070914)	Acetone	6.95	ug/L	UB	Blank Contamination
D-41-16(070914)	Acetone	6.37	ug/L	UB	Blank Contamination
D-41-17(070914)	Acetone	6.76	ug/L	UB	Blank Contamination
D-41-8(070914)	Acetone	34.0	ug/L	UB	Blank Contamination
D-41-9(070914)	Acetone	33.8	ug/L	UB	Blank Contamination
D-92-3(070914)	Acetone	11.4	ug/L	UB	Blank Contamination
D-CAF-2(070914)	Acetone	11.6	ug/L	UB	Blank Contamination
D-CAF-6(070914)	Acetone	9.73	ug/L	UB	Blank Contamination
D-MW21-1(070914)	Acetone	8.64	ug/L	UB	Blank Contamination
D-MWD-1(070914)	Acetone	6.76	ug/L	UB	Blank Contamination
D-PRB001(070914)	Acetone	8.06	ug/L	UB	Blank Contamination
D-PRB001(070914)	Methylene chloride	0.870	ug/L	UB	Blank Contamination
D-PRB002(070914)	Acetone	10.0	ug/L	UB	Blank Contamination
D-PRB002(070914)	Methylene chloride	0.337	ug/L	UB	Blank Contamination
D-PRB003(070914)	Acetone	7.46	ug/L	UB	Blank Contamination
D-PRB003(070914)	Methylene chloride	0.314	ug/L	UB	Blank Contamination
D-PRB004(070914)	Acetone	7.84	ug/L	UB	Blank Contamination
D-PRB004(070914)	Methylene chloride	0.429	ug/L	UB	Blank Contamination
D-PRB005(070914)	Acetone	6.03	ug/L	UB	Blank Contamination
D-PRB005(070914)	1,2,4-Trichlorobenzene	0.288	ug/L	UB	Blank Contamination
D-PRB006(070914)	Acetone	5.79	ug/L	UB	Blank Contamination
D-PRB007(070914)	Acetone	5.32	ug/L	UB	Blank Contamination
D-PRB008(070914)	Acetone	5.92	ug/L	UB	Blank Contamination
D-PRB009(070914)	Acetone	5.43	ug/L	UB	Blank Contamination
D-PRB010(070914)	Acetone	4.05	ug/L	UB	Blank Contamination
D-PZ001(071014)	Benzene	0.163	ug/L	UB	Blank Contamination
D-PZ002(071014)	1,2,4-Trichlorobenzene	0.307	ug/L	UB	Blank Contamination
D-PZ002(071014)	Benzene	0.236	ug/L	UB	Blank Contamination
D-PZ003(071014)	Benzene	0.146	ug/L	UB	Blank Contamination
DUP001(071014)	Acetone	5.55	ug/L	UB	Blank Contamination

