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April 13, 2016

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REFERENCE: **National Guard Bureau Contract No. DAHA92-01-D-0008 Delivery Order 198, Eastern Regional Installation Restoration Program Remedial Action – Operations, Long Term Monitoring, Project Closeout at Multiple Air National Guard Installations Eastern Region, Project Number: ANG2012EASTIRP**

SUBJECT: **Final Semiannual Performance Monitoring Report for Installation Restoration Program Sites 4 and 9 - Francis S. Gabreski International Airport Westhampton Beach, New York, dated April 2016**

Dear Ms. Bishop,

Enclosed please find a CD containing an electronic (PDF) copy of the above referenced document for review. This submittal constitutes partial completion of Task 3.5.5 of Delivery Order (DO) 198 for the National Guard Bureau contract referenced above.

Should you have any questions, please do not hesitate to contact me at 865-481-8749 or by email at Michael.D.Poligone@leidos.com. Thank you, Ms. Bishop.

Sincerely,

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Final

SEMIANNUAL PERFORMANCE MONITORING REPORT FOR INSTALLATION RESTORATION PROGRAM SITES 4 AND 9

NEW YORK AIR NATIONAL GUARD
(106TH RESCUE WING)
FRANCIS S. GABRESKI INTERNATIONAL AIRPORT

WESTHAMPTON BEACH, NEW YORK

April 2016

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FINAL

SEMIANNUAL
PERFORMANCE MONITORING REPORT
FOR
INSTALLATION RESTORATION PROGRAM
SITES 4 AND 9

NEW YORK AIR NATIONAL GUARD
(106TH RESCUE WING)
FRANCIS S. GABRESKI INTERNATIONAL AIRPORT
WESTHAMPTON BEACH, NEW YORK

April 2015

Contract Number DAHA92-01-D-0008
Task Order Number 0198

Prepared for
NGB/A7OR
Joint Base Andrews, Maryland

Prepared by
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CONTENTS

FIGURES v
TABLES v
ACRONYMS vii

1.0 INTRODUCTION 1
1.1 BACKGROUND 1
1.2 PERFORMANCE MONITORING AT SITES 4 AND 9 3
1.2.1 Historical Events 3
1.2.2 Recent Events 4
1.3 CLOSURE MONITORING AND NFA APPROVAL AT SITE 9 4
1.4 OPERATIONS AND MAINTENANCE 5
1.5 DEVIATIONS FROM THE WORK PLAN 6
1.6 REMEDIATION-DERIVED WASTE 6

2.0 GROUNDWATER SAMPLING RESULTS 7
2.1 WATER LEVEL MEASUREMENTS 7
2.2 ANALYTICAL RESULTS 7
2.2.1 Field Measurements 9

3.0 CONCLUSIONS 11
3.1 SITE 4 11
3.2 SITE 9 12

REFERENCES 12
FIGURES 15
TABLES 27

APPENDIX A MONITORING WELL PURGE LOGS A-1
APPENDIX B ANALYTICAL LABORATORY DATA PACKAGES B-1
APPENDIX C AUGUST 2015 NEW AIR BIOSPARGE POINTS C-1
APPENDIX D SITE 9 NO FURTHER ACTION REQUEST AND APPROVAL LETTERS D-1

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FIGURES

1. IRP Sites 4 and 9 Location Map 17
2. BTEX Constituents Detected Above Criteria per Well, 2008 through October 2015 19
3. DO Concentrations Over Time at Select Site 4 Monitoring Wells 20
4. ORP Over Time at Select Site 4 Monitoring Wells 21
5. Extent of BTEX Contamination in Groundwater at IRP Sites 4 and 9 – July 2008 (Baseline) 23
6. Extent of BTEX Contamination in Groundwater at IRP Site 4 – October 2015 24
7. Total BTEX Concentrations Over Time at Select Site 4 Monitoring Wells 25

TABLES

1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 29
2. Total BTEX Concentrations Over Time at IRP Site 4 45

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ACRONYMS

ANG	Air National Guard
BTEX	benzene, toluene, ethylbenzene, and xylene
DO	dissolved oxygen
FCO	field change order
ft	feet
gal	gallons
hr	hour
IRP	Installation Restoration Program
MCL	maximum contaminant level
MDC	maximum detected concentration
mg/L	milligrams per liter
mV	millivolt
µg/L	micrograms per liter
NFA	no further action
NGB	National Guard Bureau
NTU	nephelometric turbidity units
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
ORP	oxidation-reduction potential
RA-O	remedial action-operations
S.U.	standard unit
SVOC	semivolatile organic compound
∑BTEX	total BTEX
VOC	volatile organic compound
WP	Work Plan

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1.0 INTRODUCTION

Leidos is conducting remedial action-operations (RA-O) for Installation Restoration Program (IRP) Site 4 at the New York Air National Guard (ANG) 106th Rescue Wing, located at Francis S. Gabreski International Airport, Westhampton Beach, New York (Figure 1). RA-O activities are being conducted under National Guard Bureau (NGB) Contract Number DAHA92-01-D-0008, Task Order 0198, on behalf of the NGB Operations Restoration Branch, which manages IRP activities for ANG. Petroleum-contaminated groundwater at IRP Site 4 is being remediated in accordance with the *Work Plan Addendum #3 for Remedial Action Operations, Long-Term Monitoring, and Project Closeout at Installation Restoration Program Sites 1, 4, 7, 8, 9, 10, 11 and 12, 106th Rescue Wing, New York Air National Guard, Francis S. Gabreski Airport, Westhampton Beach, New York* (ANG 2012b). The primary groundwater contaminants are benzene, toluene, ethylbenzene, and xylene (BTEX). Since 2009, a biosparge treatment system has been in operation at the sites. This system was optimized in September 2012, as described in the Final *Remedial Action Optimization Construction Completion Report for Installation Restoration Program Sites 4 and 9, 106th Rescue Wing, New York Air National Guard, Francis S. Gabreski Airport, Westhampton Beach, New York* (ANG 2013a), with additional modifications made from October 28, 2013, through November 1, 2013; from August 25, 2014, through August 28, 2014; and from August 3, 2015, through August 17, 2015. This is the sixth performance monitoring report following the September 2012 optimization activities and the third performance monitoring report following the modifications made in August 2014.

This report summarizes the RA-O activities conducted during the six month period from April 2015 through September 2015 and the results of two quarterly groundwater monitoring events conducted in June 2015 and October 2015 at IRP Site 4. RA-O activities at IRP Site 4 included routine operation and maintenance tasks for the active biosparge system and two performance groundwater monitoring events.

The following four appendices are included in this report:

- Appendix A presents the monitoring well purge logs.
- Appendix B contains the analytical laboratory data packages.
- Appendix C contains Field Change Order (FCO) No. 4 and August 2015 air biosparge well construction details.
- Appendix D presents No Further Action (NFA) approval for IRP Site 9.

In August 2015, three additional biosparge points were installed at IRP Site 4 in the vicinity of monitoring wells MW04-GW03 and MW04-GW05 (see Appendix C).

Groundwater monitoring at IRP Site 9 was discontinued following the March/April sampling event as site wells demonstrated compliance with remedial goals. The New York State Department of Environmental Conservation (NYSDEC) approved the recommendations for NFA in an email dated November 12, 2015 (see Appendix D).

1.1 BACKGROUND

The Final Decision Document for the Installation Restoration Program Sites 4, 7, and 9, 106th Rescue Wing, New York Air National Guard, Francis S. Gabreski Airport, Westhampton Beach, New York (ANG 2008) presented the selected remedy for cleanup of petroleum contamination at Sites 4 and 9:

removal of contaminants from groundwater in the more concentrated areas of the plume (i.e., areas with baseline total BTEX [∑BTEX] concentrations exceeding 1,000 µg/L) using an air biosparge system and long-term monitoring of the remaining lower concentrations. A sampling event was conducted at IRP Sites 4 and 9 in July 2009 to obtain baseline conditions immediately prior to starting the air biosparge system (ANG 2009). Six performance monitoring events were conducted (January 2010, July/August 2010, March 2011, August 2011, March 2012, and August 2012) prior to optimization activities in September 2012. Results of these six initial performance monitoring events were reported in a series of Semiannual Groundwater Sampling Reports (ANG 2010a, 2010b, 2011a, 2011b, 2012a, 2012c).

- Results of the first two quarterly post-optimization performance monitoring events (November 2012 and February 2013) were reported in the Final *Semiannual Groundwater Sampling Report for Installation Restoration Program Sites 4 and 9, 106th Rescue Wing, New York Air National Guard, Francis S. Gabreski Airport, Westhampton Beach, New York* dated May 2013 (ANG 2013b).

- Results of the third and fourth quarterly post-optimization performance monitoring events (May 2013 and August 2013) were reported in the Final *Semiannual Groundwater Sampling Report for Installation Restoration Program Sites 4 and 9, 106th Rescue Wing, New York Air National Guard, Francis S. Gabreski Airport, Westhampton Beach, New York* dated November 2013 (ANG 2013c).

- Results of the fifth and sixth quarterly post-optimization performance monitoring events (December 2013 and March 2014) and the first closure monitoring event at IRP Site 9 (March 2014) were reported in the Final *Semiannual Groundwater Sampling Report for Installation Restoration Program Sites 4 and 9, 106th Rescue Wing, New York Air National Guard, Francis S. Gabreski Airport, Westhampton Beach, New York* dated July 2014 (ANG 2014a).

- Results of the seventh and eighth quarterly post-optimization performance monitoring events (June and August 2014) and the second and third closure monitoring events at IRP Site 9 (June and August 2014) were reported in the Final *Semiannual Groundwater Sampling Report for Installation Restoration Program Sites 4 and 9, 106th Rescue Wing, New York Air National Guard, Francis S. Gabreski Airport, Westhampton Beach, New York* dated December 2014 (ANG 2014b).

- Results of the ninth and tenth quarterly post-optimization performance monitoring events (November 2014 and March/April 2015) and the fourth and fifth closure monitoring events at IRP Site (November 2014 and March/April 2015) were reported in the Final *Semiannual Groundwater Sampling Report for Installation Restoration Program Sites 4 and 9, 106th Rescue Wing, New York Air National Guard, Francis S. Gabreski Airport, Westhampton Beach, New York* dated July 2015 (ANG 2015a).

Collective groundwater monitoring data prior to 2012 at Sites 4 and 9 indicated that ∑BTEX contamination outside the influence of the biosparge treatment system was not declining rapidly enough to allow for near-term closure of the sites; therefore, optimization of the current biosparge treatment system was proposed.

In support of the proposed optimization design, a pilot study was conducted in July 2012 to evaluate the radius of influence at existing biosparge wells at Site 4. In September 2012, RA-O optimization field activities included installing an additional air compressor and control panel, a second main delivery line with additional branch lines, and new flow valves and meters that allow delivery of air to targeted sections simultaneously; installing 27 additional biosparge injection wells (24 wells at Site 4 and 3 wells at Site 9); and installing two additional groundwater monitoring wells (MW04-GW05 at Site 4 and MW09-03R at Site 9). Results of the pilot study and details of the completed optimization activities are summarized in the Final RA-O Construction Completion Report for IRP Sites 4 and 9 (ANG 2013a).

Subsequent to the September 2012 RA-O optimization field activities, additional biosparge points have been installed, monitoring wells have been replaced, and closure monitoring was completed at Site 9. Additional details of these activities are described in the monitoring and operation and maintenance sections of each applicable semiannual report.

1.2 PERFORMANCE MONITORING AT SITES 4 AND 9

1.2.1 Historical Events

There were six performance monitoring events conducted prior to the September 2012 optimization activities; therefore, the first monitoring event conducted under the current delivery order (DO 0198) was the seventh overall monitoring event since remedial action commenced. This section focuses on monitoring conducted following the September 2012 optimization activities and refers to monitoring events with respect to that event. For example, the November 2012 monitoring event is referred to as the first post-optimization monitoring event instead of the seventh monitoring event.

As outlined in Chapter 5.0 of the Final RA-O Work Plan (WP) Addendum #3, with revisions reflected in FCO #2, groundwater samples are currently being collected, using low-flow purging techniques, from Sites 4 and 9 on a quarterly basis (ANG 2012b). Prior to June 2014, samples collected in odd-numbered quarterly performance monitoring events, beginning with the first post-optimization groundwater monitoring event in November 2012, were analyzed for BTEX to evaluate performance of the treatment system. The presence or absence of BTEX also is used as an indicator for the potential presence of other petroleum-related volatile organic compound (VOC) contaminants. Samples collected in even-numbered quarterly performance monitoring events, beginning with the second post-optimization groundwater monitoring event in February 2013, were analyzed for full-suite VOC constituents to provide a more comprehensive evaluation. However, in the June and August 2014 sampling events, samples were analyzed for full-suite VOCs to provide a more comprehensive evaluation at IRP Site 4 and to meet closure sampling requirements at IRP Site 9.

The first two post-optimization performance monitoring events conducted at IRP Sites 4 and 9 were discussed in detail in the Final Semiannual Groundwater Sampling Report dated May 2013 (ANG 2013b). In November 2012, eight monitoring wells (four from Site 4 and four from Site 9) were sampled for BTEX and field parameters during the seventh performance monitoring event. In February 2013, 18 monitoring wells (9 from Site 4 and 9 from Site 9) were sampled for full-suite VOCs and field parameters during the eighth performance monitoring event. Results for IRP Site 4 are included in Table 1 of this report.

The next two post-optimization performance monitoring events conducted at IRP Sites 4 and 9 were discussed in detail in the Final Semiannual Groundwater Sampling Report dated November 2013 (ANG 2013c). In May 2013, eight monitoring wells (six from Site 4 and two from Site 9) were sampled during the ninth performance monitoring event for BTEX and field parameters. In August 2013, 17 monitoring wells (10 from Site 4 and 7 from Site 9) were sampled during the 10^{th} performance monitoring event for full-suite VOCs and field parameters. Results for IRP Site 4 are included in Table 1 of this report.

The next two post-optimization performance monitoring events conducted at IRP Sites 4 and 9 were discussed in detail in the Final Semiannual Groundwater Sampling Report dated July 2014 (ANG 2014a). In December 2013, 11 monitoring wells (8 from Site 4 and 3 from Site 9) were sampled during the 11^{th} performance monitoring event for BTEX and field parameters. Following the December 2013 event, performance monitoring was discontinued at IRP Site 9 as the site transitioned into closure monitoring (see Section 1.3). Performance monitoring continued at IRP Site 4 in March 2014. In March 2014,

10 monitoring wells from Site 4 were sampled during the 12th performance monitoring event for full-suite VOCs and field parameters. Results for IRP Site 4 are included in Table 1 of this report.

The next two post-optimization performance monitoring events conducted at IRP Site 4 were discussed in detail in the Final Semiannual Groundwater Sampling Report dated December 2014 (ANG 2014b). In June 2014 and again in August 2014, seven monitoring wells from Site 4 were sampled during the 13th and 14th performance monitoring events, respectively, for full-suite VOCs and field parameters. The results are included in Table 1 of this report.

The next two post-optimization performance monitoring events conducted at IRP Site 4 were discussed in detail in the Final Semiannual Groundwater Sampling Report dated July 2015 (ANG 2015a). In November 2014 and again in March/April 2015, nine monitoring wells at Site 4 were sampled during the 15th and 16th performance monitoring events, respectively, for full-suite VOC and field parameters. The results are included in Table 1 of this report.

1.2.2 Recent Events

In June 2015, nine monitoring wells were sampled during the 17th quarterly performance monitoring event located at Site 4 (MW04-GW01, MW04-GW02, MW04-GW03, MW04-GW04R, MW04-GW05, SDW-23AR, PZ-4 SW-06, and SW-07). Samples were submitted for laboratory analysis of all VOC constituents. Field parameters (conductivity, dissolved oxygen [DO], oxidation-reduction potential [ORP], pH, temperature, and turbidity) were measured and recorded at each well (Appendix A).

In October 2015, nine monitoring wells were sampled during the 18th performance monitoring event at Site 4 (MW04-GW01, MW04-GW02, MW04-GW03, MW04-GW04R, MW04-GW05, SDW-23AR, SW-06, SW-07, and PZ-4). Samples were submitted for laboratory analysis for all VOC constituents. Field parameters (conductivity, DO, ORP, pH, temperature, and turbidity) were measured and recorded at each well (Appendix A)

1.3 CLOSURE MONITORING AND NFA APPROVAL AT SITE 9

The Final Decision Document for IRP Sites 4, 7, and 9 (ANG 2008) recommended that four compliance monitoring events be performed for site closure once remedial objectives were achieved. Representatives of NYSDEC and the New York State Department of Health (NYSDOH) confirmed this approach in February 2014; it was agreed that three monitoring wells (MW09-GW02, MW09-GW05, and SW-08) would continue to be sampled for the full suite of VOCs, semivolatile organic compounds (SVOCs), and field parameters as detailed in FCO #2. The site will be eligible for closure following four consecutive compliance monitoring events meeting NYSDEC cleanup criteria and regulatory approval.

The biosparge system was shut down from July to December 2013 at IRP Sites 4 and 9 due to the New York ANG Ramp and Taxiway Improvement Project. Shortly after construction activities associated with the improvement project concluded, the system was restarted at Site 4 in December 2013. As a result of rapid degradation in BTEX contaminants during biosparge operations at IRP Site 9, remedial goals for groundwater at the site were achieved in August 2012. During the 2013 shut-down period, groundwater samples collected during two performance monitoring events (August and December 2013) confirmed the success of remedial actions, as no groundwater contaminant concentrations were observed above regulatory criteria. Approval was granted in February 2014, as documented in FCO #2 to WP Addendum #3, to discontinue remedial actions and performance monitoring at IRP Site 9 and begin compliance monitoring for site closure.

Closure monitoring was conducted at three Site 9 wells (MW09-GW02, MW09-GW05, and SW-08) on a quarterly basis from March 2014 through March/April 2015. Groundwater samples from each event were analyzed for VOCs, SVOCs, and field parameters. Results were reported along with the results of IRP Site 4 performance monitoring in the semiannual reports discussed in Section 1.2.1

NYSDEC concurred with the recommendation for NFA at IRP Site 9 via email on November 12, 2015; a copy of the approval email is included in this report as Appendix D.

1.4 OPERATIONS AND MAINTENANCE

The air biosparge wells deliver air to the subsurface environment to maximize groundwater treatment. Oxygen is used to aid microbial bacteria in degrading hydrocarbons; therefore, flow to individual trunk lines and biosparge points is run continuously with much of the air flow being concentrated in areas containing the highest ∑BTEX contaminants. In general, the full injection network at Site 4 has consistently received flow from one compressor since July 11, 2013, and from both compressors since January 13, 2014. The biosparge system operated approximately 24 hr per day during operational periods, with a total runtime of 19,941 hours or 2.28 years between September 28, 2012, and September 30, 2015. From January 13, 2014, through the present, air flow has been distributed through valve vaults 9, 10, 11, 12, and 14 to treat the areas encompassing wells MW04-GW01, MW04-GW02, MW04-GW03, MW04-GW04, MW04-GW04R, MW04-GW05, SW-6, and SW-7. From October 30, 2014 through the present, air flow has also been distributed through valve vault 8 to treat the areas surrounding well SDW-23AR.

Biosparge system inspections and maintenance are conducted on a monthly basis. Additional routine maintenance, such as changing the oil in the Busch claw compressors, changing the air filters, and other scheduled maintenance, is performed in accordance with the manufacturer's recommendations.

From initial system start up in July 2009 through the time of shut down on September 10, 2012, the total run time was approximately 17,542 hr. The biosparge system was shut down between September 10 and 27, 2012, during RA-O optimization and expansion activities. The upgraded biosparge system operated approximately 24 hr per day or 5,985 hr between September 28, 2012, and July 2, 2013. The system did not operate from October 22 through 29, 2012, due to impacts from Hurricane Sandy, and was periodically shut down in the months of June and July 2013 during daytime periods of high temperatures to avoid overheating the compressor(s). The system is designed to restart automatically once temperatures drop to acceptable levels. The system was shut down on July 11, 2013, due to activities associated with the New York ANG Ramp and Taxiway Improvement Project. In preparation for system shut down, several steps were taken to minimize damage to the wells during construction activities, including installing soft barricades, cutting lines to minimize damage to the wells, and lowering the vaults in the construction area to the new grade. During the shutdown activities associated with the New York ANG Ramp and Taxiway Improvement Project, repairs and improvements were made to the biosparge system.

From October 28, 2013, through November 1, 2013, the following modifications were made to the biosparge treatment system at Site 4:

- Existing piezometer PZ-3 was converted into air biosparge injection point AS-78, and four new air sparge injection points were installed (AS-79 through AS-82), including the extension of supply lines and protective vaults.

- Flow meters were installed on air biosparge injection points AS-57, -61, -66, -67, and -78 through -82.

The system was brought back on line on December 5, 2013, after construction activities associated with the Ramp and Taxiway Improvement Project were completed. However, due to a break in the Site 9 main trunk line, only one compressor (for Site 4) was restarted at that time. On January 13, 2014, a ball valve and vault were installed just north of the Petroleum, Oil, and Lubricants Yard shed; air flow from both compressors is now delivered to Site 4.

In March 2014, heat exchanger # 2 was down for two weeks due to a faulty motor.

During the week of July 20, 2014, as part of the Ramp and Taxiway Improvement Project, a contractor excavated and breached the main biosparge line just north of the high speed taxiway. A second break was discovered approximately 50 ft from the initial breach on August 7, 2014. The two breached lines were repaired during three separate field events in July and August and the system was restarted on August, 27 2014. The two breaches resulted in a four week shutdown during July and August 2014.

In October 2014, ANG taxiway ditch construction in the vicinity of valve vault 8 and associated biosparge wells was completed. The valve at vault 8 was opened on October 30, 2014, to direct air flow to the biosparge points near SDW-23AR.

Sparge Compressor No. 1 (original air compressor installed in 2008) experienced bearing failure in early November 2014. The compressor was removed from service and shipped to the manufacturer on November 7, 2014, for a complete rebuild. The repaired compressor was reinstalled on December 11, 2014, and has run 100% of the time since reinstallation.

In August 2015, three additional air biosparge points were installed in areas where contaminant concentrations have shown the least contaminant degradation over time. Air biosparge point AS-87 was installed in the vicinity of MW04-GW05 and points AS-88 and AS-89 were installed in the vicinity of MW04-GW03. A copy of FCO #4, including a figure showing the locations of these three new points, and as-built construction details are provided in Appendix C.

1.5 DEVIATIONS FROM THE WORK PLAN

The following deviations from the Final RA-O WP Addendum #3 (ANG 2012b) were noted during the June 2015 and October 2015 monitoring events:

- In June 2015, well SW-06 was sampled despite high turbidity (>50 nephelometric turbidity units [NTU]). The sample was collected at 117 NTU. All other field parameters met stabilization criteria prior to sampling.

- In October 2015, well PZ-4 was sampled despite high turbidity (>50 NTU). The sample was collected at 96.6 NTU. All other field parameters met stabilization criteria prior to sampling.

1.6 REMEDIATION-DERIVED WASTE

As in past events, purge and decontamination water from the June and October 2015 groundwater monitoring events was containerized in 55-gal drums and stored on site for future off-site disposal. No drum pickup occurred between June and October 2015.

2.0 GROUNDWATER SAMPLING RESULTS

The following sections present the results of the groundwater performance monitoring events conducted June 23 through 24, 2015, and October 20 through 21, 2015, at IRP Site 4. The analytical results were compared against NYSDEC Class GA groundwater standards (NYSDEC 1999) and the U.S. Environmental Protection Agency National Primary and Secondary Drinking Water Standards maximum contaminant levels (MCLs). Historical analytical data (i.e., results from sampling events conducted prior to November 2012) are shown in Table 1 with data validation qualifiers. Analytical data from performance monitoring events beginning in November 2012 onward are shown with laboratory qualifiers, as specified in Appendix A (Quality Assurance Project Plan) of the Final RA-O WP Addendum #3 (ANG 2012b).

Data validation was performed internally for all performance monitoring samples collected in June and October 2015 at Site 4. Following receipt of the analytical laboratory data packages, results were reviewed to ensure that the precision and accuracy of the data were adequate, as intended. All analytical data from the June and October 2015 events were found to be usable (as qualified). Copies of complete analytical results for both groundwater sampling events are provided in Appendix B.

2.1 WATER LEVEL MEASUREMENTS

Water level measurements at Site 4 were collected in June and October 2015 from sampled monitoring wells. Water level measurements were collected while the sparge system was temporarily inactive; however, no new potentiometric map was generated due to the limited number of wells sampled and recent operations of the biosparge wells. Previous potentiometric figures for the site indicate that the direction of groundwater flow is generally to the southeast.

2.2 ANALYTICAL RESULTS

A total of 18 groundwater samples, excluding field duplicates, were collected from 9 monitoring wells (MW04-GW01, MW04-GW02, MW04-GW03, MW04-GW04R, MW04-GW05, PZ-4, SDW-23AR, SW-06, and SW-07) at IRP Site 4 during performance monitoring events conducted in June and October 2015. All 18 groundwater samples were analyzed for full-suite VOCs. Table 1 summarizes all analytes detected above criteria one or more times in one or more groundwater samples from IRP Site 4 from 2008 through the most recent groundwater sampling event in October 2015. Field parameters and water levels at each well during each sampling event also are included in this table. Results of analyses for BTEX constituents detected above NYSDEC action levels on a well-by-well basis since August 2008 are presented in Figure 2.

June 2015 Performance Monitoring Results at IRP Site 4

Groundwater samples from the nine wells were analyzed for full-suite VOCs in the June 2015 event. A total of 20 VOCs were each detected in at least one groundwater sample: acetone; 2-butanone; n-butylbenzene; sec-butylbenzene; tert-butylbenzene; cyclohexane; ethylbenzene; 2-hexanone; isopropylbenzene; p-isopropyltoluene; methylcyclohexane; 4-methyl-2-pentanone; naphthalene; n-propylbenzene; 1,1,2,2-tetrachloroethane; toluene; 1,2,4-trimethylbenzene (TMB); 1,3,5-TMB; *m*,*p*-xylene; and *o*-xylene.

The BTEX results for groundwater samples collected in June 2015 at IRP Site 4 are summarized below:

- Benzene was not detected in any samples from the nine monitoring wells.

- Toluene was detected in samples from two monitoring wells at concentrations of 0.254J µg/L at MW04-GW03 and 5.72 µg/L at MW04-GW04R. The detected concentration at MW04-GW04R exceeded the NYSDEC action level of 5 µg/L.

- Ethylbenzene was detected in samples from four monitoring wells at concentrations ranging from 0.589J µg/L (SW-07) to 66.1 µg/L (MW04-GW03). Two of the four detected concentrations exceeded the NYSDEC action level of 5 µg/L.

- Xylenes were detected in samples from five monitoring wells with total xylene concentrations ranging from 4 µg/L (SW-07) to 522 µg/L (MW04-GW03). Detected concentrations at three wells exceeded the NYSDEC action level for one or more xylene isomers of 5 µg/L.

Ten additional VOCs were detected above NYSDEC action levels during the June 2015 groundwater sampling event.

- Acetone was detected above the NYSDEC guidance value of 50 µg/L in one monitoring well with a maximum detected concentration (MDC) of 63.3 µg/L (MW04-GW03).

- n-Butylbenzene exceeded the NYSDEC action level of 5 µg/L in two monitoring wells with an MDC of 34.5 µg/L (MW04-GW05).

- sec-Butylbenzene exceeded the NYSDEC action level of 5 µg/L in two monitoring wells with an MDC of 18.5µg/L (MW04-GW05).

- Isopropylbenzene was detected above the NYSDEC action level of 5 µg/L in two monitoring wells with an MDC of 40.8 µg/L (MW04-GW05).

- p-Isopropyltoluene exceeded the NYSDEC action level of 5 µg/L in three monitoring wells with an MDC of 26.6 µg/L (MW04-GW05).

- Naphthalene was detected above the NYSDEC action level of 10 µg/L in two monitoring wells with an MDC of 42 µg/L (MW-04-GW05).

- n-Propylbenzene was detected above the NYSDEC action level of 5 µg/L in two monitoring wells with an MDC of 56.2 µg/L (MW04-GW05).

- 1,1,2,2-Tetrachloroethane was detected above the NYSDEC action level of 5 µg/L in one monitoring well with an MDC of 5.82 µg/L (MW04-GW03).

- 1,2,4-TMB exceeded the NYSDEC action level of 5 µg/L in four monitoring wells with an MDC of 397 µg/L (MW04-GW05).

- 1,3,5-TMB was detected above the NYSDEC action level of 5 µg/L in four monitoring wells with an MDC of 189 µg/L (MW04-GW05).

October 2015 Performance Monitoring Results at IRP Site 4

Groundwater samples from the nine wells were analyzed for full-suite VOCs in the October 2015 event. A total of 15 VOCs were each detected in at least 1 groundwater sample: n-butylbenzene; sec-butylbenzene; tert-butylbenzene; cyclohexane; ethylbenzene isopropylbenzene; p-isopropyltoluene; methylcyclohexane; n-propylbenzene; toluene; 1,2,4-TMB; 1,3,5-TMB; *m,p*-xylene; and *o*-xylene.

The BTEX results for groundwater samples collected in October 2015 are summarized below:

- Benzene was not detected in any samples from the nine monitoring wells.

- Toluene was detected in a sample from one monitoring well at a concentration of 1.25 µg/L (MW04-GW04R). The detected concentration did not exceed the NYSDEC action level of 5 µg/L.

- Ethylbenzene was detected in samples from five monitoring wells at concentrations ranging from 0.314J µg/L (SDW-23AR) to 4.84 µg/L (MW04-GW02). None of the five detected concentrations exceeded the NYSDEC action level of 5 µg/L.

- Xylenes were detected in samples from six monitoring wells with total concentrations ranging from 0.778J µg/L (MW04-GW01) to 37.4 µg/L (MW04-GW04R). Concentrations of one or more xylene isomers exceeded the NYSDEC action level of 5 µg/L in two samples.

Six additional VOCs were detected above the NYSDEC action levels during the October 2015 groundwater sampling event at Site 4.

- sec-Butylbenzene exceeded the NYSDEC action level of 5 µg/L in one monitoring well with an MDC of 7.72 µg/L (MW04-GW01).

- Isopropylbenzene was detected above the NYSDEC action level of 5 µg/L in one monitoring well with an MDC of 6.55 µg/L (MW04-GW01).

- p-Isopropyltoluene exceeded the NYSDEC action level of 5 µg/L in one monitoring well with an MDC of 9.06 µg/L (MW04-GW01).

- n-Propylbenzene was detected above the NYSDEC action level of 5 µg/L in one monitoring well with an MDC of 12 µg/L (MW04-GW01).

- 1,2,4-TMB exceeded the NYSDEC action level of 5 µg/L in five monitoring wells with an MDC of 94.3 µg/L (MW04-GW01).

- 1,3,5-TMB was detected above the NYSDEC action level of 5 µg/L in five monitoring wells with an MDC of 59.7 µg/L (MW04-GW01).

2.2.1 Field Measurements

Field measurements collected at IRP Site 4 from 2008 through the most recent groundwater sampling event in October 2015 are presented in Table 1.

DO

The role of DO in the biosparge treatment process can be summarized as follows:

- Ambient air (approximately 21% oxygen) is actively being injected into biosparge wells at Site 4.

- The injected oxygen dissolves into the groundwater, leading to increased DO.

- The increased DO stimulates an increase in native populations of petroleum hydrocarbon-degrading microbial populations.

- The increased microbial populations result in increased degradative activity (through aerobic respiration).

- The increased degradative activity results in a reduced volume of petroleum contamination as it is converted to carbon dioxide, methane, and water.

However, during the aerobic degradation process, DO concentrations decrease. Therefore, it is difficult to determine simply from a given DO concentration whether degradation is occurring at the corresponding location or if the area from which the reading came is simply outside the radius of influence of the biosparge injection network. Multiple other factors can influence DO concentrations. Therefore, DO is a quantitative indicator of aerobic conditions (required for successful aerobic treatment of petroleum contamination at Site 4) and a qualitative indicator used in conjunction with other metrics to determine remedial progress.

In June 2015, DO concentrations at Site 4 ranged from 4.60 mg/L (MW04-GW01) to 10.2 mg/L (PZ-4), with an average of 7.80 mg/L. DO levels were well above the aerobic threshold of 0.5 mg/L in all sampled wells.

In October 2015, DO concentrations at Site 4 ranged from 3.32 mg/L (MW04-GW01) to 9.96 mg/L (PZ-4), with an average of 7.96 mg/L. DO levels were well above the aerobic threshold of 0.5 mg/L in all sampled wells.

DO values over time for select wells at Site 4 are shown in Figure 3.

ORP

The ORP of groundwater is a qualitative indicator of its tendency to accept or transfer electrons. In general, higher ORP indicates higher oxidizing potential, while lower ORP indicates reducing conditions. Aerobic degradation of petroleum hydrocarbons is typically influenced by, and influences, groundwater ORP. Higher ORP values indicate conditions favorable for aerobic degradation of petroleum hydrocarbons by aerobic respiration; however, it is important to remember that aerobic respiration is likely not the only redox process by which petroleum contamination is degrading. In addition, as reduction occurs, ORP values decrease. Therefore, ORP values are primarily qualitative indicators of oxidating/reducing conditions, and, at IRP Site 4, potential indicators of recent and/or ongoing oxidative processes.

In June 2015, ORP results at Site 4 ranged between -21 mV (SW-07) and 225 mV (SW-06). Oxidizing conditions, represented by positive ORP values, were observed in all wells sampled at Site 4 except SW-07.

In October 2015, ORP results at Site 4 ranged between -74 mV (SW-07) and 312 mV (MW04-GW05). Oxidizing conditions, represented by positive ORP values, were observed in all wells sampled at Site 4 except SW-07. ORP values over time for select wells at Site 4 are shown in Figure 4.

3.0 CONCLUSIONS

The biosparge treatment system injects ambient air into the subsurface to increase DO concentrations in the shallow aquifer and stimulate aerobic biodegradation of the residual contamination. The biosparge treatment system began operating in July 2009. Initially, the system included 50 biosparge points (38 points at Site 4 and 12 points at Site 9) installed in the areas of the baseline groundwater plume where ∑BTEX concentrations exceeded the 1,000-µg/L threshold (Figure 5). In September 2012, an additional 27 biosparge points (24 points at Site 4 and three points at Site 9) and a second air compressor were installed to optimize treatment throughout the source areas and expand treatment to areas between the 1,000- and 5-µg/L ∑BTEX contours. In October 2013 and August 2014, an additional five and three biosparge points, respectively, were installed in areas where ∑BTEX concentrations exceeded the 500-µg/L threshold. In August 2015, three additional biosparge points were installed at Site 4 to increase biosparge system performance in two areas of high residual contaminant concentrations: two points were installed in the vicinity of MW04-GW03 and one in the vicinity of MW04-GW05.

This report presents results of the June and October 2015 quarterly performance monitoring events at IRP Site 4. No sampling was conducted at IRP Site 9, as site wells have demonstrated compliance with cleanup criteria and were granted NFA in November 2015. The June and October 2015 events were the 17th and 18th performance monitoring events, respectively, since initial biosparge system start up in 2008 and the 11th and 12th monitoring events, respectively, subsequent to the September 2012 optimization activities.

3.1 SITE 4

Figure 6 presents the approximate extent of ∑BTEX contamination at IRP Site 4 as of October 2015; no plume contours were drawn based upon the relatively low ∑BTEX concentrations observed; unlike when ∑BTEX concentrations commonly exceeded 1,000 µg/L, currently observed lower ∑BTEX concentrations are not clear indicators of whether one or more individual regulatory criteria has been exceeded. Individual exceedances are better conveyed by the tabular format presented on Figure 2 and in Table 1.

At Site 4, a significant reduction in ∑BTEX concentrations has occurred across the entire groundwater plume since the 2008 baseline sampling, with an overall reduction in ∑BTEX concentrations of 99.5% based on October 2015 sampling results (Table 2). Groundwater sampling results from the June 2015 performance monitoring events indicate continued contaminant reduction in ∑BTEX at all wells except MW04-GW03 and MW04-GW05. After the installation of two new biosparge points in the vicinity of MW04-GW03 and one new biosparge point in the vicinity of MW04-GW05, residual BTEX contaminants at the two wells declined to below NYSDEC action levels during the October 2015 performance monitoring event: ∑BTEX concentrations declined from 588 µg/L to 6 µg/L at MW04-GW03 and from 151 µg/L to non-detect at MW04-GW05. As of October 2015, one or more individual BTEX constituents remained above regulatory criteria at only four of the nine wells sampled, and the maximum observed ∑BTEX concentration of 42 µg/L at MW04-GW04R is a full two orders of magnitude below the 2012 ∑BTEX concentration at original well MW04-GW04. Figure 7 presents ∑BTEX vs time for a subset of Site 4 wells (Figure 7); significant decreases are evident at all wells.

DO readings indicate aerobic and oxidizing conditions were present at all Site 4 wells in October 2015. ORP readings from the same event indicate aerobic and oxidizing conditions at all of the Site 4 wells except SW-07. Increased pH values were observed across the site from the June 2015 to October 2015 sampling events. The pH across the site ranged from 4.15 to 6.93 standard units (S.U.) in October 2015,

with several areas below the optimum range (5 to 7 S.U.) for microbial biodegradation of petroleum contaminants; however, the low pH levels do not appear to be inhibiting ongoing processes.

Biosparge system operations will continue during the next semiannual operating period. Preliminary analytical results from each monitoring event are reviewed by Leidos and system adjustments will be made, as necessary, to maintain continued contaminant degradation in areas of the site where BTEX concentrations remain above regulatory criteria.

Quarterly performance monitoring will continue at Site 4 in accordance with the Final RA-O WP Addendum #3 (ANG 2012b). Results of the upcoming January 2016 and May 2016 sampling events will be presented in the next Semiannual Groundwater Monitoring Report.

3.2 SITE 9

NYSDEC approved NFA at Site 9 on November 12, 2015 (see Appendix D). No additional sampling is planned for IRP Site 9; thus, the site will not be included in future Site 4 semiannual monitoring reports. Well abandonment and air sparge system decommissioning will be conducted at a future date.

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FIGURES

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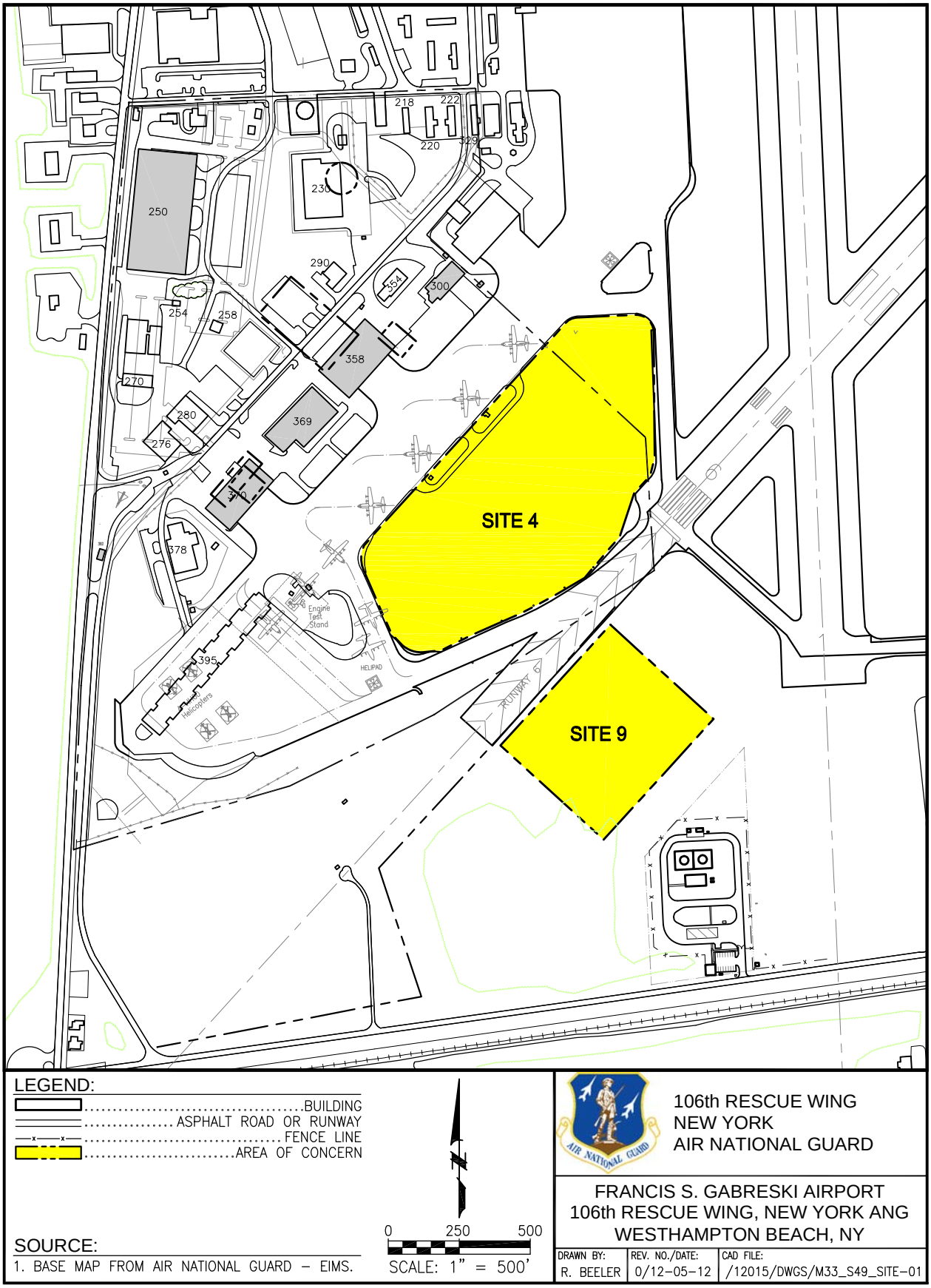


Figure 1. IRP Sites 4 and 9 Location Map

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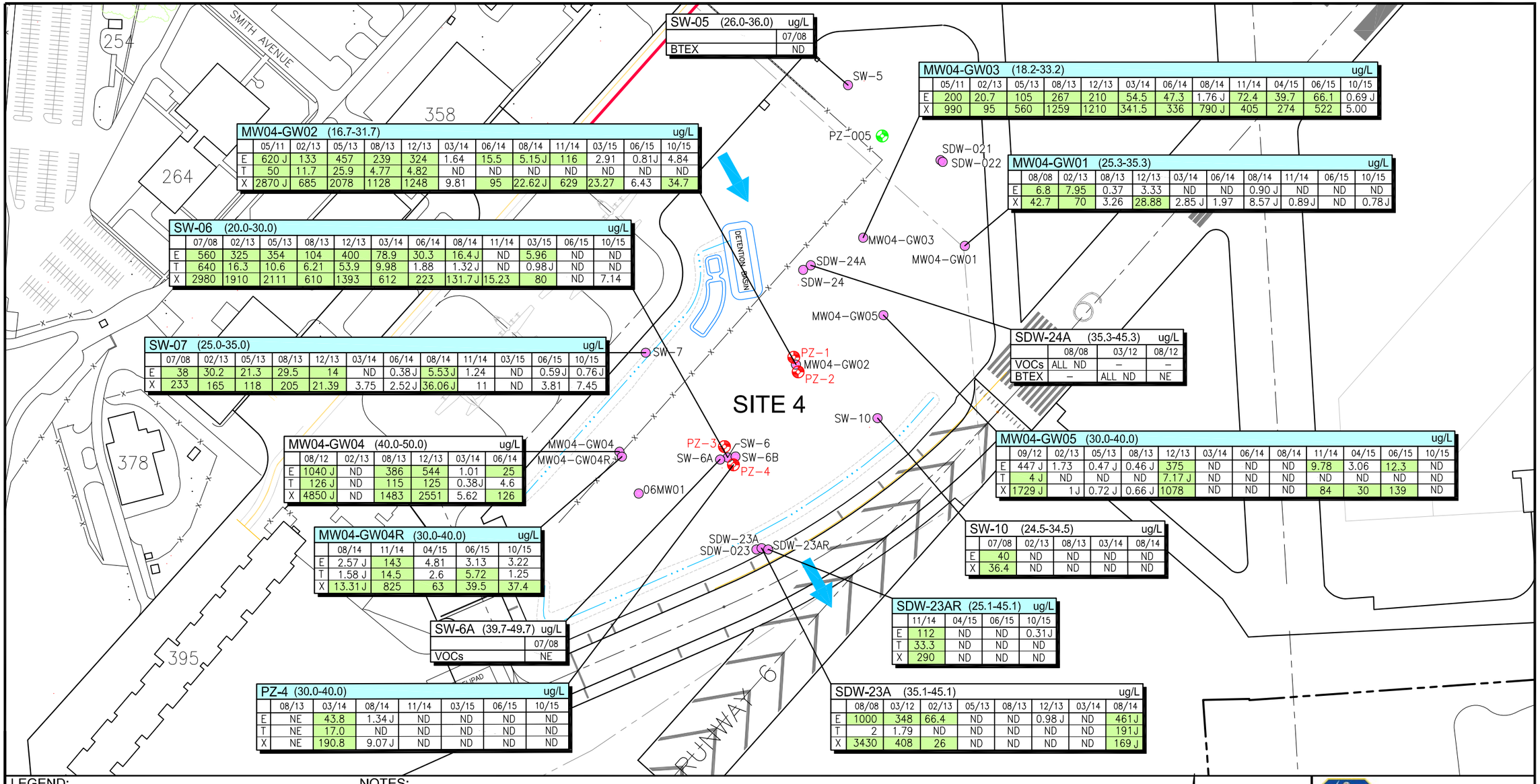


Figure 2. BTEX Constituents Detected Above Criteria per Well, 2008 Through October 2015

Figure 3. DO Concentrations Over Time at Select Site 4 Monitoring Wells

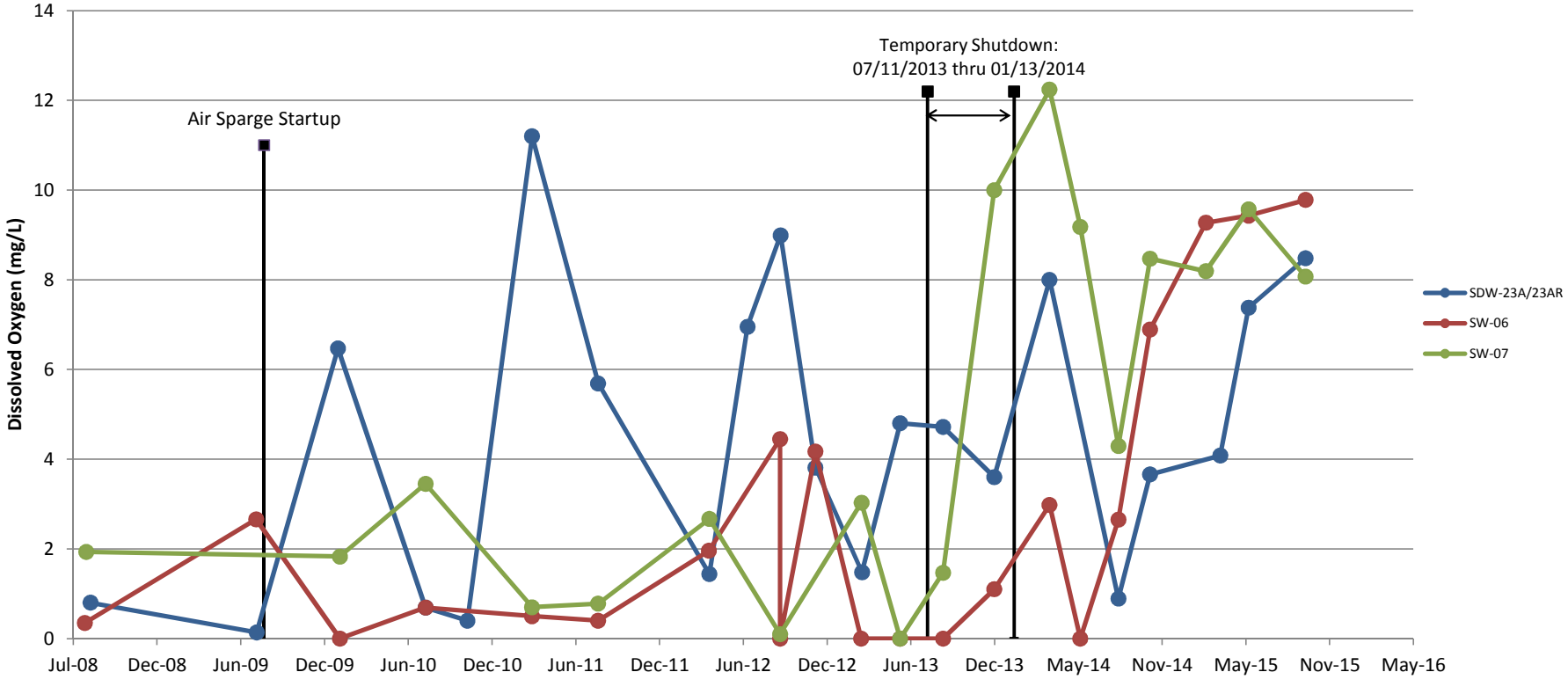
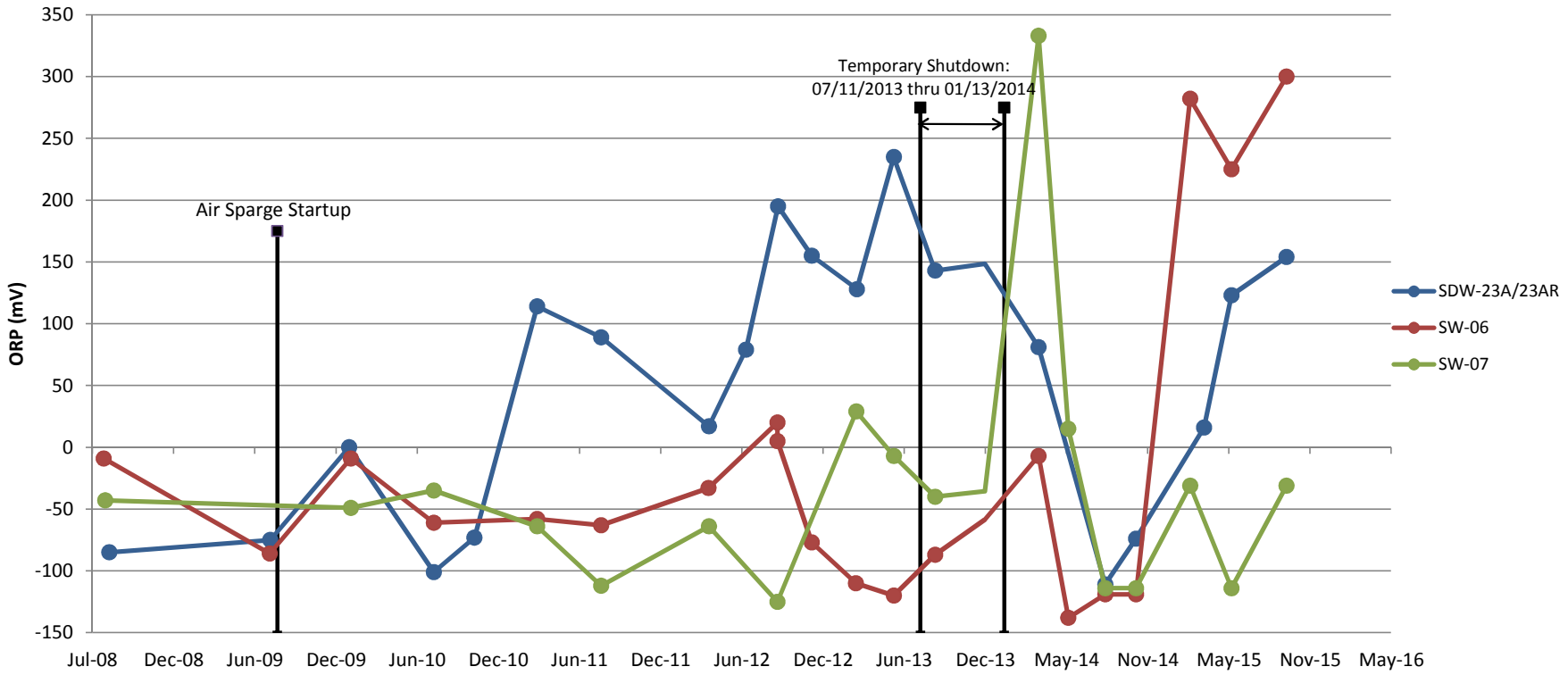


Figure 4. ORP Over Time at Select Site 4 Monitoring Wells



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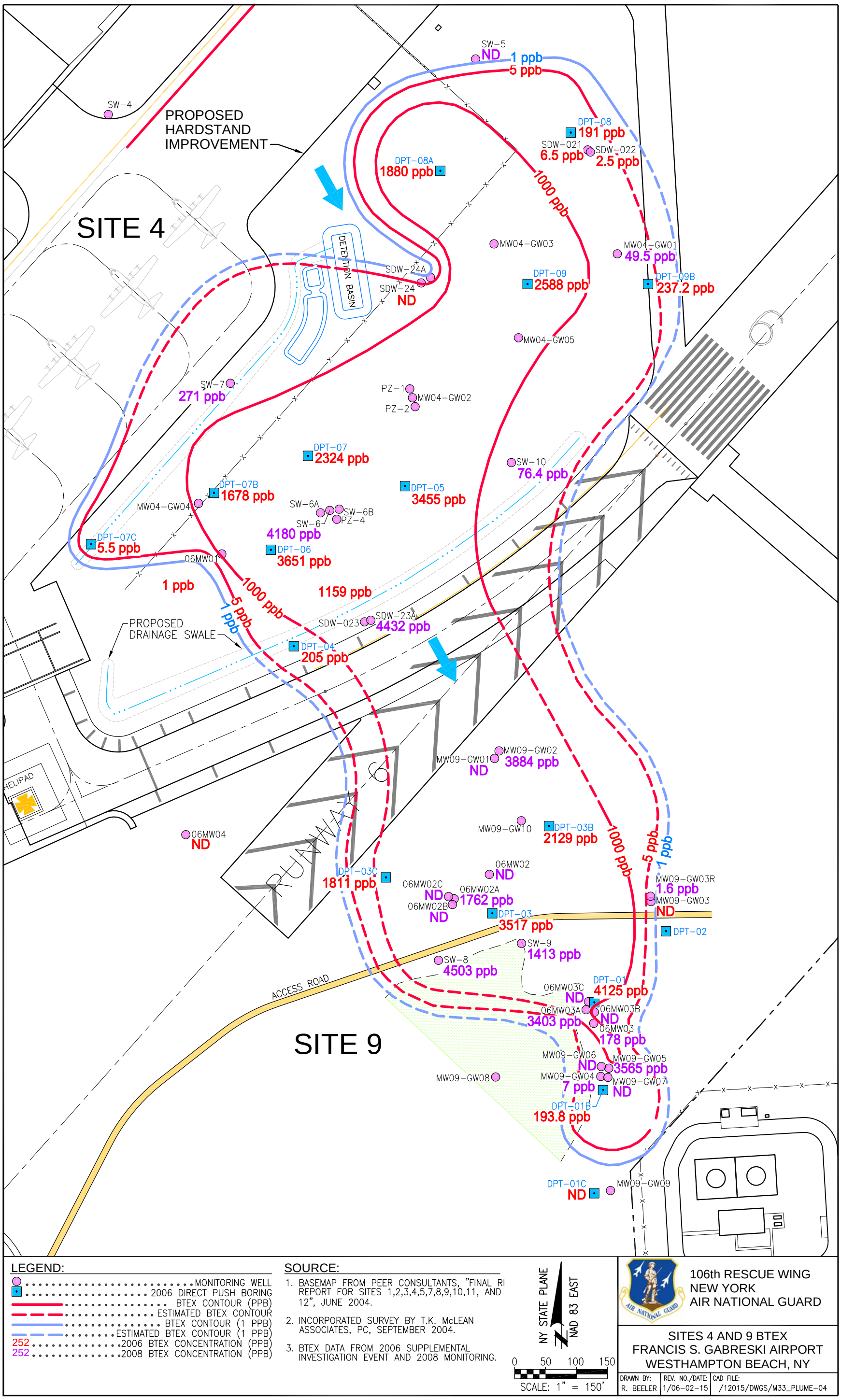


Figure 5. Extent of BTEX Contamination in Groundwater at IRP Sites 4 and 9 - July 2008 (Baseline Condition)

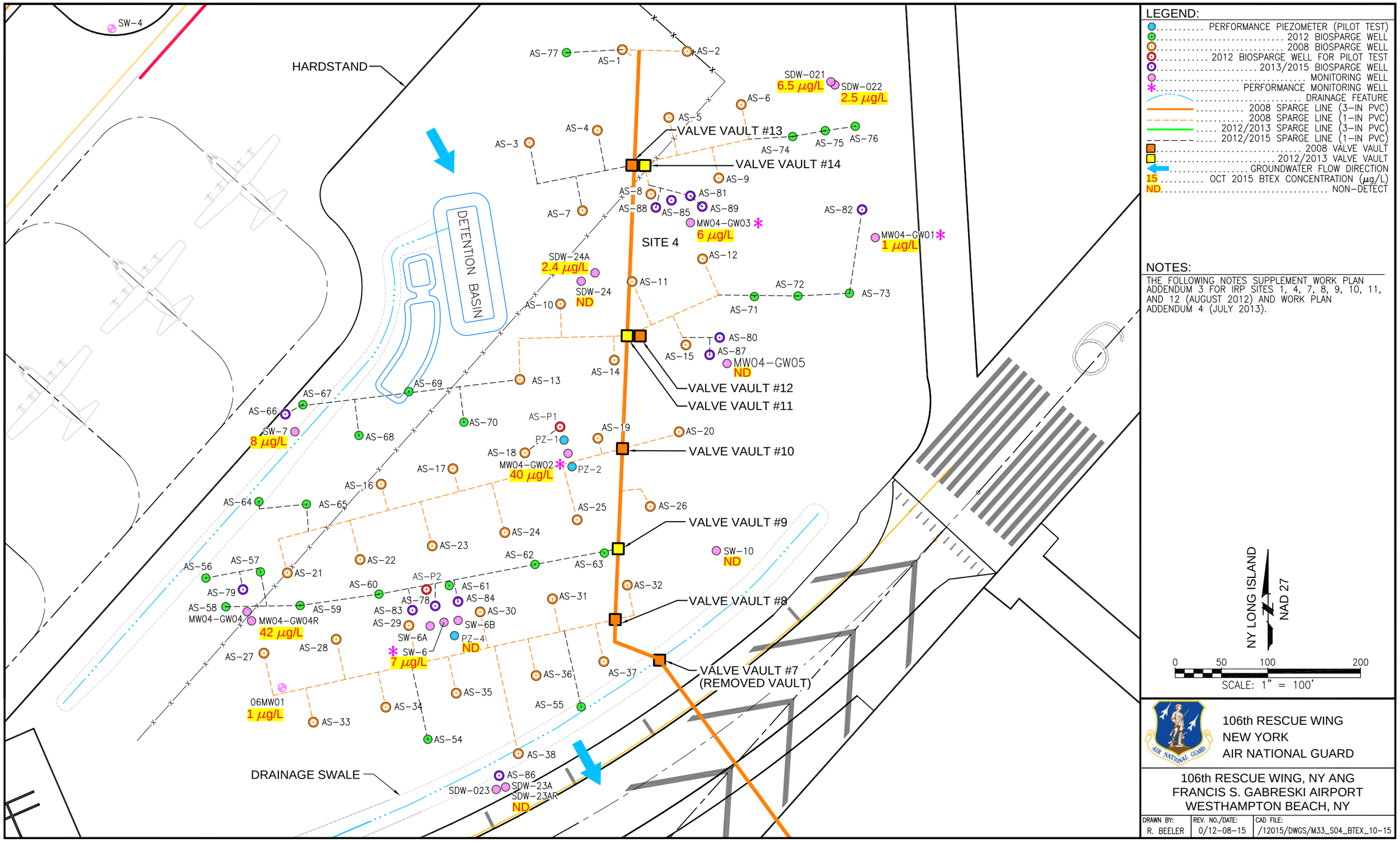
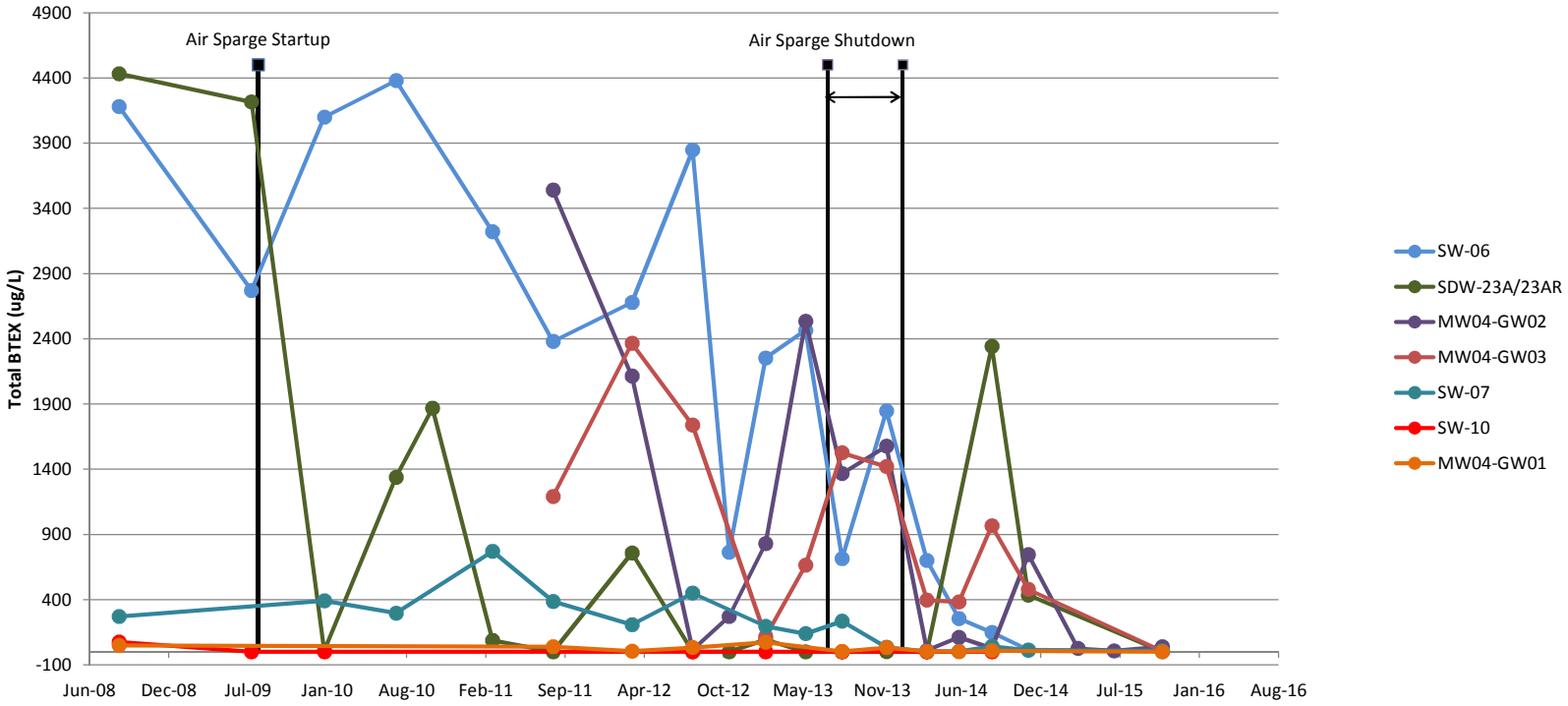


Figure 6. Extent of BTEX Contamination in Groundwater at IRP Site 4 - October 2015

Figure 7. Total BTEX Concentrations Over Time at Select Site 4 Monitoring Wells



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TABLES

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Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				MW04-GW01										
Sample ID				MW04GW0101	MW04GW0101D	MW04GW0102	MW04GW0103	MW04GW0104	MW04GW0105	MW04GW0106	MW04GW0107	MW04GW0108	MW04GW0109	MW04GW0110
Depth (ft)				25.3 - 35.3	25.3 - 35.3	25.3 - 35.3	25.3 - 35.3	25.3 - 35.3	25.3 - 35.3	25.3 - 35.3	25.3 - 35.3	25.3 - 35.3	25.3 - 35.3	25.3 - 35.3
Inside/Outside Biosparge Influence				Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside
Date				08/07/08	08/07/08	08/03/11	03/28/12	08/29/12	02/19/13	08/14/13	12/04/13	03/23/14	06/04/14	08/26/14
Sample Type		NYSDEC[1]	MCL[2]	GR	FD	GR	GR	GR	GR	GR	GR	GR	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile														
Acetone	67-64-01	50		5 U	5 U	NR	NR	NR	10.6 U	5 U	NR	6.81 U	12.4 J	12.2 J
Benzene	71-43-2	1	5	1 U	1 U	0.5 U	0.6 U	0.6 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 R
2-Butanone	78-93-3			5 U	5 U	NR	NR	NR	5 U	5 U	NR	5 U	5 U	5 R
n-Butylbenzene	104-51-8	5		2.9	2.9	NR	NR	NR	15.5	4.4	NR	7.5	3.96	0.5 R
sec-Butylbenzene	135-98-8	5		3.9	3.4	NR	NR	NR	11.8	2.79	NR	5.13	2.44	6.64 J
tert-Butylbenzene	98-06-6	5		1 U	1 U	NR	NR	NR	2.25	.370 J	NR	0.5 U	0.56 J	0.5 R
Carbon disulfide	75-15-0	60		1 U	1 U	NR	NR	NR	0.822 J	1 U	NR	2.19	1 U	1 R
Cyclohexane	110-82-7			26	27	NR	NR	NR	NR	15.9	NR	7.43	7.69	25.5 J
Ethylbenzene	100-41-4	5	700	6.8	5.9	5.3	0.78 J	4.17 J	7.95	0.372 J	3.33	0.5 U	0.5 U	0.904 J
2-Hexanone	591-78-6	50		5 U	5 U	NR	NR	NR	5 U	5 U	NR	5 U	5 U	5 R
Isopropylbenzene	98-82-8	5		9.1	9	NR	NR	NR	43.8	4.76	NR	3.91	3.24	13.3 J
p-Isopropyltoluene	99-87-6	5		13	12	NR	NR	NR	17.1	3.75	NR	4.56	2.54	9.1 J
Methylcyclohexane	108-87-2			89 J	88 J	NR	NR	NR	NR	91	NR	93.7	51.3	127 J
4-Methyl-2-pentanone	108-10-1			5 U	5 U	NR	NR	NR	5 U	5 U	NR	5 U	5 U	5 R
Naphthalene	91-20-3	10		6.3	4.7	NR	NR	NR	NR	1.05	NR	2.21	0.639 J	1.81 J
n-Propylbenzene	103-65-1	5		11	11	NR	NR	NR	60.2	7.19	NR	3.4	2.98	14.6 J
1,1,2,2-Tetrachloroethane	79-34-5	5		1 U	1 U	NR	NR	NR	0.4 U	0.4 U	NR	0.4 U	0.4 U	0.4 R
Toluene	108-88-3	5	1000	1 U	1 U	0.5 U	0.6 U	0.6 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 R
1,2,4-Trimethylbenzene	120-82-1	5		64	64	NR	NR	NR	321	39	NR	30.7	27.6	95.6 J
1,3,5-Trimethylbenzene	108-67-8	5		29	29	NR	NR	NR	129	16.5	NR	30	21.7	62.2 J
m,p-Xylene	179601-23-1	5 ea		38	35	31	4.46	25.2 J	61.6	3.26	27	2.54	1.97	7.83 J
o-Xylene	95-47-6	5		4.7	4.7	3.3	0.51 J	2.58 J	4.6	0.5 U	1.88	0.305 J	0.5 U	0.735 J
Xylenes, Total[3]			10000	42.70	39.70	34.30	4.97 J	27.78 J	66.20	3.26	28.88	2.85 J	1.97	8.57 J
Total BTEX[4]				50	46	40	6	33	74	3	32	3	2	10
Field Parameters														
Conductivity	mS/cm	mS/cm		0.075	0.075	0.069	0.101	0.065	27	17	NM	0.222	0.092	0.092
Dissolved Oxygen	mg/L	mg/L		6.22	6.22	3.38	5.77	0.33	1.48	2.86	2.5	6.34	3	4.46
ORP	mV	mV		-25	-25	-121	-106	-147	-175	-70	-132	227	-15	12
Temperature	°C	°C		17.3	17.3	15	12.23	18.2	9	16.51	12.33	8.82	15.9	20.5
Turbidity	NTU	NTU		10.1	10.1	25	0	5.5	1.8	0	0	0	0	2.9
pH	STD UN	STD UN		6.03	6.03	6.29	6.2	6.24	5.47	5.8	5.74	4.05	4.44	4.25
Water level		(ft AMSL)		13.04	13.04	12.95	13.31	12.15	11.81	12.83	11.55	11.86	13.02	11.85

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				MW04-GW01			MW04-GW02							
Sample ID				MW04GW0111	MW04GW0112	MW04GW0113	MW04-GW0201	MW04-GW0202	MW04-GW0202D	MW04-GW0203	MW04-GW0204	MW04-GW0205	MW04-GW0206	MW04-GW0207
Depth (ft)				25.3 - 35.3	25.3 - 35.3	25.3 - 35.3	16.7 - 31.7	16.7 - 31.7	16.7 - 31.7	16.7 - 31.7	16.7 - 31.7	16.7 - 31.7	16.7 - 31.7	16.7 - 31.7
Inside/Outside Biosparge Influence				Outside	Outside	Outside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside
Date				04/01/15	06/24/15	10/20/15	05/31/11	03/28/12	03/28/12	08/29/12	11/12/12	02/20/13	05/15/13	08/15/13
Sample Type		NYSDEC[1]	MCL[2]	GR	GR	GR	GR	GR	FD	GR	GR	GR	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile														
Acetone	67-64-01	50		18.7 U	10.1	27.8 U	NR	NR	NR	NR	NR	298	NR	101
Benzene	71-43-2	1	5	0.25 U	0.25 U	0.25 U	0.5 U	0.6 U	0.6 U	0.6 U	NR	0.25 U	0.25 U	0.25 U
2-Butanone	78-93-3			5 U	5 U	5 U	NR	NR	NR	NR	NR	49.7 U	NR	5 U
n-Butylbenzene	104-51-8	5		7	4.93	4.26	NR	NR	NR	NR	NR	0.5 U	NR	9.03
sec-Butylbenzene	135-98-8	5		5.21	3.47	7.72	NR	NR	NR	NR	NR	2.72	NR	7.08
tert-Butylbenzene	98-06-6	5		1.18	0.808 J	1.28	NR	NR	NR	NR	NR	0.5 U	NR	2.12
Carbon disulfide	75-15-0	60		1 U	1 U	1 UJ	NR	NR	NR	NR	NR	1 U	NR	0.742 J
Cyclohexane	110-82-7			1.1 J	2 U	2 U	NR	NR	NR	NR	NR	NR	NR	58.6
Ethylbenzene	100-41-4	5	700	0.5 U	0.5 U	0.5 U	620 J	459	464	2.19 J	42.2	133	457	239
2-Hexanone	591-78-6	50		5 U	5 U	5 U	NR	NR	NR	NR	NR	6.67	NR	5 U
Isopropylbenzene	98-82-8	5		6.21	1.71	6.55	NR	NR	NR	NR	NR	18.6	NR	33.9
p-Isopropyltoluene	99-87-6	5		5.91	2.62	9.06	NR	NR	NR	NR	NR	3.88	NR	9.08
Methylcyclohexane	108-87-2			9.04	2.42 J	21.4	NR	NR	NR	NR	NR	NR	NR	95.9
4-Methyl-2-pentanone	108-10-1			5 U	5 U	5 U	NR	NR	NR	NR	NR	5 U	NR	5 U
Naphthalene	91-20-3	10		2.02	1.06	1.61	NR	NR	NR	NR	NR	NR	NR	56.9
n-Propylbenzene	103-65-1	5		8.8	2.78	12	NR	NR	NR	NR	NR	21.1	NR	32.1
1,1,2,2-Tetrachloroethane	79-34-5	5		1.48	0.708 J	0.4 U	NR	NR	NR	NR	NR	0.4 U	NR	0.4 U
Toluene	108-88-3	5	1000	0.5 U	0.5 U	0.5 U	50	17.7	17.7	0.6 U	0.785 J	11.7	25.9	4.77
1,2,4-Trimethylbenzene	120-82-1	5		81.8	20.4	94.3	NR	NR	NR	NR	NR	137	NR	223
1,3,5-Trimethylbenzene	108-67-8	5		57.2	19.7	59.7	NR	NR	NR	NR	NR	58.1	NR	127
m,p-Xylene	179601-23-1	5 ea		0.892 J	1 U	0.778 J	2000 J	1050	1060	7.2 J	157	476	1400	740
o-Xylene	95-47-6	5		0.5 U	0.5 U	0.5 U	870 J	587	594	4.7 J	70.9	209	678	388
Xylenes, Total[3]			10000	0.89 J	ND	0.78 J	2870 J	1637	1654	11.9 J	228	685	2078	1128
Total BTEX[4]				1	ND	1	3540	2114	2136	15	271	830	2535	1367
Field Parameters														
Conductivity	mS/cm	mS/cm		0.087	0.076	0.108	9.6	0.151	0.151	0.072	0.073	0.1	0.102	NM
Dissolved Oxygen	mg/L	mg/L		6.42	4.6	3.32	0.4	1.41	1.41	9.54	8.03	0.89	0	NM
ORP	mV	mV		44	22	27	-38	-101	-101	290	244	-8	-64	NM
Temperature	°C	°C		7.1	23.98	16.3	18.05	12.54	12.54	22.1	17.2	8.27	16.72	NM
Turbidity	NTU	NTU		14.4	40.3	13.1	110	6	6	25.8	0	22.7	28.9	NM
pH	STD UN	STD UN		3.81	4.72	4.15	5.27	5.43	5.43	3.95	4.14	5.11	4.4	NM
Water level		(ft AMSL)		12.84	12.41	11.31	12.91	13.11	13.11	11.85	11.60	11.69	12.73	12.50

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				MW04-GW02								MW04-GW03		
Sample ID				MW04GW0208	MW04GW0209	MW04GW0210	MW04GW0211	MW04GW0212	MW04GW0213	MW04GW0214	MW04GW0215	MW04-GW0301	MW04-GW0302	MW04-GW0303
Depth (ft)				16.7 - 31.7	16.7 - 31.7	16.7 - 31.7	16.7 - 31.7	16.7 - 31.7	16.7 - 31.7	16.7 - 31.7	16.7 - 31.7	18.2 - 33.2	18.2 - 33.2	18.2 - 33.2
Inside/Outside Biosparge Influence				Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside
Date				12/04/13	03/22/14	06/05/14	08/26/14	11/17/14	03/31/15	06/23/15	10/20/15	05/31/11	03/28/12	08/29/12
Sample Type		NYSDEC[1]	MCL[2]	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile														
Acetone	67-64-01	50		NR	9.55 U	15.4	3.99 J	5 UJ	5 U	5 U	16.8 U	NR	NR	NR
Benzene	71-43-2	1	5	0.25 U	0.25 U	0.25 U	0.25 R	0.25 U	0.25 U	0.25 U	0.25 U	0.5 U	0.6 U	0.6 U
2-Butanone	78-93-3			NR	5 U	5 U	5 R	5 UJ	5 U	5 U	5 U	NR	NR	NR
n-Butylbenzene	104-51-8	5		NR	0.679 J	0.796 J	0.5 R	13.9 J	7.7	2.49	0.35 J	NR	NR	NR
sec-Butylbenzene	135-98-8	5		NR	0.41 J	0.444 J	0.5 R	7.97	5.37	1.42	0.597 J	NR	NR	NR
tert-Butylbenzene	98-06-6	5		NR	0.5 U	0.5 U	0.5 R	1.82	1.05	0.5 U	0.5 U	NR	NR	NR
Carbon disulfide	75-15-0	60		NR	1 U	1 U	1 R	1 U	1 U	1 U	1 UJ	NR	NR	NR
Cyclohexane	110-82-7			NR	2 U	3.53 J	1.96 J	16.8	2.53 J	2 U	1.17 J	NR	NR	NR
Ethylbenzene	100-41-4	5	700	324	1.64	15.5	5.15 J	116	2.91	0.812 J	4.84	200	397	332 J
2-Hexanone	591-78-6	50		NR	5 U	5 U	5 R	5 U	5 U	5 U	5 U	NR	NR	NR
Isopropylbenzene	98-82-8	5		NR	0.37 J	2.51	0.931 J	34.8	5.82	0.932 J	1.83	NR	NR	NR
p-Isopropyltoluene	99-87-6	5		NR	0.5 U	0.541 J	0.5 R	10.1	6.19	1.45	0.576 J	NR	NR	NR
Methylcyclohexane	108-87-2			NR	2 U	4.3 J	2.18 J	62.9	33.7	3.77 J	3.4 J	NR	NR	NR
4-Methyl-2-pentanone	108-10-1			NR	5 U	5 U	5 R	5 U	5 U	5 U	5 U	NR	NR	NR
Naphthalene	91-20-3	10		NR	0.312 J	2.28	0.5 J	37.4	3.56	0.728 J	0.556 J	NR	NR	NR
n-Propylbenzene	103-65-1	5		NR	0.274 J	2.65	0.893 J	42.7	8.27	1.4	2.03	NR	NR	NR
1,1,2,2-Tetrachloroethane	79-34-5	5		NR	0.4 U	0.4 U	0.4 R	0.4 U	1.82	0.925 J	0.4 U	NR	NR	NR
Toluene	108-88-3	5	1000	4.82	0.5 U	0.5 U	0.5 R	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.73 J	0.75 J
1,2,4-Trimethylbenzene	120-82-1	5		NR	3.09	20.1	5.25 J	220	46.4	4.82	12.6	NR	NR	NR
1,3,5-Trimethylbenzene	108-67-8	5		NR	4.13	9.72	2.8 J	101	27.2	4.64	6.85	NR	NR	NR
m,p-Xylene	179601-23-1	5 ea		842	6.2	65.8	14.8 J	445	16	4.16	23.4	750	1390	1020 J
o-Xylene	95-47-6	5		406	3.61	29.2	7.82 J	184	7.27	2.27	11.3	240	577	385 J
Xylenes, Total[3]			10000	1248	9.81	95.00	22.62 J	629	23.27	6.43	34.70	990	1967	1405 J
Total BTEX[4]				1577	11	111	29	745	26	7	40	1190	2365	1738
Field Parameters														
Conductivity	mS/cm	mS/cm		NM	0.125	0.065	0.062	0.063	0.081	0.052	0.042	11.4	0.05	0.65
Dissolved Oxygen	mg/L	mg/L		4.5	9	7.32	8.46	7.43	8.79	9.77	6.76	3.2	1.4	2.2
ORP	mV	mV		-31	297	-28	2	-4	121	117	30	117	48	-99
Temperature	°C	°C		13.87	12.02	16.8	19.9	14.9	7.8	21.94	17.9	18.1	14.2	27.6
Turbidity	NTU	NTU		8	0	10.7	19.4	4.7	28.6	12	13.4	47	9.9	37.8
pH	STD UN	STD UN		5.7	4.54	4.83	5.1	4.80	3.99	4.15	4.97	4.46	6.01	5.48
Water level		(ft AMSL)		11.54	11.88	12.78	11.88	10.39	12.70	12.18	11.09	13.22	13.42	12.16

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				MW04-GW03										
Sample ID				MW04-GW0304	MW04-GW0304D	MW04-GW0305	MW04-GW0306	MW04GW0307	MW04GW0308	MW04GW0309	MW04GW0310	MW04GW0311	MW04GW0312	MW04GW0313
Depth (ft)				18.2 - 33.2	18.2 - 33.2	18.2 - 33.2	18.2 - 33.2	18.2 - 33.2	18.2 - 33.2	18.2 - 33.2	18.2 - 33.2	18.2 - 33.2	18.2 - 33.2	18.2 - 33.2
Inside/Outside Biosparge Influence				Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside
Date				02/19/13	02/19/13	05/14/13	08/14/13	12/03/13	03/22/14	06/04/14	08/26/14	11/17/14	04/01/15	06/23/15
Sample Type		NYSDEC[1]	MCL[2]	GR	FD	GR	GR	GR	GR	GR	GR	GR	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile														
Acetone	67-64-01	50		23.8 U	24.7 U	NR	444	NR	220	46.3 J	210 J	5 UJ	159	63.3
Benzene	71-43-2	1	5	0.25 U	0.25 U	0.25 U	0.25 U	2.5 U	0.5 U	0.25 U	0.25 R	0.25 U	0.25 U	0.25 U
2-Butanone	78-93-3			5 U	5 U	NR	5 U	NR	35.4	12.9	25.8 J	5 UJ	37.7	18.8
n-Butylbenzene	104-51-8	5		0.5 U	0.5 U	NR	11.5	NR	20.4	12.7	0.5 R	18 J	12.7	11.3
sec-Butylbenzene	135-98-8	5		2.73	2.9	NR	9.32	NR	15.4	10.7	7.76 J	12.6	11	9.47
tert-Butylbenzene	98-06-6	5		0.5 U	0.5 U	NR	.898 J	NR	1 U	0.814 J	0.5 R	0.877 J	0.743 J	0.667 J
Carbon disulfide	75-15-0	60		1 U	1 U	NR	0.508 J	NR	2 U	1 U	1 R	1 U	1 U	1 U
Cyclohexane	110-82-7			NR	NR	NR	91.2	NR	11.1	8.59	23.3 J	18.8	8.71	10.2
Ethylbenzene	100-41-4	5	700	20.7	21.6	105	267	210	54.5	47.3	176 J	74.2	39.7	66.1
2-Hexanone	591-78-6	50		5 U	5 U	NR	5 U	NR	10 U	5 U	5 R	5 U	11	5 U
Isopropylbenzene	98-82-8	5		6.49	6.77	NR	64.6	NR	32.4	20.4	31 J	34.9	18.8	20
p-Isopropyltoluene	99-87-6	5		3.24	3.44	NR	10.3	NR	15.4	9.15	6.23 J	12.7	9.83	7.84
Methylcyclohexane	108-87-2			NR	NR	NR	116	NR	53.7	29.6	26.6 J	57.9	40.5	32.9
4-Methyl-2-pentanone	108-10-1			5 U	5 U	NR	5 U	NR	10 U	5 U	5 R	5 U	4.34 J	5 U
Naphthalene	91-20-3	10		NR	NR	NR	58.1	NR	15.5	9.76	29.2 J	20.3	14.9	22.9
n-Propylbenzene	103-65-1	5		8.4	8.72	NR	62.2	NR	37.2	18.7	26.8 J	44.2	19.7	17.3
1,1,2,2-Tetrachloroethane	79-34-5	5		0.4 U	0.4 U	NR	0.4 U	NR	0.8 U	0.4 U	0.4 R	0.4 U	0.4 U	5.82
Toluene	108-88-3	5	1000	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	0.5 U	0.5 R	0.5 U	0.5 U	0.254 J
1,2,4-Trimethylbenzene	120-82-1	5		42.7	44.8	NR	352	NR	225	116	165 J	198	121	149
1,3,5-Trimethylbenzene	108-67-8	5		15.1	15.7	NR	124	NR	102	63	73.1 J	83.7	61.9	68.3
m,p-Xylene	179601-23-1	5 ea		61.3	63.5	378	867	934	242	215	507 J	301	184	348
o-Xylene	95-47-6	5		33.7	35.3	182	392	276	99.5	121	283 J	104	89.5	174
Xylenes, Total[3]			10000	95.00	98.80	560	1259	1210	342	336	790 J	405	274	522
Total BTEX[4]				116	120	665	1526	1420	396	383	967	479	313	588
Field Parameters														
Conductivity	mS/cm	mS/cm		0.09	0.09	0.069	15.4	NM	0.102	0.07	0.055	0.066	0.050	0.086
Dissolved Oxygen	mg/L	mg/L		2.5	2.5	0	0.72	2.1	5.22	2.54	5.04	7.70	4.99	5.62
ORP	mV	mV		-14	-14	-29	-135	NM	225	-48	-67	157	60	54
Temperature	°C	°C		9.88	9.88	16.27	24.81	12.94	13.05	18.7	23.6	14.8	12.8	21.46
Turbidity	NTU	NTU		11.1	11.1	15.3	0.7	8	0.8	27.4	11.6	5.3	68.8	45.3
pH	STD UN	STD UN		5.98	5.98	4.61	5.73	5.46	4.87	4.74	5.2	5.41	4.07	4.15
Water level		(ft AMSL)		11.93	11.93	13.03	12.87	11.76	17.21	13.08	11.86	10.43	13.03	12.98

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				MW04-GW03	MW04-GW04							MW04-GW04R		
Sample ID				MW04GW0314	MW04-GW0401	MW04-GW0402	MW04-GW0403	MW04-GW0404	MW04GW0405	MW04GW0406	MW04GW0407	MW04GW04R01	MW04GW04R02	MW04GW04R03
Depth (ft)				18.2 - 33.2	40.0 - 50.0	40.0 - 50.0	40.0 - 50.0	40.0 - 50.0	40.0 - 50.0	40.0 - 50.0	40.0 - 50.0	30.0 - 40.0	30.0 - 40.0	30.0 - 40.0
Inside/Outside Biosparge Influence				Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside
Date				10/20/15	08/29/12	11/13/12	02/19/13	08/14/13	12/04/13	03/21/14	06/04/14	08/27/14	11/17/14	04/01/15
Sample Type		NYSDEC[1]	MCL[2]	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile														
Acetone	67-64-01	50		5 U	NR	NR	5 U	723	NR	5 U	55.1 J	9.55 J	5 UJ	49.6 U
Benzene	71-43-2	1	5	0.25 U	0.6 U	1 U	0.25 U	0.25 U	2.5 U	0.25 U	0.25 U	0.25 R	0.25 U	0.25 U
2-Butanone	78-93-3			5 U	NR	NR	5 U	50 U	NR	5 U	9.12	5 R	5 UJ	15.4
n-Butylbenzene	104-51-8	5		0.444 J	NR	NR	0.5 U	8.48	NR	0.5 U	0.5 U	0.5 R	43.7 J	2.54
sec-Butylbenzene	135-98-8	5		1.8	NR	NR	0.5 U	3.9 J	NR	0.5 U	0.5 U	0.5 R	19.1	1.77
tert-Butylbenzene	98-06-6	5		0.5 U	NR	NR	0.5 U	5 U	NR	0.5 U	0.5 U	0.5 R	2.57	0.301 J
Carbon disulfide	75-15-0	60		1 UJ	NR	NR	1 U	0.708 J	NR	1 U	1 U	1 R	1 U	1 U
Cyclohexane	110-82-7			2 U	NR	NR	NR	85.2	NR	2 U	4.52 J	1.19 J	1.44 J	3.43 J
Ethylbenzene	100-41-4	5	700	0.693 J	1040 J	69.5	0.5 U	386	544	1.01	25	2.57 J	143	4.81
2-Hexanone	591-78-6	50		5 U	NR	NR	5 U	12.6	NR	5 U	3.91 J	5 R	5 U	2.61 J
Isopropylbenzene	98-82-8	5		0.674 J	NR	NR	0.5 U	24.4	NR	0.5 U	1.84	0.742 J	52.5	3.62
p-Isopropyltoluene	99-87-6	5		1.08	NR	NR	0.5 U	4.97	NR	0.5 U	0.5 U	0.5 R	20.9	1.62
Methylcyclohexane	108-87-2			3.31 J	NR	NR	NR	117	NR	2 U	2 J	1.62 J	11.8	11.7
4-Methyl-2-pentanone	108-10-1			5 U	NR	NR	5 U	10.4	NR	5 U	5 U	5 R	5 U	15.6
Naphthalene	91-20-3	10		0.4 U	NR	NR	NR	75.4	NR	0.475 J	3.55	0.69 J	39.6	1.7
n-Propylbenzene	103-65-1	5		0.448 J	NR	NR	0.25 U	36.5	NR	0.252 J	1.26	0.64 J	74.5	4.3
1,1,2,2-Tetrachloroethane	79-34-5	5		0.4 U	NR	NR	0.4 U	0.4 U	NR	0.4 U	0.4 U	0.4 R	0.4 U	0.4 U
Toluene	108-88-3	5	1000	0.5 U	126 J	38.7	0.5 U	115	125	0.386 J	4.6	1.58 J	14.5	2.6
1,2,4-Trimethylbenzene	120-82-1	5		1.82	NR	NR	0.5 U	216	NR	1.81	9.91	2.32 J	379	24.9
1,3,5-Trimethylbenzene	108-67-8	5		3.48	NR	NR	0.5 U	77.7	NR	0.63 J	3.84	1.99 J	170	15.5
m,p-Xylene	179601-23-1	5 ea		3.14	3650 J	231	1 U	942	751	4.06	84.6	7.26 J	527	39.5
o-Xylene	95-47-6	5		1.86	1200 J	101	0.5 U	541	1800	1.56	41.2	6.05 J	298	23.5
Xylenes, Total[3]			10000	5.00	4850 J	332	ND	1483	2551	5.62	126	13.31 J	825	63.0
Total BTEX[4]				6	6017	440	3	1869	3095	7	155	17	983	70
Field Parameters														
Conductivity	mS/cm	mS/cm		0.081	0.98	0.077	0.3	12.8	NM	0.261	0.136	0.131	0.138	0.132
Dissolved Oxygen	mg/L	mg/L		9.01	1	5.99	11.36	0	2.9	12.57	7.89	7.65	8.98	8.79
ORP	mV	mV		253	-96	57	260	-116	NM	440	-51	98	204	69
Temperature	°C	°C		18.4	23.3	13.8	9.5	18.88	12.77	9.14	18.1	22.9	13.9	12.4
Turbidity	NTU	NTU		0	47.2	10.4	2.5	142	97	35.1	30.1	6.4	11.7	23.3
pH	STD UN	STD UN		4.31	5.74	5.34	5.04	5.33	5.8	3.77	4.2	5.9	5.5	5.13
Water level		(ft AMSL)		11.43	11.78	11.33	15.06	12.49	11.32	7.29	12.76	11.47	9.89	12.73

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				MW04-GW04R		MW04-GW05							
Sample ID				MW04GW04R04	MW04GW04R05	MW04-GW0501	MW04-GW0502	MW04-GW0503	MW04-GW0503D	MW04-GW0504	MW04GW0505	MW04GW0506	MW04GW0507
Depth (ft)				30.0 - 40.0	30.0 - 40.0	30.0-40.0	30.0-40.0	30.0-40.0	30.0-40.0	30.0-40.0	30.0-40.0	30.0-40.0	30.0-40.0
Inside/Outside Biosparge Influence				Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside
Date				06/23/15	10/20/15	09/14/12	02/20/13	05/14/13	05/14/13	08/15/13	12/03/13	03/22/14	06/04/14
Sample Type		NYSDEC[1]	MCL[2]	GR	GR	GR	GR	GR	FD	GR	GR	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile													
Acetone	67-64-01	50		27	5 U	5 J	13.3 U	NR	NR	1690	NR	5 U	5 UJ
Benzene	71-43-2	1	5	0.25 U	0.25 U	0.6 J	0.25 U	0.25 U	0.25 U	0.25 U	2.5 U	0.25 U	0.25 U
2-Butanone	78-93-3			7.8	5 U	4 J	5.59 U	NR	NR	377	NR	5 U	5 U
n-Butylbenzene	104-51-8	5		1.25	0.5 U	11.9 J	0.5 U	NR	NR	3.43 J	NR	0.5 U	0.5 U
sec-Butylbenzene	135-98-8	5		0.829 J	0.467 J	15.2 J	0.26 J	NR	NR	3.19	NR	0.5 U	0.5 U
tert-Butylbenzene	98-06-6	5		0.5 U	0.5 U	0.6 J	0.5 U	NR	NR	.705 J	NR	0.5 U	0.5 U
Carbon disulfide	75-15-0	60		1 U	1 UJ	0.6 J	1 U	NR	NR	1 U	NR	1 U	1 U
Cyclohexane	110-82-7			1.41 J	2 U	NR	NR	NR	NR	31.6	NR	2 U	2 U
Ethylbenzene	100-41-4	5	700	3.13	3.22	477 J	1.73	0.474 J	0.455 J	130	375	0.5 U	0.5 U
2-Hexanone	591-78-6	50		5.58	5 U	4.4 J	4.4 J	NR	NR	24.5	NR	5 U	5 U
Isopropylbenzene	98-82-8	5		1.28	1.28	97.2 J	0.554 J	NR	NR	24.9	NR	0.5 U	0.5 U
p-Isopropyltoluene	99-87-6	5		0.612 J	0.339 J	14 J	0.368 J	NR	NR	4.15	NR	0.5 U	0.5 U
Methylcyclohexane	108-87-2			4.01 J	2.61 J	NR	NR	NR	NR	24 J	NR	2 U	2 U
4-Methyl-2-pentanone	108-10-1			7.28	5 U	3 J	5 U	NR	NR	18.2	NR	5 U	5 U
Naphthalene	91-20-3	10		0.749 J	0.525 J	NR	NR	NR	NR	29.8	NR	0.4 U	0.4 U
n-Propylbenzene	103-65-1	5		1.11	1.33	112 J	0.65 J	NR	NR	20.8	NR	0.25 U	0.25 U
1,1,2,2-Tetrachloroethane	79-34-5	5		0.624 J	0.4 U	0.6 J	0.4 U	NR	NR	0.4 U	NR	0.4 U	0.4 U
Toluene	108-88-3	5	1000	5.72	1.25	4 J	0.5 U	0.5 U	0.5 U	1.42	7.17 J	0.5 U	0.5 U
1,2,4-Trimethylbenzene	120-82-1	5		8.68	8.5	543 J	1.84	NR	NR	155	NR	0.313 J	0.5 U
1,3,5-Trimethylbenzene	108-67-8	5		6.42	5.49	166 J	0.724 J	NR	NR	49.7	NR	0.5 U	0.5 U
m,p-Xylene	179601-23-1	5 ea		23.8	22.5	1180 J	0.829 J	0.715 J	0.662 J	443	684	1 U	1 U
o-Xylene	95-47-6	5		15.7	14.9	549 J	0.5 U	0.5 U	0.5 U	223	394	0.5 U	0.5 U
Xylenes, Total[3]			10000	39.50	37	1729 J	0.83 J	0.71 J	0.66 J	666	1078	ND	ND
Total BTEX[4]				48	42	2210	3	1	1	796	1460	ND	ND
Field Parameters													
Conductivity	mS/cm	mS/cm		0.157	0.167	8.2	0.08	0.095	0.095	16.2	NM	0.251	0.189
Dissolved Oxygen	mg/L	mg/L		6.19	9.46	6.67	4.21	0	0	0.59	2.2	8.76	5.89
ORP	mV	mV		120	171	NM	161	47	47	-130	-1567	407	330
Temperature	°C	°C		21.43	17.2	16.1	8.62	14.57	14.57	19.34	14.52	11.27	20.4
Turbidity	NTU	NTU		19.98	7.2	270	28.5	12.3	12.3	10.1	33	0	14.9
pH	STD UN	STD UN		4.52	5.68	5.89	5.48	3.95	3.95	5.51	5.61	3.9	4.04
Water level		(ft AMSL)		12.16	11.03	NM	25.51	12.72	12.72	12.67	11.34	12.01	12.83

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				MW04-GW05					PZ-4				
Sample ID				MW04GW0508	MW04GW0509	MW04GW0510	MW04GW0511	MW04GW0512	PZ-402	PZ403	PZ404	PZ405	PZ406
Depth (ft)				30.0-40.0	30.0-40.0	30.0-40.0	30.0-40.0	30.0-40.0	30.0-40.0	30.0-40.0	30.0-40.0	30.0-40.0	30.0-40.0
Inside/Outside Biosparge Influence				Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside
Date				08/27/14	11/17/14	04/01/15	06/24/15	10/21/15	08/15/13	03/21/14	08/25/14	11/17/14	03/31/15
Sample Type		NYSDEC[1]	MCL[2]	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile													
Acetone	67-64-01	50		5 R	5 UJ	5 U	12.4	5 U	5 U	19.1 U	8.22 J	5 UJ	5 U
Benzene	71-43-2	1	5	0.25 R	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 R	0.25 U	0.25 U
2-Butanone	78-93-3			5 R	5 UJ	5 U	7.14	5 U	5 U	5 U	2.73 J	5 UJ	5 U
n-Butylbenzene	104-51-8	5		0.5 R	20.7 J	10.5	34.5	0.5 U	1.1	1.46	0.5 R	0.5 U	0.5 U
sec-Butylbenzene	135-98-8	5		0.5 R	11.8	7.05	18.5	0.5 U	0.808 J	1.15	0.5 R	0.5 U	0.5 U
tert-Butylbenzene	98-06-6	5		0.5 R	1.72	0.953 J	2.95	0.5 U	5 U	0.327 J	0.5 R	0.5 U	0.5 U
Carbon disulfide	75-15-0	60		1 R	1 U	1 U	1 U	1 UJ	1 U	1 U	1 R	1 U	1 U
Cyclohexane	110-82-7			2 R	1.06 J	2 U	1.57 J	2 U	2.09 J	16.7	2 R	2 U	2 U
Ethylbenzene	100-41-4	5	700	0.5 R	9.78	3.06	12.3	0.5 U	2.41	43.8	1.34 J	0.5 U	0.5 U
2-Hexanone	591-78-6	50		5 R	5 U	5 U	21.4	5 U	5 U	5 U	5 R	5 U	5 U
Isopropylbenzene	98-82-8	5		0.5 R	25.2	10.1	40.8	0.5 U	0.882 J	5.61	0.295 J	0.5 U	0.5 U
p-Isopropyltoluene	99-87-6	5		0.5 R	15.3	9.37	26.6	0.5 U	0.679 J	1.44	0.5 R	0.5 U	0.5 U
Methylcyclohexane	108-87-2			2 R	14.1	4.68 J	3.96 J	2 U	11.3	15.1	2.13 J	2 U	2 U
4-Methyl-2-pentanone	108-10-1			5 R	5 U	5 U	5 U	5 U	5 U	5 U	5 R	5 U	5 U
Naphthalene	91-20-3	10		0.4 R	17.3	7.41	42	0.4 U	0.934 J	11.7	0.366 J	0.4 U	0.4 U
n-Propylbenzene	103-65-1	5		0.25 R	35.6	14.8	56.2	0.25 U	0.621 J	7.08	0.253 J	0.25 U	0.25 U
1,1,2,2-Tetrachloroethane	79-34-5	5		0.4 R	0.4 U	0.4 U	1.9	0.4 U	0.4 U	0.4 U	0.4 R	0.4 U	0.4 U
Toluene	108-88-3	5	1000	0.5 R	0.5 U	0.5 U	0.5 U	0.5 U	0.399 J	17	0.5 R	0.5 U	0.5 U
1,2,4-Trimethylbenzene	120-82-1	5		0.5 R	199	96.7	397	0.5 U	3.8	43.1	1.05 J	0.5 U	0.5 U
1,3,5-Trimethylbenzene	108-67-8	5		0.5 R	95.1	47.7	189	0.5 U	3.18	17.3	0.966 J	0.5 U	0.5 U
m,p-Xylene	179601-23-1	5 ea		1 R	70.8	24.5	110	1 U	11.5	143	6.25 J	1 U	1 U
o-Xylene	95-47-6	5		0.5 R	13.5	5.07	28.8	0.5 U	7.92	47.8	2.82 J	0.5 U	0.5 U
Xylenes, Total[3]			10000	2 R	84.30	29.57	139	ND	19.42	191	9.07 J	ND	ND
Total BTEX[4]				3	94	33	151	ND	22	252	11	ND	ND
Field Parameters													
Conductivity	mS/cm	mS/cm		0.131	0.106	0.107	0.092	0.096	14.5	0.171	0.133	0.166	0.115
Dissolved Oxygen	mg/L	mg/L		8.08	7.03	9.66	7.48	6.84	0.14	3.6	5.96	7.97	10.72
ORP	mV	mV		237	256	230	188	312	-8	33	-70	123	94
Temperature	°C	°C		22.6	15.4	10.7	21.3	19.8	21.24	12.1	19.7	15.2	11.7
Turbidity	NTU	NTU		6.1	0	14.0	40.9	6.8	33.9	63	61.5	43.5	47.9
pH	STD UN	STD UN		4.07	4.22	3.67	3.98	4.40	4.78	5.42	5.93	6.59	6.18
Water level		(ft AMSL)		11.56	10.03	12.45	11.46	11.08	NA	NA	NA	NA	NA

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				PZ-4		SDW-23A									
Sample ID				PZ407	PZ408	SDW-23A03	SDW-23A04	SDW-23A05	SDW23A06	SDW-23A07	SDW-23A08	SDW-23A09	SDW-23A10	SDW-23A11	SDW-23A12
Depth (ft)				30.0-40.0	30.0-40.0	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1
Inside/Outside Biosparge Influence				Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside
Date				06/23/15	10/20/15	01/21/10	07/28/10	10/26/10	03/14/11	08/03/11	03/29/12	06/19/12	08/29/12	11/12/12	02/20/13
Sample Type		NYSDEC[1]	MCL[2]	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile															
Acetone	67-64-01	50		5 U	5 U	5 U	5 UJ	NR	NR	NR	NR	NR	NR	NR	5 U
Benzene	71-43-2	1	5	0.25 U	0.25 U	1 U	1 UJ	0.5 U	0.5 U	0.5 U	0.6 U	0.6 U	0.6 U	1 U	0.25 U
2-Butanone	78-93-3			5 U	5 U	5 U	5 UJ	NR	NR	NR	NR	NR	NR	NR	5 U
n-Butylbenzene	104-51-8	5		0.5 U	0.5 U	1 U	1 UJ	NR	NR	NR	NR	NR	NR	NR	0.5 U
sec-Butylbenzene	135-98-8	5		0.5 U	0.5 U	1 U	13 J	NR	NR	NR	NR	NR	NR	NR	4.11
tert-Butylbenzene	98-06-6	5		0.5 U	0.5 U	1 U	2.4 J	NR	NR	NR	NR	NR	NR	NR	1.3
Carbon disulfide	75-15-0	60		1 U	1 UJ	1 U	1 UJ	NR	NR	NR	NR	NR	NR	NR	1 U
Cyclohexane	110-82-7			2 U	2 U	1 U	51	NR	NR	NR	NR	NR	NR	NR	NR
Ethylbenzene	100-41-4	5	700	0.5 U	0.5 U	2.2	510	500	57	0.5 U	348	2.1 J	0.6 U	0.25 U	66.4
2-Hexanone	591-78-6	50		5 U	5 U	5 U	5 UJ	NR	NR	NR	NR	NR	NR	NR	5 U
Isopropylbenzene	98-82-8	5		0.5 U	0.5 U	1 U	91 J	NR	NR	NR	NR	NR	NR	NR	25.9
p-Isopropyltoluene	99-87-6	5		0.5 U	0.5 U	1 U	14 J	NR	NR	NR	NR	NR	NR	NR	1.56
Methylcyclohexane	108-87-2			2 U	2 U	1 U	38	NR	NR	NR	NR	NR	NR	NR	NR
4-Methyl-2-pentanone	108-10-1			5 U	5 U	5 U	5 UJ	NR	NR	NR	NR	NR	NR		5 U
Naphthalene	91-20-3	10		0.4 U	0.4 U	1.6	220	NR	NR	NR	NR	NR	NR	NR	NR
n-Propylbenzene	103-65-1	5		0.25 U	0.25 U	1 U	56	NR	NR	NR	NR	NR	NR	NR	22.4
1,1,2,2-Tetrachloroethane	79-34-5	5		0.4 U	0.4 U	1 U	1 UJ	NR	NR	NR	NR	NR	NR	NR	0.4 U
Toluene	108-88-3	5	1000	0.5 U	0.5 U	1 U	1 UJ	0.82 J	0.5 U	0.5 U	1.79	0.6 U	0.6 U	0.25 U	0.5 U
1,2,4-Trimethylbenzene	120-82-1	5		0.5 U	0.5 U	0.98 J	340	NR	NR	NR	NR	NR	NR	NR	4.61
1,3,5-Trimethylbenzene	108-67-8	5		0.5 U	0.5 U	1 U	120	NR	NR	NR	NR	NR	NR	NR	27.8
m,p-Xylene	179601-23-1	5 ea		1 U	1 U	2.5	730	1300	31	1 U	284	0.6 U	0.56 J	0.5 U	21.7
o-Xylene	95-47-6	5		0.5 U	0.5 U	1 U	98 J	67	0.5 U	0.5 U	124	0.6 U	0.6 J	0.5 U	4.39
Xylenes, Total[3]			10000	ND	ND	3	828 J	1367	31	ND	408	ND	1.16 J	ND	26.09
Total BTEX[4]				ND	ND	5	1338	1868	88	ND	758	2	3	ND	92
Field Parameters															
Conductivity	mS/cm	mS/cm		0.144	0.079	0.126	0.126	0.131	10	0.103	0.098	0.113	0.072	0.112	0.13
Dissolved Oxygen	mg/L	mg/L		10.2	9.96	6.47	0.69	0.4	11.2	5.69	1.44	6.95	8.99	3.81	1.48
ORP	mV	mV		150	140	0	-101	-73	114	89	17	99	195	155	128
Temperature	°C	°C		18.76	16.9	7.99	20.3	16.4	9.7	18	12.44	16.19	21.4	16	12.11
Turbidity	NTU	NTU		47.2	96.6	641	46.4	0	9	7.3	0	31	20.4	31.8	23.9
pH	STD UN	STD UN		4.52	6.27	5.7	5.79	6.16	5.7	5.71	5.6	5.58	5.63	5.83	6.08
Water level		(ft AMSL)		NA	NA	14.06	15.00	13.44	12.98	12.21	12.66	11.95	11.45	10.94	11.43

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				SDW-23A					SDW-23AR				SDW-24A	
Sample ID				SDW-23A13	SDW-23A14	SDW23A15	SDW23A16	SDW23A17	SDW23AR01	SDW23AR02	SDW23AR03	SDW23AR04	SDW-24A01	SDW-24A02
Depth (ft)				35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.1 - 45.1	35.3 - 45.3	35.3 - 45.3
Inside/Outside Biosparge Influence				Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside
Date				05/13/13	08/13/13	12/05/13	03/22/14	08/25/14	11/18/14	04/01/15	06/24/15	10/21/15	08/07/08	03/29/12
Sample Type		NYSDEC[1]	MCL[2]	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile														
Acetone	67-64-01	50		NR	5 U	NR	5 U	16.5 J	5 U	5 U	4.86 J	5 U	5 U	NR
Benzene	71-43-2	1	5	0.25 U	0.25 U	0.25 U	0.25 U	0.25 R	0.25 U	0.25 U	0.25 U	0.25 U	1 U	0.6 U
2-Butanone	78-93-3			NR	5 U	NR	5 U	5 R	5 U	5 U	5 U	5 U	5 U	NR
n-Butylbenzene	104-51-8	5		NR	0.5 U	NR	0.5 U	0.5 R	1.2 J	0.5 U	0.5 U	0.5 U	1 U	NR
sec-Butylbenzene	135-98-8	5		NR	0.5 U	NR	0.324 J	5.28 J	2.41	0.5 U	0.5 U	0.5 U	1 U	NR
tert-Butylbenzene	98-06-6	5		NR	0.5 U	NR	0.5 U	0.5 R	0.631 J	0.5 U	0.5 U	0.5 U	1 U	NR
Carbon disulfide	75-15-0	60		NR	1 U	NR	1 U	1 R	1 U	1 U	1 U	1 U	1 U	NR
Cyclohexane	110-82-7			NR	2 U	NR	2 U	86 J	21.5	2 U	2 U	2 U	1 U	NR
Ethylbenzene	100-41-4	5	700	0.5 U	0.5 U	0.981 J	0.5 U	461 J	112	0.5 U	0.5 U	0.314 J	1 U	0.6 U
2-Hexanone	591-78-6	50		NR	5 U	NR	5 U	11 J	5 U	5 U	5 U	5 U	5 U	NR
Isopropylbenzene	98-82-8	5		NR	0.5 U	NR	1.15	46.4 J	17.2	0.5 U	0.5 U	0.5 U	1 U	NR
p-Isopropyltoluene	99-87-6	5		NR	0.5 U	NR	0.5 U	5.18 J	1.93	0.5 U	0.5 U	0.5 U	1 U	NR
Methylcyclohexane	108-87-2			NR	2 U	NR	2 U	70.9 J	7.88	2 U	2 U	2 U	1 U	NR
4-Methyl-2-pentanone	108-10-1			NR	5 U	NR	5 U	6.72 J	5 U	5 U	5 U	5 U	5 U	NR
Naphthalene	91-20-3	10		NR	0.4 U	NR	0.906 J	89.4 J	41.8	0.403 J	0.4 U	0.4 U	1 U	NR
n-Propylbenzene	103-65-1	5		NR	0.25 U	NR	0.25 U	46.8 J	14.1	0.25 U	0.25 U	0.25 U	1 U	NR
1,1,2,2-Tetrachloroethane	79-34-5	5		NR	0.4 U	NR	0.4 U	0.4 R	0.4 U	0.4 U	0.4 U	0.4 U	1 U	NR
Toluene	108-88-3	5	1000	0.5 U	0.5 U	0.5 U	0.5 U	191 J	33.3	0.5 U	0.5 U	0.5 U	1 U	0.6 U
1,2,4-Trimethylbenzene	120-82-1	5		NR	0.5 U	NR	0.5 U	203 J	63	0.5 U	0.5 U	0.5 U	1 U	NR
1,3,5-Trimethylbenzene	108-67-8	5		NR	0.5 U	NR	0.5 U	68.8 J	11.6	0.5 U	0.5 U	0.5 U	1 U	NR
m,p-Xylene	179601-23-1	5 ea		1 U	1 U	1 U	1 U	1120 J	197	1 U	1 U	1 U	1 U	0.6 U
o-Xylene	95-47-6	5		0.5 U	0.5 U	0.5 U	0.5 U	571 J	93.1	0.5 U	0.5 U	0.5 U	1 U	0.6 U
Xylenes, Total[3]			10000	ND	ND	ND	ND	1691 J	290	ND	ND	ND	ND	ND
Total BTEX[4]				ND	ND	1	ND	2343	435	ND	ND	1	ND	ND
Field Parameters														
Conductivity	mS/cm	mS/cm		0.038	14.1	NM	0.182	0.298	0.220	0.081	0.133	0.109	0.087	0.166
Dissolved Oxygen	mg/L	mg/L		4.8	4.72	3.6	8	0.89	3.66	4.08	7.38	8.48	6.31	9.32
ORP	mV	mV		235	143	-160	81	-111	-74	16	123	154	-35	127
Temperature	°C	°C		19.4	19.81	13.9	10.28	24.8	10.4	11.7	19.94	18.1	17.1	12.34
Turbidity	NTU	NTU		0	128	9	5.2	30.2	45.9	4.9	49	16.5	24.1	0
pH	STD UN	STD UN		4.77	6.12	5.43	5.97	6.22	6.07	5.45	4.9	5.91	6.09	6.09
Water level		(ft AMSL)		NA	12.05	10.91	11.59	11.09	NA	NA	NA	NA	13.12	13.41

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				SDW-24A	SW-6A	SW-6B	SW-05	SW-06						
Sample ID				SDW-24A03	SW-6A01	SW-6B01	SW0501	SW0601	SW0602	SW0603	SW0604	SW06DUP04	SW0605	SW06RS05
Depth (ft)				35.3 - 45.3	39.7 - 49.7	29.7 - 39.7	26.0 - 36.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0
Inside/Outside Biosparge Influence				Inside	Outside	Outside	Outside	Inside	Inside	Inside	Inside	Inside	Inside	Inside
Date				08/28/12	07/30/08	07/30/08	07/26/08	07/26/08	07/29/09	01/25/10	07/28/10	07/28/10	03/14/11	03/14/11
Sample Type		NYSDEC[1]	MCL[2]	GR	GR	GR	GR	GR	GR	GR	GR	FD	GR	FD
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile														
Acetone	67-64-01	50		NR	5 U	5 U	NR	NR	42	5 U	5 UJ	5 U	NR	NR
Benzene	71-43-2	1	5	0.6 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	0.5 U
2-Butanone	78-93-3			NR	5 U	5 U	NR	NR	5 U	5 U	5 UJ	5 U	NR	NR
n-Butylbenzene	104-51-8	5		NR	1 U	1 U	NR	NR	13	14	1 UJ	1 U	NR	NR
sec-Butylbenzene	135-98-8	5		NR	1 U	0.64 J	NR	NR	11	11	13 J	20 J	NR	NR
tert-Butylbenzene	98-06-6	5		NR	1 U	1 U	NR	NR	2.7	2.4	3.3 J	4.7 J	NR	NR
Carbon disulfide	75-15-0	60		NR	1 U	1 U	NR	NR	1 U	1 U	1 UJ	1 U	NR	NR
Cyclohexane	110-82-7			NR	1 U	3.2	NR	NR	140	130	150	150	NR	NR
Ethylbenzene	100-41-4	5	700	0.6 U	1 U	17	5 U	560	400	600	570	590	450	430
2-Hexanone	591-78-6	50		NR	5 U	5 U	NR	NR	5 U	5 U	5 UJ	5 U	NR	NR
Isopropylbenzene	98-82-8	5		NR	1 U	2.1	NR	NR	76	74	81 J	62	NR	NR
p-Isopropyltoluene	99-87-6	5			1 U	0.63 J	NR	NR	13	12	17 J	25 J	NR	NR
Methylcyclohexane	108-87-2			NR	1 U	5.3	NR	NR	120	250	250	270	NR	NR
4-Methyl-2-pentanone	108-10-1			NR	5 U	5 U	NR	NR	5 U	5 U	5 UJ	5 U	NR	NR
Naphthalene	91-20-3	10		NR	1 U	21	NR	NR	140	140	150	160	NR	NR
n-Propylbenzene	103-65-1	5		NR	1 U	3.4	NR	NR	79	76	82	85	NR	NR
1,1,2,2-Tetrachloroethane	79-34-5	5		NR	1 U	1 U	NR	NR	1 U	1 U	1 UJ	1 U	NR	NR
Toluene	108-88-3	5	1000	0.6 U	1 U	7.6	1 U	640	180 J	300	710	720	140	150
1,2,4-Trimethylbenzene	120-82-1	5		NR	1 U	16	NR	NR	470	650	550	550	NR	NR
1,3,5-Trimethylbenzene	108-67-8	5		NR	1 U	4.5	NR	NR	180	270	220	220	NR	NR
m,p-Xylene	179601-23-1	5 ea		0.56 J	1 U	46	2 U	2100	1600	2300	2200	2300	1900	1900
o-Xylene	95-47-6	5		0.6 U	1 U	21	1 U	880	590 J	900	900	910	730	720
Xylenes, Total[3]			10000	ND	ND	67	ND	2980	2190 J	3200	3100	3210	2630	2620
Total BTEX[4]				1	ND	92	ND	4180	2770	4100	4380	4520	3220	3200
Field Parameters														
Conductivity	mS/cm	mS/cm		0.116	0.428	0.309	0.084	0.041	0.05	0.042	0.057	0.057	7	7
Dissolved Oxygen	mg/L	mg/L		4.6	0.73	4.2	8.19	0.35	2.66	0	0.69	0.69	0.5	0.5
ORP	mV	mV		144	175	-60	15	-9	-86	-9	-61	-61	-58	-58
Temperature	°C	°C		26.3	14.8	14.3	15.8	16.1	18.13	13.2	18	18	11.6	11.6
Turbidity	NTU	NTU		17.3	9.2	305	26.9	68.7	109	9.7	7.6	7.6	0	0
pH	STD UN	STD UN		5.71	6.29	6.24	5.91	5.28	4.4	5.73	5.31	5.31	6	6
Water level		(ft AMSL)		12.16	12.70	12.69	12.59	12.70	6.33	14.40	15.36	15.36	13.19	13.19

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				SW-06										
Sample ID				SW0606	SW0607	SW0608	SW0609	SW0610	SW0611	SW0612	SW0613	SW0614	SW0615	SW0616
Depth (ft)				20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0
Inside/Outside Biosparge Influence				Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside
Date				08/03/11	03/28/12	06/19/12	08/28/12	11/12/12	02/18/13	05/13/13	08/15/13	12/03/13	03/21/14	06/04/14
Sample Type		NYSDEC[1]	MCL[2]	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile														
Acetone	67-64-01	50		NR	NR	NR	NR	NR	1240	NR	51.1	NR	182	433 J
Benzene	71-43-2	1	5	0.5 U	0.6 U	0.6 U	0.6 U	1 U	1.91 J	1.25 U	0.25 U	2.5 U	0.25 U	0.25 U
2-Butanone	78-93-3			NR	NR	NR	NR	NR	232	NR	5 U	NR	53.7	46.8
n-Butylbenzene	104-51-8	5		NR	NR	NR	NR	NR	2.5 U	NR	13.3	NR	11.6	11.4
sec-Butylbenzene	135-98-8	5		NR	NR	NR	NR	NR	8.68	NR	9.6	NR	6.68	6.95
tert-Butylbenzene	98-06-6	5		NR	NR	NR	NR	NR	2.5 U	NR	3.06	NR	2.14	2.39
Carbon disulfide	75-15-0	60		NR	NR	NR	NR	NR	5 U	NR	1 U	NR	0.563 J	0.643 J
Cyclohexane	110-82-7			NR	NR	NR	NR	NR	NR	NR	32.9	NR	36.6	13.7
Ethylbenzene	100-41-4	5	700	330 J	408	471 J	685 J	122	325	354	104	400	78.9	30.3
2-Hexanone	591-78-6	50		NR	NR	NR	NR	NR	14.2 J	NR	5 U	NR	5 U	5 U
Isopropylbenzene	98-82-8	5		NR	NR	NR	NR	NR	63.1	NR	43.3	NR	30.2	22.6
p-Isopropyltoluene	99-87-6	5		NR	NR	NR	NR	NR	11.8	NR	11.6	NR	9.49	9.71
Methylcyclohexane	108-87-2			NR	NR	NR	NR	NR	NR	NR	87.8	NR	63.3	49.8
4-Methyl-2-pentanone	108-10-1			NR	NR	NR	NR	NR	18.1 J	NR	5 U	NR	10.4	5 U
Naphthalene	91-20-3	10		NR	NR	NR	NR	NR	NR	NR	29.7	NR	32.4	13.6
n-Propylbenzene	103-65-1	5		NR	NR	NR	NR	NR	74.6	NR	48.4	NR	30.9	26
1,1,2,2-Tetrachloroethane	79-34-5	5		NR	NR	NR	NR	NR	1.02 J	NR	0.4 U	NR	0.4 U	0.4 U
Toluene	108-88-3	5	1000	350 J	90.6	268 J	279 J	24.1	16.3	10.6	6.21	53.9	9.98	1.88
1,2,4-Trimethylbenzene	120-82-1	5		NR	NR	NR	NR	NR	501	NR	265	NR	194	152
1,3,5-Trimethylbenzene	108-67-8	5		NR	NR	NR	NR	NR	211	NR	147	NR	119	103
m,p-Xylene	179601-23-1	5 ea		1200 J	1560	1660 J	1920 J	427	1370	1480	433	944	399	156
o-Xylene	95-47-6	5		500 J	619	752 J	962 J	191	540	631	177	449	213	66.8
Xylenes, Total[3]			10000	1700 J	2179	2410 J	2882 J	618	1910	2111	610	1393	612	223
Total BTEX[4]				2380	2678	3155	3847	764	2253	2465	714	1847	701	255
Field Parameters														
Conductivity	mS/cm	mS/cm		0.047	0.075	0.074	0.058	0.052	0.156	0.069	6.1	NM	0.083	0.048
Dissolved Oxygen	mg/L	mg/L		0.4	1.96	4.45	0	4.17	0	0	0	1.1	2.98	0
ORP	mV	mV		-63	-33	20	5	-77	-110	-120	-87	NM	-7	-138
Temperature	°C	°C		15.6	11.8	15.06	16.9	17.6	9.6	14	16.4	14.05	14.24	16.3
Turbidity	NTU	NTU		43	11	0	38.8	10.2	3.5	16.3	22.9	0	5.4	2.9
pH	STD UN	STD UN		4.61	5.01	4.74	4.31	4.95	3.48	4.27	5.17	5.11	5.27	5.14
Water level		(ft AMSL)		12.50	12.98	11.98	11.61	11.18	11.41	12.58	12.34	11.21	11.74	12.67

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				SW-06									SW-07	
Sample ID				SW0617	SW0618	SW0618D	SW0619	SW0619D	SW0620	SW0620D	SW0621	SW0621D	SW0701	SW0703
Depth (ft)				20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	20.0 - 30.0	25.0 - 35.0	25.0 - 35.0
Inside/Outside Biosparge Influence				Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Inside	Outside	Outside
Date				08/25/14	11/17/14	11/17/14	03/31/15	03/31/15	06/23/15	06/23/15	10/20/15	10/20/15	07/29/08	01/25/10
Sample Type		NYSDEC[1]	MCL[2]	GR	GR	FD	GR	FD	GR	FD	GR	FD	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile														
Acetone	67-64-01	50		89.2 J	5 UJ	5 UJ	28.2 U	29 U	5 U	5 U	5 U	5 U	NR	5 U
Benzene	71-43-2	1	5	0.25 R	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U
2-Butanone	78-93-3			25.6 J	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	NR	5 U
n-Butylbenzene	104-51-8	5		0.5 R	4.94 J	5.7 J	2.73	2.75	0.265 J	0.267 J	1.72	1.63	NR	4.4
sec-Butylbenzene	135-98-8	5		6.22 J	2.24	2.48	1.3	1.43	0.5 U	0.5 U	0.709 J	0.667 J	NR	7
tert-Butylbenzene	98-06-6	5		0.5 R	0.488 J	0.647 J	0.415 J	0.415 J	0.5 U	0.5 U	0.5 U	0.5 U	NR	1 U
Carbon disulfide	75-15-0	60		1 R	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NR	1 U
Cyclohexane	110-82-7			8.43 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NR	72
Ethylbenzene	100-41-4	5	700	16.4 J	0.5 U	0.5 U	5.96	5.86	0.5 U	0.5 U	0.5 U	0.5 U	38	67
2-Hexanone	591-78-6	50		6.63 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NR	5 U
Isopropylbenzene	98-82-8	5		17.2 J	1.63	1.83	2.3	2.25	0.5 U	0.5 U	0.569 J	0.533 J	NR	53
p-Isopropyltoluene	99-87-6	5		7.83 J	3.13	3.71	1.76	1.72	0.5 U	0.5 U	0.939 J	0.852 J	NR	6.1
Methylcyclohexane	108-87-2			32.2 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NR	94
4-Methyl-2-pentanone	108-10-1			3.99 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NR	5 U
Naphthalene	91-20-3	10		6.6 J	3.52	3.68	7.08	6.95	0.4 U	0.4 U	1.12	1.03	NR	25
n-Propylbenzene	103-65-1	5		19.8 J	1.34	1.53	2.04	2.01	0.25 U	0.25 U	0.491 J	0.468 J	NR	58
1,1,2,2-Tetrachloroethane	79-34-5	5		0.4 R	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NR	1 U
Toluene	108-88-3	5	1000	1.32 J	0.5 U	0.5 U	0.979 J	1.01	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U
1,2,4-Trimethylbenzene	120-82-1	5		104 J	41.6	45.6	31.5	31.5	0.266 J	0.275 J	9.88	9.24	NR	300
1,3,5-Trimethylbenzene	108-67-8	5		72.8 J	26	28.6	20.9	22.3	0.369 J	0.296 J	8.94	8.46	NR	79
m,p-Xylene	179601-23-1	5 ea		93.6 J	10.1	11	48.4	47.2	1 U	1 U	4.09	3.89	190	250
o-Xylene	95-47-6	5		38.1 J	5.13	5.57	31.6	31.5	0.5 U	0.5 U	3.05	3.01	43	75
Xylenes, Total[3]			10000	132 J	15.23	16.57	80.00	78.70	ND	ND	7.14	6.90	233	325
Total BTEX[4]				152	15	17	87	86	ND	ND	7	7	271	392
Field Parameters														
Conductivity	mS/cm	mS/cm		0.063	0.048	0.048	0.058	0.058	0.062	0.062	0.049	0.049	0.072	0.034
Dissolved Oxygen	mg/L	mg/L		2.65	6.89	6.89	9.27	9.27	9.43	9.43	9.78	9.78	1.93	1.83
ORP	mV	mV		-119	282	282	64	64	225	225	300	300	-43	-49
Temperature	°C	°C		31	15.7	15.7	10.5	10.5	19.43	19.43	16.6	16.6	15.2	13.8
Turbidity	NTU	NTU		6.4	2	2	9.4	9.4	117	117	15.2	15.2	35.9	7.2
pH	STD UN	STD UN		5.3	4.28	4.28	3.8	3.8	4.06	4.06	4.29	4.29	5.79	5.95
Water level		(ft AMSL)		11.68	10.50	10.50	12.64	12.64	12.08	12.08	10.93	10.93	12.98	14.69

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				SW-07									
Sample ID				SW0704	SW0705	SW0706	SW0707	SW0708	SW0709	SW0710	SW0711	SW0712	SW0713
Depth (ft)				25.0 - 35.0	25.0 - 35.0	25.0 - 35.0	25.0 - 35.0	25.0 - 35.0	25.0 - 35.0	25.0 - 35.0	25.0 - 35.0	25.0 - 35.0	25.0 - 35.0
Inside/Outside Biosparge Influence				Outside	Outside	Outside	Outside	Outside	Inside	Inside	Inside	Inside	Inside
Date				07/28/10	03/14/11	08/03/11	03/29/12	08/28/12	02/19/13	05/13/13	08/14/13	12/04/13	03/21/14
Sample Type		NYSDEC[1]	MCL[2]	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile													
Acetone	67-64-01	50		5 UJ	NR	NR	NR	NR	55.3 U	NR	346	NR	8.74 U
Benzene	71-43-2	1	5	1 UJ	0.5 U	0.5 U	0.6 U	0.6 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Butanone	78-93-3			5 UJ	NR	NR	NR	NR	5 U	NR	5 U	NR	5 U
n-Butylbenzene	104-51-8	5		1 UJ	NR	NR	NR	NR	0.5 U	NR	4.04	NR	0.485 J
sec-Butylbenzene	135-98-8	5		3.9 J	NR	NR	NR	NR	1.67	NR	3.46	NR	0.995 J
tert-Butylbenzene	98-06-6	5		0.63 J	NR	NR	NR	NR	0.5 U	NR	1.25 U	NR	0.5 U
Carbon disulfide	75-15-0	60		1 UJ	NR	NR	NR	NR	1 U	NR	1 U	NR	1 U
Cyclohexane	110-82-7			44 J	NR	NR	NR	NR	NR	NR	34.4	NR	2 U
Ethylbenzene	100-41-4	5	700	51 J	110	62 J	35.2	78.8 J	30.2	21.3	29.5	14	0.5 U
2-Hexanone	591-78-6	50		5 UJ	NR	NR	NR	NR	5 U	NR	5 U	NR	5 U
Isopropylbenzene	98-82-8	5		23 J	NR	NR	NR	NR	11.1	NR	24.1	NR	3.08
p-Isopropyltoluene	99-87-6	5		4 J	NR	NR	NR	NR	1.53	NR	3.21	NR	0.5 U
Methylcyclohexane	108-87-2			52 J	NR	NR	NR	NR	NR	NR	37.8	NR	3.83 J
4-Methyl-2-pentanone	108-10-1			5 UJ	NR	NR	NR	NR	5 U	NR	5 U	NR	5 U
Naphthalene	91-20-3	10		20 J	NR	NR	NR	NR	NR	NR	9.93	NR	0.4 U
n-Propylbenzene	103-65-1	5		31 J	NR	NR	NR	NR	12.7	NR	26.4	NR	1.04
1,1,2,2-Tetrachloroethane	79-34-5	5		1 UJ	NR	NR	NR	NR	0.4 U	NR	1 U	NR	0.4 U
Toluene	108-88-3	5	1000	1 UJ	0.5 U	0.5 U	0.6 U	0.6 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	120-82-1	5		88	NR	NR	NR	NR	63.0	NR	139.0	NR	2.46
1,3,5-Trimethylbenzene	108-67-8	5		40 J	NR	NR	NR	NR	21.6	NR	55.9	NR	6.96
m,p-Xylene	179601-23-1	5 ea		190 J	540	260 J	135	290 J	133	94.5	166	17.9	1.88
o-Xylene	95-47-6	5		56 J	120	64 J	37.9	80.3 J	31.5	23.3	39	3.49	1.87
Xylenes, Total[3]			10000	246 J	660	324 J	173	370 J	165	118	205	21.39	3.75
Total BTEX[4]				297	770	386	208	450	195	139	235	35	4
Field Parameters													
Conductivity	mS/cm	mS/cm		0.051	17	0.065	0.056	0.074	0.175	0.13	14.4	NM	0.113
Dissolved Oxygen	mg/L	mg/L		3.45	0.7	0.78	2.67	0.1	3.03	0	2.07	10	12.24
ORP	mV	mV		-35	-64	-112	-64	-125	29	-43	-53	468	333
Temperature	°C	°C		15.7	12.86	15.2	13.39	16.1	13.6	14.7	15.93	14.62	11.76
Turbidity	NTU	NTU		5.5	0	6	0	4.5	2.9	17.5	NM	0	4.7
pH	STD UN	STD UN		5.08	5.9	5.25	5.18	6.2	4.27	3.9	4.71	5.81	4.8
Water level		(ft AMSL)		15.70	13.45	12.74	13.27	11.96	11.68	12.95	12.67	13.55	12.19

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Station				SW-07						SW-10			
Sample ID				SW0714	SW0715	SW0716	SW0717	SW0718	SW0719	SW1001	SW1002	SW1003	SW1004
Depth (ft)				25.0 - 35.0	25.0 - 35.0	25.0 - 35.0	25.0 - 35.0	25.0 - 35.0	25.0 - 35.0	24.5 - 34.5	24.5 - 34.5	24.5 - 34.5	24.5 - 34.5
Inside/Outside Biosparge Influence				Inside	Inside	Inside	Inside	Inside	Inside	Outside	Outside	Outside	Outside
Date				06/04/14	08/25/14	11/18/14	03/31/15	06/24/15	10/21/15	07/30/08	07/30/09	01/25/10	08/28/12
Sample Type		NYSDEC[1]	MCL[2]	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile													
Acetone	67-64-01	50		6.75	131 J	5 UJ	7.62 U	7.24	17.4 U	NR	5 U	5 U	NR
Benzene	71-43-2	1	5	0.25 U	0.25 R	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U	0.65 U
2-Butanone	78-93-3			5 U	12.1 J	5 UJ	5 U	5 U	5 U	NR	5 U	5 U	NR
n-Butylbenzene	104-51-8	5		0.5 U	0.5 R	0.763 J	0.355 J	0.5 U	0.5 U	NR	1 U	1 U	NR
sec-Butylbenzene	135-98-8	5		0.5 U	2.61 J	0.623 J	0.292 J	0.5 U	0.283 J	NR	1 U	1 U	NR
tert-Butylbenzene	98-06-6	5		0.5 U	0.5 R	0.5 U	0.5 U	0.5 U	0.5 U	NR	1 U	1 U	NR
Carbon disulfide	75-15-0	60		1 U	1 R	1 U	1 U	1 U	1 UJ	NR	1 U	1 U	NR
Cyclohexane	110-82-7			2 U	13.3 J	2 U	2 U	2 U	2 U	NR	1 U	1 U	NR
Ethylbenzene	100-41-4	5	700	0.378 J	5.53 J	1.24	0.5 U	0.589 J	0.758 J	40	1 U	1 U	0.6 U
2-Hexanone	591-78-6	50		5 U	5 R	5 U	5 U	5 U	5 U	NR	5 U	5 U	NR
Isopropylbenzene	98-82-8	5		0.323 J	12.8 J	1.38	0.5 U	0.796 J	1.26	NR	1 U	1 U	NR
p-Isopropyltoluene	99-87-6	5		0.5 U	3.08 J	0.317 J	0.5 U	0.5 U	0.5 U	NR	1 U	1 U	NR
Methylcyclohexane	108-87-2			2 U	25.4 J	2 U	2 U	2 U	2 U	NR	1 U	1 U	NR
4-Methyl-2-pentanone	108-10-1			5 U	5 R	5 UJ	5 U	5 U	5 U	NR	5 U	5 U	NR
Naphthalene	91-20-3	10		0.4 U	3.21 J	1.09	0.4 U	0.4 U	0.476 J	NR	1 U	1 U	NR
n-Propylbenzene	103-65-1	5		0.231 J	16.5 J	1.59	0.25 U	0.851 J	1.34	NR	1 U	1 U	NR
1,1,2,2-Tetrachloroethane	79-34-5	5		0.4 U	0.4 R	0.4 U	0.4 U	0.4 U	0.4 U	NR	1 U	1 U	NR
Toluene	108-88-3	5	1000	0.5 U	0.5 R	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	0.6 U
1,2,4-Trimethylbenzene	120-82-1	5		1.78	78.6 J	10.7	0.5 U	4.38	10.7	NR	1 U	1 U	NR
1,3,5-Trimethylbenzene	108-67-8	5		1.37	30.9 J	6.26	1.61	2.58	6.66	NR	1 U	1 U	NR
m,p-Xylene	179601-23-1	5 ea		2.01	29.2 J	8.42	1 U	3.02	5.57	27	2 U	2 U	0.6 U
o-Xylene	95-47-6	5		0.508 J	6.86 J	2.89	0.5 U	0.785 J	1.88	9.4	1 U	1 U	0.6 U
Xylenes, Total[3]			10000	2.51 J	36.06 J	11.31	ND	3.81	7.45	36.00	ND	ND	ND
Total BTEX[4]				3 J	42	13	ND	4	8	76	ND	ND	ND
Field Parameters													
Conductivity	mS/cm	mS/cm		0.126	0.224	0.222	0.158	0.256	0.379	0.063	0.072	0.052	0.053
Dissolved Oxygen	mg/L	mg/L		9.18	4.29	8.47	8.19	9.57	8.07	5.42	5.99	8.89	7.1
ORP	mV	mV		15	-114	-31	77	-21	-74	137	211	304	311
Temperature	°C	°C		15.2	20.8	15.8	11.9	15.86	16.6	15	20.56	12.5	16.6
Turbidity	NTU	NTU		6.9	30.6	3.3	29.9	12.7	0	9.82	67	3.1	11.1
pH	STD UN	STD UN		6.48	6.34	7.04	6.01	4.62	6.93	5.12	4.53	4.87	5.19
Water level		(ft AMSL)		14.49	14.65	13.90	15.71	15.37	14.55	12.76	14.90	14.44	11.79

Table 1. Analytical Results of Groundwater Monitoring and Field Parameters Collected at IRP Site 4, August 2008 through October 2015 (continued)

IRP Site				Site 4	Site 4	Site 4	Site 4
Media				Groundwater	Groundwater	Groundwater	Groundwater
Station				SW-10			
Sample ID				SW1005	SW1006	SW1007	SW1008
Depth (ft)				24.5 - 34.5	24.5 - 34.5	24.5 - 34.5	24.5 - 34.5
Inside/Outside Biosparge Influence				Outside	Outside	Outside	Outside
Date				02/19/13	08/14/13	03/22/14	08/25/14
Sample Type		NYSDEC[1]	MCL[2]	GR	GR	GR	GR
Analyte		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Organics - Volatile							
Acetone	67-64-01	50		6.1 U	5 U	5 U	3.44 J
Benzene	71-43-2	1	5	0.25 U	0.25 U	0.25 U	0.25 R
2-Butanone	78-93-3			5 U	5 U	5 U	5 R
n-Butylbenzene	104-51-8	5		0.5 U	0.5 U	0.5 U	0.5 R
sec-Butylbenzene	135-98-8	5		0.5 U	0.5 U	0.5 U	0.5 R
tert-Butylbenzene	98-06-6	5		0.5 U	0.5 U	0.5 U	0.5 R
Carbon disulfide	75-15-0	60		1 U	1 U	1 U	1 R
Cyclohexane	110-82-7			NR	2 U	2 U	2 R
Ethylbenzene	100-41-4	5	700	0.5 U	0.5 U	0.5 U	0.5 R
2-Hexanone	591-78-6	50		5 U	5 U	5 U	5 R
Isopropylbenzene	98-82-8	5		0.5 U	0.5 U	0.5 U	0.5 R
p-Isopropyltoluene	99-87-6	5		0.5 U	0.5 U	0.5 U	0.5 R
Methylcyclohexane	108-87-2			NR	2 U	2 U	2 R
4-Methyl-2-pentanone	108-10-1			5 U	5 U	5 U	5 R
Naphthalene	91-20-3	10		NR	0.4 U	0.4 U	0.4 R
n-Propylbenzene	103-65-1	5		0.25 U	0.25 U	0.25 U	0.25 R
1,1,2,2-Tetrachloroethane	79-34-5	5		0.4 U	0.4 U	0.4 U	0.4 R
Toluene	108-88-3	5	1000	0.5 U	0.5 U	0.5 U	0.5 R
1,2,4-Trimethylbenzene	120-82-1	5		0.5 U	0.5 U	0.5 U	0.5 R
1,3,5-Trimethylbenzene	108-67-8	5		0.5 U	0.5 U	0.5 U	0.5 R
m,p-Xylene	179601-23-1	5 ea		1 U	1 U	1 U	1 R
o-Xylene	95-47-6	5		0.5 U	0.5 U	0.5 U	0.5 R
Xylenes, Total[3]			10000	ND	ND	ND	2 R
Total BTEX[4]				ND	ND	ND	3
Field Parameters							
Conductivity	mS/cm	mS/cm		0.045	6.4	0.072	0.064
Dissolved Oxygen	mg/L	mg/L		7.29	10.03	11.58	10.82
ORP	mV	mV		203	224	243	146
Temperature	°C	°C		12.7	15.75	12.42	16.3
Turbidity	NTU	NTU		1.5	11.3	0	15.9
pH	STD UN	STD UN		4.51	5.14	5.25	4.92
Water level		(ft AMSL)		11.64	11.41	10.94	10.47

[1] NYSDEC Class GA groundwater standards from Division of Water Technical and Operation Guidance Series 1.1.1.

[2] U.S. Environmental Protection Agency National Primary and Secondary Drinking Water Standards.

[3] Total xylenes is the sum of o-xylene and m+p-xylene. Non-detects are excluded. Total xylene values for August 2014 are estimated and/or contain "R" data qualifiers where the presence or absence of the analyte cannot be verified.

[4] Total BTEX is the sum of benzene, toluene, ethylbenzene, and xylene. Non-detects are excluded and data flags have been excluded. BTEX values for August 2014 are estimated and/or contain "R" data qualifiers where the presence or absence of the analyte cannot be verified.

Concentration exceeds criteria.

Well was sampled during this semiannual period.

FD = Field duplicate.

ft AMSL = Feet above mean sea level.

GR = Grab.

IRP = Installation Restoration Program.

J = Detected at an estimated concentration.

MCL = Maximum contaminant level.

mg/L = Milligrams per liter.

NA = Not applicable. Individual constituents were not detected; therefore, no total could be calculated.

NM = Not measured (Typically due to equipment probe interference/malfunction).

NR = Not reported.

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte can not be verified and the result has been rejected.

U = Not detected at the concentration shown.

UJ = not detected at the estimated concentration shown.

µg/L = Micrograms per liter.

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Table 2. Total BTEX Concentrations Over Time at IRP Sites 4

IRP Site	Date	Aug-08	Jul-09	Jan-10	Jul-10	Oct-10	Mar-11	Aug-11	Mar-12	Aug-12	Nov-12	Feb-13	May-13	Aug-13	Dec-13	Mar-14	Jun-14	Aug-14	Nov-14	Mar-15	Jun-15	Oct-15	Reduction[a]	
	Well ID	BTEX Concentration (µg/L)																					(µg/L)	%
Site 4																								
4	MW04-GW01	50	--	--	--	--	--	40	6	33	--	74	--	3	32	3	2	9	--	1	0	1	49	98%
4	MW04-GW02	--	--	--	--	--	--	3,540	2,114	15	271	830	2,535	1,367	1,577	11	111	28	745	26	7	40	3,500	99%
4	MW04-GW03	--	--	--	--	--	--	1,190	2,365	1,738	--	116	665	1,526	1,420	396	383	966	479	313	588	6	1,184	99%
4	MW04-GW04/04R	--	--	--	--	--	--			6,017	440	3		1,869	3,095	7	155	17	983	70	48	42	5,975	99%
4	MW04-GW05	--	--	--	--	--	--			2,210		3	1	796	1,460	ND	ND	3	94	33	151	ND	2,210	100%
4	SW-06	4,180	2,770	4,100	4,380	--	3,220	2,380	2,678	3,847	764	2,253	2,465	714	1,847	701	255	149	15	87	ND	7	4,173	100%
4	SW-07	271	--	392	297	--	770	386	208	450	--	195	139	235	35	4	3	42	13	ND	4	8	263	97%
4	SW-10	76	ND	ND	--	--	--	--	--	ND	--	ND	--	ND	--	ND	--	ND	--	--	--	--	76	100%
4	SDW-23A/23AR	4,432	4,216	5	1,338	1,868	88	ND	758	1	ND	92	ND	ND	1	ND	--	2,343	435	ND	ND	1	4,431	100%
	Totals Site 4	21,966																					21,861	99.5%

[a] Reductions reflect the difference between the earliest and most recent data.

Sampling events prior to air biosparge system start-up.

BTEX = Benzene, toluene, ethylbenzene, and xylene.

IRP = Installation Restoration Program.

ND = Not detected.

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APPENDIX A MONITORING WELL PURGE LOGS

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JUNE 2015

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GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 06-24-15 TIME: 11 : 50

WELL ID NUMBER: MW04GW01 WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 25.3 ft. to 35.3 ft.

INNER CASING: TYPE: (PVC) or Steel ID: (0.75 inches) 2 inches 4 inches

WATER QUALITY METER ID: 0060010

WATER LEVEL INDICATOR ID: 18720

PUMP ID: 10538

TURBIDITY ID: 0060010

PID ID: N/A

DEPTH TO WATER: 32,85 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 25.3 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 34,0 FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type _____

PURGE START TIME: 1210 PURGE END TIME: 1255

TOTAL VOLUME PURGED: 1350 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: MW04-GW01

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1210	0	30	78	22.25	4.45	0.119 ms/cm or S/m	9.99	115.0	32.85	
1230	600	30	88	24.47	4.45	0.110 ms/cm or S/m	4.02	46.7	32.85	
1235	750	30	97	24.64	4.43	0.097 ms/cm or S/m	4.32	48.2	32.85	
1240	900	30	72	24.30	4.53	0.096 ms/cm or S/m	4.47	45.9	32.91	
1245	1050	30	29	23.97	4.76	0.085 ms/cm or S/m	4.57	42.4	32.95	
1250	1200	30	20	23.89	4.75	0.088 ms/cm or S/m	4.56	41.4	32.95	
1255	1350	30	22	23.98	4.72	0.076 ms/cm or S/m	4.60	40.3	32.95	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 06-23-15

TIME: 16 : 48

WELL ID NUMBER: MW04-GW02

WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 16.7 ft. to 31.7 ft.

INNER CASING: TYPE: PVC or Steel ID: (0.75 inches) 2 inches 4 inches

WATER QUALITY METER ID: 0066010

WATER LEVEL INDICATOR ID: 18720

PUMP ID: 10838

TURBIDITY ID: 0066010

PID ID: n/a

DEPTH TO WATER: 25.32 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 16.7 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 27.8' FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type

PURGE START TIME: 1710 PURGE END TIME: 1745

TOTAL VOLUME PURGED: 1400 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY:

RECORDED BY: (Signature)

QA CHECKED BY: (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: MW04-GW02

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	mLITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND **(RECORD UNITS)**	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1710	0	40	104	21.19	4.38	0.084 (ms/cm) or S/m	9.36	115.0	25.32	
1720	400	40	107	21.03	4.19	0.084 ms/cm or S/m	9.40	106	25.33	Dump flow cell
1730	800	40	100	21.25	4.27	0.051 ms/cm or S/m	9.60	14.1	25.33	
1735	1000	40	108	21.67	4.22	0.054 ms/cm or S/m	10.18	11.6	25.34	
1740	1200	40	118	21.87	4.15	0.053 ms/cm or S/m	9.97	11.9	25.34	
1745	1400	40	117	21.94	4.15	0.052 ms/cm or S/m	9.77	12.0	25.34	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 06-23-15

TIME: 18 : 25

WELL ID NUMBER: MW04-GW03

WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 18.2 ft to 33.2 ft.

INNER CASING: TYPE: PVC or Steel ID: (0.75 inches) 2 inches 4 inches

WATER QUALITY METER ID: 0066010

WATER LEVEL INDICATOR ID: 18720

PUMP ID: 10888'

TURBIDITY ID: 0066010

PID ID: MiQ

DEPTH TO WATER: 25.38 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 18.2 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 29.5' FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type

PURGE START TIME: 1841 PURGE END TIME: 1911

TOTAL VOLUME PURGED: 1200 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY:

RECORDED BY: (Signature)

QA CHECKED BY: (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: MW04-GW03

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

	TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1841	~~0641~~	0	40	64	21.90	4.16	0.169 ms/cm or S/m	8.98	72.0	25.38	
1851	~~0651~~	400	40	56	21.64	4.18	0.096 ms/cm or S/m	5.47	56.1		
1856	~~0656~~	600	40	58	21.58	4.16	0.089 ms/cm or S/m	5.68	42.4		
1901	~~0701~~	800	40	55	21.45	4.15	0.088 ms/cm or S/m	5.61	45.6		
	1906	1000	40	54	21.48	4.15	0.086 ms/cm or S/m	5.61	44.7		
	1911	1200	40	54	21.46	4.15	0.086 ms/cm or S/m	5.62	45.3		
							ms/cm or S/m				
							ms/cm or S/m				
							ms/cm or S/m				
							ms/cm or S/m				
							ms/cm or S/m				
							ms/cm or S/m				
							ms/cm or S/m				
							ms/cm or S/m				
							ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 6-23-15 TIME: 14 : 42

WELL ID NUMBER: MW04-GW04R WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 30 ft. to 40 ft.

INNER CASING: TYPE: PVC or Steel ID: (1.00 inches) 2 inches 4 inches

WATER QUALITY METER ID: 0066010

WATER LEVEL INDICATOR ID: 18720

PUMP ID: 10838

TURBIDITY ID: 006610

PID ID: n/a

DEPTH TO WATER: 32.72 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 30 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 38.5' FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type _____

PURGE START TIME: 1550 PURGE END TIME: 1625

TOTAL VOLUME PURGED: 1400 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: MW04-GW04R

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND **(RECORD UNITS)**	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1550	0	40	88	24.78	4.70	0.022 (ms/cm) or S/m	9.47	137.0	32.72	Pump flow rate
1600	800	40	126	21.86	4.43	0.164 ms/cm or S/m	6.46	19.7	32.75	
1615	1000	40	130	21.69	4.44	0.161 ms/cm or S/m	6.33	21.65	32.75	
1620	1200	40	122	21.45	4.50	0.158 ms/cm or S/m	6.20	20.02	32.76	
1625	1400	40	120	21.43	4.52	0.157 ms/cm or S/m	6.19	19.98	32.76	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 06-24-15

TIME: 13 : 45

WELL ID NUMBER: MW04-GW05

WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 30 ft. to 40 ft.

INNER CASING: TYPE: PVC or Steel ID: (0.75 inches) 2 inches 4 inches

WATER QUALITY METER ID: 0046010

WATER LEVEL INDICATOR ID: 18720

PUMP ID: 10836

TURBIDITY ID: 0046010

PID ID: N/A

DEPTH TO WATER: 29.11 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 30 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 35 FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type

PURGE START TIME: 1405 PURGE END TIME: 1430

TOTAL VOLUME PURGED: ~~1435~~ 1430 1000 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY:

RECORDED BY: (Signature)

QA CHECKED BY: (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: MW04-GW05

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	mLITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND **(RECORD UNITS)**	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1405	0	40	163	21.99	4.03	0.159 (ms/cm) or S/m	9.04	82.7	29.11	
1415	400	40	184	20.77	3.99	0.109 ms/cm or S/m	7.26	46.8	29.13	
1420	600	40	188	20.77	3.97	0.094 ms/cm or S/m	7.36	43.2	29.13	
1425	800	40	188	21.07	3.97	0.093 ms/cm or S/m	7.45	40.8	29.14	
1430	1000	40	188	21.30	3.98	0.092 ms/cm or S/m	7.48	40.9	29.14	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 06-23-15 TIME: 11 : 41

WELL ID NUMBER: SW06 WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 20 ft. to 30 ft.

INNER CASING: TYPE: PVC or Steel ID: 0.75 inches (2 inches) 4 inches

WATER QUALITY METER ID: 0066010

WATER LEVEL INDICATOR ID: GABMP30

PUMP ID: 11798

TURBIDITY ID: 0066010

PID ID: n/a

DEPTH TO WATER: 27.0 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 20 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 28.5' FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type

PURGE START TIME: 1210 PURGE END TIME: 1310

TOTAL VOLUME PURGED: 4800 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [ ] Yes [X] No IF NO, WHY WAS A DEVIATION NECESSARY:

Turbidity not below 50 NTU after one hour purge, no sign of dropping

RECORDED BY: (Signature) QA CHECKED BY: (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: SW06

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	mLITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1210	0	80	199	21.26	4.03	0.087 ms/cm or S/m	9.06	0.0	27.00	
1230	1600	80	220	18.71	3.99	0.068 ms/cm or S/m	8.82	129.0	27.00	Dump flow cell
1240	2400	80	229	18.94	3.96	0.062 ms/cm or S/m	9.04	112.0	27.00	
1245	2800	80	229	18.95	3.96	0.062 ms/cm or S/m	9.60	110.0	27.00	
1250	3200	80	227	19.24	4.00	0.062 ms/cm or S/m	9.44	117.0	27.00	
1255	3600	80	226	19.37	3.99	0.062 ms/cm or S/m	9.38	117.0	27.00	
1300	4000	80	225	19.60	4.03	0.062 ms/cm or S/m	9.40	115.0	27.0	
1305	4400	80	226	19.51	4.04	0.062 ms/cm or S/m	9.35	115.0	27.0	
1310	4800	80	225	19.43	4.06	0.062 ms/cm or S/m	9.43	117.0	27.0	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

TASK TEAM ACTIVITY LOG SHEET

PROJECT NAME: Gabreski ANG Base DELIVERY ORDER NO: 198

Date (mm/dd/yy) _____

Su M Tu W Th F Sa

Task Team Members:

_____ _____

_____ _____

_____ _____

Narrative (Include Time and Location)

Daily Weather Conditions A.M. _____

P.M. _____

Recorded By _____ QA Checked By _____

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 6-24-15

TIME: 08 : 15

WELL ID NUMBER: SW07

WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 25 ft. to 35 ft.

INNER CASING: TYPE: PVC or Steel ID: O.75 inches (2 inches) 4 inches

WATER QUALITY METER ID: 0066010

WATER LEVEL INDICATOR ID: GABMP30

PUMP ID: 11798

TURBIDITY ID: 0066010

PID ID: n/a

DEPTH TO WATER: 29.32' FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 25 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 32.0' FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type

PURGE START TIME: 0834 PURGE END TIME: 0934

TOTAL VOLUME PURGED: 3200 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [✓] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY:

RECORDED BY: (Signature)

QA CHECKED BY: (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: SW-07

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
0854	0	80	83	19.51	4.81	0.303 ms/cm or S/m	10.62	123	29.32	
6914	1600	80	-16	16.00	4.67	0.262 ms/cm or S/m	9.44	60	29.32	Dump flow cell
0924	2400	80	-19	15.86	4.66	0.256 ms/cm or S/m	9.62	12.3	29.32	
0929	2800	80	-20	15.87	4.64	0.256 ms/cm or S/m	9.61	12.6	29.22	
0934	3200	80	-21	15.86	4.62	0.256 ms/cm or S/m	9.57	12.7	29.32	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 6-24-15

TIME: 10 : 15

WELL ID NUMBER: SDW23AR

WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 34.6 ft. to 44.6 ft.

INNER CASING: TYPE: PVC or Steel ID: (1.00 inches) 2 inches 4 inches

WATER QUALITY METER ID: 0066010

WATER LEVEL INDICATOR ID: 18720

PUMP ID: 10838

TURBIDITY ID: 0066010

PID ID: N/A

Note: This is a replacement well. Remember to update information on sample tubing bag. Well placement tape on tubing for damaged well SDW-23A currently lists 40.1 ft.

DEPTH TO WATER: 27.40 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 34.6 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 39.6 FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type

PURGE START TIME: 1035 PURGE END TIME: 1105

TOTAL VOLUME PURGED: 1600 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY:

RECORDED BY: (Signature)

QA CHECKED BY: (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: SDW-23AR

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1035	0	40	187	20.28	4.33	0.228 (ms/cm) or S/m	10.99	45.7	27.40	
1045	400	40	187	19.58	4.45	0.127 ms/cm or S/m	9.09	45.1	27.42	
1050	600	40	186	19.57	4.46	0.127 ms/cm or S/m	8.92	43.9	27.42	
1055	800	40	165	19.67	4.61	0.127 ms/cm or S/m	8.07	44.0	27.43	
1100	1000	40	147	19.91	4.71	0.128 ms/cm or S/m	7.50	48.1	27.43	
1105	1200	40	125	20.01	4.83	0.130 ms/cm or S/m	7.40	47.6	27.43	
1110	1400	40	129	19.98	4.84	0.132 ms/cm or S/m	7.43	48.3	27.43	
1115	1600	40	123	19.94	4.90	0.133 ms/cm or S/m	7.38	49.0	27.43	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 06-23-15 TIME: 11 : 50

WELL ID NUMBER: PZ-4 WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 30 ft. to 40 ft.

INNER CASING: TYPE: PVC or Steel ID: (0.75 inches) 2 inches 4 inches

WATER QUALITY METER ID: 0066D10

WATER LEVEL INDICATOR ID: 18720

PUMP ID: 10838

TURBIDITY ID: 0066D10

PID ID: n/a

DEPTH TO WATER: 24.50 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 30.0 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 35.0 FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type

PURGE START TIME: 1330 PURGE END TIME: 1420

TOTAL VOLUME PURGED: 2000 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY:

RECORDED BY: (Signature) QA CHECKED BY: (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: PZ-4

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	mLITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1330	0	40	143	20.88	4.39	0.161 (ms/cm) or S/m	9.87	248	24.58	
1350	800	40	149	19.87	4.36	0.144 ms/cm or S/m	9.77	651.0	24.57	PUMP flowrate
1400	1200	40	147	19.72	4.48	0.142 ms/cm or S/m	10.18	69.1	24.56	
1410	1600	40	153	19.38	4.47	0.143 ms/cm or S/m	10.02	56.0	24.56	
1415	1800	40	152	19.00	4.49	0.144 ms/cm or S/m	10.18	48.8	24.57	
1420	2000	40	150	18.76	4.52	0.144 ms/cm or S/m	10.20	47.2	24.57	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

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OCTOBER 2015

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GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 10/20/15 TIME: 17 : 02

WELL ID NUMBER: MW04GW01 WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 25.3 ft. to 35.3 ft.

INNER CASING: TYPE: (PVC) or Steel ID: (0.75 inches) 2 inches 4 inches

WATER QUALITY METER ID: T704I3001

WATER LEVEL INDICATOR ID: 39496

PUMP ID: 80353

TURBIDITY ID: n/a

PID ID: n/a

DEPTH TO WATER: 33.94 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 25.3 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 34.45 FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type _____

PURGE START TIME: 1710 PURGE END TIME: 1740

TOTAL VOLUME PURGED: 600 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: MW04-GW01

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1710	0	20	47	16.7	4.11	0.179 (ms/cm) or S/m	10.45	18.7	33.94	water level unknown for rest of event
1720	200	20	40	16.6	4.13	0.160 (ms/cm) or S/m	5.08	19.9	See comment	
1725	300	20	32	16.4	4.16	0.128 (ms/cm) or S/m	3.36	17.0	" "	
1730	400	20	28	16.3	4.16	0.114 (ms/cm) or S/m	3.28	14.8	" "	
1735	500	20	27	16.3	4.16	0.108 (ms/cm) or S/m	3.28	13.0	" "	
1740	600	20	27	16.3	4.15	0.108 (ms/cm) or S/m	3.32	13.1	" "	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: [signature] (Signature)

QA CHECKED BY: [signature] (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 10/20/15 TIME: 15 : 05

WELL ID NUMBER: MW04-GW02 WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 16.7 ft. to 31.7 ft.

INNER CASING: TYPE: (PVC) or Steel ID: (0.75 inches) 2 inches 4 inches

WATER QUALITY METER ID: T704/3001

WATER LEVEL INDICATOR ID: 38496

PUMP ID: 80353

TURBIDITY ID: n/a

PID ID: n/a

DEPTH TO WATER: 26.41 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 16.7 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 29.0' FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type

PURGE START TIME: 1515 PURGE END TIME: 1555

TOTAL VOLUME PURGED: 2.25 L

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY:

RECORDED BY: (Signature) QA CHECKED BY: (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: MW04-GW02

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1515	0	50	149	18.2	4.45	0.132 (ms/cm) or S/m	4.81	59.8	26.41	Dump flow cell
1535	1000	50	44	17.8	4.80	0.051 (ms/cm) or S/m	6.08	8.2	26.48	Dump flow cell, pump slip
1540	1250	50	37	17.8	5.04	0.042 (ms/cm) or S/m	10.09	27.2	26.48	
1545	1500	50	30	17.8	5.00	0.042 (ms/cm) or S/m	14.16 (6.68) (3.7)	14.6	26.48	
1550	2000	50	30	17.9	4.98	0.042 (ms/cm) or S/m	6.73	12.9	26.49	
1555	2250	50	30	17.9	4.97	0.042 (ms/cm) or S/m	6.76	13.4	26.49	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 10/20/15 TIME: 16 : 20

WELL ID NUMBER: MW04-GW03 WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 18.2 ft to 33.2 ft.

INNER CASING: TYPE: (PVC) or Steel ID: (0.75 inches) 2 inches 4 inches

WATER QUALITY METER ID: T7043001

WATER LEVEL INDICATOR ID: 38496

PUMP ID: 10312

TURBIDITY ID: n/a

PID ID: n/a

DEPTH TO WATER: 26.94 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 18.2 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 30.0' FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type _____

PURGE START TIME: 1630 PURGE END TIME: 1650

TOTAL VOLUME PURGED: 1.0 L

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: MW04-GW04

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1630	0	50	240	18.5	4.25	0.155 (ms/cm) or S/m	10.31	6.7	26.94	
1640	500	50	249	18.6	4.28	0.096 (ms/cm) or S/m	8.80	1.3	26.99	
1645	750	50	252	18.4	4.28	0.084 (ms/cm) or S/m	8.99	0.0	27.01	
1650	1000	50	253	18.4	4.31	0.091 (ms/cm) or S/m	9.01	0.0	27.01	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
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						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 10-20-15 TIME: 14 : 00

WELL ID NUMBER: MW04-GW04R WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 30 ft. to 40 ft.

INNER CASING: TYPE: (PVC) or Steel ID: (1.00 inches) 2 inches 4 inches

WATER QUALITY METER ID: T7043001

WATER LEVEL INDICATOR ID: 38496

PUMP ID: 10312

TURBIDITY ID: n/a

PID ID: n/a

DEPTH TO WATER: 33.85 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 30 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 38.0 FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type _____

PURGE START TIME: 1410 PURGE END TIME: 1445

TOTAL VOLUME PURGED: 1.75 L

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: Dick Mullis (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: MW04-GW04R

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1410	0	50	142	17.8	5.62	0.258 (ms/cm) or S/m	10.35	111	33.85	Dump flow cell
1430	1000	50	154	17.3	5.76	0.172 (ms/cm) or S/m	10.29	12.4	33.89	
1435	1250	50	164	17.2	5.70	0.174 (ms/cm) or S/m	9.92	7.7	33.88	
1440	1500	50	170	17.2	5.67	0.165 (ms/cm) or S/m	9.50	7.3	33.92	
1445	1750	50	171	17.2	5.68	0.167 (ms/cm) or S/m	9.46	7.2	33.94	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
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						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 10-21-15 TIME: 12 : 50

WELL ID NUMBER: MW04-GW05 WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 30 ft. to 40 ft.

INNER CASING: TYPE: (PVC) or Steel ID: (0.75 inches) 2 inches 4 inches

WATER QUALITY METER ID: T704/3001

WATER LEVEL INDICATOR ID: 38496

PUMP ID: 0312

TURBIDITY ID: n/a

PID ID: n/a

DEPTH TO WATER: 29.49 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 30 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 35.0' FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type _____

PURGE START TIME: 1310 PURGE END TIME: 1335

TOTAL VOLUME PURGED: 1 L

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: MW04-GWQS

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1310	0	40	276	20.5	4.33	0.195 ms/cm or S/m	9.29	12.1	29.49	
1320	400	40	292	19.8	4.40	0.123 ms/cm or S/m	7.19	10.9	29.98	
1325	600	40	302	19.6	4.40	0.102 ms/cm or S/m	6.83	6.3	29.98	
1330	800	40	308	19.8	4.41	0.097 ms/cm or S/m	6.78	6.8	29.99	
1335	1000	40	312	19.8	4.40	0.096 ms/cm or S/m	6.84	6.8	29.99	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 10-20-15 TIME: 10 :00

WELL ID NUMBER: SW06 WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 20 ft. to 30 ft.

INNER CASING: TYPE: (PVC) or Steel ID: 0.75 inches (2 inches) 4 inches

WATER QUALITY METER ID: T70413001

WATER LEVEL INDICATOR ID: GABMP30

PUMP ID: ~~10[illegible]~~ 11798

TURBIDITY ID: n/a

PID ID: n/a

DEPTH TO WATER: 28.15 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 20 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 29.5 FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type _____

PURGE START TIME: 1140 PURGE END TIME: 1225

TOTAL VOLUME PURGED: 3.6 L

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: SW-06

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1140	0	80	224	16.6	4.65	0.112 (ms/cm) or S/m	9.99	93.4	28.15	
1200	1600	80	250	16.7	4.44	0.063 (ms/cm) or S/m	9.85	36.9	28.15	Pump flow rate
1210	2400	80	288	16.5	4.30	0.029 (ms/cm) or S/m	9.71	15.0	28.15	
1215	2800	80	294	16.5	4.32	0.048 (ms/cm) or S/m	9.77	15.0	28.15	
1220	3200	80	298	16.5	4.31	0.049 (ms/cm) or S/m	9.82	15.5	28.15	
1225	3600	80	300	16.6	4.29	0.049 (ms/cm) or S/m	9.78	15.2	28.15	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 10-21-15 TIME: 09 : 57

WELL ID NUMBER: SW07 WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 25 ft. to 35 ft.

INNER CASING: TYPE: (PVC) or Steel ID: 0.75 inches (2 inches) 4 inches

WATER QUALITY METER ID: T704 3001

WATER LEVEL INDICATOR ID: GAS MP38

PUMP ID: 11798

TURBIDITY ID: n/a

PID ID: n/a

DEPTH TO WATER: 30.14 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 25 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 32.0' FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type _____

PURGE START TIME: 1010 PURGE END TIME: 1030

TOTAL VOLUME PURGED: 1.6 L

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: SW-07

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1010	0	80	-55	17.1	6.76	0.394 (ms/cm) or S/m	9.12	9.8	30.14	
1020	800	80	-68	16.7	6.90	0.390 (ms/cm) or S/m	~~8.44~~	0.0	30.30	
1025	1200	80	-73	16.7	6.91	0.381 (ms/cm) or S/m	8.11	0.0	30.25	
1030	1600	80	-74	16.6	6.93	0.379 (ms/cm) or S/m	8.07	0.0	30.26	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 10-21-15 TIME: 11 : 40

WELL ID NUMBER: SDW23AR WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 34.6 ft. to 44.6 ft.

INNER CASING: TYPE: (PVC) or Steel ID: (1.00 inches) 2 inches 4 inches

WATER QUALITY METER ID: TT043001

WATER LEVEL INDICATOR ID: 38494

PUMP ID: 80353

TURBIDITY ID: N/A

PID ID: N/A

Note: This is a replacement well. Remember to update information on sample tubing bag. Well placement tape on tubing for damaged well SDW-23A currently lists 40.1 ft.

DEPTH TO WATER: 28.53 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 34.6 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 39.5' FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type _____

PURGE START TIME: 1210 PURGE END TIME: 1235

TOTAL VOLUME PURGED: 1.25 L

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: SDW-23AR

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1210	0	50	184	18,9	5.55	0,120 ms/cm or S/m	9,96	138.0	28.55	
1220	500	50	153	17.8	5.92	0,114 ms/cm or S/m	8,78	35.0	28.62	
1225	750	50	152	18,3	5,93	0,110 ms/cm or S/m	8,40	16,8	28..62	
1230	1000	50	153	18.4	5,92	0.109 ms/cm or S/m	8,39	16,9	28.63	
1235	1250	50	154	18.1	5.91	0.109 ms/cm or S/m	8.48	16.5	28,63	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: Gabreski ANG Base DELIVERY ORDER NO: 198

DATE (mm/dd/yy): 10-20-15 TIME: 12 : 30

WELL ID NUMBER: PZ-4 WELL LOCATION: GABRESKI SITE 4

DEPTH OF SCREENED INTERVAL (toc notch): 30 ft. to 40 ft.

INNER CASING: TYPE: (PVC) or Steel ID: (0.75 inches) 2 inches 4 inches

WATER QUALITY METER ID: T1043001

WATER LEVEL INDICATOR ID: 38496

PUMP ID: 80353

TURBIDITY ID: n/a

PID ID: n/a

DEPTH TO WATER: 25.59 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 30.0 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 35.0 FT FROM MEASURE POINT

PURGE/SAMPLE METHOD: [ ] Bailer [X] Bladder Pump [ ] Other Pump Type _____

PURGE START TIME: 1235 PURGE END TIME: _____

TOTAL VOLUME PURGED: 2.4 L

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [ ] Yes [X] No IF NO, WHY WAS A DEVIATION NECESSARY: Turbidity not below 50 NTU after 1 hour, all other parameters stable

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: PZ-4

PROJECT NAME: Gabreski ANG Base

DELIVERY ORDER NO: 198

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1235	0	40	124	17.2	6.03	0.085 (ms/cm) or S/m	9.42	256	25.59	
1255	800	40	128	17.1	6.04	0.081 ms/cm or S/m	9.15	213	25.60	
1305	1200	40	144	17.0	5.99	0.082 ms/cm or S/m	8.77	142	25.60	Dump flow cell
1310	1400	40	139	16.9	6.24	0.077 ms/cm or S/m	10.59	97.3	25.62	
1320	1800	40	140	17.0	6.26	0.078 ms/cm or S/m	10.60	90.7	25.61	
1325	2000	40	139	17.0	6.27	0.078 ms/cm or S/m	9.97	96.7	25.63	
1330	2200	40	139	17.1	6.27	0.079 ms/cm or S/m	9.94	98.0	25.62	
1335	2400	40	140	16.9	6.27	0.079 ms/cm or S/m	9.96	96.6	25.66	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

APPENDIX B ANALYTICAL LABORATORY DATA PACKAGES

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JUNE 2015

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Microbac

Laboratory Report Number: L15061450

Marie Simpson
Leidos
301 Laboratory Road
Oak Ridge, TN 37831

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 13 2015

David E. Vandenberg

David Vandenberg – Managing Director

State of Origin: NY
Accrediting Authority: Department of Health ID:10861
QAPP: DOD Ver 4.2 without flagging

Microbac

Lab Report #: L15061450
Lab Project #: 2870.008
Project Name: Gabreski
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.

The following discrepancies were noted:

Discrepancy	Resolution
MW04GW0313 06/23/15 @ 1911 (3 vials) were received and not listed on the chain of custody. We will log at the end of the SDG. CLS	Please proceed as noted. SLM

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #	Temp Required?
00112703	H	0.0		1002239553610004575000804245438952	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?	No
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 #: L15061450
Lab Project #: 2870.008
Project Name: Gabreski
Lab Contact: Stephanie Mossburg

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
TB057	L15061450-01	06/23/2015 07:30	06/25/2015 10:23
SW0620	L15061450-02	06/23/2015 13:10	06/25/2015 10:23
SW0620D	L15061450-03	06/23/2015 13:10	06/25/2015 10:23
SW0620MS	L15061450-04	06/23/2015 13:10	06/25/2015 10:23
SW0620MSD	L15061450-05	06/23/2015 13:10	06/25/2015 10:23
PZ407	L15061450-06	06/23/2015 14:20	06/25/2015 10:23
MW04GW04R04	L15061450-07	06/23/2015 16:25	06/25/2015 10:23
MW04GW0214	L15061450-08	06/23/2015 17:45	06/25/2015 10:23
SDW23AR03	L15061450-09	06/24/2015 11:15	06/25/2015 10:23
SW0718	L15061450-10	06/24/2015 09:34	06/25/2015 10:23
MW04GW0511	L15061450-11	06/24/2015 14:30	06/25/2015 10:23
MW04GW0112	L15061450-12	06/24/2015 12:55	06/25/2015 10:23
FB018	L15061450-13	06/24/2015 11:00	06/25/2015 10:23
ER034	L15061450-14	06/24/2015 11:10	06/25/2015 10:23
MW04GW0313	L15061450-15	06/23/2015 19:11	06/25/2015 10:23

Microbac REPORT L15061450
PREPARED FOR Leidos
WORK ID:

1.0 Summary Data 5
1.1 Narratives 6
1.2 Certificate of Analysis 9
2.0 Full Sample Data Package 37
2.1 Volatiles Data 38
2.1.1 Volatiles GCMS Data (8260) 39
2.1.1.1 Summary Data 40
2.1.1.2 QC Summary Data 75
2.1.1.3 Sample Data 118
2.1.1.4 Standards Data 354
2.1.1.5 Raw QC Data 445
3.0 Attachments 607

1.0 Summary Data

1.1 Narratives

Login Number: L15061450
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: chlorethane, vinyl acetate . Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: 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.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Other: Samples 11, were run at a dilution.

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: 101343
Approved By: Franci Bolden



1.2 Certificate of Analysis

Certificate of Analysis

Sample #:	L15061450-01	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	TB057	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 18:03
Collect Date:	06/23/2015 07:30	**Dilution:**	1	**File ID:**	8M405885
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	101	70	120	
4-Bromofluorobenzene	102	75	120	
Dibromofluoromethane	101	85	115	
Toluene-d8	103	85	120	

U	Not detected at or above adjusted sample detection limit

Sample #: L15061450-02
Client ID: SW0620
Matrix: Water
Workgroup #: WG529903
Collect Date: 06/23/2015 13:10
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC/ JDS
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 07/02/2015 19:55
Run Date: 07/03/2015 19:00
File ID: 8M405887

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.266	J	1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.369	J	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.265	J	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	104	70	120	
4-Bromofluorobenzene	105	75	120	
Dibromofluoromethane	101	85	115	
Toluene-d8	103	85	120	

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

Sample #: L15061450-03
Client ID: SW0620D
Matrix: Water
Workgroup #: WG529903
Collect Date: 06/23/2015 13:10
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC/ JDS
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 07/02/2015 19:55
Run Date: 07/03/2015 19:29
File ID: 8M405888

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.275	J	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.296	J	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.267	J	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	99.5	75	120	
Dibromofluoromethane	100	85	115	
Toluene-d8	104	85	120	

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 #:	L15061450-04	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	SW0620MS	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 16:37
Collect Date:	06/23/2015 13:10	**Dilution:**	1	**File ID:**	8M405882
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	20.6		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	21.1		1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	21.0		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	19.8		1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	19.3		1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	19.6		1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	21.6		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	20.6		1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	21.0		1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	21.7		1.00	0.500	0.250
2-Butanone	78-93-3	20.6		5.00	5.00	2.50
2-Hexanone	591-78-6	19.7		5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	19.4		5.00	5.00	2.50
Acetone	67-64-1	22.4		5.00	5.00	2.50
Benzene	71-43-2	20.9		1.00	0.250	0.125
Bromodichloromethane	75-27-4	20.4		1.00	0.500	0.250
Bromoform	75-25-2	18.8		1.00	1.00	0.500
Bromomethane	74-83-9	21.7		1.00	1.00	0.500
Carbon disulfide	75-15-0	19.6		1.00	1.00	0.500
Carbon tetrachloride	56-23-5	20.4		1.00	0.500	0.250
Chlorobenzene	108-90-7	19.0		1.00	0.250	0.125
Chloroethane	75-00-3	23.6		1.00	1.00	0.500
Chloroform	67-66-3	20.6		1.00	0.250	0.125
Chloromethane	74-87-3	20.6		1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	21.1		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	21.8		1.00	0.500	0.250
Cyclohexane	110-82-7	18.5		5.00	2.00	1.00
Chlorodibromomethane	124-48-1	18.6		1.00	0.500	0.250
Ethylbenzene	100-41-4	20.6		1.00	0.500	0.250
Isopropylbenzene	98-82-8	20.4		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	40.5		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	19.4		5.00	2.00	1.00

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methylene chloride	75-09-2	19.9		1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	20.9		1.00	1.00	0.500
n-Butylbenzene	104-51-8	21.3		1.00	0.500	0.250
n-Propylbenzene	103-65-1	20.3		1.00	0.250	0.125
Naphthalene	91-20-3	19.9		1.00	0.400	0.200
o-Xylene	95-47-6	20.2		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	20.0		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	20.5		1.00	0.500	0.250
Styrene	100-42-5	21.8		1.00	0.250	0.125
tert-Butylbenzene	98-06-6	19.8		1.00	0.500	0.250
Tetrachloroethene	127-18-4	20.9		1.00	0.500	0.250
Toluene	108-88-3	21.9		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	20.7		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	20.2		1.00	1.00	0.500
Trichloroethene	79-01-6	21.6		1.00	0.500	0.250
Vinyl acetate	108-05-4	30.9		5.00	5.00	2.50
Vinyl chloride	75-01-4	20.6		1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	99.5	70	120	
4-Bromofluorobenzene	98.4	75	120	
Dibromofluoromethane	98.8	85	115	
Toluene-d8	103	85	120	

Sample #: L15061450-05
Client ID: SW0620MSD
Matrix: Water
Workgroup #: WG529903
Collect Date: 06/23/2015 13:10
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC/ JDS
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 07/02/2015 19:55
Run Date: 07/03/2015 17:06
File ID: 8M405883

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	20.7		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	21.1		1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	20.4		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	20.0		1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	19.5		1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	20.5		1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	22.5		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	20.4		1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloropropane	78-87-5	20.6		1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	23.0		1.00	0.500	0.250
2-Butanone	78-93-3	20.7		5.00	5.00	2.50
2-Hexanone	591-78-6	19.6		5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	19.2		5.00	5.00	2.50
Acetone	67-64-1	23.5		5.00	5.00	2.50
Benzene	71-43-2	21.0		1.00	0.250	0.125
Bromodichloromethane	75-27-4	20.5		1.00	0.500	0.250
Bromoform	75-25-2	18.7		1.00	1.00	0.500
Bromomethane	74-83-9	22.4		1.00	1.00	0.500
Carbon disulfide	75-15-0	19.6		1.00	1.00	0.500
Carbon tetrachloride	56-23-5	20.0		1.00	0.500	0.250
Chlorobenzene	108-90-7	19.1		1.00	0.250	0.125
Chloroethane	75-00-3	23.6		1.00	1.00	0.500
Chloroform	67-66-3	20.7		1.00	0.250	0.125
Chloromethane	74-87-3	20.3		1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	21.5		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	21.7		1.00	0.500	0.250
Cyclohexane	110-82-7	18.6		5.00	2.00	1.00
Chlorodibromomethane	124-48-1	18.7		1.00	0.500	0.250
Ethylbenzene	100-41-4	20.2		1.00	0.500	0.250
Isopropylbenzene	98-82-8	20.1		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	40.6		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	19.5		5.00	2.00	1.00
Methylene chloride	75-09-2	20.3		1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	21.1		1.00	1.00	0.500
n-Butylbenzene	104-51-8	22.2		1.00	0.500	0.250
n-Propylbenzene	103-65-1	21.1		1.00	0.250	0.125
Naphthalene	91-20-3	20.9		1.00	0.400	0.200
o-Xylene	95-47-6	19.5		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	20.8		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	21.5		1.00	0.500	0.250
Styrene	100-42-5	21.5		1.00	0.250	0.125
tert-Butylbenzene	98-06-6	20.2		1.00	0.500	0.250
Tetrachloroethene	127-18-4	20.7		1.00	0.500	0.250
Toluene	108-88-3	21.6		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	21.4		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	20.2		1.00	1.00	0.500
Trichloroethene	79-01-6	21.5		1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Vinyl acetate	108-05-4	30.4		5.00	5.00	2.50
Vinyl chloride	75-01-4	20.7		1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	99.8	70	120	
4-Bromofluorobenzene	103	75	120	
Dibromofluoromethane	100	85	115	
Toluene-d8	104	85	120	

Sample #: L15061450-06
Client ID: PZ407
Matrix: Water
Workgroup #: WG529903
Collect Date: 06/23/2015 14:20
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC/ JDS
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 07/02/2015 19:55
Run Date: 07/03/2015 19:57
File ID: 8M405889

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	101	75	120	
Dibromofluoromethane	102	85	115	
Toluene-d8	102	85	120	

U	Not detected at or above adjusted sample detection limit

Certificate of Analysis

Sample #:	L15061450-07	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	MW04GW04R04	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 20:26
Collect Date:	06/23/2015 16:25	**Dilution:**	1	**File ID:**	8M405890
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.624	J	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	8.68		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	6.42		1.00	0.500	0.250
2-Butanone	78-93-3	7.80		5.00	5.00	2.50
2-Hexanone	591-78-6	5.58		5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	7.28		5.00	5.00	2.50
Acetone	67-64-1	27.0		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	1.41	J	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	3.13		1.00	0.500	0.250
Isopropylbenzene	98-82-8	1.28		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	23.8		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	4.01	J	5.00	2.00	1.00

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	1.25		1.00	0.500	0.250
n-Propylbenzene	103-65-1	1.11		1.00	0.250	0.125
Naphthalene	91-20-3	0.749	J	1.00	0.400	0.200
o-Xylene	95-47-6	15.7		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.612	J	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.829	J	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	5.72		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	100	70	120	
4-Bromofluorobenzene	99.1	75	120	
Dibromofluoromethane	98.9	85	115	
Toluene-d8	102	85	120	

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

Sample #: L15061450-08
Client ID: MW04GW0214
Matrix: Water
Workgroup #: WG529903
Collect Date: 06/23/2015 17:45
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC/ JDS
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 07/02/2015 19:55
Run Date: 07/03/2015 20:54
File ID: 8M405891

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.925	J	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2,4-Trimethylbenzene	95-63-6	4.82		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	4.64		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.812	J	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.932	J	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	4.16		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	3.77	J	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	2.49		1.00	0.500	0.250
n-Propylbenzene	103-65-1	1.40		1.00	0.250	0.125
Naphthalene	91-20-3	0.728	J	1.00	0.400	0.200
o-Xylene	95-47-6	2.27		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	1.45		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	1.42		1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	102	70	120	
4-Bromofluorobenzene	104	75	120	
Dibromofluoromethane	102	85	115	
Toluene-d8	102	85	120	

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

Sample #: L15061450-09
Client ID: SDW23AR03
Matrix: Water
Workgroup #: WG529903
Collect Date: 06/24/2015 11:15
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC/ JDS
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 07/02/2015 19:55
Run Date: 07/03/2015 21:23
File ID: 8M405892

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	4.86	J	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	100	70	120	
4-Bromofluorobenzene	102	75	120	
Dibromofluoromethane	100	85	115	
Toluene-d8	104	85	120	

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 #:	L15061450-10	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	SW0718	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 21:52
Collect Date:	06/24/2015 09:34	**Dilution:**	1	**File ID:**	8M405893
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	4.38		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	2.58		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	7.24		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.589	J	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.796	J	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	3.02		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.851	J	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.785	J	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	104	70	120	
4-Bromofluorobenzene	101	75	120	
Dibromofluoromethane	103	85	115	
Toluene-d8	104	85	120	

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

Sample #: L15061450-11
Client ID: MW04GW0511
Matrix: Water
Workgroup #: WG529903
Collect Date: 06/24/2015 14:30
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC/ JDS
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 07/02/2015 19:55
Run Date: 07/03/2015 22:20
File ID: 8M405894

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	1.90		1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2,4-Trimethylbenzene	95-63-6	342	I	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	189		1.00	0.500	0.250
2-Butanone	78-93-3	7.14		5.00	5.00	2.50
2-Hexanone	591-78-6	21.4		5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	12.4		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	1.57	J	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	12.3		1.00	0.500	0.250
Isopropylbenzene	98-82-8	40.8		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	110		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	3.96	J	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	34.5		1.00	0.500	0.250
n-Propylbenzene	103-65-1	56.2		1.00	0.250	0.125
Naphthalene	91-20-3	42.0		1.00	0.400	0.200
o-Xylene	95-47-6	28.8		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	26.6		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	18.5		1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	2.95		1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	101	70	120	
4-Bromofluorobenzene	94.9	75	120	
Dibromofluoromethane	101	85	115	
Toluene-d8	104	85	120	

I	Semiquantitative result (out of instrument calibration 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 #: L15061450-11
Client ID: MW04GW0511
Matrix: Water
Workgroup #: WG530076
Collect Date: 06/24/2015 14:30
Sample Tag: DL01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC/ JDS
Dilution: 2.5
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 07/02/2015 19:55
Run Date: 07/06/2015 19:22
File ID: 8M405917

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	1.25	U	2.50	1.25	0.625
1,1,2,2-Tetrachloroethane	79-34-5	1.32	J	2.50	1.00	0.500
1,1,2-Trichloroethane	79-00-5	1.25	U	2.50	1.25	0.625
1,1-Dichloroethane	75-34-3	0.626	U	2.50	0.626	0.313
1,1-Dichloroethene	75-35-4	2.50	U	2.50	2.50	1.25
1,2,4-Trichlorobenzene	120-82-1	1.00	U	2.50	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	397		2.50	1.25	0.625
1,2-Dichloroethane	107-06-2	1.25	U	2.50	1.25	0.625
1,2-Dichloropropane	78-87-5	1.00	U	2.50	1.00	0.500
1,3,5-Trimethylbenzene	108-67-8	173		2.50	1.25	0.625
2-Butanone	78-93-3	12.5	U	12.5	12.5	6.25
2-Hexanone	591-78-6	20.5		12.5	12.5	6.25
4-Methyl-2-pentanone	108-10-1	12.5	U	12.5	12.5	6.25
Acetone	67-64-1	12.5	U	12.5	12.5	6.25
Benzene	71-43-2	0.626	U	2.50	0.626	0.313
Bromodichloromethane	75-27-4	1.25	U	2.50	1.25	0.625
Bromoform	75-25-2	2.50	U	2.50	2.50	1.25
Bromomethane	74-83-9	2.50	U	2.50	2.50	1.25

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Carbon disulfide	75-15-0	2.50	U	2.50	2.50	1.25
Carbon tetrachloride	56-23-5	1.25	U	2.50	1.25	0.625
Chlorobenzene	108-90-7	0.626	U	2.50	0.626	0.313
Chloroethane	75-00-3	2.50	U	2.50	2.50	1.25
Chloroform	67-66-3	0.626	U	2.50	0.626	0.313
Chloromethane	74-87-3	2.50	U	2.50	2.50	1.25
cis-1,2-Dichloroethene	156-59-2	1.25	U	2.50	1.25	0.625
cis-1,3-Dichloropropene	10061-01-5	1.25	U	2.50	1.25	0.625
Cyclohexane	110-82-7	2.78	J	12.5	5.00	2.50
Chlorodibromomethane	124-48-1	1.25	U	2.50	1.25	0.625
Ethylbenzene	100-41-4	11.5		2.50	1.25	0.625
Isopropylbenzene	98-82-8	35.3		2.50	1.25	0.625
m-,p-Xylene	179601-23-1	92.4		2.50	2.50	1.25
Methyl Cyclohexane	108-87-2	4.74	J	12.5	5.00	2.50
Methylene chloride	75-09-2	1.25	U	2.50	1.25	0.625
Methyl t-butyl ether (MTBE)	1634-04-4	2.50	U	2.50	2.50	1.25
n-Butylbenzene	104-51-8	32.1		2.50	1.25	0.625
n-Propylbenzene	103-65-1	50.6		2.50	0.626	0.313
Naphthalene	91-20-3	37.2		2.50	1.00	0.500
o-Xylene	95-47-6	26.3		2.50	1.25	0.625
p-Isopropyltoluene	99-87-6	24.9		2.50	1.25	0.625
sec-Butylbenzene	135-98-8	17.6		2.50	1.25	0.625
Styrene	100-42-5	0.626	U	2.50	0.626	0.313
tert-Butylbenzene	98-06-6	2.71		2.50	1.25	0.625
Tetrachloroethene	127-18-4	1.25	U	2.50	1.25	0.625
Toluene	108-88-3	1.25	U	2.50	1.25	0.625
trans-1,2-Dichloroethene	156-60-5	1.25	U	2.50	1.25	0.625
trans-1,3-Dichloropropene	10061-02-6	2.50	U	2.50	2.50	1.25
Trichloroethene	79-01-6	1.25	U	2.50	1.25	0.625
Vinyl acetate	108-05-4	12.5	U	12.5	12.5	6.25
Vinyl chloride	75-01-4	1.25	U	2.50	1.25	0.625

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	101	70	120	
4-Bromofluorobenzene	94.0	75	120	
Dibromofluoromethane	103	85	115	
Toluene-d8	103	85	120	

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 #:	L15061450-12	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	MW04GW0112	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 22:49
Collect Date:	06/24/2015 12:55	**Dilution:**	1	**File ID:**	8M405895
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.708	J	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	20.4		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	19.7		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	10.1		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	1.71		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.42	J	5.00	2.00	1.00

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	4.93		1.00	0.500	0.250
n-Propylbenzene	103-65-1	2.78		1.00	0.250	0.125
Naphthalene	91-20-3	1.06		1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	2.62		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	3.47		1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.808	J	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	101	70	120	
4-Bromofluorobenzene	99.7	75	120	
Dibromofluoromethane	99.8	85	115	
Toluene-d8	104	85	120	

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

Sample #: L15061450-13
Client ID: FB018
Matrix: Water
Workgroup #: WG529903
Collect Date: 06/24/2015 11:00
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC/ JDS
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 07/02/2015 19:55
Run Date: 07/03/2015 23:18
File ID: 8M405896

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	4.76	J	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	100	70	120	
4-Bromofluorobenzene	103	75	120	
Dibromofluoromethane	99.0	85	115	
Toluene-d8	103	85	120	

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

Sample #: L15061450-14
Client ID: ER034
Matrix: Water
Workgroup #: WG529903
Collect Date: 06/24/2015 11:10
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC/ JDS
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 07/02/2015 19:55
Run Date: 07/03/2015 23:47
File ID: 8M405897

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	4.61	J	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	104	70	120	
4-Bromofluorobenzene	104	75	120	
Dibromofluoromethane	102	85	115	
Toluene-d8	103	85	120	

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 #:	L15061450-15	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	MW04GW0313	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/04/2015 00:15
Collect Date:	06/23/2015 19:11	**Dilution:**	1	**File ID:**	8M405898
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	5.82		1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	149		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	68.3		1.00	0.500	0.250
2-Butanone	78-93-3	18.8		5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	63.3		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	10.2		5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	66.1		1.00	0.500	0.250
Isopropylbenzene	98-82-8	20.0		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	348		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	32.9		5.00	2.00	1.00

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	11.3		1.00	0.500	0.250
n-Propylbenzene	103-65-1	17.3		1.00	0.250	0.125
Naphthalene	91-20-3	22.9		1.00	0.400	0.200
o-Xylene	95-47-6	174		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	7.84		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	9.47		1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.667	J	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.254	J	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	103	70	120	
4-Bromofluorobenzene	101	75	120	
Dibromofluoromethane	101	85	115	
Toluene-d8	103	85	120	

J	The analyte was positively identified, but the quantitation was below the RL
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: L15061450
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: chlorethane, vinyl acetate . Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: 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.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Other: Samples 11, were run at a dilution.

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: 101343
Approved By: Franci Bolden



Certificate of Analysis

Sample #:	L15061450-01	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	TB057	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 18:03
Collect Date:	06/23/2015 07:30	**Dilution:**	1	**File ID:**	8M405885
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	101	70	120	
4-Bromofluorobenzene	102	75	120	
Dibromofluoromethane	101	85	115	
Toluene-d8	103	85	120	

U	Not detected at or above adjusted sample detection limit

Certificate of Analysis

Sample #:	L15061450-02	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	SW0620	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 19:00
Collect Date:	06/23/2015 13:10	**Dilution:**	1	**File ID:**	8M405887
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.266	J	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.369	J	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.265	J	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	104	70	120	
4-Bromofluorobenzene	105	75	120	
Dibromofluoromethane	101	85	115	
Toluene-d8	103	85	120	

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 #:	L15061450-03	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	SW0620D	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 19:29
Collect Date:	06/23/2015 13:10	**Dilution:**	1	**File ID:**	8M405888
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.275	J	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.296	J	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.267	J	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	99.5	75	120	
Dibromofluoromethane	100	85	115	
Toluene-d8	104	85	120	

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 #:	L15061450-04	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	SW0620MS	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 16:37
Collect Date:	06/23/2015 13:10	**Dilution:**	1	**File ID:**	8M405882
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	20.6		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	21.1		1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	21.0		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	19.8		1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	19.3		1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	19.6		1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	21.6		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	20.6		1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	21.0		1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	21.7		1.00	0.500	0.250
2-Butanone	78-93-3	20.6		5.00	5.00	2.50
2-Hexanone	591-78-6	19.7		5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	19.4		5.00	5.00	2.50
Acetone	67-64-1	22.4		5.00	5.00	2.50
Benzene	71-43-2	20.9		1.00	0.250	0.125
Bromodichloromethane	75-27-4	20.4		1.00	0.500	0.250
Bromoform	75-25-2	18.8		1.00	1.00	0.500
Bromomethane	74-83-9	21.7		1.00	1.00	0.500
Carbon disulfide	75-15-0	19.6		1.00	1.00	0.500
Carbon tetrachloride	56-23-5	20.4		1.00	0.500	0.250
Chlorobenzene	108-90-7	19.0		1.00	0.250	0.125
Chloroethane	75-00-3	23.6		1.00	1.00	0.500
Chloroform	67-66-3	20.6		1.00	0.250	0.125
Chloromethane	74-87-3	20.6		1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	21.1		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	21.8		1.00	0.500	0.250
Cyclohexane	110-82-7	18.5		5.00	2.00	1.00
Chlorodibromomethane	124-48-1	18.6		1.00	0.500	0.250
Ethylbenzene	100-41-4	20.6		1.00	0.500	0.250
Isopropylbenzene	98-82-8	20.4		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	40.5		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	19.4		5.00	2.00	1.00
Methylene chloride	75-09-2	19.9		1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	20.9		1.00	1.00	0.500
n-Butylbenzene	104-51-8	21.3		1.00	0.500	0.250
n-Propylbenzene	103-65-1	20.3		1.00	0.250	0.125
Naphthalene	91-20-3	19.9		1.00	0.400	0.200
o-Xylene	95-47-6	20.2		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	20.0		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	20.5		1.00	0.500	0.250
Styrene	100-42-5	21.8		1.00	0.250	0.125
tert-Butylbenzene	98-06-6	19.8		1.00	0.500	0.250
Tetrachloroethene	127-18-4	20.9		1.00	0.500	0.250
Toluene	108-88-3	21.9		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	20.7		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	20.2		1.00	1.00	0.500
Trichloroethene	79-01-6	21.6		1.00	0.500	0.250
Vinyl acetate	108-05-4	30.9		5.00	5.00	2.50
Vinyl chloride	75-01-4	20.6		1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	99.5	70	120	
4-Bromofluorobenzene	98.4	75	120	
Dibromofluoromethane	98.8	85	115	
Toluene-d8	103	85	120	

Certificate of Analysis

Sample #: L15061450-05
Client ID: SW0620MSD
Matrix: Water
Workgroup #: WG529903
Collect Date: 06/23/2015 13:10
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC/ JDS
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 07/02/2015 19:55
Run Date: 07/03/2015 17:06
File ID: 8M405883

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	20.7		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	21.1		1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	20.4		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	20.0		1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	19.5		1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	20.5		1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	22.5		1.00	0.500	0.250

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloroethane	107-06-2	20.4		1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	20.6		1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	23.0		1.00	0.500	0.250
2-Butanone	78-93-3	20.7		5.00	5.00	2.50
2-Hexanone	591-78-6	19.6		5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	19.2		5.00	5.00	2.50
Acetone	67-64-1	23.5		5.00	5.00	2.50
Benzene	71-43-2	21.0		1.00	0.250	0.125
Bromodichloromethane	75-27-4	20.5		1.00	0.500	0.250
Bromoform	75-25-2	18.7		1.00	1.00	0.500
Bromomethane	74-83-9	22.4		1.00	1.00	0.500
Carbon disulfide	75-15-0	19.6		1.00	1.00	0.500
Carbon tetrachloride	56-23-5	20.0		1.00	0.500	0.250
Chlorobenzene	108-90-7	19.1		1.00	0.250	0.125
Chloroethane	75-00-3	23.6		1.00	1.00	0.500
Chloroform	67-66-3	20.7		1.00	0.250	0.125
Chloromethane	74-87-3	20.3		1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	21.5		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	21.7		1.00	0.500	0.250
Cyclohexane	110-82-7	18.6		5.00	2.00	1.00
Chlorodibromomethane	124-48-1	18.7		1.00	0.500	0.250
Ethylbenzene	100-41-4	20.2		1.00	0.500	0.250
Isopropylbenzene	98-82-8	20.1		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	40.6		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	19.5		5.00	2.00	1.00
Methylene chloride	75-09-2	20.3		1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	21.1		1.00	1.00	0.500
n-Butylbenzene	104-51-8	22.2		1.00	0.500	0.250
n-Propylbenzene	103-65-1	21.1		1.00	0.250	0.125
Naphthalene	91-20-3	20.9		1.00	0.400	0.200
o-Xylene	95-47-6	19.5		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	20.8		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	21.5		1.00	0.500	0.250
Styrene	100-42-5	21.5		1.00	0.250	0.125
tert-Butylbenzene	98-06-6	20.2		1.00	0.500	0.250
Tetrachloroethene	127-18-4	20.7		1.00	0.500	0.250
Toluene	108-88-3	21.6		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	21.4		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	20.2		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Trichloroethene	79-01-6	21.5		1.00	0.500	0.250
Vinyl acetate	108-05-4	30.4		5.00	5.00	2.50
Vinyl chloride	75-01-4	20.7		1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	99.8	70	120	
4-Bromofluorobenzene	103	75	120	
Dibromofluoromethane	100	85	115	
Toluene-d8	104	85	120	

Certificate of Analysis

Sample #: L15061450-06
Client ID: PZ407
Matrix: Water
Workgroup #: WG529903
Collect Date: 06/23/2015 14:20
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC/ JDS
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 07/02/2015 19:55
Run Date: 07/03/2015 19:57
File ID: 8M405889

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	101	75	120	
Dibromofluoromethane	102	85	115	
Toluene-d8	102	85	120	

U	Not detected at or above adjusted sample detection limit

Certificate of Analysis

Sample #:	L15061450-07	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	MW04GW04R04	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 20:26
Collect Date:	06/23/2015 16:25	**Dilution:**	1	**File ID:**	8M405890
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.624	J	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	8.68		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	6.42		1.00	0.500	0.250
2-Butanone	78-93-3	7.80		5.00	5.00	2.50
2-Hexanone	591-78-6	5.58		5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	7.28		5.00	5.00	2.50
Acetone	67-64-1	27.0		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	1.41	J	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	3.13		1.00	0.500	0.250
Isopropylbenzene	98-82-8	1.28		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	23.8		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	4.01	J	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	1.25		1.00	0.500	0.250
n-Propylbenzene	103-65-1	1.11		1.00	0.250	0.125
Naphthalene	91-20-3	0.749	J	1.00	0.400	0.200
o-Xylene	95-47-6	15.7		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.612	J	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.829	J	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	5.72		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	100	70	120	
4-Bromofluorobenzene	99.1	75	120	
Dibromofluoromethane	98.9	85	115	
Toluene-d8	102	85	120	

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 #:	L15061450-08	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	MW04GW0214	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 20:54
Collect Date:	06/23/2015 17:45	**Dilution:**	1	**File ID:**	8M405891
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.925	J	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	4.82		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	4.64		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.812	J	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.932	J	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	4.16		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	3.77	J	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	2.49		1.00	0.500	0.250
n-Propylbenzene	103-65-1	1.40		1.00	0.250	0.125
Naphthalene	91-20-3	0.728	J	1.00	0.400	0.200
o-Xylene	95-47-6	2.27		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	1.45		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	1.42		1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	102	70	120	
4-Bromofluorobenzene	104	75	120	
Dibromofluoromethane	102	85	115	
Toluene-d8	102	85	120	

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 #:	L15061450-09	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	SDW23AR03	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 21:23
Collect Date:	06/24/2015 11:15	**Dilution:**	1	**File ID:**	8M405892
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	4.86	J	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	100	70	120	
4-Bromofluorobenzene	102	75	120	
Dibromofluoromethane	100	85	115	
Toluene-d8	104	85	120	

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 #:	L15061450-10	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	SW0718	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 21:52
Collect Date:	06/24/2015 09:34	**Dilution:**	1	**File ID:**	8M405893
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	4.38		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	2.58		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	7.24		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.589	J	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.796	J	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	3.02		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.851	J	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.785	J	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	104	70	120	
4-Bromofluorobenzene	101	75	120	
Dibromofluoromethane	103	85	115	
Toluene-d8	104	85	120	

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 #:	L15061450-11	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	MW04GW0511	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 22:20
Collect Date:	06/24/2015 14:30	**Dilution:**	1	**File ID:**	8M405894
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	1.90		1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	342	I	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	189		1.00	0.500	0.250
2-Butanone	78-93-3	7.14		5.00	5.00	2.50
2-Hexanone	591-78-6	21.4		5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	12.4		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	1.57	J	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	12.3		1.00	0.500	0.250
Isopropylbenzene	98-82-8	40.8		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	110		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	3.96	J	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	34.5		1.00	0.500	0.250
n-Propylbenzene	103-65-1	56.2		1.00	0.250	0.125
Naphthalene	91-20-3	42.0		1.00	0.400	0.200
o-Xylene	95-47-6	28.8		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	26.6		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	18.5		1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	2.95		1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	101	70	120	
4-Bromofluorobenzene	94.9	75	120	
Dibromofluoromethane	101	85	115	
Toluene-d8	104	85	120	

I	Semiquantitative result (out of instrument calibration range)
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 #:	L15061450-11	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	MW04GW0511	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG530076	**Analyst:**	ADC/ JDS	**Run Date:**	07/06/2015 19:22
Collect Date:	06/24/2015 14:30	**Dilution:**	2.5	**File ID:**	8M405917
Sample Tag:	DL01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	1.25	U	2.50	1.25	0.625
1,1,2,2-Tetrachloroethane	79-34-5	1.32	J	2.50	1.00	0.500
1,1,2-Trichloroethane	79-00-5	1.25	U	2.50	1.25	0.625
1,1-Dichloroethane	75-34-3	0.626	U	2.50	0.626	0.313
1,1-Dichloroethene	75-35-4	2.50	U	2.50	2.50	1.25
1,2,4-Trichlorobenzene	120-82-1	1.00	U	2.50	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	397		2.50	1.25	0.625
1,2-Dichloroethane	107-06-2	1.25	U	2.50	1.25	0.625
1,2-Dichloropropane	78-87-5	1.00	U	2.50	1.00	0.500
1,3,5-Trimethylbenzene	108-67-8	173		2.50	1.25	0.625
2-Butanone	78-93-3	12.5	U	12.5	12.5	6.25
2-Hexanone	591-78-6	20.5		12.5	12.5	6.25
4-Methyl-2-pentanone	108-10-1	12.5	U	12.5	12.5	6.25
Acetone	67-64-1	12.5	U	12.5	12.5	6.25
Benzene	71-43-2	0.626	U	2.50	0.626	0.313
Bromodichloromethane	75-27-4	1.25	U	2.50	1.25	0.625
Bromoform	75-25-2	2.50	U	2.50	2.50	1.25
Bromomethane	74-83-9	2.50	U	2.50	2.50	1.25
Carbon disulfide	75-15-0	2.50	U	2.50	2.50	1.25
Carbon tetrachloride	56-23-5	1.25	U	2.50	1.25	0.625
Chlorobenzene	108-90-7	0.626	U	2.50	0.626	0.313
Chloroethane	75-00-3	2.50	U	2.50	2.50	1.25
Chloroform	67-66-3	0.626	U	2.50	0.626	0.313
Chloromethane	74-87-3	2.50	U	2.50	2.50	1.25
cis-1,2-Dichloroethene	156-59-2	1.25	U	2.50	1.25	0.625
cis-1,3-Dichloropropene	10061-01-5	1.25	U	2.50	1.25	0.625
Cyclohexane	110-82-7	2.78	J	12.5	5.00	2.50
Chlorodibromomethane	124-48-1	1.25	U	2.50	1.25	0.625
Ethylbenzene	100-41-4	11.5		2.50	1.25	0.625
Isopropylbenzene	98-82-8	35.3		2.50	1.25	0.625
m-,p-Xylene	179601-23-1	92.4		2.50	2.50	1.25

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	4.74	J	12.5	5.00	2.50
Methylene chloride	75-09-2	1.25	U	2.50	1.25	0.625
Methyl t-butyl ether (MTBE)	1634-04-4	2.50	U	2.50	2.50	1.25
n-Butylbenzene	104-51-8	32.1		2.50	1.25	0.625
n-Propylbenzene	103-65-1	50.6		2.50	0.626	0.313
Naphthalene	91-20-3	37.2		2.50	1.00	0.500
o-Xylene	95-47-6	26.3		2.50	1.25	0.625
p-Isopropyltoluene	99-87-6	24.9		2.50	1.25	0.625
sec-Butylbenzene	135-98-8	17.6		2.50	1.25	0.625
Styrene	100-42-5	0.626	U	2.50	0.626	0.313
tert-Butylbenzene	98-06-6	2.71		2.50	1.25	0.625
Tetrachloroethene	127-18-4	1.25	U	2.50	1.25	0.625
Toluene	108-88-3	1.25	U	2.50	1.25	0.625
trans-1,2-Dichloroethene	156-60-5	1.25	U	2.50	1.25	0.625
trans-1,3-Dichloropropene	10061-02-6	2.50	U	2.50	2.50	1.25
Trichloroethene	79-01-6	1.25	U	2.50	1.25	0.625
Vinyl acetate	108-05-4	12.5	U	12.5	12.5	6.25
Vinyl chloride	75-01-4	1.25	U	2.50	1.25	0.625

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	101	70	120	
4-Bromofluorobenzene	94.0	75	120	
Dibromofluoromethane	103	85	115	
Toluene-d8	103	85	120	

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 #:	L15061450-12	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	MW04GW0112	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 22:49
Collect Date:	06/24/2015 12:55	**Dilution:**	1	**File ID:**	8M405895
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.708	J	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	20.4		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	19.7		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	10.1		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	1.71		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.42	J	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	4.93		1.00	0.500	0.250
n-Propylbenzene	103-65-1	2.78		1.00	0.250	0.125
Naphthalene	91-20-3	1.06		1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	2.62		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	3.47		1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.808	J	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	101	70	120	
4-Bromofluorobenzene	99.7	75	120	
Dibromofluoromethane	99.8	85	115	
Toluene-d8	104	85	120	

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 #:	L15061450-13	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	FB018	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 23:18
Collect Date:	06/24/2015 11:00	**Dilution:**	1	**File ID:**	8M405896
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	4.76	J	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	100	70	120	
4-Bromofluorobenzene	103	75	120	
Dibromofluoromethane	99.0	85	115	
Toluene-d8	103	85	120	

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 #:	L15061450-14	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	ER034	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/03/2015 23:47
Collect Date:	06/24/2015 11:10	**Dilution:**	1	**File ID:**	8M405897
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	4.61	J	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	104	70	120	
4-Bromofluorobenzene	104	75	120	
Dibromofluoromethane	102	85	115	
Toluene-d8	103	85	120	

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 #:	L15061450-15	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	MW04GW0313	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	07/02/2015 19:55
Workgroup #:	WG529903	**Analyst:**	ADC/ JDS	**Run Date:**	07/04/2015 00:15
Collect Date:	06/23/2015 19:11	**Dilution:**	1	**File ID:**	8M405898
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	5.82		1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	149		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	68.3		1.00	0.500	0.250
2-Butanone	78-93-3	18.8		5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	63.3		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	10.2		5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	66.1		1.00	0.500	0.250
Isopropylbenzene	98-82-8	20.0		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	348		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	32.9		5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	11.3		1.00	0.500	0.250
n-Propylbenzene	103-65-1	17.3		1.00	0.250	0.125
Naphthalene	91-20-3	22.9		1.00	0.400	0.200
o-Xylene	95-47-6	174		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	7.84		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	9.47		1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.667	J	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.254	J	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	103	70	120	
4-Bromofluorobenzene	101	75	120	
Dibromofluoromethane	101	85	115	
Toluene-d8	103	85	120	

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

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Instrument Run Log

Instrument: HPMS8 Dataset: 100214
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 19
Method: 624 SOP: MSV10 Rev: 12
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 16
Maintenance Log ID: 51878

Internal Standard: STD66600 Surrogate Standard: STD66600
CCV: STD66818; STD66687 LCS: STD66693; STD66677 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG494714; WG494980

Comments: File # 8m400369 and 70 were skipped and not used.

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M400354	RINSE	NA	1	1		10/02/14 10:24
8M400355	WG494714-01 50ng BFB STD 8260	NA	1	1	STD66476	10/02/14 11:16
8M400356	WG494714-01 50ng BFB STD 8260	NA	1	1	STD66476	10/02/14 11:33
8M400357	WG494714-01 50ng BFB STD 8260	NA	1	1	STD66476	10/02/14 11:58
8M400358	WG494714-02 5ug/L STD A9/FOO	NA	1	1	STD66818	10/02/14 12:24
8M400359	WG494714-03 20ug/L STD A9/FOO	NA	1	1	STD66818	10/02/14 12:53
8M400360	WG494714-04 50ug/L STD A9/FOO	NA	1	1	STD66818	10/02/14 13:22
8M400361	WG494714-05 100ug/L STD A9/FOO	NA	1	1	STD66818	10/02/14 13:51
8M400362	WG494714-06 200ug/L STD A9/FOO	NA	1	1	STD66818	10/02/14 14:19
8M400363	WG494714-07 300ug/L STD A9/FOO	NA	1	1	STD66818	10/02/14 14:48
8M400364	WG494714-08 400ug/L STD A9/FOO	NA	1	1	STD66818	10/02/14 15:16
8M400365	WG494714-09 500ug/L STD A9/FOO	NA	1	1	STD66818	10/02/14 15:45
8M400366	RINSE	NA	1	1		10/02/14 16:14
8M400367	WG494714-10 100ug/L ALT SRC STD A9/F	NA	1	1	STD66677	10/02/14 16:47
8M400368	WG494979-01 50ug/L CCV STD 8260	NA	1	1	STD66687	10/02/14 17:22
8M400371	WG494980-02 20ug/L LCS STD 624	NA	2	1	STD66693	10/02/14 17:51
8M400372	WG494980-03 20ug/L LCSDUP STD 624	NA	2	1	STD66693	10/02/14 18:20
8M400373	RINSE	NA	2	1		10/02/14 18:49
8M400374	WG494980-01 VBLK1002 BLANK STD 624	NA	2	1		10/02/14 19:18
8M400375	L14100004-01 LOD 826-SPE A9/FOO	NA	1	1		10/02/14 19:47
8M400376	L14100006-01 LOQ 826-SPE A9/FOO	NA	1	1		10/02/14 20:16
8M400377	L14100004-01 LOD 826-SPE	NA	1	1		10/02/14 20:45
8M400378	L14100006-01 LOQ 826-SPE	NA	1	1		10/02/14 21:14
8M400379	L14100004-01 LOD 826-SPE	NA	1	1		10/02/14 21:42
8M400380	L14100006-01 LOQ 826-SPE	NA	1	1		10/02/14 22:12
8M400381	L14100098-10 A 624-SPE	5	2	1		10/02/14 22:40
8M400382	L14100089-02 A 624-SPE	5	2	1		10/02/14 23:09
8M400383	L14100098-04 A 624-SPE	<2	2	1		10/02/14 23:38
8M400384	L14100098-05 A 624-SPE	<2	2	1		10/03/14 00:06
8M400385	L14100098-06 A 624-SPE	<2	2	1		10/03/14 00:36
8M400386	L14100098-07 A 624-SPE	<2	2	1		10/03/14 01:06
8M400387	L14100098-08 A 624-SPE	<2	2	1		10/03/14 01:34
8M400388	L14100098-09 A 624-SPE	<2	2	1		10/03/14 02:04
8M400389	L14100110-01 A 624-SPE2	<2	2	1		10/03/14 02:32

Approved: October 03, 2014



Page: 1

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Instrument Run Log

Instrument: HPMS8 Dataset: 100214
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 19
Method: 624 SOP: MSV10 Rev: 12
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 16
Maintenance Log ID: 51878

Internal Standard: STD66600 Surrogate Standard: STD66600
CCV: STD66818; STD66687 LCS: STD66693; STD66677 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG494714; WG494980

Comments: File # 8m400369 and 70 were skipped and not used.

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M400390	L14100110-02 A 624-SPE1	<2	2	1		10/03/14 03:02
8M400391	RINSE	NA	1	1		10/03/14 03:30
8M400392	RINSE	NA	1	1		10/03/14 03:59

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
File ID: 8M400355				
	Tune failed, DNR.			
3	X			
File ID: 8M400356				
	Tune failed, DNR.			
4				
File ID: 8M400357				
	Purged BFB.			
30	X	100	Over Calibration Range	TCE
File ID: 8M400385				
31	X	1	Carry-over contamination	
File ID: 8M400386				
	DNR.			
32	X	1	Carry-over contamination	
File ID: 8M400387				
	DNR.			
33	X	50	Over Calibration Range	TCE
File ID: 8M400388				
34	X	1	Carry-over contamination	
File ID: 8M400389				
	DNR.			