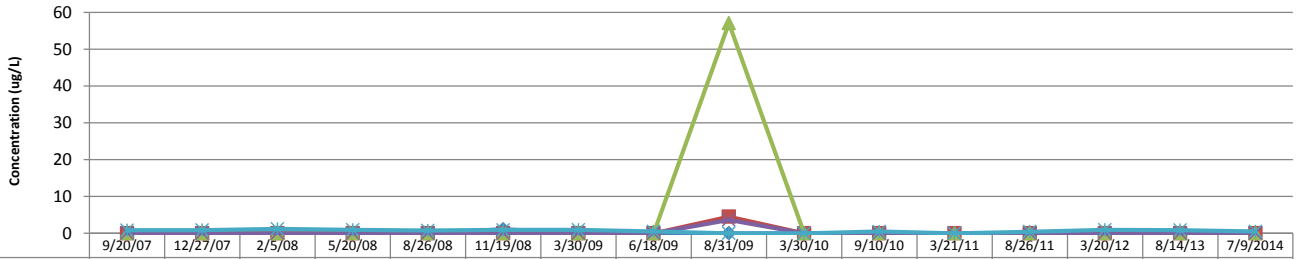
Appendix C

Trend Plots

Trend Plots of Select VOC Data, Area E (PICA-077) Groundwater



	9/20/07	12/27/07	2/5/08	5/20/08	8/26/08	11/19/08	3/24/09	6/18/09	8/31/09	3/30/10	9/8/10	3/30/11	8/26/11	9/10/13	7/9/2014
1,1-Dichloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.306
Trichloroethene	2.44	2.61	1.43	0.65	1.16	1.25	1.3	1.17	1.36	1.26	1.4	1.09	1.26	1.52	1.14
Vinyl chloride	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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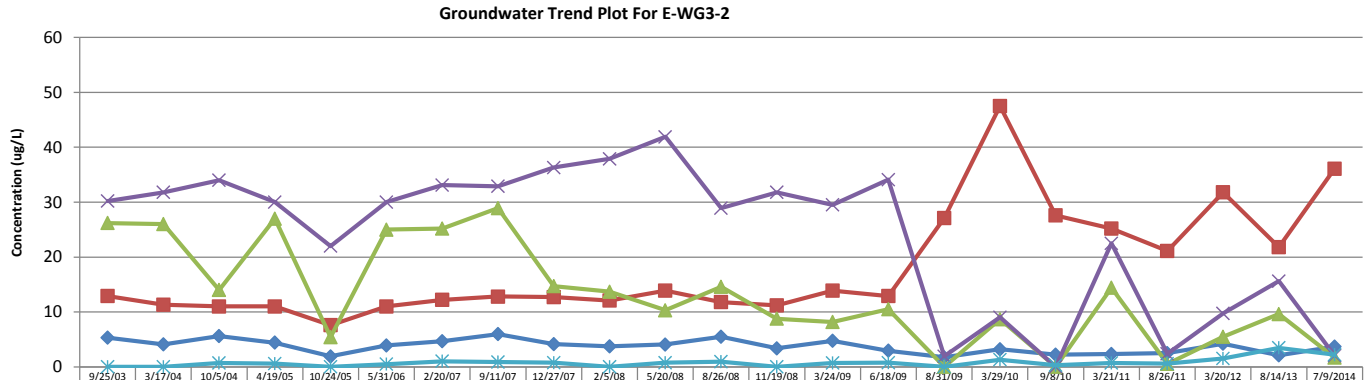
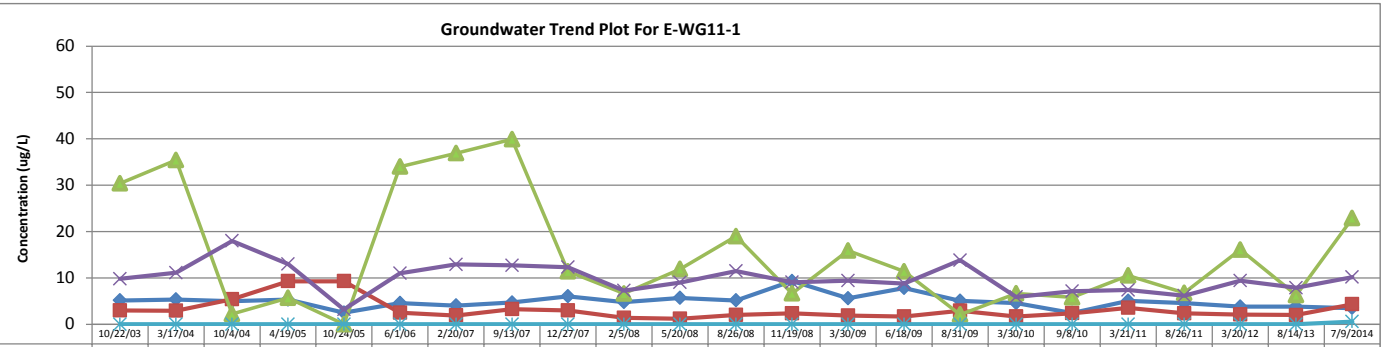
1,1-Dichloroethene	0	0	0	0	0	1.06	0	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	0	0	0	0	0	0	0	0	4.51	0	0	0	0	0	0	0
Tetrachloroethene	0	0	0	0	0	0	0	0	57.1	0	0	0	0	0	0	0
Trichloroethene	0	0	0	0	0	0	0	0	3.61	0	0	0	0	0	0	0
Vinyl chloride	0.819	0.866	1.2	0.936	0.769	0.906	0.969	0.486	0	0	0.456	0	0.447	0.965	0.862	0.533