Approved: October 03, 2014

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 070215
Analyst1: ADC Analyst2: JDS
Method: 8260B SOP: MSV01 / OVAP MSV01 Rev: 22 / 0
Method: 624 SOP: MSV10 Rev: 13
Method: 5030B/5030C/5035A SOP: PAT01 / OVAP PAT01 Rev: 18 / 0
Maintenance Log ID:

Internal Standard: STD71240 Surrogate Standard: STD71240
CCV: STD71244 LCS: STD71242 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG529657

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M405863	WG529657-01 50ng BFB STD 8260	NA	1	1	STD71200	07/02/15 14:44
8M405864	RINSE	NA	1	1		07/02/15 15:07
8M405865	WG529657-02 0.3ug/L STD 8260	NA	1	1	STD71244	07/02/15 15:36
8M405866	WG529657-03 0.4ug/L STD 8260	NA	1	1	STD71244	07/02/15 16:05
8M405867	WG529657-04 1.0ug/L STD 8260	NA	1	1	STD71244	07/02/15 16:34
8M405868	WG529657-05 2.0ug/L STD 8260	NA	1	1	STD71244	07/02/15 17:03
8M405869	WG529657-06 5.0ug/L STD 8260	NA	1	1	STD71244	07/02/15 17:31
8M405870	WG529657-07 20.0ug/L STD 8260	NA	1	1	STD71244	07/02/15 18:00
8M405871	WG529657-08 50.0ug/L STD 8260	NA	1	1	STD71244	07/02/15 18:28
8M405872	WG529657-09 100.0ug/L STD 8260	NA	1	1	STD71244	07/02/15 18:56
8M405873	WG529657-10 200.0ug/L STD 8260	NA	1	1	STD71244	07/02/15 19:25
8M405874	WG529657-11 300.0ug/L STD 8260	NA	1	1	STD71244	07/02/15 19:55
8M405875	RINSE	NA	1	1	STD71244	07/02/15 20:23
8M405876	WG529657-12 50.0ug/L ALT 8260	NA	1	1	STD71242	07/02/15 20:52

Approved: July 08, 2015

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 070315
Analyst1: ADC Analyst2: JDS
Method: 8260B SOP: MSV01 Rev: 22
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18

Maintenance Log ID:

Internal Standard: STD71240 Surrogate Standard: STD71240
CCV: STD71244 LCS: STD71242 MS/MSD: STD71242

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG529903

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M405877	WG529902-01 50ng BFB STD 8260	NA	1	1	STD71200	07/03/15 14:18
8M405878	WG529902-02 50ug/L CCV STD 8260	NA	1	1	STD71244	07/03/15 14:42
8M405879	WG529903-01 BLANK STD 8260	NA	1	1		07/03/15 15:10
8M405880	WGXXXXXX-01 A9FOO CCV	NA	1	1		07/03/15 15:39
8M405881	WG529903-02 20ug/L LCS STD 8260	NA	1	1	STD71242	07/03/15 16:08
8M405882	L15061450-04 A MS 8260	<2	1	1	STD71242	07/03/15 16:37
8M405883	L15061450-05 A MSD 8260	<2	1	1	STD71242	07/03/15 17:06
8M405884	RINSE	NA	1	1		07/03/15 17:35
8M405885	L15061450-01 A TB 8260	<2	1	1		07/03/15 18:03
8M405886	L15070144-02 A TB 8260	7	1	1		07/03/15 18:31
8M405887	L15061450-02 A REF 8260	<2	1	1		07/03/15 19:00
8M405888	L15061450-03 A 8260	<2	1	1		07/03/15 19:29
8M405889	L15061450-06 A 8260	<2	1	1		07/03/15 19:57
8M405890	L15061450-07 A 8260	<2	1	1		07/03/15 20:26
8M405891	L15061450-08 A 8260	<2	1	1		07/03/15 20:54
8M405892	L15061450-09 A 8260	<2	1	1		07/03/15 21:23
8M405893	L15061450-10 A 8260	<2	1	1		07/03/15 21:52
8M405894	L15061450-11 A 8260	<2	1	1		07/03/15 22:20
8M405895	L15061450-12 A 8260	<2	1	1		07/03/15 22:49
8M405896	L15061450-13 A 8260	<2	1	1		07/03/15 23:18
8M405897	L15061450-14 A 8260	<2	1	1		07/03/15 23:47
8M405898	L15061450-15 A 8260	<2	1	1		07/04/15 00:15
8M405899	L15070141-01 A 8260	7	1	1		07/04/15 00:44
8M405900	L15070143-01 A 8260	6	1	1		07/04/15 01:13
8M405901	L15070144-01 A 8260	6	1	1		07/04/15 01:42
8M405902	RINSE	NA	1	1		07/04/15 02:10
8M405903	RINSE	NA	1	1		07/04/15 02:39
8M405904	RINSE	NA	1	1		07/04/15 03:08

Comments

Seq.	Rerun	Dil.	Reason	Analytes
29				
File ID: 8M405886				

Approved: July 09, 2015

Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 070315
Analyst1: ADC Analyst2: JDS
Method: 8260B SOP: MSV01 Rev: 22
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18

Maintenance Log ID:

Internal Standard: STD71240 Surrogate Standard: STD71240
CCV: STD71244 LCS: STD71242 MS/MSD: STD71242

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG529903

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
			Renamed and reuploaded to be reported as 141-02, 142-02, 143-02, 144-02.	
18	X	2.5	Over Calibration Range	124-tmb
File ID: 8M405894				

Approved: July 09, 2015

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 070615
Analyst1: ADC Analyst2: JDS
Method: 8260B SOP: MSV01 Rev: 22
Method: 624 SOP: MSV10 Rev: 13
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID:

Internal Standard: STD71240 Surrogate Standard: STD71240
CCV: STD71244 LCS: STD71359 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG530076

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M405905	WG530075-01 50ng BFB STD 8260	NA	1	1	STD71200	07/06/15 13:44
8M405906	WG530075-02 50ug/L CCV STD 8260	NA	1	1	STD71244	07/06/15 14:07
8M405907	WG000000-01 A9 CCV STD 8260	NA	1	1	STD70997	07/06/15 14:36
8M405908	WG530076-01 BLANK STD 8260	NA	1	1		07/06/15 15:05
8M405909	L15070142-01 A 8260	7	1	1		07/06/15 15:33
8M405910	L15061078-01 A 826-REF-BLK	<2	1	1		07/06/15 16:02
8M405911	L15061078-02 A 826-REF-BLK	<2	1	1		07/06/15 16:31
8M405912	L15061078-03 A 826-REF-BLK	<2	1	1		07/06/15 16:59
8M405913	L15061078-04 A 826-REF-BLK	<2	1	1		07/06/15 17:27
8M405914	L15061078-05 A 826-REF-BLK	<2	1	1		07/06/15 17:56
8M405915	WG530076-02 20ug/L LCS STD 8260	NA	1	1	STD71359	07/06/15 18:24
8M405916	WG530076-03 20ug/L LCS2 STD 8260	NA	1	1	STD71359	07/06/15 18:53
8M405917	L15061450-11 B D1 2.5X 826-SPE	<2	1	2.5		07/06/15 19:22
8M405918	L15061620-01 A 826-SPE	<2	1	1		07/06/15 19:51
8M405919	L15061514-01 A 826-SPE	<2	1	1		07/06/15 20:20
8M405920	L15061514-03 A 826-SPE	<2	1	1		07/06/15 20:48
8M405921	L15061514-07 A 826-SPE	<2	1	1		07/06/15 21:16
8M405922	L15061514-09 A 826-SPE	<2	1	1		07/06/15 21:45
8M405923	L15061620-02 A 826-SPE	<2	1	1		07/06/15 22:14
8M405924	L15061620-03 A 826-SPE	<2	1	1		07/06/15 22:43
8M405925	L15061620-04 A 826-SPE	<2	1	1		07/06/15 23:12
8M405926	L15061514-05 A 5X 826-SPE	<2	1	5		07/06/15 23:41
8M405927	L15061620-05 A 5X 826-SPE	<2	1	5		07/07/15 00:09
8M405928	L15061620-06 A 50X 826-SPE	<2	1	50		07/07/15 00:38
8M405929	L15061620-07 A 100X 826-SPE	<2	1	100		07/07/15 01:07
8M405930	RINSE	NA	1	1		07/07/15 01:35
8M405931	RINSE	NA	1	1		07/07/15 02:04
8M405932	RINSE	NA	1	1		07/07/15 02:32

Approved: July 10, 2015

Page: 1

Microbac Laboratories Inc.

Data Checklist

Date: 02-OCT-2014
Analyst: TMB
Analyst: NA
Method: 8260B/624/OVAP
Instrument: HPMS8
Curve Workgroup: NA
Runlog ID: 63840
Analytical Workgroups: WG494714; WG494980

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	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
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:
03-OCT-2014
Tiffany Bailey

Secondary Reviewer:
03-OCT-2014

CHECKLIST1 - Modified 03/05/2008
Generated: OCT-03-2014 13:21:54

Microbac Laboratories Inc.

Data Checklist

Date: 02-JUL-2015
Analyst: ADC
Analyst: JDS
Method: 8260B/624
Instrument: HPMS7
Curve Workgroup: NA
Runlog ID: 69058
Analytical Workgroups: WG529657

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	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	ADC
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
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	TMB
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:
08-JUL-2015
Tiffany Bailey

Secondary Reviewer:
08-JUL-2015

CHECKLIST1 - Modified 03/05/2008
Generated: JUL-09-2015 09:20:17

Microbac Laboratories Inc.

Data Checklist

Date: 03-JUL-2015
Analyst: ADC
Analyst: JDS
Method: 8260B
Instrument: HPMS8
Curve Workgroup: NA
Runlog ID: 69015
Analytical Workgroups: WG529903

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	NA
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	ADC
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:
09-JUL-2015

Secondary Reviewer:
09-JUL-2015

CHECKLIST1 - Modified 03/05/2008
Generated: JUL-10-2015 17:09:52

Microbac Laboratories Inc.

Data Checklist

Date: 06-JUL-2015
Analyst: ADC
Analyst: JDS
Method: 8260B/624
Instrument: HPMS8
Curve Workgroup: NA
Runlog ID: 69088
Analytical Workgroups: WG530076

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	X
TCL Hits	X
Spectra of TCL Hits	DLW
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	TMB
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:
09-JUL-2015
Tiffany Bailey

Secondary Reviewer:
10-JUL-2015

CHECKLIST1 - Modified 03/05/2008
Generated: JUL-10-2015 17:10:16

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B AAB#: WG529903

Login Number: L15061450

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
TB057	01	06/23/15					07/03/2015	10.4	14		07/03/15	10.4	14	
SW0620	02	06/23/15					07/03/2015	10.2	14		07/03/15	10.2	14	
SW0620D	03	06/23/15					07/03/2015	10.3	14		07/03/15	10.3	14	
SW0620MS	04	06/23/15					07/03/2015	10.1	14		07/03/15	10.1	14	
SW0620MSD	05	06/23/15					07/03/2015	10.2	14		07/03/15	10.2	14	
PZ407	06	06/23/15					07/03/2015	10.2	14		07/03/15	10.2	14	
MW04GW04R04	07	06/23/15					07/03/2015	10.2	14		07/03/15	10.2	14	
MW04GW0214	08	06/23/15					07/03/2015	10.1	14		07/03/15	10.1	14	
SDW23AR03	09	06/24/15					07/03/2015	9.4	14		07/03/15	9.4	14	
SW0718	10	06/24/15					07/03/2015	9.5	14		07/03/15	9.5	14	
MW04GW0511	11	06/24/15					07/03/2015	9.3	14		07/03/15	9.3	14	
MW04GW0112	12	06/24/15					07/03/2015	9.4	14		07/03/15	9.4	14	
FB018	13	06/24/15					07/03/2015	9.5	14		07/03/15	9.5	14	
ER034	14	06/24/15					07/03/2015	9.5	14		07/03/15	9.5	14	
MW04GW0313	15	06/23/15					07/04/2015	10.2	14		07/04/15	10.2	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 4272811
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG530076

Login Number: L15061450

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
MW04GW0511	11	06/24/15					07/06/2015	12.2	14		07/06/15	12.2	14	

*** = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 4272811
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L15061450 **Method:** 8260
Instrument Id: HPMS8 **CAL ID:** HPMS8-02-JUL-15
Workgroup (AAB#): WG530076 **Matrix:** Water

Sample Number	Dilution	Tag	1	2	3	4
L15061450-11	2.50	DL01	101	103	94.0	103
WG530076-01	1.00	01	99.0	102	101	103
WG530076-02	1.00	01	100	103	96.2	102
WG530076-03	1.00	01	102	101	98.8	101

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	120
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	75	-	120
4 - Toluene-d8	85	-	120

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 4272819
Report generated: 07/10/2015 12:53

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L15061450
Instrument Id: HPMS8
Workgroup (AAB#): WG529903

Method: 8260
CAL ID: HPMS8-02-JUL-15
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L15061450-01	1.00	01	101	101	102	103
L15061450-02	1.00	01	104	101	105	103
L15061450-03	1.00	01	105	100	99.5	104
L15061450-04	1.00	01	99.5	98.8	98.4	103
L15061450-05	1.00	01	99.8	100	103	104
L15061450-06	1.00	01	105	102	101	102
L15061450-07	1.00	01	100	98.9	99.1	102
L15061450-08	1.00	01	102	102	104	102
L15061450-09	1.00	01	100	100	102	104
L15061450-10	1.00	01	104	103	101	104
L15061450-11	1.00	01	101	101	94.9	104
L15061450-12	1.00	01	101	99.8	99.7	104
L15061450-13	1.00	01	100	99.0	103	103
L15061450-14	1.00	01	104	102	104	103
L15061450-15	1.00	01	103	101	101	103
WG529903-01	1.00	01	99.7	99.0	101	103
WG529903-02	1.00	01	98.6	97.6	101	103

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	120
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	75	-	120
4 - Toluene-d8	85	-	120

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 4272819
Report generated: 07/10/2015 12:53

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L15061450
Work Group: WG529903
Blank File ID: 8M405879
Blank Sample ID: WG529903-01
Prep Date: 07/03/15 15:10
Instrument ID: HPMS8
Analyzed Date: 07/03/15 15:10
Method: 8260B
Analyst: ADC/ JDS

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG529903-02	8M405881	07/03/15 16:08	01
SW0620MS	L15061450-04	8M405882	07/03/15 16:37	01
SW0620MSD	L15061450-05	8M405883	07/03/15 17:06	01
TB057	L15061450-01	8M405885	07/03/15 18:03	01
SW0620	L15061450-02	8M405887	07/03/15 19:00	01
SW0620D	L15061450-03	8M405888	07/03/15 19:29	01
PZ407	L15061450-06	8M405889	07/03/15 19:57	01
MW04GW04R04	L15061450-07	8M405890	07/03/15 20:26	01
MW04GW0214	L15061450-08	8M405891	07/03/15 20:54	01
SDW23AR03	L15061450-09	8M405892	07/03/15 21:23	01
SW0718	L15061450-10	8M405893	07/03/15 21:52	01
MW04GW0511	L15061450-11	8M405894	07/03/15 22:20	01
MW04GW0112	L15061450-12	8M405895	07/03/15 22:49	01
FB018	L15061450-13	8M405896	07/03/15 23:18	01
ER034	L15061450-14	8M405897	07/03/15 23:47	01
MW04GW0313	L15061450-15	8M405898	07/04/15 00:15	01

Report Name: BLANK_SUMMARY
PDF File ID: 4272812
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L15061450
Blank File ID: 8M405908
Prep Date: 07/06/15 15:05
Analyzed Date: 07/06/15 15:05
Analyst: ADC/ JDS

Work Group: WG530076
Blank Sample ID: WG530076-01
Instrument ID: HPMS8
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG530076-02	8M405915	07/06/15 18:24	01
LCS2	WG530076-03	8M405916	07/06/15 18:53	01
MW04GW0511	L15061450-11	8M405917	07/06/15 19:22	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 4272812
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L15061450 Prep Date: 07/03/15 15:10 Sample ID: WG529903-01
Instrument ID: HPMS8 Run Date: 07/03/15 15:10 Prep Method: 5030B/5030C/503
File ID: 8M405879 Analyst: ADC/ JDS Method: 8260B
Workgroup (AAB#): WG529903 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS8-02-JUL-15

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.201	1	J
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
2-Butanone	2.50	5.00	2.50	1	U
2-Hexanone	2.50	5.00	2.50	1	U
4-Methyl-2-pentanone	2.50	5.00	2.50	1	U
Acetone	2.50	5.00	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chloroethane	0.500	1.00	0.500	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
Cyclohexane	1.00	5.00	1.00	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
Isopropylbenzene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U
Methyl Cyclohexane	1.00	5.00	1.00	1	U
Methylene chloride	0.250	1.00	0.250	1	U
Methyl t-butyl ether (MTBE)	0.500	1.00	0.500	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Naphthalene	0.200	1.00	0.200	1	U
o-Xylene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
Styrene	0.125	1.00	0.125	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U

Report Name:BLANK
PDF ID: 4272813
10-JUL-2015 12:53

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METHOD BLANK REPORT

Login Number: L15061450 Prep Date: 07/03/15 15:10 Sample ID: WG529903-01
Instrument ID: HPMS8 Run Date: 07/03/15 15:10 Prep Method: 5030B/5030C/503
File ID: 8M405879 Analyst: ADC/ JDS Method: 8260B
Workgroup (AAB#): WG529903 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS8-02-JUL-15

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	5.00	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	99.7	70 - 120	PASS
4-Bromofluorobenzene	101	75 - 120	PASS
Dibromofluoromethane	99.0	85 - 115	PASS
Toluene-d8	103	85 - 120	PASS

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 4272813
10-JUL-2015 12:53

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L15061450 Prep Date:07/06/15 15:05 Sample ID:WG530076-01
Instrument ID:HPMS8 Run Date:07/06/15 15:05 Prep Method:5030B/5030C/503
File ID:8M405908 Analyst:ADC/ JDS Method:8260B
Workgroup (AAB#):WG530076 Matrix:Water Units:ug/L
Contract #: Cal ID: HPMS8-02-JUL-15

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
2-Butanone	2.50	5.00	2.50	1	U
2-Hexanone	2.50	5.00	2.50	1	U
4-Methyl-2-pentanone	2.50	5.00	2.50	1	U
Acetone	2.50	5.00	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chloroethane	0.500	1.00	0.500	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
Cyclohexane	1.00	5.00	1.00	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
Isopropylbenzene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U
Methyl Cyclohexane	1.00	5.00	1.00	1	U
Methylene chloride	0.250	1.00	0.250	1	U
Methyl t-butyl ether (MTBE)	0.500	1.00	0.500	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Naphthalene	0.200	1.00	0.200	1	U
o-Xylene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
Styrene	0.125	1.00	0.125	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U

Report Name:BLANK
PDF ID: 4272813
10-JUL-2015 12:53

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L15061450 Prep Date: 07/06/15 15:05 Sample ID: WG530076-01
Instrument ID: HPMS8 Run Date: 07/06/15 15:05 Prep Method: 5030B/5030C/503
File ID: 8M405908 Analyst: ADC/ JDS Method: 8260B
Workgroup (AAB#): WG530076 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS8-02-JUL-15

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	5.00	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	99.0	70 - 120	PASS
4-Bromofluorobenzene	101	75 - 120	PASS
Dibromofluoromethane	102	85 - 115	PASS
Toluene-d8	103	85 - 120	PASS

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 4272813
10-JUL-2015 12:53

Login Number: L15061450 Run Date: 07/03/2015 Sample ID: WG529903-02
Instrument ID: HPMS8 Run Time: 16:08 Prep Method: 5030B/5030C/503
File ID: 8M405881 Analyst: ADC/ JDS Method: 8260B
Workgroup (AAB#): WG529903 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD71242 Cal ID: HPMS8-02-JUL-15

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1-Trichloroethane	20.0	21.1	105	65 - 130	
1,1,2,2-Tetrachloroethane	20.0	20.9	105	65 - 130	
1,1,2-Trichloroethane	20.0	20.4	102	75 - 125	
1,1-Dichloroethane	20.0	20.0	99.9	70 - 135	
1,1-Dichloroethene	20.0	19.6	97.9	70 - 130	
1,2,4-Trichlorobenzene	20.0	19.3	96.7	65 - 135	
1,2,4-Trimethylbenzene	20.0	22.4	112	75 - 130	
1,2-Dichloroethane	20.0	20.5	102	70 - 130	
1,2-Dichloropropane	20.0	21.1	105	75 - 125	
1,3,5-Trimethylbenzene	20.0	22.5	113	75 - 130	
2-Butanone	20.0	19.9	99.5	30 - 150	
2-Hexanone	20.0	19.9	99.4	55 - 130	
4-Methyl-2-pentanone	20.0	19.9	99.4	60 - 135	
Acetone	20.0	20.1	100	40 - 140	
Benzene	20.0	21.4	107	80 - 120	
Bromodichloromethane	20.0	20.5	103	75 - 120	
Bromoform	20.0	19.0	94.8	70 - 130	
Bromomethane	20.0	21.3	107	30 - 145	
Carbon disulfide	20.0	20.1	100	35 - 160	
Carbon tetrachloride	20.0	20.8	104	65 - 140	
Chlorobenzene	20.0	19.5	97.5	80 - 120	
Chloroethane	20.0	23.4	117	60 - 135	
Chloroform	20.0	20.5	103	65 - 135	
Chloromethane	20.0	21.3	107	40 - 125	
cis-1,2-Dichloroethene	20.0	20.7	103	70 - 125	
cis-1,3-Dichloropropene	20.0	22.2	111	70 - 130	
Cyclohexane	20.0	19.4	96.8	70 - 130	
Chlorodibromomethane	20.0	19.1	95.4	60 - 135	
Ethylbenzene	20.0	20.7	103	75 - 125	
Isopropylbenzene	20.0	20.6	103	75 - 125	
m-,p-Xylene	40.0	41.8	104	75 - 130	
Methyl Cyclohexane	20.0	20.9	104	80 - 130	
Methylene chloride	20.0	20.2	101	55 - 140	
Methyl t-butyl ether (MTBE)	20.0	20.7	103	65 - 125	
n-Butylbenzene	20.0	22.4	112	70 - 135	
n-Propylbenzene	20.0	21.2	106	70 - 130	
Naphthalene	20.0	19.7	98.3	55 - 140	
o-Xylene	20.0	19.8	99.2	80 - 120	
p-Isopropyltoluene	20.0	20.8	104	75 - 130	
sec-Butylbenzene	20.0	21.7	109	70 - 125	
Styrene	20.0	21.9	110	65 - 135	

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

Login Number: L15061450 Run Date: 07/03/2015 Sample ID: WG529903-02
Instrument ID: HPMS8 Run Time: 16:08 Prep Method: 5030B/5030C/503
File ID: 8M405881 Analyst: ADC/ JDS Method: 8260B
Workgroup (AAB#): WG529903 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD71242 Cal ID: HPMS8-02-JUL-15

Analytes	Expected	Found	% Rec	LCS Limits	Q
tert-Butylbenzene	20.0	20.4	102	70 - 130	
Tetrachloroethene	20.0	20.9	105	45 - 150	
Toluene	20.0	21.9	110	75 - 120	
trans-1,2-Dichloroethene	20.0	21.1	106	60 - 140	
trans-1,3-Dichloropropene	20.0	20.0	99.8	55 - 140	
Trichloroethene	20.0	21.7	109	70 - 125	
Vinyl acetate	20.0	28.3	142	10 - 190	
Vinyl chloride	20.0	21.9	109	50 - 145	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	98.6	70 - 120	PASS
4-Bromofluorobenzene	101	75 - 120	PASS
Dibromofluoromethane	97.6	85 - 115	PASS
Toluene-d8	103	85 - 120	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 4272814
Report generated: 07/10/2015 12:53

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L15061450 Analyst: ADC/ JDS Prep Method: 5030B/5030C/503
Instrument ID: HPMS8 Matrix: Water Method: 8260B
Workgroup (AAB#): WG530076 Units: ug/L
QC Key: DOD4 Lot #: STD71359

Sample ID: WG530076-02 LCS File ID: 8M405915 Run Date: 07/06/2015 18:24
Sample ID: WG530076-03 LCS2 File ID: 8M405916 Run Date: 07/06/2015 18:53

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	22.1	110	20.0	22.7	114	2.85	65 - 130	30	
1,1,2,2-Tetrachloroethane	20.0	20.7	104	20.0	21.1	106	1.93	65 - 130	30	
1,1,2-Trichloroethane	20.0	20.9	104	20.0	20.9	104	0.130	75 - 125	30	
1,1-Dichloroethane	20.0	20.4	102	20.0	21.3	107	4.44	70 - 135	30	
1,1-Dichloroethene	20.0	20.3	102	20.0	21.1	105	3.62	70 - 130	30	
1,2,4-Trichlorobenzene	20.0	20.1	100	20.0	20.4	102	1.56	65 - 135	30	
1,2,4-Trimethylbenzene	20.0	21.9	110	20.0	22.8	114	3.90	75 - 130	30	
1,2-Dichloroethane	20.0	21.3	107	20.0	21.8	109	2.35	70 - 130	30	
1,2-Dichloropropane	20.0	21.9	109	20.0	22.2	111	1.51	75 - 125	30	
1,3,5-Trimethylbenzene	20.0	21.9	109	20.0	22.7	113	3.80	75 - 130	30	
2-Butanone	20.0	21.7	108	20.0	20.9	105	3.37	30 - 150	30	
2-Hexanone	20.0	19.9	99.3	20.0	19.2	95.8	3.66	55 - 130	30	
4-Methyl-2-pentanone	20.0	19.7	98.6	20.0	20.3	101	2.75	60 - 135	30	
Acetone	20.0	21.5	108	20.0	21.3	107	0.820	40 - 140	30	
Benzene	20.0	21.9	109	20.0	22.1	111	1.23	80 - 120	30	
Bromodichloromethane	20.0	21.3	107	20.0	22.0	110	2.87	75 - 120	30	
Bromoform	20.0	19.8	99.1	20.0	18.7	93.5	5.89	70 - 130	30	
Bromomethane	20.0	19.3	96.7	20.0	21.0	105	8.24	30 - 145	30	
Carbon disulfide	20.0	21.9	110	20.0	20.6	103	6.29	35 - 160	30	
Carbon tetrachloride	20.0	21.8	109	20.0	22.2	111	2.02	65 - 140	30	
Chlorobenzene	20.0	19.7	98.7	20.0	19.7	98.3	0.337	80 - 120	30	
Chloroethane	20.0	23.1	116	20.0	24.4	122	5.15	60 - 135	30	
Chloroform	20.0	21.9	109	20.0	22.2	111	1.30	65 - 135	30	
Chloromethane	20.0	20.3	101	20.0	20.8	104	2.78	40 - 125	30	
cis-1,2-Dichloroethene	20.0	21.7	109	20.0	22.0	110	1.40	70 - 125	30	
cis-1,3-Dichloropropene	20.0	23.0	115	20.0	22.9	115	0.438	70 - 130	30	
Cyclohexane	20.0	19.5	97.5	20.0	20.2	101	3.48	70 - 130	20	
Chlorodibromomethane	20.0	19.5	97.3	20.0	18.9	94.7	2.67	60 - 135	30	
Ethylbenzene	20.0	20.5	102	20.0	20.3	102	0.868	75 - 125	30	
Isopropylbenzene	20.0	21.1	105	20.0	21.0	105	0.349	75 - 125	30	
m-,p-Xylene	40.0	41.5	104	40.0	41.7	104	0.299	75 - 130	30	
Methyl t-butyl ether (MTBE)	20.0	21.3	107	20.0	21.9	110	2.70	65 - 125	30	
Methyl Cyclohexane	20.0	21.8	109	20.0	21.7	109	0.354	80 - 130	20	
Methylene chloride	20.0	21.1	106	20.0	21.0	105	0.651	55 - 140	30	
n-Butylbenzene	20.0	21.5	107	20.0	22.6	113	5.03	70 - 135	30	
n-Propylbenzene	20.0	20.8	104	20.0	21.6	108	3.76	70 - 130	30	
Naphthalene	20.0	19.8	98.9	20.0	19.9	99.7	0.780	55 - 140	30	
o-Xylene	20.0	20.2	101	20.0	20.0	100	0.972	80 - 120	30	
p-Isopropyltoluene	20.0	20.5	102	20.0	21.5	108	5.05	75 - 130	30	
sec-Butylbenzene	20.0	21.0	105	20.0	22.2	111	5.31	70 - 125	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 4272913
Report generated: 07/10/2015 12:53

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L15061450 Analyst: ADC/ JDS Prep Method: 5030B/5030C/503
Instrument ID: HPMS8 Matrix: Water Method: 8260B
Workgroup (AAB#): WG530076 Units: ug/L
QC Key: DOD4 Lot #: STD71359

Sample ID: WG530076-02 LCS File ID: 8M405915 Run Date: 07/06/2015 18:24
Sample ID: WG530076-03 LCS2 File ID: 8M405916 Run Date: 07/06/2015 18:53

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Styrene	20.0	22.0	110	20.0	21.6	108	1.91	65 - 135	30	
tert-Butylbenzene	20.0	20.4	102	20.0	21.1	106	3.72	70 - 130	30	
Tetrachloroethene	20.0	21.6	108	20.0	21.5	108	0.554	45 - 150	30	
Toluene	20.0	22.1	111	20.0	22.1	111	0.0778	75 - 120	30	
trans-1,2-Dichloroethene	20.0	21.8	109	20.0	21.9	109	0.174	60 - 140	30	
trans-1,3-Dichloropropene	20.0	21.0	105	20.0	19.8	99.0	5.69	55 - 140	30	
Trichloroethene	20.0	23.1	116	20.0	23.3	117	0.886	70 - 125	30	
Vinyl acetate	20.0	42.6	213	20.0	40.9	204	4.06	10 - 190	20	*
Vinyl chloride	20.0	23.4	117	20.0	22.8	114	2.61	50 - 145	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	100	102	70 - 120	PASS
Dibromofluoromethane	103	101	85 - 115	PASS
4-Bromofluorobenzene	96.2	98.8	75 - 120	PASS
Toluene-d8	102	101	85 - 120	PASS

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 4272913
Report generated: 07/10/2015 12:53

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L15061450
Instrument: HPMS8
Analyst: TMB
Workgroup: WG494714

Tune ID: WG494714-01
Run Date: 10/02/2014
Run Time: 11:58
File ID: 8M400357
Cal ID: HPMS8-02-OCT-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	21.7	5158	PASS
75.0	95.0	30.0	60.0	51.7	12312	PASS
95.0	95.0	100	100	100	23818	PASS
96.0	95.0	5.00	9.00	7.56	1800	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	69.7	16590	PASS
175	174	5.00	9.00	7.78	1290	PASS
176	174	95.0	101	97.3	16145	PASS
177	176	5.00	9.00	6.34	1023	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG494714-02	STD	01	10/02/2014 12:24	
WG494714-03	STD	01	10/02/2014 12:53	
WG494714-04	STD	01	10/02/2014 13:22	
WG494714-05	STD	01	10/02/2014 13:51	
WG494714-06	STD	01	10/02/2014 14:19	
WG494714-07	STD	01	10/02/2014 14:48	
WG494714-08	STD	01	10/02/2014 15:16	
WG494714-09	STD	01	10/02/2014 15:45	
WG494714-10	SSCV	01	10/02/2014 16:47	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4272816
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L15061450
Instrument: HPMS8
Analyst: ADC/ JDS
Workgroup: WG529657

Tune ID: WG529657-01
Run Date: 07/02/2015
Run Time: 14:44
File ID: 8M405863
Cal ID: HPMS8-02-JUL-15

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	23.2	12420	PASS
75.0	95.0	30.0	60.0	50.9	27314	PASS
95.0	95.0	100	100	100	53624	PASS
96.0	95.0	5.00	9.00	7.37	3952	PASS
173	174	0	2.00	0.393	164	PASS
174	95.0	50.0	100	77.8	41722	PASS
175	174	5.00	9.00	6.43	2684	PASS
176	174	95.0	101	96.4	40240	PASS
177	176	5.00	9.00	7.03	2828	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG529657-02	STD	01	07/02/2015 15:36	
WG529657-03	STD	01	07/02/2015 16:05	
WG529657-04	STD	01	07/02/2015 16:34	
WG529657-05	STD	01	07/02/2015 17:03	
WG529657-06	STD	01	07/02/2015 17:31	
WG529657-07	STD	01	07/02/2015 18:00	
WG529657-08	STD-CCV	01	07/02/2015 18:28	
WG529657-09	STD	01	07/02/2015 18:56	
WG529657-10	STD	01	07/02/2015 19:25	
WG529657-11	STD	01	07/02/2015 19:55	
WG529657-12	SSCV	01	07/02/2015 20:52	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4272816
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L15061450
Instrument: HPMS8
Analyst: ADC/ JDS
Workgroup: WG529902

Tune ID: WG529902-01
Run Date: 07/03/2015
Run Time: 14:18
File ID: 8M405877
Cal ID: HPMS8-02-JUL-15

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	23.5	13396	PASS
75.0	95.0	30.0	60.0	49.7	28320	PASS
95.0	95.0	100	100	100	57016	PASS
96.0	95.0	5.00	9.00	6.90	3934	PASS
173	174	0	2.00	0.707	309	PASS
174	95.0	50.0	100	76.6	43690	PASS
175	174	5.00	9.00	7.71	3367	PASS
176	174	95.0	101	95.6	41770	PASS
177	176	5.00	9.00	6.67	2786	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG529902-02	CCV	01	07/03/2015 14:42	
WG529903-01	BLANK	01	07/03/2015 15:10	
WG529903-02	LCS	01	07/03/2015 16:08	
L15061450-04	SW0620MS	01	07/03/2015 16:37	
L15061450-05	SW0620MSD	01	07/03/2015 17:06	
L15061450-01	TB057	01	07/03/2015 18:03	
L15061450-02	SW0620	01	07/03/2015 19:00	
L15061450-03	SW0620D	01	07/03/2015 19:29	
L15061450-06	PZ407	01	07/03/2015 19:57	
L15061450-07	MW04GW04R04	01	07/03/2015 20:26	
L15061450-08	MW04GW0214	01	07/03/2015 20:54	
L15061450-09	SDW23AR03	01	07/03/2015 21:23	
L15061450-10	SW0718	01	07/03/2015 21:52	
L15061450-11	MW04GW0511	01	07/03/2015 22:20	
L15061450-12	MW04GW0112	01	07/03/2015 22:49	
L15061450-13	FB018	01	07/03/2015 23:18	
L15061450-14	ER034	01	07/03/2015 23:47	
L15061450-15	MW04GW0313	01	07/04/2015 00:15	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4272816
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L15061450
Instrument: HPMS8
Analyst: ADC/ JDS
Workgroup: WG530075

Tune ID: WG530075-01
Run Date: 07/06/2015
Run Time: 13:44
File ID: 8M405905
Cal ID: HPMS8-02-JUL-15

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.9	12119	PASS
75.0	95.0	30.0	60.0	50.7	24733	PASS
95.0	95.0	100	100	100	48744	PASS
96.0	95.0	5.00	9.00	6.52	3179	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	71.4	34827	PASS
175	174	5.00	9.00	7.64	2661	PASS
176	174	95.0	101	98.3	34237	PASS
177	176	5.00	9.00	6.44	2204	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG530075-02	CCV	01	07/06/2015 14:07	
WG530076-01	BLANK	01	07/06/2015 15:05	
WG530076-02	LCS	01	07/06/2015 18:24	
WG530076-03	LCS2	01	07/06/2015 18:53	
L15061450-11	MW04GW0511	DL01	07/06/2015 19:22	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4272816
Report generated 07/10/2015 12:53

Calibration Table Report
Method: A9FOOWTR.M
Title: A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Calibration: Fri Oct 03 12:32:07 2014
Curve: WG494714
Calibration Files

	Compound	5 8M400358.D	20 8M400359.D	50 8M400360.D	100 8M400361.D	200 8M400362.D	300 8M400363.D	400 8M400364.D	500 8M400365.D	Avg	%RSD	Linear	Quad
I	Fluorobenzene	ISTD											
T	Acetonitrile	0.015	0.015	0.015	0.016	0.017	0.016	0.015	0.016	0.016	4.015		
T	3-Chloro-1-propene	0.416	0.403	0.416	0.438	0.434	0.423	0.407	0.394	0.416	3.619		
T	2-Chloro-1,3-butadiene	0.467	0.479	0.496	0.520	0.522	0.508	0.485	0.462	0.493	4.640		
T	Ethyl Acetate	0.104	0.115	0.123	0.133	0.135	0.133	0.126	0.130	0.125	8.569		
T	Methacrylonitrile	0.062	0.065	0.072	0.077	0.080	0.080	0.077	0.081	0.074	9.397		
T	Isobutyl Alcohol			0.004	0.005	0.005	0.005	0.005	0.005	0.005	9.693		
T	1-Butanol			0.002	0.002	0.003	0.003	0.003	0.003	0.003	21.690	0.995	
T	Methyl methacrylate	0.115	0.123	0.137	0.147	0.154	0.151	0.145	0.150	0.140	10.193		
T	2-Nitropropane	0.032	0.035	0.039	0.043	0.047	0.046	0.046	0.048	0.042	14.057		
I	Chlorobenzene-d5	ISTD											
I	1,4-Dichlorobenzene-d4	ISTD											
T	Cyclohexanone			0.039	0.043	0.037	0.043	0.036	0.038	0.039	7.787		

Fri Oct 03 12:35:36 2014

Calibration Table Report
Method: 8260WT.M
Title: Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Calibration: Fri Jul 03 13:27:47 2015
Curve: WG529657
Calibration Files

	Compound	0.3 8M405865.D	0.4 8M405866.D	1 8M405867.D	2 8M405868.D	5 8M405869.D	20 8M405870.D	50 8M405871.D	100 8M405872.D	200 8M405873.D	300 8M405874.D	Avg	%RSD	Linear	Quad
I	Fluorobenzene	ISTD													
T	Dichlorodifluoromethane		0.259	0.174	0.193	0.240	0.301	0.286	0.292	0.274	0.269	0.254	17.373	0.998	
P	Chloromethane			0.584	0.464	0.519	0.542	0.488	0.481	0.439	0.411	0.491	11.425		
C	Vinyl Chloride		0.466	0.333	0.344	0.390	0.422	0.390	0.383	0.348	0.327	0.378	12.086		
T	1,3-Butadiene		0.353	0.249	0.280	0.313	0.358	0.329	0.289	0.275	0.258	0.300	13.333		
T	Bromomethane		0.188	0.136	0.127	0.161	0.171	0.174	0.184	0.184	0.192	0.169	13.673		
T	Chloroethane		0.116	0.156	0.139	0.171	0.176	0.172	0.178	0.176	0.180	0.163	13.537		
T	Trichlorofluoromethane		0.430	0.298	0.311	0.397	0.409	0.391	0.399	0.388	0.401	0.380	11.770		
T	Diethyl ether			0.145	0.145	0.149	0.151	0.149	0.150		0.153	0.149	2.150		
T	Isoprene		0.257	0.185	0.196	0.246	0.268	0.270	0.276	0.289	0.296	0.254	15.334	0.999	
T	Acrolein				0.011	0.009	0.009	0.010	0.011		0.013	0.010	11.927		
T	1,1,2-Trichloro-1,2,2-Trifluoroethane			0.156	0.172	0.203	0.232	0.223	0.230	0.224	0.231	0.209	14.082		
T	Acetone					0.031	0.032	0.033	0.029	0.030	0.029	0.031	4.496		
C	1,1-Dichloroethene		0.426	0.281	0.308	0.359	0.383	0.371	0.386	0.379	0.392	0.365	12.188		
T	Tert-Butyl Alcohol				0.007	0.008	0.008	0.008	0.007		0.007	0.008	4.518		
T	Dimethyl Sulfide		0.192	0.182	0.159	0.194	0.209	0.206	0.213	0.217	0.219	0.199	9.863		
T	Iodomethane			0.120	0.117	0.143	0.172	0.178	0.181	0.186	0.176	0.159	17.814	0.999	
T	Methyl acetate					0.127	0.123	0.118	0.121	0.116	0.126	0.122	3.478		
T	Methylene Chloride			0.237	0.216	0.229	0.232	0.229	0.234	0.231	0.235	0.230	2.784		
T	Carbon Disulfide			0.547	0.527	0.689	0.696	0.681	0.697	0.722	0.693	0.656	11.413		
T	Acrylonitrile			0.036	0.043	0.042	0.048	0.050	0.051			0.045	12.593		
T	Methyl Tert Butyl Ether			0.383	0.387	0.434	0.448	0.446	0.436	0.420	0.421	0.422	5.860		
T	trans-1,2-Dichloroethene		0.397	0.292	0.301	0.334	0.371	0.361	0.373	0.368	0.380	0.353	10.250		
T	n-Hexane					0.331	0.355	0.338	0.346	0.361	0.364	0.349	3.806		
T	Diisopropyl ether			0.820	0.843	0.868	0.886	0.874	0.879		0.836	0.858	2.929		
T	Vinyl Acetate		0.177	0.165	0.158	0.188	0.206	0.206	0.202	0.198	0.198	0.189	9.472		
P	1,1-Dichloroethane		0.503	0.364	0.400	0.466	0.475	0.470	0.488	0.476	0.482	0.458	9.948		
T	Ethyl-Tert-Butyl ether			0.616	0.653	0.676	0.696	0.682	0.683		0.654	0.666	4.034		
T	2-Butanone					0.049	0.052	0.052	0.053	0.051	0.054	0.052	2.966		
T	Propionitrile			0.012	0.014	0.015	0.017	0.016	0.016		0.017	0.015	11.007		
T	2,2-Dichloropropane		0.358	0.303	0.299	0.394	0.398	0.381	0.396	0.379	0.384	0.366	10.613		
T	cis-1,2-Dichloroethene		0.215	0.212	0.204	0.257	0.266	0.256	0.263	0.257	0.265	0.244	10.533		
C	Chloroform	0.431	0.414	0.382	0.365	0.421	0.441	0.432	0.436	0.423	0.422	0.417	5.857		
T	1-Bromopropane			0.018	0.028	0.034	0.038	0.038	0.040	0.042	0.042	0.035	22.984	0.999	
T	Bromochloromethane		0.095	0.116	0.108	0.119	0.130	0.129	0.132	0.128	0.128	0.120	10.230		
T	Tetrahydrofuran			0.035	0.034	0.033	0.035	0.034	0.035		0.036	0.035	2.570		
S	Dibromofluoromethane			0.220	0.232	0.247	0.220	0.234	0.234	0.232	0.237	0.232	3.852		
T	1,1,1-Trichloroethane		0.400	0.341	0.335	0.391	0.417	0.406	0.429	0.419	0.423	0.396	8.827		
T	Cyclohexane			0.306	0.337	0.418	0.444	0.435	0.447	0.483	0.487	0.420	15.512	0.999	
T	1,1-Dichloropropene			0.234	0.259	0.317	0.348	0.335	0.352	0.343	0.349	0.317	14.351		
T	Tert-Amyl-Methyl ether			0.461	0.482	0.496	0.514	0.508	0.507		0.497	0.495	3.675		
T	Carbon Tetrachloride		0.377	0.28	0.295	0.37	0.387	0.375	0.389	0.37	0.381	0.3583	11.422		
S	1,2-Dichloroethane-d4			0.225	0.203	0.237	0.224	0.237	0.23	0.229	0.23	0.2269	4.73044		
T	Heptane											0	0		
T	1,2-Dichloroethane		0.252	0.255	0.265	0.286	0.302	0.301	0.299	0.294	0.296	0.2834	7.17265		
T	Benzene	1.009	1.011	0.789	0.812	0.929	0.962	0.925	0.948	0.88	0.825	0.9091	8.74161		
T	Trichloroethene		0.221	0.175	0.181	0.221	0.251	0.238	0.252	0.246	0.251	0.2262	13.224		
T	Methylcyclohexane					0.347	0.379	0.357	0.365	0.383	0.382	0.3687	4.05367		
C	1,2-Dichloropropane		0.236	0.232	0.224	0.243	0.261	0.261	0.27	0.27	0.272	0.2522	7.32208		
T	Bromodichloromethane		0.296	0.264	0.264	0.308	0.337	0.335	0.338	0.33	0.33	0.3114	9.75228		
T	1,4-Dioxane				0.001	0.001	0.001	0.001	0.001		0.001	0.0008	15.3298	0.990	
T	Dibromomethane		0.097	0.12	0.108	0.117	0.122	0.122	0.121	0.121	0.121	0.1166	7.39601		
T	2-Chloroethyl Vinyl Ether					0.1	0.111	0.113	0.114	0.111	0.113	0.1102	4.80127		
T	4-Methyl-2-Pentanone					0.039	0.049	0.049	0.048	0.048	0.049	0.0469	8.61702		
T	cis-1,3-Dichloropropene		0.313	0.297	0.307	0.34	0.373	0.373	0.374	0.366	0.365	0.3453	9.17658		

T	Dimethyl Disulfide					0.153	0.191	0.196	0.198	0.207	0.209	0.1923	10.6171	
I	Chlorobenzene-d5	ISTD												
S	Toluene-d8			1.263	1.245	1.245	1.155	1.277	1.267	1.214	1.228	1.2367	3.15062	
C	Toluene		1.46	1.249	1.226	1.46	1.512	1.466	1.473	1.321	1.223	1.3767	8.73004	
T	Ethyl Methacrylate			0.199	0.211	0.231	0.284	0.284	0.278	0.268	0.278	0.2539	13.6885	
T	Paraldehyde											0	0	
T	trans-1,3-Dichloropropene			0.352	0.377	0.409	0.455	0.46	0.459	0.438	0.447	0.4247	9.71478	
T	1,1,2-Trichloroethane		0.183	0.201	0.175	0.22	0.23	0.23	0.229	0.219	0.228	0.2128	9.92795	
T	2-Hexanone					0.055	0.06	0.065	0.063	0.061	0.064	0.0615	5.72058	
T	1,3-Dichloropropane		0.34	0.31	0.337	0.4	0.404	0.397	0.4	0.378	0.389	0.3728	9.28151	
T	Tetrachloroethene		0.275	0.208	0.235	0.293	0.304	0.297	0.308	0.297	0.314	0.2813	12.8776	
T	Dibromochloromethane		0.232	0.22	0.224	0.29	0.316	0.313	0.317	0.306	0.313	0.2813	15.2126	
T	1,2-Dibromoethane		0.209	0.167	0.182	0.208	0.216	0.219	0.217	0.209	0.215	0.2048	8.71129	
T	1-Chlorohexane		0.527	0.326	0.33	0.449	0.475	0.471	0.47	0.484	0.491	0.4471	15.8075	0.999
P	Chlorobenzene		1.048	0.86	0.79	0.945	0.948	0.944	0.961	0.915	0.897	0.9231	7.77765	
T	1,1,1,2-Tetrachloroethane		0.28	0.269	0.286	0.337	0.353	0.357	0.373	0.373	0.393	0.3357	13.702	
C	Ethylbenzene		0.528	0.423	0.428	0.501	0.545	0.534	0.564	0.561	0.59	0.5193	11.2974	
T	m-,p-Xylene		0.699	0.539	0.513	0.616	0.653	0.642	0.656	0.616	0.571	0.6116	9.82623	
T	o-Xylene			0.474	0.515	0.611	0.629	0.616	0.636	0.626	0.639	0.5933	10.5773	
T	Styrene		0.905	0.746	0.844	0.942	1.055	1.05	1.061	1.007	0.972	0.9535	11.244	
P	Bromoform			0.114	0.152	0.153	0.184	0.186	0.191	0.185	0.192	0.1697	16.2369	1.000
T	Isopropylbenzene		1.61	1.272	1.292	1.586	1.667	1.614	1.605	1.441	1.306	1.4882	10.8043	
I	1,4-Dichlorobenzene-d4	ISTD												
P	1,1,2,2-Tetrachloroethane		0.386	0.402	0.372	0.435	0.452	0.456	0.44	0.431	0.424	0.4219	6.95201	
S	p-Bromofluorobenzene			0.918	0.918	0.891	0.854	0.904	0.891	0.881	0.889	0.8932	2.34802	
T	1,2,3-Trichloropropane			0.117	0.119	0.115	0.131	0.125	0.125	0.12	0.118	0.1211	4.47518	
T	trans-1,4-Dichloro-2-Butene			0.095	0.096	0.121	0.155	0.161	0.154	0.153	0.154	0.1362	20.337	1.000
T	n-Propylbenzene		4.03	3.065	3.156	3.672	3.824	3.67	3.568	3.065	2.531	3.3979	13.9245	
T	Bromobenzene	0.724	0.761	0.628	0.626	0.691	0.714	0.702	0.702	0.698	0.688	0.6933	5.88034	
T	1,3,5-Trimethylbenzene		2.541	2.156	2.067	2.525	2.61	2.515	2.504	2.336	2.073	2.3697	9.16102	
T	2-Chlorotoluene		2.131	2.015	2.074	2.293	2.348	2.255	2.271	2.1	1.824	2.1457	7.69311	
T	4-Chlorotoluene		2.546	2.139	1.896	2.215	2.339	2.262	2.219	2.093	1.849	2.1734	9.86535	
T	a-Methylstyrene					1.141	1.295	1.293	1.269	1.302	1.243	1.2572	4.84971	
T	tert-Butylbenzene			0.401	0.377	0.479	0.522	0.508	0.519	0.526	0.53	0.4829	12.482	
T	1,2,4-Trimethylbenzene		2.628	2.206	2.115	2.495	2.684	2.582	2.553	2.382	2.094	2.4156	9.35324	
T	sec-Butylbenzene			2.38	2.492	3.151	3.236	3.114	3.076	2.768	2.373	2.8239	12.9665	
T	p-Isopropyltoluene			2.156	2.145	2.651	2.801	2.662	2.651	2.435	2.13	2.454	11.2221	
T	1,3-Dichlorobenzene		1.411	1.282	1.269	1.398	1.481	1.431	1.439	1.39	1.318	1.3801	5.34231	
T	1,4-Dichlorobenzene	1.741	1.482	1.258	1.291	1.385	1.447	1.406	1.413	1.363	1.294	1.408	9.75569	
T	n-Butylbenzene			2.238	2.049	2.551	2.772	2.606	2.58	2.382	2.072	2.4064	11.0289	
T	1,2-Dichlorobenzene	1.257	1.322	1.109	1.192	1.231	1.316	1.265	1.249	1.218	1.164	1.2323	5.32001	
T	1,2-Dibromo-3-Chloropropane				0.063	0.074	0.076	0.08	0.077	0.076	0.076	0.0746	7.1833	
T	1,2,4-Trichlorobenzene		0.984	0.817	0.843	0.928	0.975	0.951	0.954	0.941	0.913	0.923	6.21012	
T	Hexachlorobutadiene		0.686	0.404	0.344	0.459	0.473	0.463	0.469	0.463	0.46	0.469	19.5417	1.000
T	Naphthalene		1.209	1.125	1.088	1.186	1.343	1.312	1.272	1.248	1.17	1.2168	6.94375	
T	1,2,3-Trichlorobenzene	0.85	0.953	0.727	0.723	0.784	0.835	0.809	0.797	0.787	0.761	0.8026	8.32679	

Wed Jul 08 10:36:39 2015

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L15061450 Run Date: 07/02/2015 Sample ID: WG529657-12
Instrument ID: HPMS8 Run Time: 20:52 Method: 8260B
File ID: 8M405876 Analyst: ADC/ JDS QC Key: DOD4
ICal Workgroup: WG529657 Cal ID: HPMS8 - 02-JUL-15

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	51.1	ug/L	0.373	2.10	20	
1,2-Dichloropropane	CCC	50.0	53.8	ug/L	0.271	7.60	20	
Chloroform	CCC	50.0	52.3	ug/L	0.436	4.70	20	
Ethylbenzene	CCC	50.0	52.7	ug/L	0.547	5.40	20	
Toluene	CCC	50.0	54.7	ug/L	1.51	9.30	20	
Vinyl Chloride	CCC	50.0	52.8	ug/L	0.400	5.70	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	52.6	ug/L	0.444	5.20	20	
1,1-Dichloroethane	SPCC	50.0	52.0	ug/L	0.476	4.00	20	
Bromoform	SPCC	50.0	49.3	ug/L	0.185	1.40	20	
Chlorobenzene	SPCC	50.0	49.0	ug/L	0.905	2.00	20	
Chloromethane	SPCC	50.0	51.3	ug/L	0.504	2.60	20	
1,1,1-Trichloroethane		50.0	53.2	ug/L	0.421	6.50	20	
1,1,2-Trichloroethane		50.0	53.8	ug/L	0.229	7.50	20	
1,2,4-Trichlorobenzene		50.0	50.8	ug/L	0.938	1.70	20	
1,2,4-Trimethylbenzene		50.0	55.4	ug/L	2.68	10.8	20	
1,2-Dichloroethane		50.0	51.5	ug/L	0.292	3.00	20	
1,3,5-Trimethylbenzene		50.0	55.7	ug/L	2.64	11.4	20	
2-Butanone		50.0	54.1	ug/L	0.0561	8.20	20	
2-Hexanone		50.0	51.8	ug/L	0.0637	3.70	20	
4-Methyl-2-Pentanone		50.0	53.3	ug/L	0.0499	6.50	20	
Acetone		50.0	48.7	ug/L	0.0299	2.50	20	
Benzene		50.0	53.3	ug/L	0.970	6.70	20	
Bromodichloromethane		50.0	52.6	ug/L	0.328	5.20	20	
Bromomethane		50.0	56.3	ug/L	0.190	12.6	20	
Carbon Disulfide		50.0	51.8	ug/L	0.680	3.60	20	
Carbon Tetrachloride		50.0	52.3	ug/L	0.375	4.70	20	
Chloroethane		50.0	62.2	ug/L	0.202	24.3	20	*
cis-1,2-Dichloroethene		50.0	54.0	ug/L	0.263	8.00	20	
cis-1,3-Dichloropropene		50.0	56.1	ug/L	0.388	12.3	20	
Cyclohexane		50.0	49.3	ug/L	0.465	1.30	30	
Dibromochloromethane		50.0	48.3	ug/L	0.300	3.40	20	
Isopropylbenzene		50.0	52.3	ug/L	1.56	4.60	20	
m-,p-Xylene		100	104	ug/L	0.635	3.90	20	
Methylcyclohexane		50.0	53.3	ug/L	0.393	6.70	30	
Methylene Chloride		50.0	52.0	ug/L	0.240	4.10	20	
Methyl Tert Butyl Ether		50.0	53.7	ug/L	0.453	7.40	20	
n-Butylbenzene		50.0	55.5	ug/L	2.67	11.1	20	
n-Propylbenzene		50.0	52.1	ug/L	3.54	4.30	20	
Naphthalene		50.0	52.2	ug/L	1.27	4.40	20	
o-Xylene		50.0	50.6	ug/L	0.600	1.20	20	
p-Isopropyltoluene		50.0	51.5	ug/L	2.53	2.90	20	
sec-Butylbenzene		50.0	53.0	ug/L	2.99	6.00	20	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4272815
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L15061450 Run Date: 07/02/2015 Sample ID: WG529657-12
Instrument ID: HPMS8 Run Time: 20:52 Method: 8260B
File ID: 8M405876 Analyst: ADC/ JDS QC Key: DOD4
ICal Workgroup: WG529657 Cal ID: HPMS8 - 02-JUL-15

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Styrene		50.0	55.2	ug/L	1.05	10.4	20	
tert-Butylbenzene		50.0	51.3	ug/L	0.495	2.50	20	
Tetrachloroethene		50.0	53.7	ug/L	0.302	7.50	20	
trans-1,2-Dichloroethene		50.0	54.6	ug/L	0.385	9.10	20	
trans-1,3-Dichloropropene		50.0	51.2	ug/L	0.435	2.50	20	
Trichloroethene		50.0	55.7	ug/L	0.252	11.4	20	
Vinyl Acetate		50.0	71.9	ug/L	0.271	43.8	40	*

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4272815
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L15061450 Run Date: 07/03/2015 Sample ID: WG529902-02

Instrument ID: HPMS8 Run Time: 14:42 Method: 8260B

File ID: 8M405878 Analyst: ADC/ JDS QC Key: DOD4

Workgroup (AAB#): WG529903 Cal ID: HPMS8 - 02-JUL-15

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	52.8	ug/L	0.386	5.62	20	
1,2-Dichloropropane	CCC	50.0	51.9	ug/L	0.262	3.75	20	
Chloroform	CCC	50.0	51.5	ug/L	0.429	2.97	20	
Ethylbenzene	CCC	50.0	51.4	ug/L	0.534	2.83	20	
Toluene	CCC	50.0	54.2	ug/L	1.49	8.40	20	
Vinyl Chloride	CCC	50.0	49.0	ug/L	0.371	1.92	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	50.3	ug/L	0.424	0.503	20	
1,1-Dichloroethane	SPCC	50.0	52.7	ug/L	0.483	5.45	20	
Bromoform	SPCC	50.0	45.9	ug/L	0.172	8.11	20	
Chlorobenzene	SPCC	50.0	51.3	ug/L	0.947	2.56	20	
Chloromethane	SPCC	50.0	48.3	ug/L	0.475	3.36	20	
Xylenes		150	159	ug/L	0.637	5.78	20	
1,1,1-Trichloroethane		50.0	52.6	ug/L	0.416	5.22	20	
1,1,2-Trichloroethane		50.0	50.6	ug/L	0.215	1.18	20	
1,2,4-Trichlorobenzene		50.0	51.1	ug/L	0.944	2.22	20	
1,2,4-Trimethylbenzene		50.0	55.5	ug/L	2.68	11.1	20	
1,2-Dichloroethane		50.0	50.1	ug/L	0.284	0.271	20	
1,3,5-Trimethylbenzene		50.0	55.3	ug/L	2.62	10.6	20	
2-Butanone		50.0	49.2	ug/L	0.0511	1.53	20	
2-Hexanone		50.0	47.4	ug/L	0.0583	5.12	20	
4-Methyl-2-Pentanone		50.0	48.0	ug/L	0.0450	3.99	20	
Acetone		50.0	54.7	ug/L	0.0336	9.39	20	
Benzene		50.0	52.2	ug/L	0.949	4.41	20	
Bromodichloromethane		50.0	52.6	ug/L	0.327	5.15	20	
Bromomethane		50.0	53.5	ug/L	0.181	7.04	20	
Carbon Disulfide		50.0	56.3	ug/L	0.740	12.7	20	
Carbon Tetrachloride		50.0	52.7	ug/L	0.378	5.45	20	
Chloroethane		50.0	57.2	ug/L	0.186	14.3	20	
cis-1,2-Dichloroethene		50.0	53.0	ug/L	0.259	6.03	20	
cis-1,3-Dichloropropene		50.0	52.6	ug/L	0.364	5.26	20	
Cyclohexane		50.0	49.0	ug/L	0.462	1.92	40	
Dibromochloromethane		50.0	47.9	ug/L	0.298	4.20	20	
Isopropylbenzene		50.0	54.7	ug/L	1.63	9.39	20	
m-,p-Xylene		100	106	ug/L	0.648	5.99	20	
Methylcyclohexane		50.0	52.2	ug/L	0.385	4.32	40	
Methylene Chloride		50.0	50.3	ug/L	0.232	0.676	20	
Methyl Tert Butyl Ether		50.0	48.5	ug/L	0.409	3.07	20	
n-Butylbenzene		50.0	57.5	ug/L	2.77	15.0	20	
n-Propylbenzene		50.0	56.5	ug/L	3.84	13.0	20	
Naphthalene		50.0	50.3	ug/L	1.22	0.660	20	
o-Xylene		50.0	52.7	ug/L	0.625	5.37	20	
p-Isopropyltoluene		50.0	57.4	ug/L	2.82	14.7	20	

CCV - Modified 03/05/2008

PDF File ID: 4272817

Report generated 07/10/2015 12:53

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L15061450 Run Date: 07/03/2015 Sample ID: WG529902-02
Instrument ID: HPMS8 Run Time: 14:42 Method: 8260B
File ID: 8M405878 Analyst: ADC/ JDS QC Key: DOD4
Workgroup (AAB#): WG529903 Cal ID: HPMS8 - 02-JUL-15
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
sec-Butylbenzene		50.0	58.1	ug/L	3.28	16.2	20	
Styrene		50.0	54.3	ug/L	1.04	8.66	20	
tert-Butylbenzene		50.0	55.3	ug/L	0.534	10.5	20	
Tetrachloroethene		50.0	53.8	ug/L	0.303	7.68	20	
trans-1,2-Dichloroethene		50.0	51.9	ug/L	0.366	3.72	20	
trans-1,3-Dichloropropene		50.0	51.9	ug/L	0.441	3.77	20	
Trichloroethene		50.0	54.4	ug/L	0.246	8.78	20	
Vinyl Acetate		50.0	53.7	ug/L	0.203	7.39	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 4272817
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L15061450 Run Date: 07/06/2015 Sample ID: WG530075-02
Instrument ID: HPMS8 Run Time: 14:07 Method: 8260B
File ID: 8M405906 Analyst: ADC/ JDS QC Key: DOD4
Workgroup (AAB#): WG530076 Cal ID: HPMS8 - 02-JUL-15
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	54.5	ug/L	0.398	8.91	20	
1,2-Dichloropropane	CCC	50.0	53.3	ug/L	0.269	6.59	20	
Chloroform	CCC	50.0	53.6	ug/L	0.447	7.23	20	
Ethylbenzene	CCC	50.0	51.8	ug/L	0.538	3.56	20	
Toluene	CCC	50.0	54.4	ug/L	1.50	8.83	20	
Vinyl Chloride	CCC	50.0	49.9	ug/L	0.378	0.103	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	52.1	ug/L	0.440	4.21	20	
1,1-Dichloroethane	SPCC	50.0	54.0	ug/L	0.494	7.91	20	
Bromoform	SPCC	50.0	48.1	ug/L	0.181	3.72	20	
Chlorobenzene	SPCC	50.0	52.0	ug/L	0.960	3.95	20	
Chloromethane	SPCC	50.0	48.0	ug/L	0.472	3.90	20	
1,2,4-Trimethylbenzene		50.0	55.5	ug/L	2.68	10.9	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 4272817
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L15061450
Instrument ID: HPMS8
Workgroup (AAB#): WG529903

CCV Number: WG529902-02
CAL ID: HPMS8-02-JUL-15
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG529902-02	NA	NA	296297	548511	795065
Upper Limit	NA	NA	592594	1097022	1590130
Lower Limit	NA	NA	148149	274256	397533
L15061450-01	1.00	01	260520	483821	680302
L15061450-02	1.00	01	245243	460440	648038
L15061450-03	1.00	01	244202	448515	629552
L15061450-04	1.00	01	284113	505376	728474
L15061450-05	1.00	01	277388	516344	740129
L15061450-06	1.00	01	238060	447268	625526
L15061450-07	1.00	01	243812	448525	619383
L15061450-08	1.00	01	251404	453516	634882
L15061450-09	1.00	01	246264	455951	649492
L15061450-10	1.00	01	244658	451214	634451
L15061450-11	1.00	01	279406	448320	638392
L15061450-12	1.00	01	281910	501505	714022
L15061450-13	1.00	01	267092	500303	705618
L15061450-14	1.00	01	262210	493588	694969
L15061450-15	1.00	01	292328	494114	687498
WG529903-01	1.00	01	279262	523612	743694
WG529903-02	1.00	01	276814	508540	732527

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: 4272818
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L15061450
Instrument ID: HPMS8
Workgroup (AAB#): WG530076

CCV Number: WG530075-02
CAL ID: HPMS8-02-JUL-15
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG530075-02	NA	NA	287280	526463	764649
Upper Limit	NA	NA	574560	1052926	1529298
Lower Limit	NA	NA	143640	263232	382325
L15061450-11	2.50	DL01	255068	430549	589246
WG530076-01	1.00	01	248543	465139	651553
WG530076-02	1.00	01	239785	425526	593212
WG530076-03	1.00	01	243004	449930	613705

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: 4272818
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L15061450
Instrument ID: HPMS8
Workgroup (AAB#): WG529903

CCV Number: WG529902-02
CAL ID: HPMS8-02-JUL-15
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG529902-02	NA	NA	17.6	14.58	10.71
Upper Limit	NA	NA	18.1	15.08	11.21
Lower Limit	NA	NA	17.1	14.08	10.21
L15061450-01	1.00	01	17.6	14.58	10.71
L15061450-02	1.00	01	17.6	14.58	10.71
L15061450-03	1.00	01	17.6	14.58	10.71
L15061450-04	1.00	01	17.6	14.58	10.71
L15061450-05	1.00	01	17.6	14.58	10.71
L15061450-06	1.00	01	17.6	14.58	10.71
L15061450-07	1.00	01	17.6	14.58	10.71
L15061450-08	1.00	01	17.6	14.58	10.71
L15061450-09	1.00	01	17.6	14.58	10.71
L15061450-10	1.00	01	17.6	14.58	10.71
L15061450-11	1.00	01	17.6	14.58	10.71
L15061450-12	1.00	01	17.6	14.58	10.71
L15061450-13	1.00	01	17.6	14.58	10.71
L15061450-14	1.00	01	17.6	14.58	10.71
L15061450-15	1.00	01	17.6	14.58	10.71
WG529903-01	1.00	01	17.6	14.58	10.71
WG529903-02	1.00	01	17.6	14.58	10.71

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: 4272820
Report generated 07/10/2015 12:53

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L15061450
Instrument ID: HPMS8
Workgroup (AAB#): WG530076

CCV Number: WG530075-02
CAL ID: HPMS8-02-JUL-15
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG530075-02	NA	NA	17.6	14.58	10.71
Upper Limit	NA	NA	18.1	15.08	11.21
Lower Limit	NA	NA	17.1	14.08	10.21
L15061450-11	2.50	DL01	17.6	14.58	10.71
WG530076-01	1.00	01	17.6	14.58	10.71
WG530076-02	1.00	01	17.6	14.58	10.71
WG530076-03	1.00	01	17.6	14.58	10.71

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: 4272820
Report generated 07/10/2015 12:53

2.1.1.3 Sample Data

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405885.D Vial: 9
Acq On : 3 Jul 2015 18:03 Operator: ADC/ JDS
Sample : L15061450-01 A TB 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:20 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

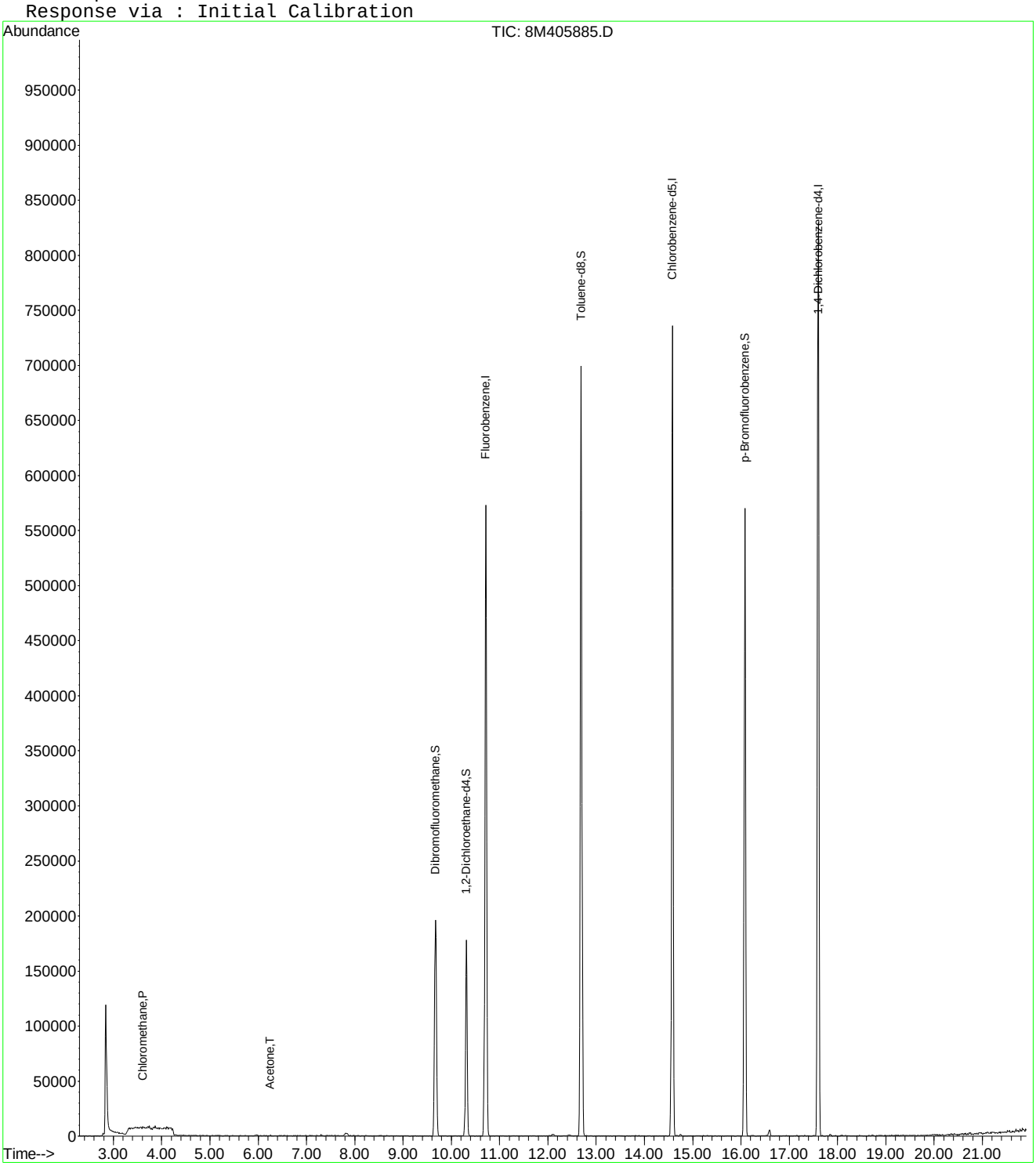
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	680302	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	483821	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	260520	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	158828	25.1649	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.64%			
43) 1,2-Dichloroethane-d4	10.31	65	156643	25.3740	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 101.48%			
58) Toluene-d8	12.69	98	613918	25.6515	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.60%			
80) p-Bromofluorobenzene	16.08	95	237462	25.5128	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.04%			
Target Compounds						Qvalue
3) Chloromethane	3.61	50	2810	0.2103	ug/L #	24
13) Acetone	6.25	43	494	0.5911	ug/L #	48

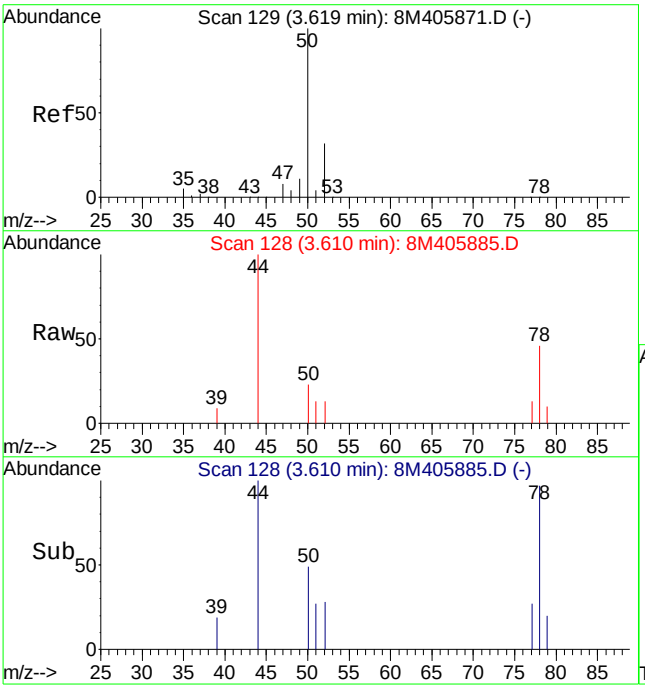
(#) = qualifier out of range (m) = manual integration
8M405885.D 8260WT.M Mon Jul 06 10:26:20 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405885.D Vial: 9
Acq On : 3 Jul 2015 18:03 Operator: ADC/ JDS
Sample : L15061450-01 A TB 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

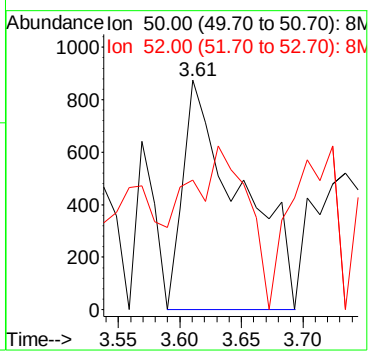


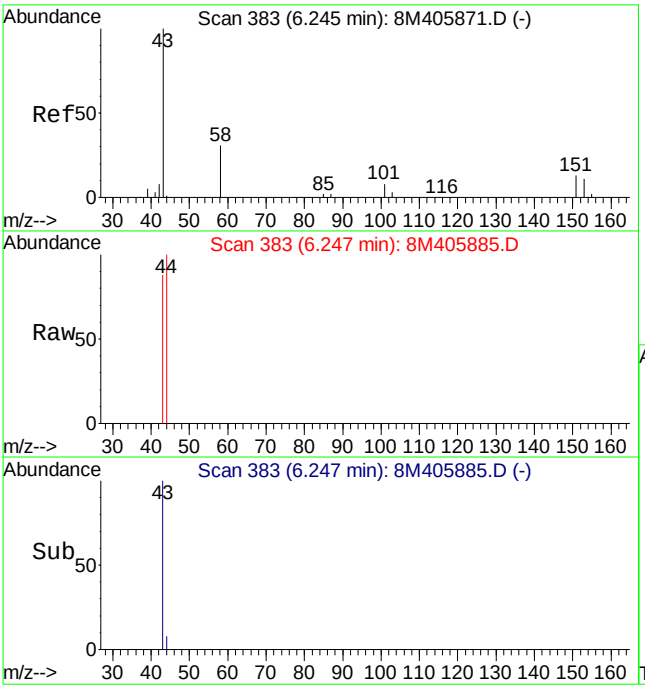


#3
Chloromethane
Concen: 0.21 ug/L
RT: 3.61 min Scan# 128
Delta R.T. -0.01 min
Lab File: 8M405885.D
Acq: 3 Jul 2015 18:03

Tgt Ion: 50 Resp: 2810

Ion	Ratio	Lower	Upper
50	100		
52	74.3	19.2	44.8#

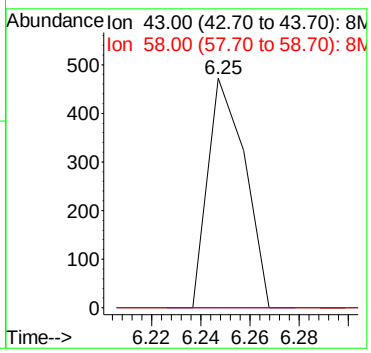




#13
Acetone
Concen: 0.59 ug/L
RT: 6.25 min Scan# 383
Delta R.T. 0.00 min
Lab File: 8M405885.D
Acq: 3 Jul 2015 18:03

Tgt Ion: 43 Resp: 494

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405887.D Vial: 11
Acq On : 3 Jul 2015 19:00 Operator: ADC/ JDS
Sample : L15061450-02 A REF 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:22 2015 Quant Results File: 8260WT.RES

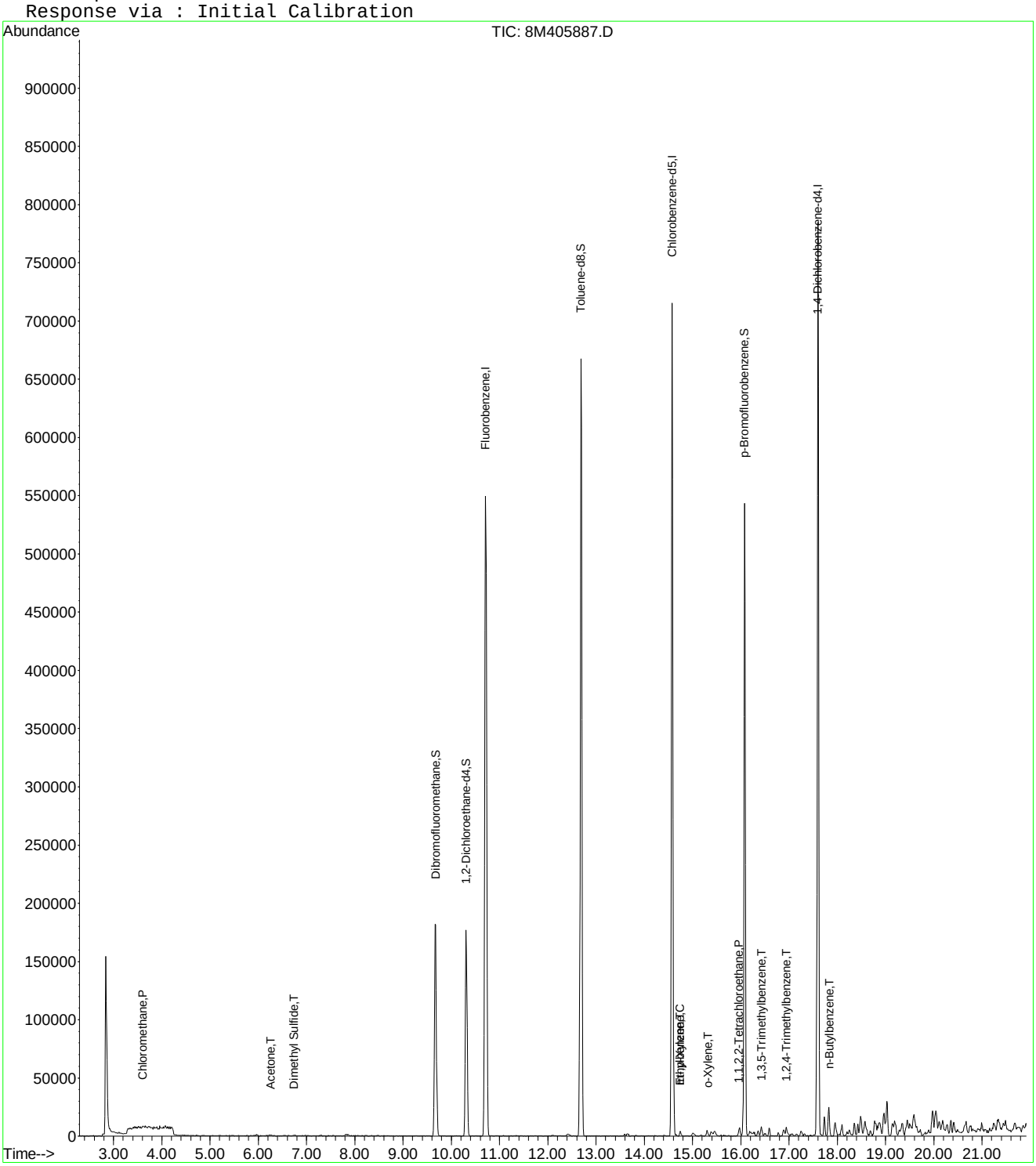
Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

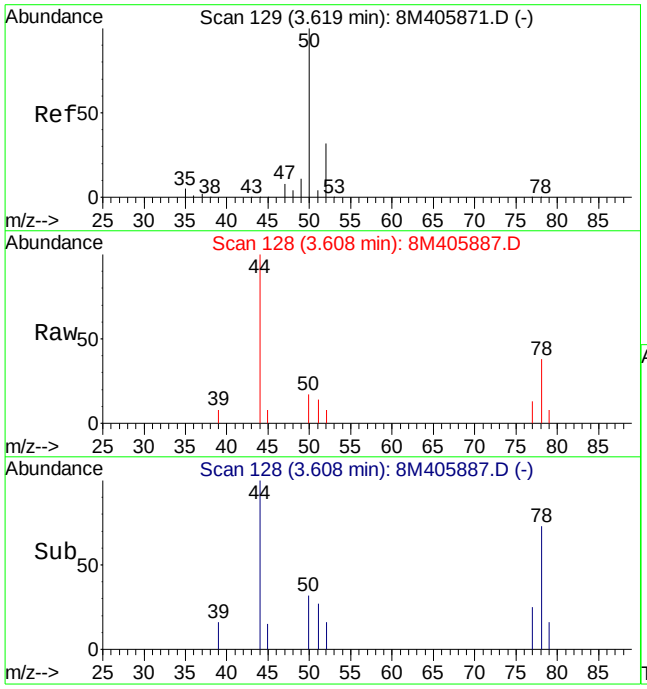
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	648038	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	460440	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	245243	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.68	111	152257	25.3249	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.28%			
43) 1,2-Dichloroethane-d4	10.31	65	153538	26.1093	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 104.44%			
58) Toluene-d8	12.69	98	587549	25.7964	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.20%			
80) p-Bromofluorobenzene	16.08	95	229388	26.1806	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.72%			
Target Compounds						Qvalue
3) Chloromethane	3.61	50	1606	0.1262	ug/L #	1
13) Acetone	6.26	43	1952	2.4518	ug/L #	48
16) Dimethyl Sulfide	6.74	62	695	0.1348	ug/L #	25
72) Ethylbenzene	14.74	106	1820	0.1903	ug/L	69
73) m-,p-Xylene	14.74	106	1820	0.1616	ug/L	62
74) o-Xylene	15.32	106	1712	0.1567	ug/L	92
79) 1,1,2,2-Tetrachloroethane	15.96	83	528	0.1276	ug/L #	26
85) 1,3,5-Trimethylbenzene	16.43	105	8587	0.3694	ug/L	90
90) 1,2,4-Trimethylbenzene	16.95	105	6310	0.2663	ug/L	81
95) n-Butylbenzene	17.83	91	6265	0.2654	ug/L #	1

(#) = qualifier out of range (m) = manual integration
8M405887.D 8260WT.M Mon Jul 06 10:26:22 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070315\8M405887.D Vial: 11
Acq On : 3 Jul 2015 19:00 Operator: ADC/ JDS
Sample : L15061450-02 A REF 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

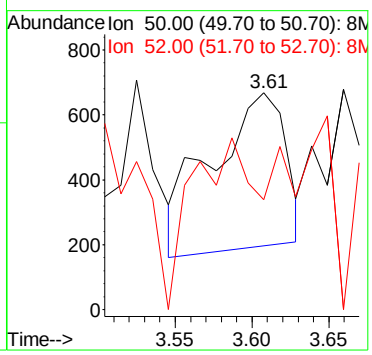


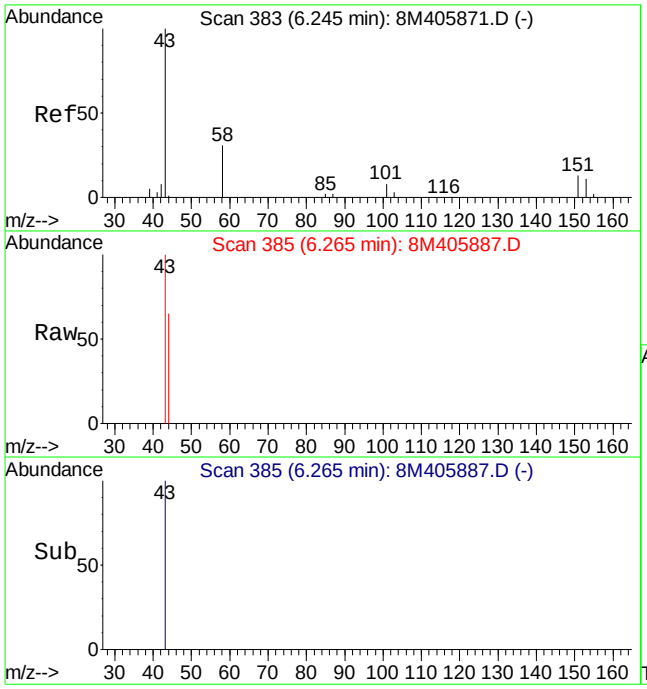


#3
Chloromethane
Concen: 0.13 ug/L
RT: 3.61 min Scan# 128
Delta R.T. -0.01 min
Lab File: 8M405887.D
Acq: 3 Jul 2015 19:00

Tgt Ion: 50 Resp: 1606

Ion	Ratio	Lower	Upper
50	100		
52	95.9	19.2	44.8#

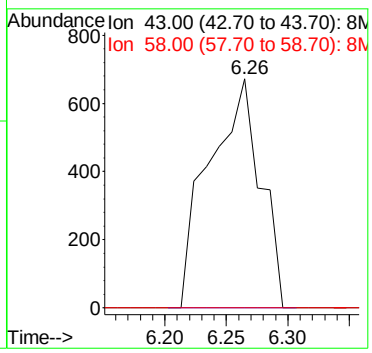


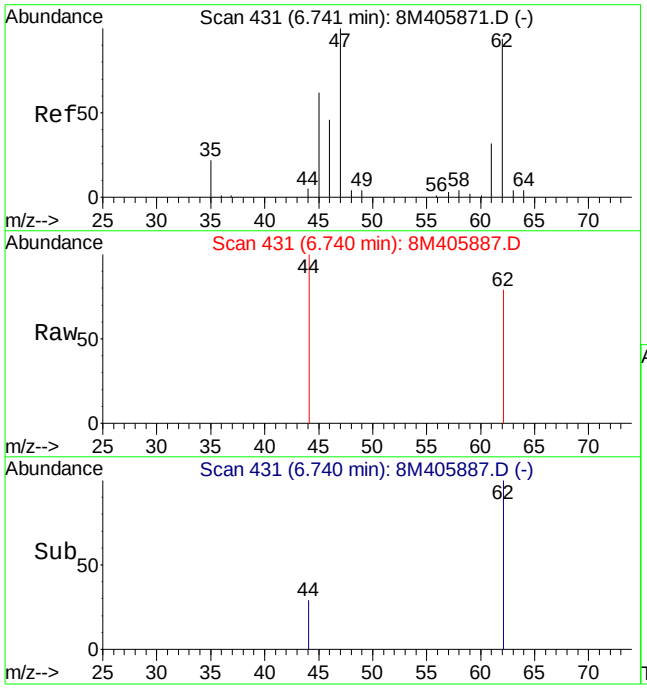


#13
Acetone
Concen: 2.45 ug/L
RT: 6.26 min Scan# 385
Delta R.T. 0.02 min
Lab File: 8M405887.D
Acq: 3 Jul 2015 19:00

Tgt Ion: 43 Resp: 1952

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#

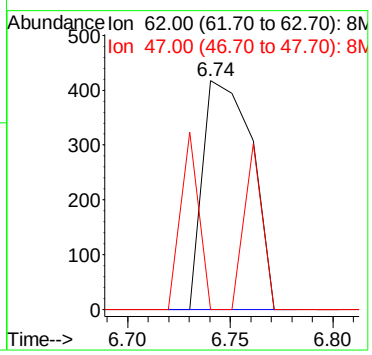


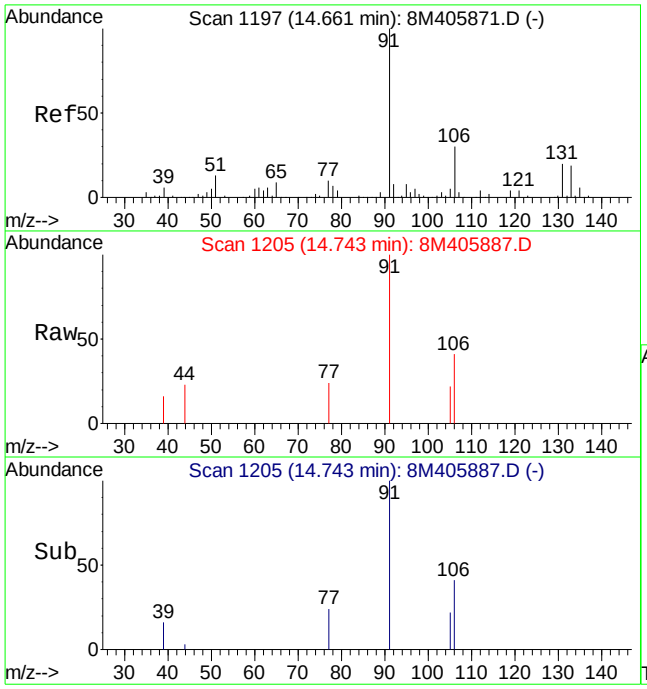


#16
Dimethyl Sulfide
Concen: 0.13 ug/L
RT: 6.74 min Scan# 431
Delta R.T. -0.00 min
Lab File: 8M405887.D
Acq: 3 Jul 2015 19:00

Tgt Ion: 62 Resp: 695

Ion	Ratio	Lower	Upper
62	100		
47	28.9	64.3	149.9#

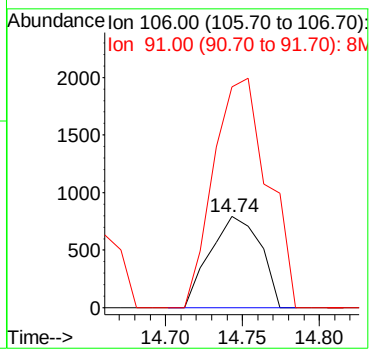


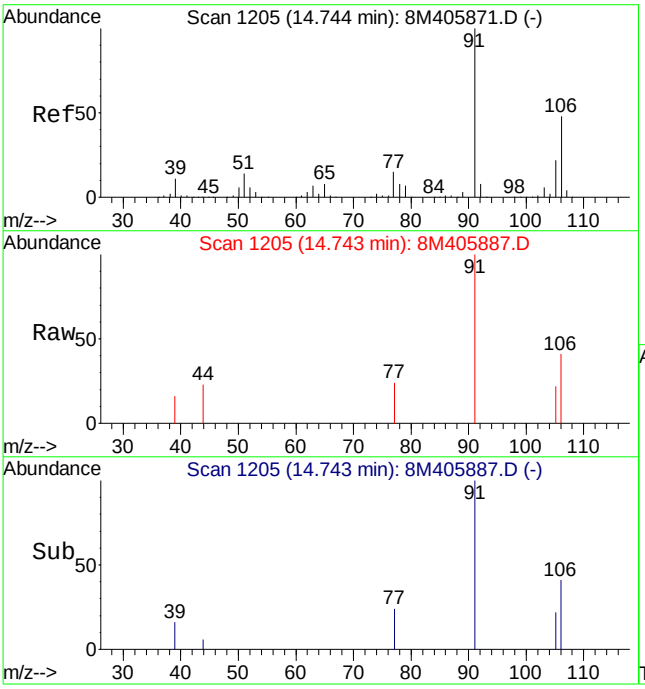


#72
Ethylbenzene
Concen: 0.19 ug/L
RT: 14.74 min Scan# 1205
Delta R.T. 0.08 min
Lab File: 8M405887.D
Acq: 3 Jul 2015 19:00

Tgt Ion:106 Resp: 1820

Ion	Ratio	Lower	Upper
106	100		
91	268.1	199.7	466.1

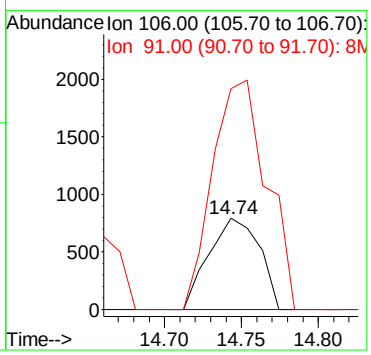


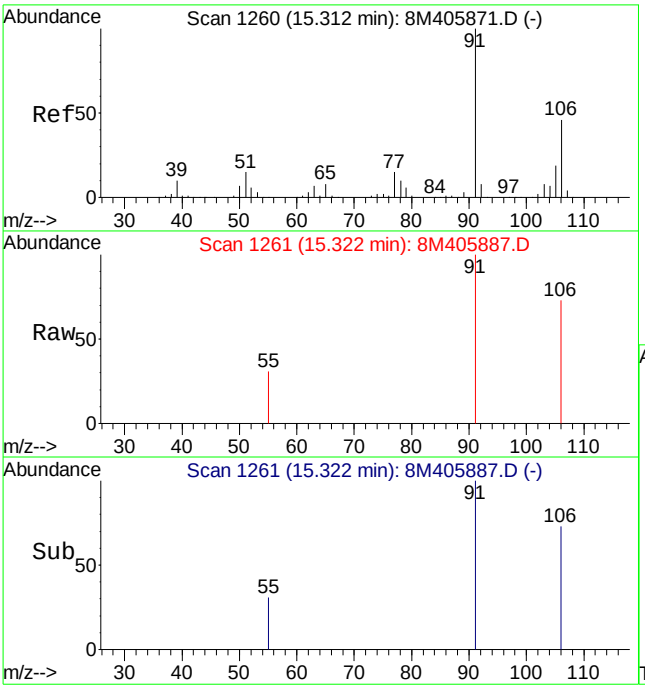


#73
m-,p-Xylene
Concen: 0.16 ug/L
RT: 14.74 min Scan# 1205
Delta R.T. -0.00 min
Lab File: 8M405887.D
Acq: 3 Jul 2015 19:00

Tgt Ion:106 Resp: 1820

Ion	Ratio	Lower	Upper
106	100		
91	268.1	125.1	291.9

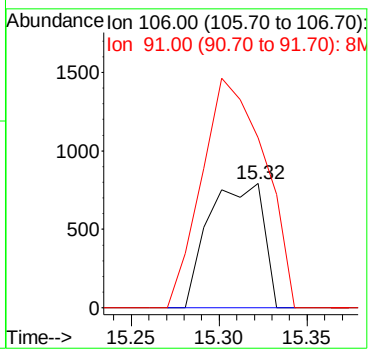


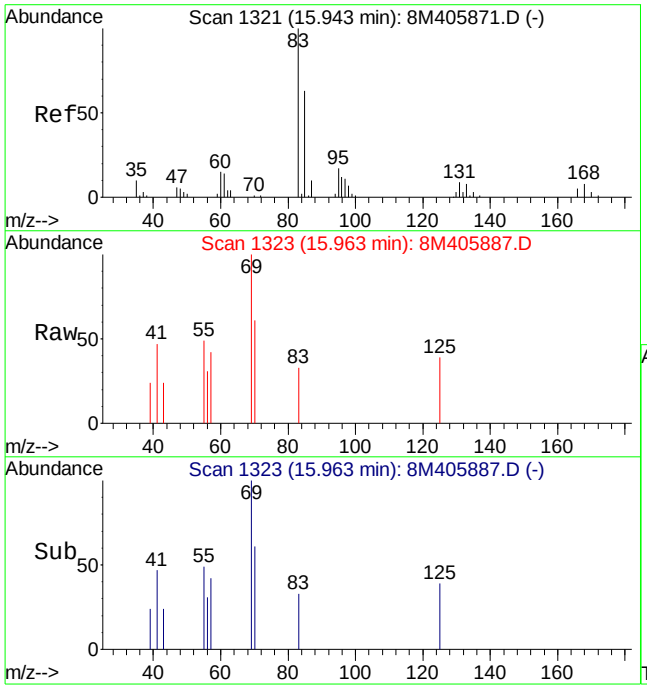


#74
o-Xylene
Concen: 0.16 ug/L
RT: 15.32 min Scan# 1261
Delta R.T. 0.01 min
Lab File: 8M405887.D
Acq: 3 Jul 2015 19:00

Tgt Ion:106 Resp: 1712

Ion	Ratio	Lower	Upper
106	100		
91	211.3	134.3	313.5

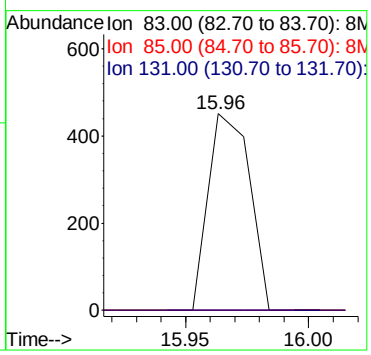


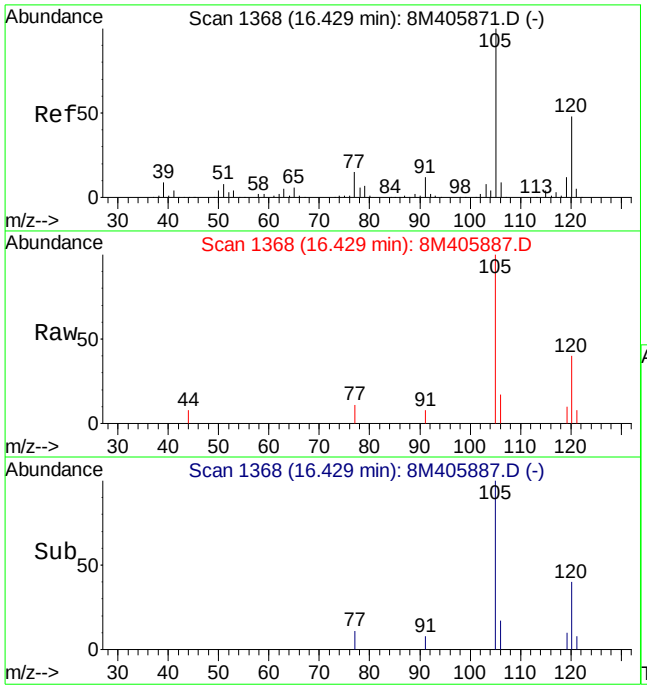


#79
1,1,2,2-Tetrachloroethane
Concen: 0.13 ug/L
RT: 15.96 min Scan# 1323
Delta R.T. 0.02 min
Lab File: 8M405887.D
Acq: 3 Jul 2015 19:00

Tgt Ion: 83 Resp: 528

Ion	Ratio	Lower	Upper
83	100		
85	0.0	38.3	89.3#
131	0.0	5.8	13.4#

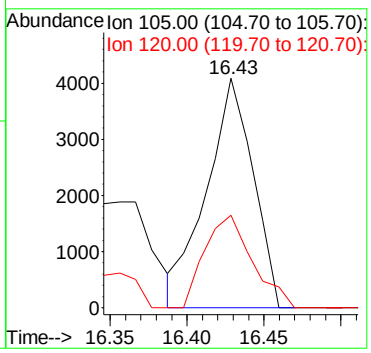


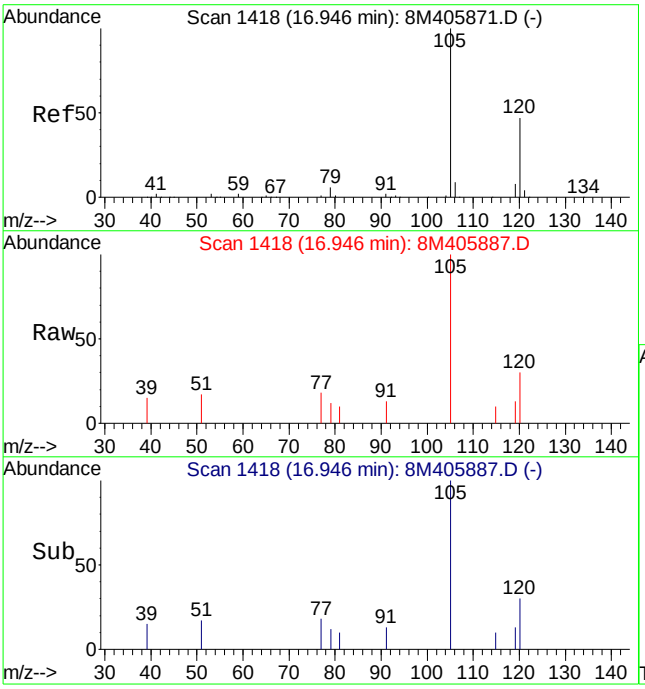


#85
1,3,5-Trimethylbenzene
Concen: 0.37 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.00 min
Lab File: 8M405887.D
Acq: 3 Jul 2015 19:00

Tgt Ion:105 Resp: 8587

Ion	Ratio	Lower	Upper
105	100		
120	41.4	28.8	67.2

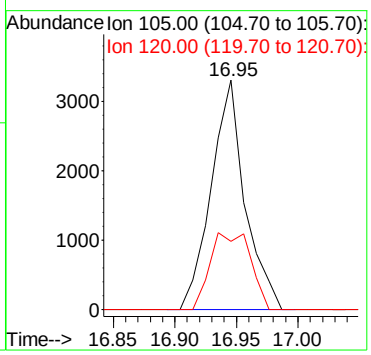


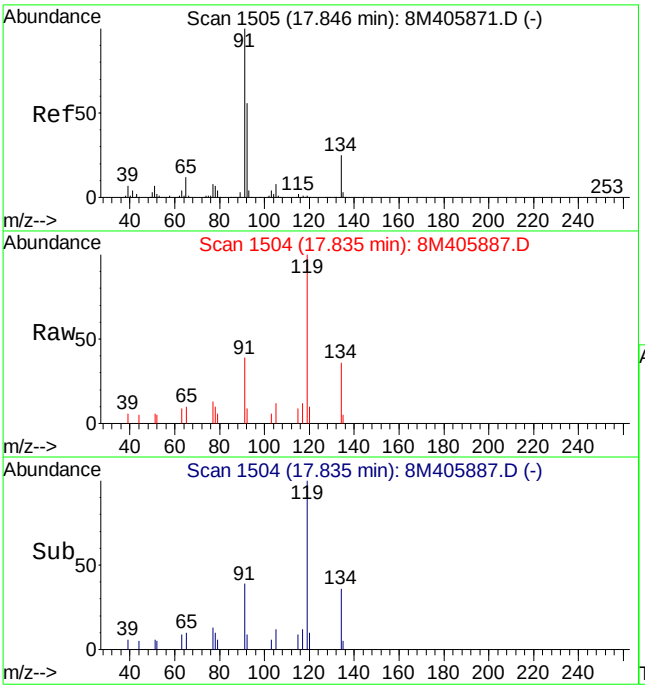


#90
1,2,4-Trimethylbenzene
Concen: 0.27 ug/L
RT: 16.95 min Scan# 1418
Delta R.T. -0.00 min
Lab File: 8M405887.D
Acq: 3 Jul 2015 19:00

Tgt Ion:105 Resp: 6310

Ion	Ratio	Lower	Upper
105	100		
120	40.1	32.3	75.5

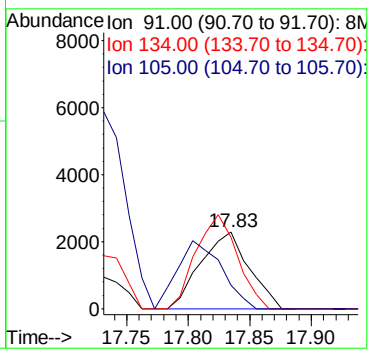




#95
n-Butylbenzene
Concen: 0.27 ug/L
RT: 17.83 min Scan# 1504
Delta R.T. -0.01 min
Lab File: 8M405887.D
Acq: 3 Jul 2015 19:00

Tgt Ion: 91 Resp: 6265

Ion	Ratio	Lower	Upper
91	100		
134	104.9	14.4	33.6#
105	81.1	5.0	11.8#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405888.D Vial: 12
Acq On : 3 Jul 2015 19:29 Operator: ADC/ JDS
Sample : L15061450-03 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:24 2015 Quant Results File: 8260WT.RES

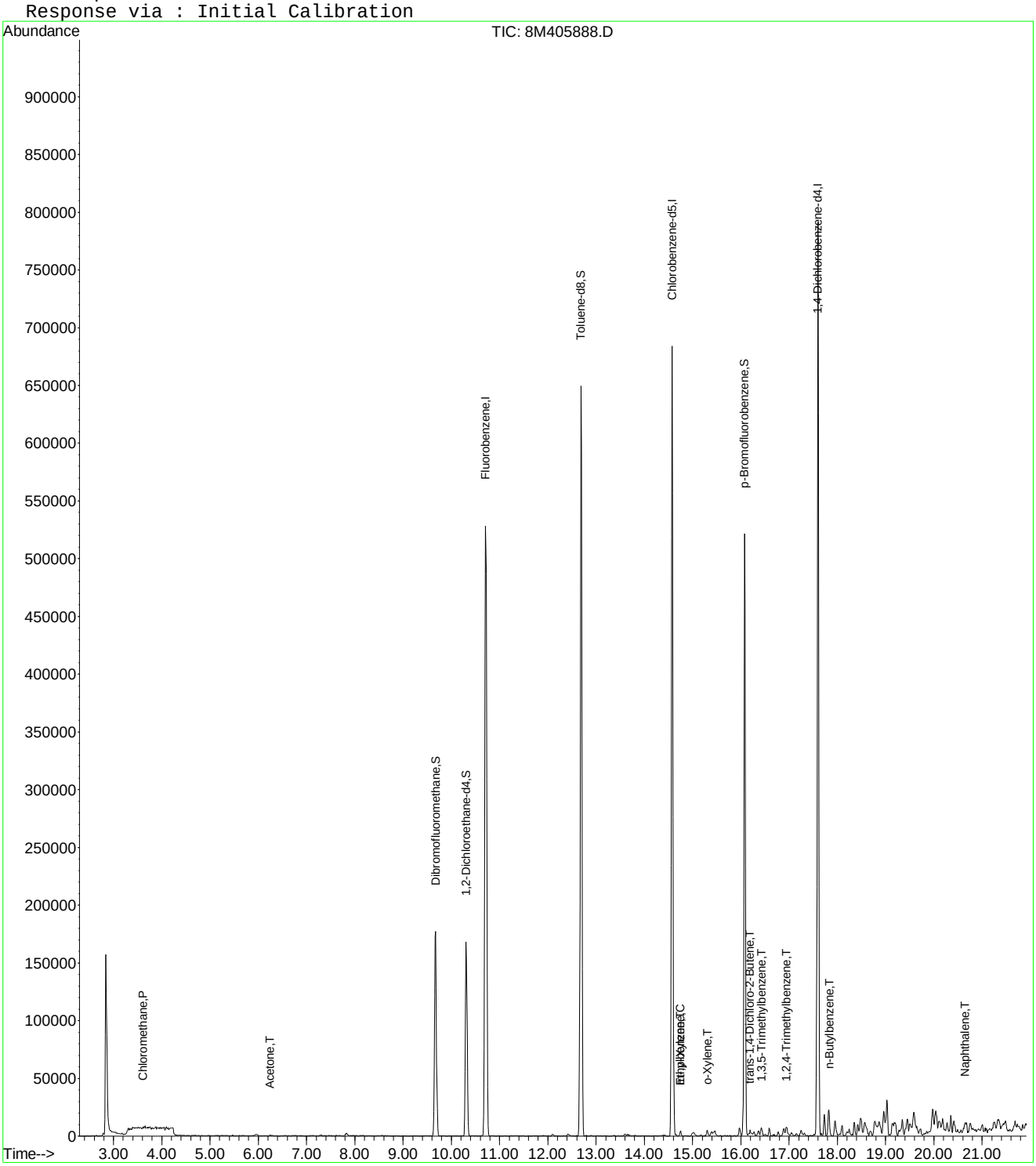
Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