Trend Plots of Select VOC Data, Area E (PICA-077) Groundwater

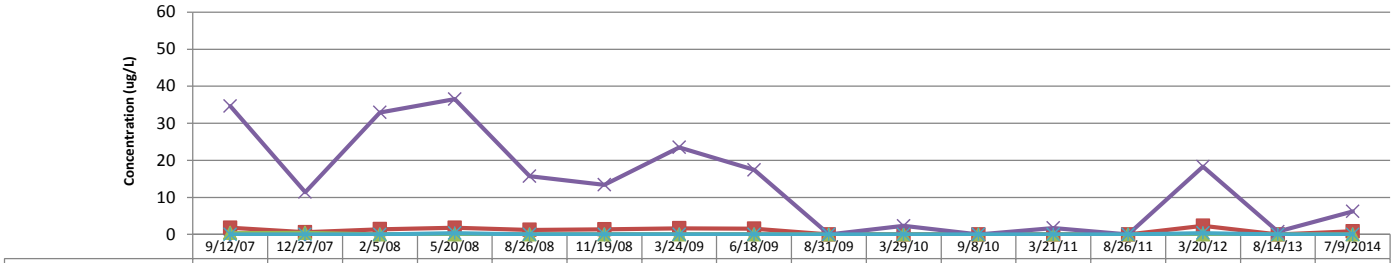


	9/25/03	3/17/04	10/5/04	4/19/05	10/24/05	5/31/06	2/20/07	9/11/07	12/27/07	2/5/08	5/20/08	8/26/08	11/19/08	3/24/09	6/18/09	8/31/09	3/29/10	9/8/10	3/21/11	8/26/11	3/20/12	8/14/13	7/9/2014
1,1-Dichloroethene	5.3	4.09	5.6	4.4	1.9	3.9	4.66	5.97	4.15	3.71	4.07	5.47	3.37	4.73	2.94	1.73	3.19	2.23	2.35	2.49	4.21	2.08	3.7
cis-1,2-Dichloroethene	12.9	11.3	11	11	7.6	11	12.2	12.8	12.7	12.1	13.9	11.8	11.2	13.9	12.9	27.1	47.5	27.6	25.2	21.1	31.8	21.8	36.1
Tetrachloroethene	26.2	26	14	27	5.4	25	25.2	28.9	14.7	13.7	10.3	14.6	8.77	8.18	10.5	0	8.68	0	14.4	0.533	5.49	9.6	1.69
Trichloroethene	30.2	31.8	34	30	22	30	33.1	32.9	36.3	37.9	41.9	28.9	31.8	29.5	34.1	1.94	9.05	0	22.5	2.38	9.73	15.6	2.04
Vinyl chloride	0	0	0.7	0.57	0	0.49	1.02	0.868	0.738	0	0.747	0.949	0	0.716	0.762	0	1.3	0.284	0.685	0.595	1.52	3.47	2.23

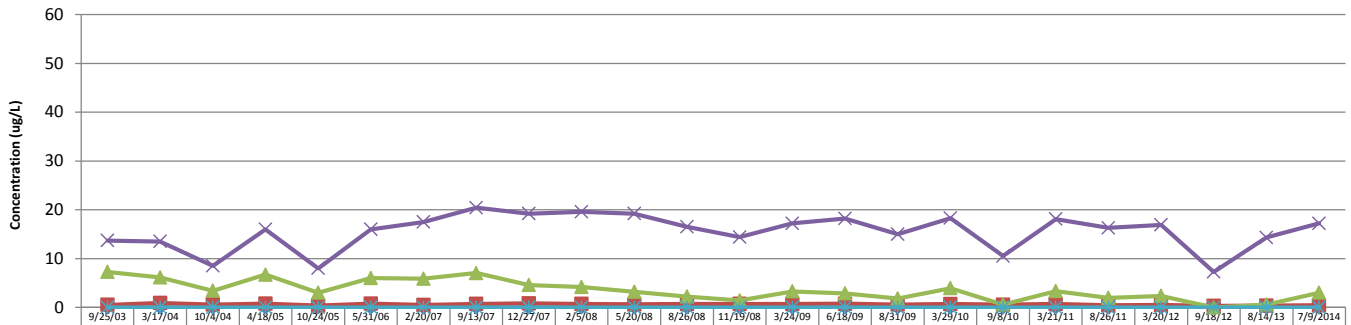


	10/22/03	3/17/04	10/4/04	4/19/05	10/24/05	6/1/06	2/20/07	9/13/07	12/27/07	2/5/08	5/20/08	8/26/08	11/19/08	3/30/09	6/18/09	8/31/09	3/30/10	9/8/10	3/21/11	8/26/11	3/20/12	8/14/13	7/9/2014
1,1-Dichloroethene	5.15	5.33	5	5.3	2.5	4.6	4.05	4.69	6.03	4.79	5.68	5.14	9.33	5.58	7.8	5.08	4.57	2.43	5.06	4.6	3.81	3.81	3.5
cis-1,2-Dichloroethene	2.99	2.93	5.4	9.3	9.3	2.5	1.91	3.26	2.98	1.37	1.2	2	2.35	1.87	1.69	2.95	1.66	2.39	3.55	2.37	2.12	1.99	4.32
Tetrachloroethene	30.4	35.4	2.2	5.7	0	34	36.9	39.9	11.4	6.63	11.9	19	6.64	15.9	11.4	2.09	6.64	5.79	10.5	6.76	16.1	6.27	22.9
Trichloroethene	9.81	11.1	18	13	3.2	11	12.9	12.7	12.3	7.28	9	11.5	9.05	9.39	8.76	13.8	5.87	7.16	7.4	6.16	9.42	7.88	10.2
Vinyl chloride	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.548

Trend Plots of Select VOC Data, Area E (PICA-077) Groundwater

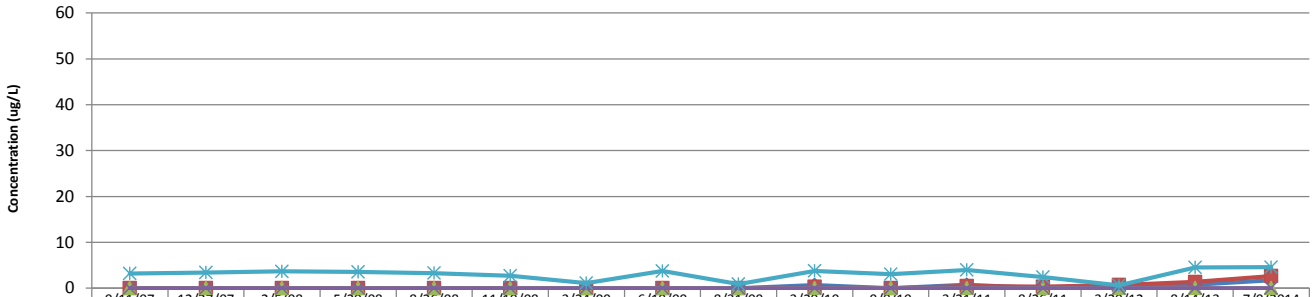


	9/12/07	12/27/07	2/5/08	5/20/08	8/26/08	11/19/08	3/24/09	6/18/09	8/31/09	3/29/10	9/8/10	3/21/11	8/26/11	3/20/12	8/14/13	7/9/2014
1,1-Dichloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	1.77	0.564	1.4	1.8	1.21	1.35	1.66	1.57	0	0	0	0	0	2.3	0	0.813
Tetrachloroethene	0.367	0.408	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trichloroethene	34.6	11.4	32.9	36.5	15.7	13.4	23.5	17.4	0	2.29	0	1.73	0	18.3	0.724	6.2
Vinyl chloride	0	0	0	0.31	0	0	0	0	0	0	0	0	0	0.369	0	0