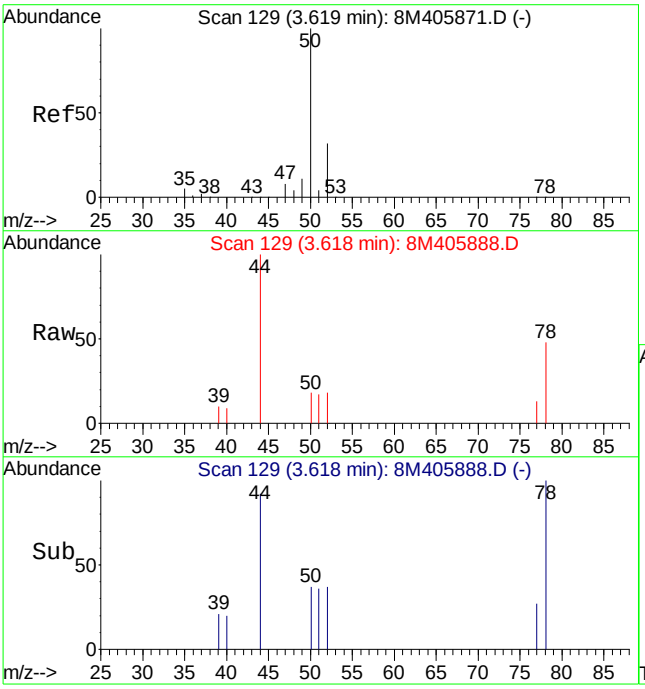
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.71	96	629552	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	448515	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	244202	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.68	111	146402	25.0661 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.28%		
43) 1,2-Dichloroethane-d4	10.31	65	149376	26.1475 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 104.60%		
58) Toluene-d8	12.69	98	575350	25.9324 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.72%		
80) p-Bromofluorobenzene	16.08	95	216922	24.8633 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.44%		
Target Compounds					Qvalue
3) Chloromethane	3.62	50	2275	0.1840 ug/L #	28
13) Acetone	6.24	43	1124	1.4533 ug/L #	48
72) Ethylbenzene	14.75	106	2252	0.2417 ug/L	41
73) m-,p-Xylene	14.75	106	2252	0.2052 ug/L	100
74) o-Xylene	15.31	106	1418	0.1332 ug/L	55
82) trans-1,4-Dichloro-2-Buten	16.19	53	222	0.6818 ug/L #	9
85) 1,3,5-Trimethylbenzene	16.43	105	6861	0.2964 ug/L	97
90) 1,2,4-Trimethylbenzene	16.95	105	6484	0.2748 ug/L	87
95) n-Butylbenzene	17.83	91	6269	0.2667 ug/L #	1
100) Naphthalene	20.65	128	1802	0.1516 ug/L #	67

(#) = qualifier out of range (m) = manual integration
8M405888.D 8260WT.M Mon Jul 06 10:26:24 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070315\8M405888.D Vial: 12
Acq On : 3 Jul 2015 19:29 Operator: ADC/ JDS
Sample : L15061450-03 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

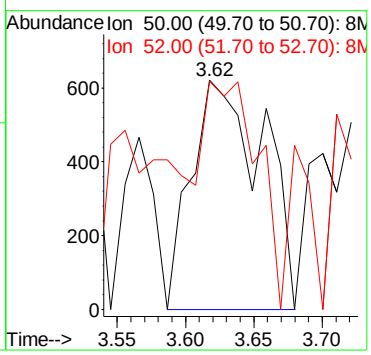


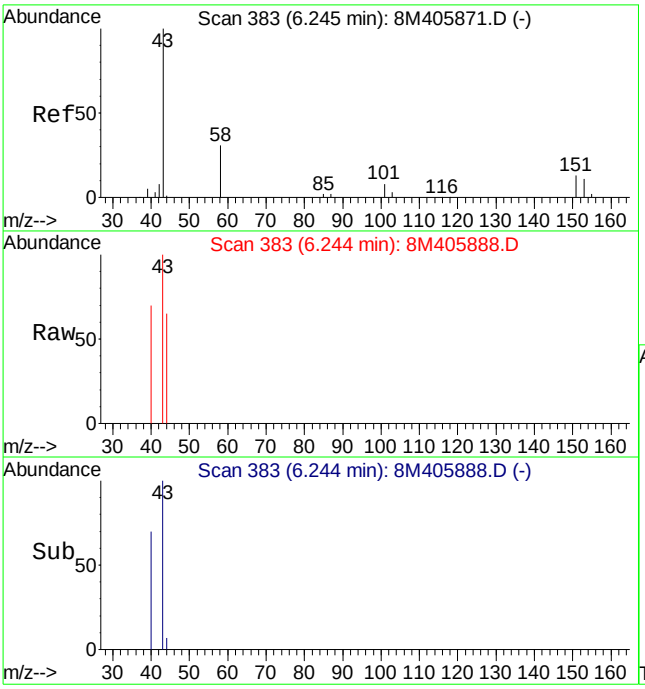


#3
Chloromethane
Concen: 0.18 ug/L
RT: 3.62 min Scan# 129
Delta R.T. -0.00 min
Lab File: 8M405888.D
Acq: 3 Jul 2015 19:29

Tgt Ion: 50 Resp: 2275

Ion	Ratio	Lower	Upper
50	100		
52	72.4	19.2	44.8#

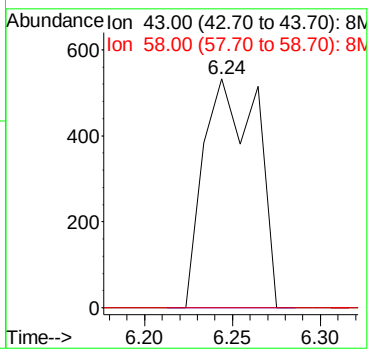


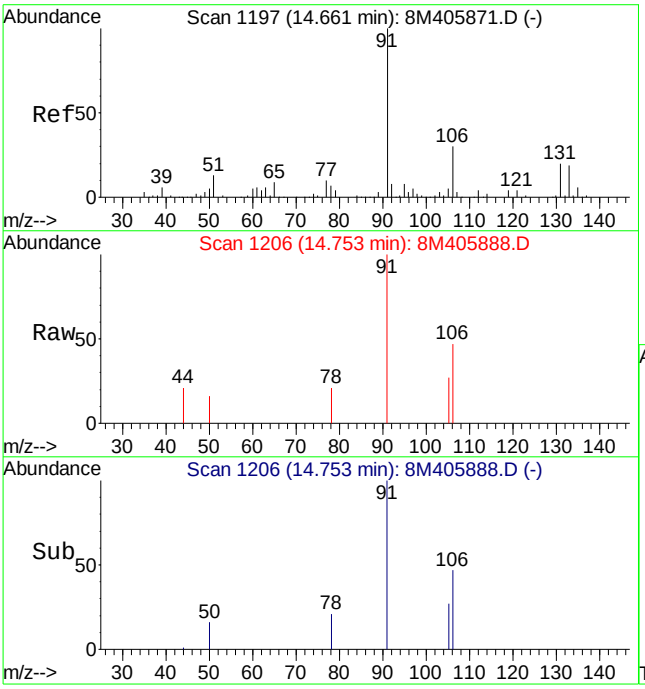


#13
Acetone
Concen: 1.45 ug/L
RT: 6.24 min Scan# 383
Delta R.T. -0.00 min
Lab File: 8M405888.D
Acq: 3 Jul 2015 19:29

Tgt Ion: 43 Resp: 1124

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#

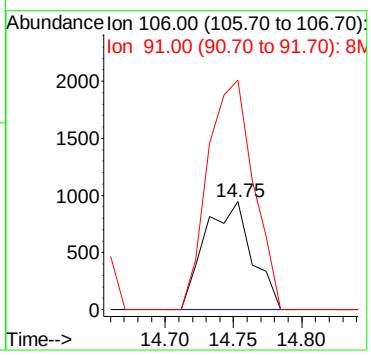


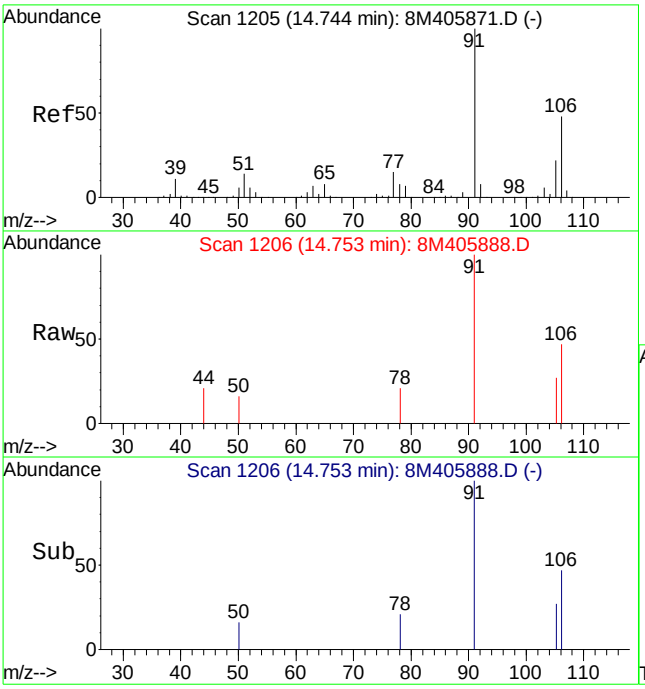


#72
Ethylbenzene
Concen: 0.24 ug/L
RT: 14.75 min Scan# 1206
Delta R.T. 0.09 min
Lab File: 8M405888.D
Acq: 3 Jul 2015 19:29

Tgt Ion:106 Resp: 2252

Ion	Ratio	Lower	Upper
106	100		
91	208.1	199.7	466.1

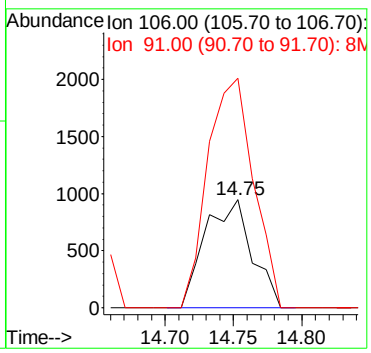


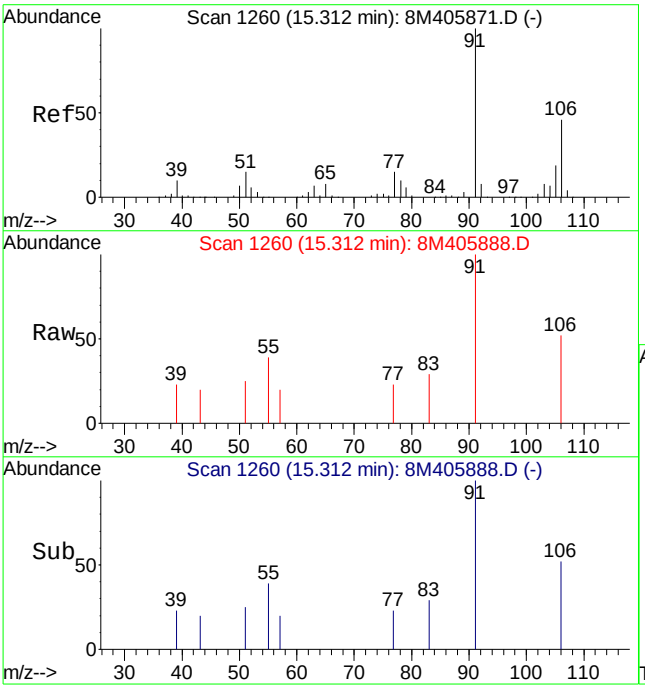


#73
m-,p-Xylene
Concen: 0.21 ug/L
RT: 14.75 min Scan# 1206
Delta R.T. 0.01 min
Lab File: 8M405888.D
Acq: 3 Jul 2015 19:29

Tgt Ion:106 Resp: 2252

Ion	Ratio	Lower	Upper
106	100		
91	208.1	125.1	291.9

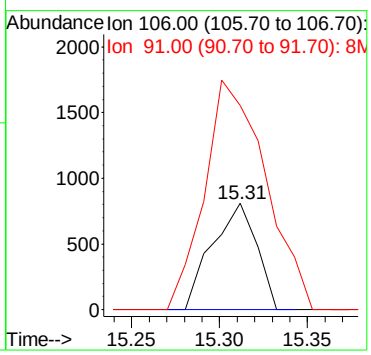


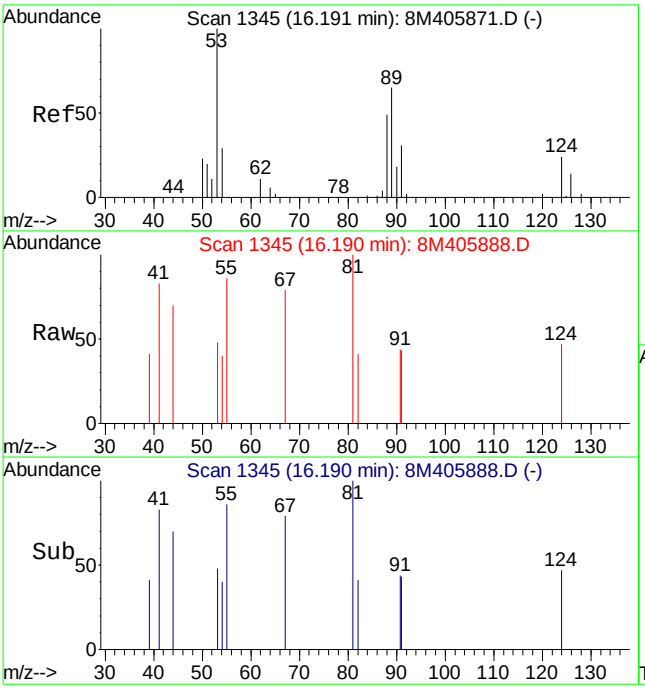


#74
o-Xylene
Concen: 0.13 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. -0.00 min
Lab File: 8M405888.D
Acq: 3 Jul 2015 19:29

Tgt Ion:106 Resp: 1418

Ion	Ratio	Lower	Upper
106	100		
91	297.1	134.3	313.5

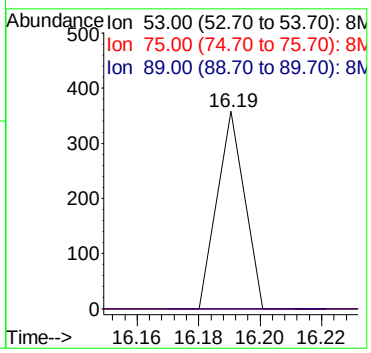


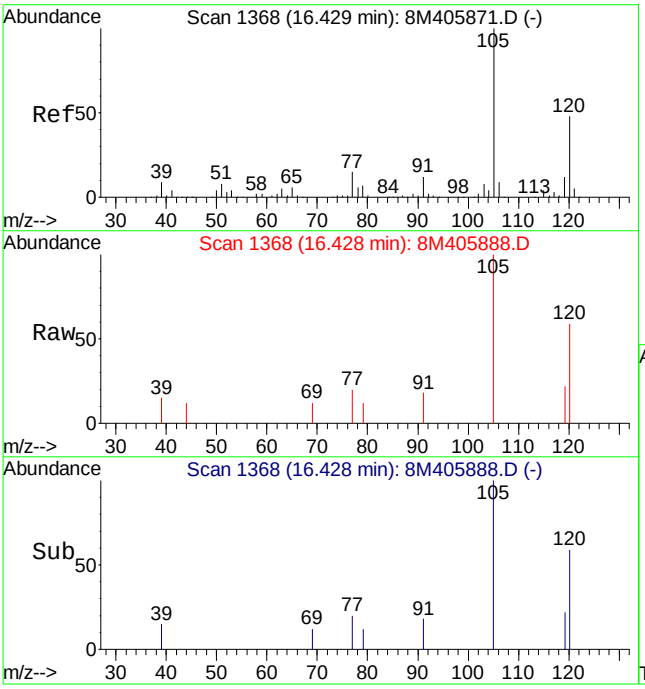


#82
trans-1,4-Dichloro-2-Butene
Concen: 0.68 ug/L
RT: 16.19 min Scan# 1345
Delta R.T. -0.00 min
Lab File: 8M405888.D
Acq: 3 Jul 2015 19:29

Tgt Ion: 53 Resp: 222

Ion	Ratio	Lower	Upper
53	100		
75	0.0	58.5	136.5#
89	0.0	33.5	78.1#

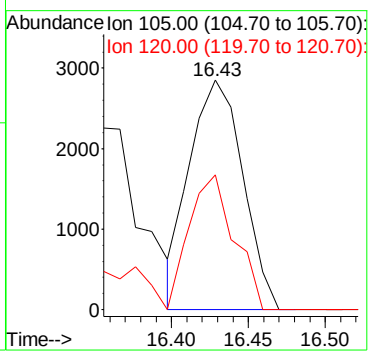


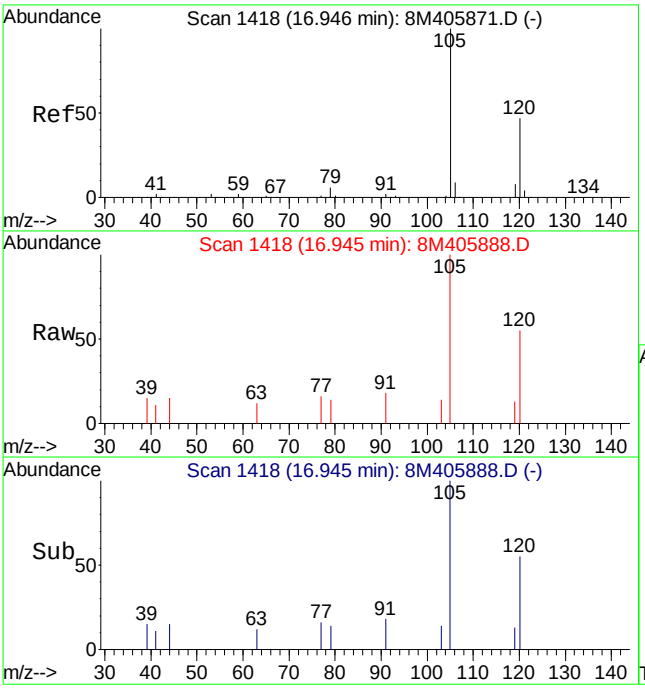


#85
1,3,5-Trimethylbenzene
Concen: 0.30 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.00 min
Lab File: 8M405888.D
Acq: 3 Jul 2015 19:29

Tgt Ion:105 Resp: 6861

Ion	Ratio	Lower	Upper
105	100		
120	49.8	28.8	67.2

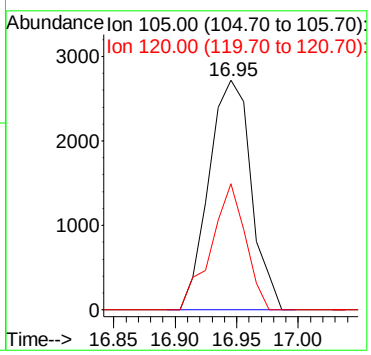


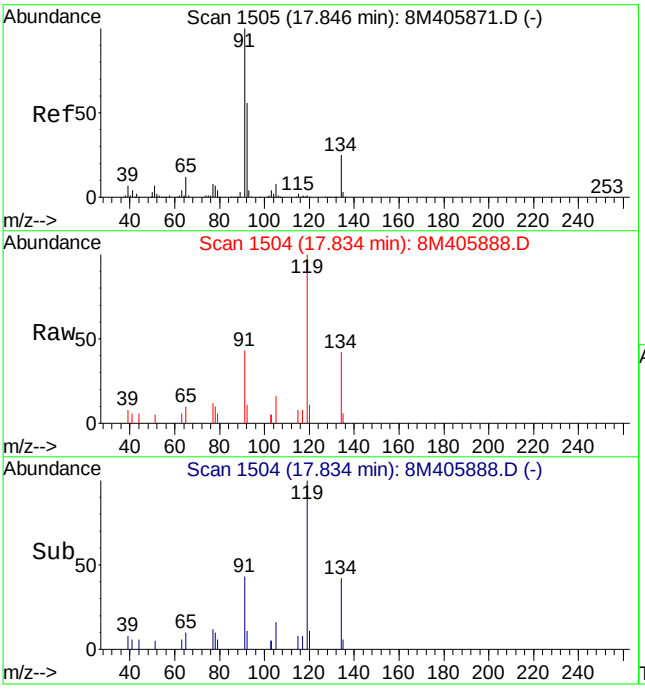


#90
1,2,4-Trimethylbenzene
Concen: 0.27 ug/L
RT: 16.95 min Scan# 1418
Delta R.T. -0.00 min
Lab File: 8M405888.D
Acq: 3 Jul 2015 19:29

Tgt Ion:105 Resp: 6484

Ion	Ratio	Lower	Upper
105	100		
120	44.7	32.3	75.5

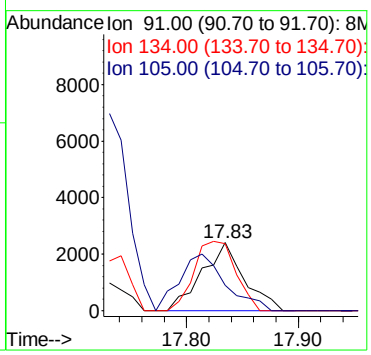


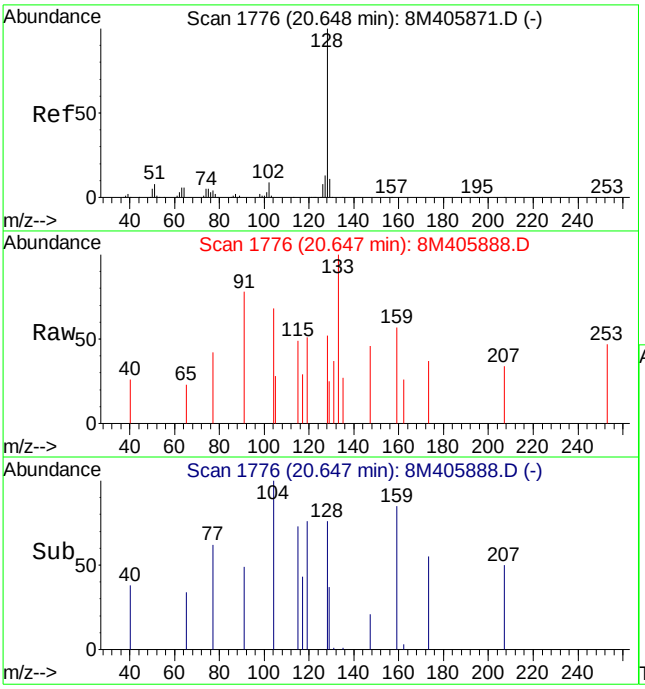


#95
n-Butylbenzene
Concen: 0.27 ug/L
RT: 17.83 min Scan# 1504
Delta R.T. -0.01 min
Lab File: 8M405888.D
Acq: 3 Jul 2015 19:29

Tgt Ion: 91 Resp: 6269

Ion	Ratio	Lower	Upper
91	100		
134	101.4	14.4	33.6#
105	91.3	5.0	11.8#

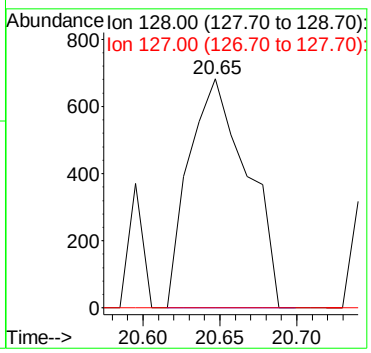




#100
Naphthalene
Concen: 0.15 ug/L
RT: 20.65 min Scan# 1776
Delta R.T. -0.00 min
Lab File: 8M405888.D
Acq: 3 Jul 2015 19:29

Tgt Ion:128 Resp: 1802

Ion	Ratio	Lower	Upper
128	100		
127	0.0	8.0	18.6#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405882.D Vial: 6
Acq On : 3 Jul 2015 16:37 Operator: ADC/ JDS
Sample : L15061450-04 A MS 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:02 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	728474	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	505376	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	284113	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	166997	24.7096	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.84%			
43) 1,2-Dichloroethane-d4	10.31	65	164487	24.8827	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 99.52%			
58) Toluene-d8	12.69	98	646402	25.8568	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.44%			
80) p-Bromofluorobenzene	16.08	95	249696	24.5995	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.16	85	196020	24.5311	ug/L	99
3) Chloromethane	3.62	50	294417	20.5788	ug/L	99
4) Vinyl Chloride	3.85	62	227359	20.6426	ug/L	99
5) 1,3-Butadiene	3.89	54	24291	2.7746	ug/L	99
6) Bromomethane	4.74	94	106634	21.7016	ug/L	96
7) Chloroethane	4.90	64	111638	23.5572	ug/L	98
8) Trichlorofluoromethane	5.38	101	225239	20.3200	ug/L	98
9) Diethyl ether	5.92	59	432404	99.7056	ug/L	99
10) Isoprene	5.95	67	188838	22.7348	ug/L	100
11) Acrolein	6.15	56	37332	123.4802	ug/L	92
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	124719	20.4961	ug/L	95
13) Acetone	6.25	43	20087	22.4444	ug/L	90
14) 1,1-Dichloroethene	6.47	61	205457	19.3110	ug/L	100
15) Tert-Butyl Alcohol	6.59	59	47712	217.3008	ug/L #	92
16) Dimethyl Sulfide	6.74	62	159799	27.5627	ug/L	99
17) Iodomethane	6.99	142	118656	23.1111	ug/L	100
18) Methyl acetate	7.00	43	58978	16.5957	ug/L	98
19) Methylene Chloride	7.26	84	133854	19.9493	ug/L	99
20) Carbon Disulfide	7.30	76	374243	19.5636	ug/L	99
21) Acrylonitrile	7.45	53	28550	21.7109	ug/L	94
22) Methyl Tert Butyl Ether	7.48	73	256507	20.8677	ug/L	99
23) trans-1,2-Dichloroethene	7.71	61	213350	20.7406	ug/L	97
24) n-Hexane	7.80	57	189032	18.5757	ug/L	98
25) Diisopropyl ether	8.14	45	2550948	102.0350	ug/L	100
26) Vinyl Acetate	8.30	43	170114	30.9434	ug/L	98
27) 1,1-Dichloroethane	8.33	63	263773	19.7567	ug/L	100
28) Ethyl-Tert-Butyl ether	8.71	59	1883893	97.1263	ug/L	100
29) 2-Butanone	8.89	43	31179	20.6263	ug/L	97
30) Propionitrile	9.00	54	48962	109.2783	ug/L	97
31) 2,2-Dichloropropane	9.10	77	228711	21.4553	ug/L	99
32) cis-1,2-Dichloroethene	9.17	96	150068	21.1192	ug/L	98
33) Chloroform	9.38	83	250271	20.6068	ug/L	99
34) 1-Bromopropane	9.52	122	28644	24.5503	ug/L	97
35) Bromochloromethane	9.62	130	72432	20.6375	ug/L	97
36) Tetrahydrofuran	9.64	42	97604	96.6592	ug/L	96
38) 1,1,1-Trichloroethane	9.92	97	237983	20.6444	ug/L	98
39) Cyclohexane	9.95	56	249251	18.4883	ug/L	99
40) 1,1-Dichloropropene	10.11	75	197984	21.4289	ug/L	100
41) Tert-Amyl-Methyl ether	10.22	73	1451571	100.6543	ug/L	100
42) Carbon Tetrachloride	10.26	117	212632	20.3651	ug/L	99

(#) = qualifier out of range (m) = manual integration
8M405882.D 8260WT.M Mon Jul 06 10:26:02 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405882.D Vial: 6
Acq On : 3 Jul 2015 16:37 Operator: ADC/ JDS
Sample : L15061450-04 A MS 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:02 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

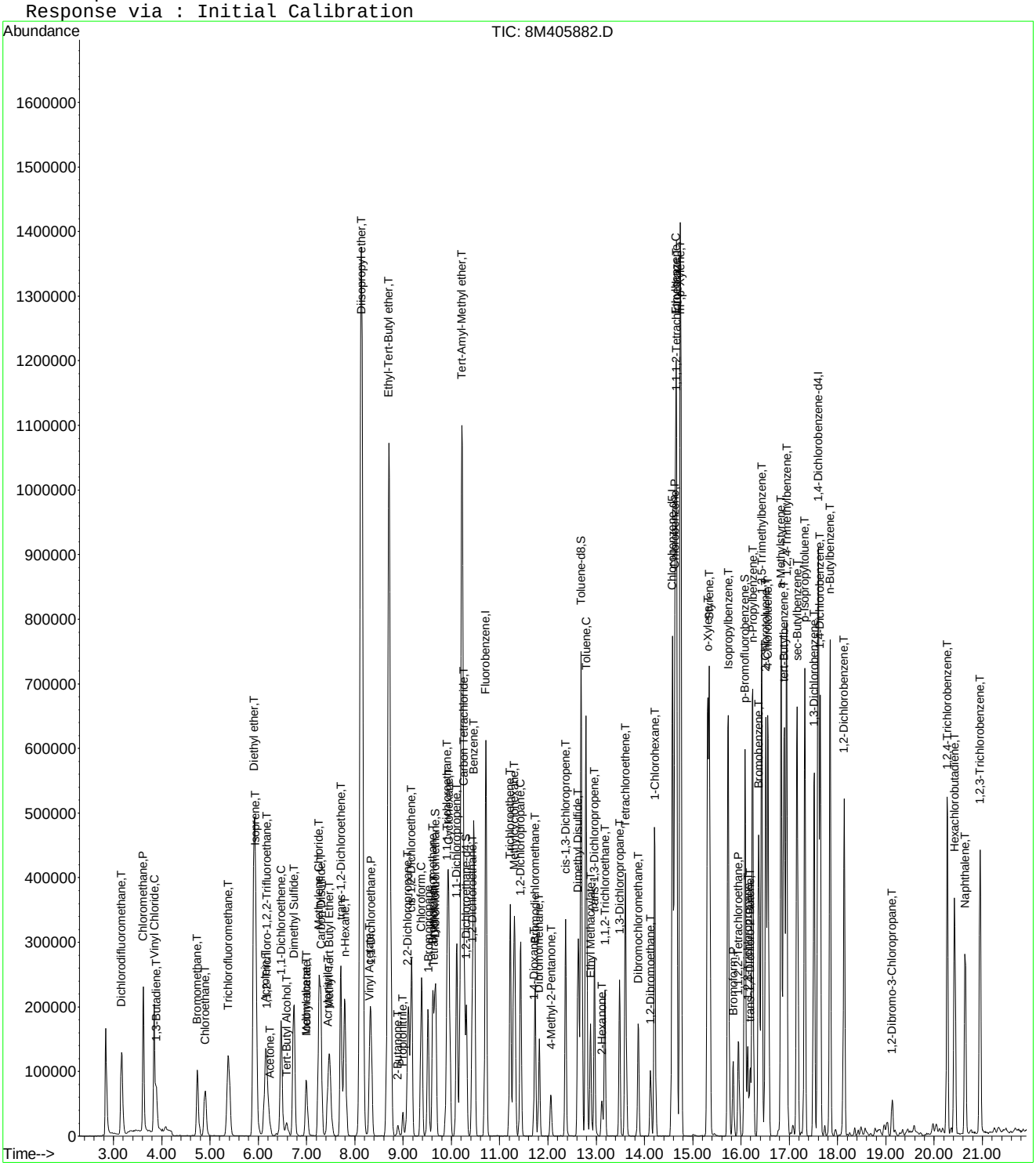
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	170483	20.6448	ug/L		99
46)	Benzene	10.46	78	554428	20.9306	ug/L		99
47)	Trichloroethene	11.22	130	142447	21.6156	ug/L		96
48)	Methylcyclohexane	11.30	83	208388	19.3984	ug/L		100
49)	1,2-Dichloropropane	11.44	63	154238	20.9900	ug/L		99
50)	Bromodichloromethane	11.74	83	184691	20.3562	ug/L		99
51)	1,4-Dioxane	11.72	88	4636	191.6632	ug/L		92
52)	Dibromomethane	11.82	93	68247	20.0943	ug/L		99
54)	4-Methyl-2-Pentanone	12.07	58	26507	19.3984	ug/L		97
55)	cis-1,3-Dichloropropene	12.37	75	219728	21.8369	ug/L		98
56)	Dimethyl Disulfide	12.63	79	114183	20.3822	ug/L		92
59)	Toluene	12.79	91	610253	21.9280	ug/L		98
60)	Ethyl Methacrylate	12.88	69	119891	23.3571	ug/L		96
62)	trans-1,3-Dichloropropene	12.97	75	173838	20.2498	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	90138	20.9557	ug/L		100
64)	2-Hexanone	13.12	58	24543	19.7492	ug/L	#	91
65)	1,3-Dichloropropane	13.48	76	158181	20.9888	ug/L		99
66)	Tetrachloroethene	13.61	164	118812	20.8970	ug/L		99
67)	Dibromochloromethane	13.88	129	115924	18.5900	ug/L		98
68)	1,2-Dibromoethane	14.12	107	84778	20.4793	ug/L		99
69)	1-Chlorohexane	14.22	91	200423	20.6407	ug/L		100
70)	Chlorobenzene	14.63	112	355387	19.0451	ug/L		98
71)	1,1,1,2-Tetrachloroethane	14.66	131	136388	20.0987	ug/L		99
72)	Ethylbenzene	14.65	106	216321	20.6061	ug/L		100
73)	m-,p-Xylene	14.74	106	501016	40.5235	ug/L		96
74)	o-Xylene	15.31	106	241831	20.1651	ug/L		97
75)	Styrene	15.34	104	419712	21.7747	ug/L		100
76)	Bromoform	15.84	173	70106	18.7779	ug/L		97
77)	Isopropylbenzene	15.74	105	613672	20.3986	ug/L		99
79)	1,1,2,2-Tetrachloroethane	15.94	83	101004	21.0669	ug/L		99
81)	1,2,3-Trichloropropane	16.14	110	27208	19.7641	ug/L		97
82)	trans-1,4-Dichloro-2-Buten	16.19	53	33344	19.5045	ug/L		100
83)	n-Propylbenzene	16.24	91	782965	20.2762	ug/L		99
84)	Bromobenzene	16.37	156	151779	19.2636	ug/L		97
85)	1,3,5-Trimethylbenzene	16.43	105	585079	21.7251	ug/L		99
86)	2-Chlorotoluene	16.51	91	495153	20.3060	ug/L		99
87)	4-Chlorotoluene	16.55	91	471785	19.1013	ug/L		100
88)	a-Methylstyrene	16.83	118	306721	21.4676	ug/L		99
89)	tert-Butylbenzene	16.90	134	108813	19.8260	ug/L		99
90)	1,2,4-Trimethylbenzene	16.95	105	592992	21.6013	ug/L		99
91)	sec-Butylbenzene	17.16	105	657001	20.4725	ug/L		100
92)	p-Isopropyltoluene	17.32	119	558423	20.0235	ug/L		98
93)	1,3-Dichlorobenzene	17.52	146	294432	18.7732	ug/L		100
94)	1,4-Dichlorobenzene	17.64	146	321563	20.0956	ug/L		100
95)	n-Butylbenzene	17.85	91	581194	21.2518	ug/L		99
96)	1,2-Dichlorobenzene	18.14	146	262266	18.7275	ug/L		99
97)	1,2-Dibromo-3-Chloropropan	19.13	75	16091	18.9802	ug/L		97
98)	1,2,4-Trichlorobenzene	20.28	180	205545	19.5956	ug/L		100
99)	Hexachlorobutadiene	20.42	225	96975	18.4361	ug/L		97
100)	Naphthalene	20.64	128	275370	19.9140	ug/L		99
101)	1,2,3-Trichlorobenzene	20.95	180	170420	18.6839	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M405882.D 8260WT.M Mon Jul 06 10:26:02 2015 Page 2

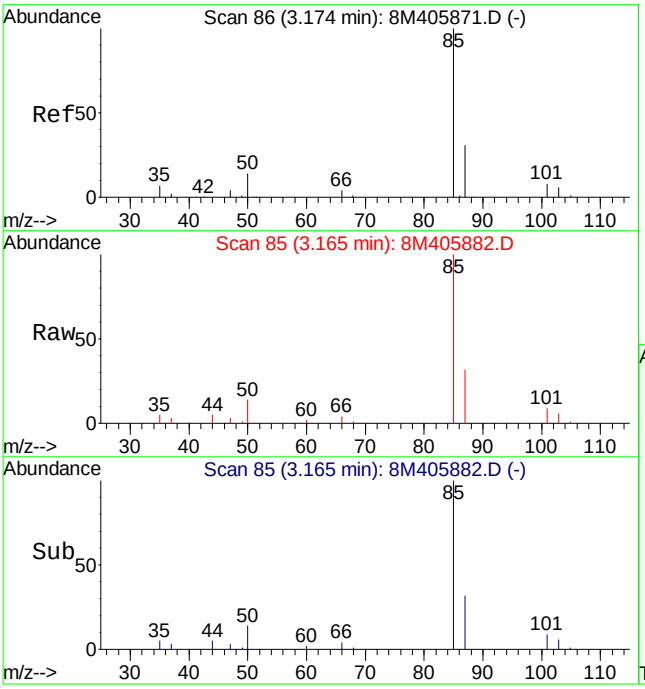
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405882.D Vial: 6
Acq On : 3 Jul 2015 16:37 Operator: ADC/ JDS
Sample : L15061450-04 A MS 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



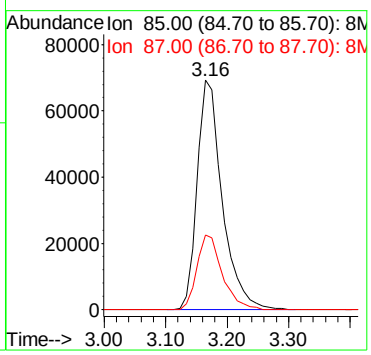
8M405882.D 8260WT.M Mon Jul 06 10:26:03 2015 Page 3

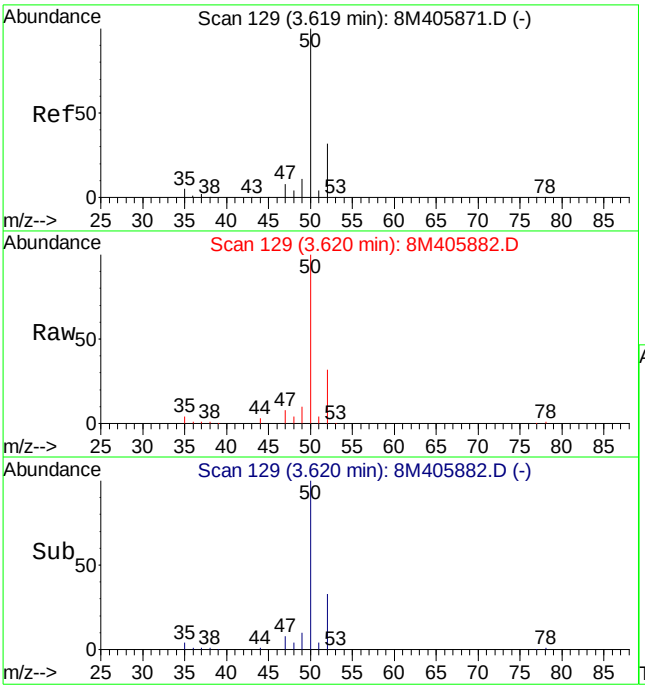


#2
Dichlorodifluoromethane
Concen: 24.53 ug/L
RT: 3.16 min Scan# 85
Delta R.T. -0.01 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 85 Resp: 196020

Ion	Ratio	Lower	Upper
85	100		
87	32.7	19.2	44.8

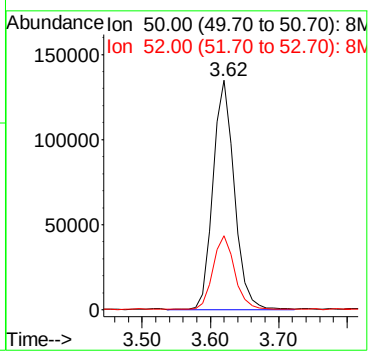


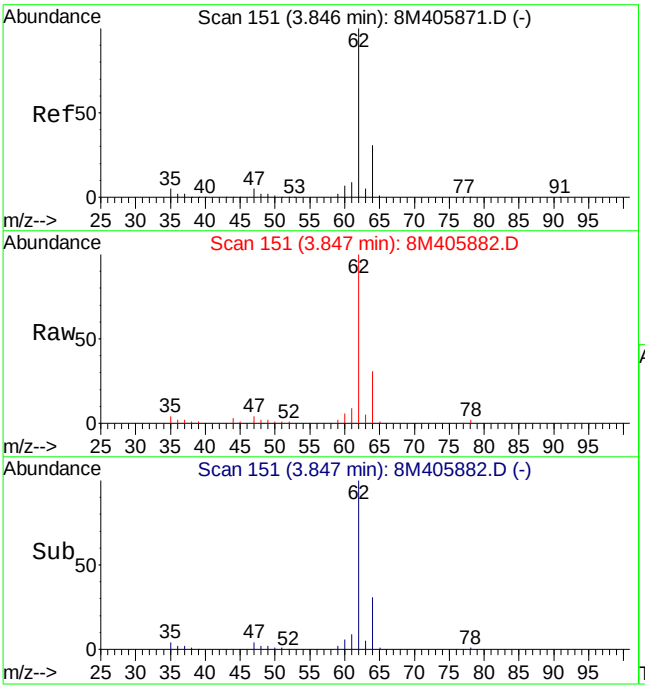


#3
Chloromethane
Concen: 20.58 ug/L
RT: 3.62 min Scan# 129
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 50 Resp: 294417

Ion	Ratio	Lower	Upper
50	100		
52	32.6	19.2	44.8

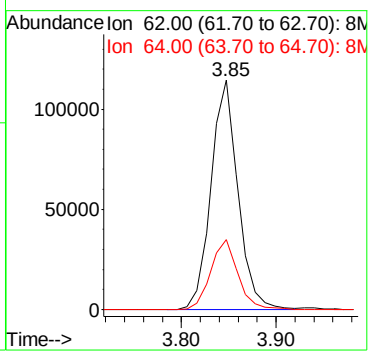


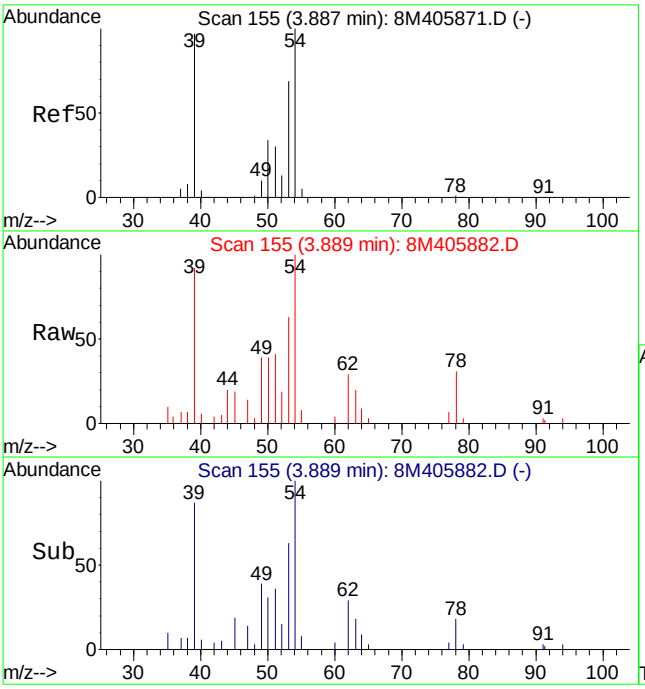


#4
Vinyl Chloride
Concen: 20.64 ug/L
RT: 3.85 min Scan# 151
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 62 Resp: 227359

Ion	Ratio	Lower	Upper
62	100		
64	30.9	18.2	42.6

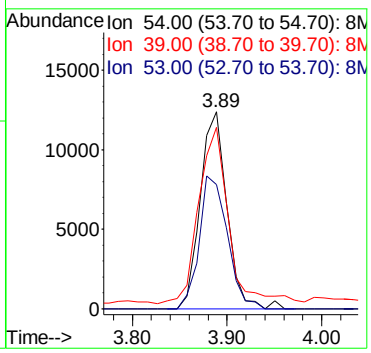


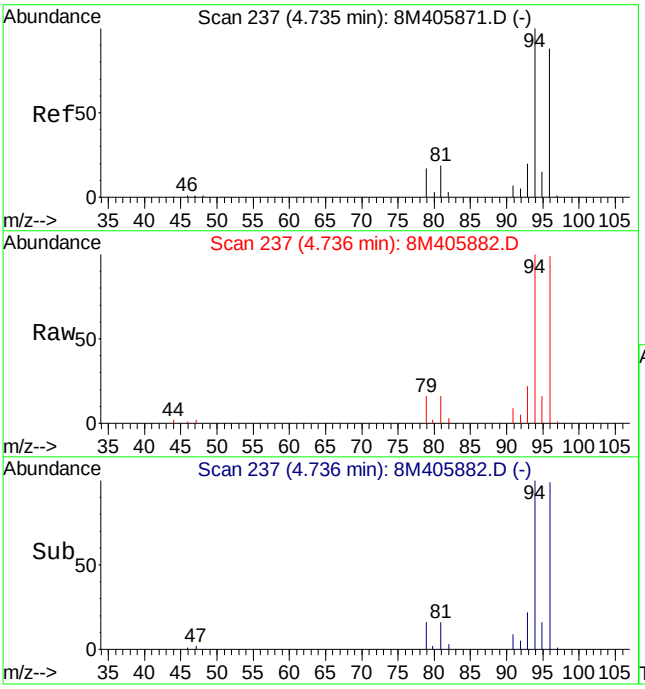


#5
1,3-Butadiene
Concen: 2.77 ug/L
RT: 3.89 min Scan# 155
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 54 Resp: 24291

Ion	Ratio	Lower	Upper
54	100		
39	100.1	60.8	142.0
53	70.7	42.4	99.0

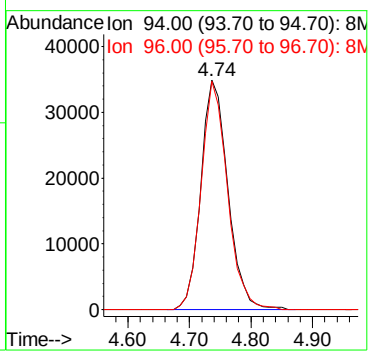


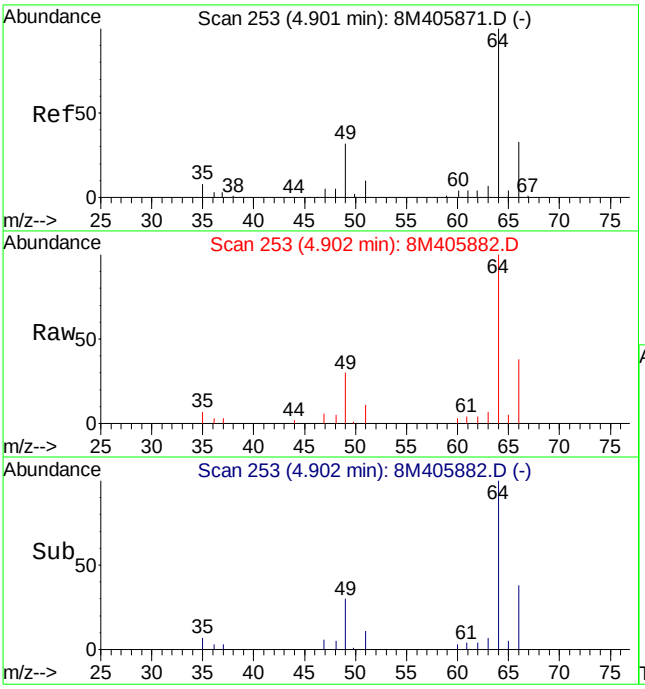


#6
Bromomethane
Concen: 21.70 ug/L
RT: 4.74 min Scan# 237
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 94 Resp: 106634

Ion	Ratio	Lower	Upper
94	100		
96	96.7	55.6	129.8

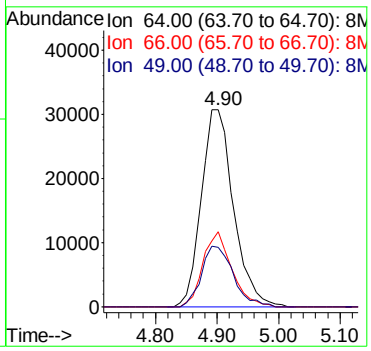


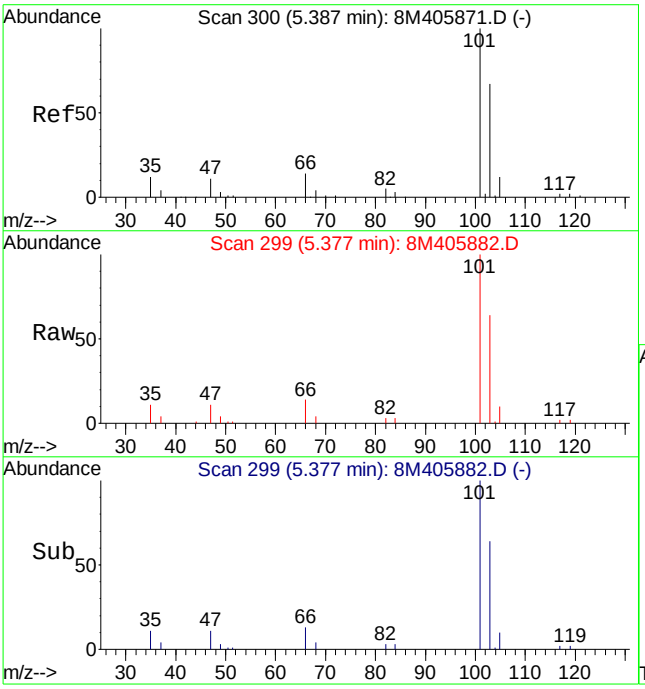


#7
Chloroethane
Concen: 23.56 ug/L
RT: 4.90 min Scan# 253
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 64 Resp: 111638

Ion	Ratio	Lower	Upper
64	100		
66	34.0	19.0	44.4
49	30.4	18.5	43.1

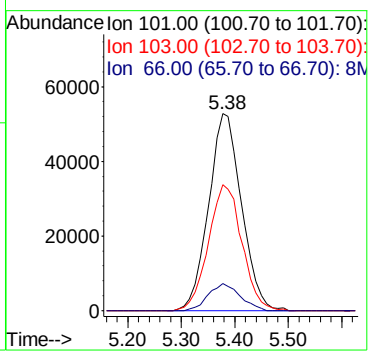


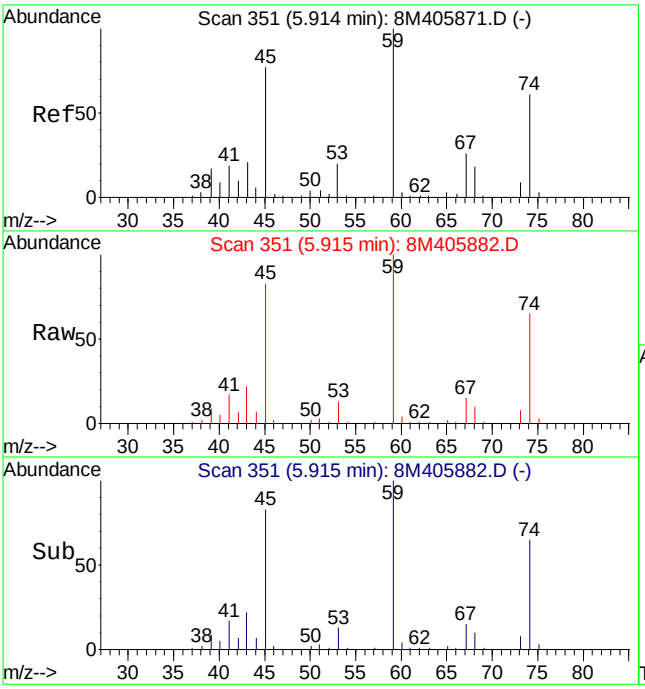


#8
Trichlorofluoromethane
Concen: 20.32 ug/L
RT: 5.38 min Scan# 299
Delta R.T. -0.01 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:101 Resp: 225239

Ion	Ratio	Lower	Upper
101	100		
103	65.0	39.7	92.7
66	13.2	8.5	19.9

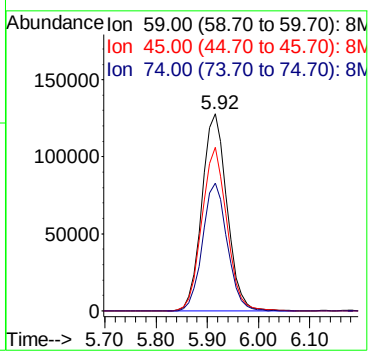


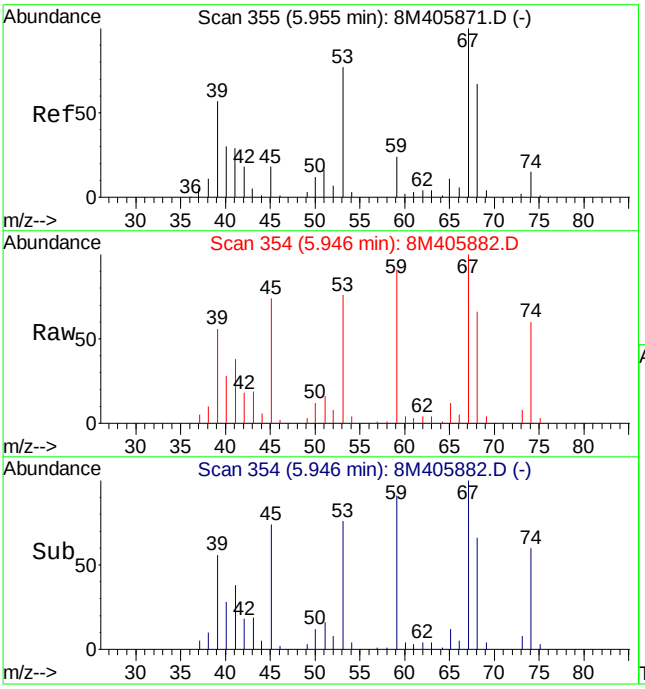


#9
Diethyl ether
Concen: 99.71 ug/L
RT: 5.92 min Scan# 351
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 59 Resp: 432404

Ion	Ratio	Lower	Upper
59	100		
45	82.5	49.3	115.1
74	63.8	38.6	90.2

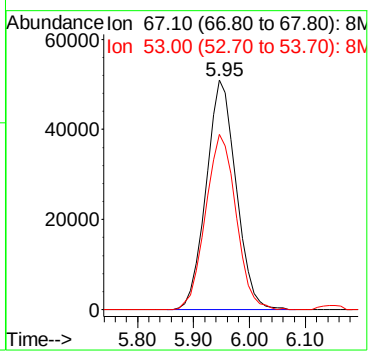


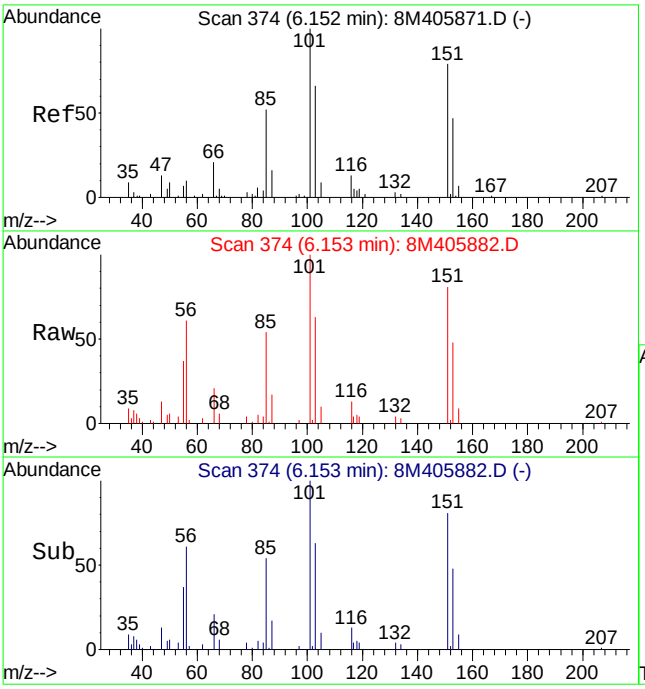


#10
Isoprene
Concen: 22.73 ug/L
RT: 5.95 min Scan# 354
Delta R.T. -0.01 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 67 Resp: 188838

Ion	Ratio	Lower	Upper
67	100		
53	77.9	46.9	109.5

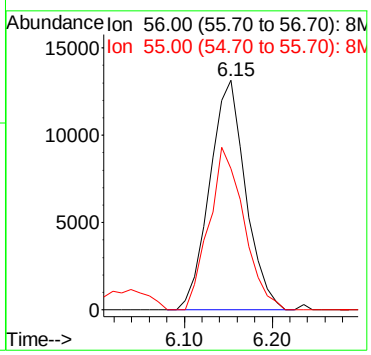


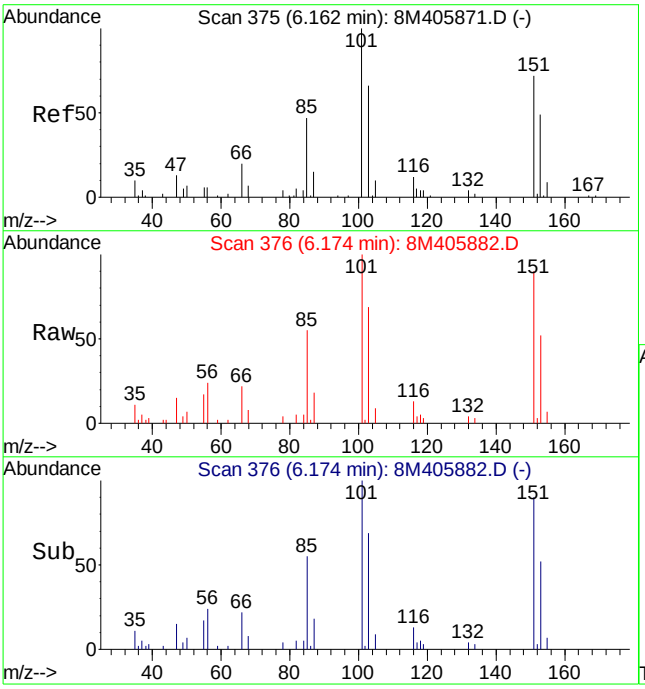


#11
Acrolein
Concen: 123.48 ug/L
RT: 6.15 min Scan# 374
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 56 Resp: 37332

Ion	Ratio	Lower	Upper
56	100		
55	69.0	45.2	105.6

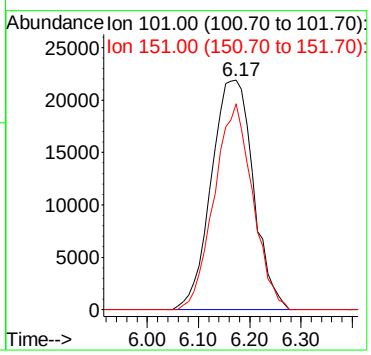


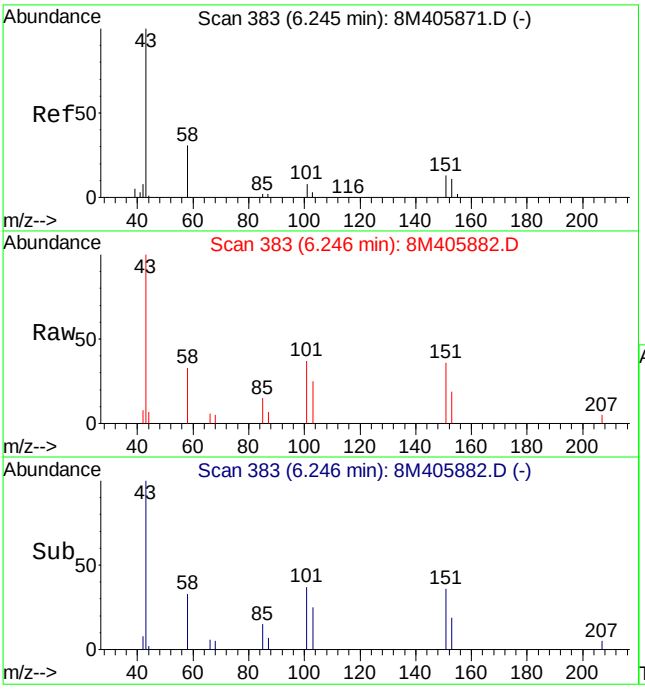


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 20.50 ug/L
RT: 6.17 min Scan# 376
Delta R.T. 0.01 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:101 Resp: 124719

Ion	Ratio	Lower	Upper
101	100		
151	82.1	38.1	118.1

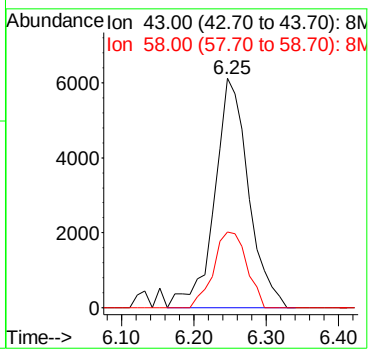


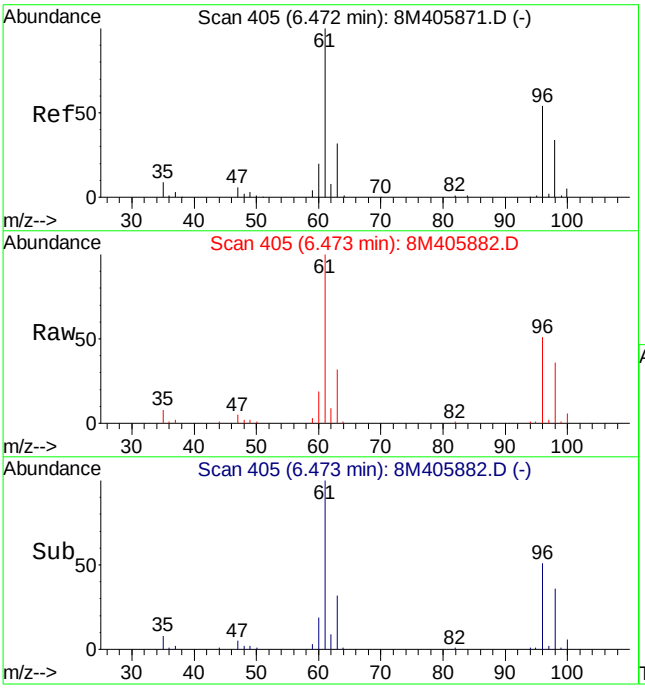


#13
Acetone
Concen: 22.44 ug/L
RT: 6.25 min Scan# 383
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 43 Resp: 20087

Ion	Ratio	Lower	Upper
43	100		
58	32.3	16.4	38.2

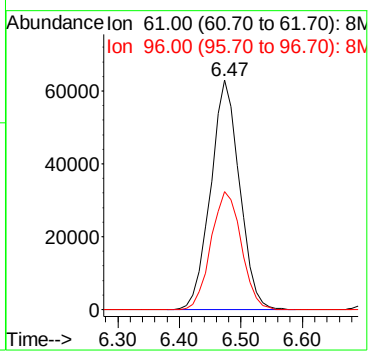


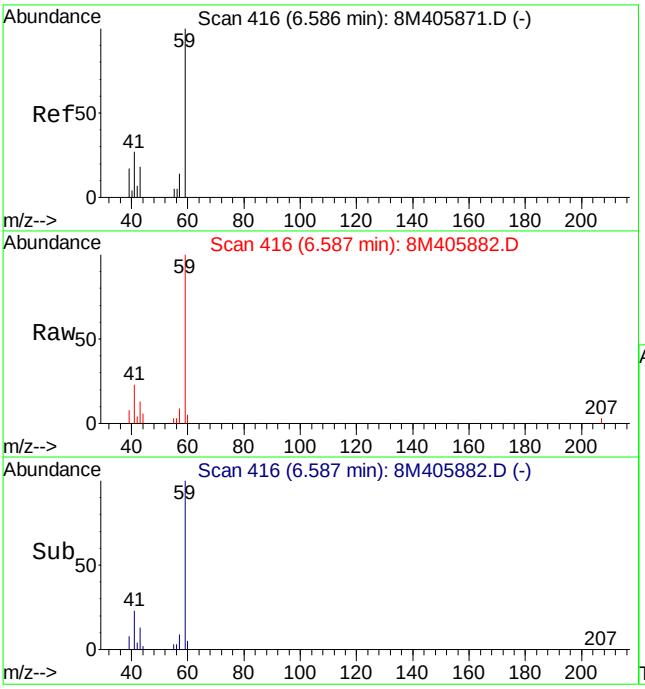


#14
1,1-Dichloroethene
Concen: 19.31 ug/L
RT: 6.47 min Scan# 405
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 61 Resp: 205457

Ion	Ratio	Lower	Upper
61	100		
96	53.7	32.3	75.3

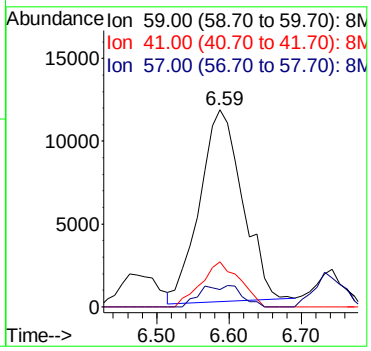


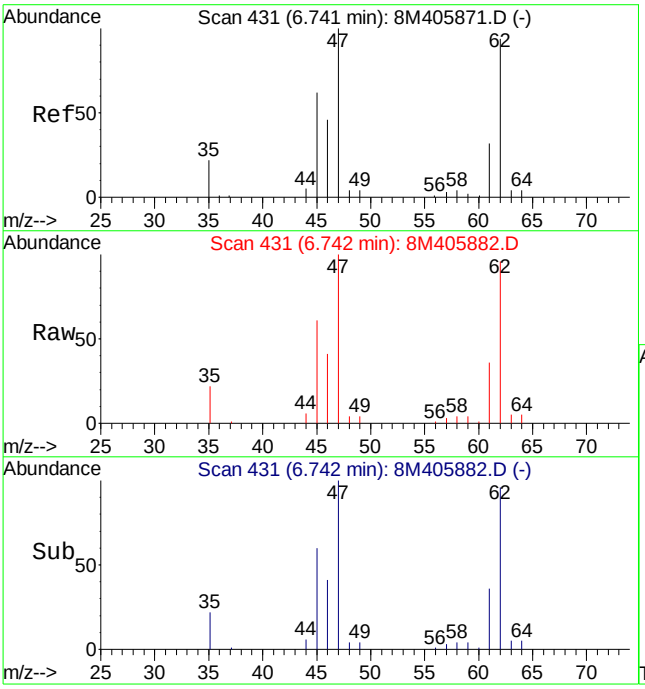


#15
Tert-Butyl Alcohol
Concen: 217.30 ug/L
RT: 6.59 min Scan# 416
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 59 Resp: 47712

Ion	Ratio	Lower	Upper
59	100		
41	21.2	14.2	33.0
57	5.8	6.5	15.3#

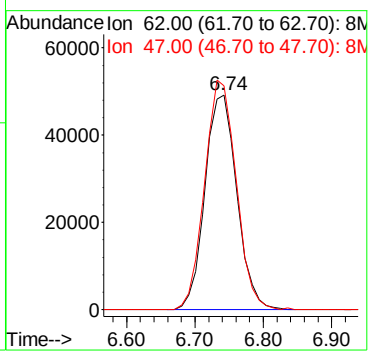


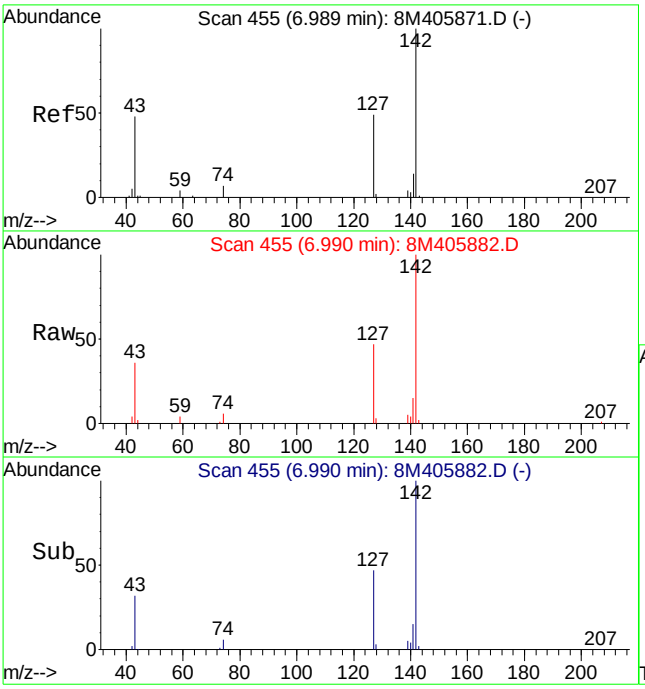


#16
Dimethyl Sulfide
Concen: 27.56 ug/L
RT: 6.74 min Scan# 431
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 62 Resp: 159799

Ion	Ratio	Lower	Upper
62	100		
47	105.9	64.3	149.9

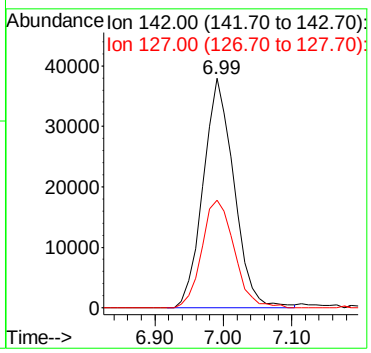


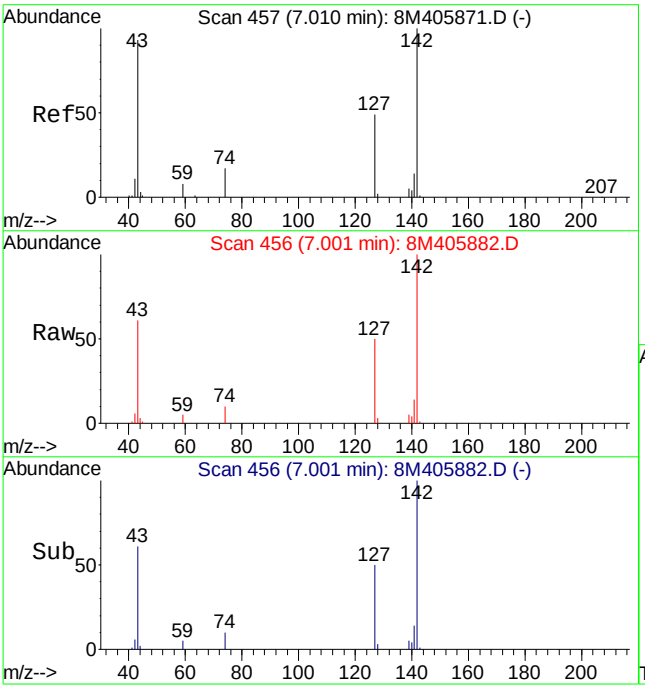


#17
Iodomethane
Concen: 23.11 ug/L
RT: 6.99 min Scan# 455
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:142 Resp: 118656

Ion	Ratio	Lower	Upper
142	100		
127	49.3	29.6	69.0

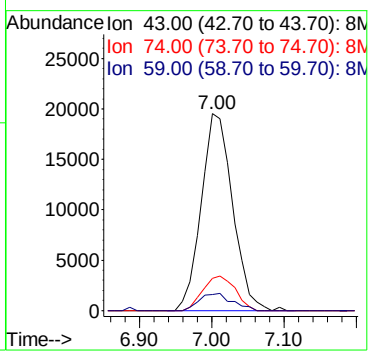


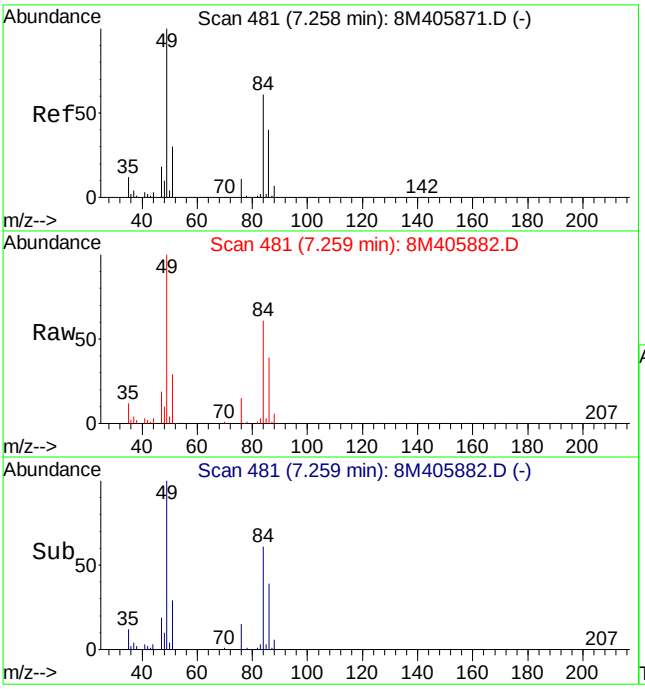


#18
Methyl acetate
Concen: 16.60 ug/L
RT: 7.00 min Scan# 456
Delta R.T. -0.01 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 43 Resp: 58978

Ion	Ratio	Lower	Upper
43	100		
74	18.0	11.2	26.2
59	9.1	4.7	11.1

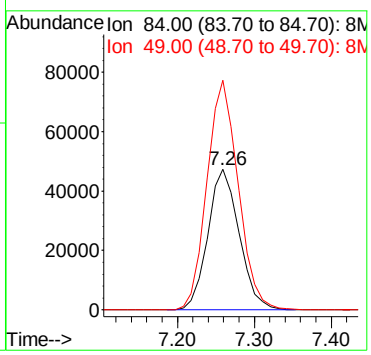


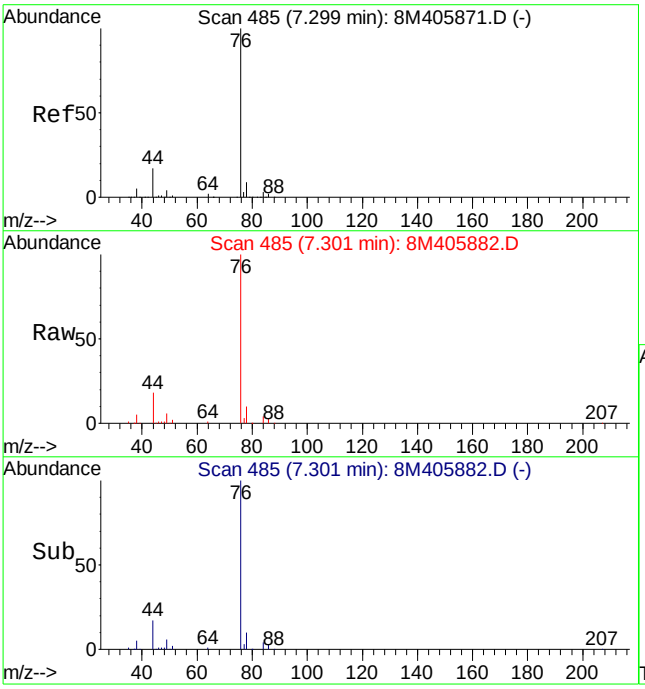


#19
Methylene Chloride
Concen: 19.95 ug/L
RT: 7.26 min Scan# 481
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 84 Resp: 133854

Ion	Ratio	Lower	Upper
84	100		
49	163.0	98.6	230.2

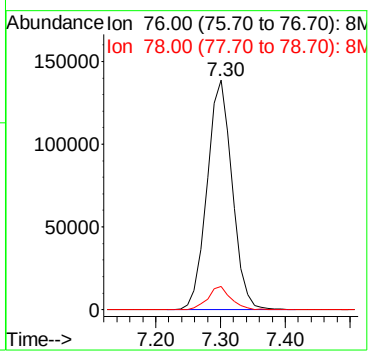


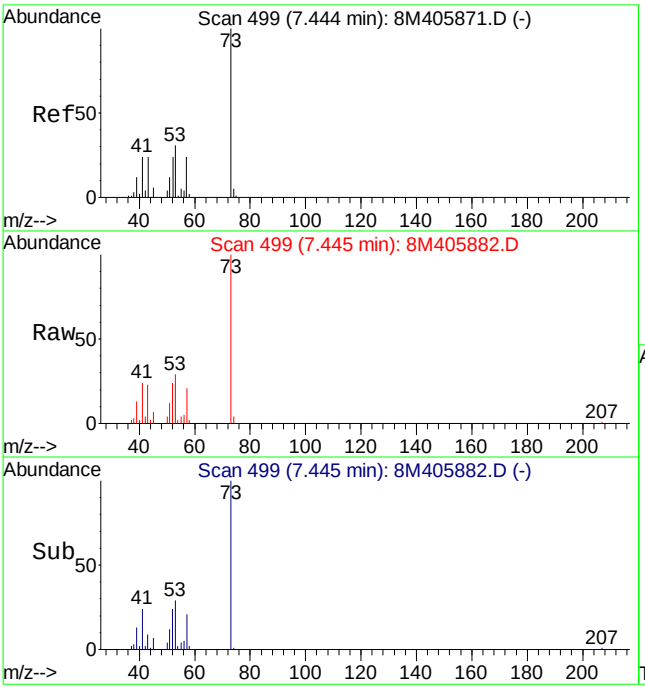


#20
Carbon Disulfide
Concen: 19.56 ug/L
RT: 7.30 min Scan# 485
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 76 Resp: 374243

Ion	Ratio	Lower	Upper
76	100		
78	9.2	5.7	13.3

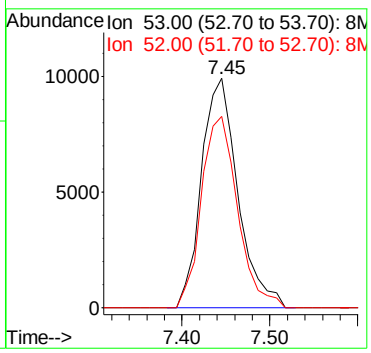


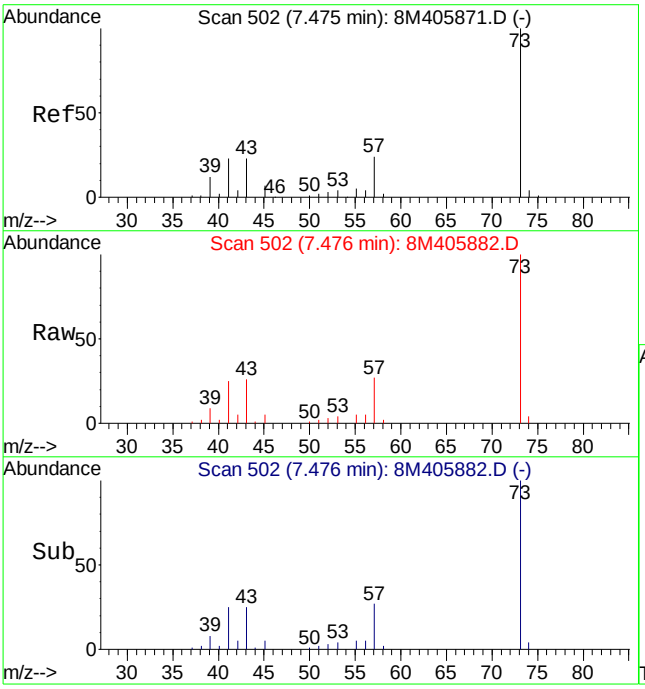


#21
Acrylonitrile
Concen: 21.71 ug/L
RT: 7.45 min Scan# 499
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 53 Resp: 28550

Ion	Ratio	Lower	Upper
53	100		
52	82.9	46.6	108.6

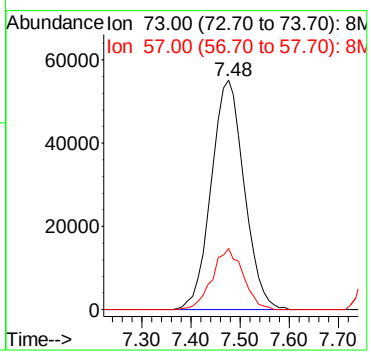


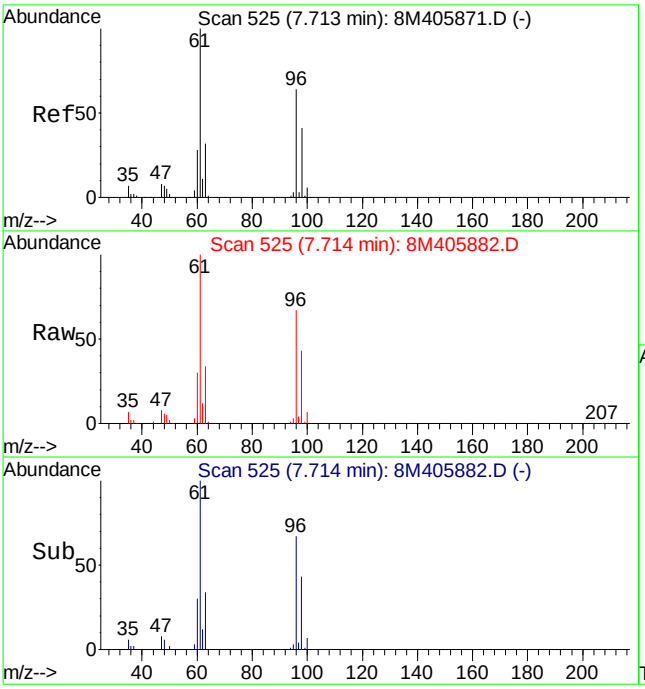


#22
Methyl Tert Butyl Ether
Concen: 20.87 ug/L
RT: 7.48 min Scan# 502
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 73 Resp: 256507

Ion	Ratio	Lower	Upper
73	100		
57	24.9	15.3	35.7

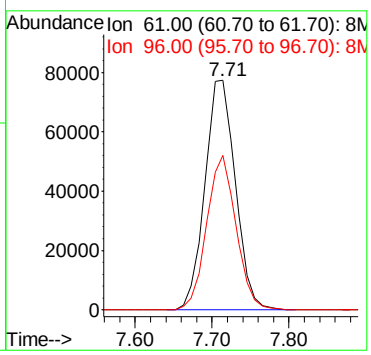


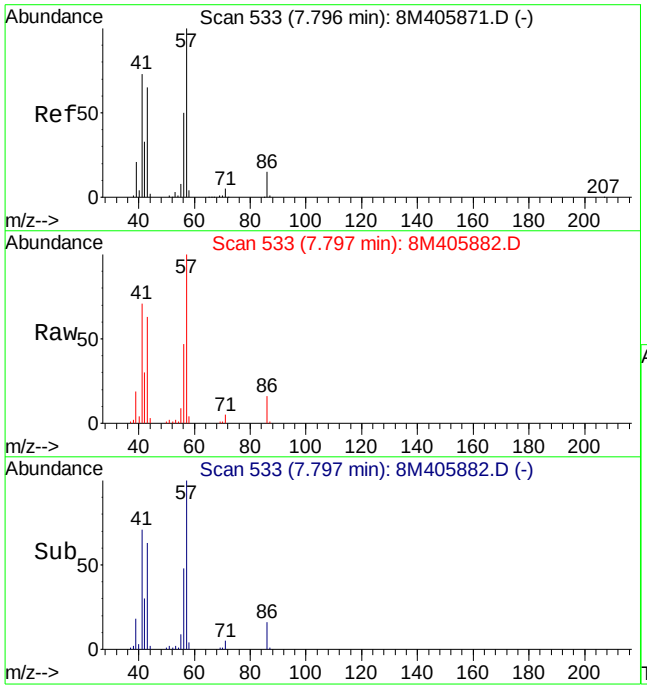


#23
trans-1,2-Dichloroethene
Concen: 20.74 ug/L
RT: 7.71 min Scan# 525
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 61 Resp: 213350

Ion	Ratio	Lower	Upper
61	100		
96	64.5	37.4	87.4

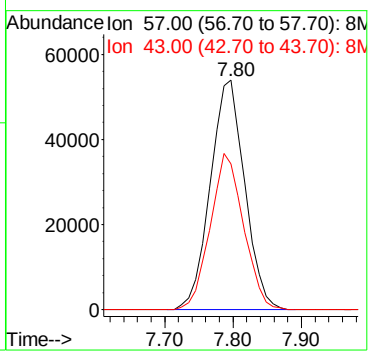


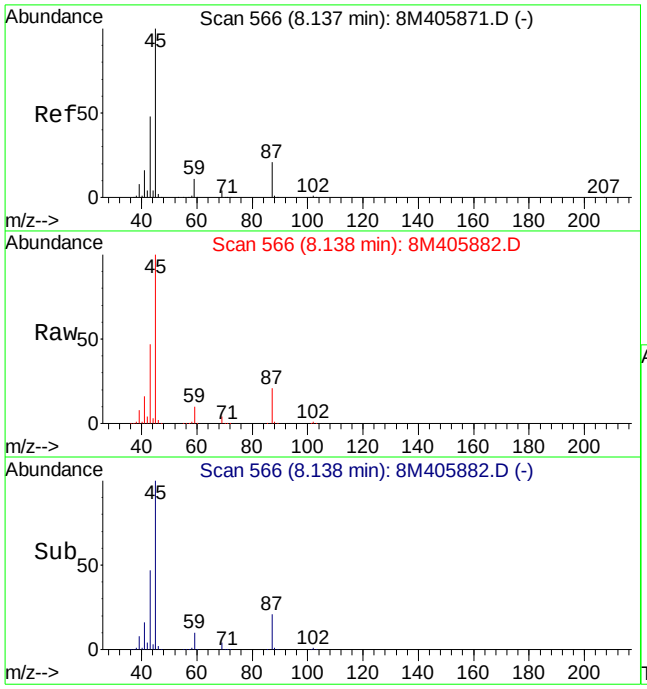


#24
n-Hexane
Concen: 18.58 ug/L
RT: 7.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 57 Resp: 189032

Ion	Ratio	Lower	Upper
57	100		
43	65.7	40.6	94.6

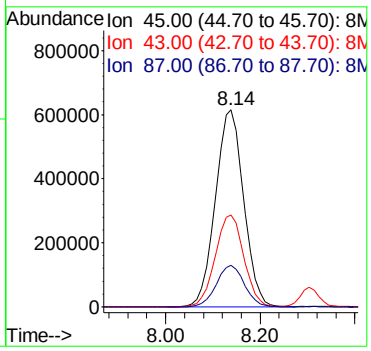


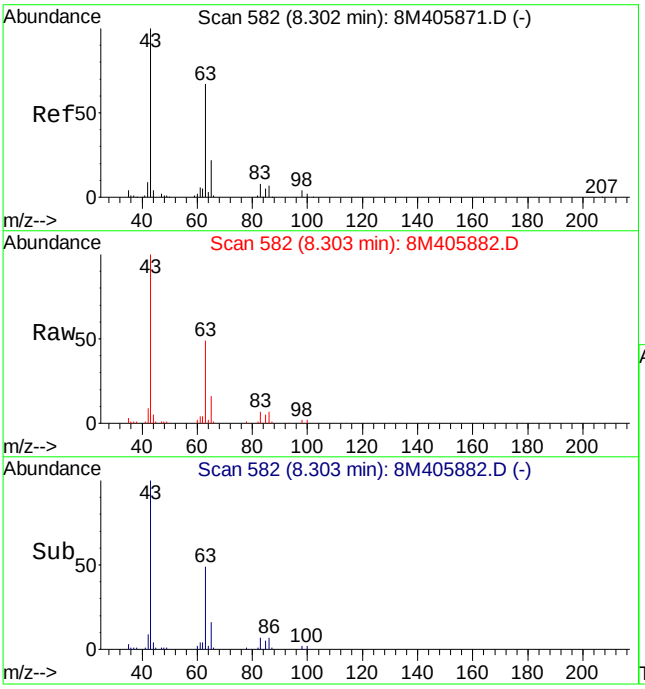


#25
Diisopropyl ether
Concen: 102.04 ug/L
RT: 8.14 min Scan# 566
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 45 Resp: 2550948

Ion	Ratio	Lower	Upper
45	100		
43	47.0	28.3	66.1
87	20.9	12.6	29.4

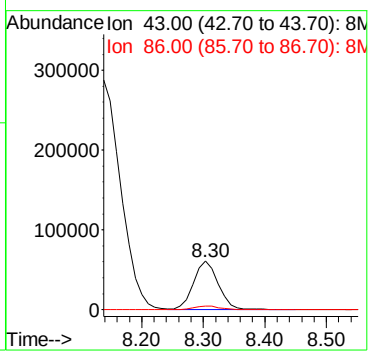


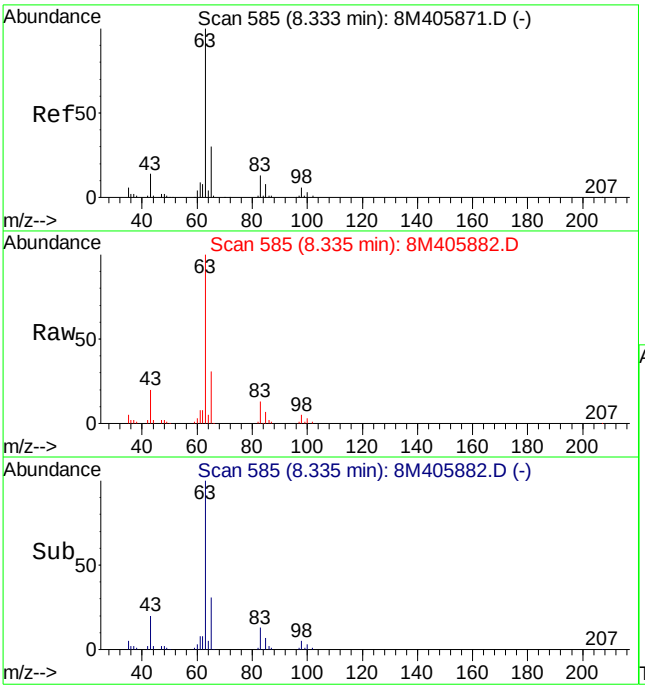


#26
Vinyl Acetate
Concen: 30.94 ug/L
RT: 8.30 min Scan# 582
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 43 Resp: 170114

Ion	Ratio	Lower	Upper
43	100		
86	7.4	4.9	11.3

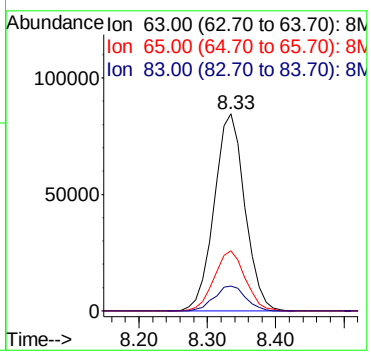


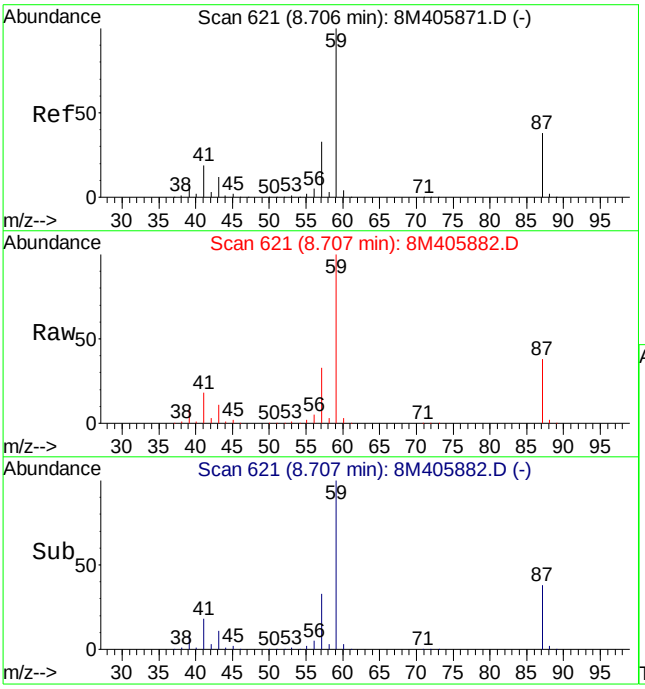


#27
1,1-Dichloroethane
Concen: 19.76 ug/L
RT: 8.33 min Scan# 585
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 63 Resp: 263773

Ion	Ratio	Lower	Upper
63	100		
65	30.8	18.4	43.0
83	12.6	7.7	18.1

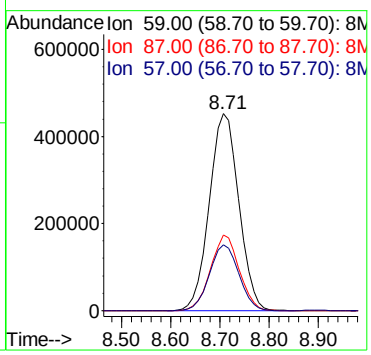


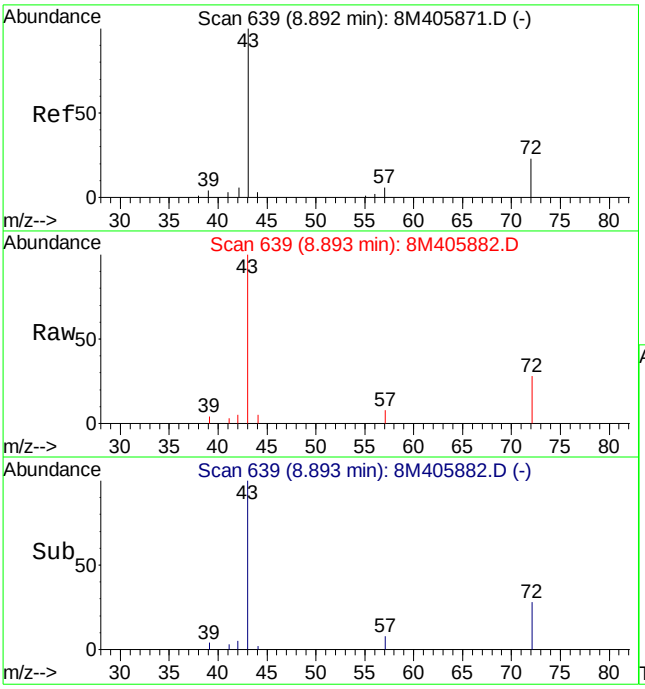


#28
Ethyl-Tert-Butyl ether
Concen: 97.13 ug/L
RT: 8.71 min Scan# 621
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 59 Resp: 1883893

Ion	Ratio	Lower	Upper
59	100		
87	37.2	22.5	52.5
57	33.3	20.0	46.6

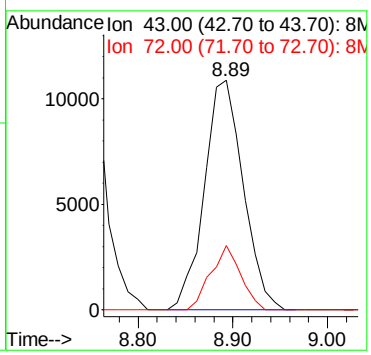


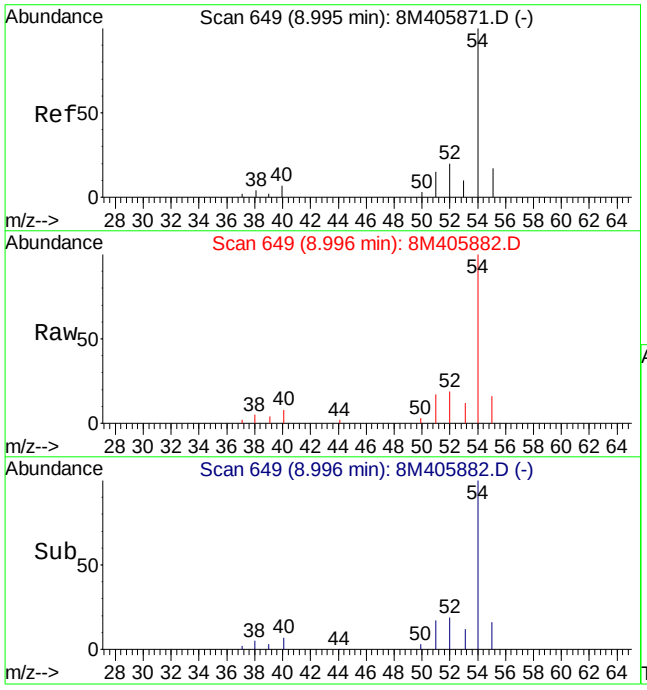


#29
2-Butanone
Concen: 20.63 ug/L
RT: 8.89 min Scan# 639
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 43 Resp: 31179

Ion	Ratio	Lower	Upper
43	100		
72	21.4	11.9	27.9

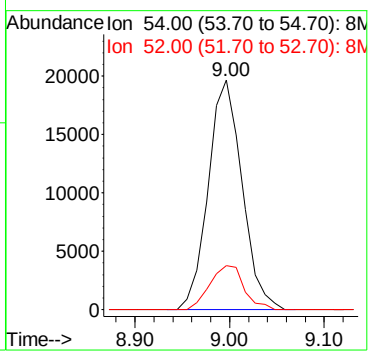


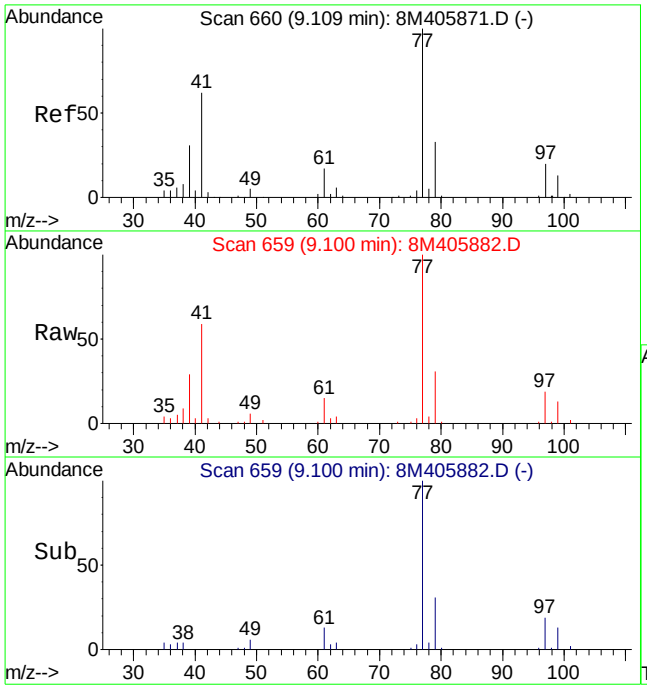


#30
Propionitrile
Concen: 109.28 ug/L
RT: 9.00 min Scan# 649
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 54 Resp: 48962

Ion	Ratio	Lower	Upper
54	100		
52	19.3	12.4	28.8

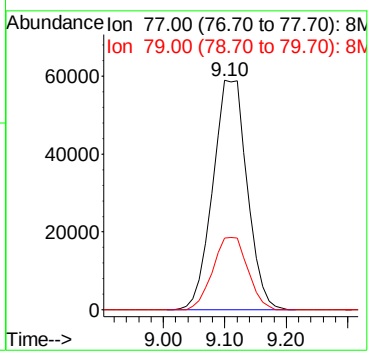


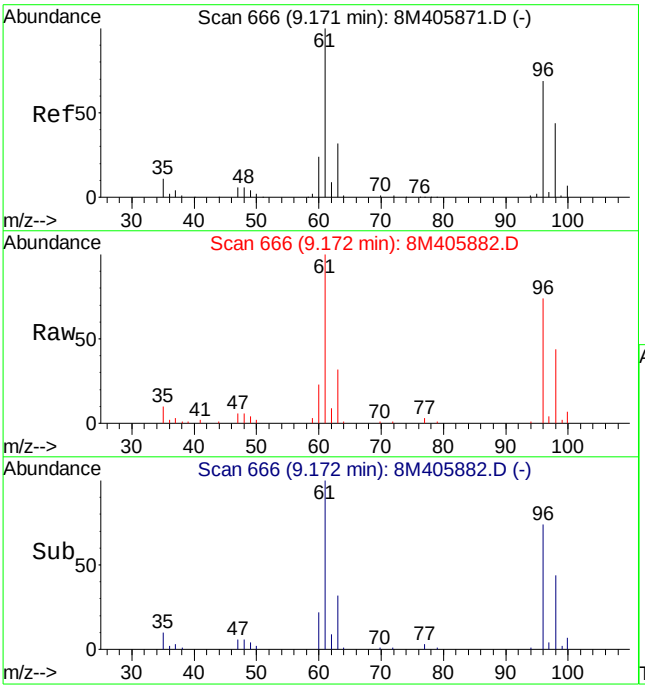


#31
2,2-Dichloropropane
Concen: 21.46 ug/L
RT: 9.10 min Scan# 659
Delta R.T. -0.01 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 77 Resp: 228711

Ion	Ratio	Lower	Upper
77	100		
79	32.1	19.4	45.4

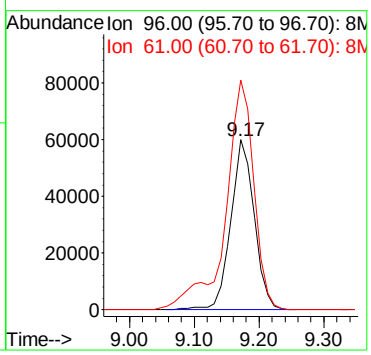


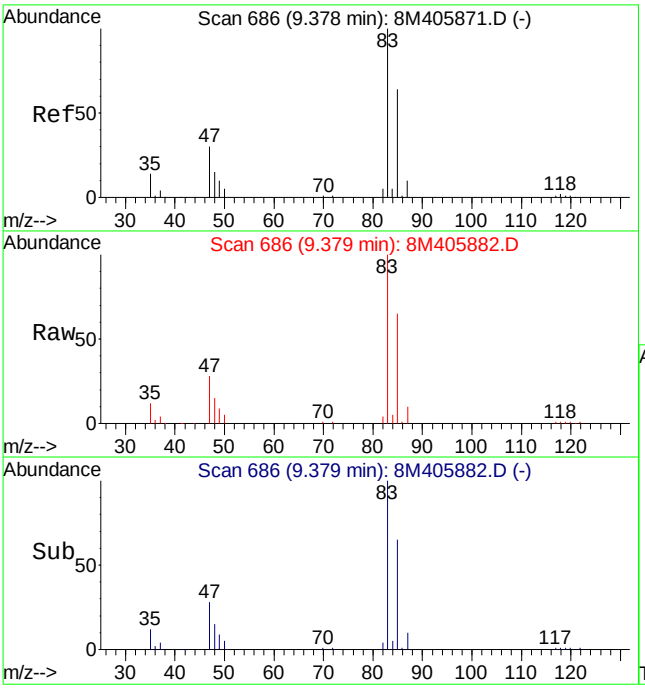


#32
cis-1,2-Dichloroethene
Concen: 21.12 ug/L
RT: 9.17 min Scan# 666
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 96 Resp: 150068

Ion	Ratio	Lower	Upper
96	100		
61	163.1	99.8	233.0

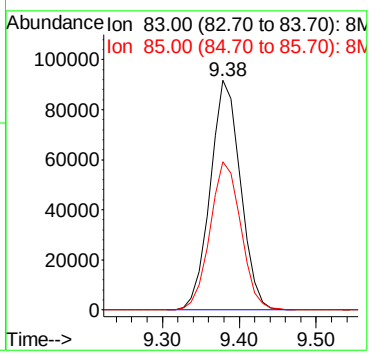


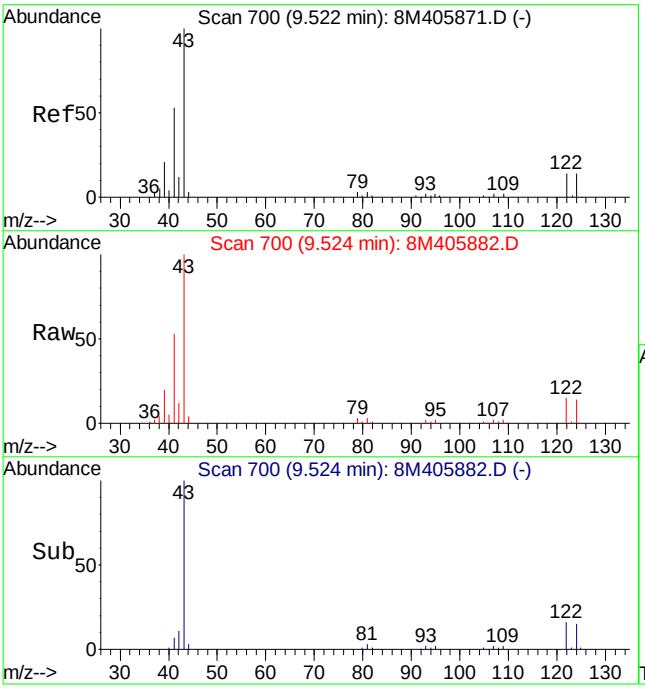


#33
Chloroform
Concen: 20.61 ug/L
RT: 9.38 min Scan# 686
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 83 Resp: 250271

Ion	Ratio	Lower	Upper
83	100		
85	65.8	38.8	90.4

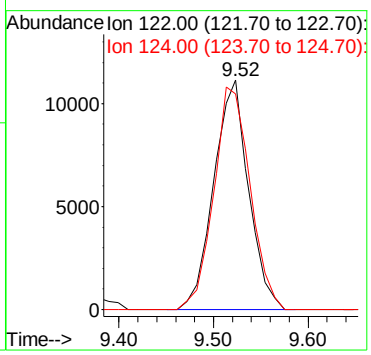


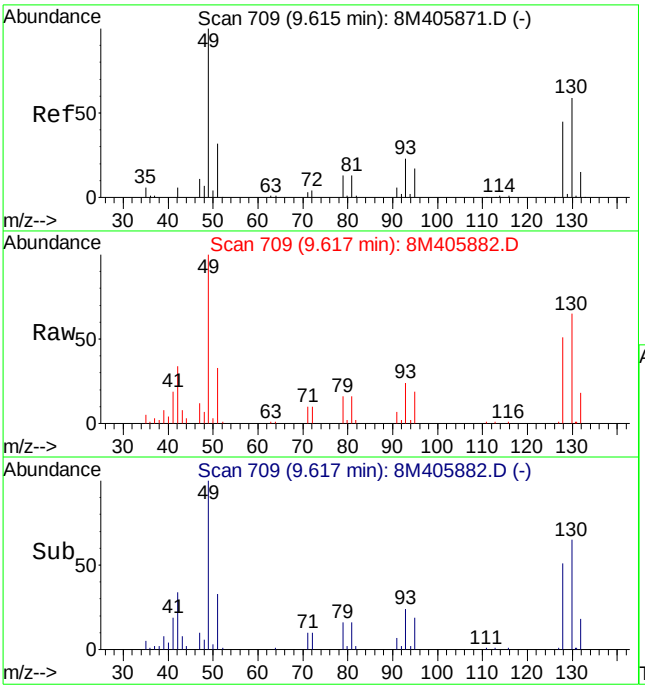


#34
1-Bromopropane
Concen: 24.55 ug/L
RT: 9.52 min Scan# 700
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:122 Resp: 28644

Ion	Ratio	Lower	Upper
122	100		
124	101.6	0.0	213.1

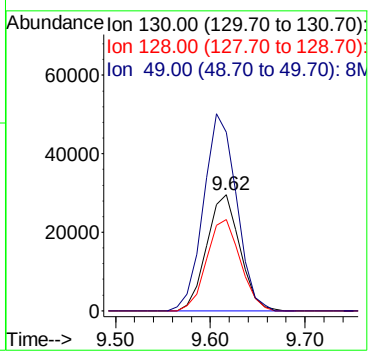


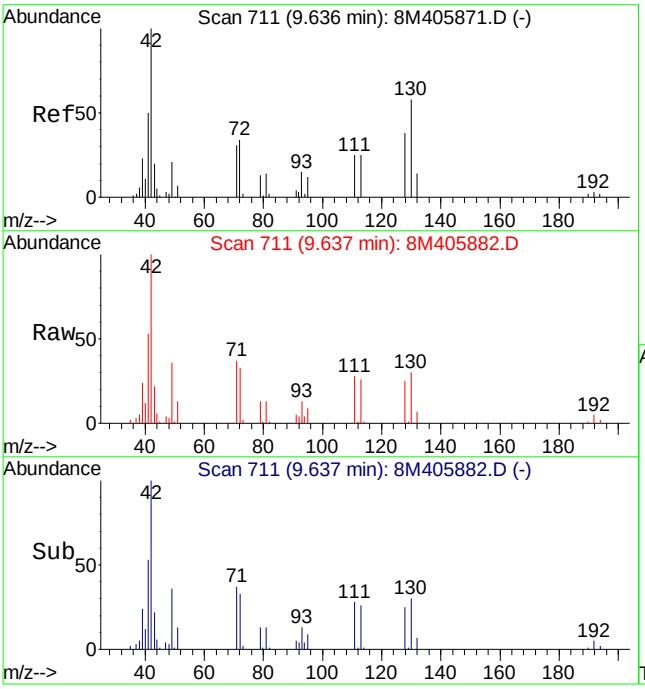


#35
Bromochloromethane
Concen: 20.64 ug/L
RT: 9.62 min Scan# 709
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:130 Resp: 72432

Ion	Ratio	Lower	Upper
130	100		
128	79.8	46.4	108.2
49	169.0	104.0	242.8

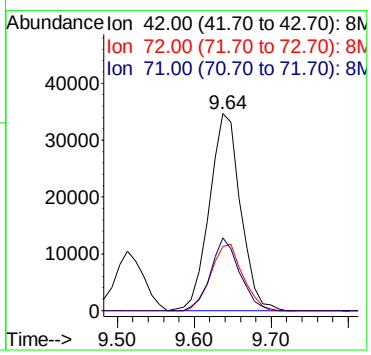


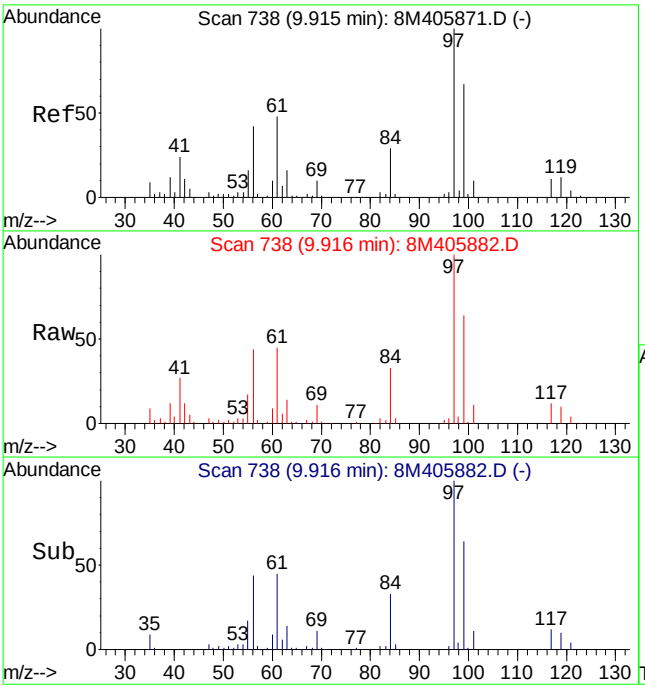


#36
Tetrahydrofuran
Concen: 96.66 ug/L
RT: 9.64 min Scan# 711
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 42 Resp: 97604

Ion	Ratio	Lower	Upper
42	100		
72	34.6	22.4	52.4
71	34.3	19.5	45.5

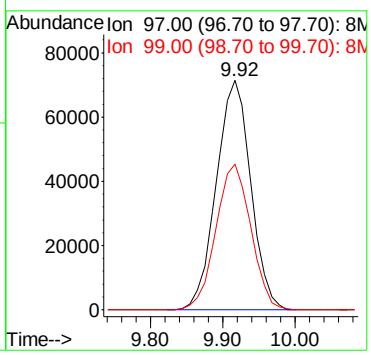


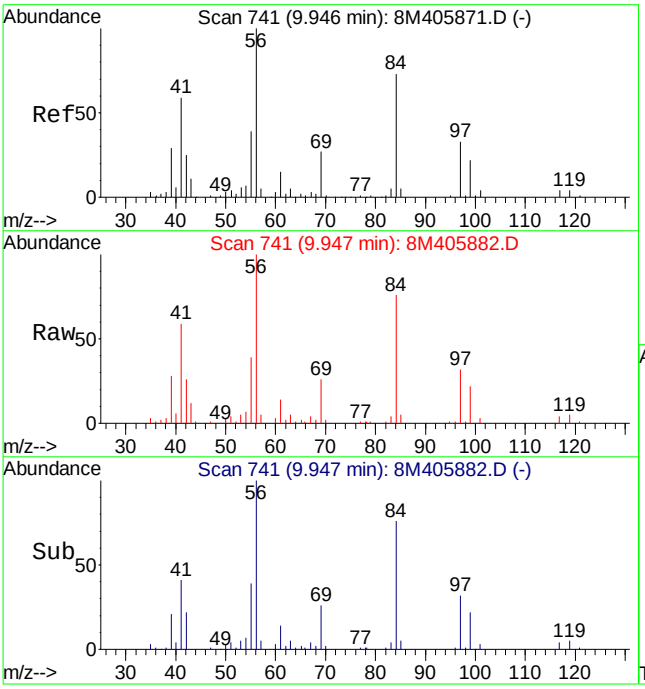


#38
1,1,1-Trichloroethane
Concen: 20.64 ug/L
RT: 9.92 min Scan# 738
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 97 Resp: 237983

Ion	Ratio	Lower	Upper
97	100		
99	64.4	39.7	92.7

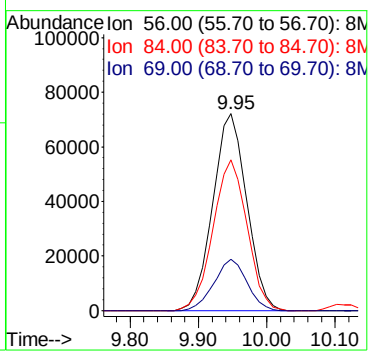


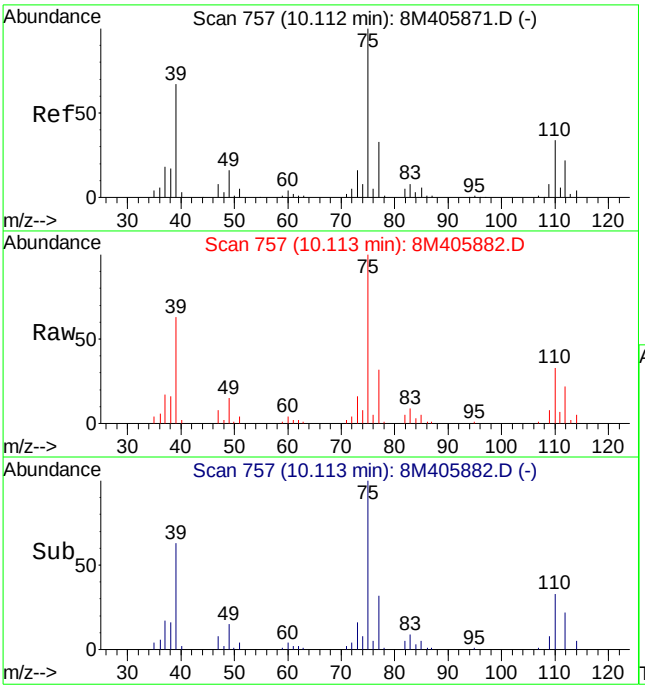


#39
Cyclohexane
Concen: 18.49 ug/L
RT: 9.95 min Scan# 741
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 56 Resp: 249251

Ion	Ratio	Lower	Upper
56	100		
84	76.6	45.4	105.8
69	25.3	15.8	37.0

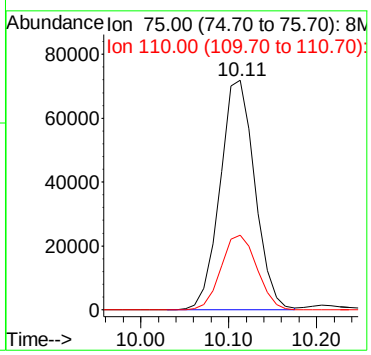


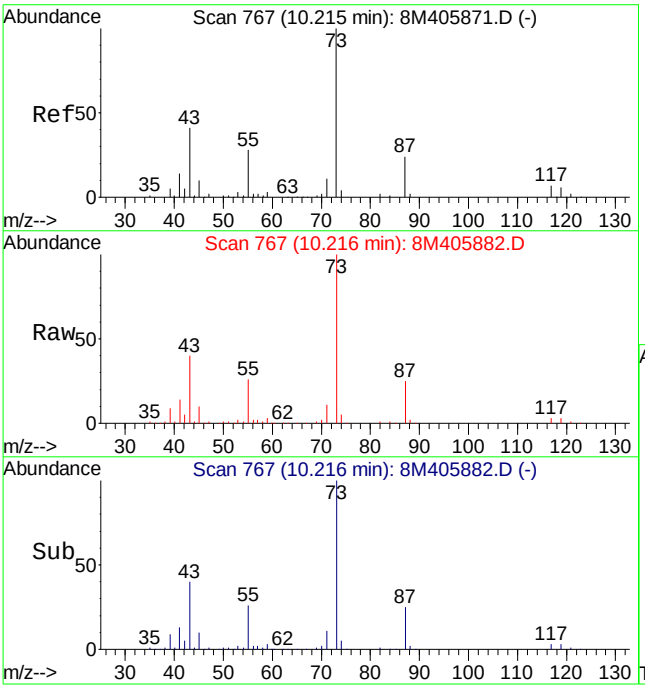


#40
1,1-Dichloropropene
Concen: 21.43 ug/L
RT: 10.11 min Scan# 757
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 75 Resp: 197984

Ion	Ratio	Lower	Upper
75	100		
110	33.5	20.2	47.0

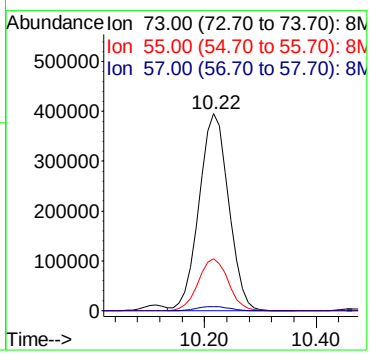


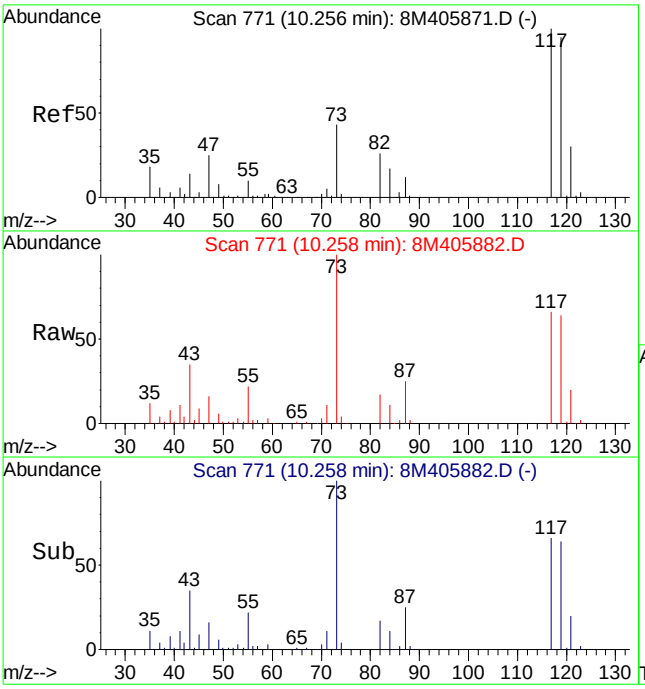


#41
Tert-Amyl-Methyl ether
Concen: 100.65 ug/L
RT: 10.22 min Scan# 767
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 73 Resp: 1451571

Ion	Ratio	Lower	Upper
73	100		
55	26.6	16.1	37.5
57	2.2	1.3	3.1

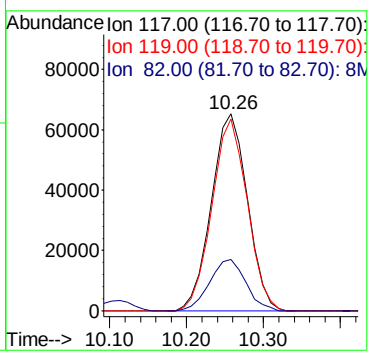


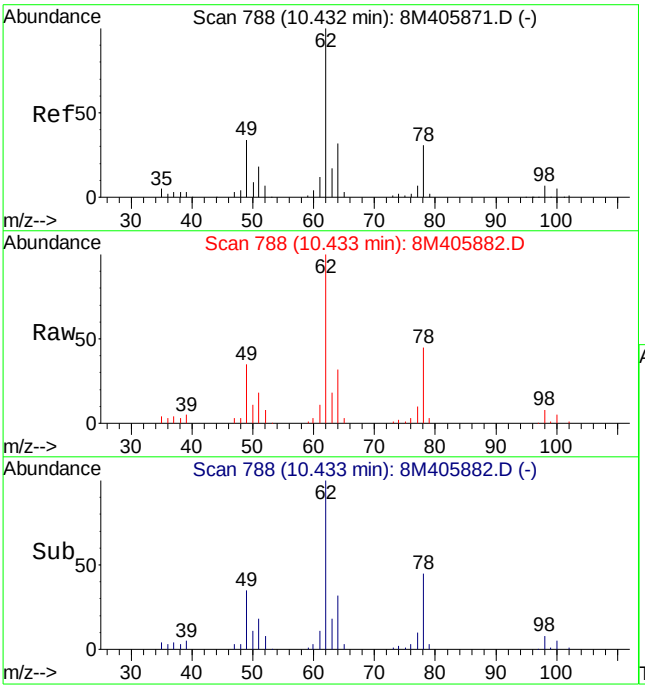


#42
Carbon Tetrachloride
Concen: 20.37 ug/L
RT: 10.26 min Scan# 771
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:117 Resp: 212632

Ion	Ratio	Lower	Upper
117	100		
119	95.2	58.0	135.2
82	26.0	15.7	36.5

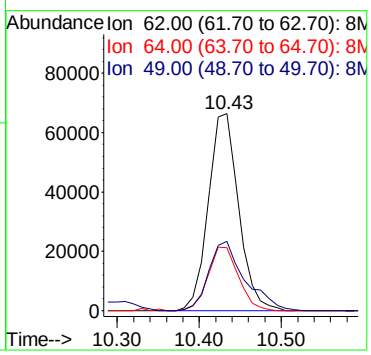


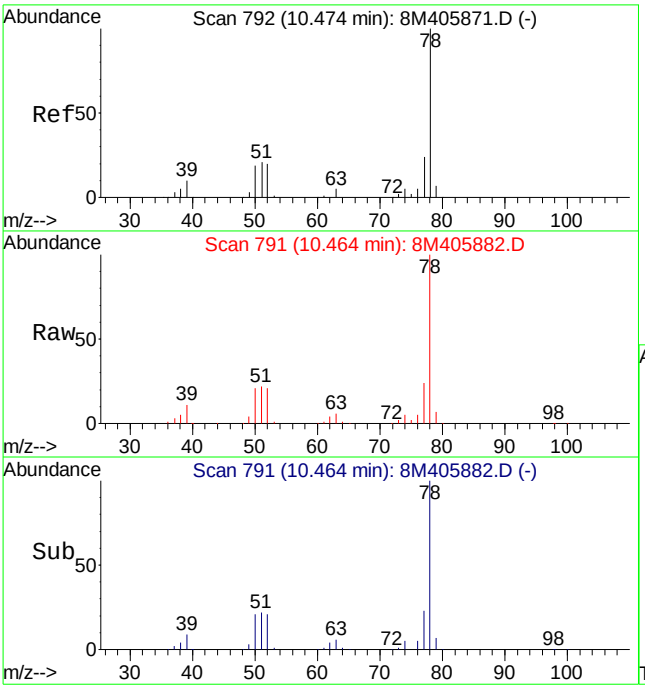


#45
1,2-Dichloroethane
Concen: 20.64 ug/L
RT: 10.43 min Scan# 788
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 62 Resp: 170483

Ion	Ratio	Lower	Upper
62	100		
64	32.4	18.8	44.0
49	41.7	25.3	58.9

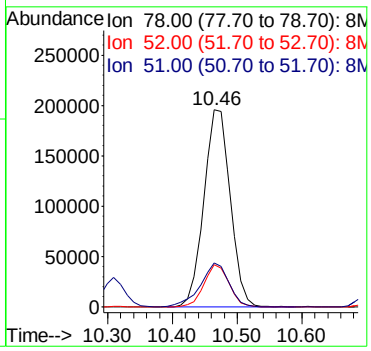


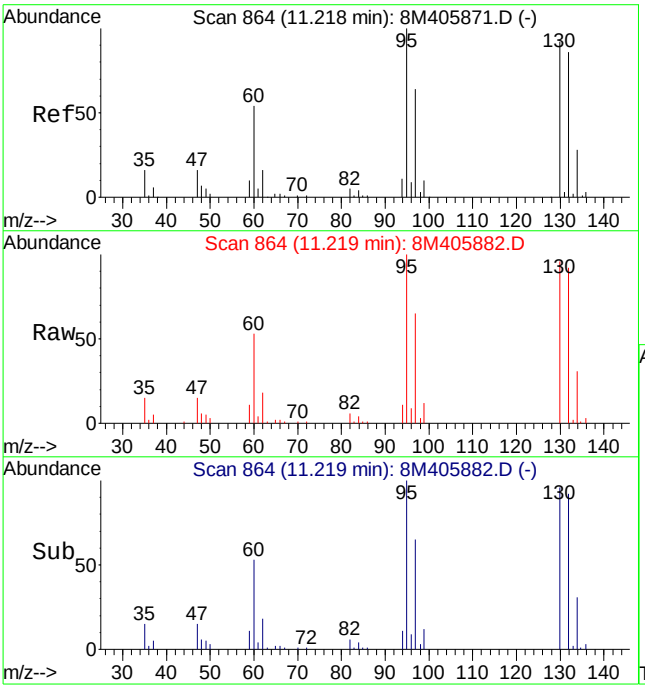


#46
Benzene
Concen: 20.93 ug/L
RT: 10.46 min Scan# 791
Delta R.T. -0.01 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 78 Resp: 554428

Ion	Ratio	Lower	Upper
78	100		
52	20.1	12.1	28.1
51	23.8	14.6	34.2

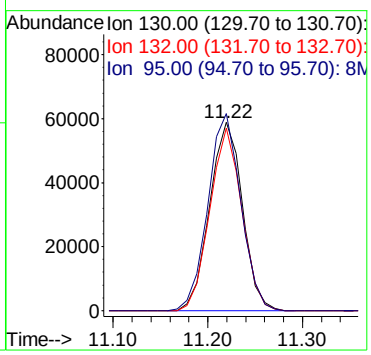


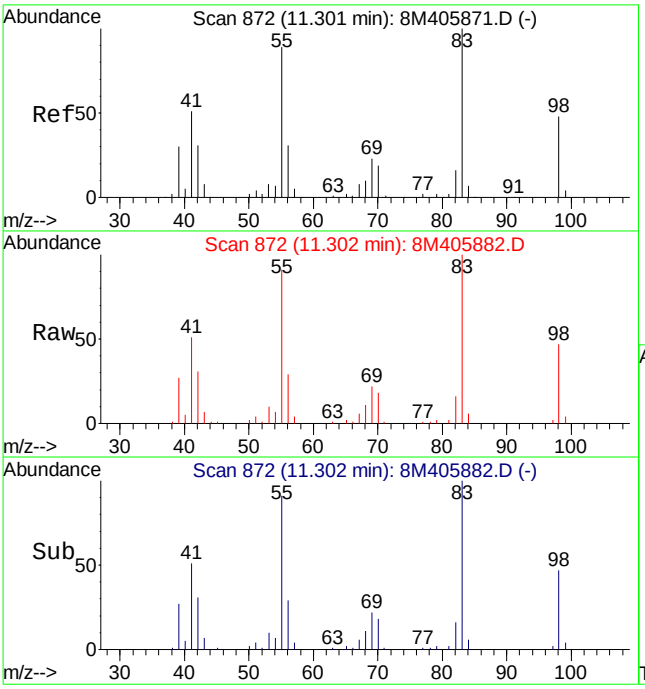


#47
Trichloroethene
Concen: 21.62 ug/L
RT: 11.22 min Scan# 864
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:130 Resp: 142447

Ion	Ratio	Lower	Upper
130	100		
132	94.1	59.0	137.6
95	104.8	65.0	151.8

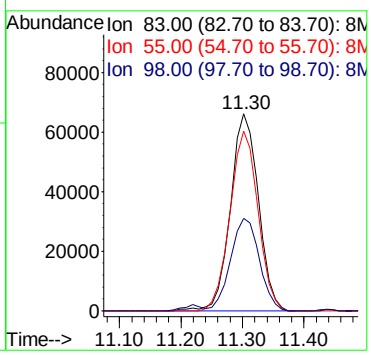


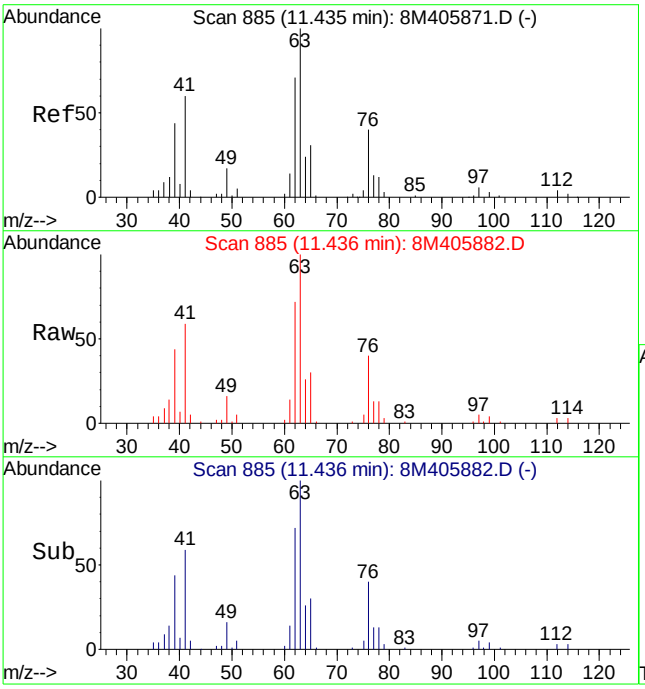


#48
Methylcyclohexane
Concen: 19.40 ug/L
RT: 11.30 min Scan# 872
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 83 Resp: 208388

Ion	Ratio	Lower	Upper
83	100		
55	91.4	54.8	128.0
98	48.3	29.0	67.8

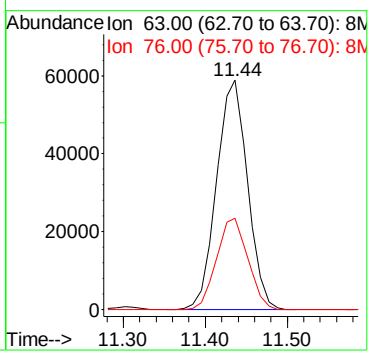


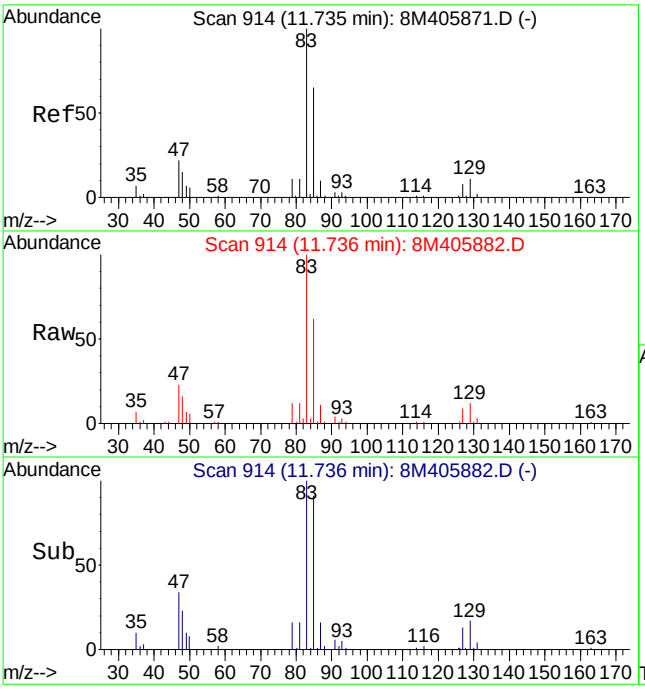


#49
1,2-Dichloropropane
Concen: 20.99 ug/L
RT: 11.44 min Scan# 885
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 63 Resp: 154238

Ion	Ratio	Lower	Upper
63	100		
76	40.1	24.4	57.0

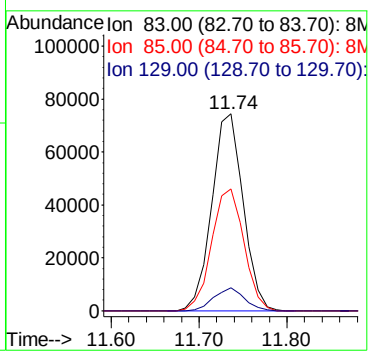


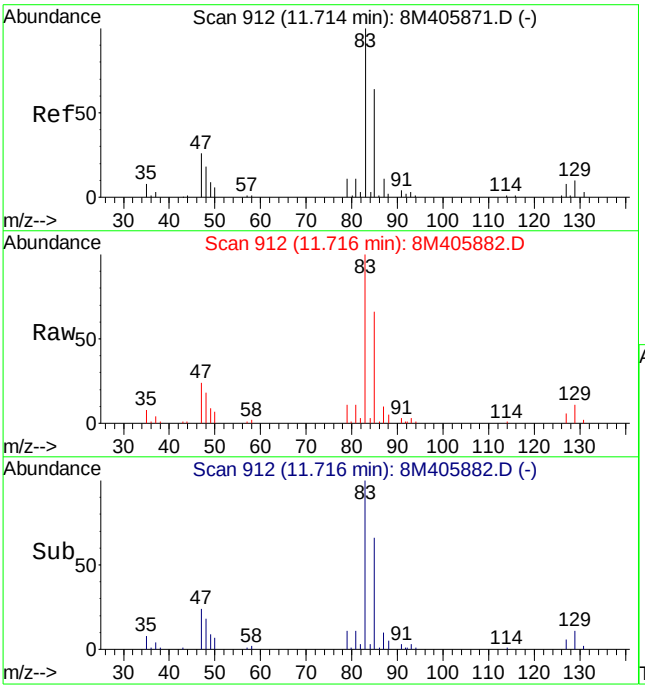


#50
Bromodichloromethane
Concen: 20.36 ug/L
RT: 11.74 min Scan# 914
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 83 Resp: 184691

Ion	Ratio	Lower	Upper
83	100		
85	63.6	38.6	90.2
129	11.3	6.6	15.4

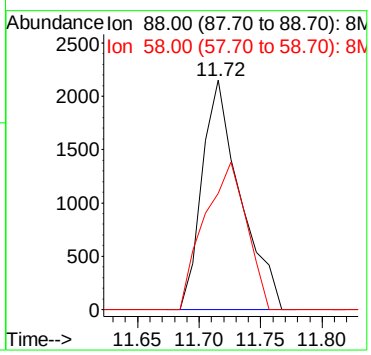


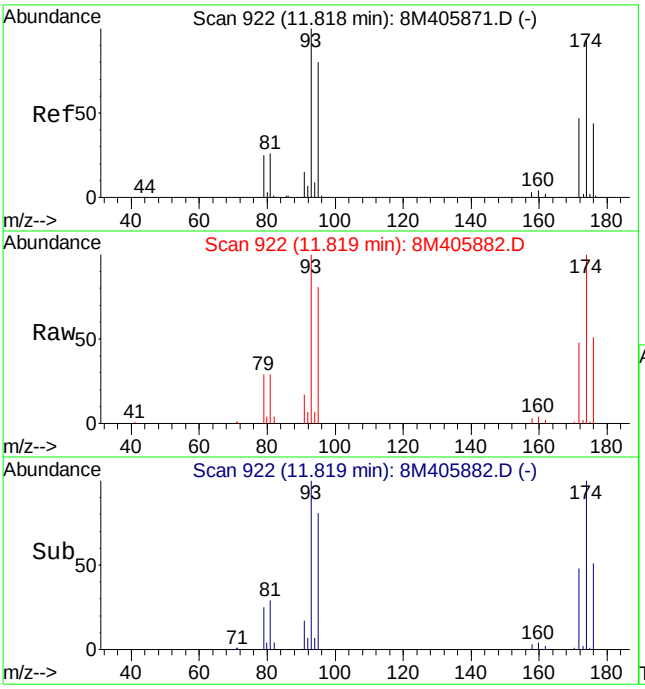


#51
1,4-Dioxane
Concen: 191.66 ug/L
RT: 11.72 min Scan# 912
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 88 Resp: 4636

Ion	Ratio	Lower	Upper
88	100		
58	71.1	46.9	109.3

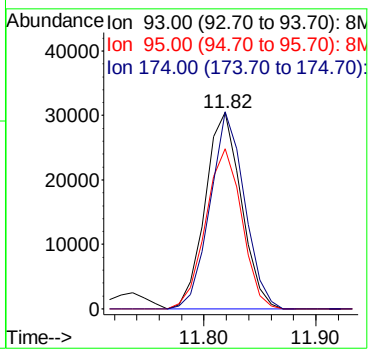


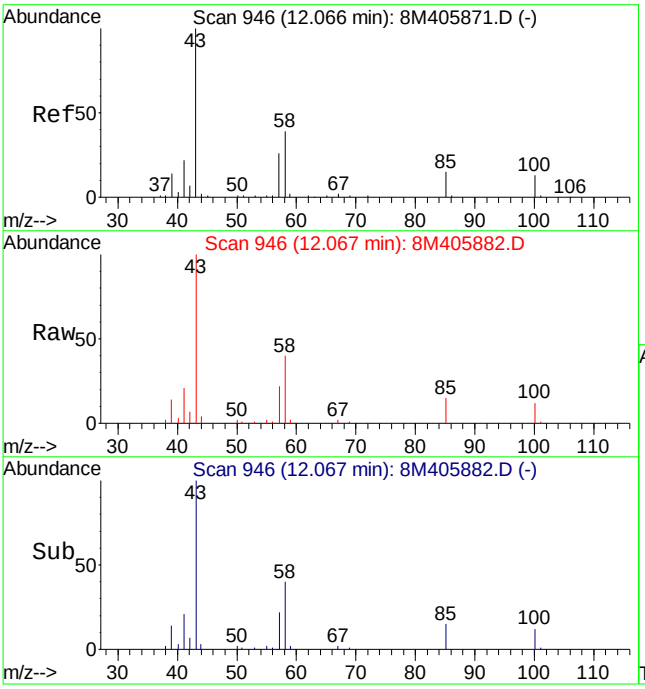


#52
Dibromomethane
Concen: 20.09 ug/L
RT: 11.82 min Scan# 922
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 93 Resp: 68247

Ion	Ratio	Lower	Upper
93	100		
95	81.6	48.9	114.1
174	95.7	58.1	135.5

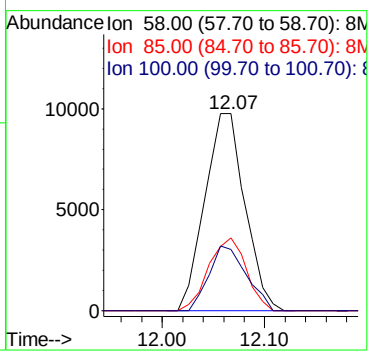


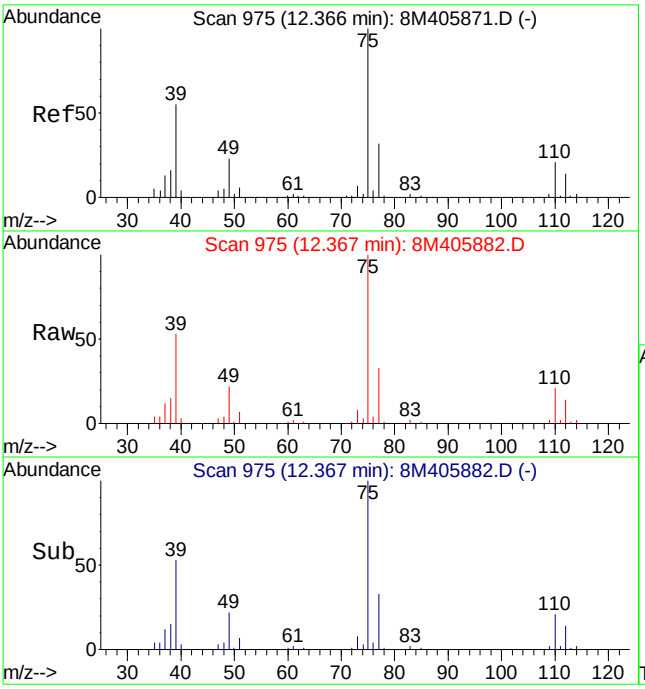


#54
4-Methyl-2-Pentanone
Concen: 19.40 ug/L
RT: 12.07 min Scan# 946
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 58 Resp: 26507

Ion	Ratio	Lower	Upper
58	100		
85	34.6	21.8	51.0
100	30.6	19.4	45.4

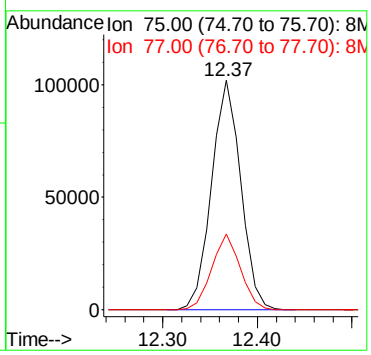


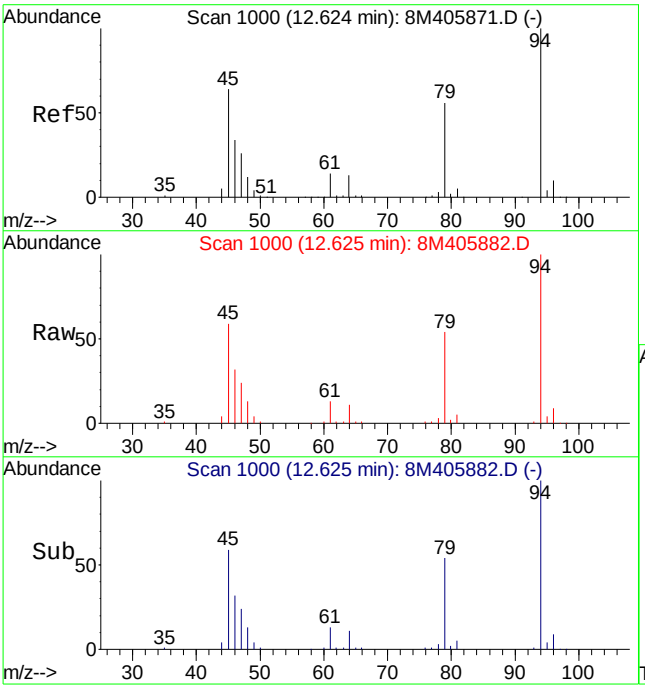


#55
cis-1,3-Dichloropropene
Concen: 21.84 ug/L
RT: 12.37 min Scan# 975
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 75 Resp: 219728

Ion	Ratio	Lower	Upper
75	100		
77	32.4	18.9	44.1

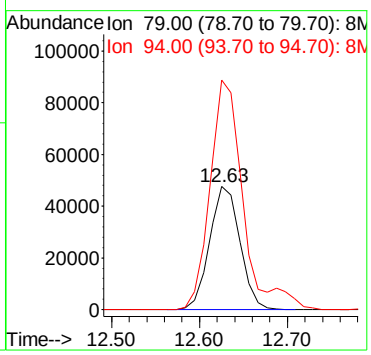


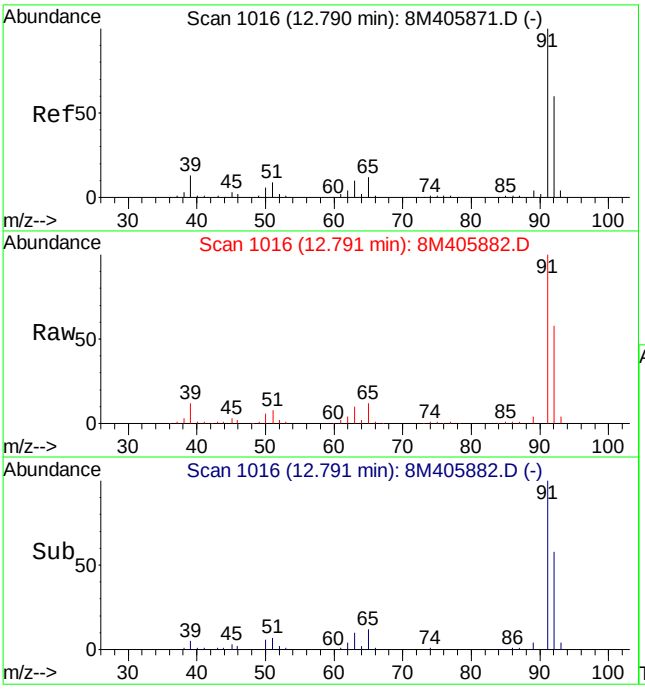


#56
Dimethyl Disulfide
Concen: 20.38 ug/L
RT: 12.63 min Scan# 1000
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 79 Resp: 114183

Ion	Ratio	Lower	Upper
79	100		
94	203.4	114.7	267.7

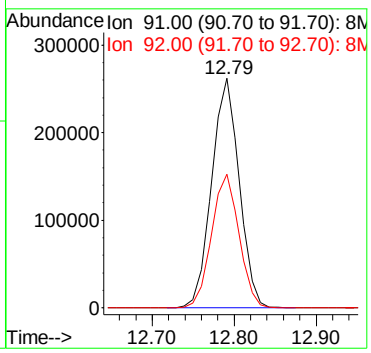


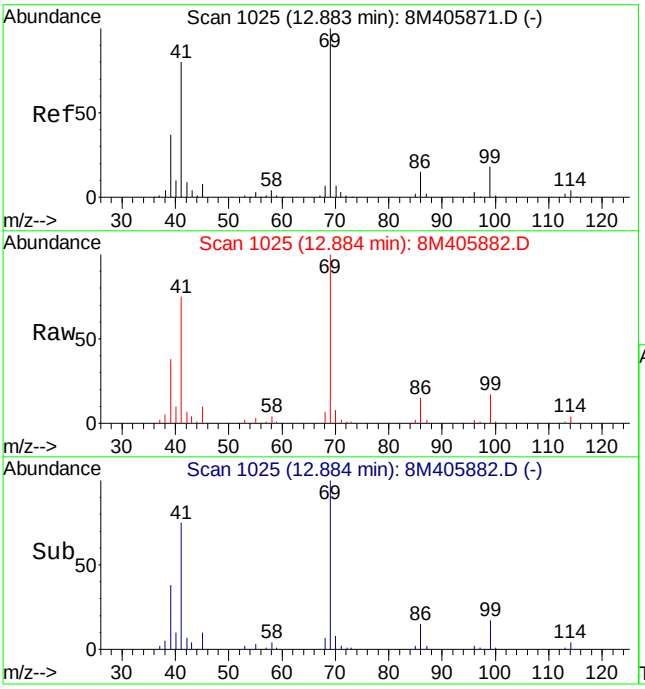


#59
Toluene
Concen: 21.93 ug/L
RT: 12.79 min Scan# 1016
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 91 Resp: 610253

Ion	Ratio	Lower	Upper
91	100		
92	58.1	35.7	83.3

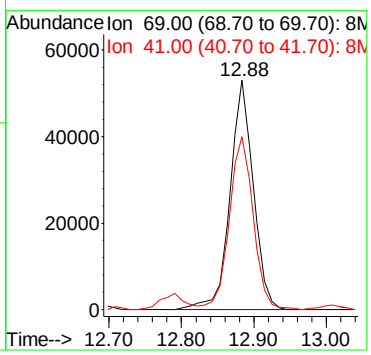


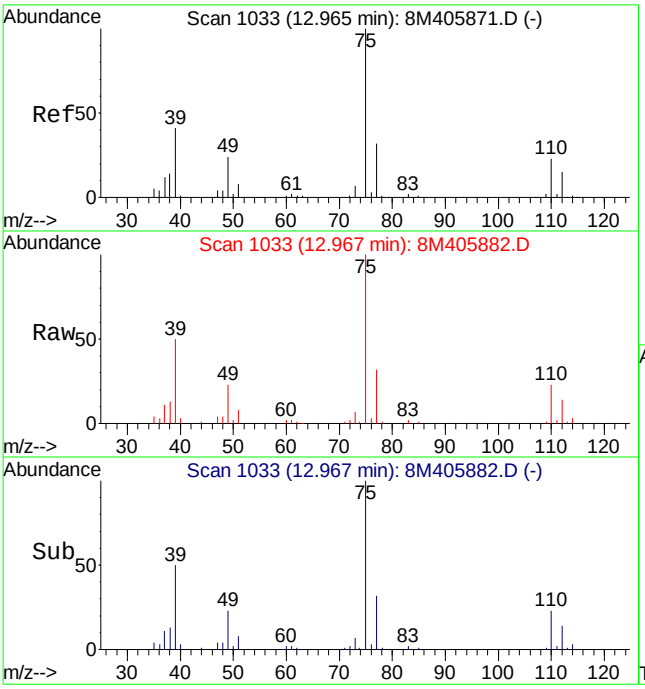


#60
Ethyl Methacrylate
Concen: 23.36 ug/L
RT: 12.88 min Scan# 1025
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 69 Resp: 119891

Ion	Ratio	Lower	Upper
69	100		
41	77.7	48.5	113.3

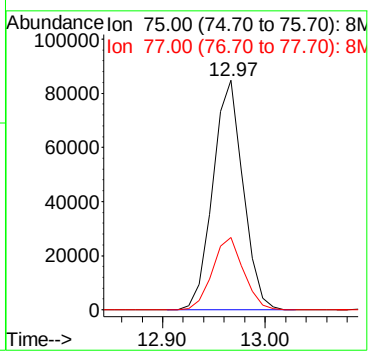


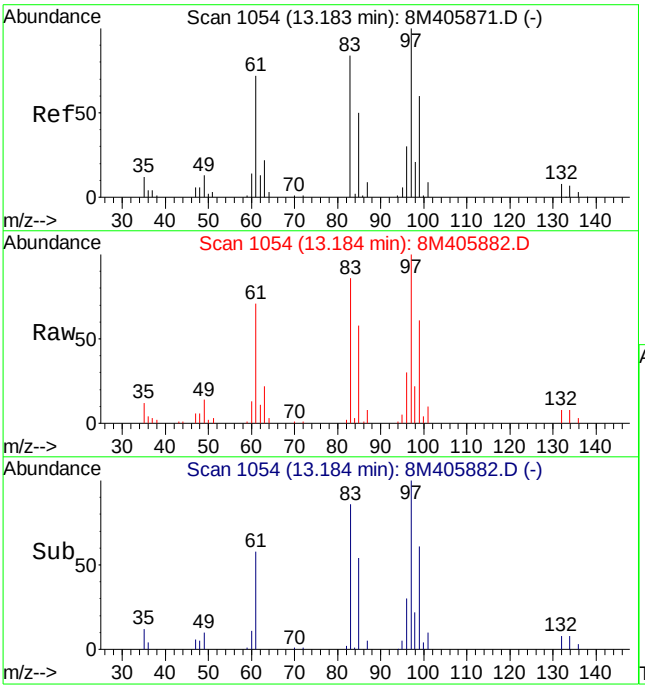


#62
trans-1,3-Dichloropropene
Concen: 20.25 ug/L
RT: 12.97 min Scan# 1033
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 75 Resp: 173838

Ion	Ratio	Lower	Upper
75	100		
77	32.5	19.2	44.8

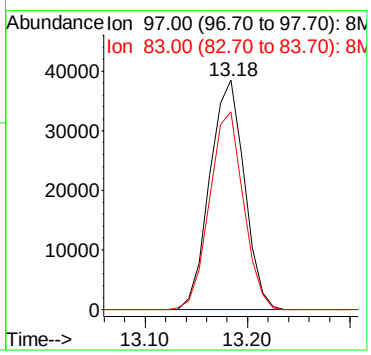


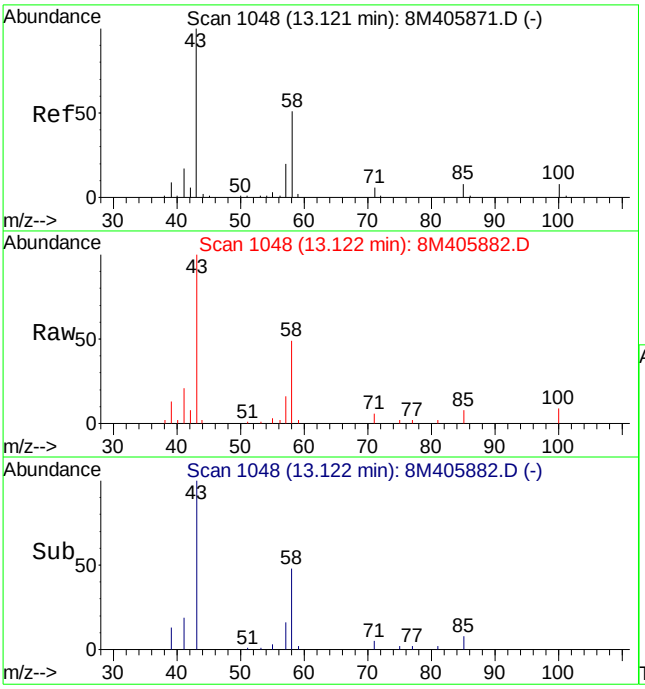


#63
1,1,2-Trichloroethane
Concen: 20.96 ug/L
RT: 13.18 min Scan# 1054
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 97 Resp: 90138

Ion	Ratio	Lower	Upper
97	100		
83	84.8	51.1	119.1

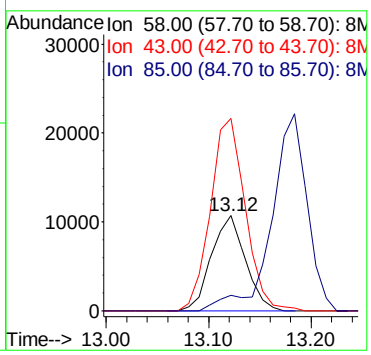


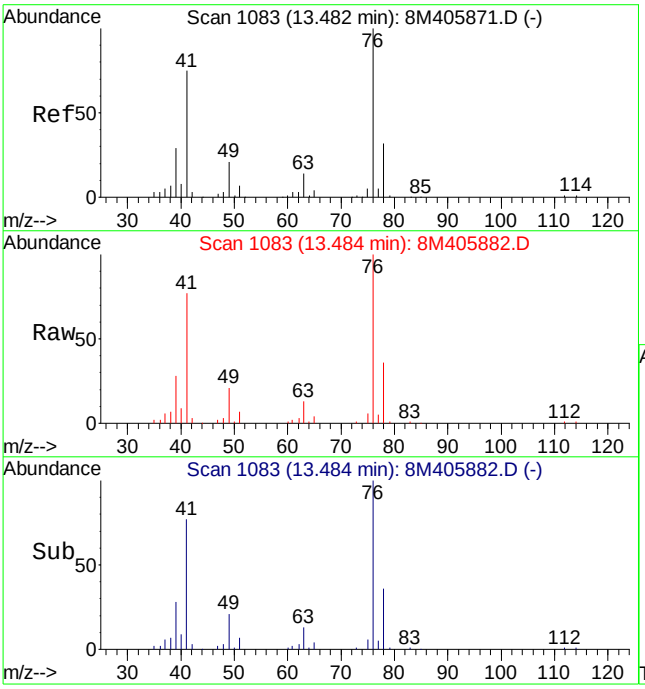


#64
2-Hexanone
Concen: 19.75 ug/L
RT: 13.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 58 Resp: 24543

Ion	Ratio	Lower	Upper
58	100		
43	207.7	116.8	272.4
85	215.4	0.0	0.0#

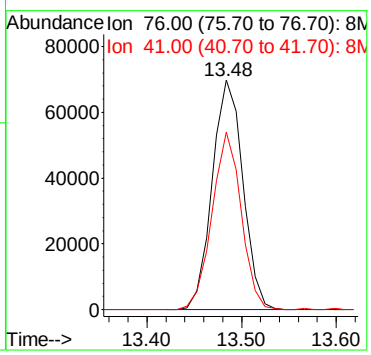


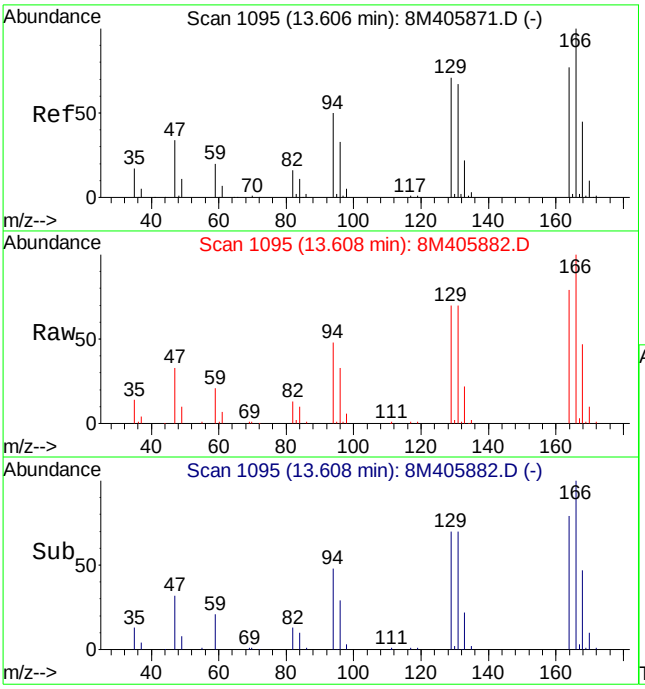


#65
1,3-Dichloropropane
Concen: 20.99 ug/L
RT: 13.48 min Scan# 1083
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 76 Resp: 158181

Ion	Ratio	Lower	Upper
76	100		
41	73.2	43.3	100.9

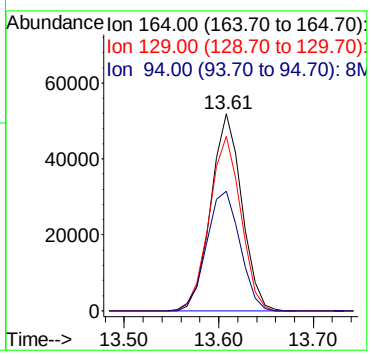


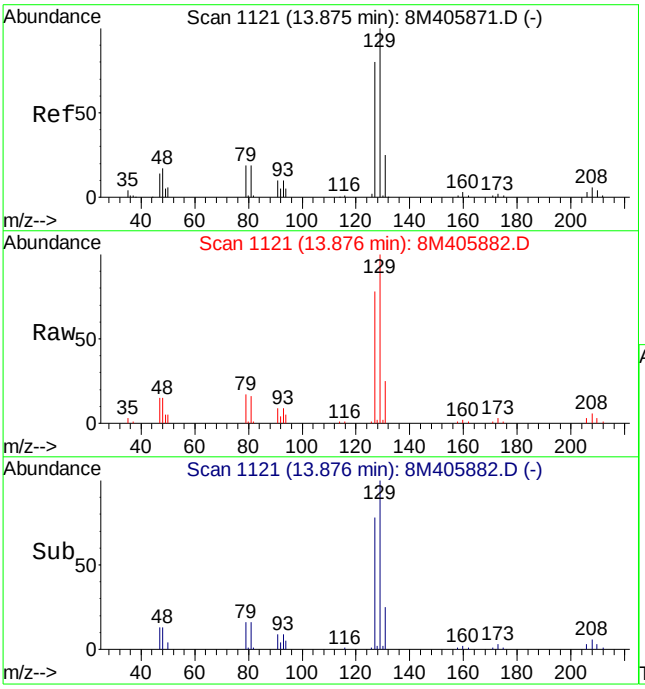


#66
Tetrachloroethene
Concen: 20.90 ug/L
RT: 13.61 min Scan# 1095
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:164 Resp: 118812

Ion	Ratio	Lower	Upper
164	100		
129	90.1	54.3	126.7
94	65.5	38.3	89.5

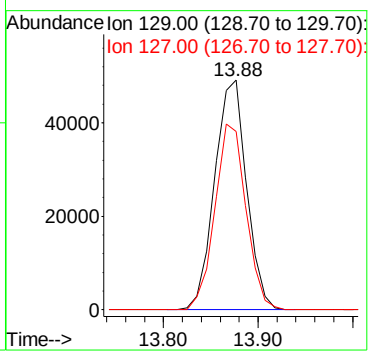


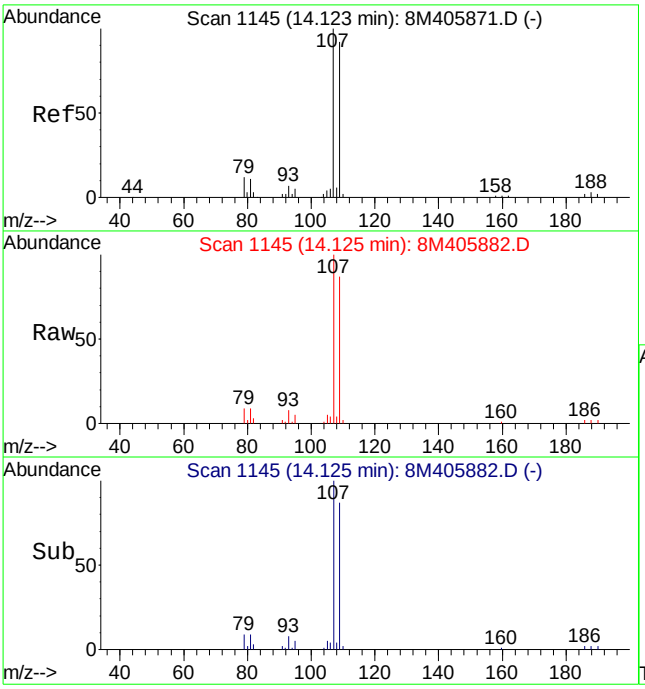


#67
Dibromochloromethane
Concen: 18.59 ug/L
RT: 13.88 min Scan# 1121
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:129 Resp: 115924

Ion	Ratio	Lower	Upper
129	100		
127	79.0	46.4	108.2

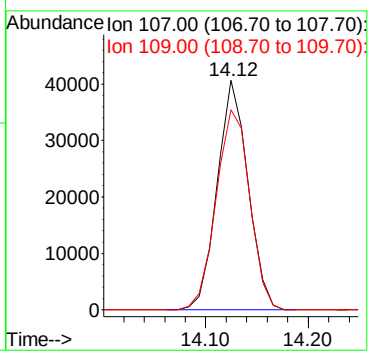


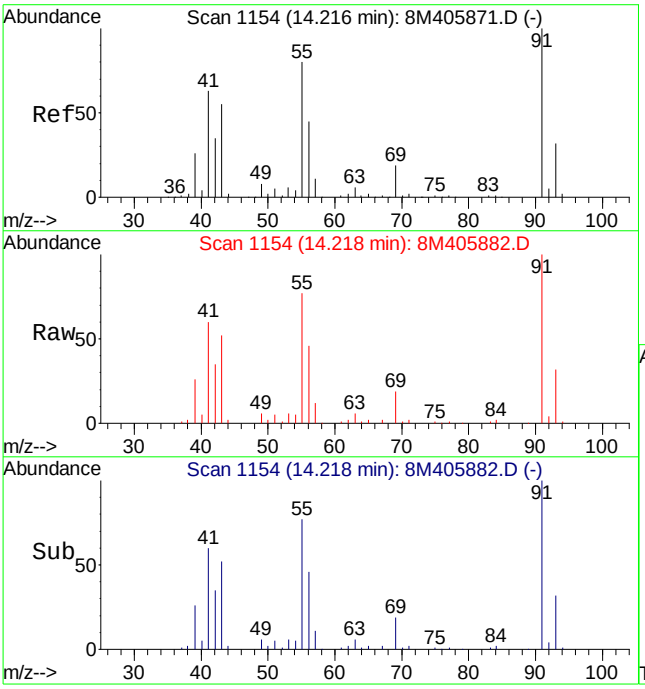


#68
1,2-Dibromoethane
Concen: 20.48 ug/L
RT: 14.12 min Scan# 1145
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:107 Resp: 84778

Ion	Ratio	Lower	Upper
107	100		
109	94.9	56.5	131.7

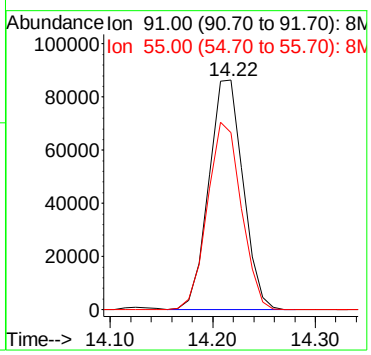


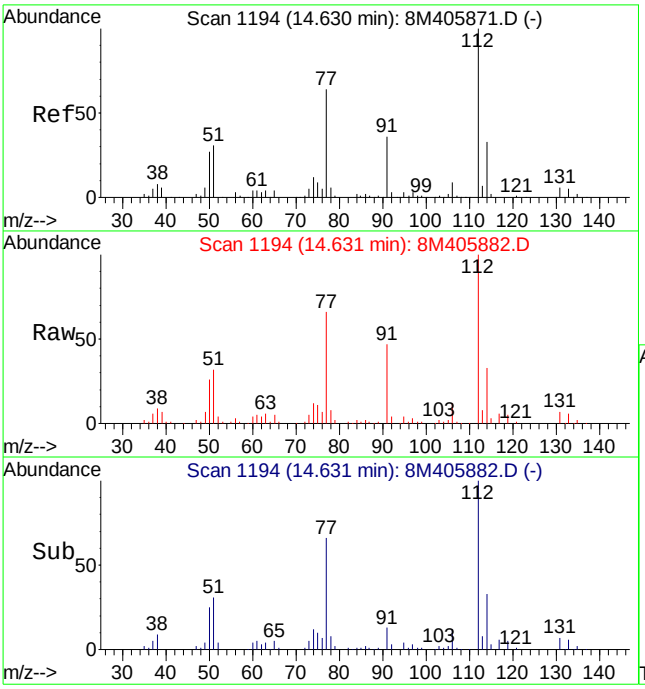


#69
1-Chlorohexane
Concen: 20.64 ug/L
RT: 14.22 min Scan# 1154
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 91 Resp: 200423

Ion	Ratio	Lower	Upper
91	100		
55	80.7	48.3	112.7

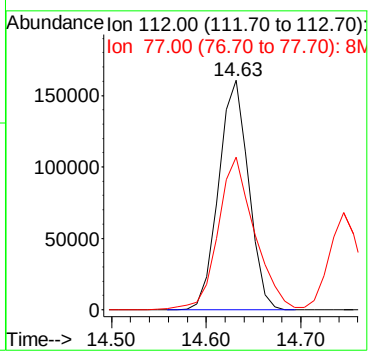


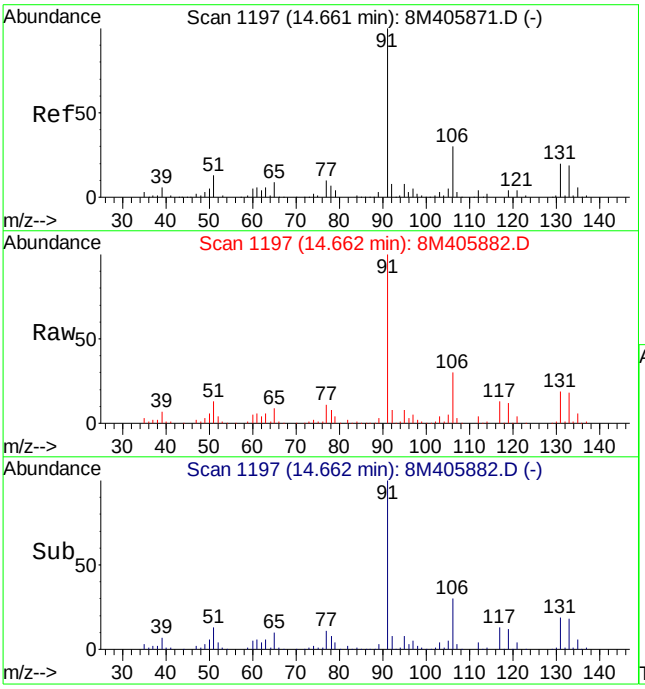


#70
Chlorobenzene
Concen: 19.05 ug/L
RT: 14.63 min Scan# 1194
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:112 Resp: 355387

Ion	Ratio	Lower	Upper
112	100		
77	81.0	47.6	111.0

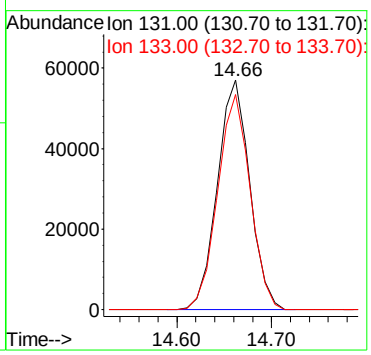


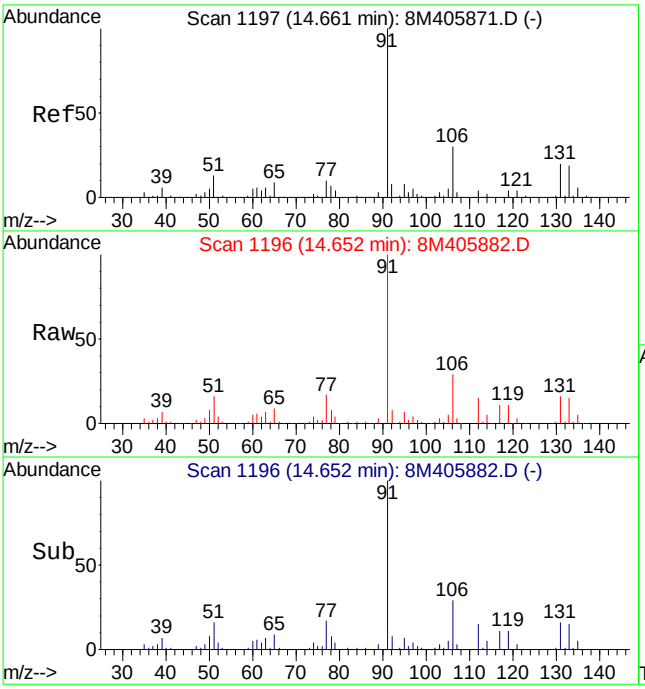


#71
1,1,1,2-Tetrachloroethane
Concen: 20.10 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:131 Resp: 136388

Ion	Ratio	Lower	Upper
131	100		
133	94.2	57.1	133.1

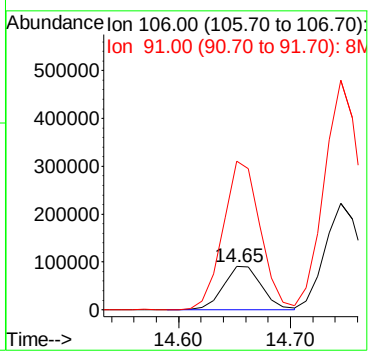


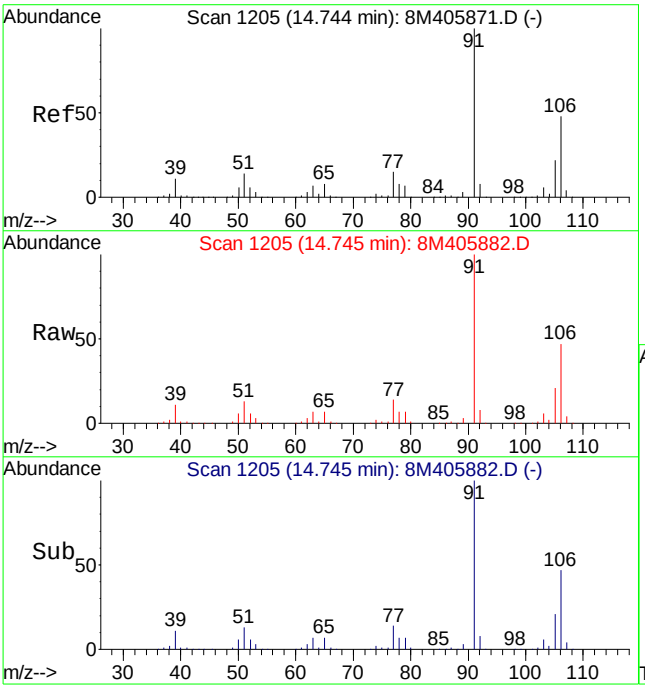


#72
Ethylbenzene
Concen: 20.61 ug/L
RT: 14.65 min Scan# 1196
Delta R.T. -0.01 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:106 Resp: 216321

Ion	Ratio	Lower	Upper
106	100		
91	333.8	199.7	466.1

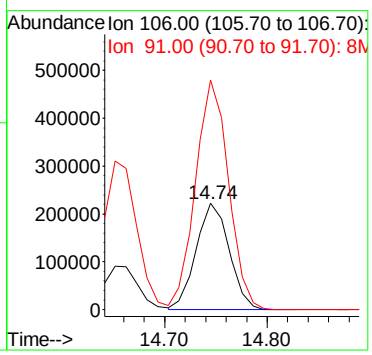


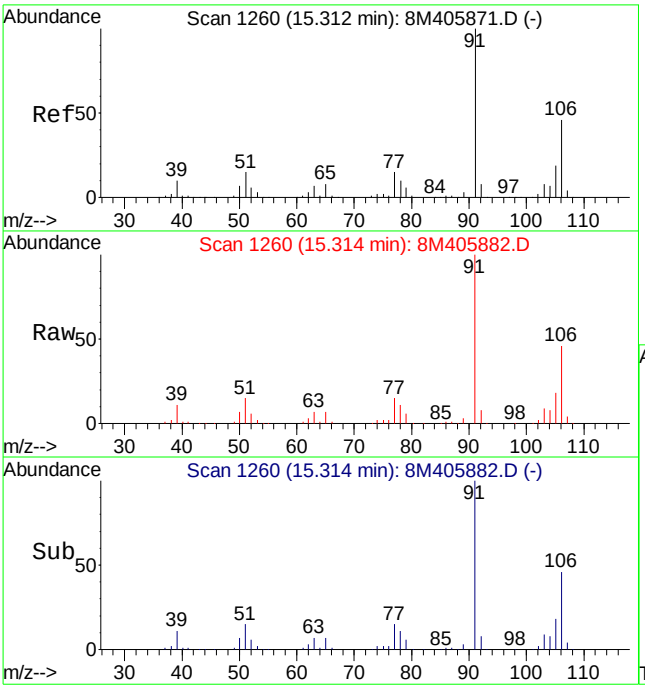


#73
m-,p-Xylene
Concen: 40.52 ug/L
RT: 14.74 min Scan# 1205
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:106 Resp: 501016

Ion	Ratio	Lower	Upper
106	100		
91	214.6	125.1	291.9

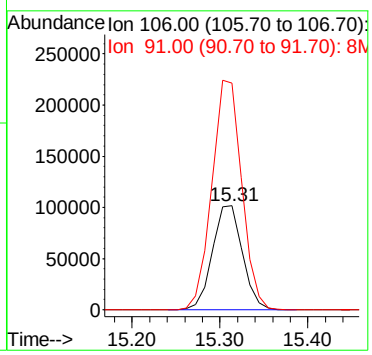


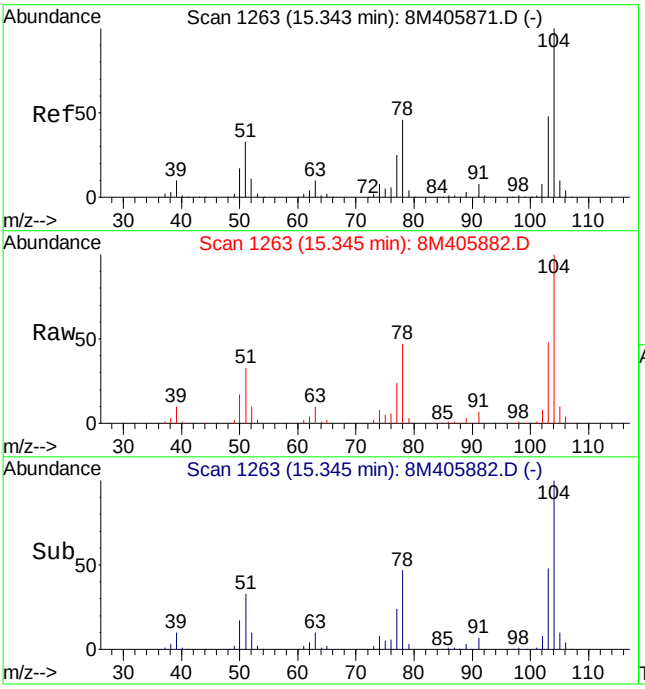


#74
o-Xylene
Concen: 20.17 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:106 Resp: 241831

Ion	Ratio	Lower	Upper
106	100		
91	219.5	134.3	313.5

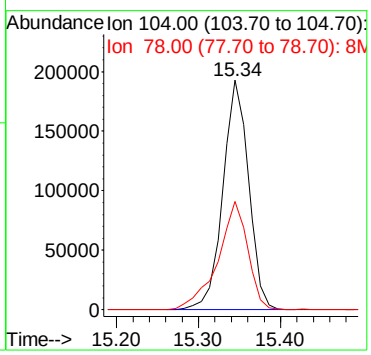


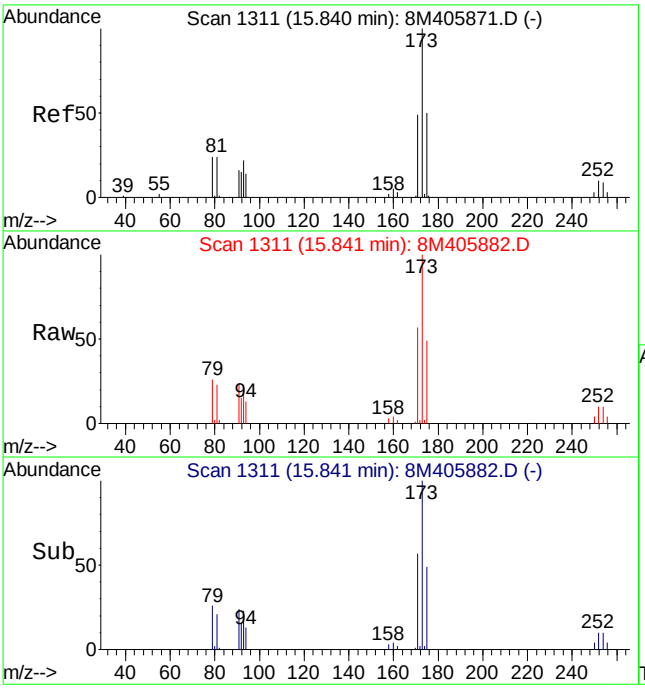


#75
Styrene
Concen: 21.77 ug/L
RT: 15.34 min Scan# 1263
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:104 Resp: 419712

Ion	Ratio	Lower	Upper
104	100		
78	54.6	32.9	76.7

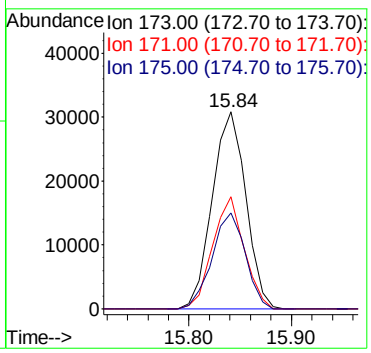


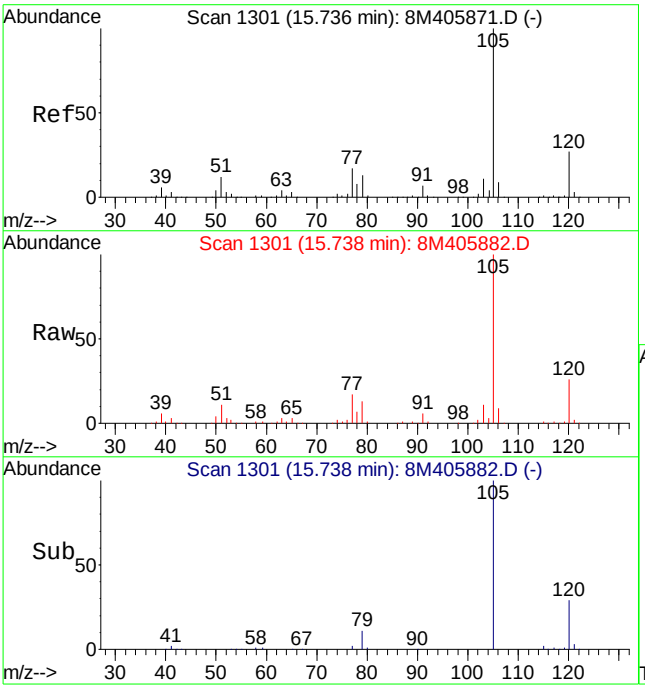


#76
Bromoform
Concen: 18.78 ug/L
RT: 15.84 min Scan# 1311
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:173 Resp: 70106

Ion	Ratio	Lower	Upper
173	100		
171	53.2	30.5	71.1
175	48.2	29.8	69.4

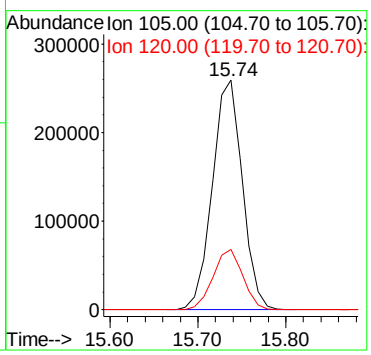


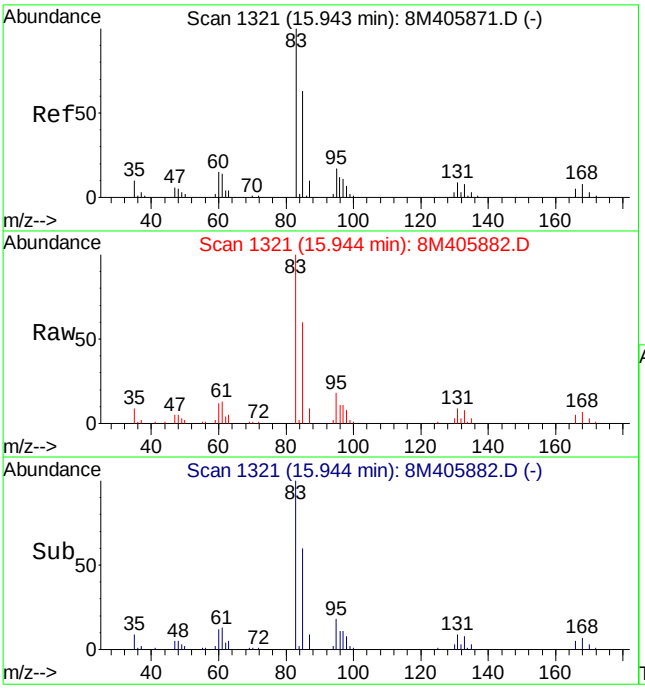


#77
Isopropylbenzene
Concen: 20.40 ug/L
RT: 15.74 min Scan# 1301
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:105 Resp: 613672

Ion	Ratio	Lower	Upper
105	100		
120	26.2	16.0	37.2

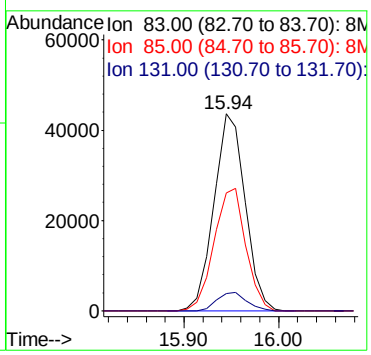


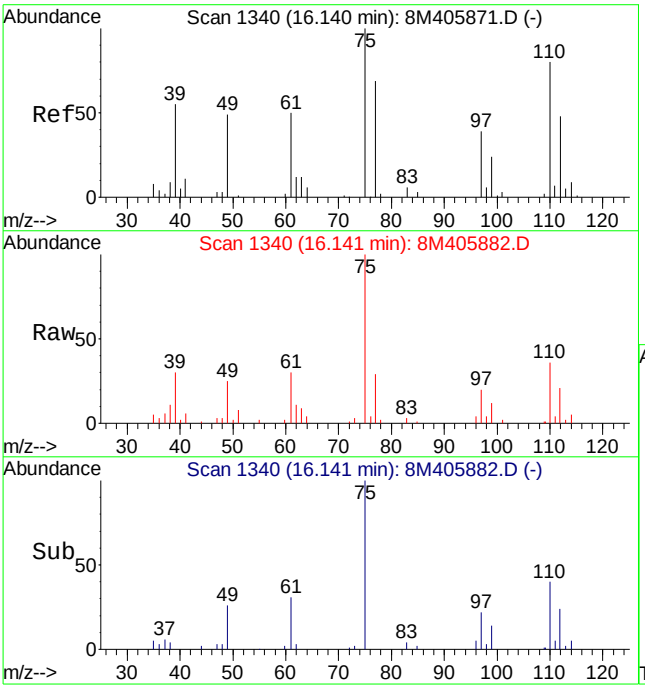


#79
1,1,2,2-Tetrachloroethane
Concen: 21.07 ug/L
RT: 15.94 min Scan# 1321
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 83 Resp: 101004

Ion	Ratio	Lower	Upper
83	100		
85	63.1	38.3	89.3
131	8.7	5.8	13.4

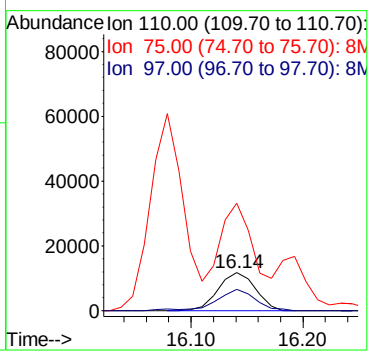


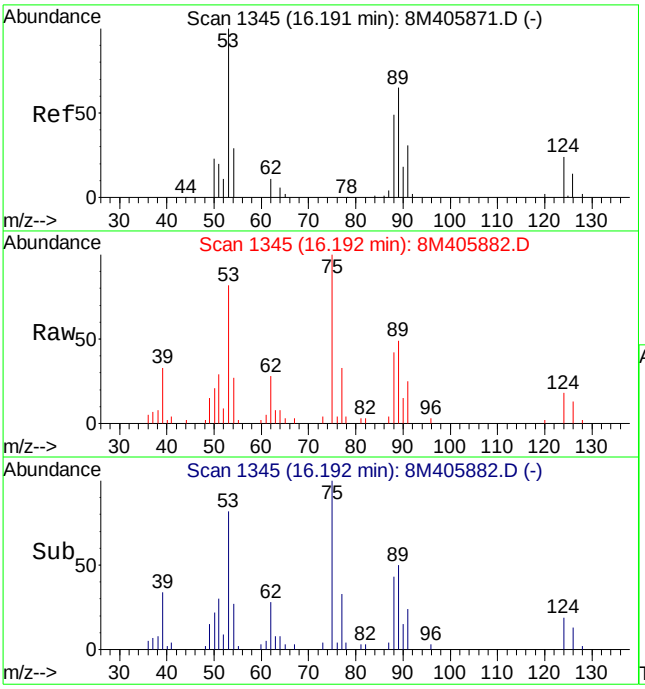


#81
1,2,3-Trichloropropane
Concen: 19.76 ug/L
RT: 16.14 min Scan# 1340
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:110 Resp: 27208

Ion	Ratio	Lower	Upper
110	100		
75	276.8	168.8	393.8
97	57.0	31.0	72.2

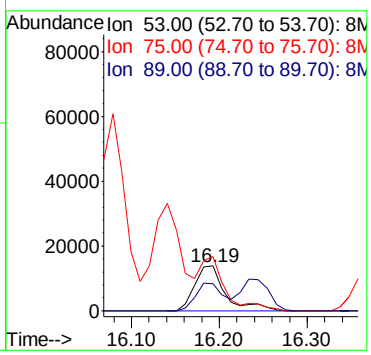


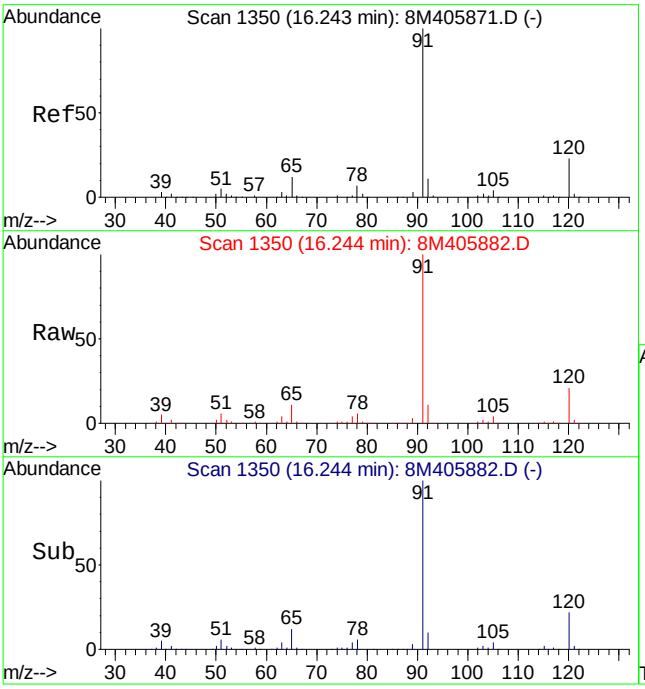


#82
trans-1,4-Dichloro-2-Butene
Concen: 19.50 ug/L
RT: 16.19 min Scan# 1345
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 53 Resp: 33344

Ion	Ratio	Lower	Upper
53	100		
75	97.1	58.5	136.5
89	56.3	33.5	78.1

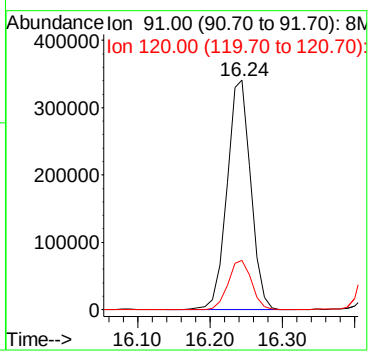


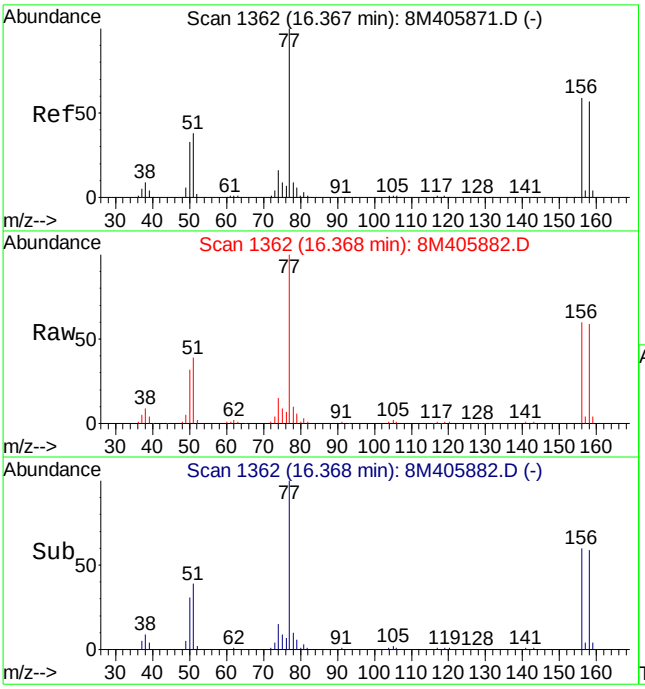


#83
n-Propylbenzene
Concen: 20.28 ug/L
RT: 16.24 min Scan# 1350
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 91 Resp: 782965

Ion	Ratio	Lower	Upper
91	100		
120	21.2	13.1	30.5

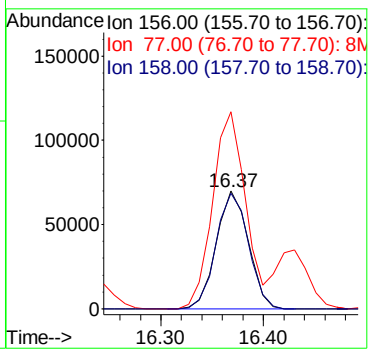


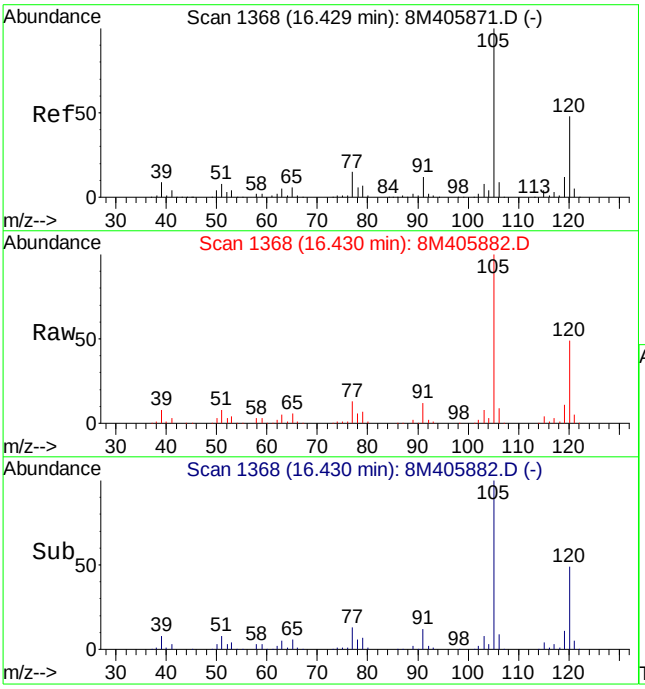


#84
Bromobenzene
Concen: 19.26 ug/L
RT: 16.37 min Scan# 1362
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:156 Resp: 151779

Ion	Ratio	Lower	Upper
156	100		
77	171.1	100.2	233.8
158	99.6	58.1	135.7

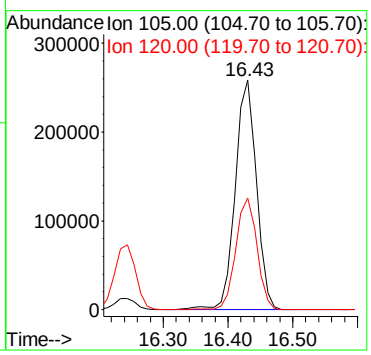


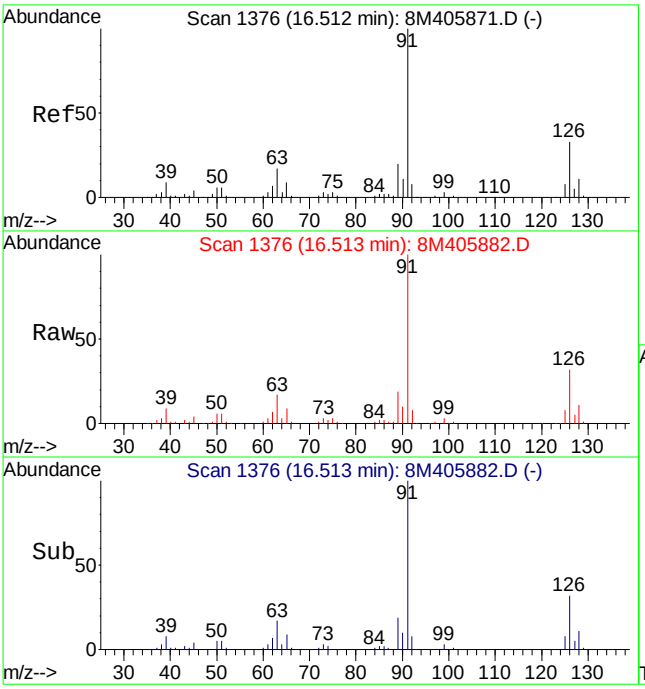


#85
1,3,5-Trimethylbenzene
Concen: 21.73 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:105 Resp: 585079

Ion	Ratio	Lower	Upper
105	100		
120	48.7	28.8	67.2

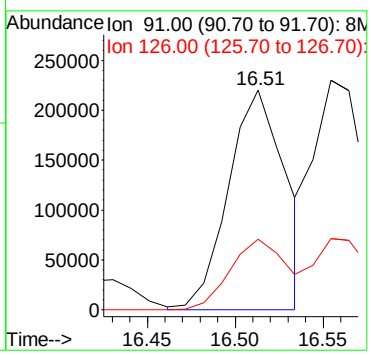


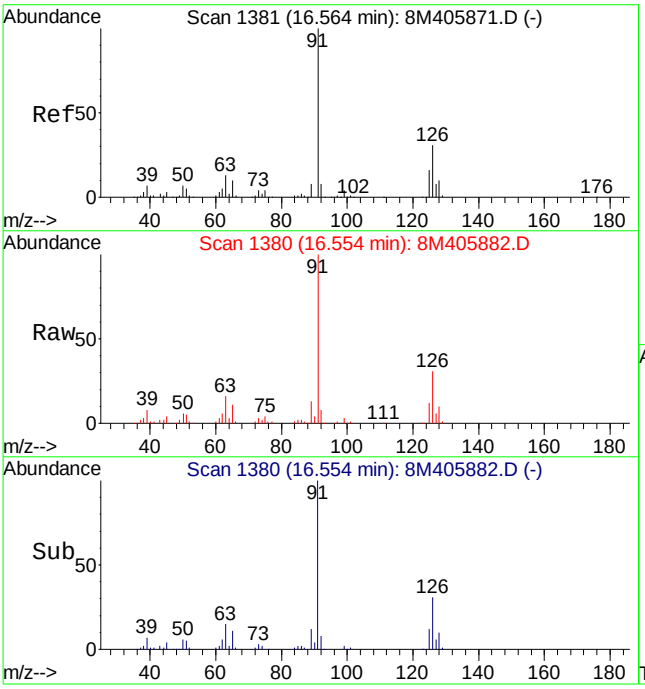


#86
2-Chlorotoluene
Concen: 20.31 ug/L
RT: 16.51 min Scan# 1376
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 91 Resp: 495153

Ion	Ratio	Lower	Upper
91	100		
126	31.7	19.4	45.4

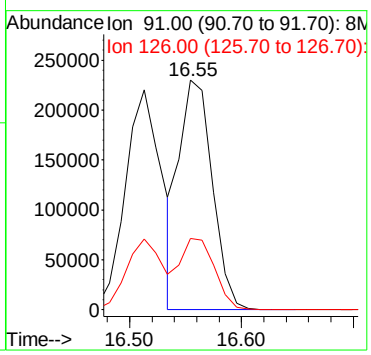


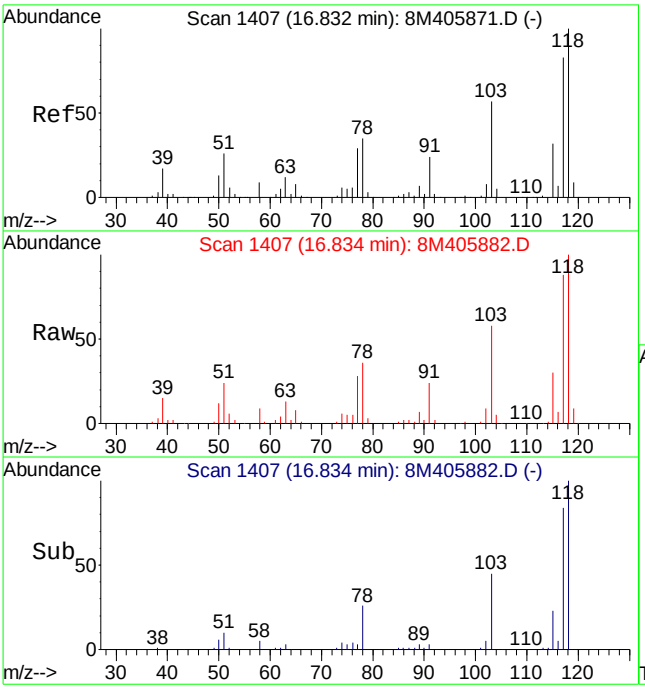


#87
4-Chlorotoluene
Concen: 19.10 ug/L
RT: 16.55 min Scan# 1380
Delta R.T. -0.01 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 91 Resp: 471785

Ion	Ratio	Lower	Upper
91	100		
126	32.7	19.7	45.9

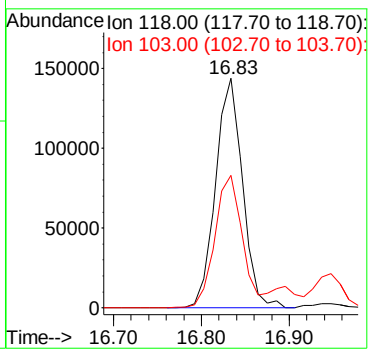


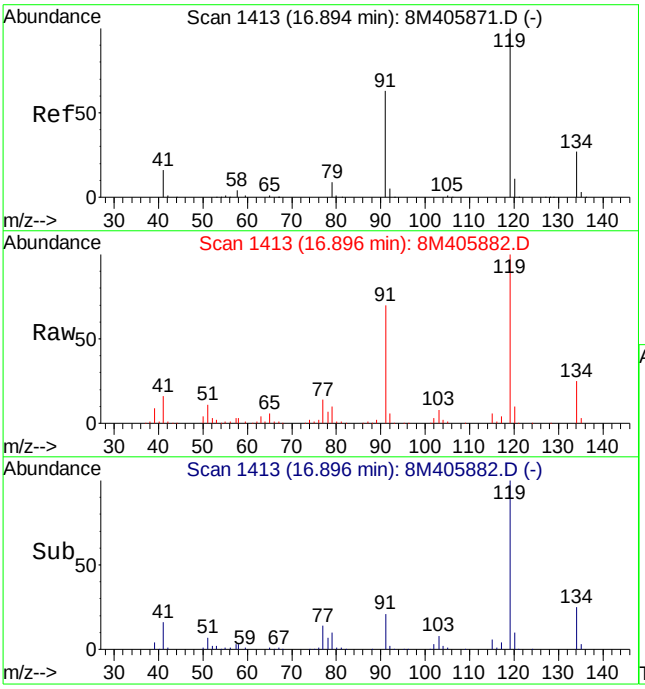


#88
a-Methylstyrene
Concen: 21.47 ug/L
RT: 16.83 min Scan# 1407
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:118 Resp: 306721

Ion	Ratio	Lower	Upper
118	100		
103	60.3	35.9	83.7

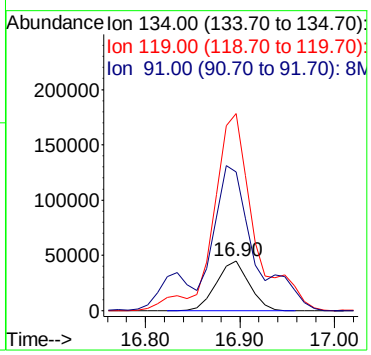


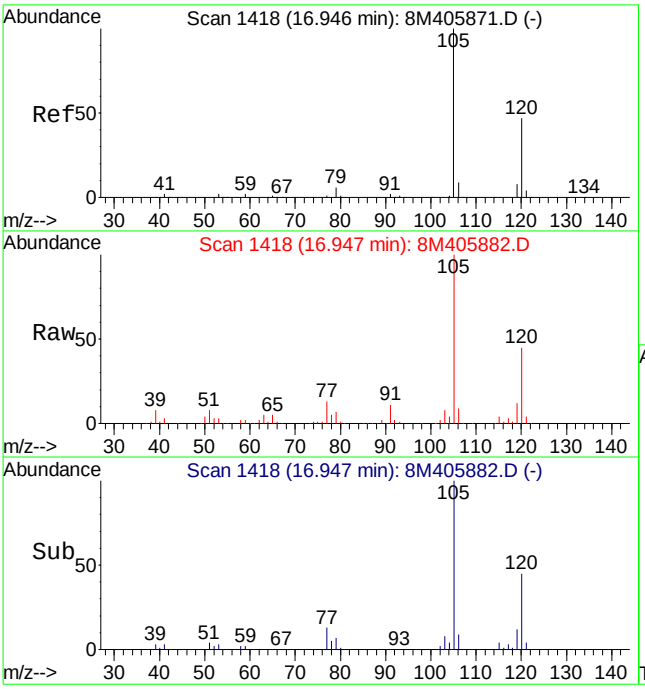


#89
tert-Butylbenzene
Concen: 19.83 ug/L
RT: 16.90 min Scan# 1413
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:134 Resp: 108813

Ion	Ratio	Lower	Upper
134	100		
119	493.0	293.9	685.7
91	355.1	214.9	501.3

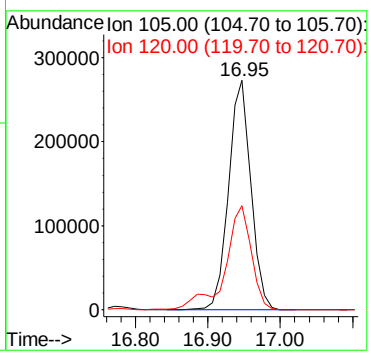


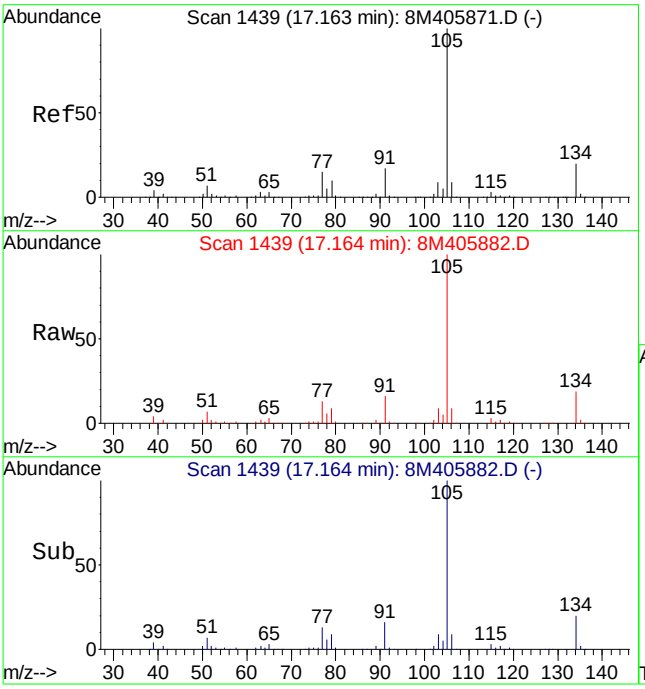


#90
1,2,4-Trimethylbenzene
Concen: 21.60 ug/L
RT: 16.95 min Scan# 1418
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:105 Resp: 592992

Ion	Ratio	Lower	Upper
105	100		
120	52.9	32.3	75.5

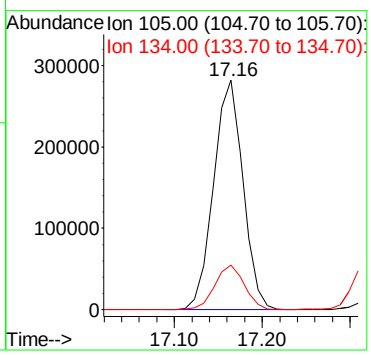


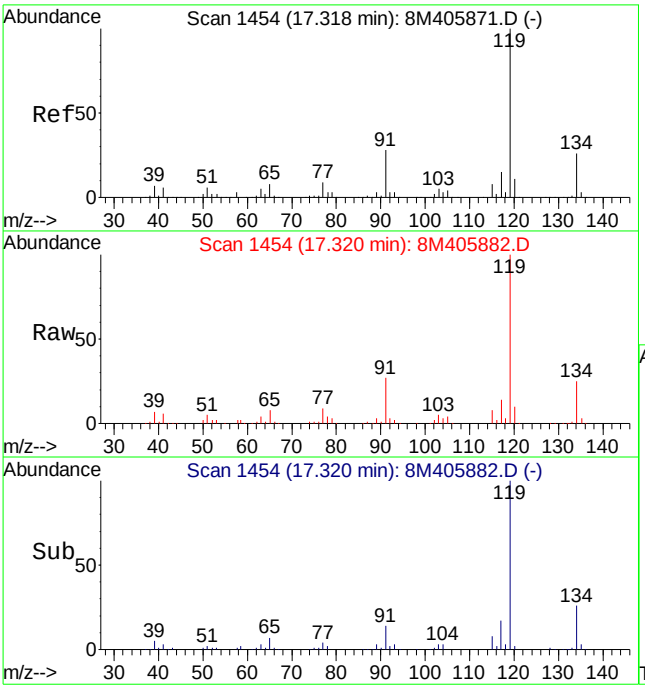


#91
sec-Butylbenzene
Concen: 20.47 ug/L
RT: 17.16 min Scan# 1439
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:105 Resp: 657001