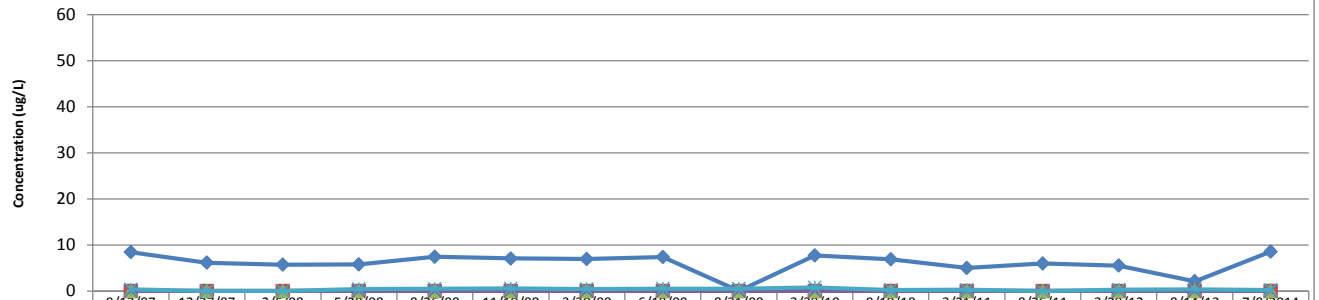


	9/25/03	3/17/04	10/4/04	4/18/05	10/24/05	5/31/06	2/20/07	9/13/07	12/27/07	2/5/08	5/20/08	8/26/08	11/19/08	3/24/09	6/18/09	8/31/09	3/29/10	9/8/10	3/21/11	8/26/11	3/20/12	9/18/12	8/14/13	7/9/2014
1,1-Dichloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	0.51	0.88	0.56	0.77	0.33	0.75	0.503	0.699	0.82	0.691	0.593	0.674	0.697	0.685	0.723	0.555	0.668	0.545	0.666	0.452	0.5	0.29	0.362	0.412
Tetrachloroethene	7.26	6.13	3.4	6.7	3	6	5.87	7.02	4.57	4.14	3.2	2.23	1.39	3.27	2.86	1.83	3.91	0.586	3.33	1.95	2.36	0	0.555	3
Trichloroethene	13.7	13.5	8.5	16	8	16	17.5	20.4	19.2	19.6	19.2	16.5	14.4	17.2	18.2	15	18.3	10.5	18.1	16.3	16.9	7.27	14.3	17.2
Vinyl chloride	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Trend Plots of Select VOC Data, Area E (PICA-077) Groundwater