Ion	Ratio	Lower	Upper
105	100		
134	19.4	11.8	27.4

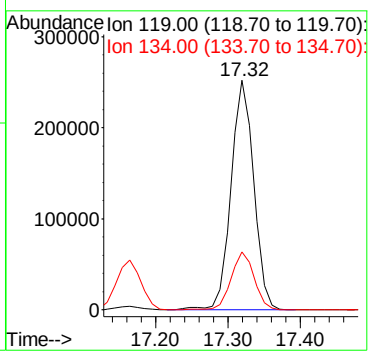


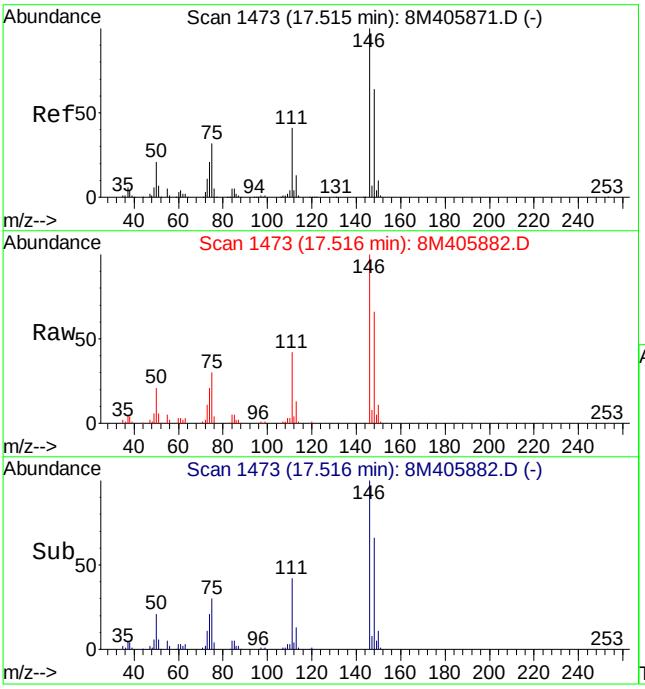


#92
p-Isopropyltoluene
Concen: 20.02 ug/L
RT: 17.32 min Scan# 1454
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:119 Resp: 558423

Ion	Ratio	Lower	Upper
119	100		
134	25.5	15.8	36.8

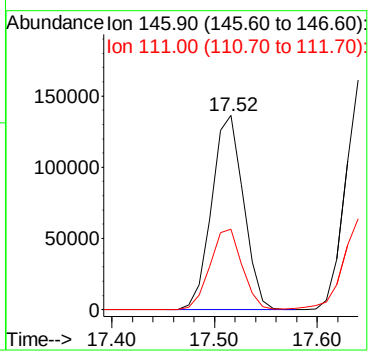


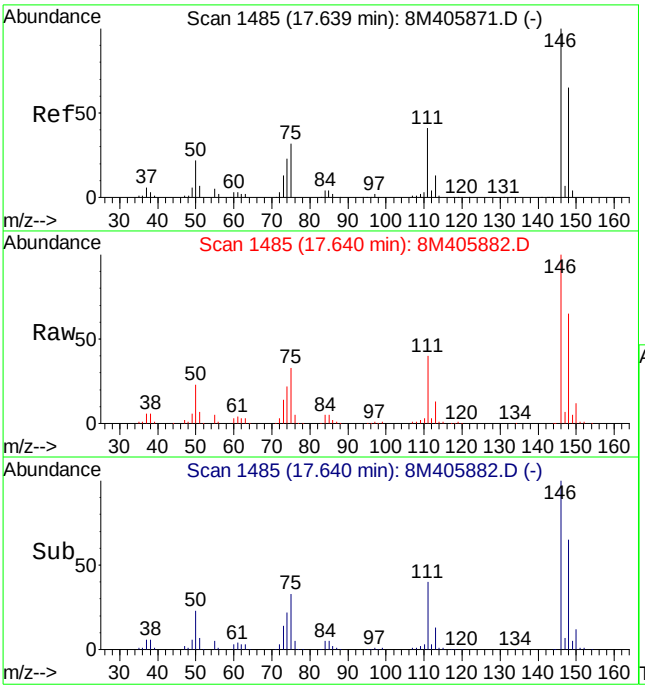


#93
1,3-Dichlorobenzene
Concen: 18.77 ug/L
RT: 17.52 min Scan# 1473
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:146 Resp: 294432

Ion	Ratio	Lower	Upper
146	100		
111	41.8	25.0	58.2

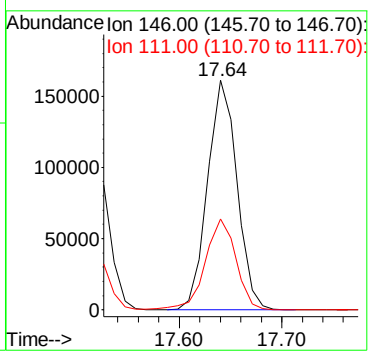


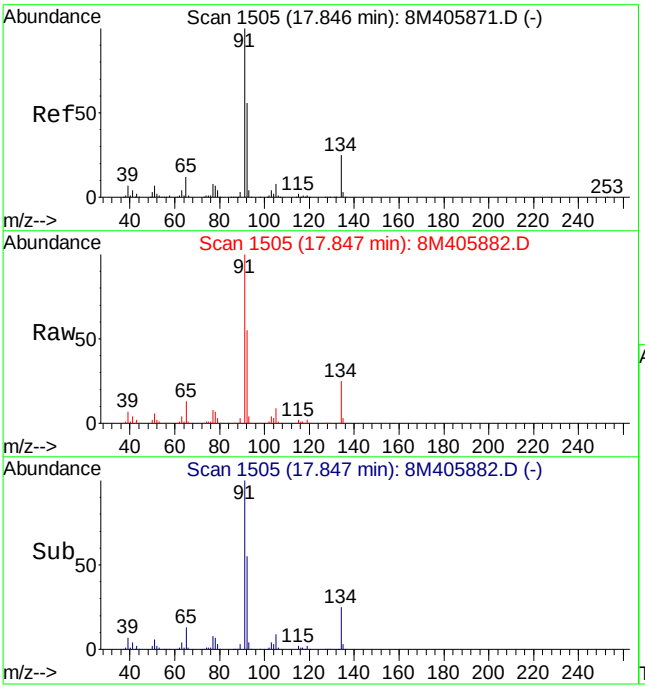


#94
1,4-Dichlorobenzene
Concen: 20.10 ug/L
RT: 17.64 min Scan# 1485
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:146 Resp: 321563

Ion	Ratio	Lower	Upper
146	100		
111	41.3	24.7	57.7

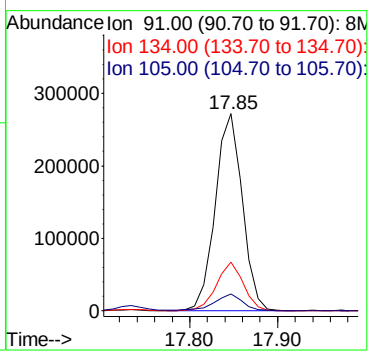


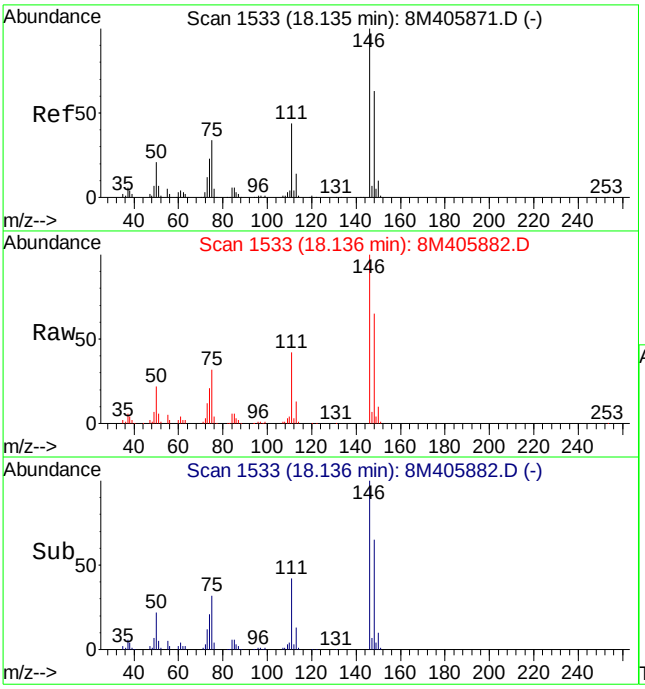


#95
n-Butylbenzene
Concen: 21.25 ug/L
RT: 17.85 min Scan# 1505
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 91 Resp: 581194

Ion	Ratio	Lower	Upper
91	100		
134	24.4	14.4	33.6
105	8.8	5.0	11.8

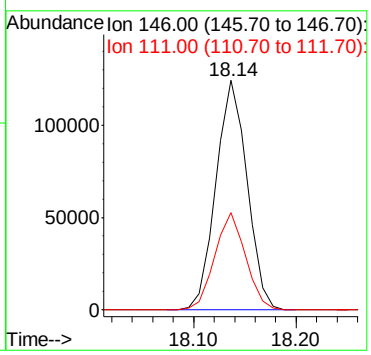


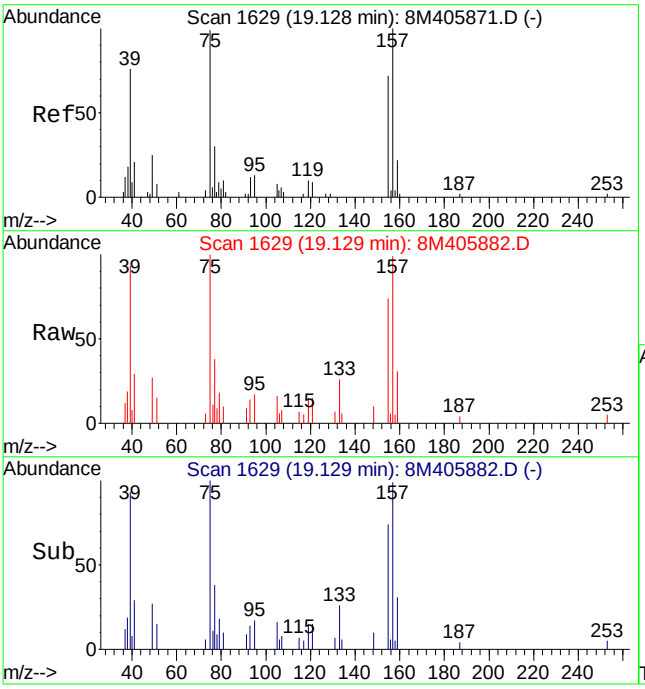


#96
1,2-Dichlorobenzene
Concen: 18.73 ug/L
RT: 18.14 min Scan# 1533
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:146 Resp: 262266

Ion	Ratio	Lower	Upper
146	100		
111	41.8	25.5	59.5

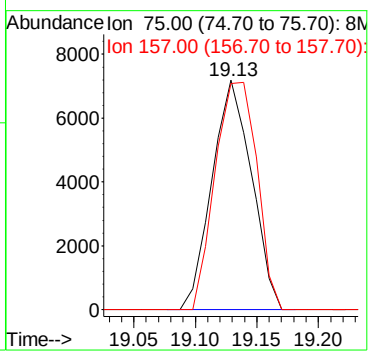


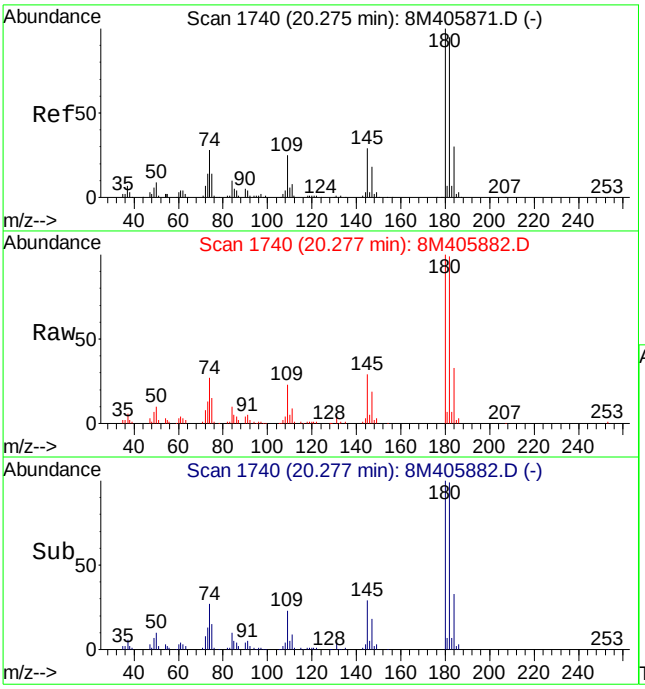


#97
1,2-Dibromo-3-Chloropropane
Concen: 18.98 ug/L
RT: 19.13 min Scan# 1629
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion: 75 Resp: 16091

Ion	Ratio	Lower	Upper
75	100		
157	104.8	61.0	142.4

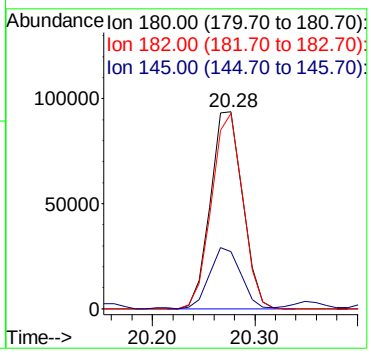


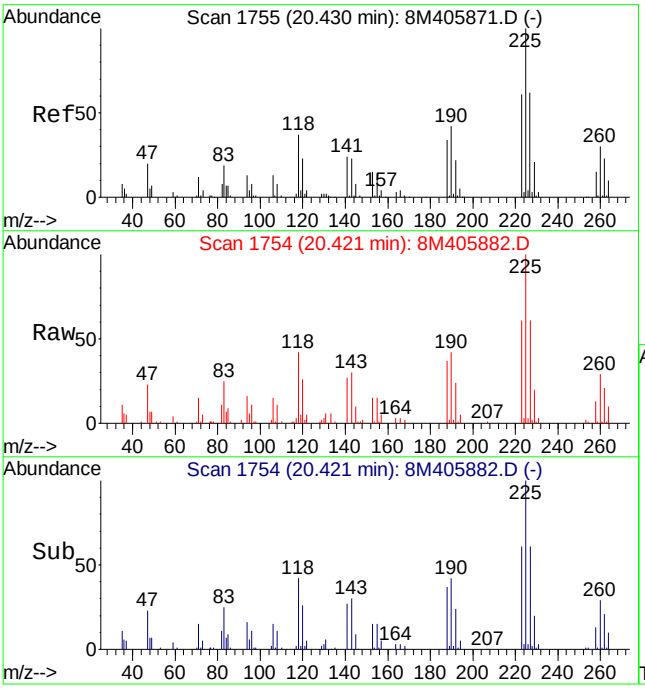


#98
1,2,4-Trichlorobenzene
Concen: 19.60 ug/L
RT: 20.28 min Scan# 1740
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:180 Resp: 205545

Ion	Ratio	Lower	Upper
180	100		
182	95.3	57.1	133.1
145	30.3	18.0	42.0

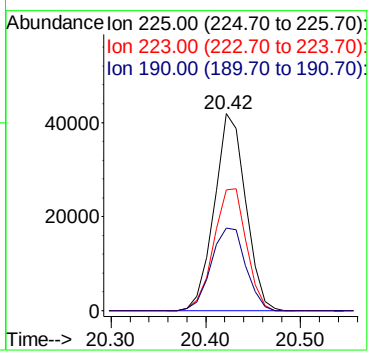


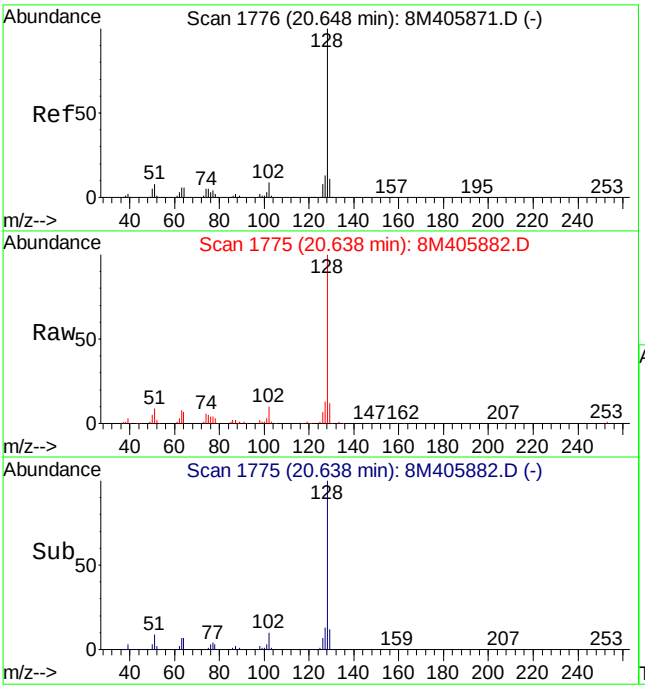


#99
Hexachlorobutadiene
Concen: 18.44 ug/L
RT: 20.42 min Scan# 1754
Delta R.T. -0.01 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:225 Resp: 96975

Ion	Ratio	Lower	Upper
225	100		
223	64.3	37.4	87.4
190	46.3	26.6	62.2

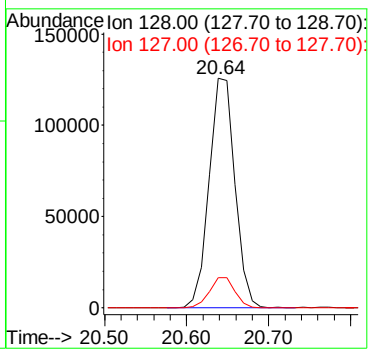


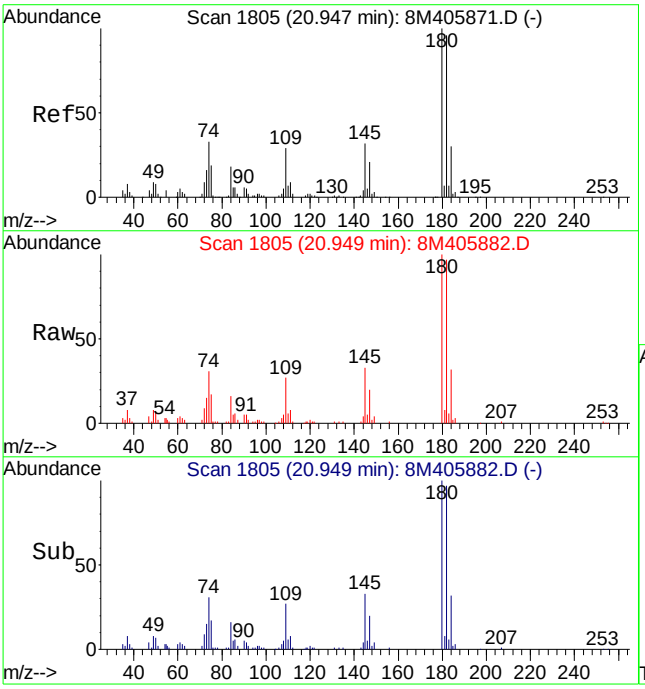


#100
Naphthalene
Concen: 19.91 ug/L
RT: 20.64 min Scan# 1775
Delta R.T. -0.01 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:128 Resp: 275370

Ion	Ratio	Lower	Upper
128	100		
127	13.0	8.0	18.6

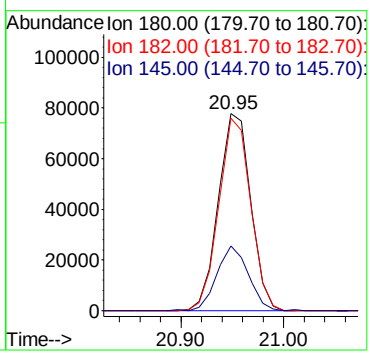




#101
1,2,3-Trichlorobenzene
Concen: 18.68 ug/L
RT: 20.95 min Scan# 1805
Delta R.T. 0.00 min
Lab File: 8M405882.D
Acq: 3 Jul 2015 16:37

Tgt Ion:180 Resp: 170420

Ion	Ratio	Lower	Upper
180	100		
182	95.9	58.3	135.9
145	31.9	18.2	42.4



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405883.D Vial: 7
Acq On : 3 Jul 2015 17:06 Operator: ADC/ JDS
Sample : L15061450-05 A MSD 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:10 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.71	96	740129	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	516344	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	277388	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.67	111	171968	25.0444 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.16%		
43) 1,2-Dichloroethane-d4	10.31	65	167644	24.9609 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 99.84%		
58) Toluene-d8	12.69	98	664278	26.0075 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.04%		
80) p-Bromofluorobenzene	16.08	95	255451	25.7766 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 103.12%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.16	85	195704	24.1088 ug/L	100
3) Chloromethane	3.62	50	294521	20.2619 ug/L	98
4) Vinyl Chloride	3.85	62	232145	20.7452 ug/L	99
5) 1,3-Butadiene	3.89	54	27034	3.0393 ug/L	88
6) Bromomethane	4.75	94	111896	22.4139 ug/L	100
7) Chloroethane	4.90	64	113464	23.5654 ug/L	97
8) Trichlorofluoromethane	5.39	101	225521	20.0251 ug/L	97
9) Diethyl ether	5.91	59	434455	98.6009 ug/L	100
10) Isoprene	5.94	67	193223	22.8946 ug/L	100
11) Acrolein	6.14	56	39424	128.3463 ug/L	92
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	129413	20.9326 ug/L	98
13) Acetone	6.25	43	21366	23.4976 ug/L	99
14) 1,1-Dichloroethene	6.47	61	211121	19.5309 ug/L	99
15) Tert-Butyl Alcohol	6.59	59	46025	206.3166 ug/L	97
16) Dimethyl Sulfide	6.74	62	165526	28.1009 ug/L	97
17) Iodomethane	6.99	142	122284	23.4351 ug/L	100
18) Methyl acetate	7.01	43	61316	16.9819 ug/L	98
19) Methylene Chloride	7.26	84	138199	20.2726 ug/L	98
20) Carbon Disulfide	7.30	76	381733	19.6409 ug/L	100
21) Acrylonitrile	7.44	53	28853	21.5958 ug/L	98
22) Methyl Tert Butyl Ether	7.47	73	262919	21.0525 ug/L	99
23) trans-1,2-Dichloroethene	7.71	61	223396	21.3752 ug/L	100
24) n-Hexane	7.80	57	191040	18.4774 ug/L	100
25) Diisopropyl ether	8.14	45	2592219	102.0531 ug/L	100
26) Vinyl Acetate	8.30	43	170025	30.4402 ug/L	99
27) 1,1-Dichloroethane	8.33	63	271466	20.0127 ug/L	99
28) Ethyl-Tert-Butyl ether	8.71	59	1895052	96.1631 ug/L	100
29) 2-Butanone	8.89	43	31717	20.6518 ug/L	96
30) Propionitrile	8.99	54	46956	103.1508 ug/L	99
31) 2,2-Dichloropropane	9.11	77	231756	21.3986 ug/L	99
32) cis-1,2-Dichloroethene	9.17	96	155494	21.5382 ug/L	99
33) Chloroform	9.38	83	254884	20.6562 ug/L	100
34) 1-Bromopropane	9.52	122	31309	26.3611 ug/L	97
35) Bromochloromethane	9.62	130	74920	21.0102 ug/L	98
36) Tetrahydrofuran	9.64	42	102452	99.8625 ug/L	96
38) 1,1,1-Trichloroethane	9.91	97	242496	20.7046 ug/L	98
39) Cyclohexane	9.95	56	254435	18.5731 ug/L	99
40) 1,1-Dichloropropene	10.11	75	202727	21.5968 ug/L	98
41) Tert-Amyl-Methyl ether	10.21	73	1462102	99.7880 ug/L	100
42) Carbon Tetrachloride	10.26	117	211816	19.9675 ug/L	98

(#) = qualifier out of range (m) = manual integration
8M405883.D 8260WT.M Mon Jul 06 10:26:10 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405883.D Vial: 7
Acq On : 3 Jul 2015 17:06 Operator: ADC/ JDS
Sample : L15061450-05 A MSD 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:10 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

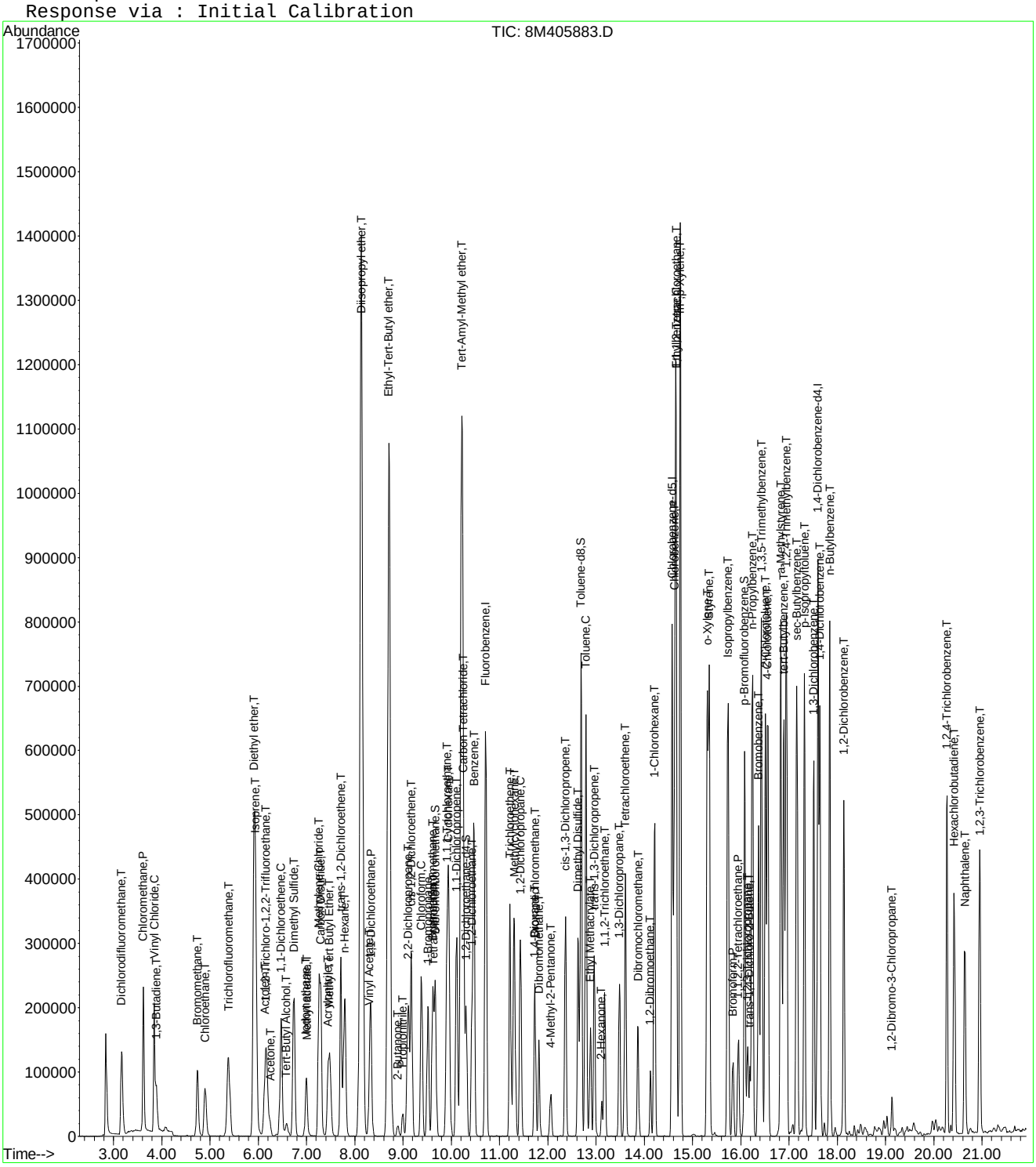
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	171308	20.4180	ug/L		98
46)	Benzene	10.47	78	564995	20.9936	ug/L		99
47)	Trichloroethene	11.22	130	144280	21.5489	ug/L		98
48)	Methylcyclohexane	11.31	83	213067	19.5216	ug/L		100
49)	1,2-Dichloropropane	11.43	63	153902	20.6145	ug/L		99
50)	Bromodichloromethane	11.73	83	189051	20.5086	ug/L		99
51)	1,4-Dioxane	11.72	88	4841	196.3364	ug/L		85
52)	Dibromomethane	11.82	93	69988	20.2824	ug/L		99
54)	4-Methyl-2-Pentanone	12.07	58	26723	19.2485	ug/L		98
55)	cis-1,3-Dichloropropene	12.37	75	221865	21.7020	ug/L		98
56)	Dimethyl Disulfide	12.62	79	116540	20.4753	ug/L		91
59)	Toluene	12.79	91	614870	21.6246	ug/L		100
60)	Ethyl Methacrylate	12.88	69	119047	22.7000	ug/L		97
62)	trans-1,3-Dichloropropene	12.97	75	177212	20.2043	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	89496	20.3645	ug/L		99
64)	2-Hexanone	13.11	58	24828	19.5542	ug/L	#	99
65)	1,3-Dichloropropane	13.48	76	163213	21.1965	ug/L		96
66)	Tetrachloroethene	13.61	164	120181	20.6887	ug/L		98
67)	Dibromochloromethane	13.87	129	118864	18.6558	ug/L		99
68)	1,2-Dibromoethane	14.12	107	84002	19.8608	ug/L		100
69)	1-Chlorohexane	14.22	91	203976	20.5610	ug/L		99
70)	Chlorobenzene	14.63	112	364713	19.1297	ug/L		99
71)	1,1,1,2-Tetrachloroethane	14.66	131	138938	20.0396	ug/L		99
72)	Ethylbenzene	14.66	106	216887	20.2212	ug/L		98
73)	m-,p-Xylene	14.74	106	513094	40.6189	ug/L		97
74)	o-Xylene	15.31	106	238940	19.5008	ug/L		97
75)	Styrene	15.34	104	423613	21.5103	ug/L		99
76)	Bromoform	15.84	173	71267	18.6858	ug/L		97
77)	Isopropylbenzene	15.74	105	618833	20.1332	ug/L		99
79)	1,1,2,2-Tetrachloroethane	15.94	83	98692	21.0837	ug/L		98
81)	1,2,3-Trichloropropane	16.14	110	26133	19.4434	ug/L		54
82)	trans-1,4-Dichloro-2-Buten	16.18	53	32459	19.4487	ug/L	#	67
83)	n-Propylbenzene	16.24	91	794611	21.0767	ug/L		99
84)	Bromobenzene	16.37	156	154899	20.1363	ug/L		98
85)	1,3,5-Trimethylbenzene	16.43	105	604738	22.9995	ug/L		98
86)	2-Chlorotoluene	16.51	91	491583	20.6484	ug/L		99
87)	4-Chlorotoluene	16.55	91	475957	19.7374	ug/L		99
88)	a-Methylstyrene	16.83	118	312209	22.3815	ug/L		99
89)	tert-Butylbenzene	16.89	134	108183	20.1891	ug/L		96
90)	1,2,4-Trimethylbenzene	16.95	105	602722	22.4880	ug/L		98
91)	sec-Butylbenzene	17.16	105	674292	21.5207	ug/L		100
92)	p-Isopropyltoluene	17.32	119	566418	20.8026	ug/L		99
93)	1,3-Dichlorobenzene	17.51	146	300667	19.6356	ug/L		98
94)	1,4-Dichlorobenzene	17.64	146	322644	20.6520	ug/L		100
95)	n-Butylbenzene	17.85	91	593901	22.2430	ug/L		98
96)	1,2-Dichlorobenzene	18.13	146	264693	19.3591	ug/L		98
97)	1,2-Dibromo-3-Chloropropan	19.13	75	17038	20.5844	ug/L		98
98)	1,2,4-Trichlorobenzene	20.27	180	210102	20.5156	ug/L		99
99)	Hexachlorobutadiene	20.42	225	99136	19.3053	ug/L		98
100)	Naphthalene	20.65	128	281745	20.8690	ug/L		98
101)	1,2,3-Trichlorobenzene	20.96	180	170979	19.1996	ug/L		99

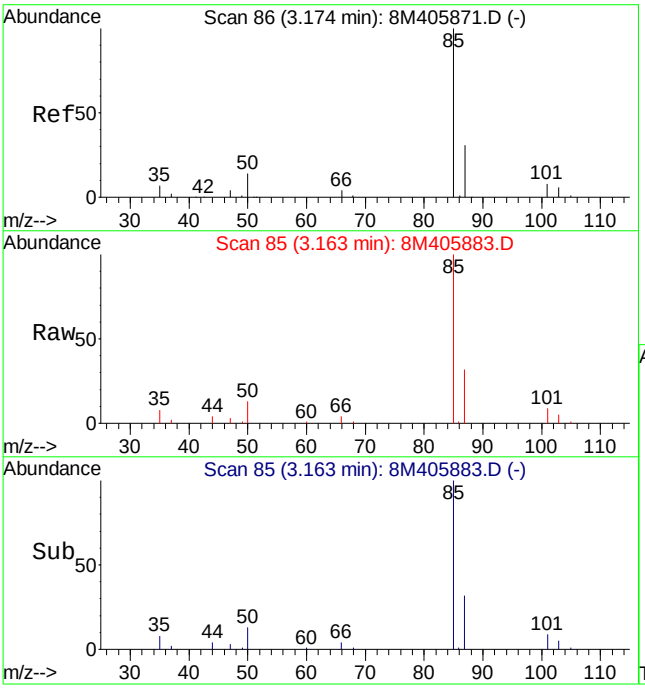
(#) = qualifier out of range (m) = manual integration
8M405883.D 8260WT.M Mon Jul 06 10:26:11 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405883.D Vial: 7
Acq On : 3 Jul 2015 17:06 Operator: ADC/ JDS
Sample : L15061450-05 A MSD 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

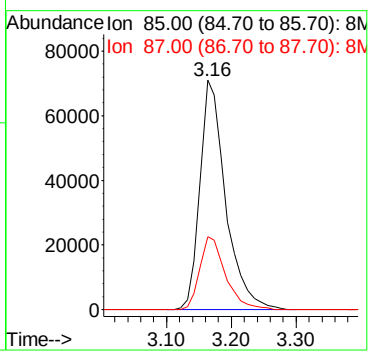


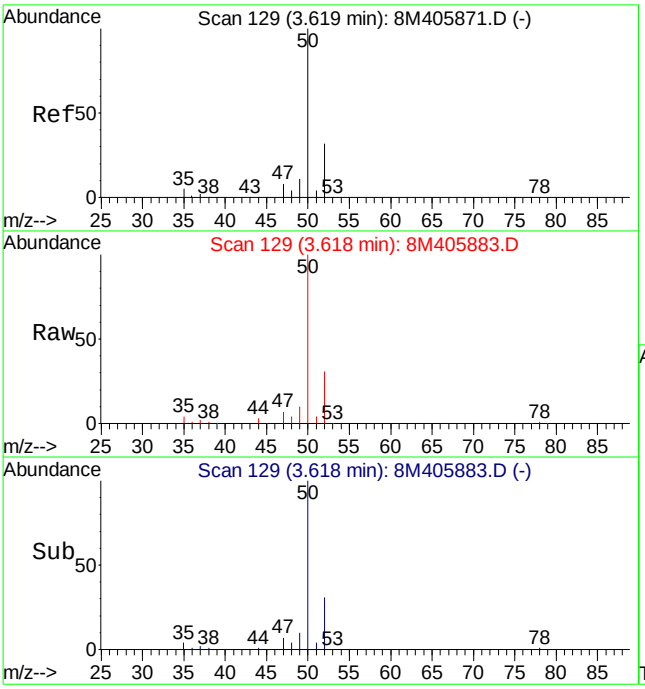


#2
Dichlorodifluoromethane
Concen: 24.11 ug/L
RT: 3.16 min Scan# 85
Delta R.T. -0.01 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 85 Resp: 195704

Ion	Ratio	Lower	Upper
85	100		
87	31.8	19.2	44.8

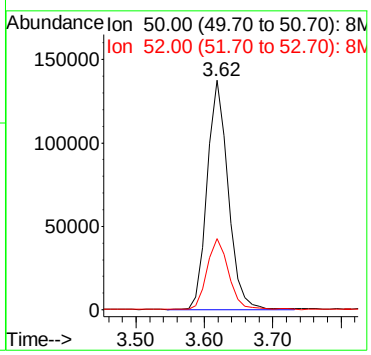


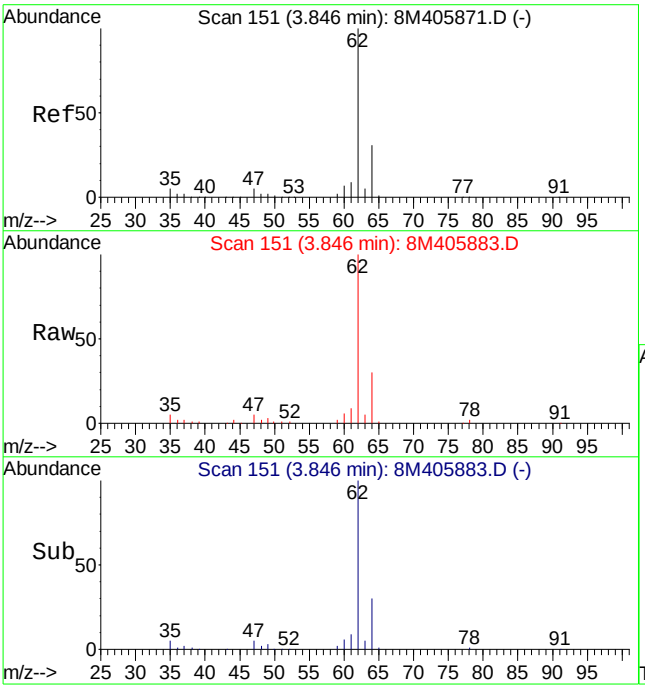


#3
Chloromethane
Concen: 20.26 ug/L
RT: 3.62 min Scan# 129
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 50 Resp: 294521

Ion	Ratio	Lower	Upper
50	100		
52	31.1	19.2	44.8

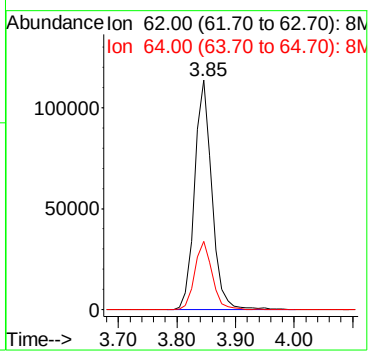


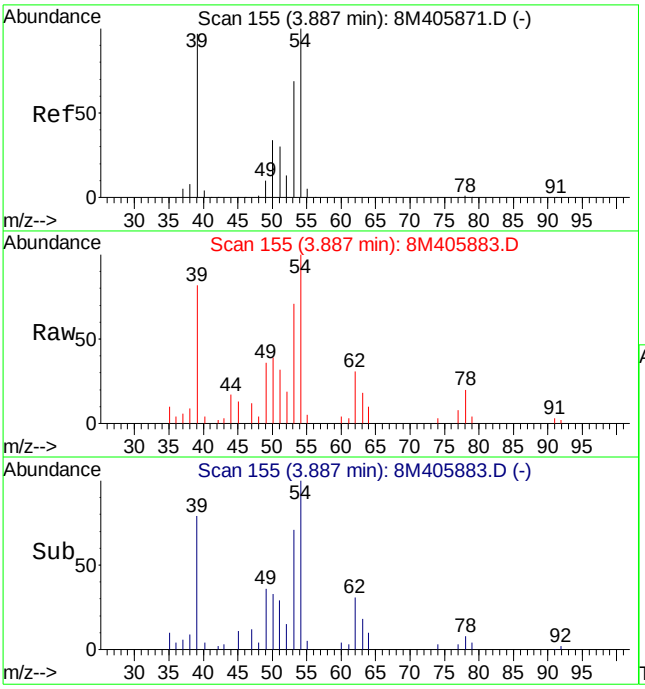


#4
Vinyl Chloride
Concen: 20.75 ug/L
RT: 3.85 min Scan# 151
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 62 Resp: 232145

Ion	Ratio	Lower	Upper
62	100		
64	29.9	18.2	42.6

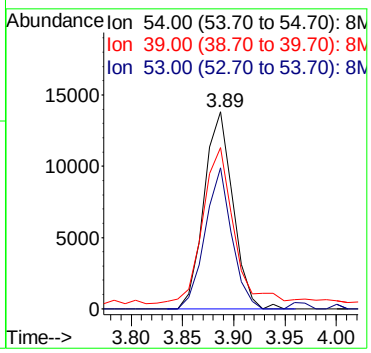


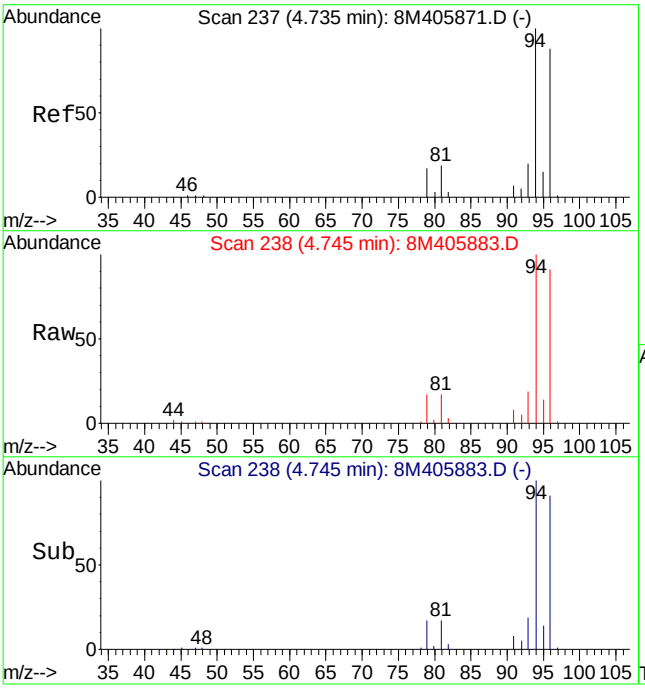


#5
1,3-Butadiene
Concen: 3.04 ug/L
RT: 3.89 min Scan# 155
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 54 Resp: 27034

Ion	Ratio	Lower	Upper
54	100		
39	84.9	60.8	142.0
53	66.1	42.4	99.0

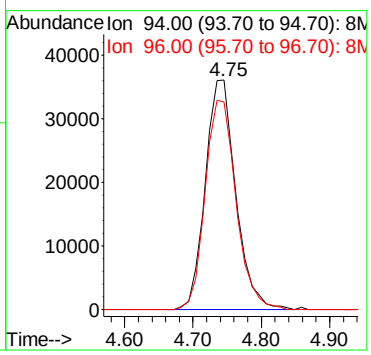


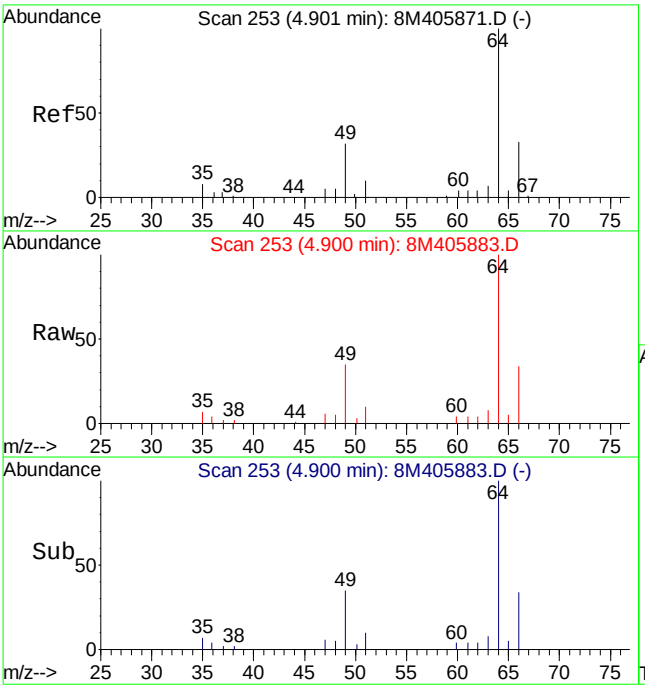


#6
Bromomethane
Concen: 22.41 ug/L
RT: 4.75 min Scan# 238
Delta R.T. 0.01 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 94 Resp: 111896

Ion	Ratio	Lower	Upper
94	100		
96	92.4	55.6	129.8

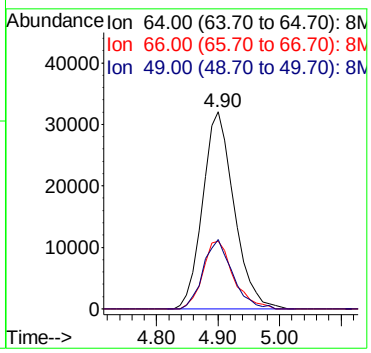


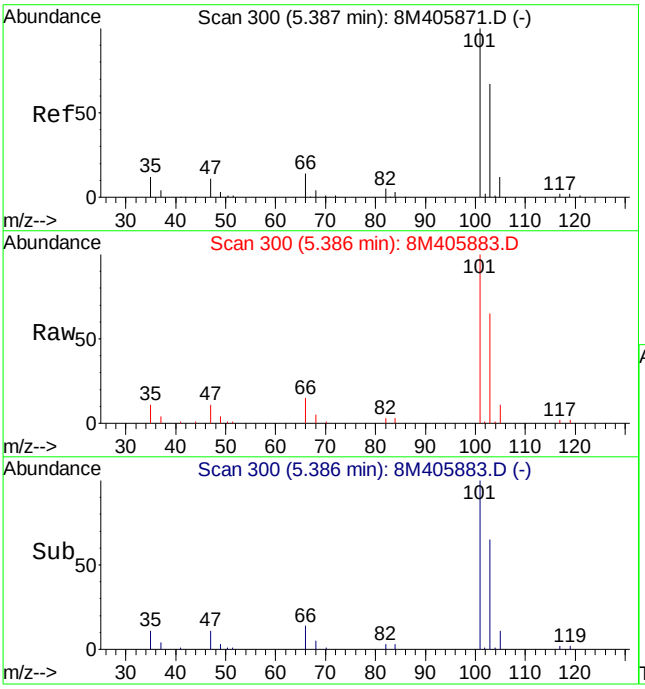


#7
Chloroethane
Concen: 23.57 ug/L
RT: 4.90 min Scan# 253
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 64 Resp: 113464

Ion	Ratio	Lower	Upper
64	100		
66	33.2	19.0	44.4
49	32.6	18.5	43.1

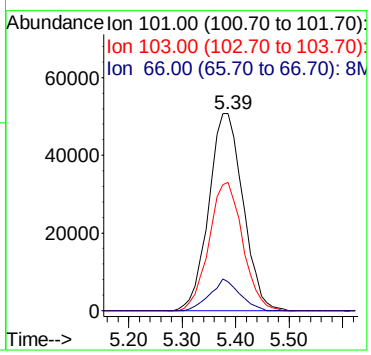


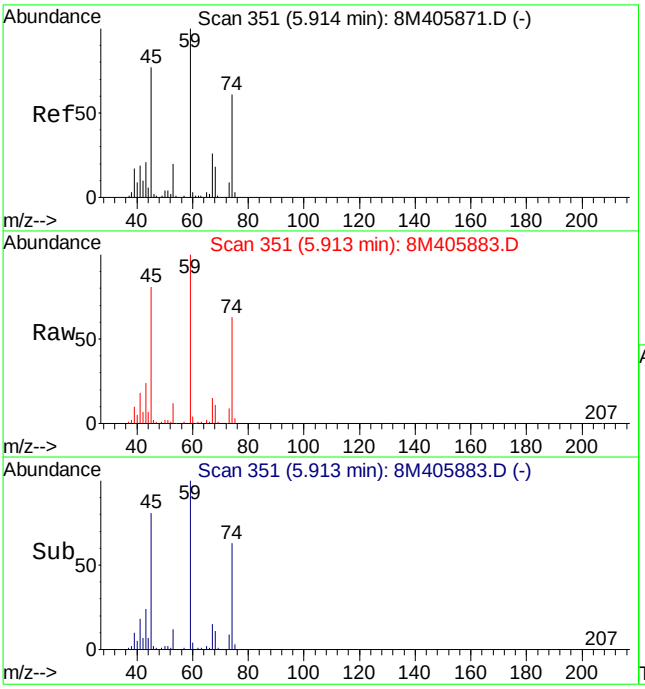


#8
Trichlorofluoromethane
Concen: 20.03 ug/L
RT: 5.39 min Scan# 300
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:101 Resp: 225521

Ion	Ratio	Lower	Upper
101	100		
103	63.8	39.7	92.7
66	13.7	8.5	19.9

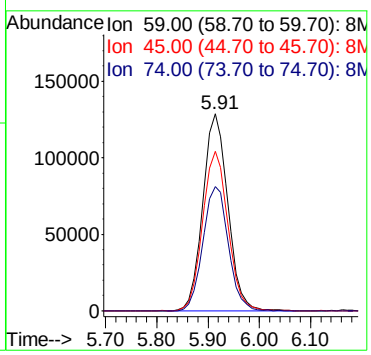


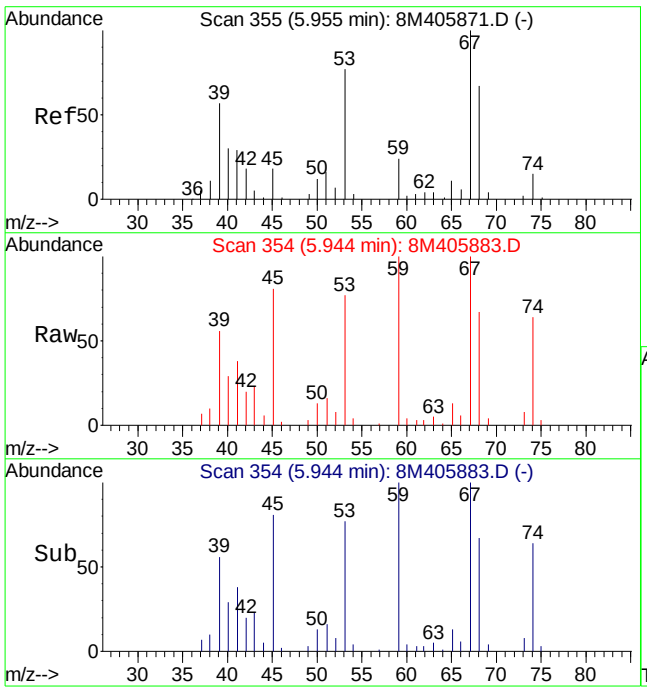


#9
Diethyl ether
Concen: 98.60 ug/L
RT: 5.91 min Scan# 351
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 59 Resp: 434455

Ion	Ratio	Lower	Upper
59	100		
45	82.2	49.3	115.1
74	64.1	38.6	90.2

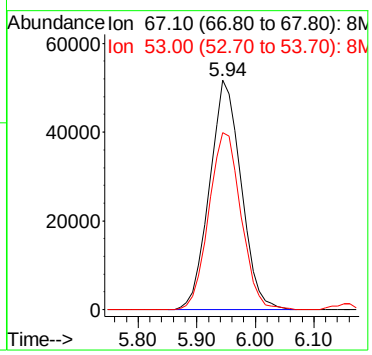


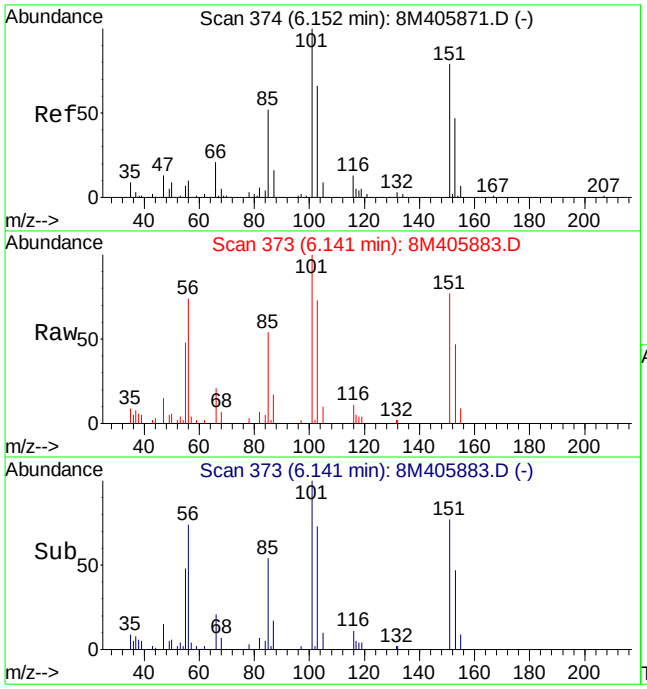


#10
Isoprene
Concen: 22.89 ug/L
RT: 5.94 min Scan# 354
Delta R.T. -0.01 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 67 Resp: 193223

Ion	Ratio	Lower	Upper
67	100		
53	78.5	46.9	109.5

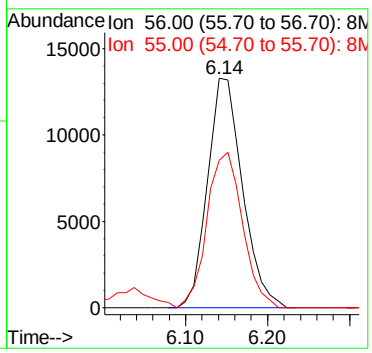


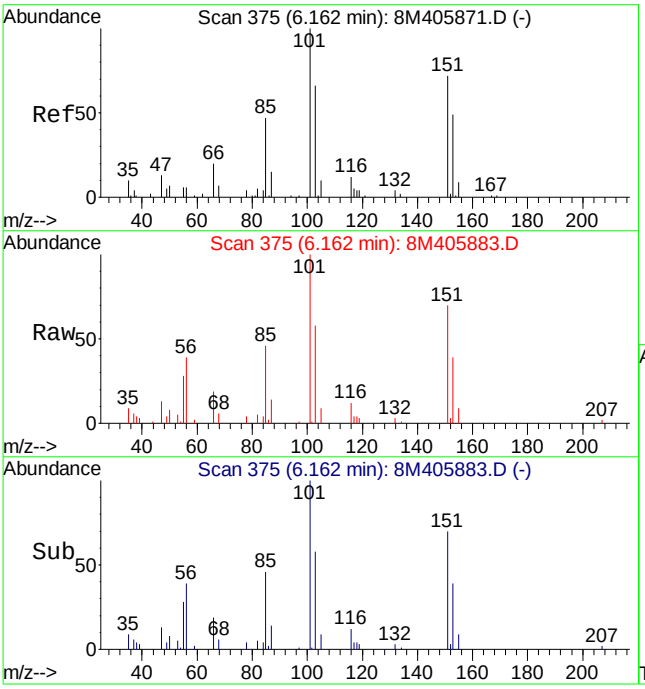


#11
Acrolein
Concen: 128.35 ug/L
RT: 6.14 min Scan# 373
Delta R.T. -0.01 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 56 Resp: 39424

Ion	Ratio	Lower	Upper
56	100		
55	68.6	45.2	105.6

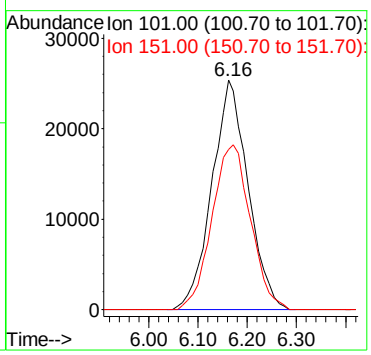


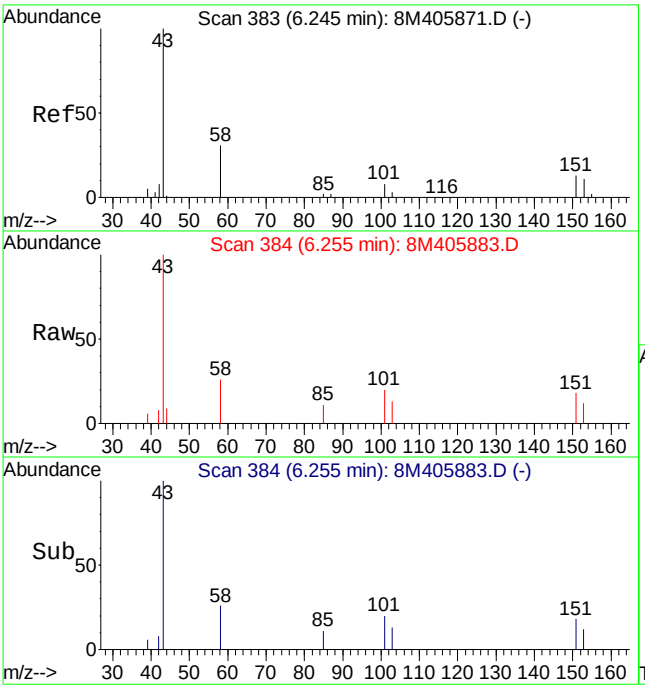


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 20.93 ug/L
RT: 6.16 min Scan# 375
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:101 Resp: 129413

Ion	Ratio	Lower	Upper
101	100		
151	76.6	38.1	118.1

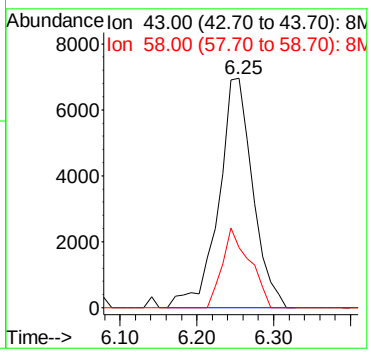


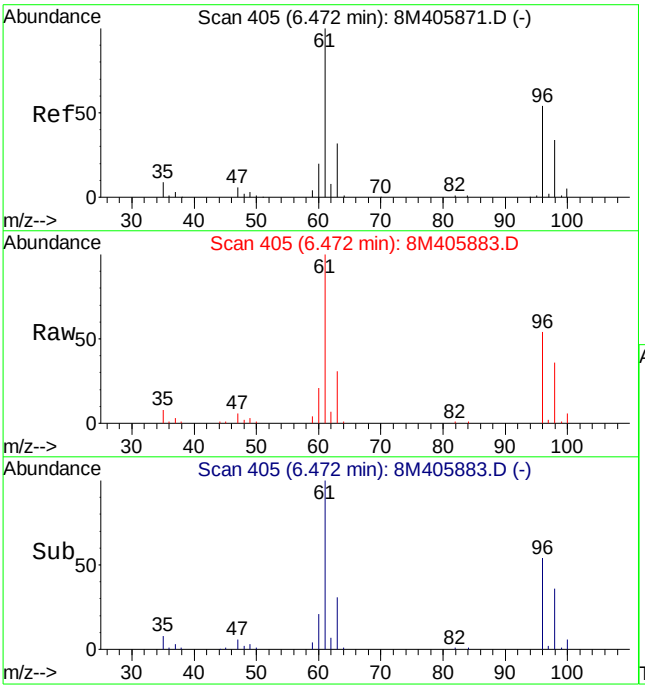


#13
Acetone
Concen: 23.50 ug/L
RT: 6.25 min Scan# 384
Delta R.T. 0.01 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 43 Resp: 21366

Ion	Ratio	Lower	Upper
43	100		
58	28.0	16.4	38.2

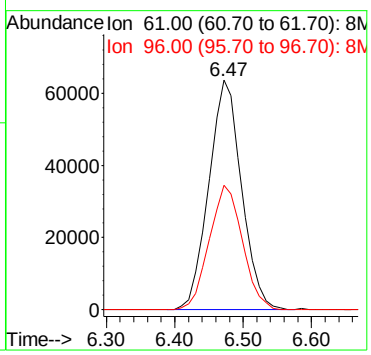


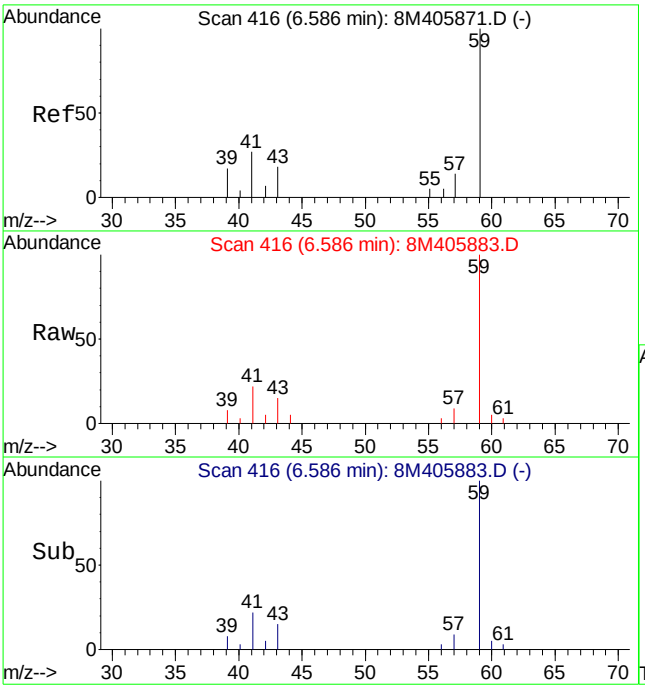


#14
1,1-Dichloroethene
Concen: 19.53 ug/L
RT: 6.47 min Scan# 405
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 61 Resp: 211121

Ion	Ratio	Lower	Upper
61	100		
96	54.9	32.3	75.3

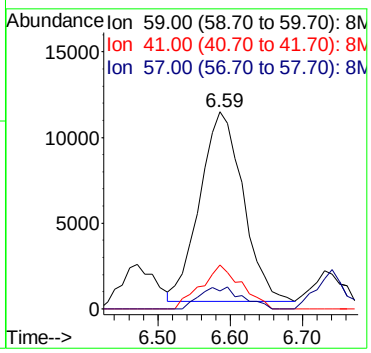


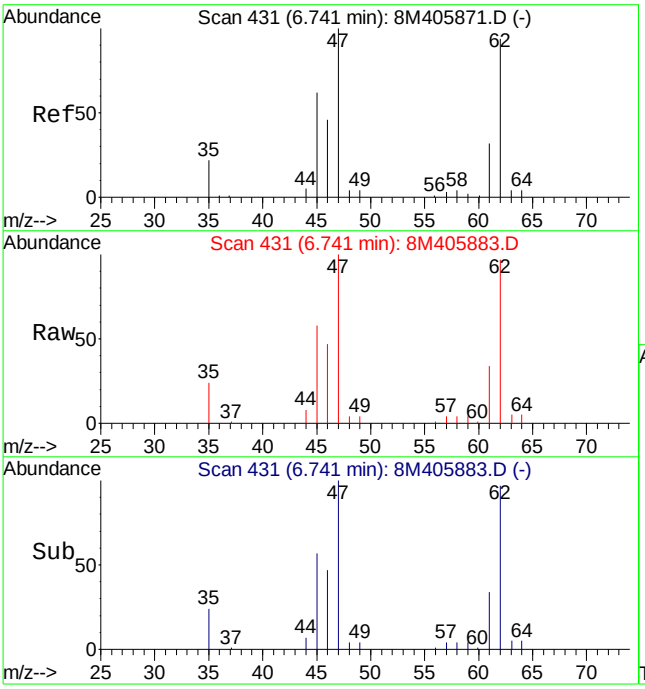


#15
Tert-Butyl Alcohol
Concen: 206.32 ug/L
RT: 6.59 min Scan# 416
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 59 Resp: 46025

Ion	Ratio	Lower	Upper
59	100		
41	21.4	14.2	33.0
57	11.1	6.5	15.3

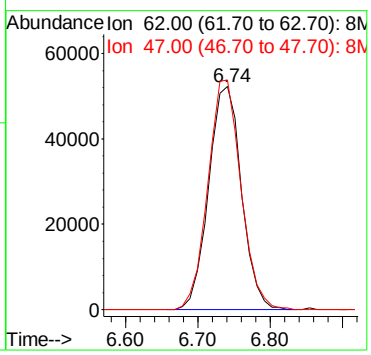


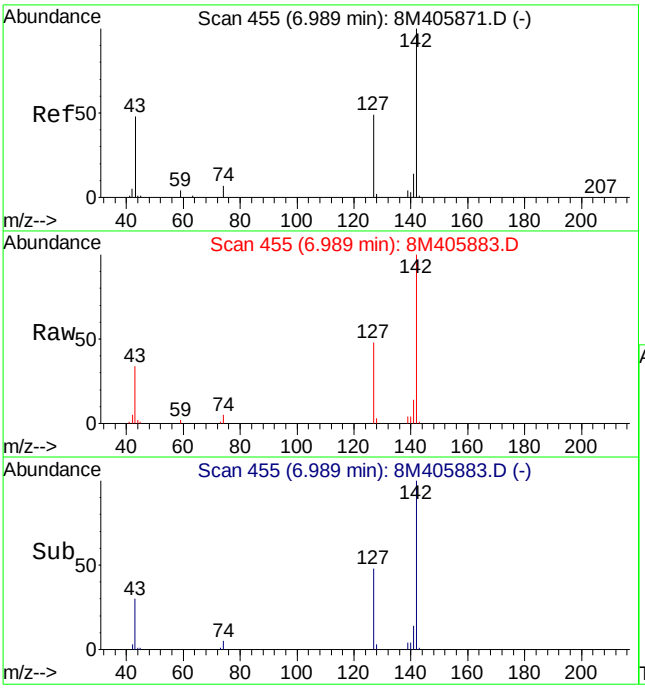


#16
Dimethyl Sulfide
Concen: 28.10 ug/L
RT: 6.74 min Scan# 431
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 62 Resp: 165526

Ion	Ratio	Lower	Upper
62	100		
47	103.6	64.3	149.9

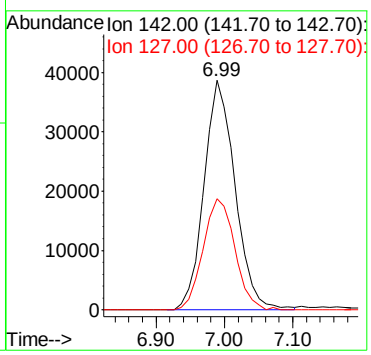


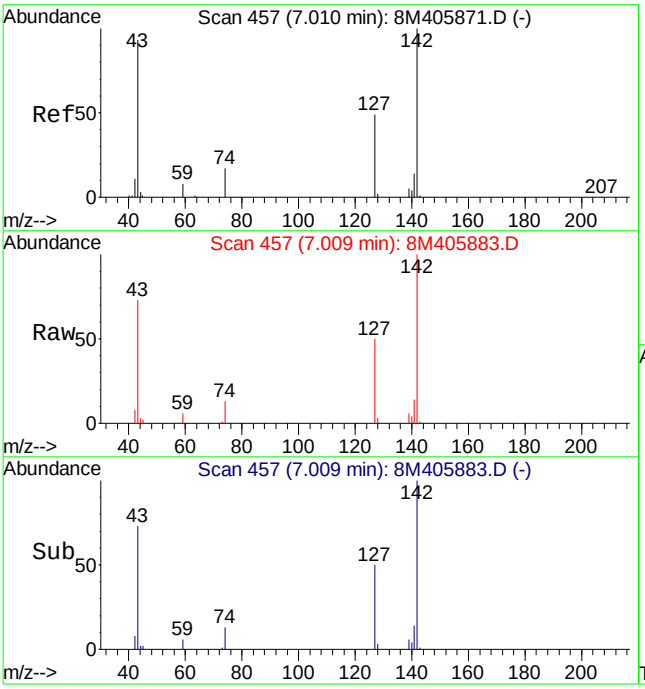


#17
Iodomethane
Concen: 23.44 ug/L
RT: 6.99 min Scan# 455
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:142 Resp: 122284

Ion	Ratio	Lower	Upper
142	100		
127	49.2	29.6	69.0

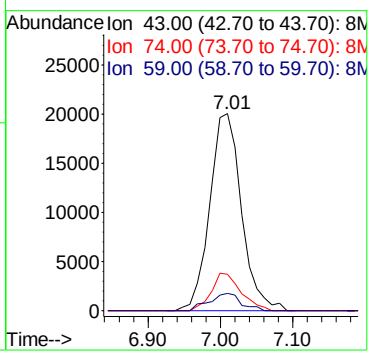


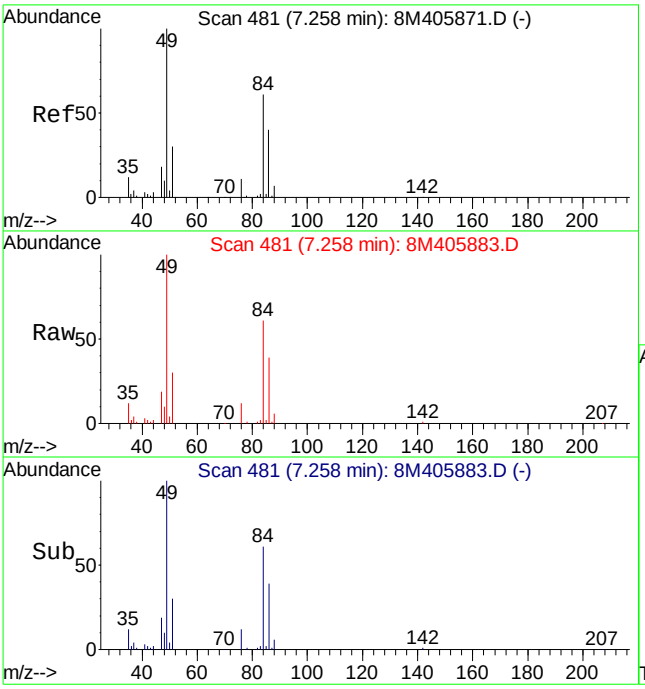


#18
Methyl acetate
Concen: 16.98 ug/L
RT: 7.01 min Scan# 457
Delta R.T. 0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 43 Resp: 61316

Ion	Ratio	Lower	Upper
43	100		
74	17.8	11.2	26.2
59	8.7	4.7	11.1

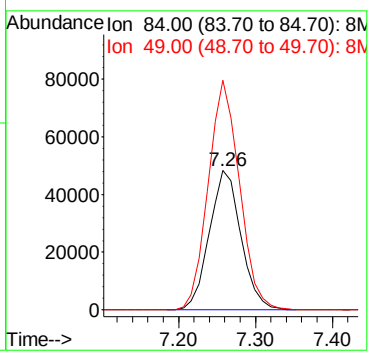


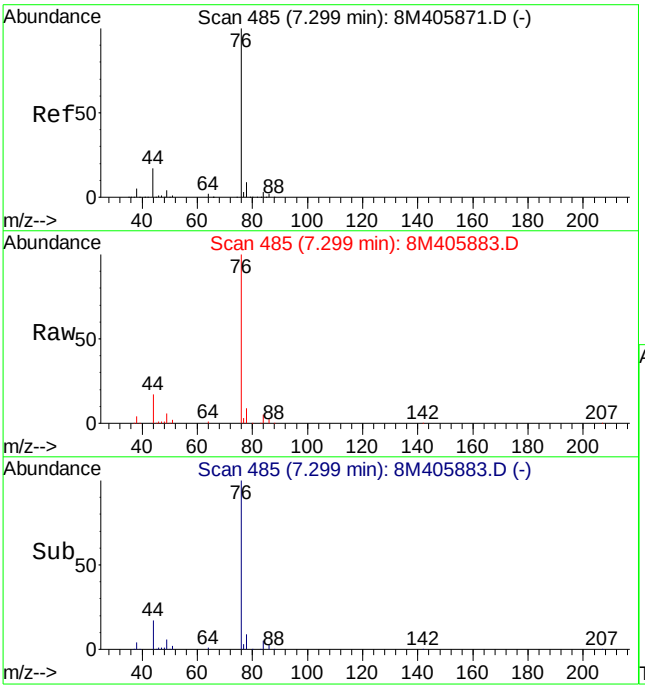


#19
Methylene Chloride
Concen: 20.27 ug/L
RT: 7.26 min Scan# 481
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 84 Resp: 138199

Ion	Ratio	Lower	Upper
84	100		
49	162.3	98.6	230.2

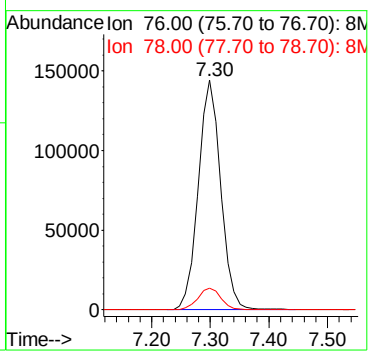


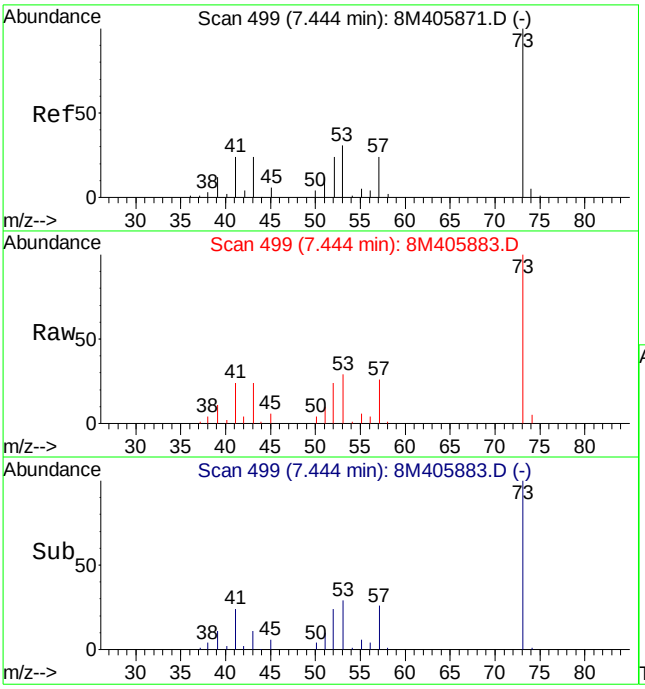


#20
Carbon Disulfide
Concen: 19.64 ug/L
RT: 7.30 min Scan# 485
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 76 Resp: 381733

Ion	Ratio	Lower	Upper
76	100		
78	9.6	5.7	13.3

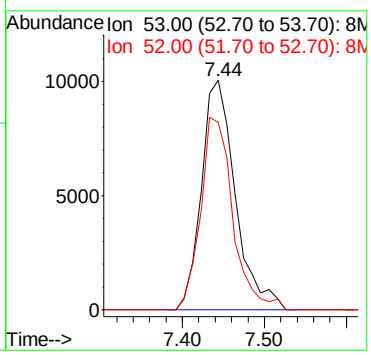


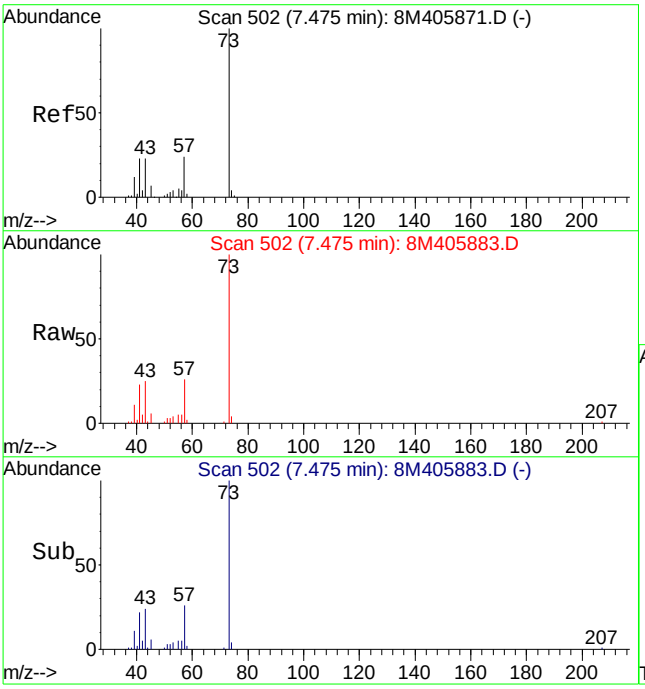


#21
Acrylonitrile
Concen: 21.60 ug/L
RT: 7.44 min Scan# 499
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 53 Resp: 28853

Ion	Ratio	Lower	Upper
53	100		
52	79.7	46.6	108.6

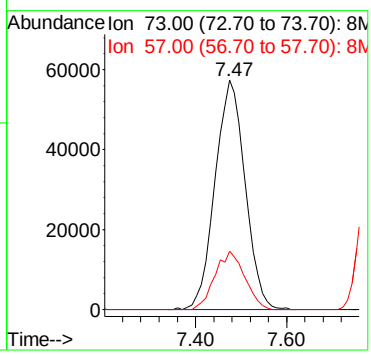


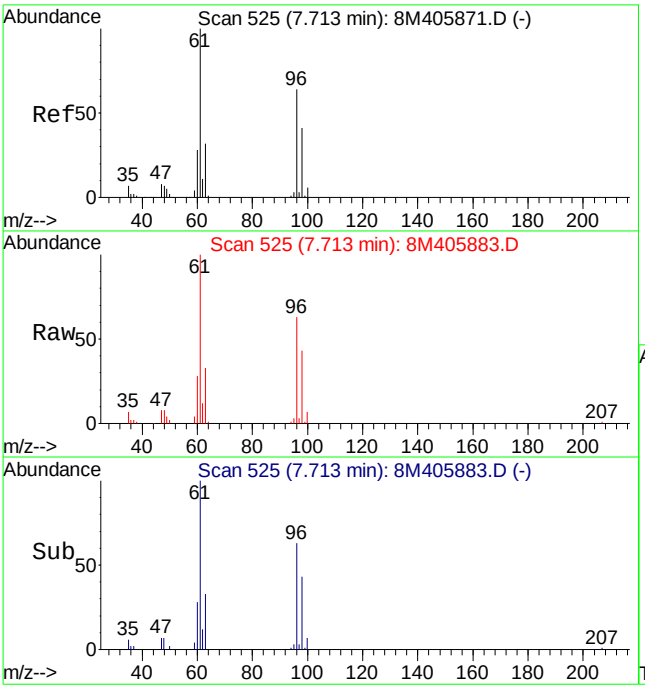


#22
Methyl Tert Butyl Ether
Concen: 21.05 ug/L
RT: 7.47 min Scan# 502
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 73 Resp: 262919

Ion	Ratio	Lower	Upper
73	100		
57	25.2	15.3	35.7

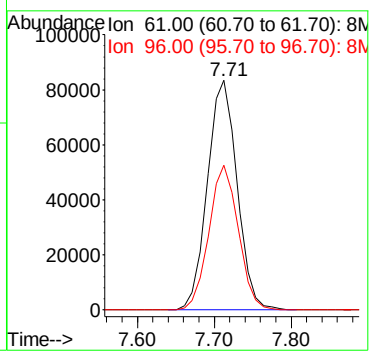


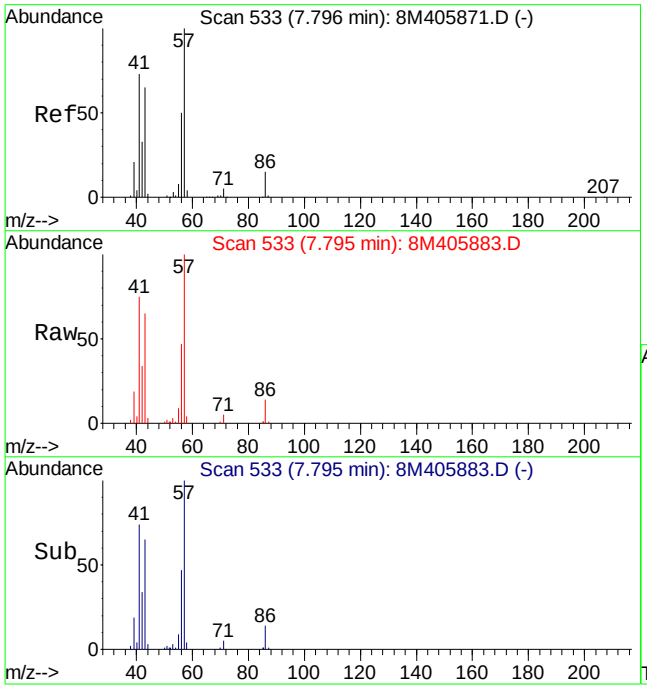


#23
trans-1,2-Dichloroethene
Concen: 21.38 ug/L
RT: 7.71 min Scan# 525
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 61 Resp: 223396

Ion	Ratio	Lower	Upper
61	100		
96	62.3	37.4	87.4

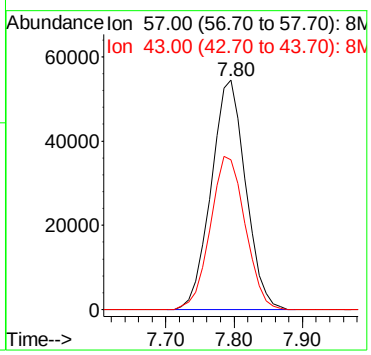


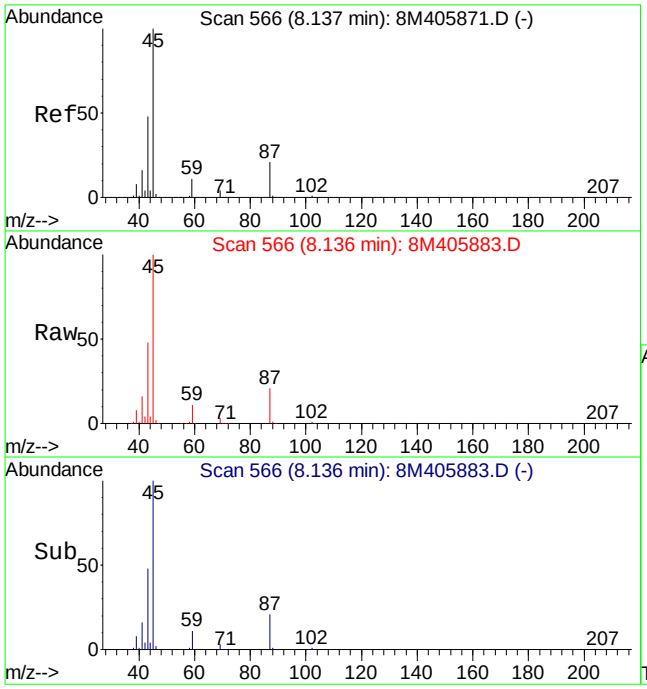


#24
n-Hexane
Concen: 18.48 ug/L
RT: 7.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 57 Resp: 191040

Ion	Ratio	Lower	Upper
57	100		
43	67.6	40.6	94.6

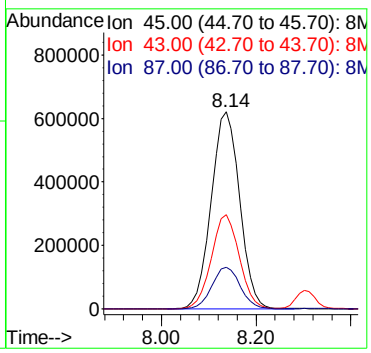


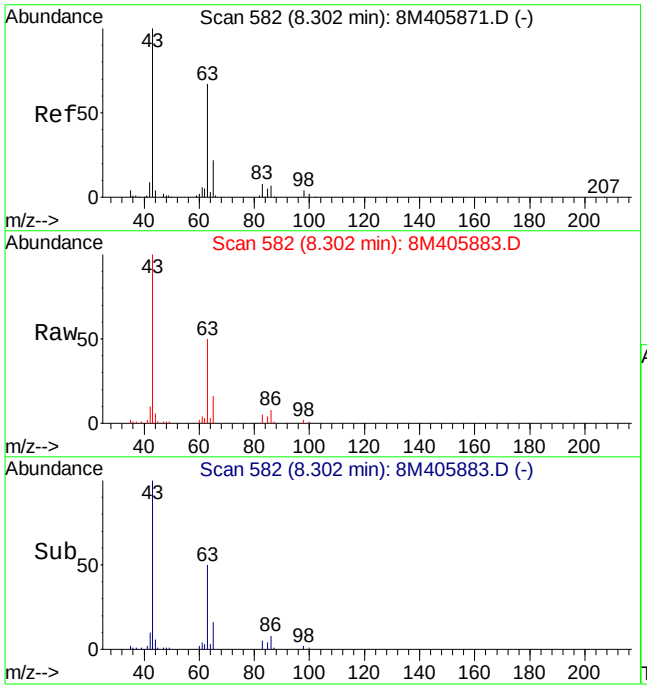


#25
Diisopropyl ether
Concen: 102.05 ug/L
RT: 8.14 min Scan# 566
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 45 Resp: 2592219

Ion	Ratio	Lower	Upper
45	100		
43	46.9	28.3	66.1
87	20.9	12.6	29.4

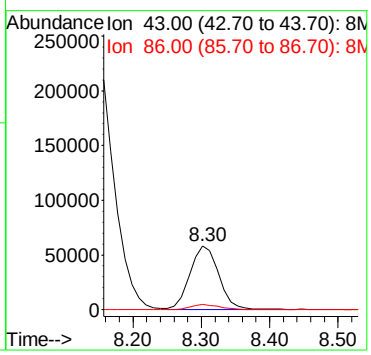


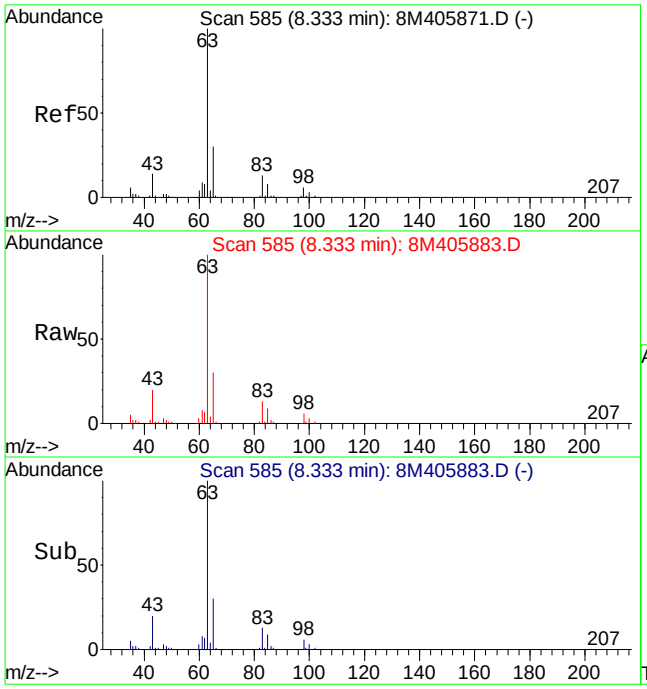


#26
Vinyl Acetate
Concen: 30.44 ug/L
RT: 8.30 min Scan# 582
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 43 Resp: 170025

Ion	Ratio	Lower	Upper
43	100		
86	7.9	4.9	11.3

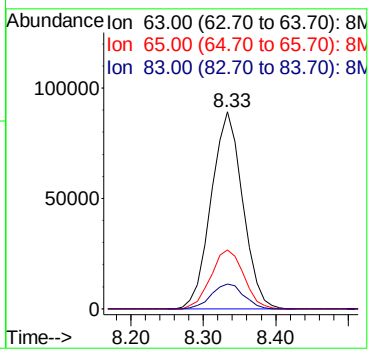


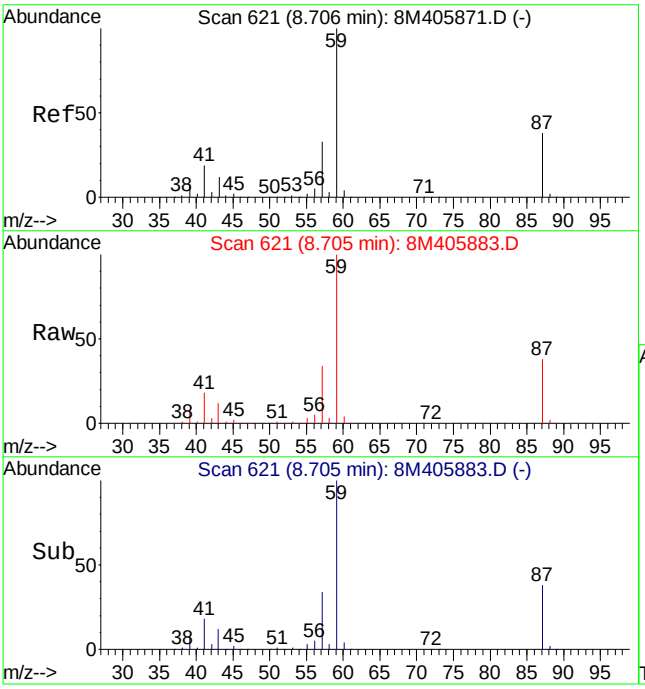


#27
1,1-Dichloroethane
Concen: 20.01 ug/L
RT: 8.33 min Scan# 585
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 63 Resp: 271466

Ion	Ratio	Lower	Upper
63	100		
65	31.3	18.4	43.0
83	13.0	7.7	18.1

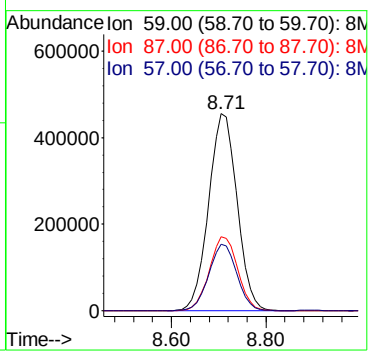


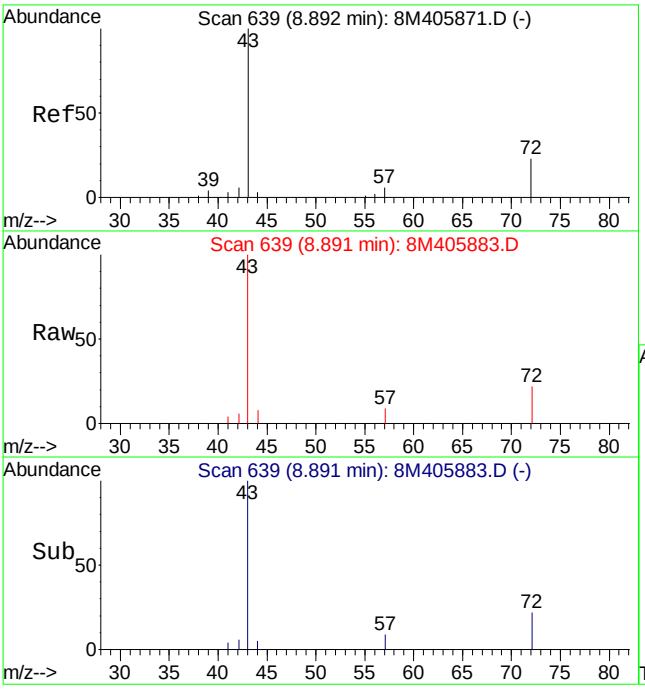


#28
Ethyl-Tert-Butyl ether
Concen: 96.16 ug/L
RT: 8.71 min Scan# 621
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 59 Resp: 1895052

Ion	Ratio	Lower	Upper
59	100		
87	37.3	22.5	52.5
57	33.2	20.0	46.6

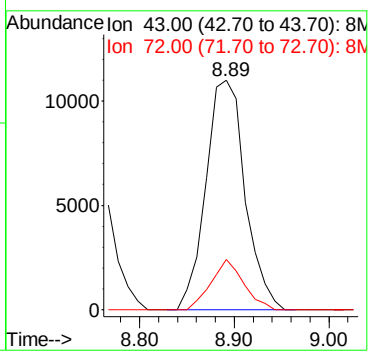


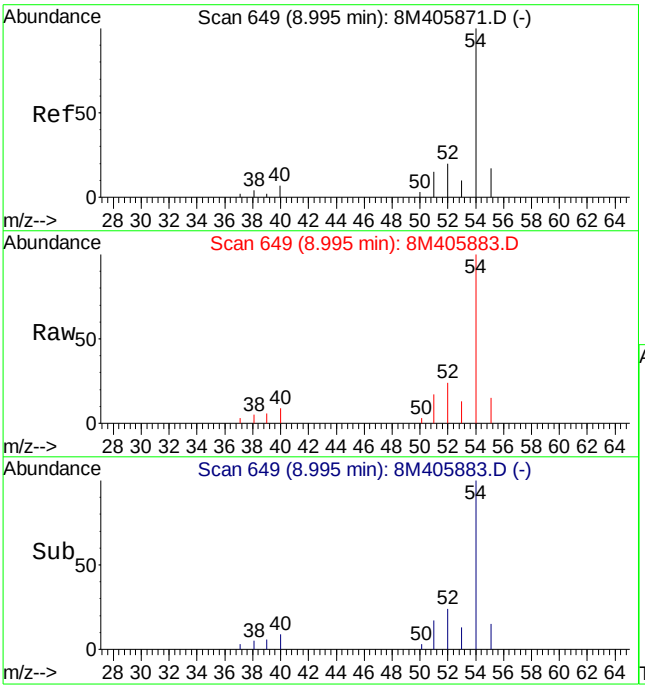


#29
2-Butanone
Concen: 20.65 ug/L
RT: 8.89 min Scan# 639
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 43 Resp: 31717

Ion	Ratio	Lower	Upper
43	100		
72	18.2	11.9	27.9

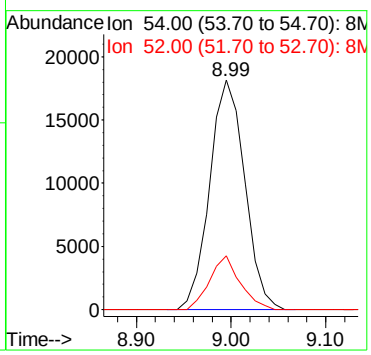


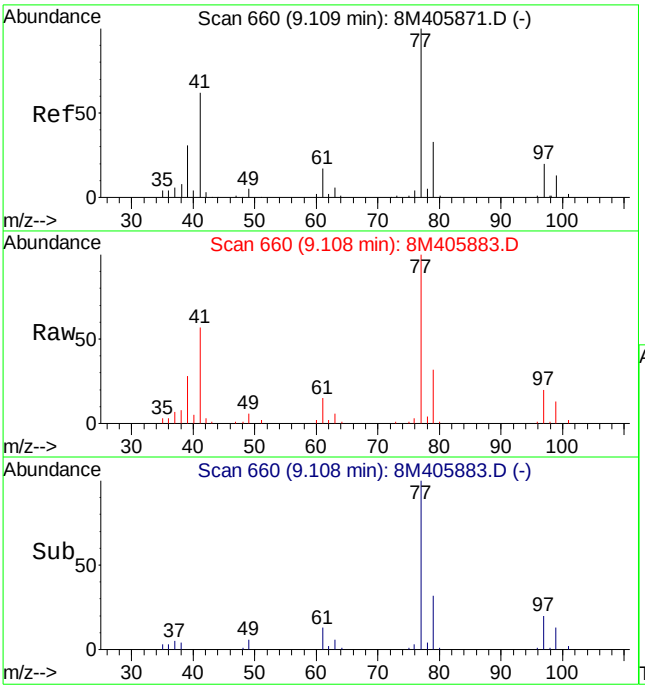


#30
Propionitrile
Concen: 103.15 ug/L
RT: 8.99 min Scan# 649
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 54 Resp: 46956

Ion	Ratio	Lower	Upper
54	100		
52	20.4	12.4	28.8

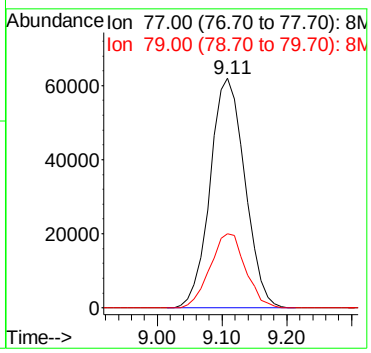


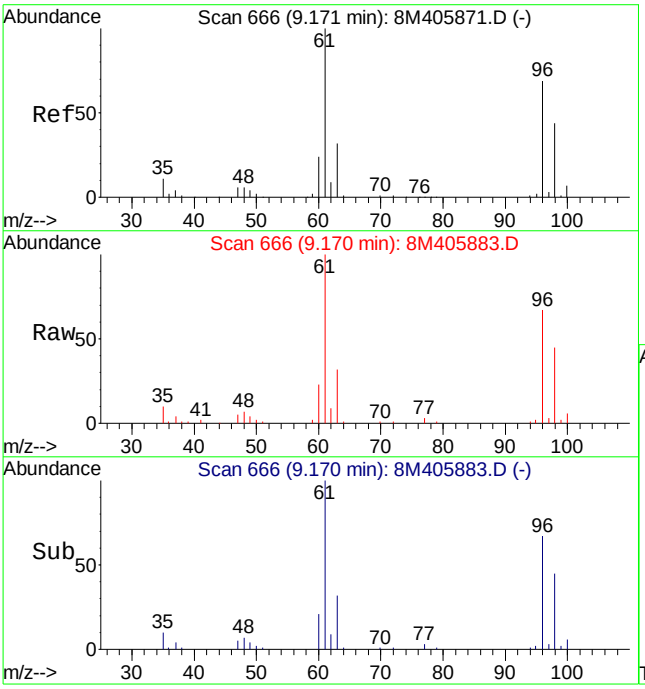


#31
2,2-Dichloropropane
Concen: 21.40 ug/L
RT: 9.11 min Scan# 660
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 77 Resp: 231756

Ion	Ratio	Lower	Upper
77	100		
79	32.7	19.4	45.4

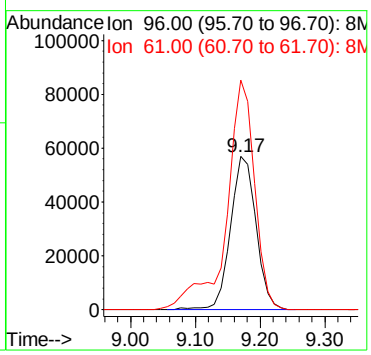


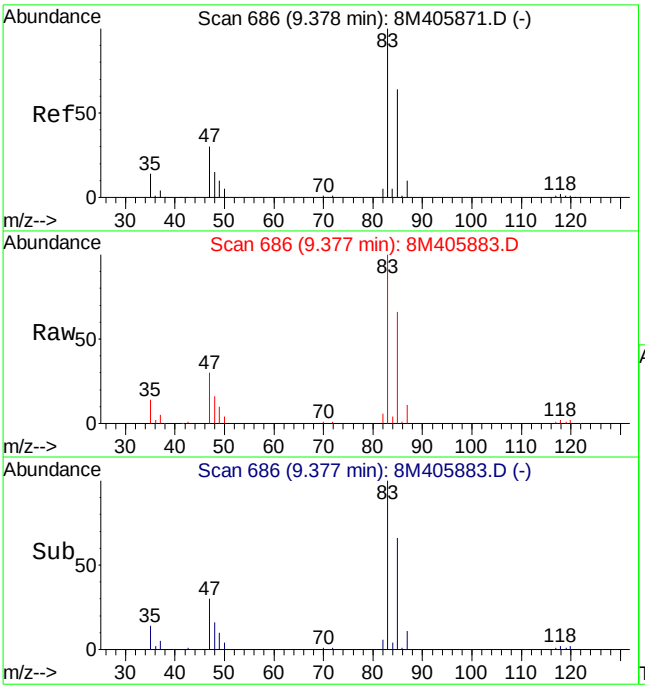


#32
cis-1,2-Dichloroethene
Concen: 21.54 ug/L
RT: 9.17 min Scan# 666
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 96 Resp: 155494

Ion	Ratio	Lower	Upper
96	100		
61	165.1	99.8	233.0

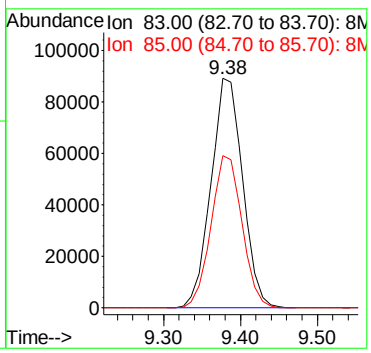


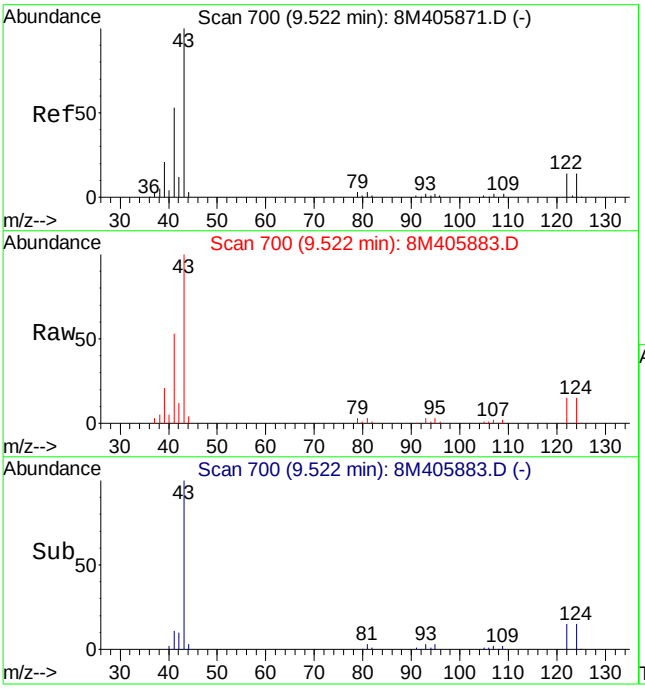


#33
Chloroform
Concen: 20.66 ug/L
RT: 9.38 min Scan# 686
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 83 Resp: 254884

Ion	Ratio	Lower	Upper
83	100		
85	64.7	38.8	90.4

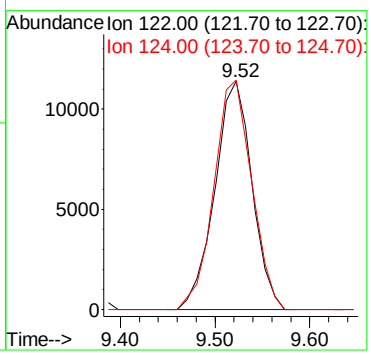


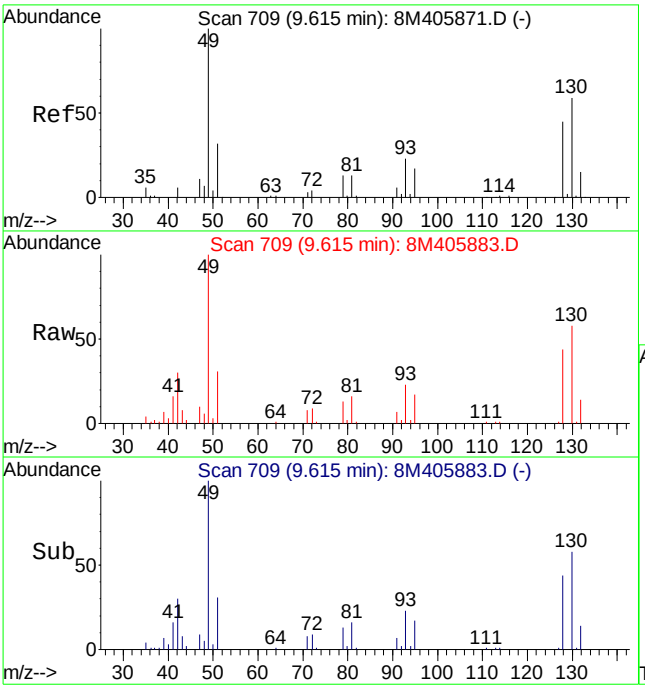


#34
1-Bromopropane
Concen: 26.36 ug/L
RT: 9.52 min Scan# 700
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:122 Resp: 31309

Ion	Ratio	Lower	Upper
122	100		
124	102.1	0.0	213.1

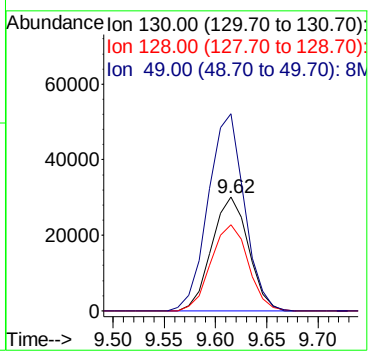


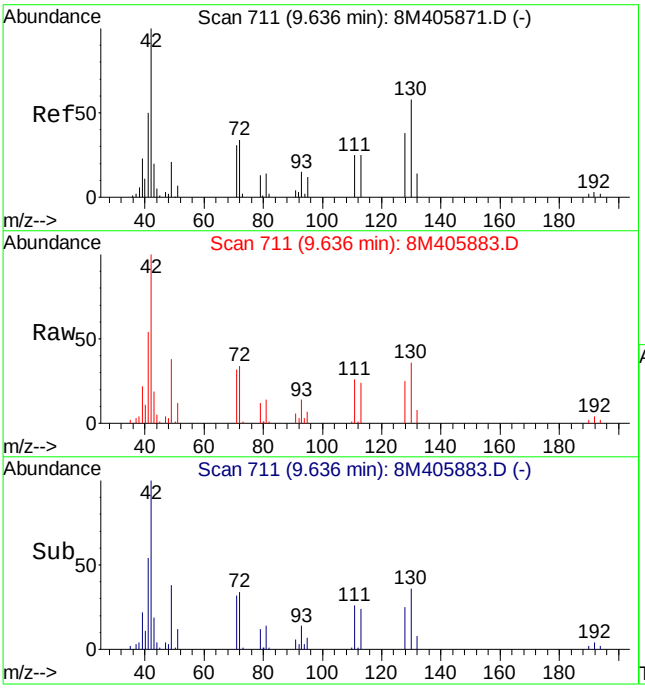


#35
Bromochloromethane
Concen: 21.01 ug/L
RT: 9.62 min Scan# 709
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:130 Resp: 74920