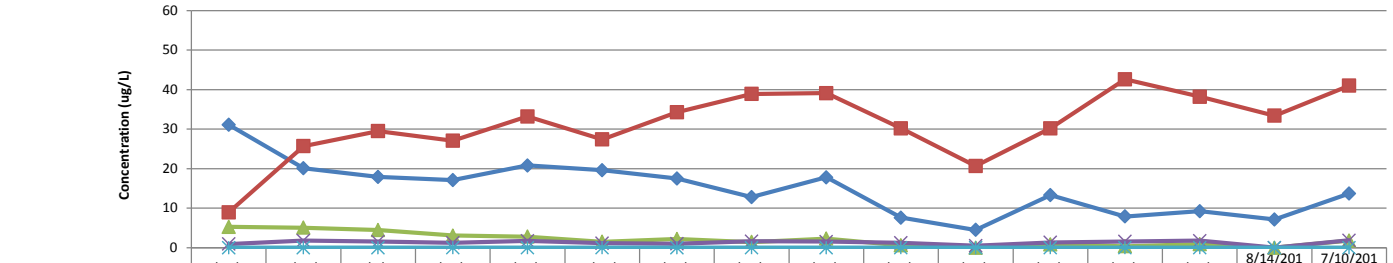


	9/11/07	12/27/07	2/5/08	5/20/08	8/26/08	11/19/08	3/24/09	6/18/09	8/31/09	3/29/10	9/8/10	3/21/11	8/26/11	3/20/12	8/14/13	7/9/2014
1,1-Dichloroethene	0	0	0	0	0	0	0	0	0	0.69	0	0.735	0	0.642	0.736	1.7
cis-1,2-Dichloroethene	0	0	0	0	0	0	0	0	0	0.29	0	0.47	0.297	0.693	1.35	2.65
Tetrachloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trichloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vinyl chloride	3.17	3.39	3.65	3.55	3.28	2.68	1.09	3.72	0.872	3.78	3.03	3.96	2.43	0.596	4.51	4.57

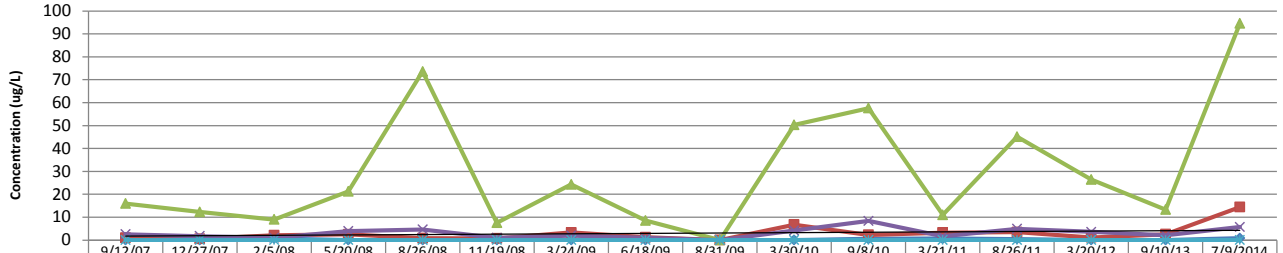


	9/12/07	12/27/07	2/5/08	5/20/08	8/26/08	11/19/08	3/30/09	6/18/09	8/31/09	3/30/10	9/10/10	3/21/11	8/26/11	3/20/12	8/14/13	7/9/2014
1,1-Dichloroethene	8.46	6.18	5.75	5.81	7.47	7.09	6.96	7.43	0	7.73	6.9	5.01	6	5.55	2.15	8.55
cis-1,2-Dichloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trichloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vinyl chloride	0.371	0	0	0.465	0.502	0.568	0.458	0.545	0.543	0.811	0.262	0.28	0	0.321	0.41	0.259

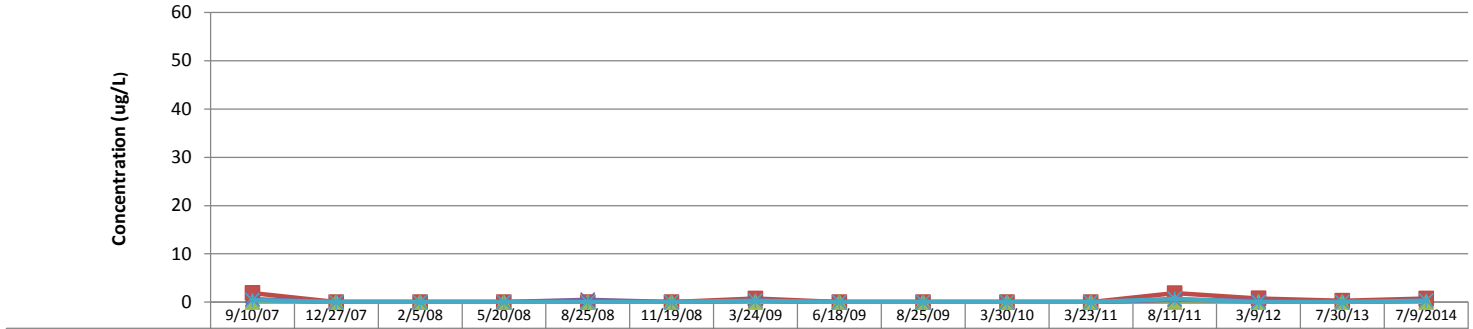
Trend Plots of Select VOC Data, Area E (PICA-077) Groundwater