Ion	Ratio	Lower	Upper
130	100		
128	76.5	46.4	108.2
49	170.3	104.0	242.8

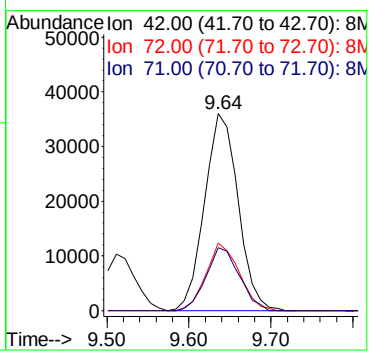


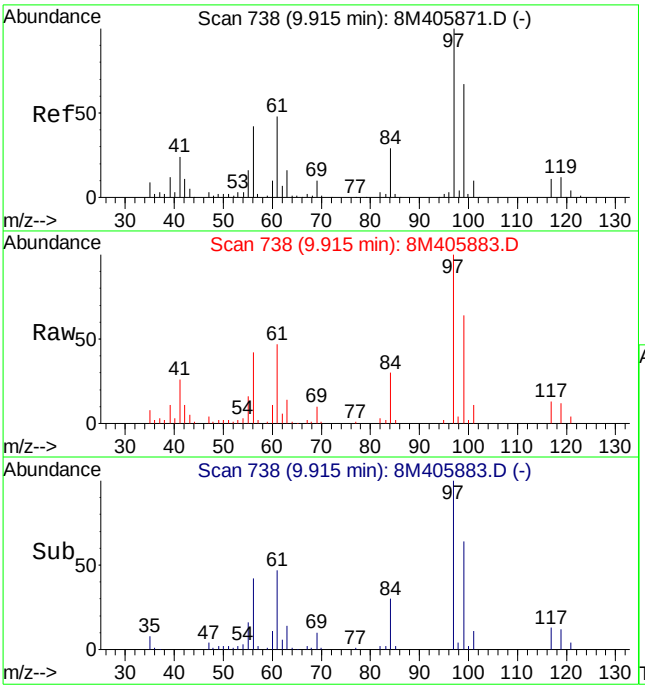


#36
Tetrahydrofuran
Concen: 99.86 ug/L
RT: 9.64 min Scan# 711
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 42 Resp: 102452

Ion	Ratio	Lower	Upper
42	100		
72	33.8	22.4	52.4
71	31.7	19.5	45.5

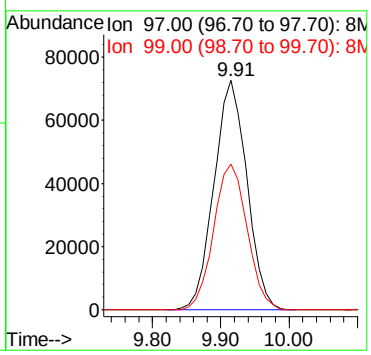


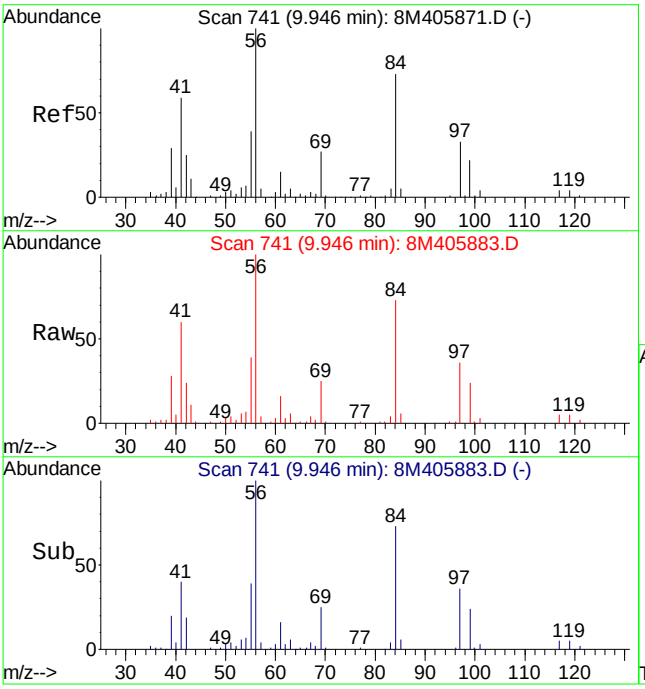


#38
1,1,1-Trichloroethane
Concen: 20.70 ug/L
RT: 9.91 min Scan# 738
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 97 Resp: 242496

Ion	Ratio	Lower	Upper
97	100		
99	64.6	39.7	92.7

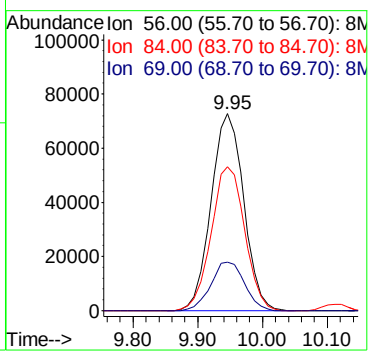


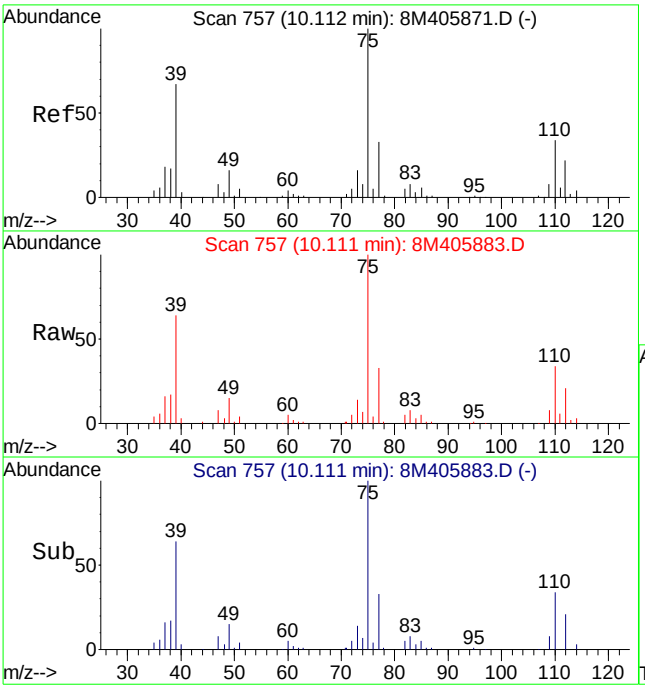


#39
Cyclohexane
Concen: 18.57 ug/L
RT: 9.95 min Scan# 741
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 56 Resp: 254435

Ion	Ratio	Lower	Upper
56	100		
84	75.2	45.4	105.8
69	25.4	15.8	37.0

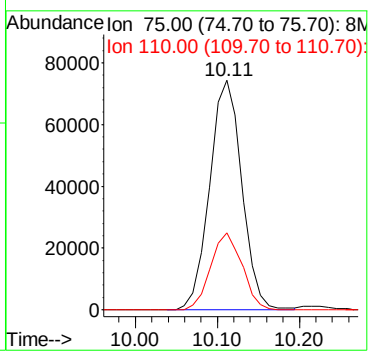


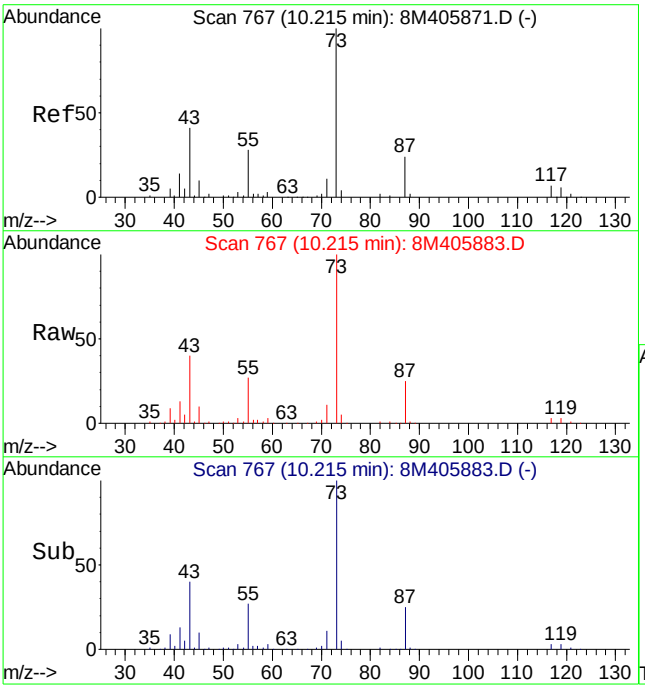


#40
1,1-Dichloropropene
Concen: 21.60 ug/L
RT: 10.11 min Scan# 757
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 75 Resp: 202727

Ion	Ratio	Lower	Upper
75	100		
110	32.6	20.2	47.0

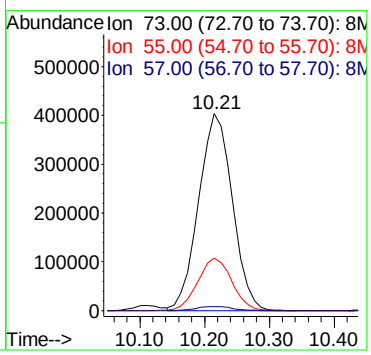


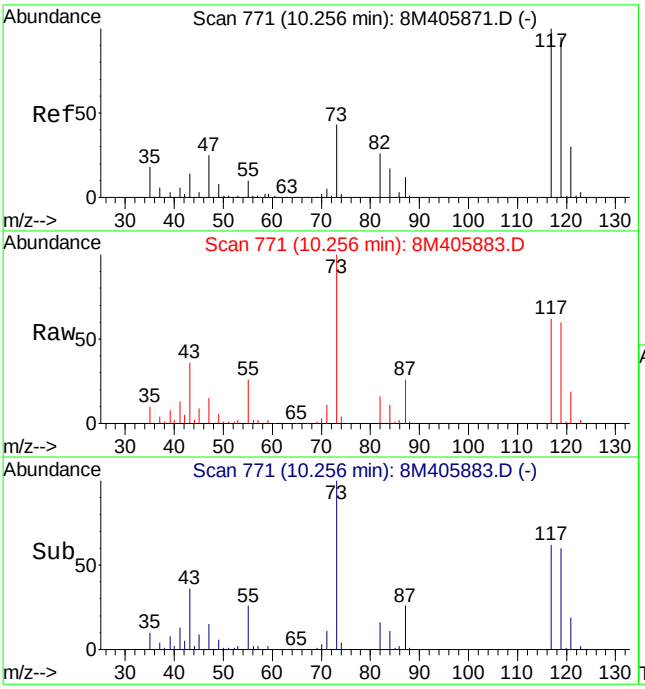


#41
Tert-Amyl-Methyl ether
Concen: 99.79 ug/L
RT: 10.21 min Scan# 767
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 73 Resp: 1462102

Ion	Ratio	Lower	Upper
73	100		
55	26.9	16.1	37.5
57	2.3	1.3	3.1

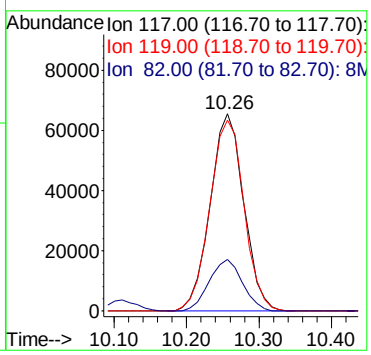


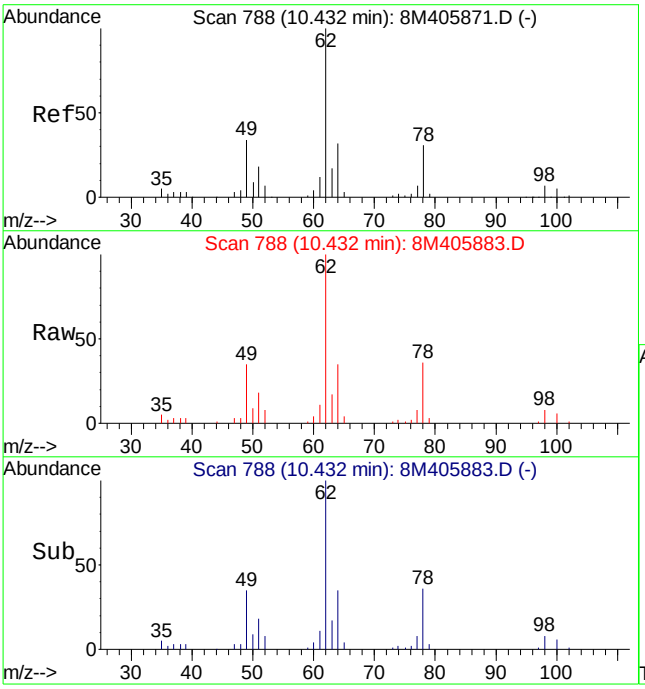


#42
Carbon Tetrachloride
Concen: 19.97 ug/L
RT: 10.26 min Scan# 771
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:117 Resp: 211816

Ion	Ratio	Lower	Upper
117	100		
119	98.6	58.0	135.2
82	25.7	15.7	36.5

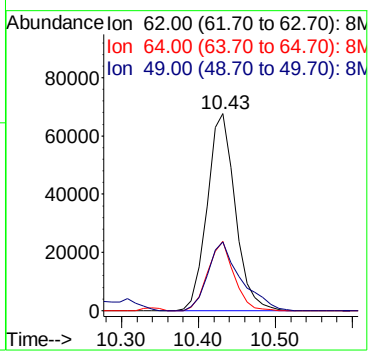


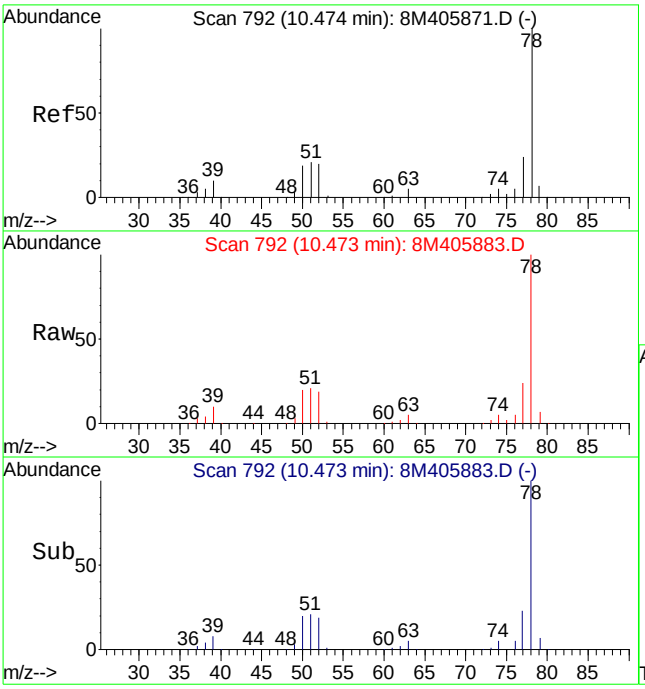


#45
1,2-Dichloroethane
Concen: 20.42 ug/L
RT: 10.43 min Scan# 788
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 62 Resp: 171308

Ion	Ratio	Lower	Upper
62	100		
64	32.7	18.8	44.0
49	40.6	25.3	58.9

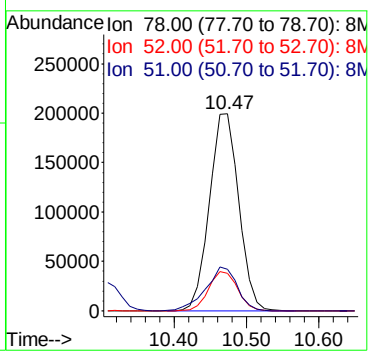


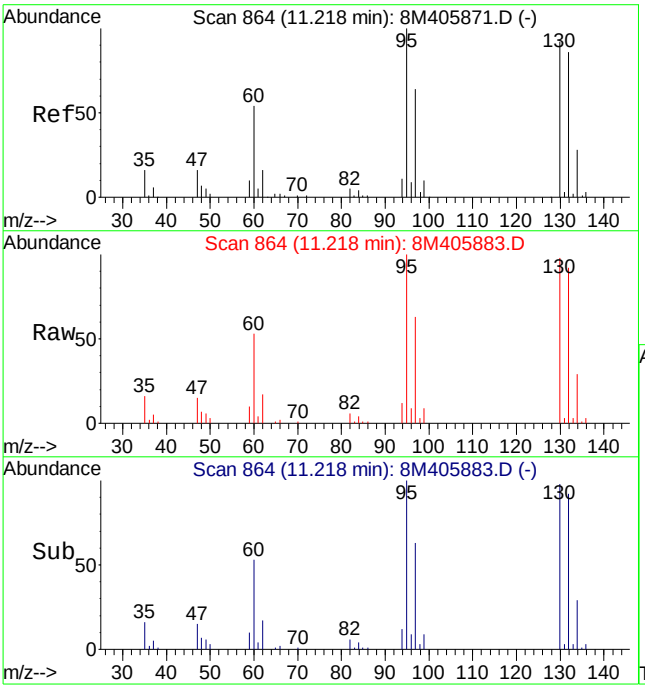


#46
Benzene
Concen: 20.99 ug/L
RT: 10.47 min Scan# 792
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 78 Resp: 564995

Ion	Ratio	Lower	Upper
78	100		
52	19.7	12.1	28.1
51	23.8	14.6	34.2

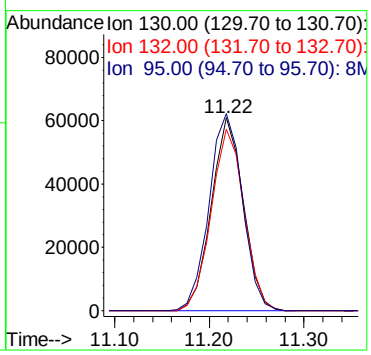


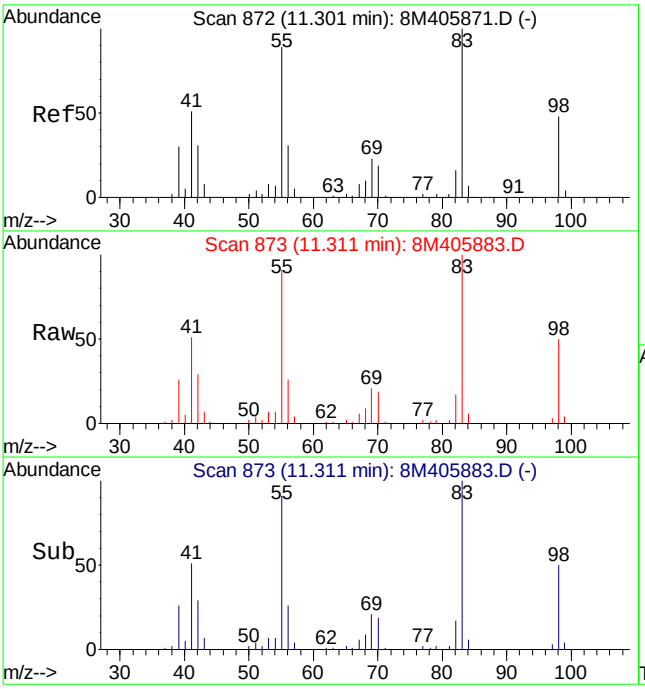


#47
Trichloroethene
Concen: 21.55 ug/L
RT: 11.22 min Scan# 864
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:130 Resp: 144280

Ion	Ratio	Lower	Upper
130	100		
132	96.0	59.0	137.6
95	106.4	65.0	151.8

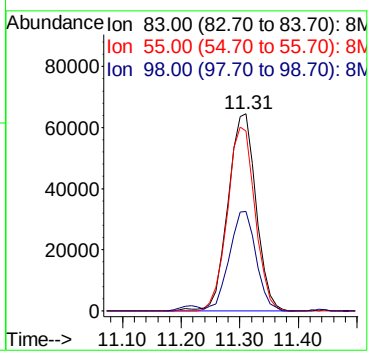


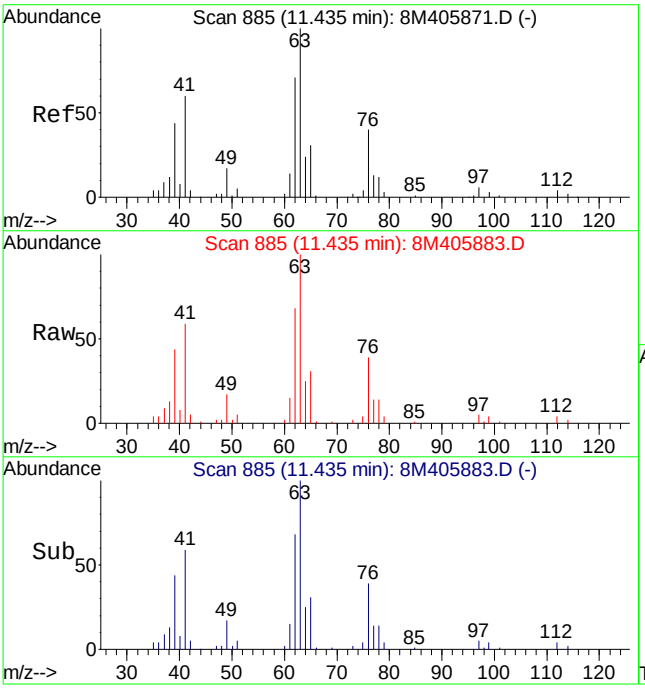


#48
Methylcyclohexane
Concen: 19.52 ug/L
RT: 11.31 min Scan# 873
Delta R.T. 0.01 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 83 Resp: 213067

Ion	Ratio	Lower	Upper
83	100		
55	91.8	54.8	128.0
98	48.2	29.0	67.8

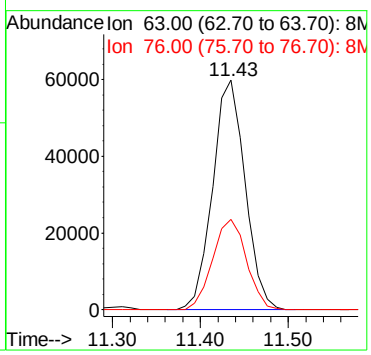


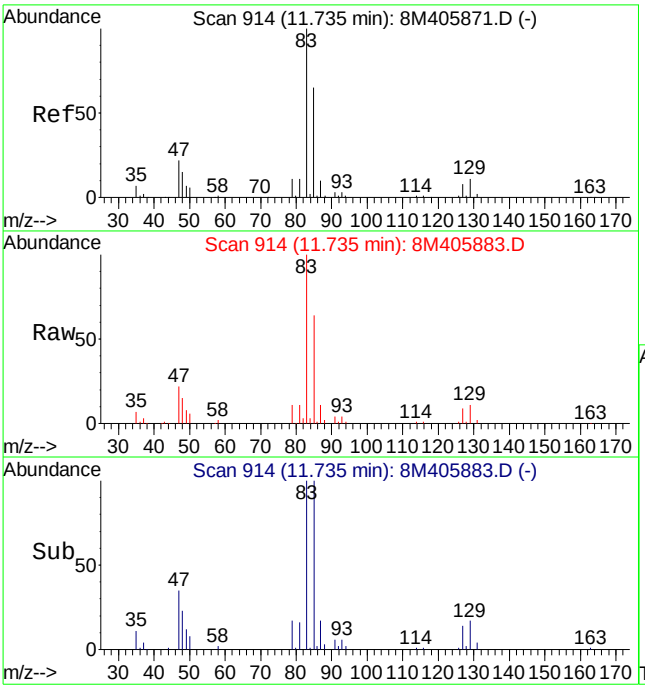


#49
1,2-Dichloropropane
Concen: 20.61 ug/L
RT: 11.43 min Scan# 885
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 63 Resp: 153902

Ion	Ratio	Lower	Upper
63	100		
76	41.1	24.4	57.0

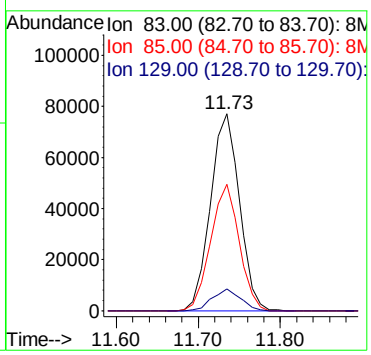


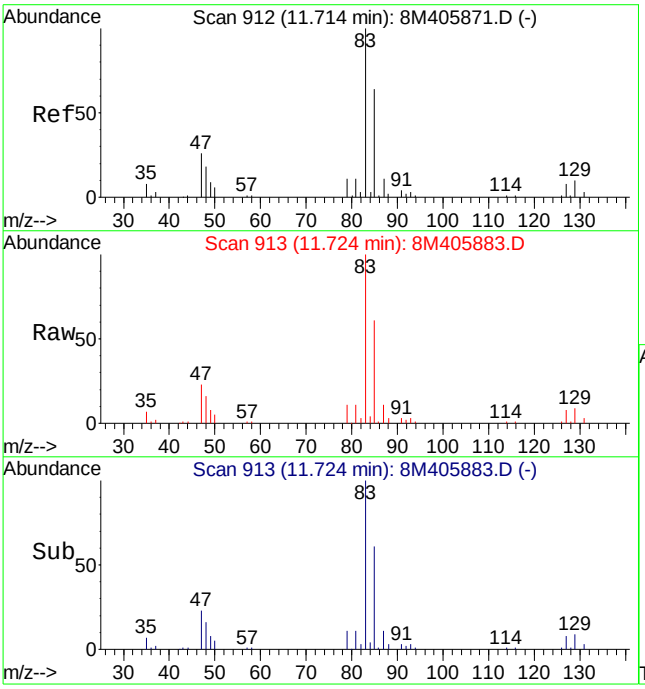


#50
Bromodichloromethane
Concen: 20.51 ug/L
RT: 11.73 min Scan# 914
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 83 Resp: 189051

Ion	Ratio	Lower	Upper
83	100		
85	63.3	38.6	90.2
129	10.8	6.6	15.4

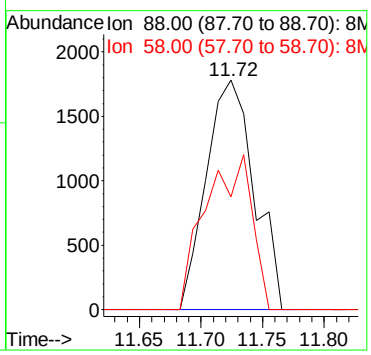


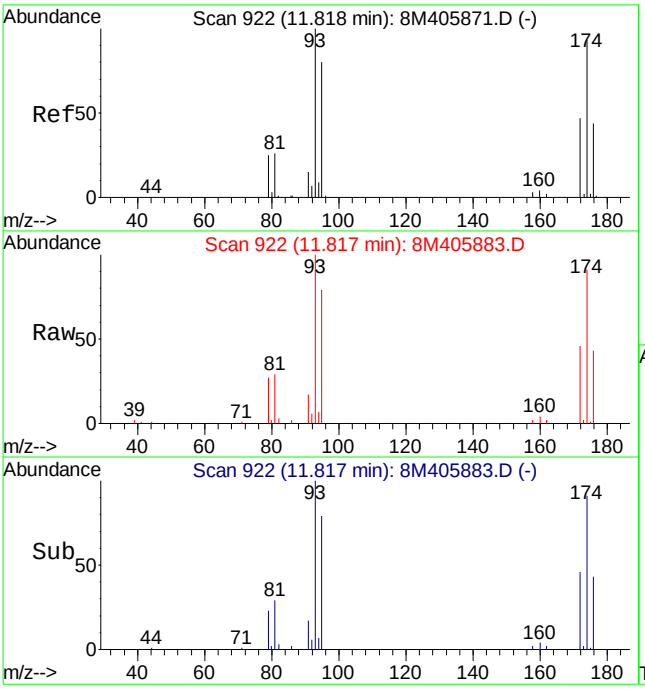


#51
1,4-Dioxane
Concen: 196.34 ug/L
RT: 11.72 min Scan# 913
Delta R.T. 0.01 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 88 Resp: 4841

Ion	Ratio	Lower	Upper
88	100		
58	65.3	46.9	109.3

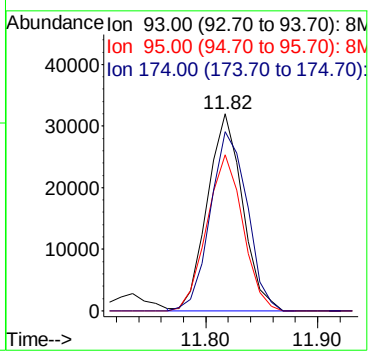


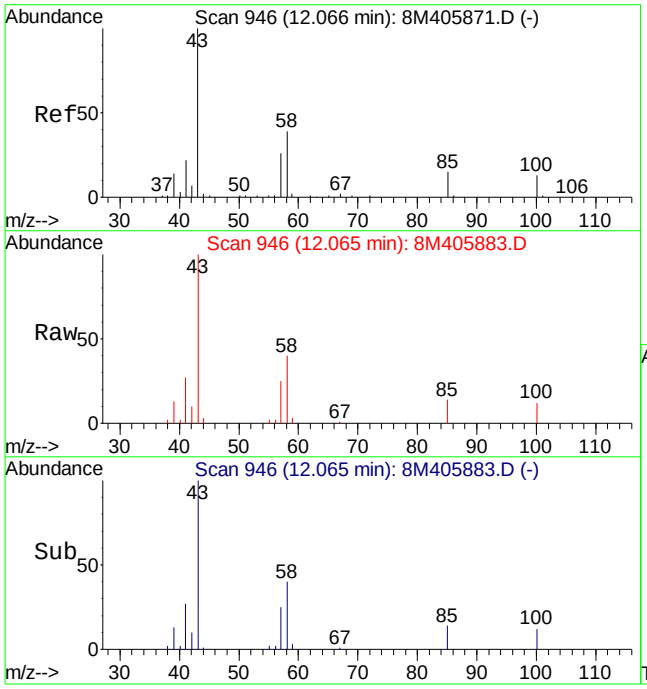


#52
Dibromomethane
Concen: 20.28 ug/L
RT: 11.82 min Scan# 922
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 93 Resp: 69988

Ion	Ratio	Lower	Upper
93	100		
95	81.0	48.9	114.1
174	94.9	58.1	135.5

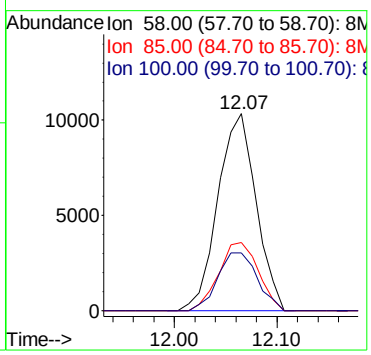


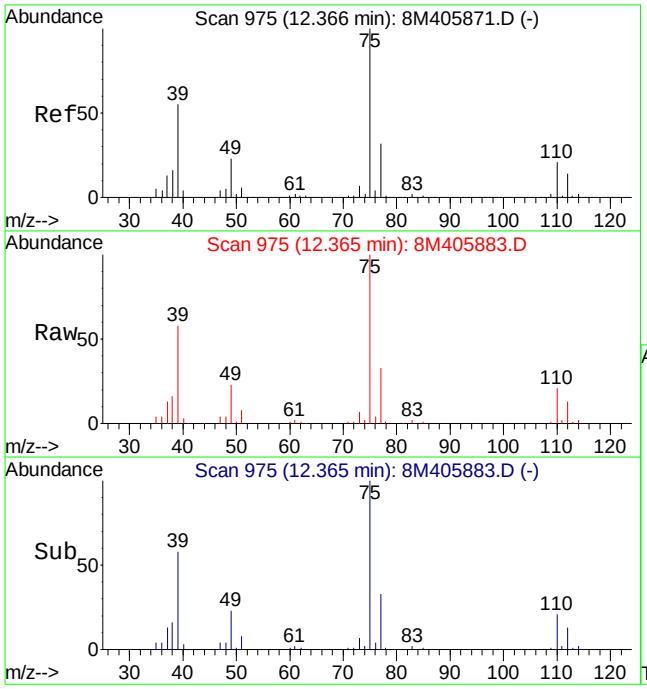


#54
4-Methyl-2-Pentanone
Concen: 19.25 ug/L
RT: 12.07 min Scan# 946
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 58 Resp: 26723

Ion	Ratio	Lower	Upper
58	100		
85	35.9	21.8	51.0
100	30.5	19.4	45.4

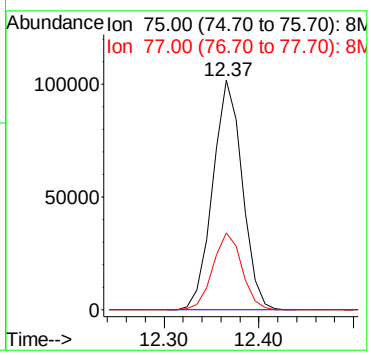


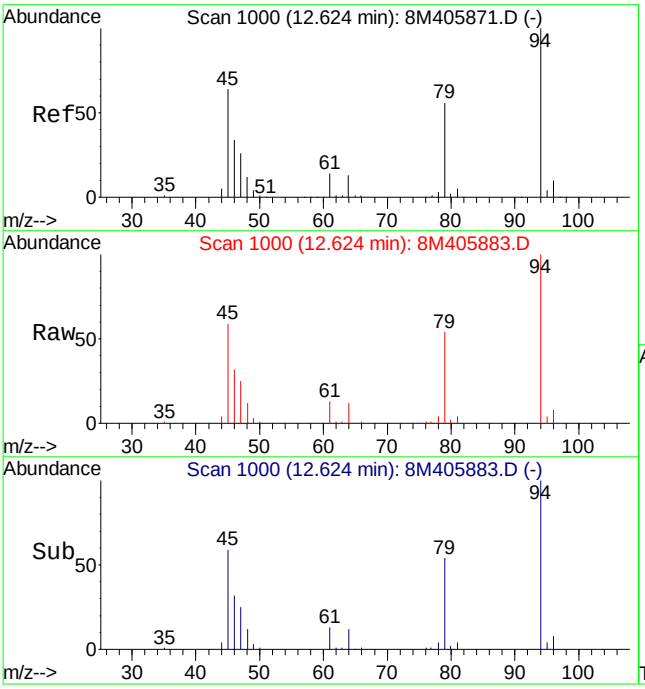


#55
cis-1,3-Dichloropropene
Concen: 21.70 ug/L
RT: 12.37 min Scan# 975
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 75 Resp: 221865

Ion	Ratio	Lower	Upper
75	100		
77	32.8	18.9	44.1

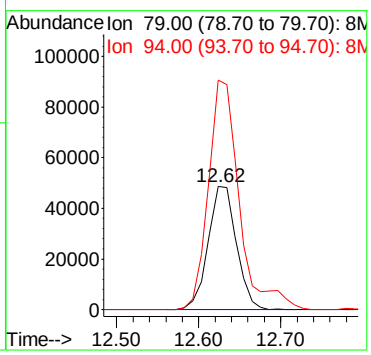


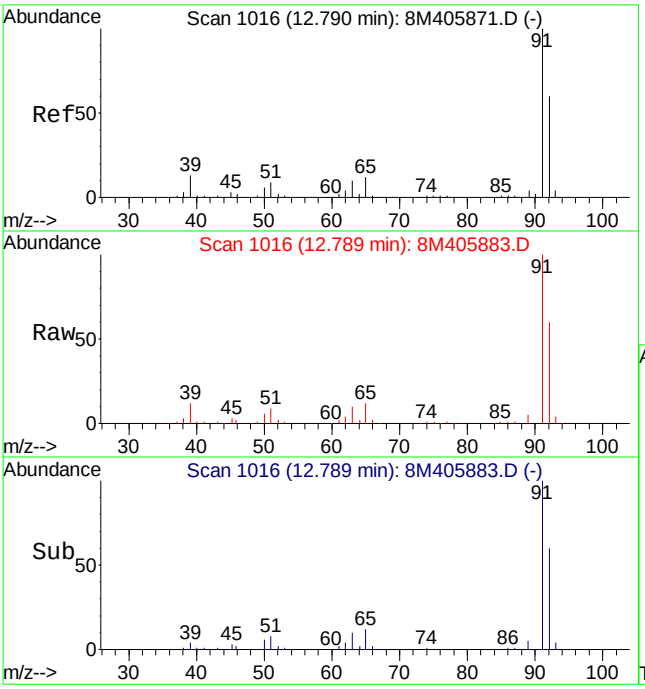


#56
Dimethyl Disulfide
Concen: 20.48 ug/L
RT: 12.62 min Scan# 1000
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 79 Resp: 116540

Ion	Ratio	Lower	Upper
79	100		
94	203.9	114.7	267.7

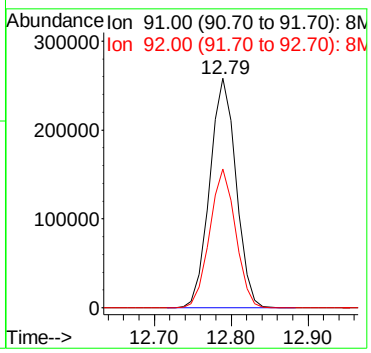


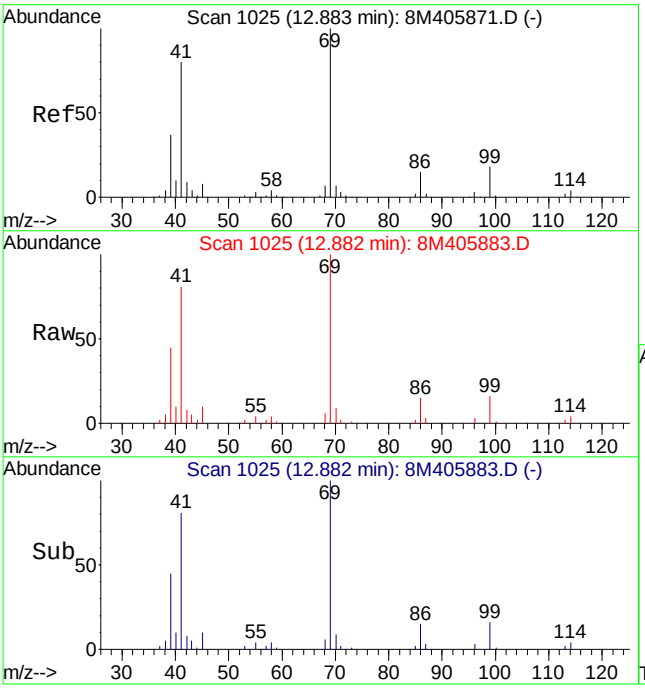


#59
Toluene
Concen: 21.62 ug/L
RT: 12.79 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 91 Resp: 614870

Ion	Ratio	Lower	Upper
91	100		
92	59.5	35.7	83.3

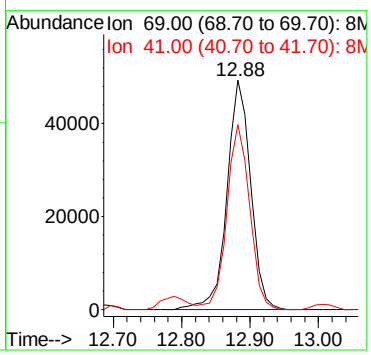


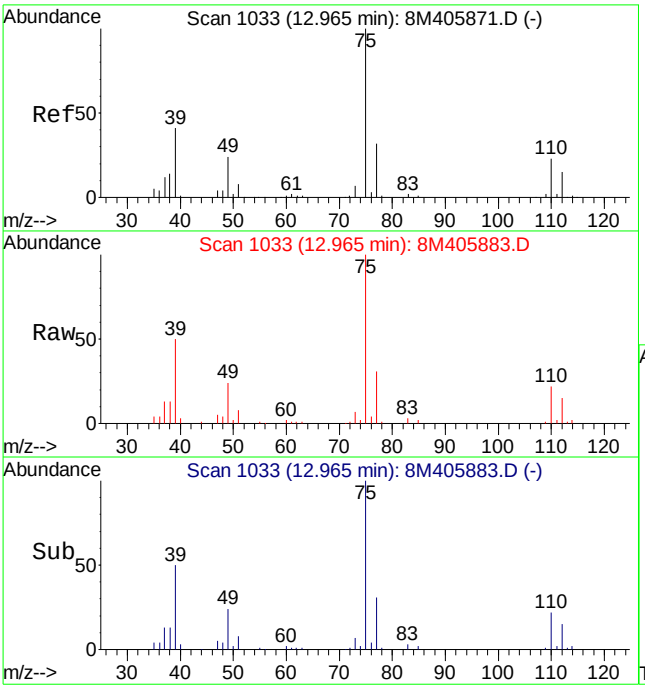


#60
Ethyl Methacrylate
Concen: 22.70 ug/L
RT: 12.88 min Scan# 1025
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 69 Resp: 119047

Ion	Ratio	Lower	Upper
69	100		
41	77.9	48.5	113.3

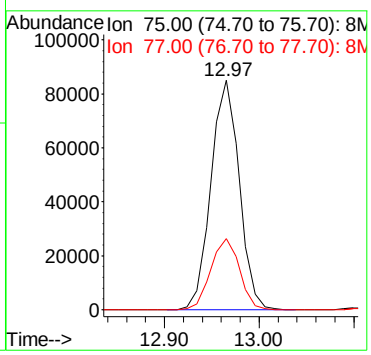


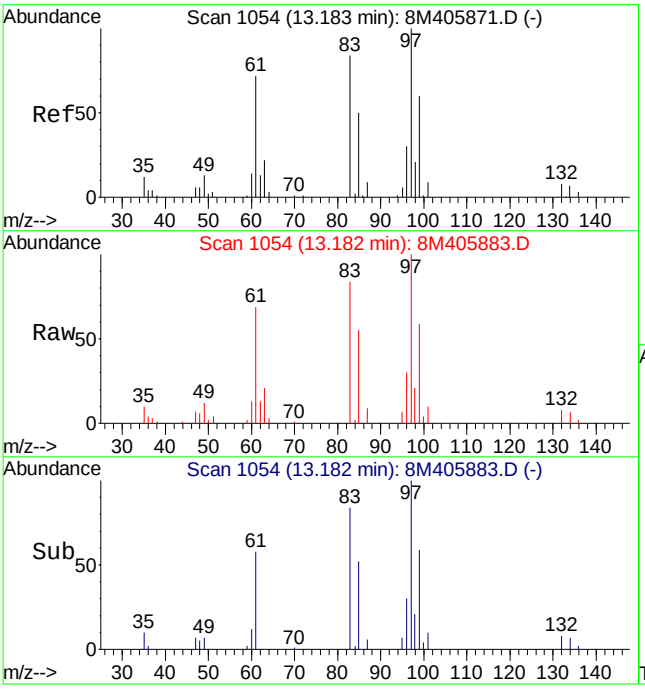


#62
trans-1,3-Dichloropropene
Concen: 20.20 ug/L
RT: 12.97 min Scan# 1033
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 75 Resp: 177212

Ion	Ratio	Lower	Upper
75	100		
77	31.5	19.2	44.8

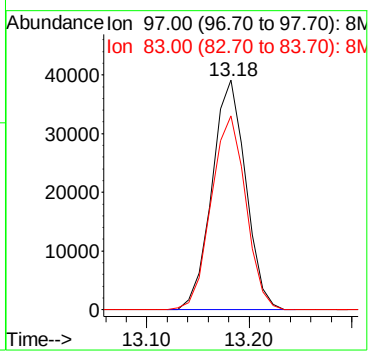


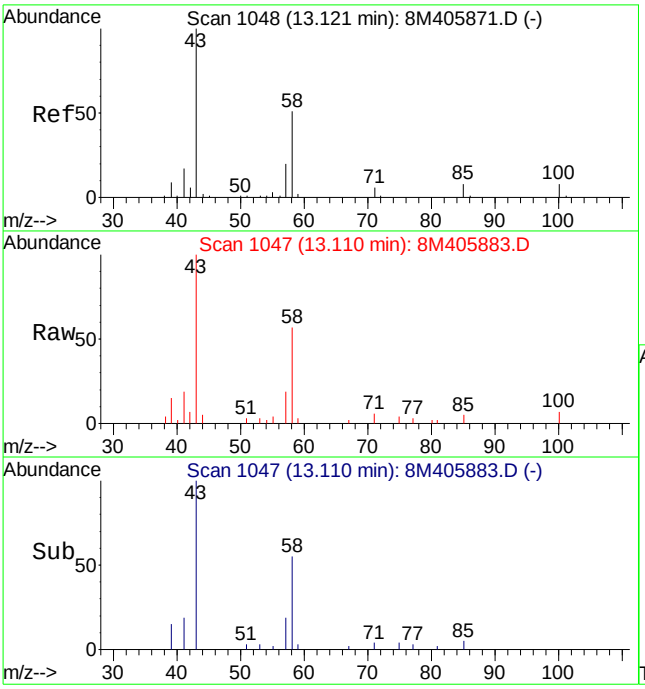


#63
1,1,2-Trichloroethane
Concen: 20.36 ug/L
RT: 13.18 min Scan# 1054
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 97 Resp: 89496

Ion	Ratio	Lower	Upper
97	100		
83	86.2	51.1	119.1

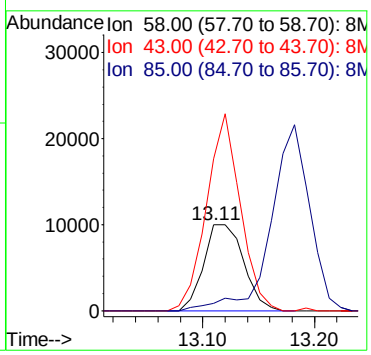


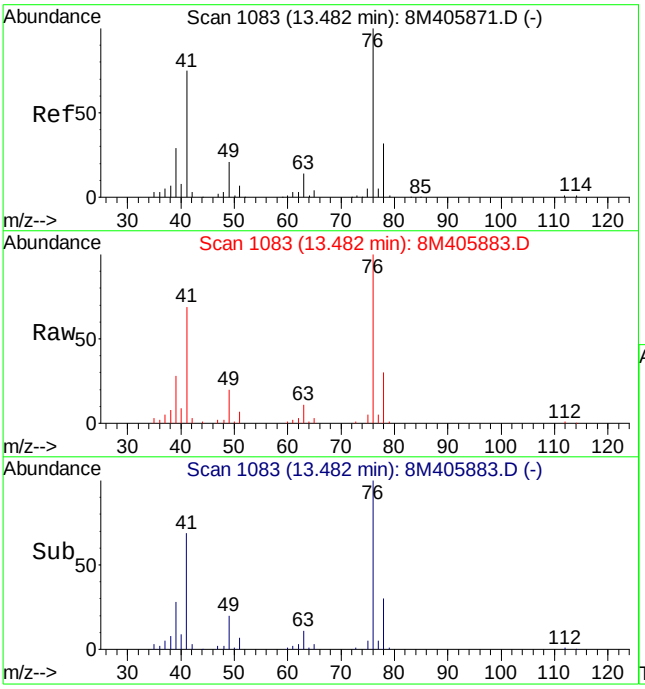


#64
2-Hexanone
Concen: 19.55 ug/L
RT: 13.11 min Scan# 1047
Delta R.T. -0.01 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 58 Resp: 24828

Ion	Ratio	Lower	Upper
58	100		
43	193.4	116.8	272.4
85	0.0	0.0	0.0

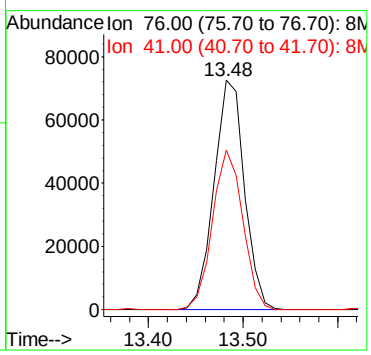


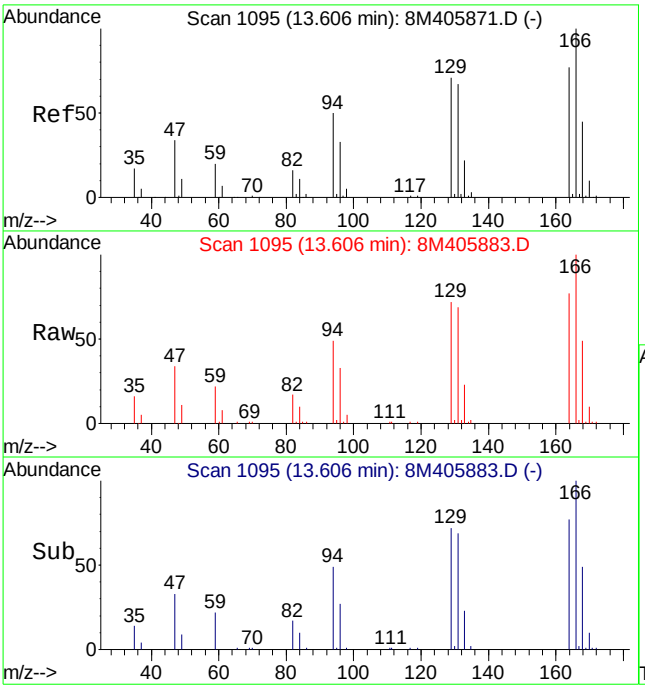


#65
1,3-Dichloropropane
Concen: 21.20 ug/L
RT: 13.48 min Scan# 1083
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 76 Resp: 163213

Ion	Ratio	Lower	Upper
76	100		
41	69.0	43.3	100.9

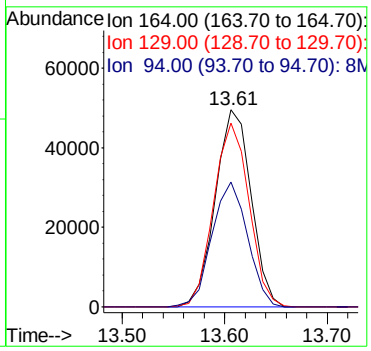


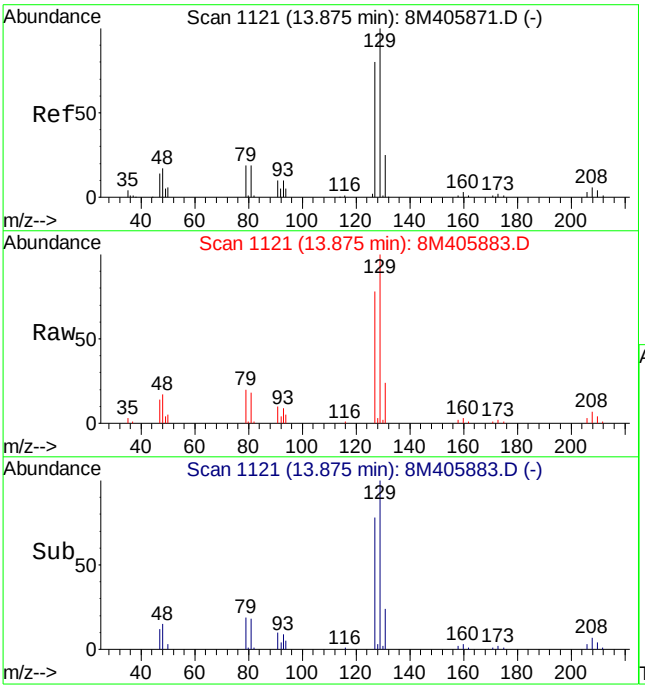


#66
Tetrachloroethene
Concen: 20.69 ug/L
RT: 13.61 min Scan# 1095
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:164 Resp: 120181

Ion	Ratio	Lower	Upper
164	100		
129	92.3	54.3	126.7
94	63.0	38.3	89.5

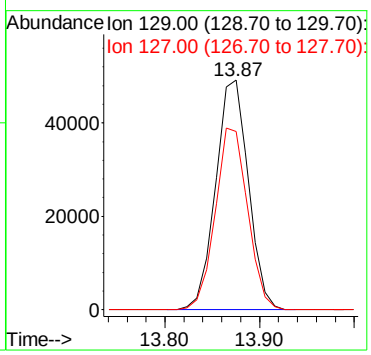


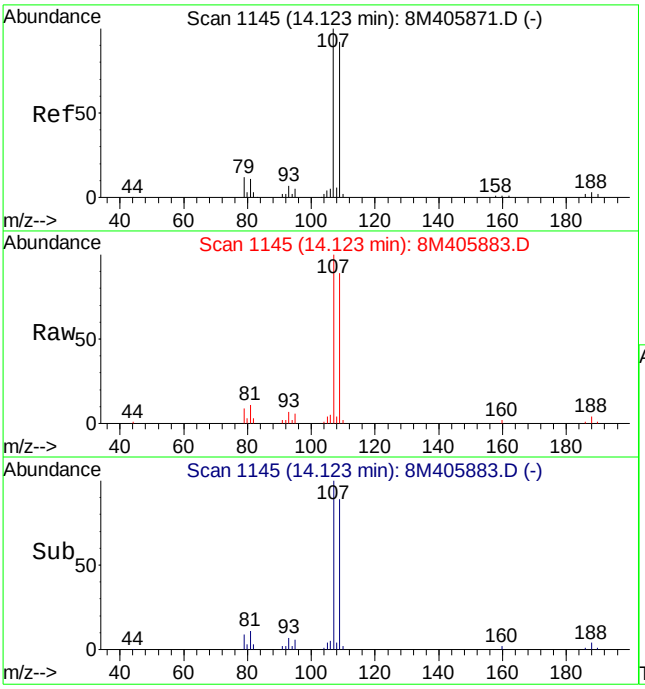


#67
Dibromochloromethane
Concen: 18.66 ug/L
RT: 13.87 min Scan# 1121
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:129 Resp: 118864

Ion	Ratio	Lower	Upper
129	100		
127	78.4	46.4	108.2

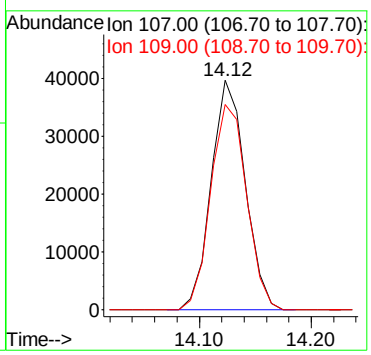


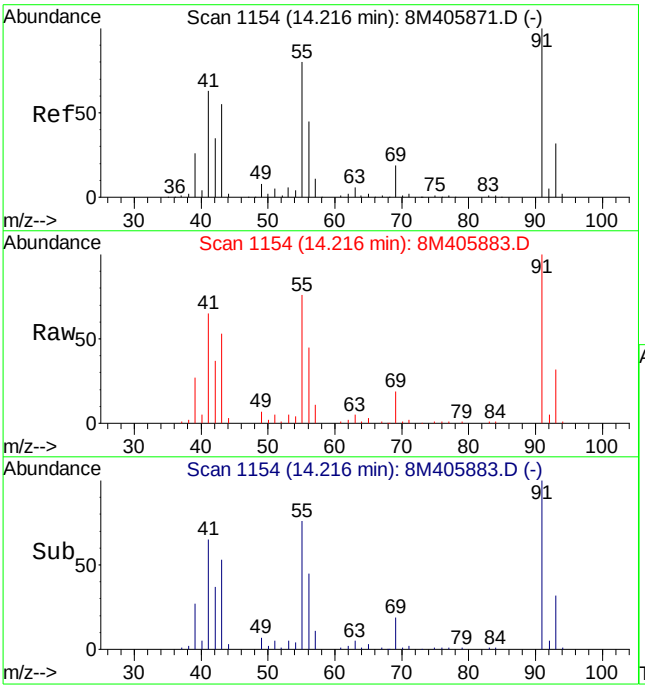


#68
1,2-Dibromoethane
Concen: 19.86 ug/L
RT: 14.12 min Scan# 1145
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:107 Resp: 84002

Ion	Ratio	Lower	Upper
107	100		
109	94.0	56.5	131.7

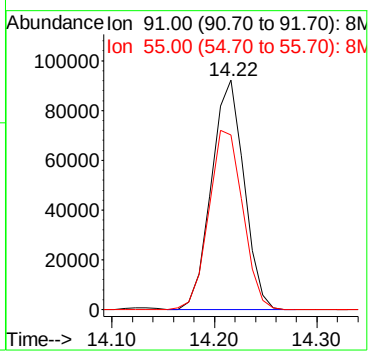


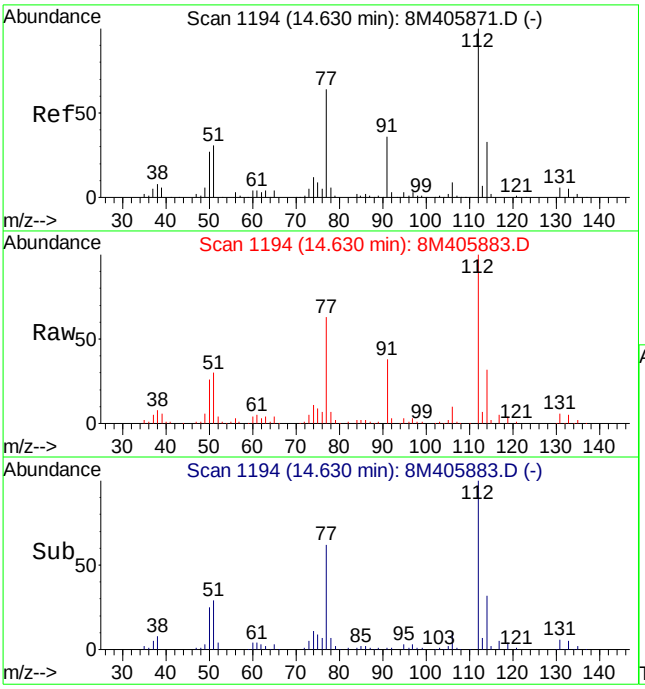


#69
1-Chlorohexane
Concen: 20.56 ug/L
RT: 14.22 min Scan# 1154
Delta R.T. 0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 91 Resp: 203976

Ion	Ratio	Lower	Upper
91	100		
55	81.2	48.3	112.7

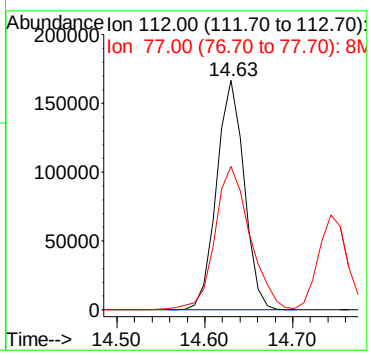


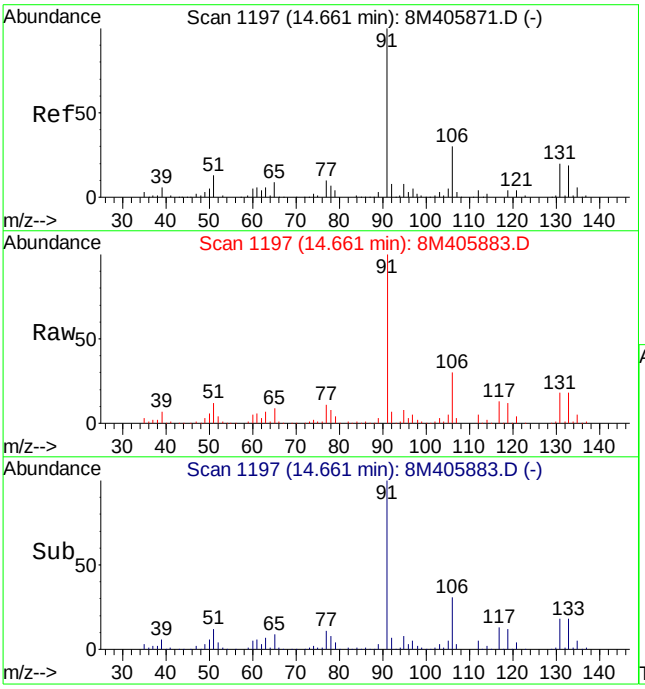


#70
Chlorobenzene
Concen: 19.13 ug/L
RT: 14.63 min Scan# 1194
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:112 Resp: 364713

Ion	Ratio	Lower	Upper
112	100		
77	79.8	47.6	111.0

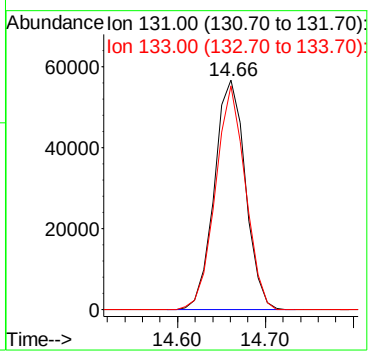


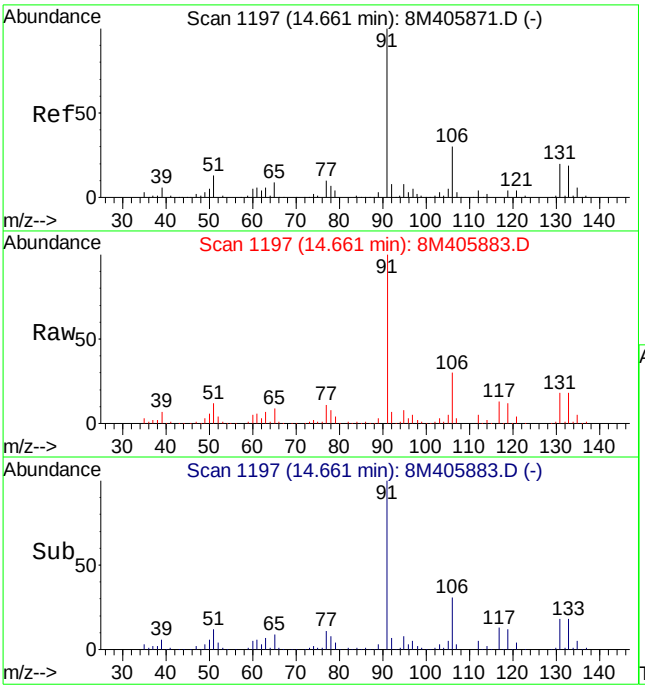


#71
1,1,1,2-Tetrachloroethane
Concen: 20.04 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:131 Resp: 138938

Ion	Ratio	Lower	Upper
131	100		
133	94.3	57.1	133.1

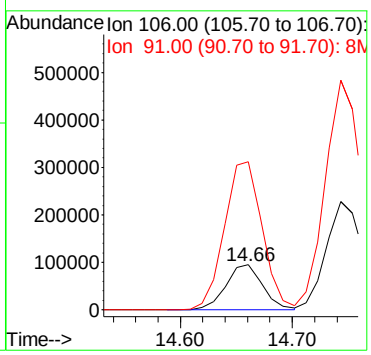


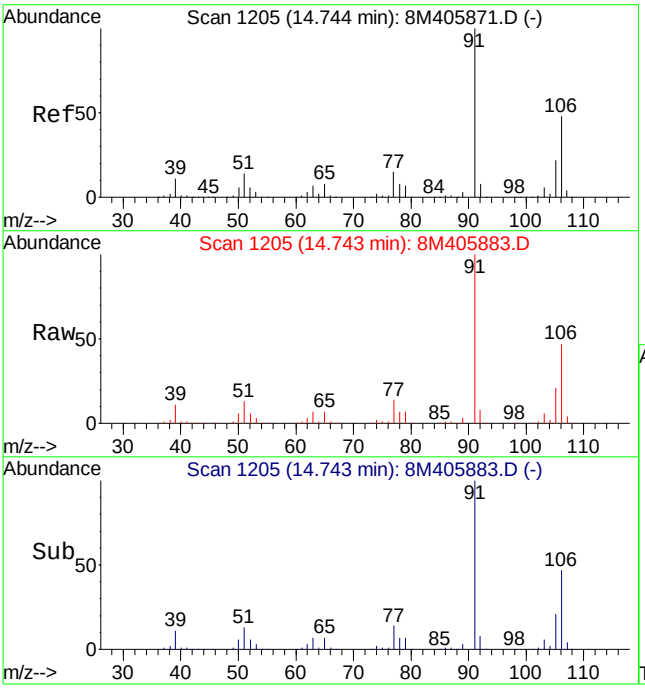


#72
Ethylbenzene
Concen: 20.22 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:106 Resp: 216887

Ion	Ratio	Lower	Upper
106	100		
91	336.9	199.7	466.1

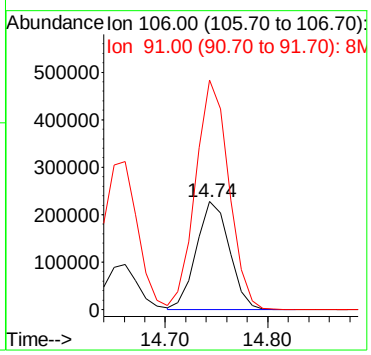


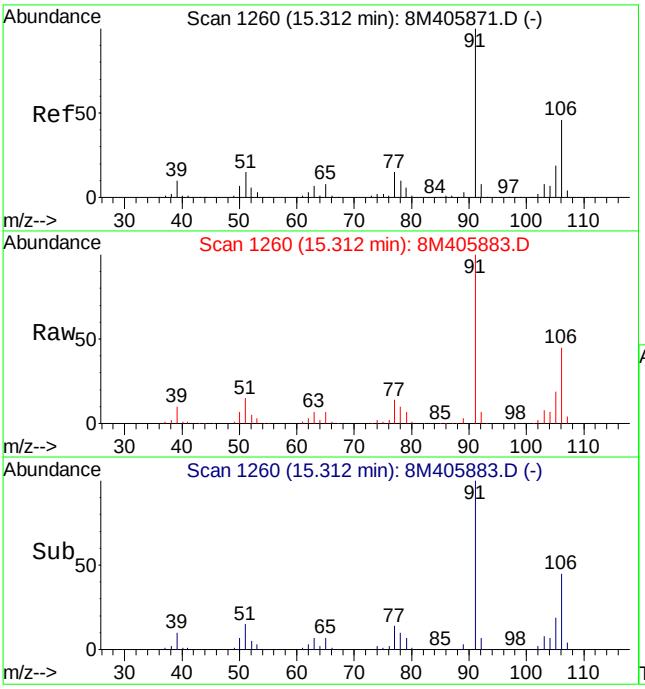


#73
m-,p-Xylene
Concen: 40.62 ug/L
RT: 14.74 min Scan# 1205
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:106 Resp: 513094

Ion	Ratio	Lower	Upper
106	100		
91	213.1	125.1	291.9

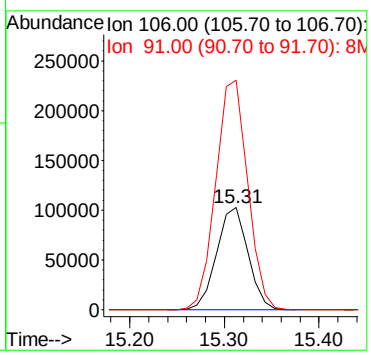


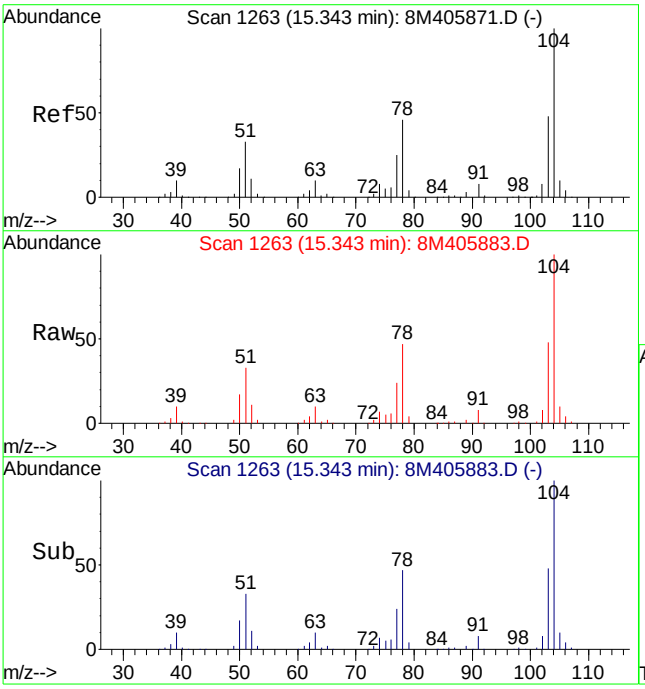


#74
o-Xylene
Concen: 19.50 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:106 Resp: 238940

Ion	Ratio	Lower	Upper
106	100		
91	228.3	134.3	313.5

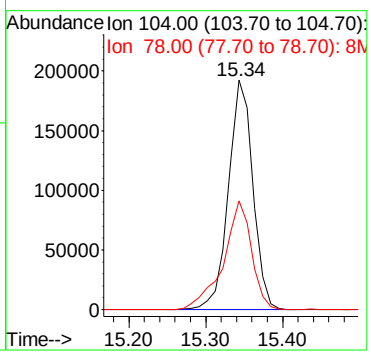


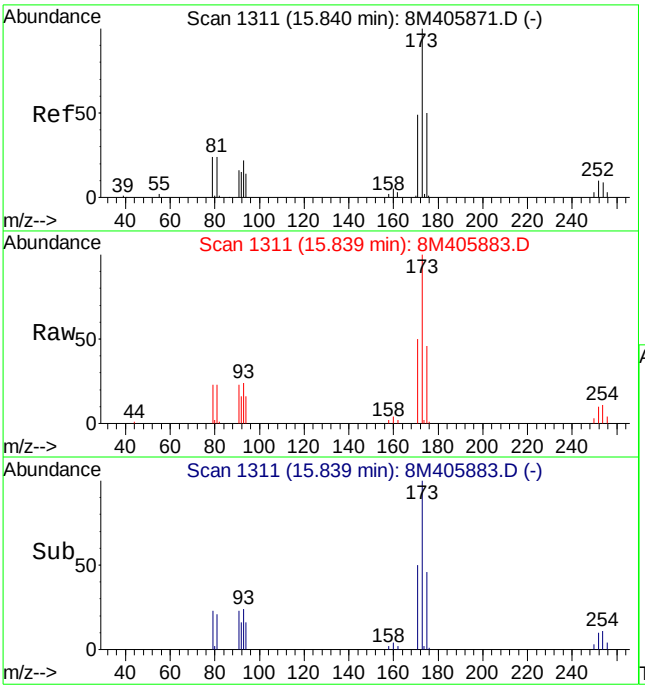


#75
Styrene
Concen: 21.51 ug/L
RT: 15.34 min Scan# 1263
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:104 Resp: 423613

Ion	Ratio	Lower	Upper
104	100		
78	54.3	32.9	76.7

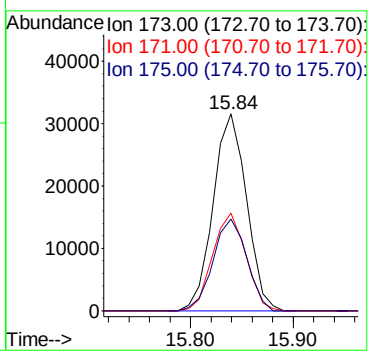


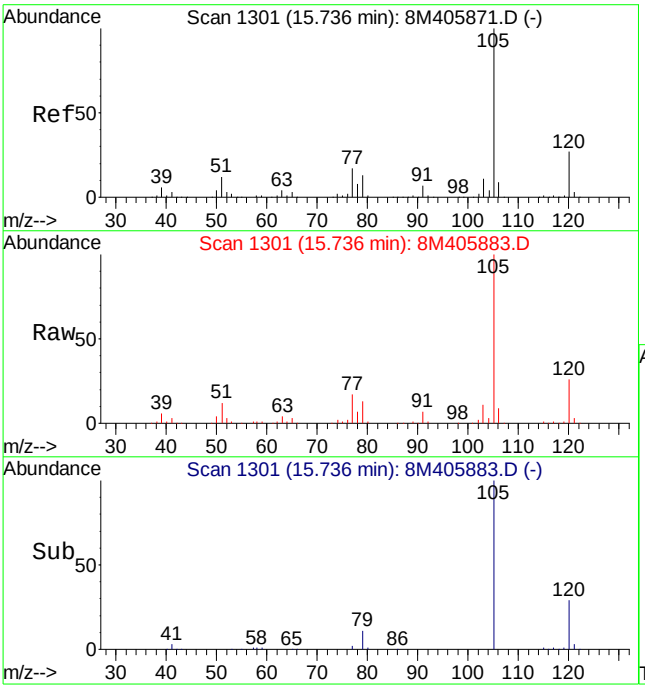


#76
Bromoform
Concen: 18.69 ug/L
RT: 15.84 min Scan# 1311
Delta R.T. 0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:173 Resp: 71267

Ion	Ratio	Lower	Upper
173	100		
171	49.6	30.5	71.1
175	47.2	29.8	69.4

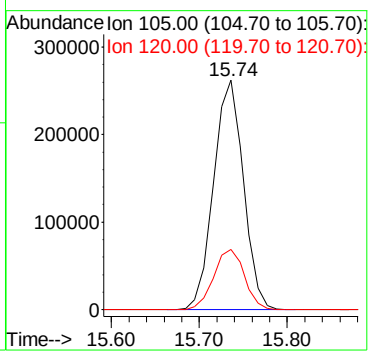


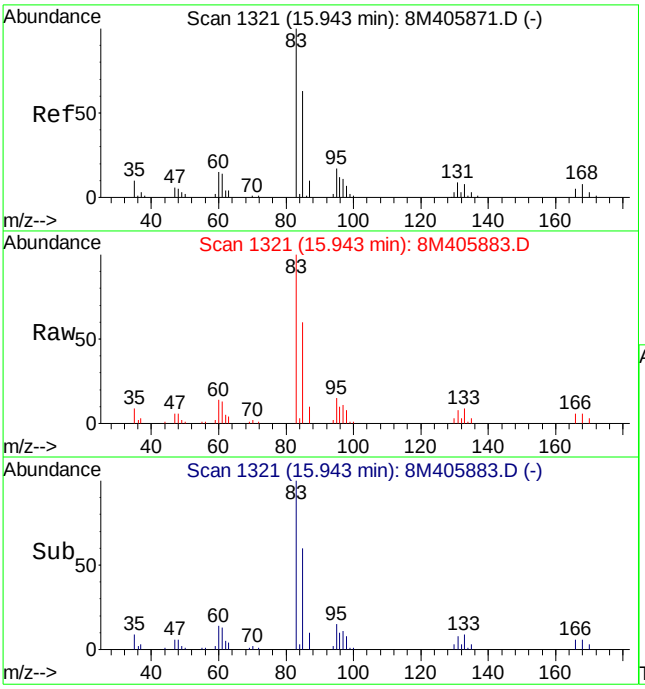


#77
Isopropylbenzene
Concen: 20.13 ug/L
RT: 15.74 min Scan# 1301
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:105 Resp: 618833

Ion	Ratio	Lower	Upper
105	100		
120	27.0	16.0	37.2

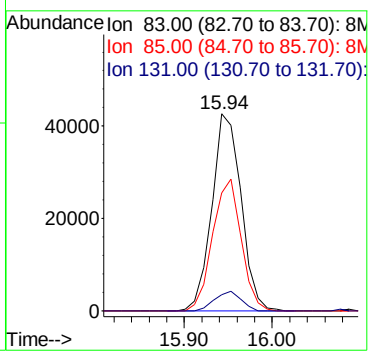


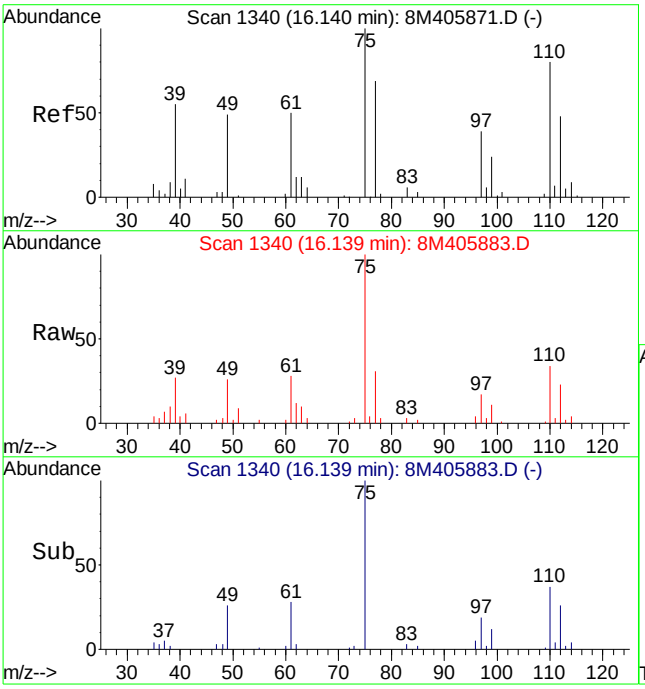


#79
1,1,2,2-Tetrachloroethane
Concen: 21.08 ug/L
RT: 15.94 min Scan# 1321
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 83 Resp: 98692

Ion	Ratio	Lower	Upper
83	100		
85	65.1	38.3	89.3
131	8.9	5.8	13.4

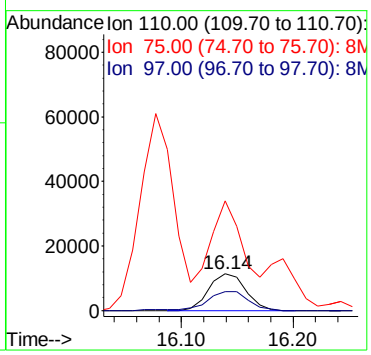


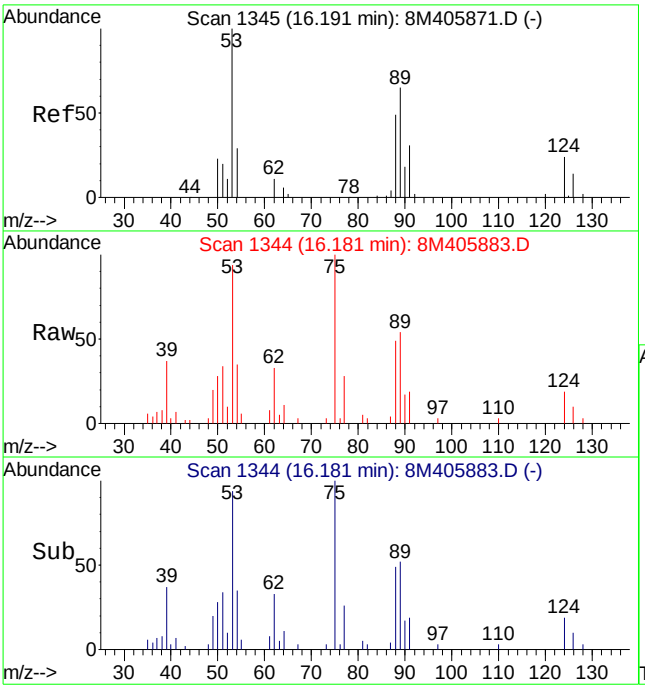


#81
1,2,3-Trichloropropane
Concen: 19.44 ug/L
RT: 16.14 min Scan# 1340
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:110 Resp: 26133

Ion	Ratio	Lower	Upper
110	100		
75	182.7	168.8	393.8
97	59.6	31.0	72.2

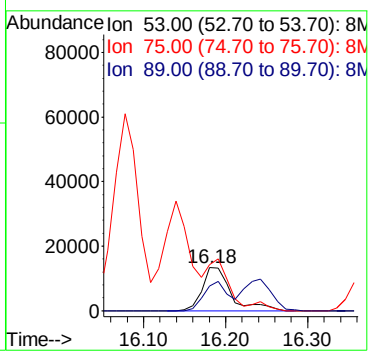


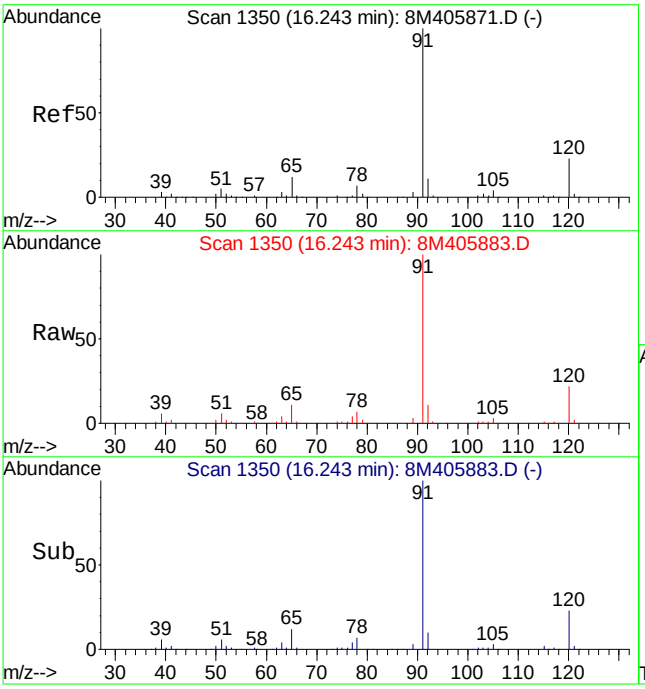


#82
trans-1,4-Dichloro-2-Butene
Concen: 19.45 ug/L
RT: 16.18 min Scan# 1344
Delta R.T. -0.01 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 53 Resp: 32459

Ion	Ratio	Lower	Upper
53	100		
75	147.1	58.5	136.5#
89	57.1	33.5	78.1

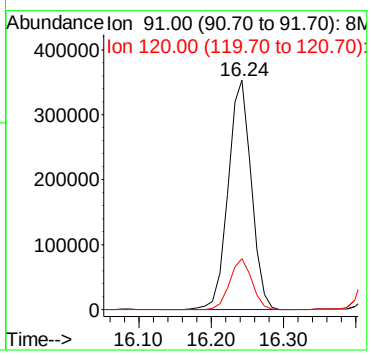


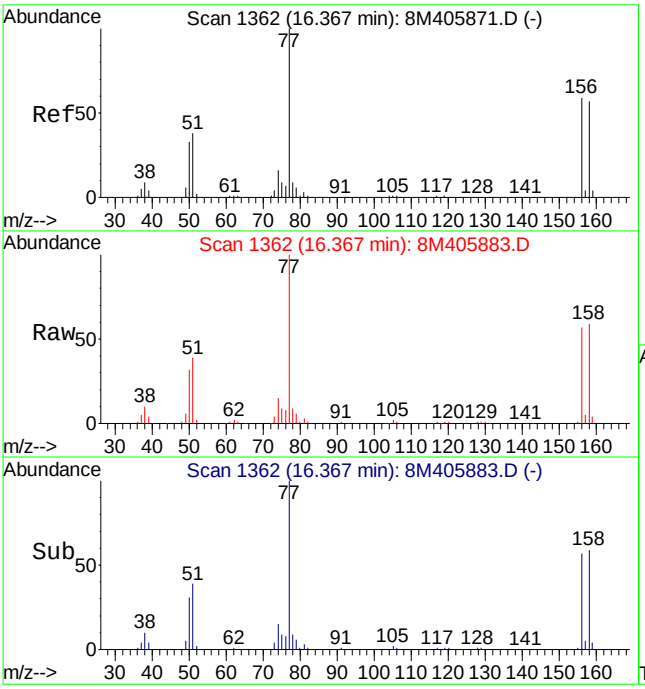


#83
n-Propylbenzene
Concen: 21.08 ug/L
RT: 16.24 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 91 Resp: 794611

Ion	Ratio	Lower	Upper
91	100		
120	21.2	13.1	30.5

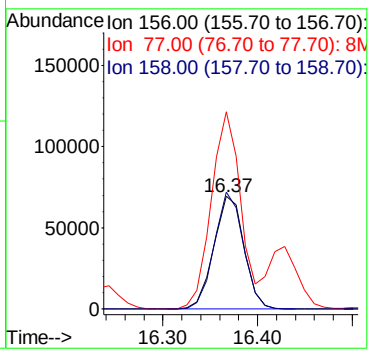


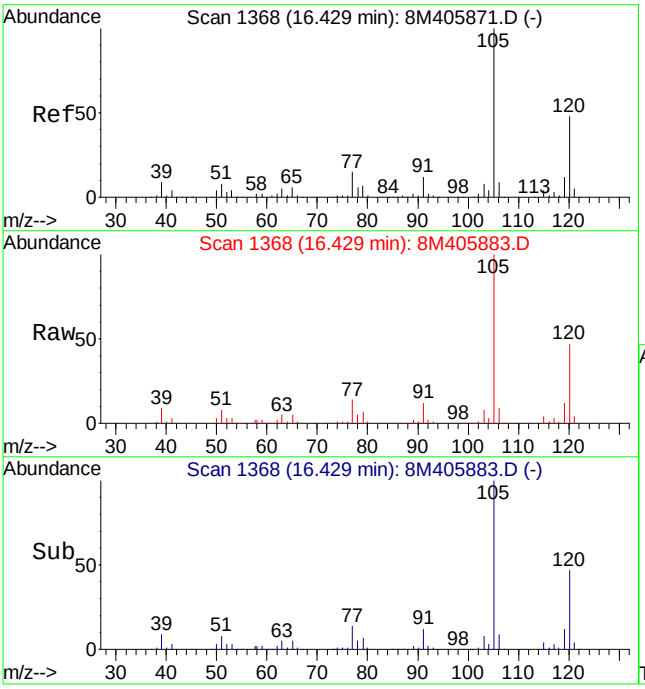


#84
Bromobenzene
Concen: 20.14 ug/L
RT: 16.37 min Scan# 1362
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:156 Resp: 154899

Ion	Ratio	Lower	Upper
156	100		
77	169.0	100.2	233.8
158	99.2	58.1	135.7

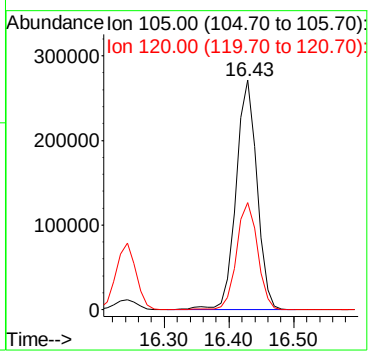


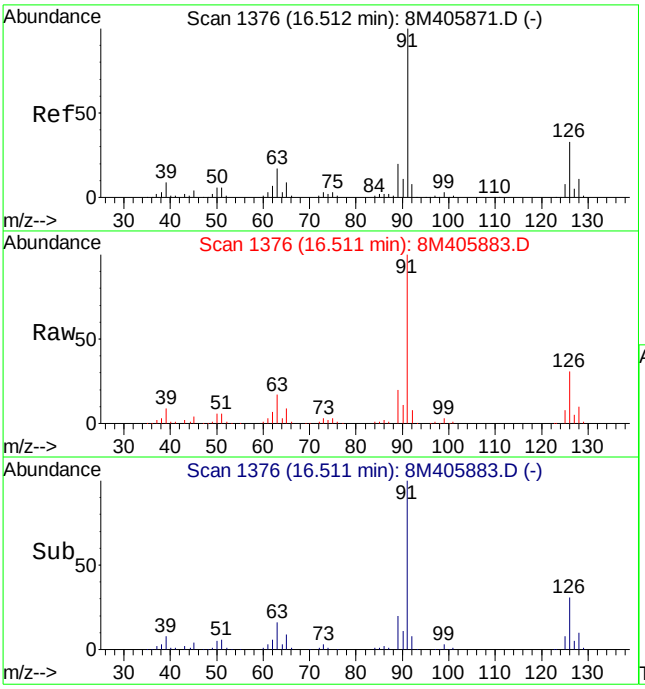


#85
1,3,5-Trimethylbenzene
Concen: 23.00 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:105 Resp: 604738

Ion	Ratio	Lower	Upper
105	100		
120	47.0	28.8	67.2

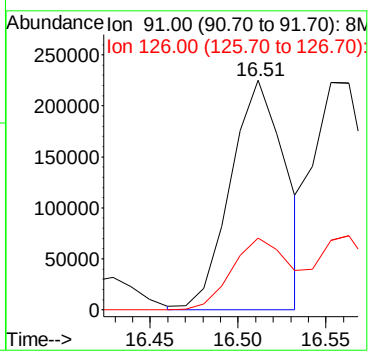


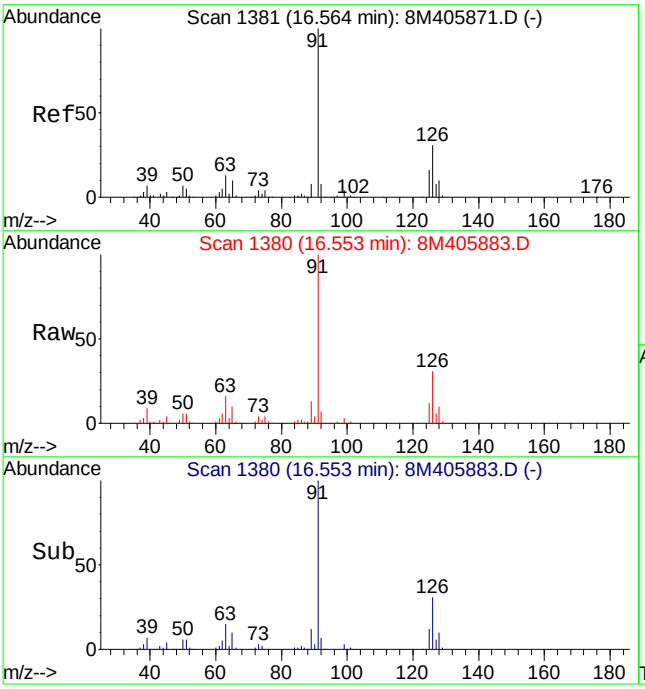


#86
2-Chlorotoluene
Concen: 20.65 ug/L
RT: 16.51 min Scan# 1376
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 91 Resp: 491583

Ion	Ratio	Lower	Upper
91	100		
126	31.8	19.4	45.4

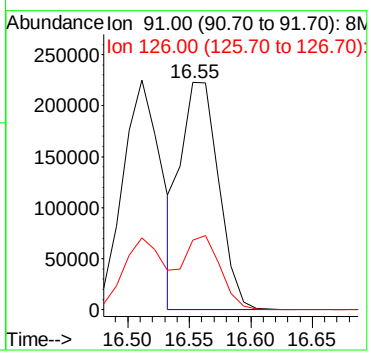


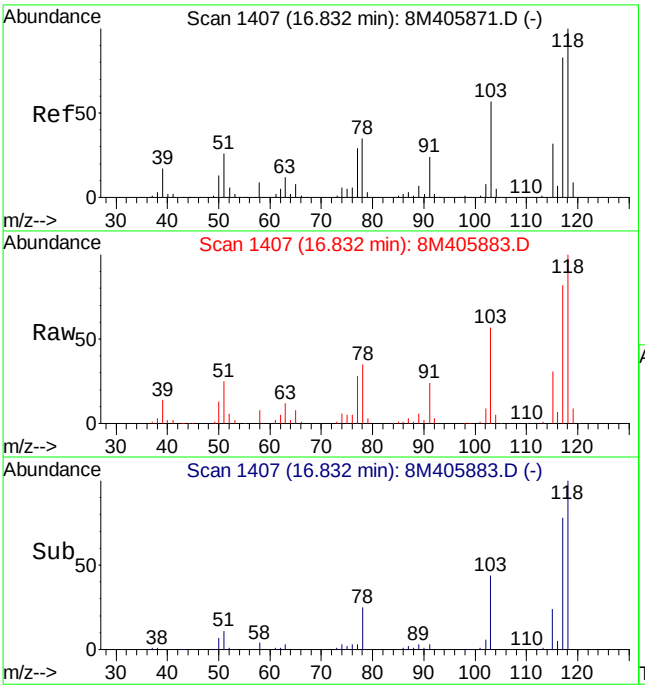


#87
4-Chlorotoluene
Concen: 19.74 ug/L
RT: 16.55 min Scan# 1380
Delta R.T. -0.01 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 91 Resp: 475957

Ion	Ratio	Lower	Upper
91	100		
126	32.2	19.7	45.9

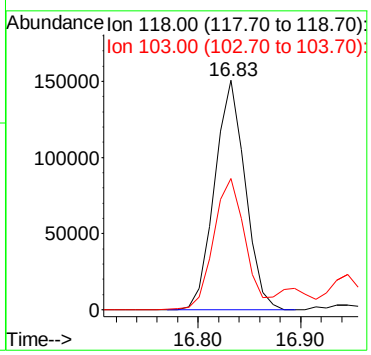


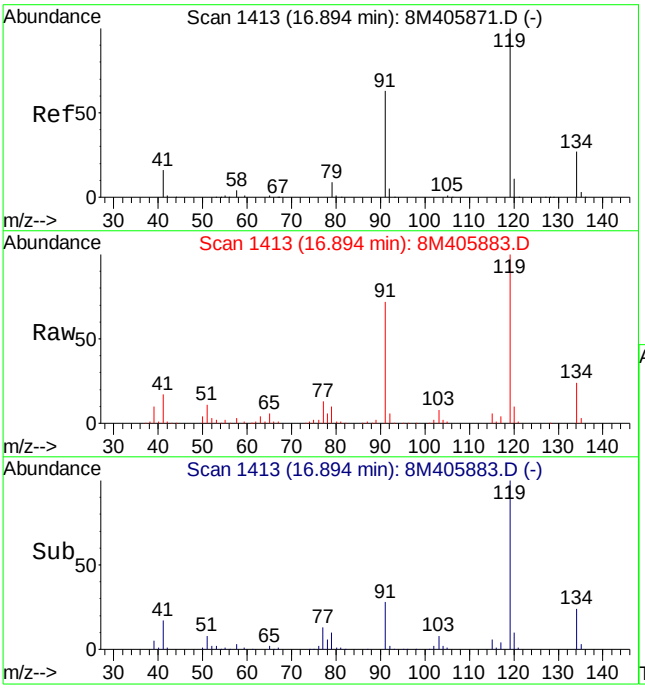


#88
a-Methylstyrene
Concen: 22.38 ug/L
RT: 16.83 min Scan# 1407
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:118 Resp: 312209

Ion	Ratio	Lower	Upper
118	100		
103	60.3	35.9	83.7

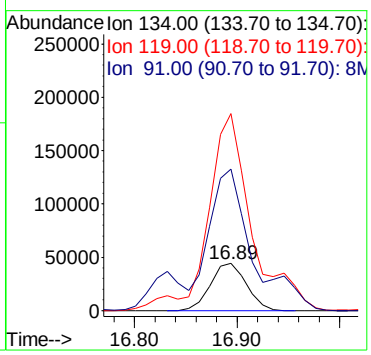


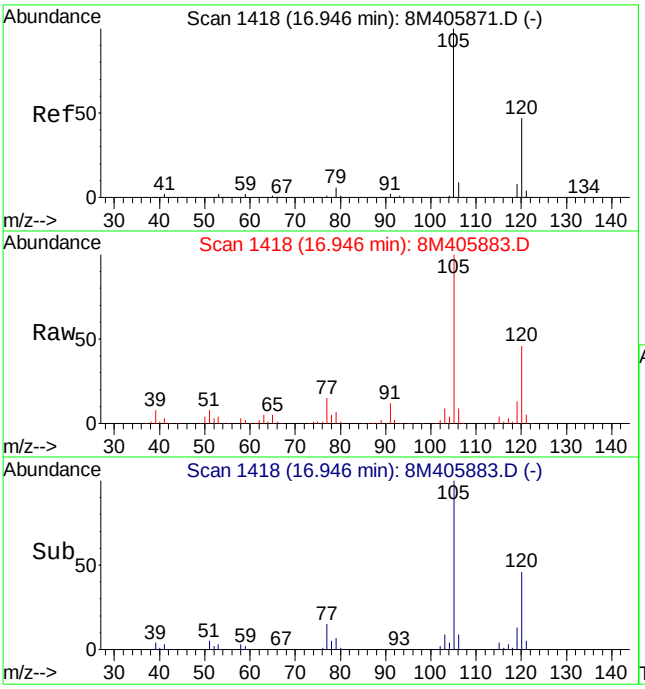


#89
tert-Butylbenzene
Concen: 20.19 ug/L
RT: 16.89 min Scan# 1413
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:134 Resp: 108183

Ion	Ratio	Lower	Upper
134	100		
119	505.2	293.9	685.7
91	359.9	214.9	501.3

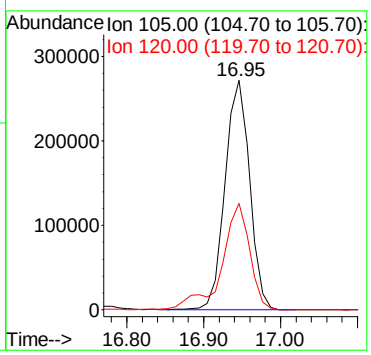


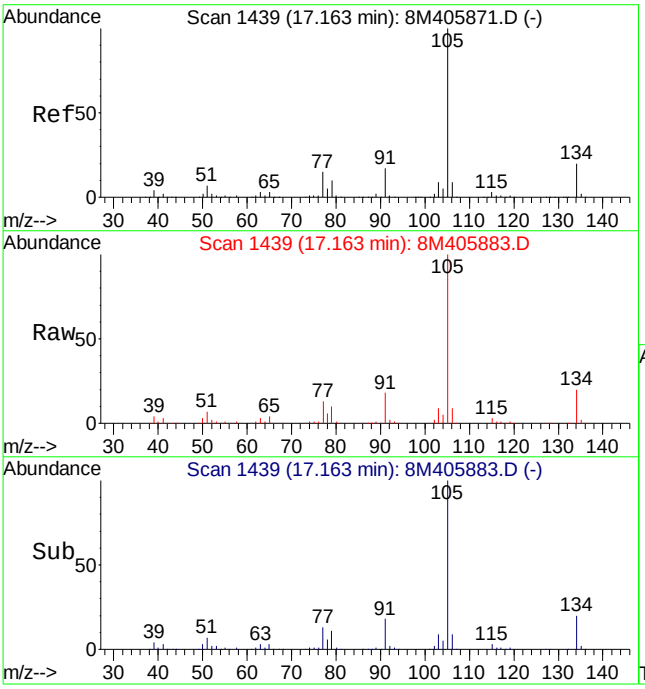


#90
1,2,4-Trimethylbenzene
Concen: 22.49 ug/L
RT: 16.95 min Scan# 1418
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:105 Resp: 602722

Ion	Ratio	Lower	Upper
105	100		
120	52.7	32.3	75.5

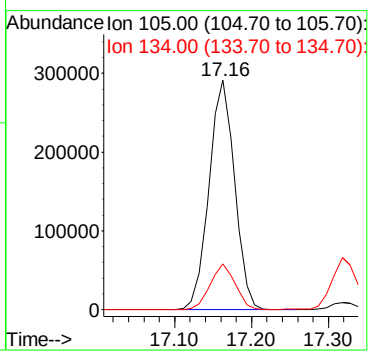


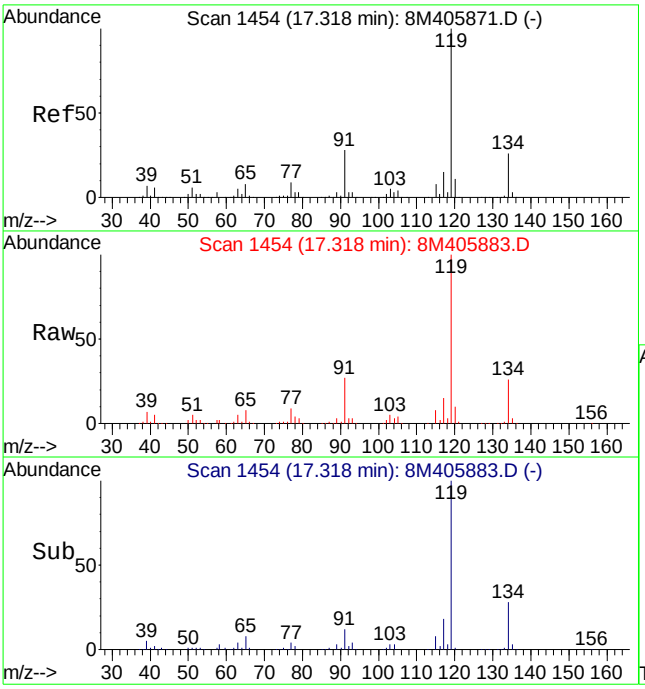


#91
sec-Butylbenzene
Concen: 21.52 ug/L
RT: 17.16 min Scan# 1439
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:105 Resp: 674292

Ion	Ratio	Lower	Upper
105	100		
134	19.4	11.8	27.4

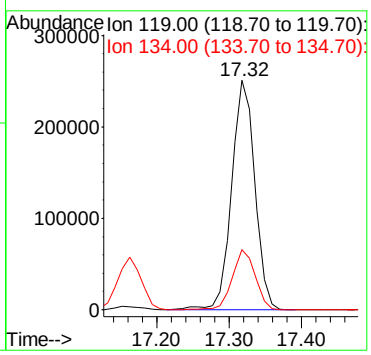


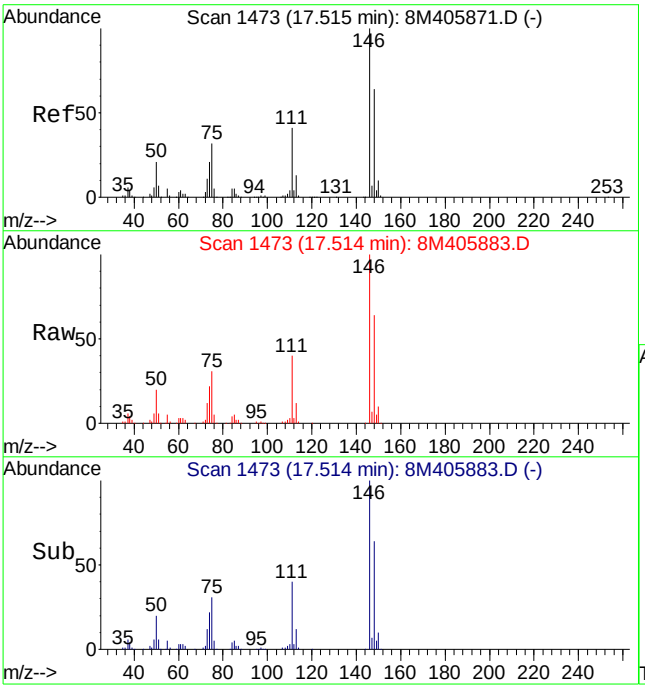


#92
p-Isopropyltoluene
Concen: 20.80 ug/L
RT: 17.32 min Scan# 1454
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:119 Resp: 566418

Ion	Ratio	Lower	Upper
119	100		
134	26.0	15.8	36.8

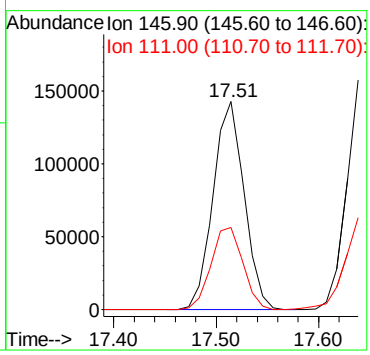


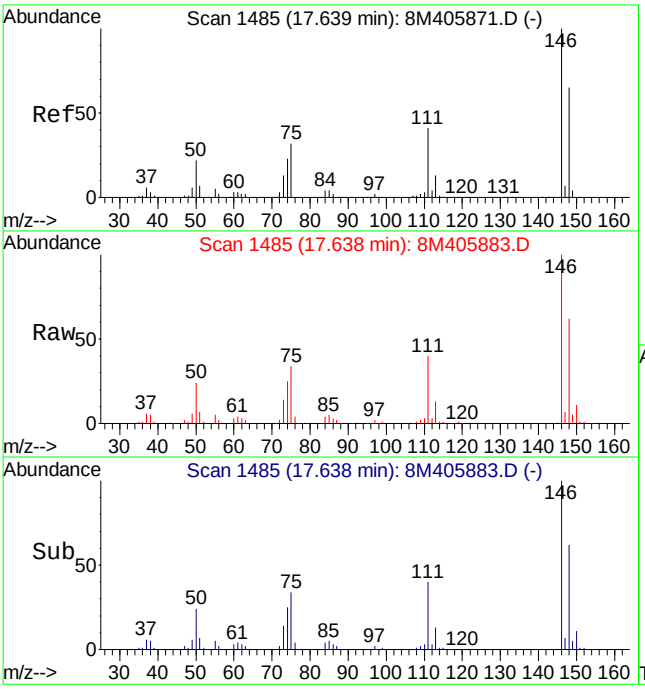


#93
1,3-Dichlorobenzene
Concen: 19.64 ug/L
RT: 17.51 min Scan# 1473
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:146 Resp: 300667

Ion	Ratio	Lower	Upper
146	100		
111	40.6	25.0	58.2

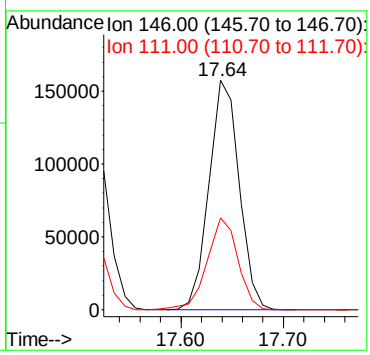


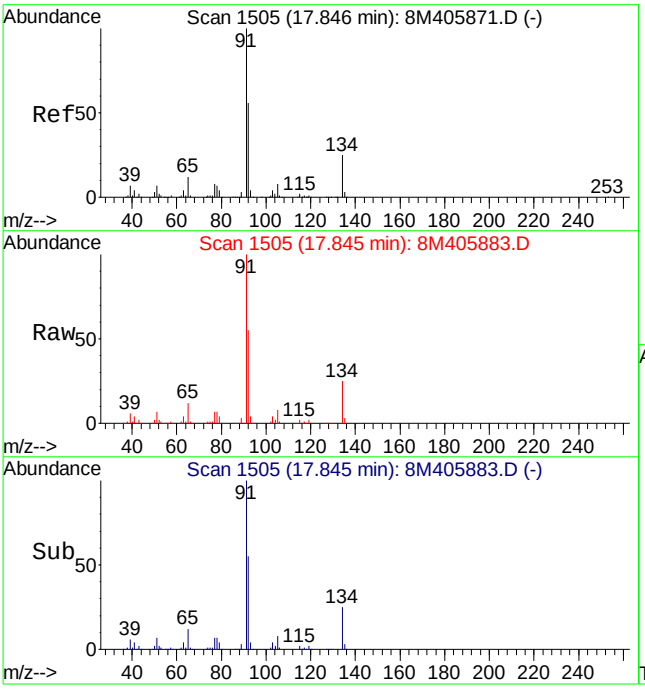


#94
1,4-Dichlorobenzene
Concen: 20.65 ug/L
RT: 17.64 min Scan# 1485
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:146 Resp: 322644