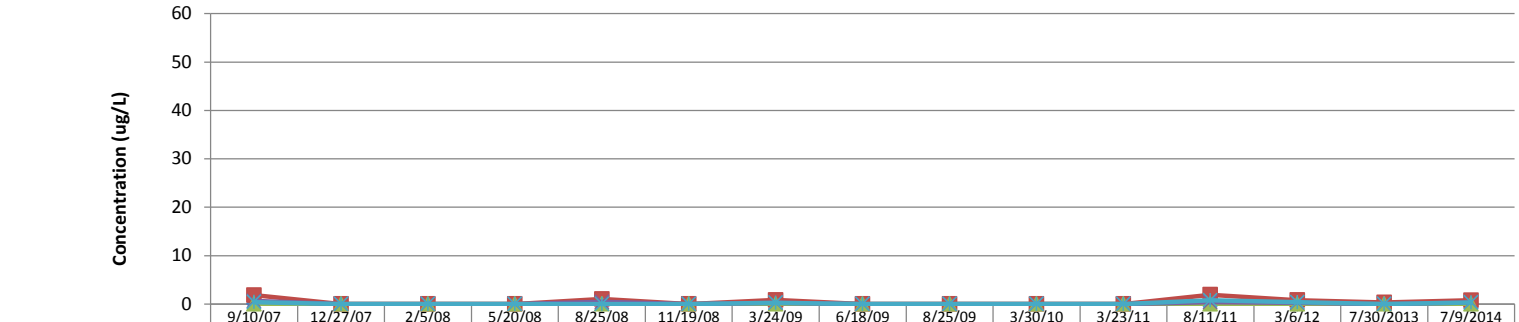
	9/12/07	12/27/07	2/5/08	5/20/08	8/26/08	11/19/08	3/30/09	6/18/09	8/31/09	3/30/10	9/10/10	3/21/11	8/26/11	3/20/12	8/14/2013	7/10/2014
1,1-Dichloroethene	31.1	20.1	17.9	17.1	20.8	19.6	17.5	12.8	17.8	7.6	4.5	13.3	7.9	9.23	7.13	13.7
cis-1,2-Dichloroethene	8.93	25.7	29.5	27.1	33.2	27.4	34.3	38.9	39.1	30.2	20.7	30.2	42.6	38.2	33.4	41
Tetrachloroethene	5.28	5.07	4.44	3.07	2.8	1.51	2.22	1.44	2.29	0.628	0	0.839	0.391	0.906	0	1.79
Trichloroethene	0.953	1.78	1.54	1.22	1.74	1.13	1.03	1.62	1.54	1.23	0.486	1.36	1.59	1.77	0	1.86
Vinyl chloride	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



	9/12/07	12/27/07	2/5/08	5/20/08	8/26/08	11/19/08	3/24/09	6/18/09	8/31/09	3/30/10	9/8/10	3/21/11	8/26/11	3/20/12	9/10/13	7/9/2014
1,1-Dichloroethene	0	0	0.685	0	0	0	0	0	0	0.077	0.522	0.665	0.509	0	0	0.851
cis-1,2-Dichloroethene	1.04	0.515	2.14	2.54	0.846	0.727	3.32	1.24	0	6.77	2.32	3.23	3.48	1.18	2.6	14.4
Tetrachloroethene	16	12.3	9.03	21.3	73.6	7.57	24.3	8.56	0	50.3	57.6	11	45.1	26.4	13.3	94.6
Trichloroethene	2.57	1.76	1.02	3.95	4.67	1.05	1.99	1.02	0	4.19	8.4	1.68	4.92	3.61	2.19	5.75
Vinyl chloride	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

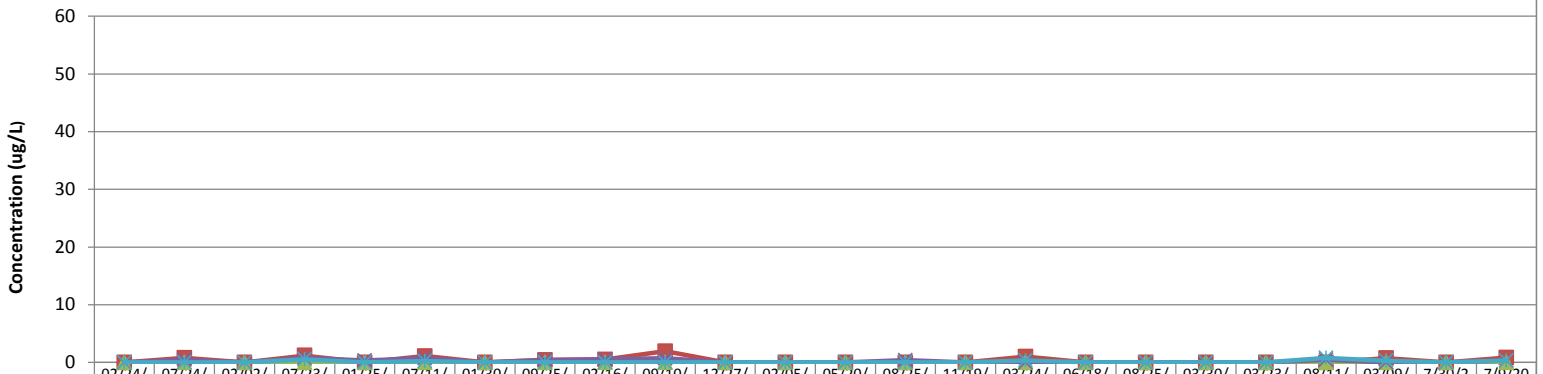


	9/10/07	12/27/07	2/5/08	5/20/08	8/25/08	11/19/08	3/24/09	6/18/09	8/25/09	3/30/10	3/23/11	8/11/11	3/9/12	7/30/13	7/9/2014
1,1-Dichloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	1.9	0	0	0	0	0	0.733	0	0	0	0	1.85	0.763	0.281	0.742
Tetrachloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trichloroethene	0.635	0	0	0	0.5	0	0.268	0	0	0	0	0.457	0.28	0	0.333
Vinyl chloride	0.392	0	0	0	0	0	0.291	0	0	0	0	0.702	0	0	0.304



	9/10/07	12/27/07	2/5/08	5/20/08	8/25/08	11/19/08	3/24/09	6/18/09	8/25/09	3/30/10	3/23/11	8/11/11	3/6/12	7/30/2013	7/9/2014
1,1-Dichloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	1.81	0	0	0	1.01	0	0.819	0	0	0	0	1.91	0.805	0.333	0.789
Tetrachloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trichloroethene	0.618	0	0	0	0.426	0	0.251	0	0	0	0	0.413	0.269	0	0.344
Vinyl chloride	0.393	0	0	0	0	0	0.282	0	0	0	0	0.757	0.35	0	0.321

Trend Plots of Select VOC Data, Area E (PICA-077) Surface Water



	02/24/03	07/24/03	02/02/04	07/23/04	01/25/05	07/11/05	01/30/06	09/25/06	02/16/07	09/10/07	12/27/07	02/05/08	05/20/08	08/25/08	11/19/08	03/24/09	06/18/09	08/25/09	03/30/10	03/23/11	08/11/11	03/09/12	7/30/2013	7/9/2014
1,1-Dichloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	0	0.79	0	1.2	0	1.1	0	0.433	0.515	1.95	0	0	0	0	0	0.998	0	0	0	0	0	0.744	0	0.828
Tetrachloroethene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trichloroethene	0	0.44	0	0.78	0.32	0.73	0	0.411	0.539	0.71	0	0	0	0.391	0	0	0	0	0	0	0.446	0	0	0.342
Vinyl chloride	0	0	0	0.52	0	0.23	0	0	0	0	0	0	0	0	0	0.354	0	0	0	0	0.795	0.313	0	0.335