Ion	Ratio	Lower	Upper
146	100		
111	41.0	24.7	57.7

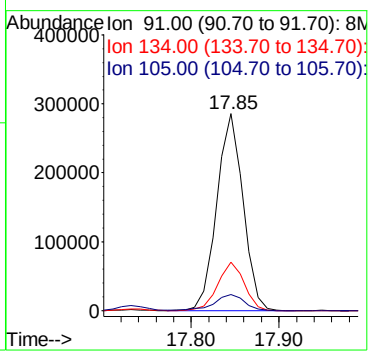


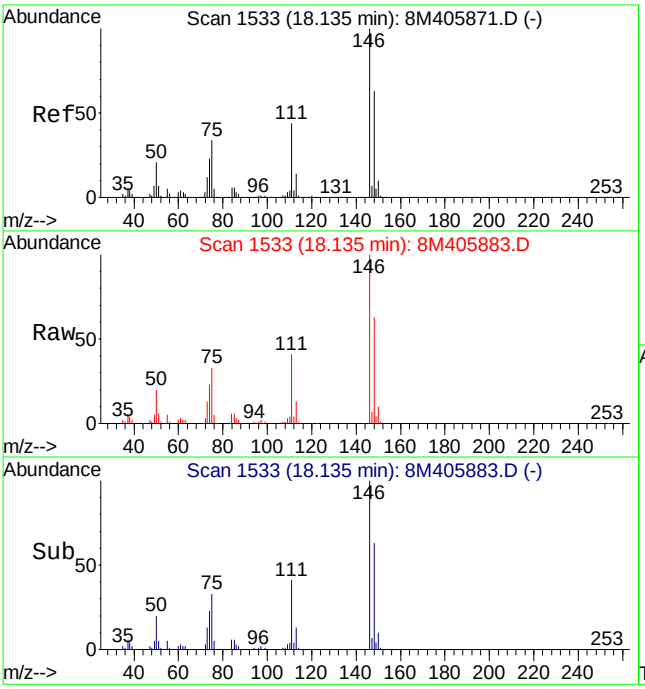


#95
n-Butylbenzene
Concen: 22.24 ug/L
RT: 17.85 min Scan# 1505
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 91 Resp: 593901

Ion	Ratio	Lower	Upper
91	100		
134	24.8	14.4	33.6
105	9.3	5.0	11.8

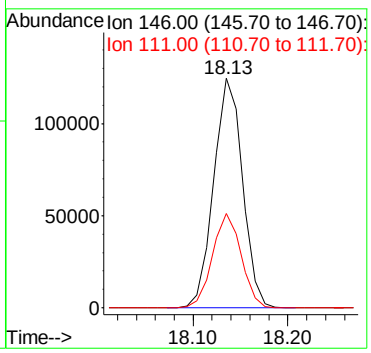


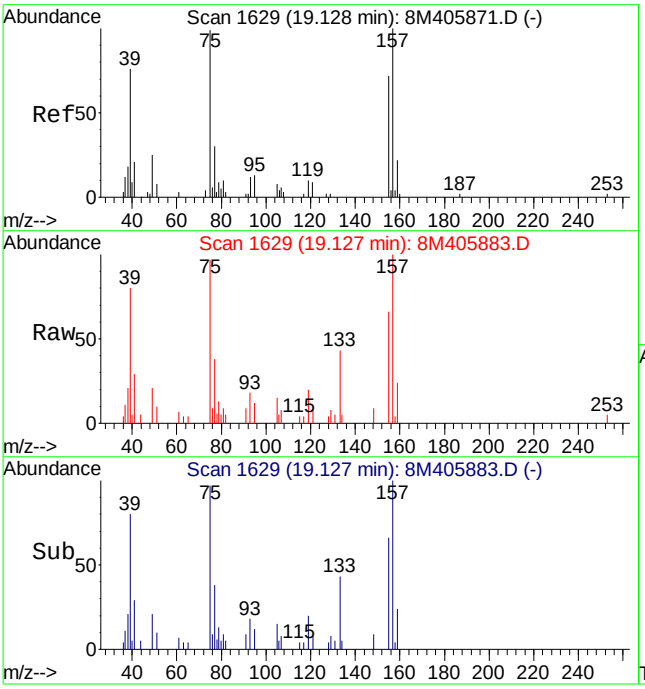


#96
1,2-Dichlorobenzene
Concen: 19.36 ug/L
RT: 18.13 min Scan# 1533
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:146 Resp: 264693

Ion	Ratio	Lower	Upper
146	100		
111	40.9	25.5	59.5

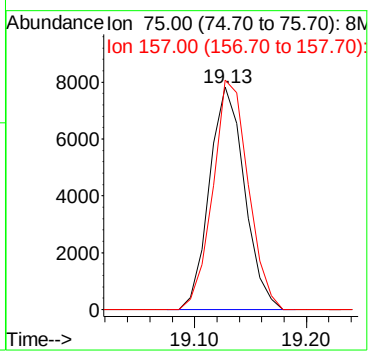


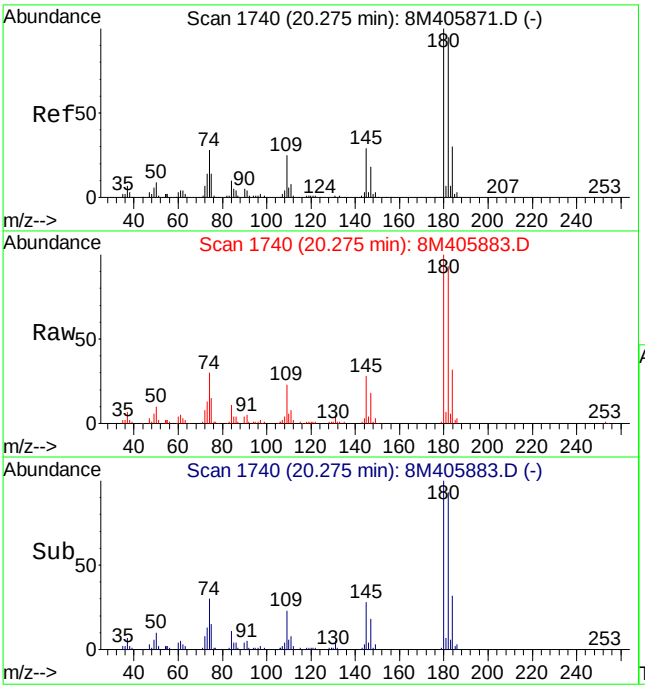


#97
1,2-Dibromo-3-Chloropropane
Concen: 20.58 ug/L
RT: 19.13 min Scan# 1629
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion: 75 Resp: 17038

Ion	Ratio	Lower	Upper
75	100		
157	104.1	61.0	142.4

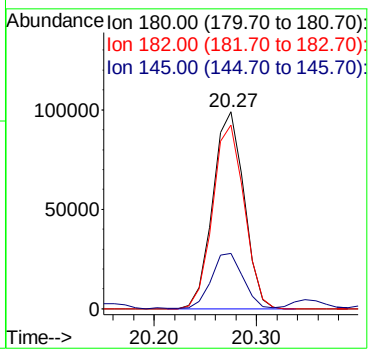


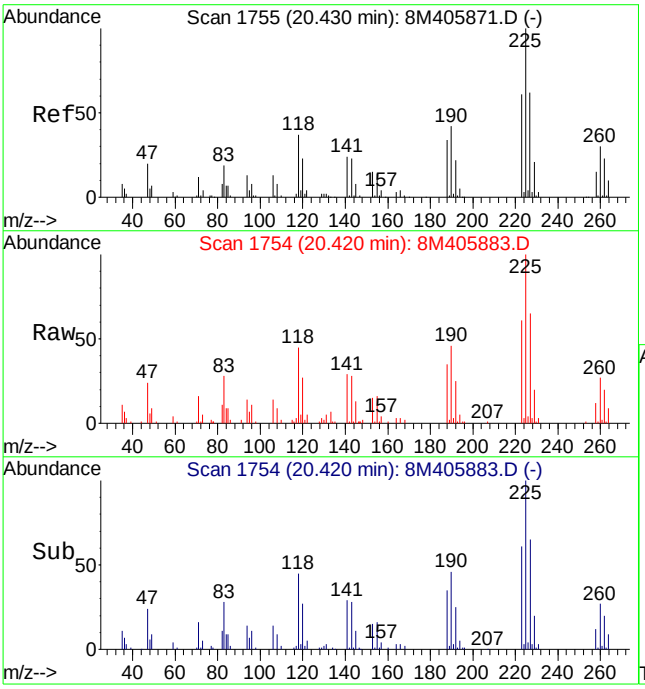


#98
1,2,4-Trichlorobenzene
Concen: 20.52 ug/L
RT: 20.27 min Scan# 1740
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:180 Resp: 210102

Ion	Ratio	Lower	Upper
180	100		
182	94.0	57.1	133.1
145	29.1	18.0	42.0

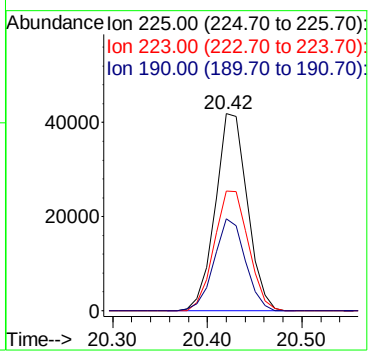


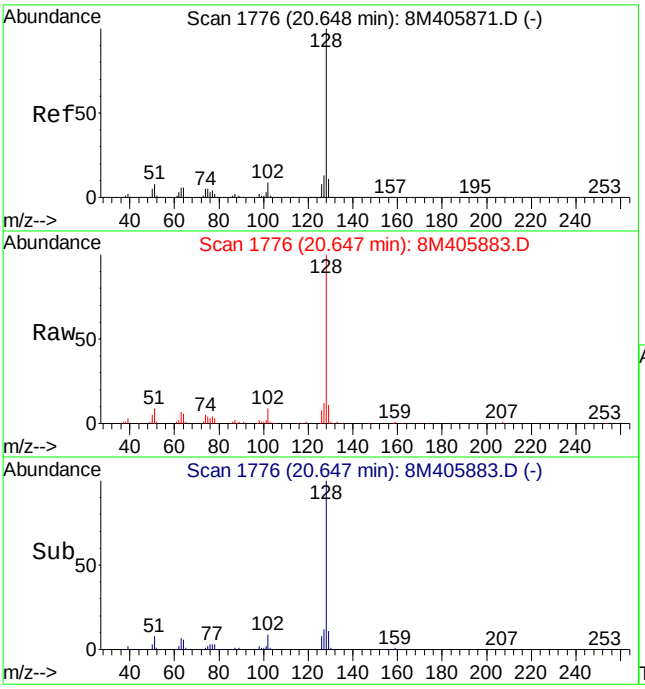


#99
Hexachlorobutadiene
Concen: 19.31 ug/L
RT: 20.42 min Scan# 1754
Delta R.T. -0.01 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:225 Resp: 99136

Ion	Ratio	Lower	Upper
225	100		
223	64.7	37.4	87.4
190	45.4	26.6	62.2

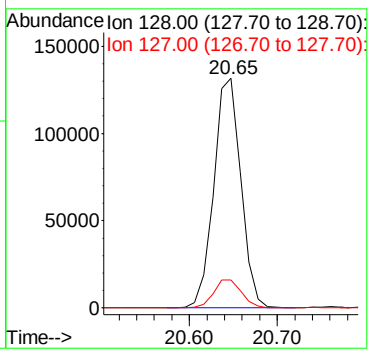


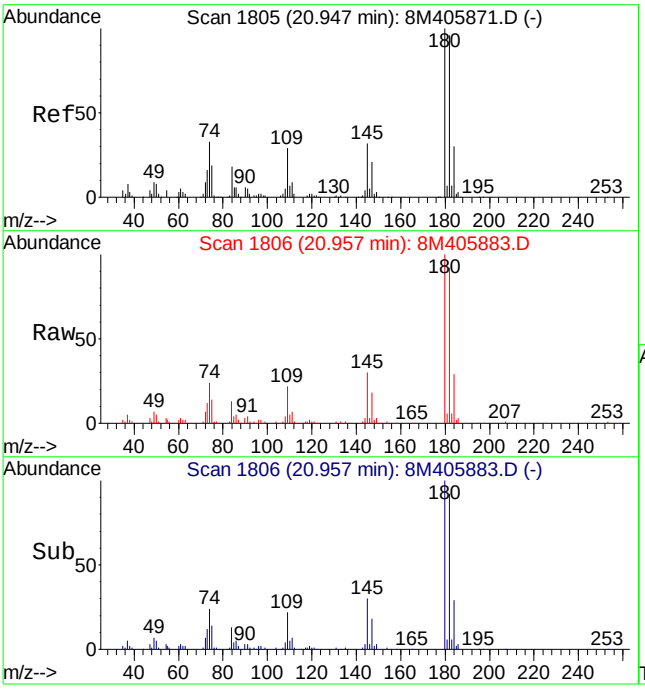


#100
Naphthalene
Concen: 20.87 ug/L
RT: 20.65 min Scan# 1776
Delta R.T. -0.00 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:128 Resp: 281745

Ion	Ratio	Lower	Upper
128	100		
127	12.6	8.0	18.6

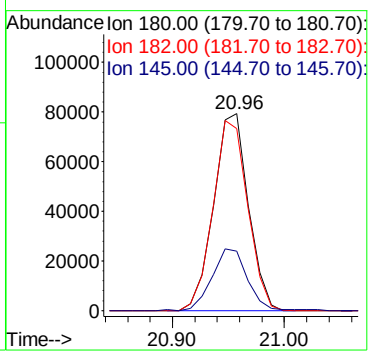




#101
1,2,3-Trichlorobenzene
Concen: 19.20 ug/L
RT: 20.96 min Scan# 1806
Delta R.T. 0.01 min
Lab File: 8M405883.D
Acq: 3 Jul 2015 17:06

Tgt Ion:180 Resp: 170979

Ion	Ratio	Lower	Upper
180	100		
182	96.5	58.3	135.9
145	32.1	18.2	42.4



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405889.D Vial: 13
Acq On : 3 Jul 2015 19:57 Operator: ADC/ JDS
Sample : L15061450-06 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:26 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

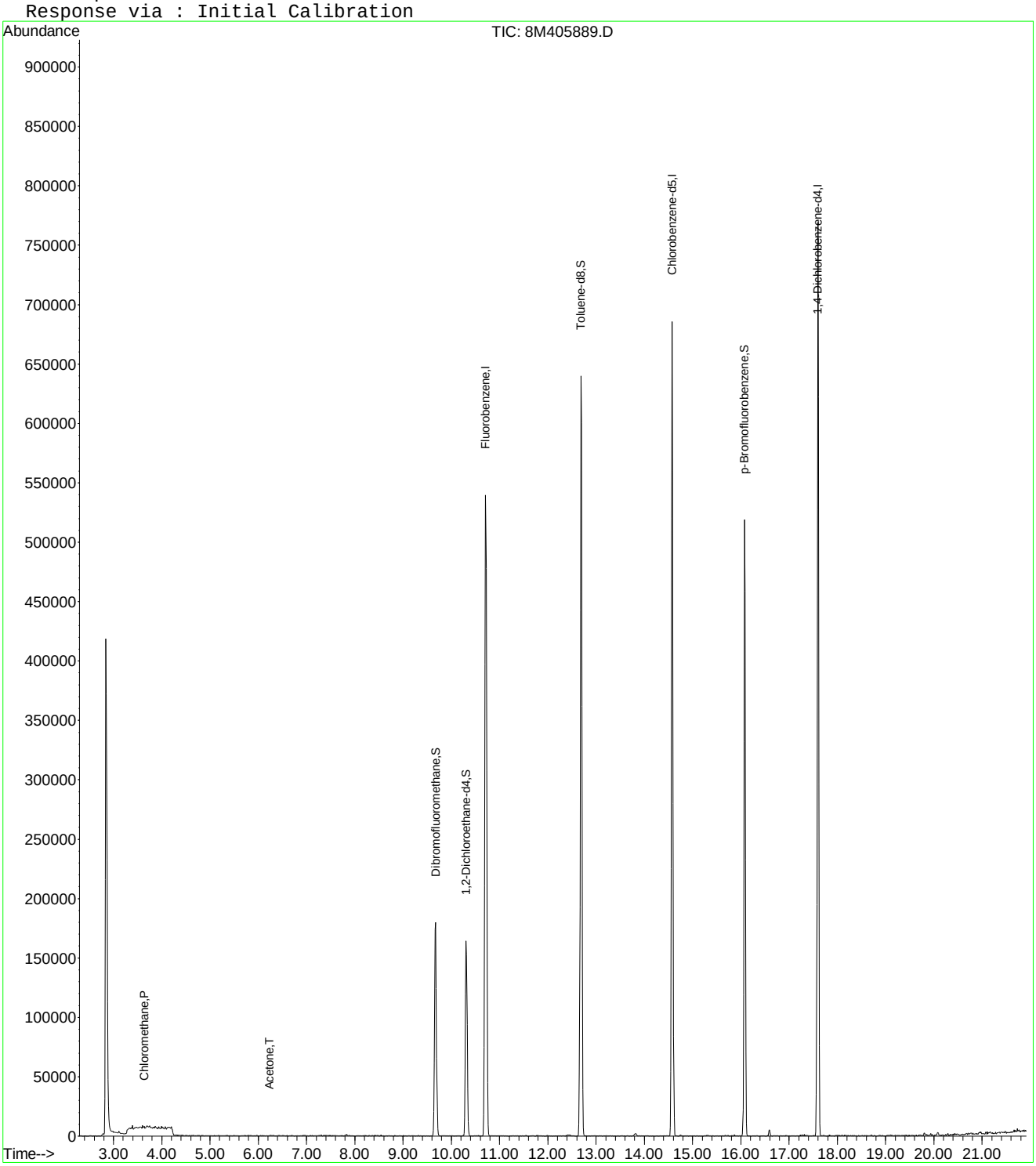
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	625526	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	447268	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	238060	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.68	111	147361	25.3926	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.56%			
43) 1,2-Dichloroethane-d4	10.31	65	148373	26.1391	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 104.56%			
58) Toluene-d8	12.68	98	565804	25.5732	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.28%			
80) p-Bromofluorobenzene	16.08	95	215079	25.2881	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.16%			
Target Compounds						Qvalue
3) Chloromethane	3.64	50	3219	0.2620	ug/L	89
13) Acetone	6.23	43	1035	1.3468	ug/L #	48

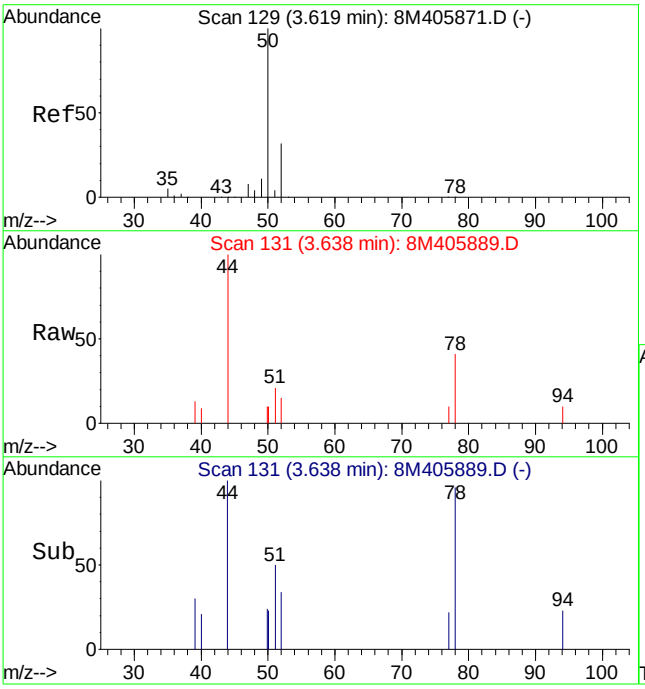
(#) = qualifier out of range (m) = manual integration
8M405889.D 8260WT.M Mon Jul 06 10:26:26 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405889.D Vial: 13
Acq On : 3 Jul 2015 19:57 Operator: ADC/ JDS
Sample : L15061450-06 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

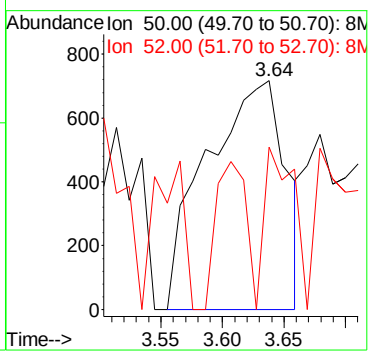


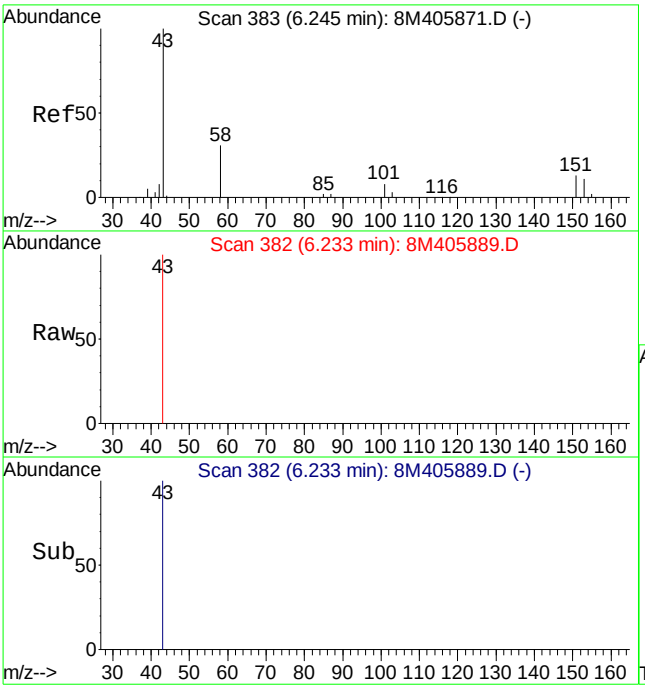


#3
Chloromethane
Concen: 0.26 ug/L
RT: 3.64 min Scan# 131
Delta R.T. 0.02 min
Lab File: 8M405889.D
Acq: 3 Jul 2015 19:57

Tgt Ion: 50 Resp: 3219

Ion	Ratio	Lower	Upper
50	100		
52	26.1	19.2	44.8

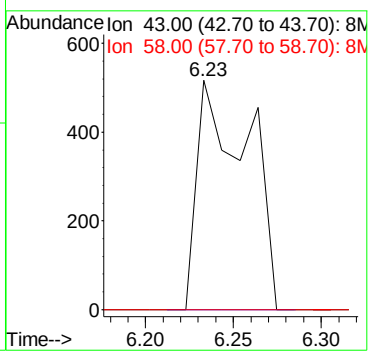




#13
Acetone
Concen: 1.35 ug/L
RT: 6.23 min Scan# 382
Delta R.T. -0.01 min
Lab File: 8M405889.D
Acq: 3 Jul 2015 19:57

Tgt Ion: 43 Resp: 1035

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405890.D Vial: 14
Acq On : 3 Jul 2015 20:26 Operator: ADC/ JDS
Sample : L15061450-07 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:27 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

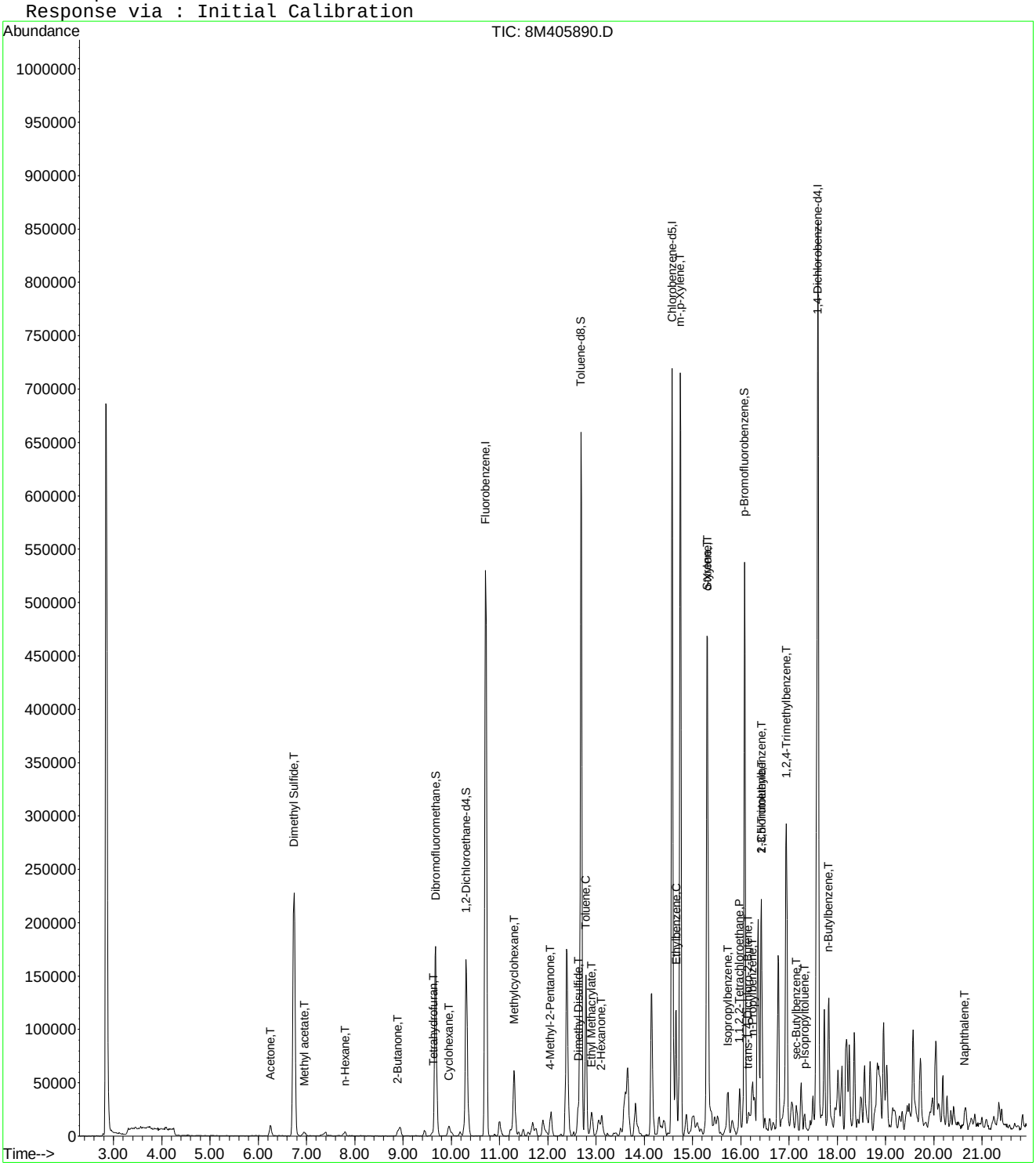
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	619383	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.58	117	448525	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	243812	25.00	ug/L		0.00
System Monitoring Compounds							
37) Dibromofluoromethane	9.68	111	142118	24.7321	ug/L		0.01
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.92%				
43) 1,2-Dichloroethane-d4	10.31	65	141107	25.1055	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 100.44%				
58) Toluene-d8	12.69	98	566997	25.5553	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.24%				
80) p-Bromofluorobenzene	16.08	95	215840	24.7789	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.12%				
Target Compounds							Qvalue
13) Acetone	6.26	43	20538	26.9902	ug/L		96
16) Dimethyl Sulfide	6.74	62	170758	34.6405	ug/L		99
18) Methyl acetate	6.96	43	5196	1.7196	ug/L	#	64
24) n-Hexane	7.81	57	3609	0.4171	ug/L		90
29) 2-Butanone	8.89	43	10027	7.8016	ug/L	#	82
36) Tetrahydrofuran	9.64	42	406	0.4729	ug/L	#	13
39) Cyclohexane	9.96	56	10383	1.4131	ug/L		83
48) Methylcyclohexane	11.30	83	36586	4.0056	ug/L		93
54) 4-Methyl-2-Pentanone	12.06	58	8459	7.2808	ug/L		95
56) Dimethyl Disulfide	12.63	79	7659	1.6080	ug/L		84
59) Toluene	12.79	91	141336	5.7223	ug/L		99
60) Ethyl Methacrylate	12.91	69	3763	0.8260	ug/L	#	1
64) 2-Hexanone	13.11	58	6156	5.5815	ug/L	#	51
72) Ethylbenzene	14.66	106	29133	3.1269	ug/L		88
73) m-,p-Xylene	14.74	106	260818	23.7695	ug/L		95
74) o-Xylene	15.31	106	167136	15.7031	ug/L		99
75) Styrene	15.30	104	7790	0.4554	ug/L	#	1
77) Isopropylbenzene	15.74	105	34299	1.2846	ug/L		99
79) 1,1,2,2-Tetrachloroethane	15.97	83	2568	0.6242	ug/L	#	53
82) trans-1,4-Dichloro-2-Buten	16.15	53	978	1.1832	ug/L	#	9
83) n-Propylbenzene	16.24	91	36864	1.1125	ug/L		96
85) 1,3,5-Trimethylbenzene	16.43	105	148343	6.4188	ug/L		96
86) 2-Chlorotoluene	16.43	91	18514	0.8848	ug/L	#	42
90) 1,2,4-Trimethylbenzene	16.95	105	204559	8.6833	ug/L		90
91) sec-Butylbenzene	17.15	105	22820	0.8286	ug/L		100
92) p-Isopropyltoluene	17.32	119	14651	0.6122	ug/L		98
95) n-Butylbenzene	17.83	91	29415	1.2534	ug/L	#	1
100) Naphthalene	20.64	128	8884	0.7487	ug/L		98

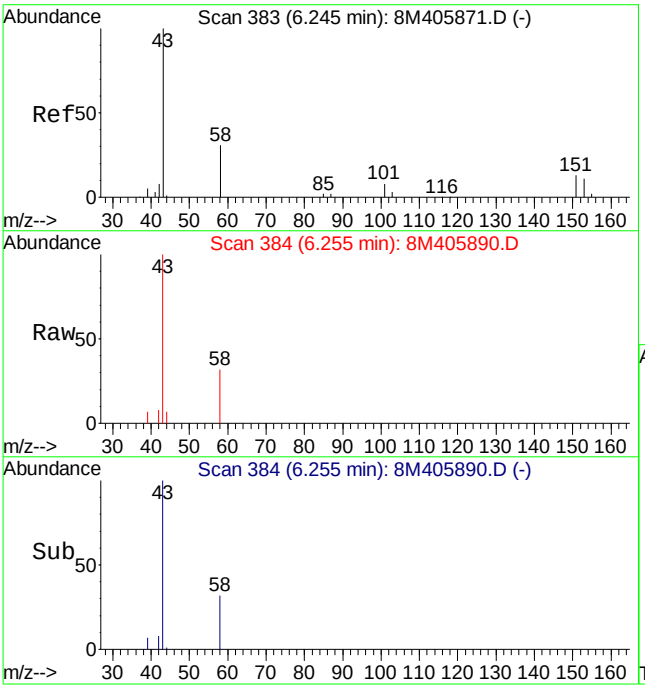
(#) = qualifier out of range (m) = manual integration
8M405890.D 8260WT.M Mon Jul 06 10:26:27 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405890.D Vial: 14
Acq On : 3 Jul 2015 20:26 Operator: ADC/ JDS
Sample : L15061450-07 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

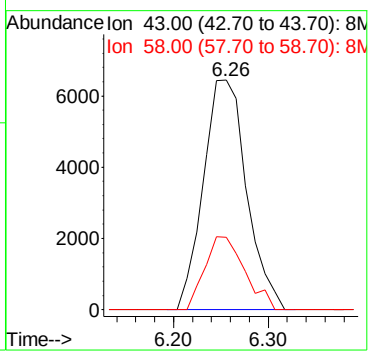


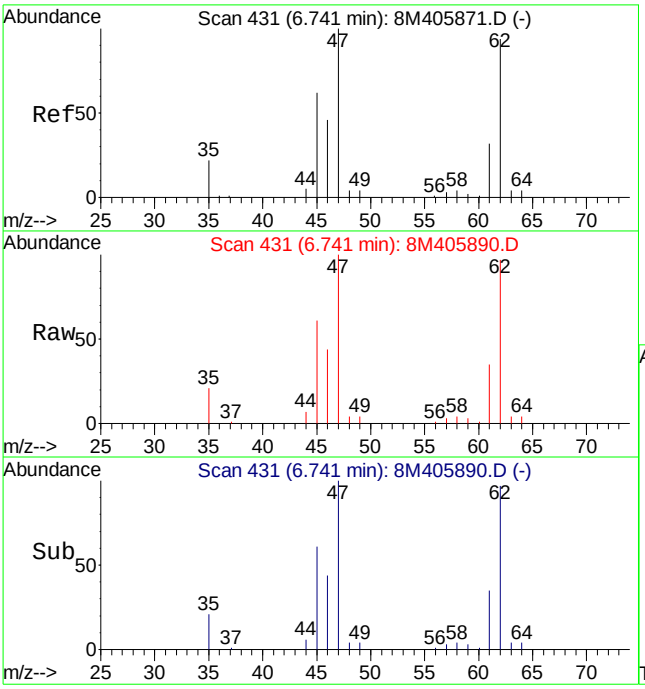


#13
Acetone
Concen: 26.99 ug/L
RT: 6.26 min Scan# 384
Delta R.T. 0.01 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 43 Resp: 20538

Ion	Ratio	Lower	Upper
43	100		
58	29.3	16.4	38.2

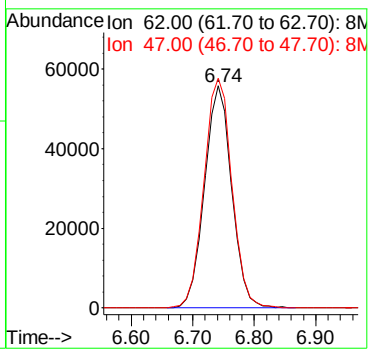


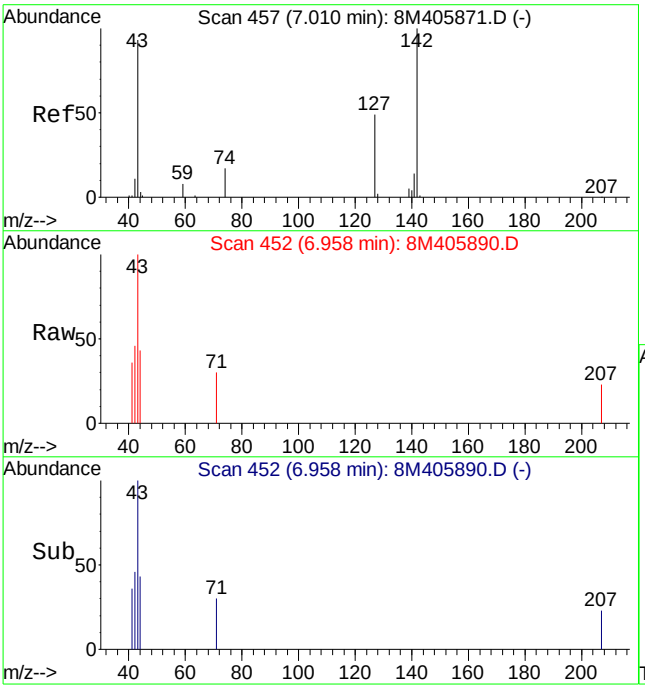


#16
Dimethyl Sulfide
Concen: 34.64 ug/L
RT: 6.74 min Scan# 431
Delta R.T. 0.00 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 62 Resp: 170758

Ion	Ratio	Lower	Upper
62	100		
47	106.3	64.3	149.9

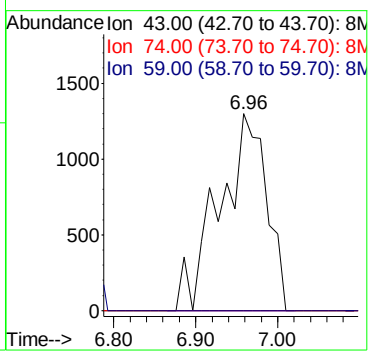


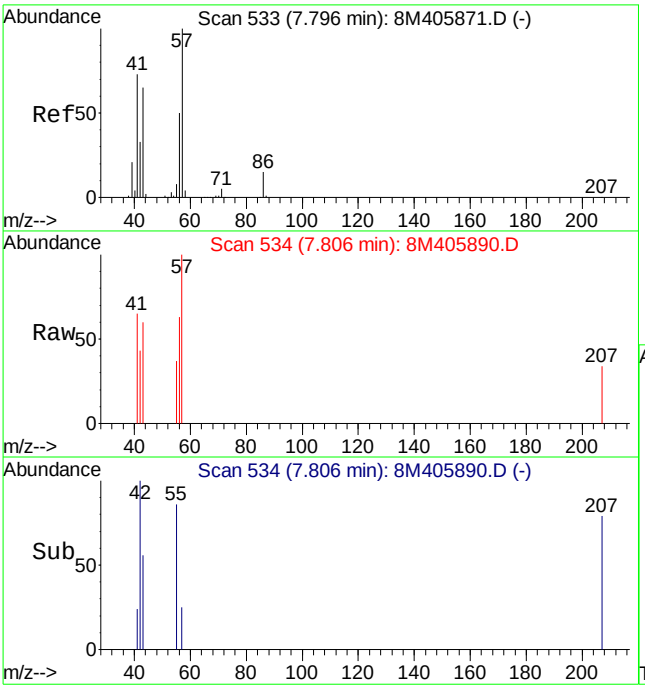


#18
Methyl acetate
Concen: 1.72 ug/L
RT: 6.96 min Scan# 452
Delta R.T. -0.05 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 43 Resp: 5196

Ion	Ratio	Lower	Upper
43	100		
74	0.0	11.2	26.2#
59	0.0	4.7	11.1#

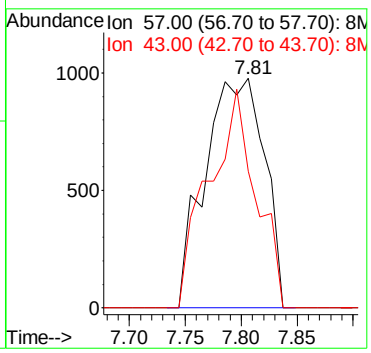


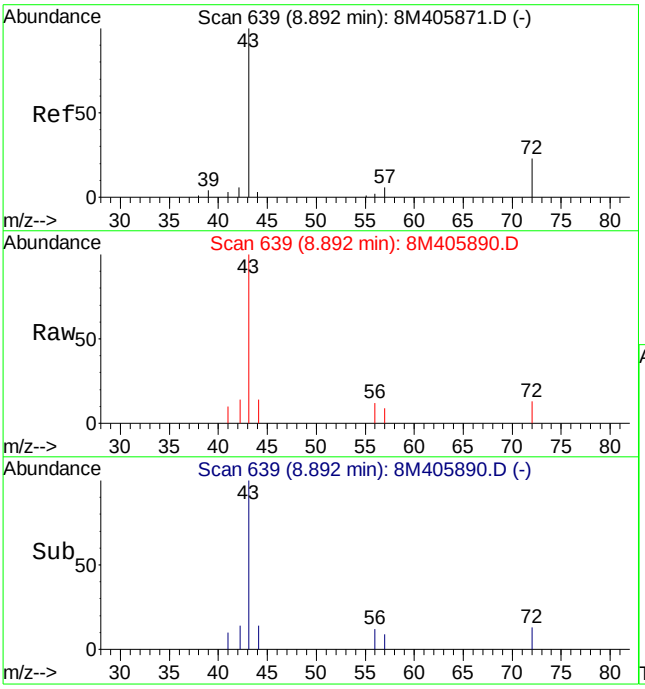


#24
n-Hexane
Concen: 0.42 ug/L
RT: 7.81 min Scan# 534
Delta R.T. 0.01 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 57 Resp: 3609

Ion	Ratio	Lower	Upper
57	100		
43	75.6	40.6	94.6

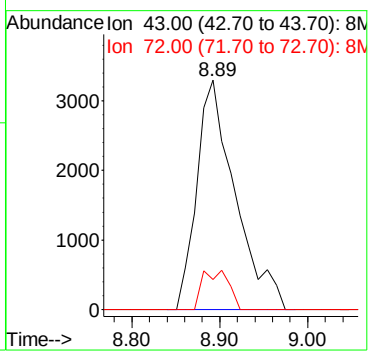


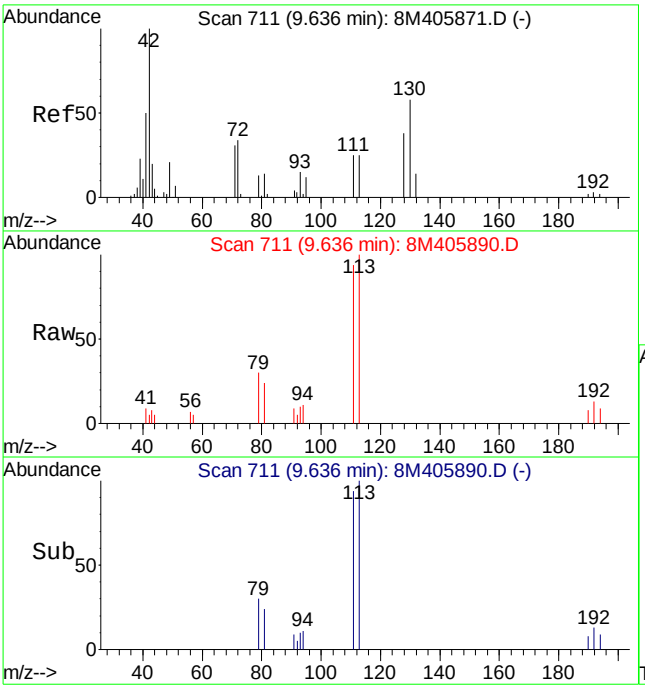


#29
2-Butanone
Concen: 7.80 ug/L
RT: 8.89 min Scan# 639
Delta R.T. 0.00 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 43 Resp: 10027

Ion	Ratio	Lower	Upper
43	100		
72	11.8	11.9	27.9#

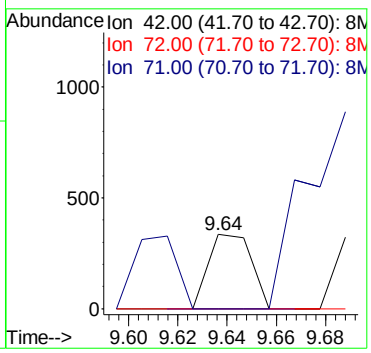


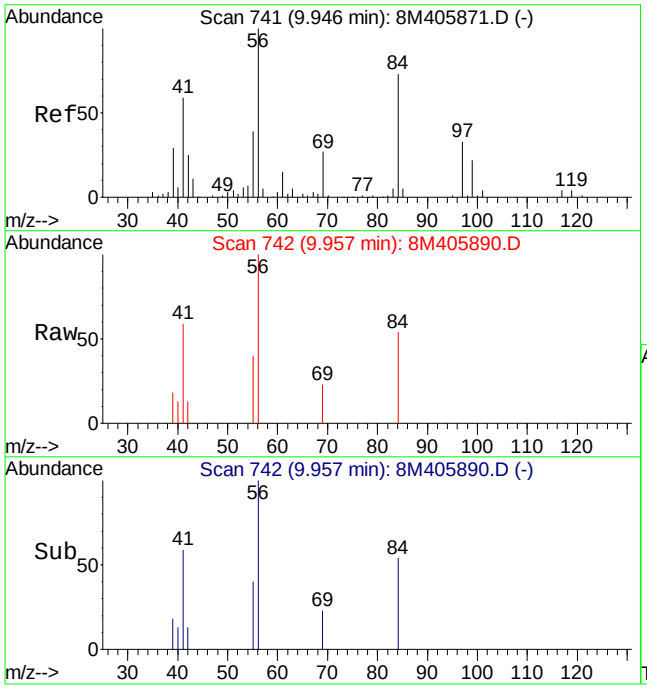


#36
Tetrahydrofuran
Concen: 0.47 ug/L
RT: 9.64 min Scan# 711
Delta R.T. 0.00 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 42 Resp: 406

Ion	Ratio	Lower	Upper
42	100		
72	0.0	22.4	52.4#
71	97.8	19.5	45.5#

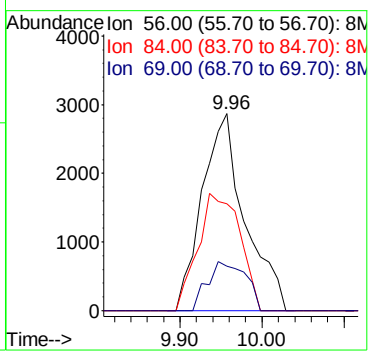


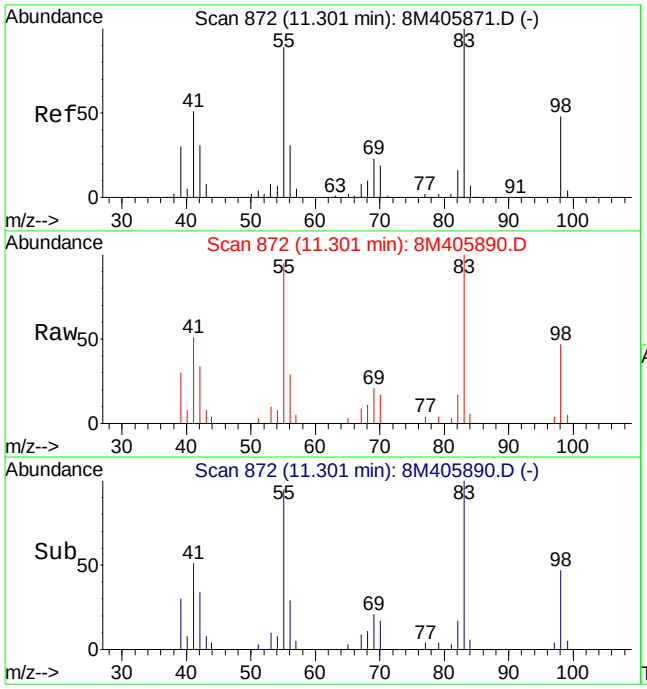


#39
Cyclohexane
Concen: 1.41 ug/L
RT: 9.96 min Scan# 742
Delta R.T. 0.01 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 56 Resp: 10383

Ion	Ratio	Lower	Upper
56	100		
84	58.5	45.4	105.8
69	22.2	15.8	37.0

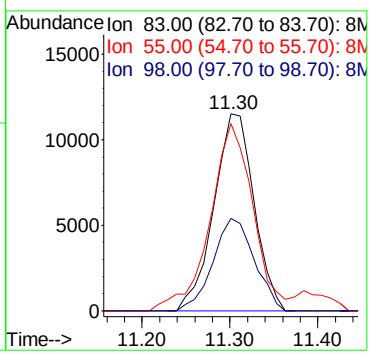


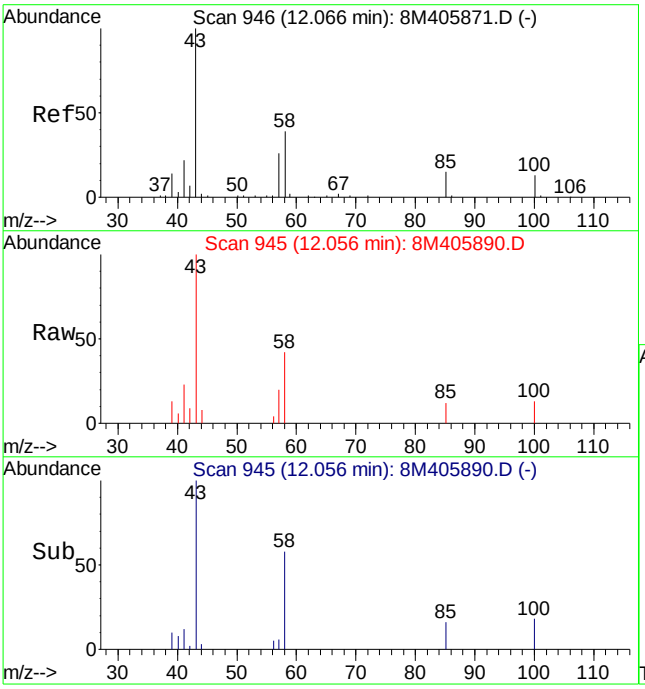


#48
Methylcyclohexane
Concen: 4.01 ug/L
RT: 11.30 min Scan# 872
Delta R.T. 0.00 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 83 Resp: 36586

Ion	Ratio	Lower	Upper
83	100		
55	101.0	54.8	128.0
98	48.2	29.0	67.8

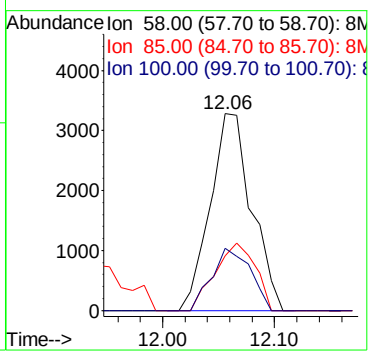


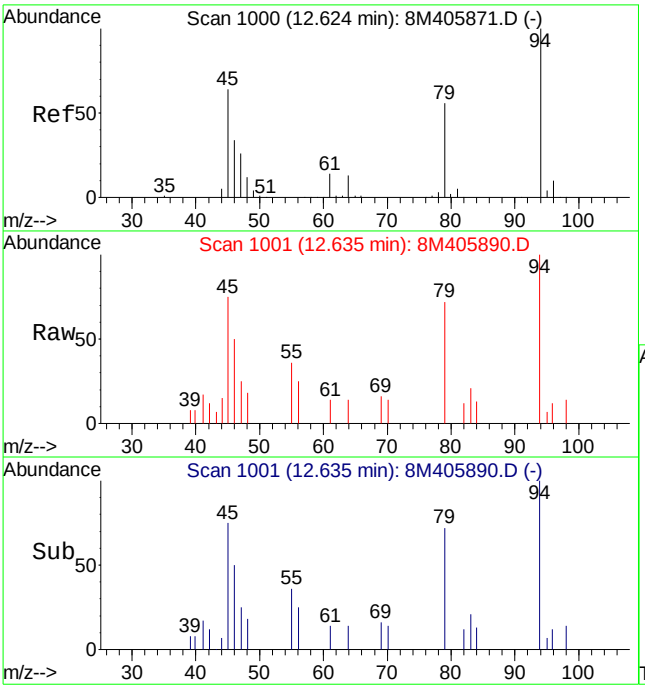


#54
4-Methyl-2-Pentanone
Concen: 7.28 ug/L
RT: 12.06 min Scan# 945
Delta R.T. -0.01 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 58 Resp: 8459

Ion	Ratio	Lower	Upper
58	100		
85	33.2	21.8	51.0
100	29.6	19.4	45.4

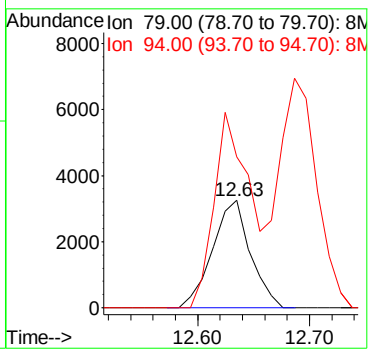


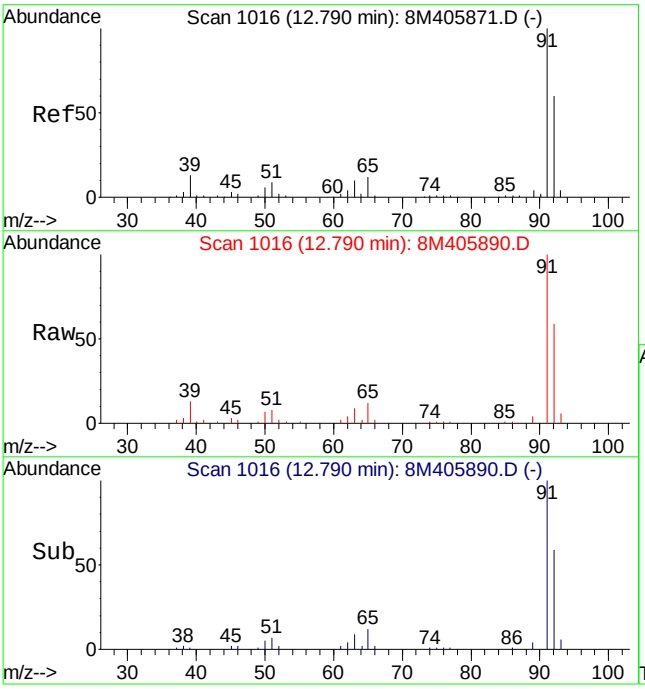


#56
Dimethyl Disulfide
Concen: 1.61 ug/L
RT: 12.63 min Scan# 1001
Delta R.T. 0.01 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 79 Resp: 7659

Ion	Ratio	Lower	Upper
79	100		
94	168.3	114.7	267.7

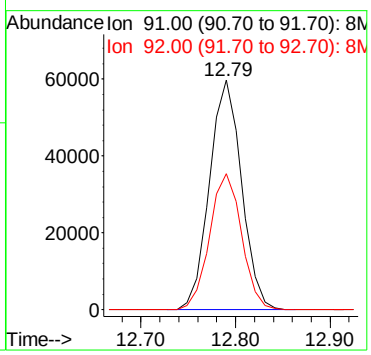


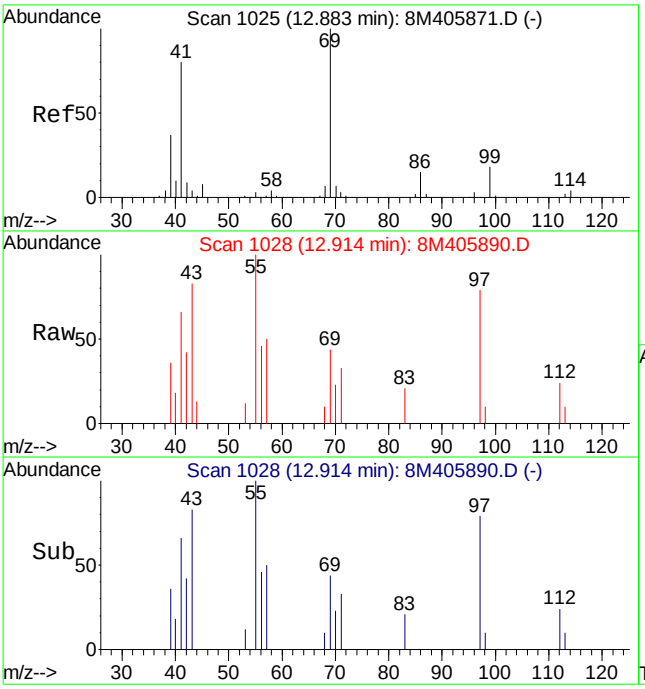


#59
Toluene
Concen: 5.72 ug/L
RT: 12.79 min Scan# 1016
Delta R.T. 0.00 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 91 Resp: 141336

Ion	Ratio	Lower	Upper
91	100		
92	59.0	35.7	83.3

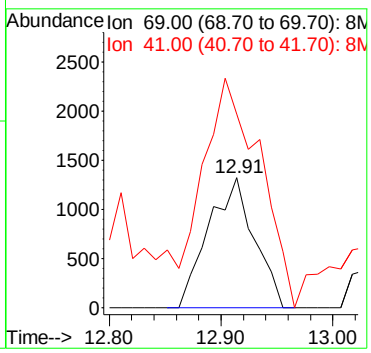


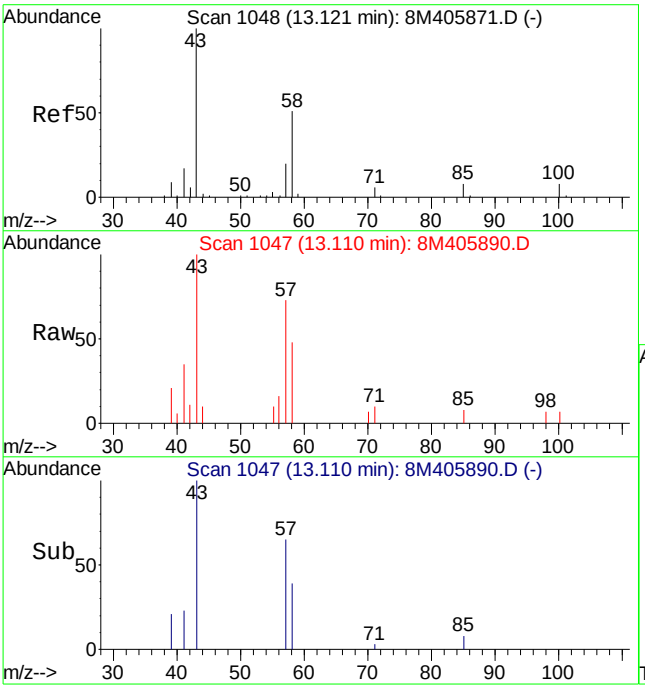


#60
Ethyl Methacrylate
Concen: 0.83 ug/L
RT: 12.91 min Scan# 1028
Delta R.T. 0.03 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 69 Resp: 3763

Ion	Ratio	Lower	Upper
69	100		
41	218.1	48.5	113.3#

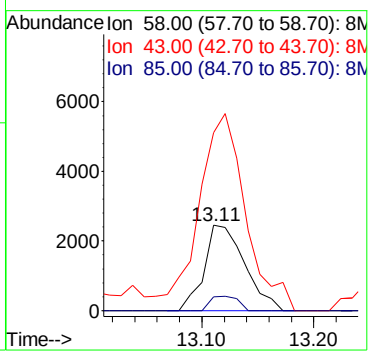


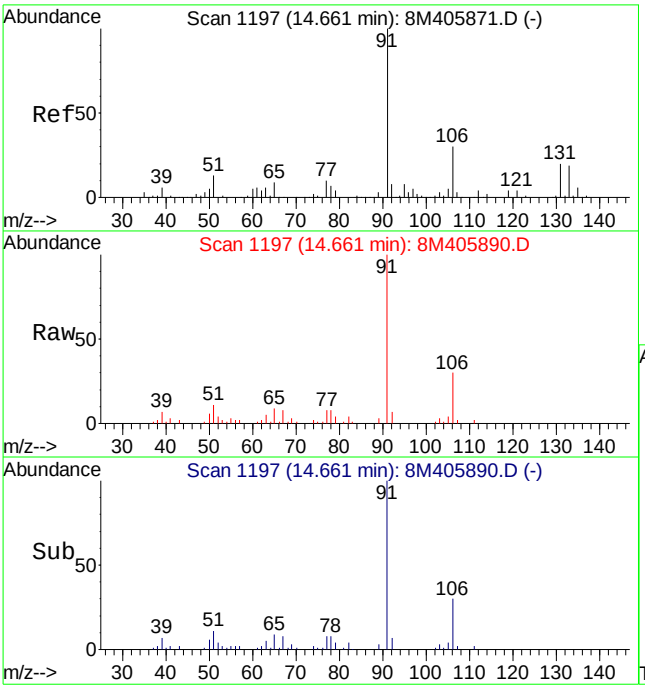


#64
2-Hexanone
Concen: 5.58 ug/L
RT: 13.11 min Scan# 1047
Delta R.T. -0.01 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 58 Resp: 6156

Ion	Ratio	Lower	Upper
58	100		
43	267.1	116.8	272.4
85	11.6	0.0	0.0#

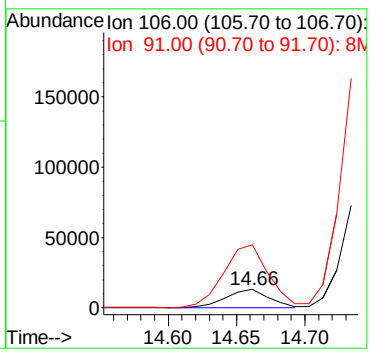


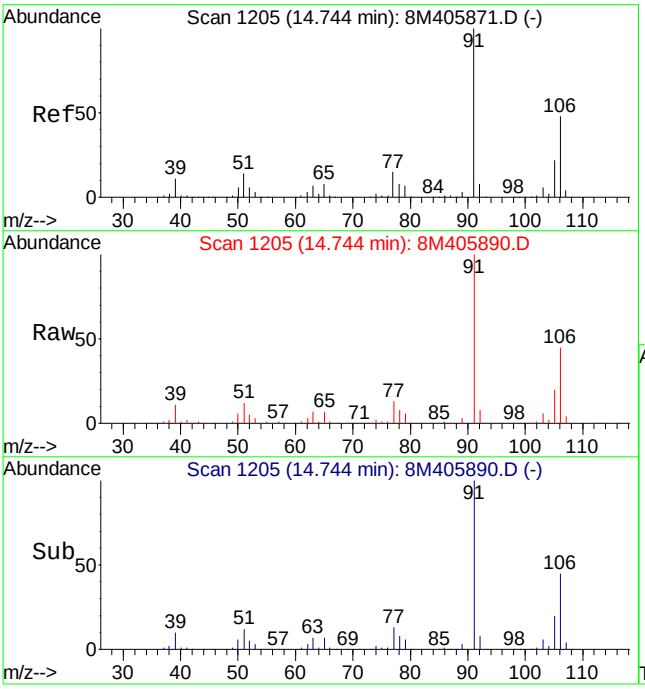


#72
Ethylbenzene
Concen: 3.13 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. 0.00 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion:106 Resp: 29133

Ion	Ratio	Lower	Upper
106	100		
91	357.2	199.7	466.1

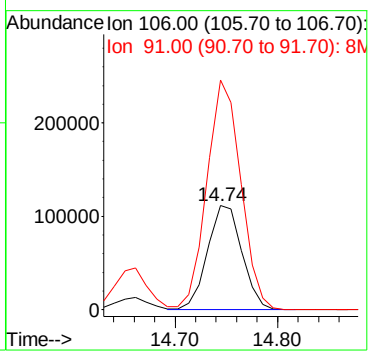


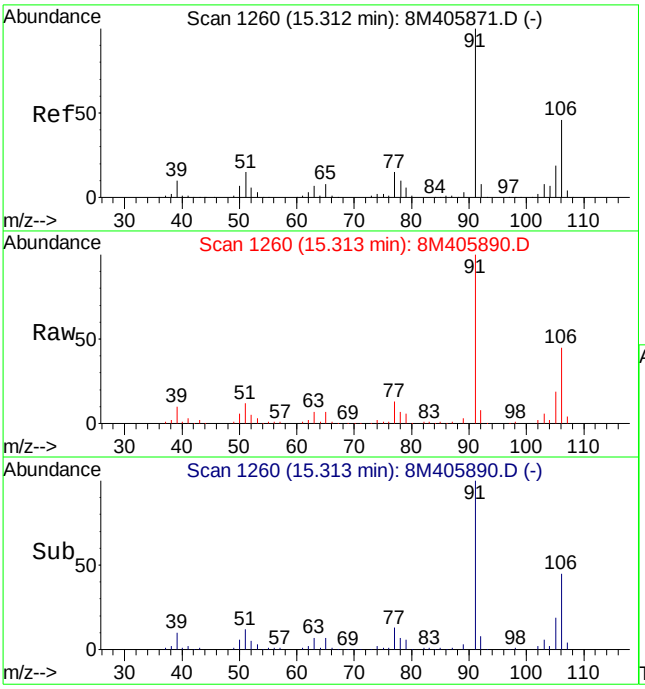


#73
m-,p-Xylene
Concen: 23.77 ug/L
RT: 14.74 min Scan# 1205
Delta R.T. 0.00 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion:106 Resp: 260818

Ion	Ratio	Lower	Upper
106	100		
91	216.3	125.1	291.9

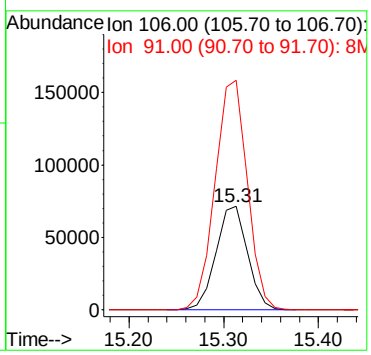


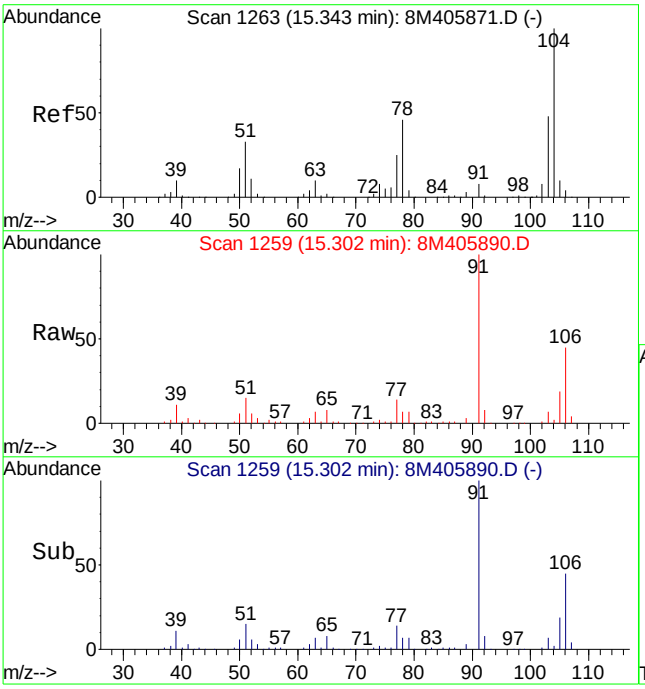


#74
o-Xylene
Concen: 15.70 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. 0.00 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion:106 Resp: 167136

Ion	Ratio	Lower	Upper
106	100		
91	226.1	134.3	313.5

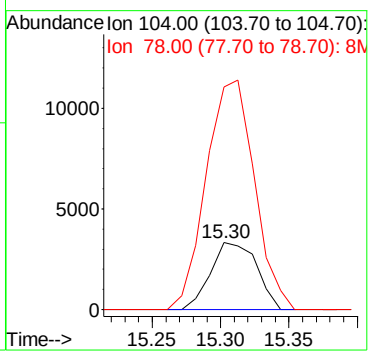


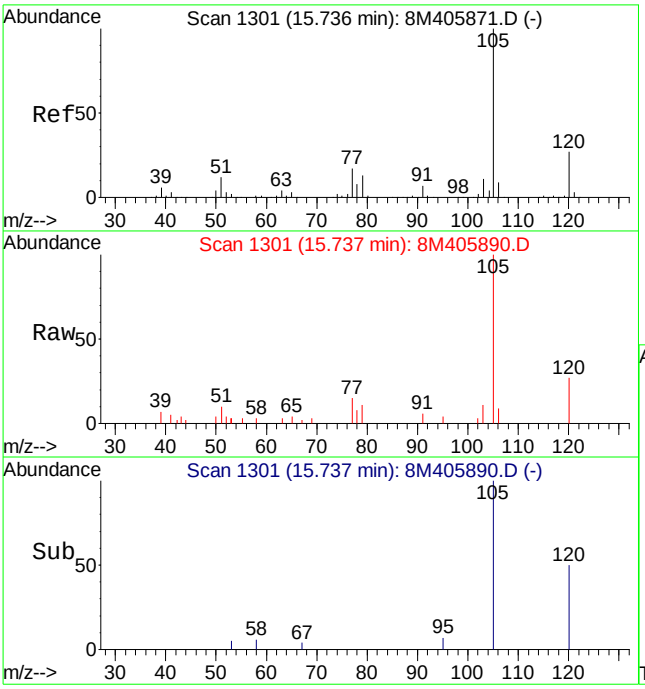


#75
Styrene
Concen: 0.46 ug/L
RT: 15.30 min Scan# 1259
Delta R.T. -0.04 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion:104 Resp: 7790

Ion	Ratio	Lower	Upper
104	100		
78	358.5	32.9	76.7#

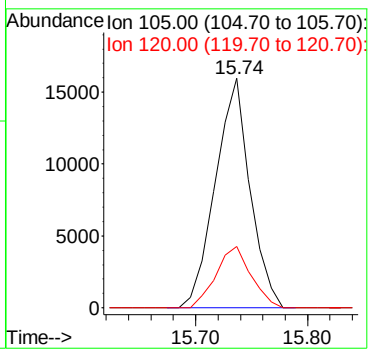


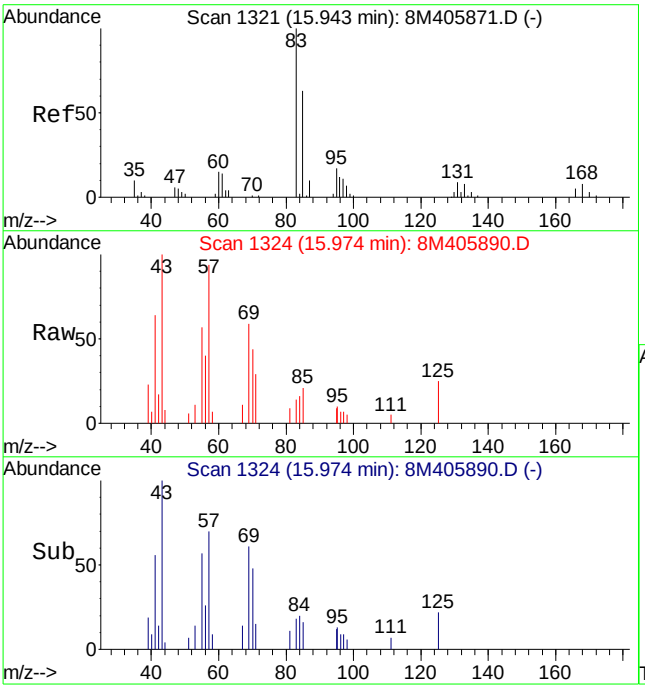


#77
Isopropylbenzene
Concen: 1.28 ug/L
RT: 15.74 min Scan# 1301
Delta R.T. 0.00 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion:105 Resp: 34299

Ion	Ratio	Lower	Upper
105	100		
120	27.1	16.0	37.2

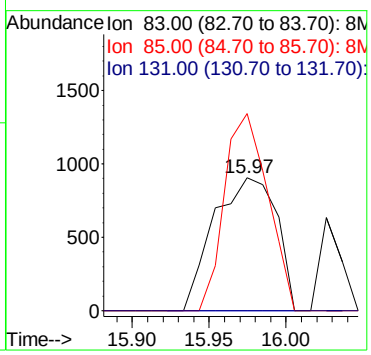


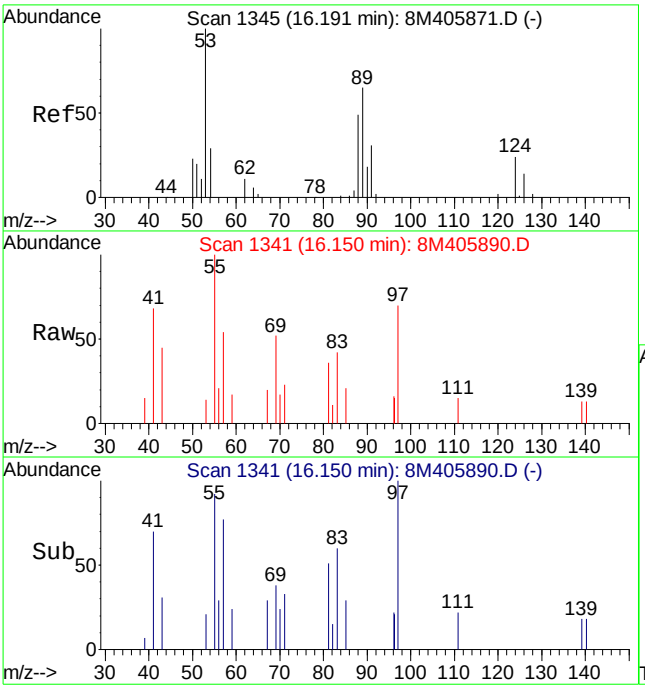


#79
1,1,2,2-Tetrachloroethane
Concen: 0.62 ug/L
RT: 15.97 min Scan# 1324
Delta R.T. 0.03 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 83 Resp: 2568

Ion	Ratio	Lower	Upper
83	100		
85	102.6	38.3	89.3#
131	0.0	5.8	13.4#

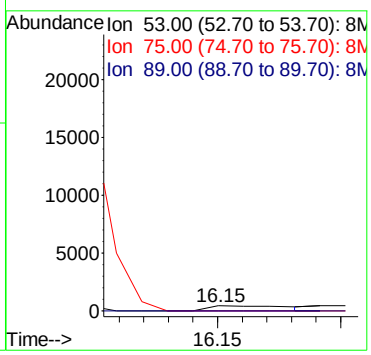


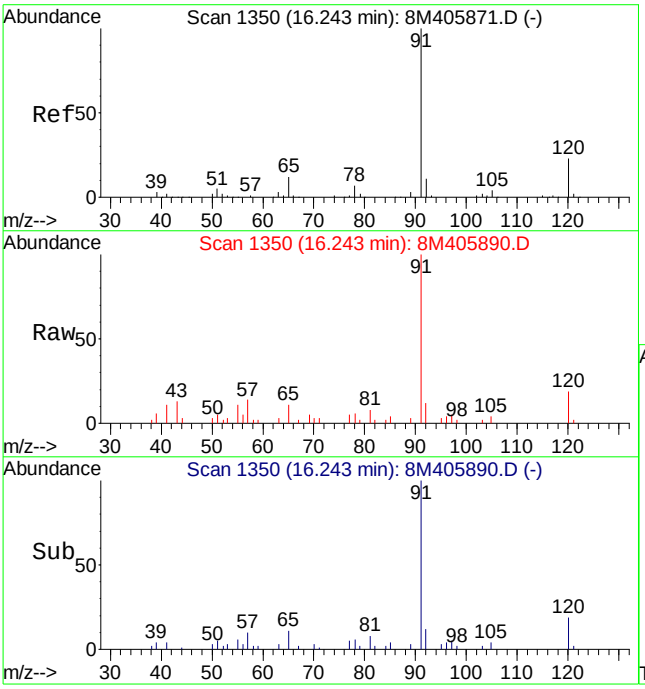


#82
trans-1,4-Dichloro-2-Butene
Concen: 1.18 ug/L
RT: 16.15 min Scan# 1341
Delta R.T. -0.04 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 53 Resp: 978

Ion	Ratio	Lower	Upper
53	100		
75	0.0	58.5	136.5#
89	0.0	33.5	78.1#

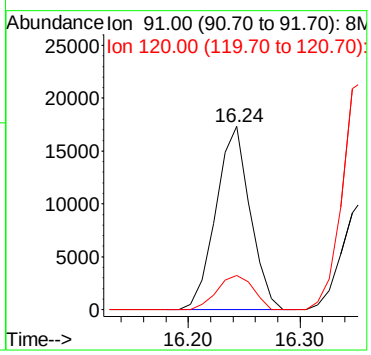


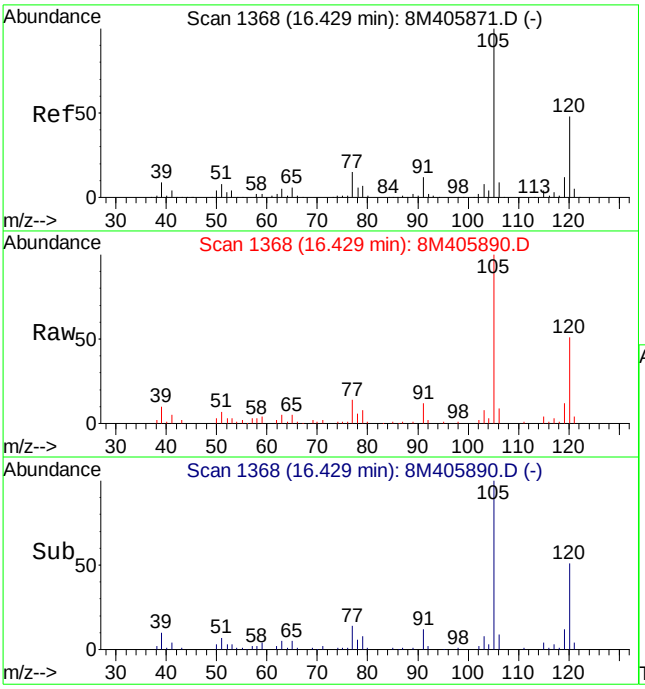


#83
n-Propylbenzene
Concen: 1.11 ug/L
RT: 16.24 min Scan# 1350
Delta R.T. 0.00 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 91 Resp: 36864

Ion	Ratio	Lower	Upper
91	100		
120	19.7	13.1	30.5

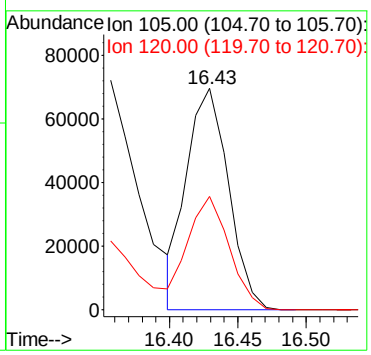


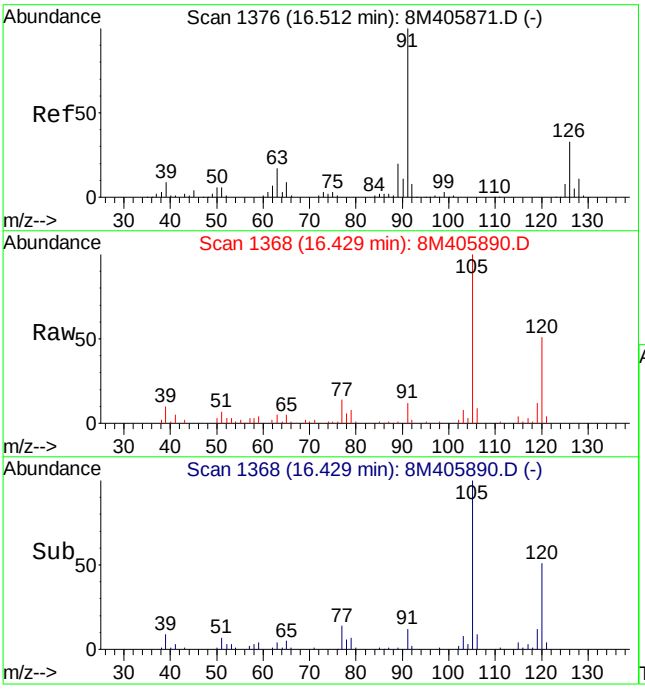


#85
1,3,5-Trimethylbenzene
Concen: 6.42 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. 0.00 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion:105 Resp: 148343

Ion	Ratio	Lower	Upper
105	100		
120	50.5	28.8	67.2

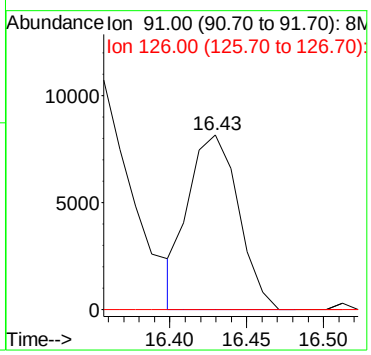


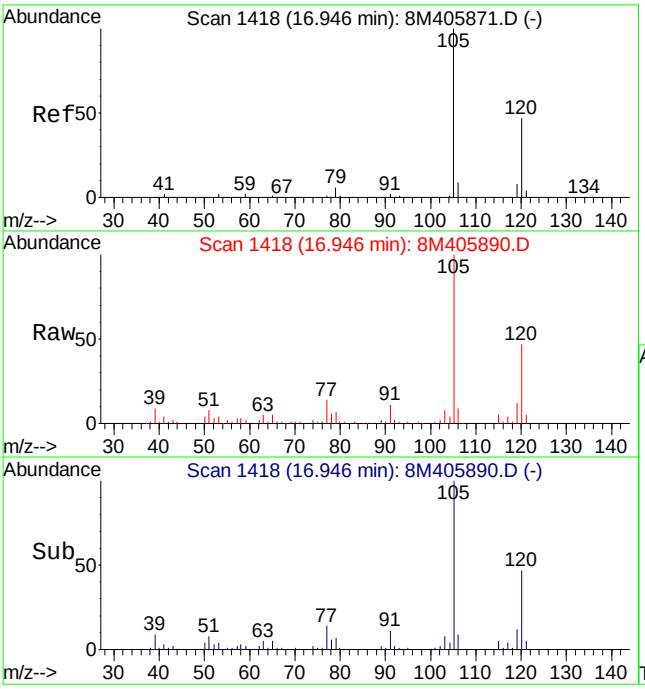


#86
2-Chlorotoluene
Concen: 0.88 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.08 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 91 Resp: 18514

Ion	Ratio	Lower	Upper
91	100		
126	0.0	19.4	45.4#

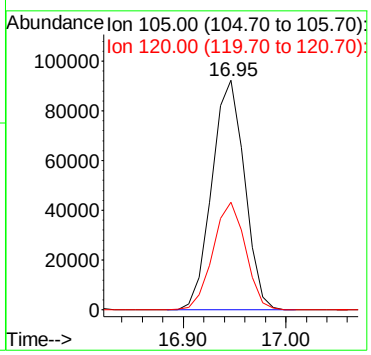


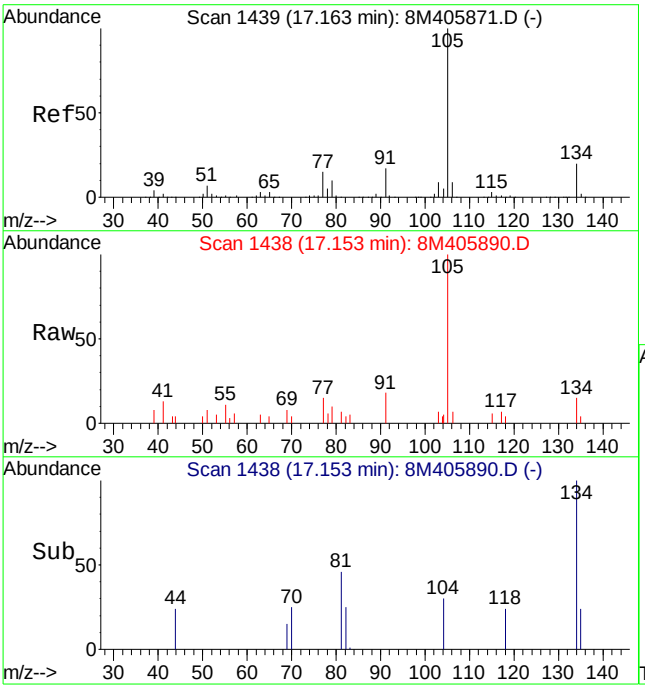


#90
1,2,4-Trimethylbenzene
Concen: 8.68 ug/L
RT: 16.95 min Scan# 1418
Delta R.T. 0.00 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion:105 Resp: 204559

Ion	Ratio	Lower	Upper
105	100		
120	46.7	32.3	75.5

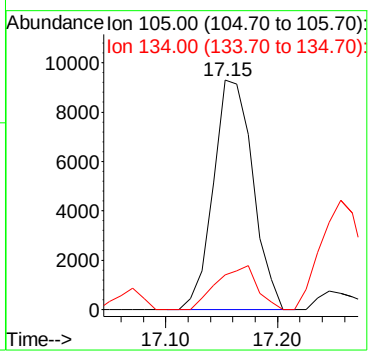


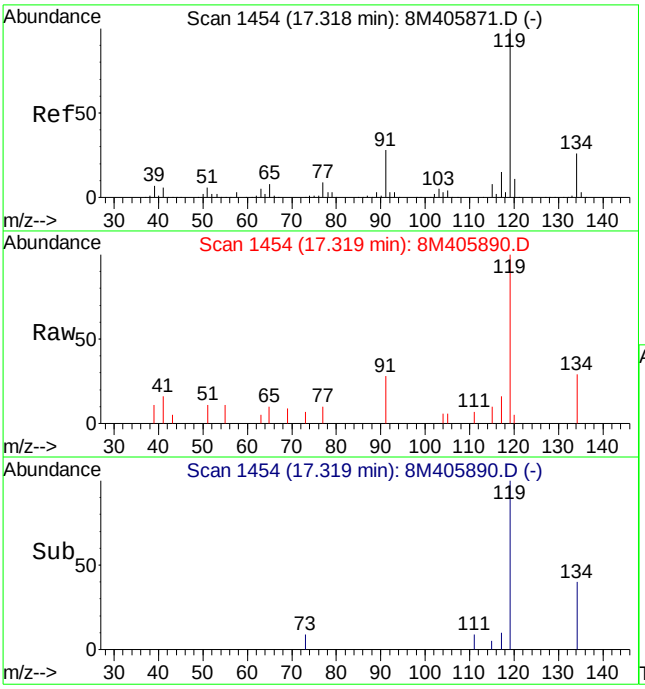


#91
sec-Butylbenzene
Concen: 0.83 ug/L
RT: 17.15 min Scan# 1438
Delta R.T. -0.01 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion:105 Resp: 22820

Ion	Ratio	Lower	Upper
105	100		
134	19.5	11.8	27.4

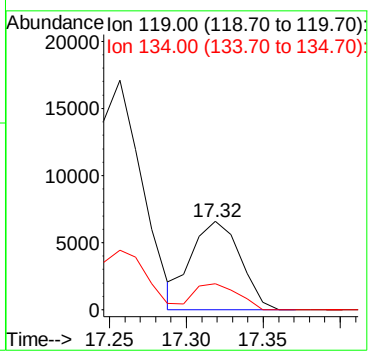


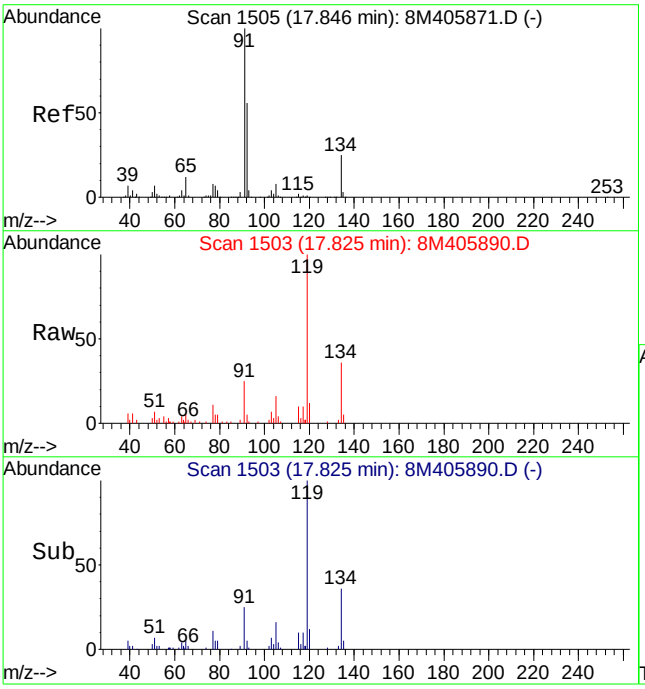


#92
p-Isopropyltoluene
Concen: 0.61 ug/L
RT: 17.32 min Scan# 1454
Delta R.T. 0.00 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion:119 Resp: 14651

Ion	Ratio	Lower	Upper
119	100		
134	25.3	15.8	36.8

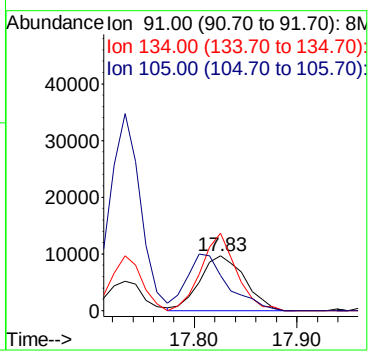


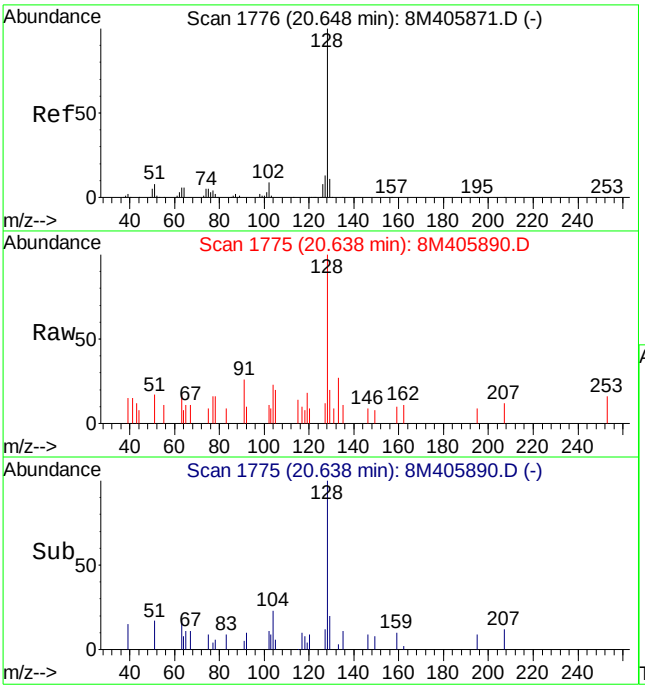


#95
n-Butylbenzene
Concen: 1.25 ug/L
RT: 17.83 min Scan# 1503
Delta R.T. -0.02 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion: 91 Resp: 29415

Ion	Ratio	Lower	Upper
91	100		
134	111.1	14.4	33.6#
105	94.2	5.0	11.8#

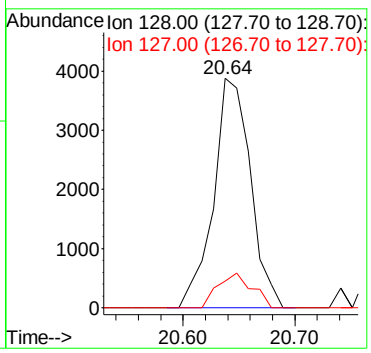




#100
Naphthalene
Concen: 0.75 ug/L
RT: 20.64 min Scan# 1775
Delta R.T. -0.01 min
Lab File: 8M405890.D
Acq: 3 Jul 2015 20:26

Tgt Ion:128 Resp: 8884

Ion	Ratio	Lower	Upper
128	100		
127	14.0	8.0	18.6



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405891.D Vial: 15
Acq On : 3 Jul 2015 20:54 Operator: ADC/ JDS
Sample : L15061450-08 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:30 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

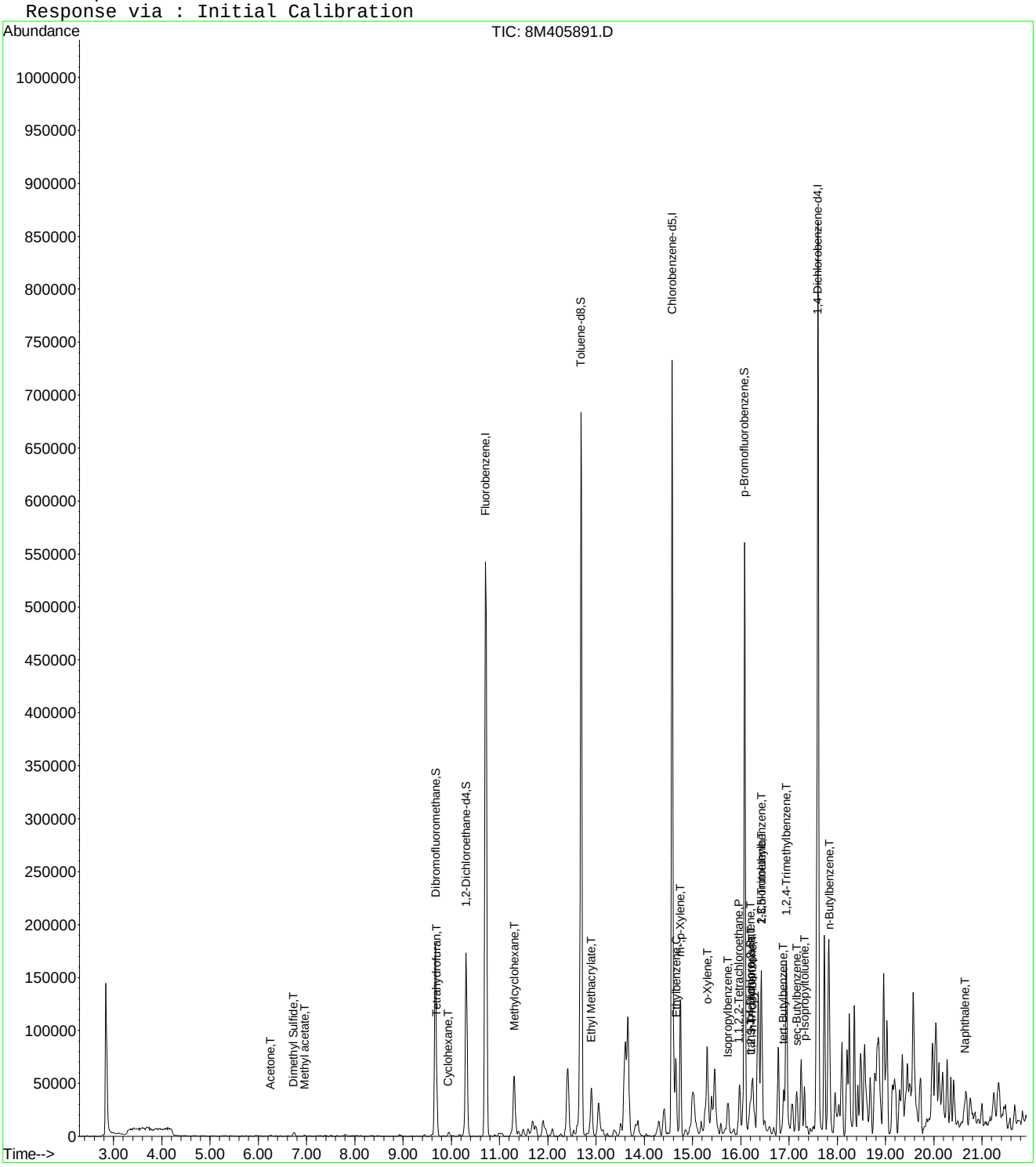
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.71	96	634882	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	453516	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	251404	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.68	111	150841	25.6093 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 102.44%		
43) 1,2-Dichloroethane-d4	10.31	65	147070	25.5277 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 102.12%		
58) Toluene-d8	12.69	98	573677	25.5718 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.28%		
80) p-Bromofluorobenzene	16.08	95	233422	25.9881 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 103.96%		
Target Compounds					Qvalue
13) Acetone	6.25	43	1332	1.7077 ug/L #	48
16) Dimethyl Sulfide	6.73	62	2280	0.4512 ug/L	100
18) Methyl acetate	6.97	43	712	0.2299 ug/L #	64
36) Tetrahydrofuran	9.70	42	205	0.2329 ug/L #	1
39) Cyclohexane	9.94	56	3417	0.8158 ug/L	74
48) Methylcyclohexane	11.31	83	35300	3.7704 ug/L	94
60) Ethyl Methacrylate	12.90	69	8015	1.7400 ug/L #	1
72) Ethylbenzene	14.66	106	7651	0.8122 ug/L	95
73) m-,p-Xylene	14.75	106	46101	4.1552 ug/L	88
74) o-Xylene	15.31	106	24462	2.2730 ug/L	99
77) Isopropylbenzene	15.74	105	25169	0.9323 ug/L	96
79) 1,1,2,2-Tetrachloroethane	15.96	83	3923	0.9247 ug/L #	57
81) 1,2,3-Trichloropropane	16.21	110	483	0.3965 ug/L #	1
82) trans-1,4-Dichloro-2-Buten	16.20	53	1752	1.6613 ug/L #	9
83) n-Propylbenzene	16.24	91	47715	1.3964 ug/L	97
85) 1,3,5-Trimethylbenzene	16.43	105	110548	4.6389 ug/L	100
86) 2-Chlorotoluene	16.43	91	13906	0.6445 ug/L #	42
89) tert-Butylbenzene	16.88	134	791	0.1629 ug/L #	59
90) 1,2,4-Trimethylbenzene	16.95	105	117162	4.8232 ug/L	90
91) sec-Butylbenzene	17.16	105	40430	1.4237 ug/L	97
92) p-Isopropyltoluene	17.32	119	35735	1.4481 ug/L	98
95) n-Butylbenzene	17.83	91	60213	2.4882 ug/L #	1
100) Naphthalene	20.65	128	8906	0.7279 ug/L	95

(#) = qualifier out of range (m) = manual integration
8M405891.D 8260WT.M Mon Jul 06 10:26:30 2015 Page 1

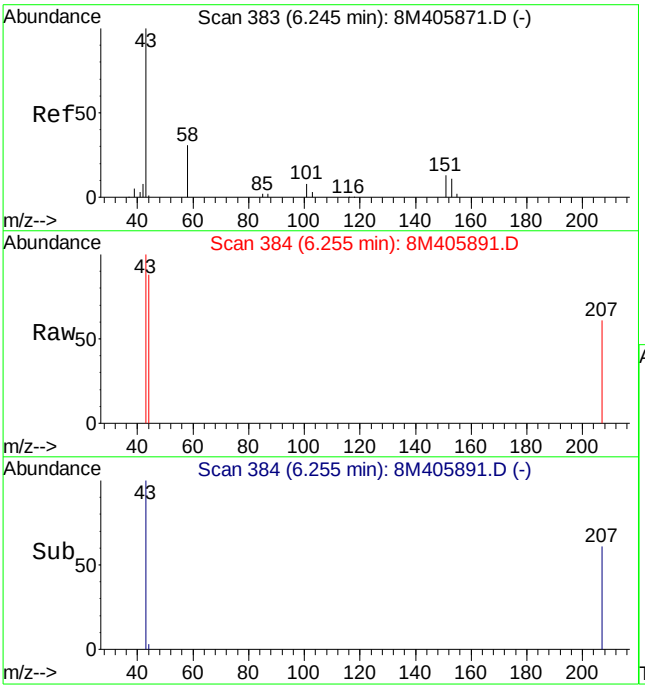
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405891.D Vial: 15
Acq On : 3 Jul 2015 20:54 Operator: ADC/ JDS
Sample : L15061450-08 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



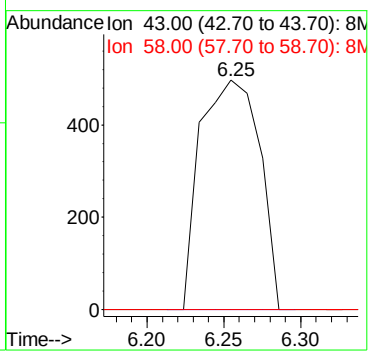
8M405891.D 8260WT.M Mon Jul 06 10:26:31 2015 Page 2

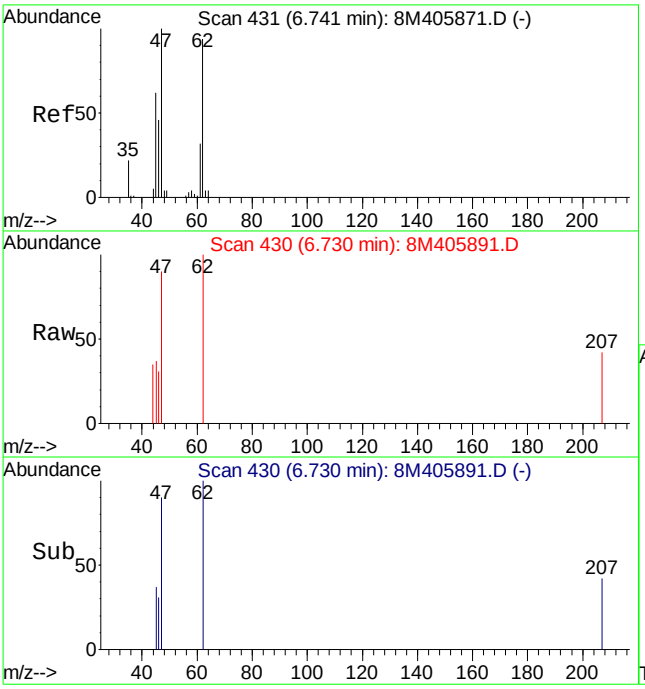


#13
Acetone
Concen: 1.71 ug/L
RT: 6.25 min Scan# 384
Delta R.T. 0.01 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion: 43 Resp: 1332

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#

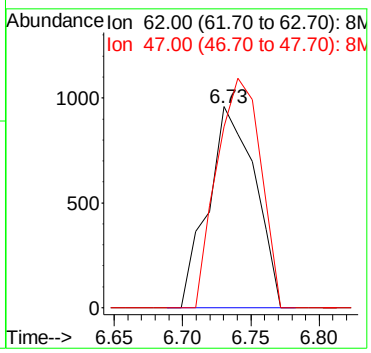


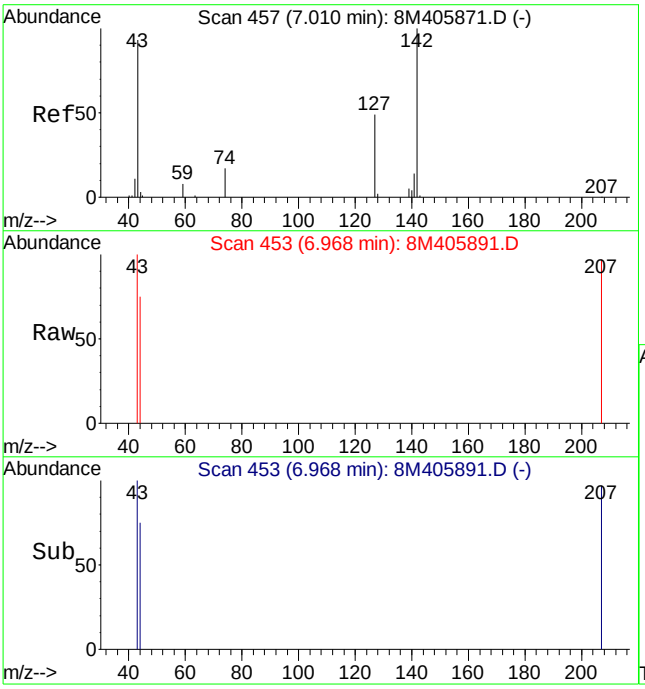


#16
Dimethyl Sulfide
Concen: 0.45 ug/L
RT: 6.73 min Scan# 430
Delta R.T. -0.01 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion: 62 Resp: 2280

Ion	Ratio	Lower	Upper
62	100		
47	107.1	64.3	149.9

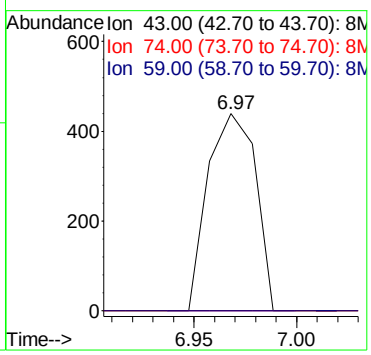


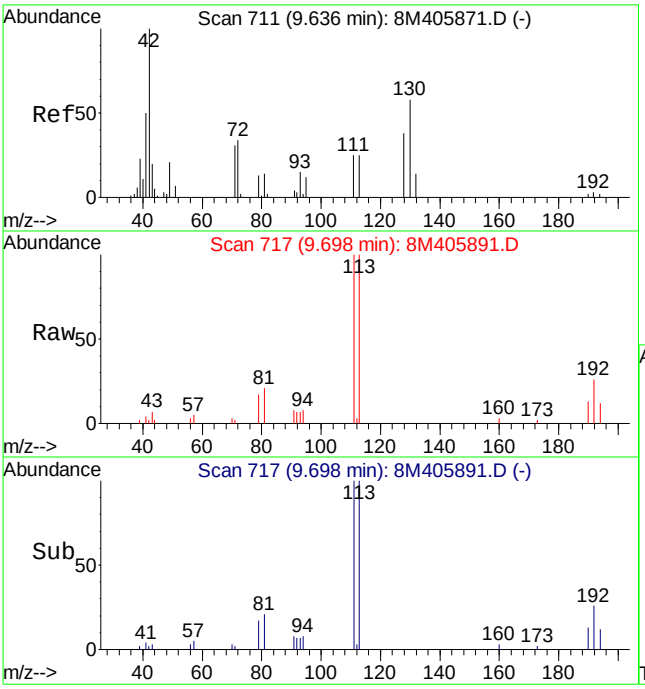


#18
Methyl acetate
Concen: 0.23 ug/L
RT: 6.97 min Scan# 453
Delta R.T. -0.04 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion: 43 Resp: 712

Ion	Ratio	Lower	Upper
43	100		
74	0.0	11.2	26.2#
59	0.0	4.7	11.1#

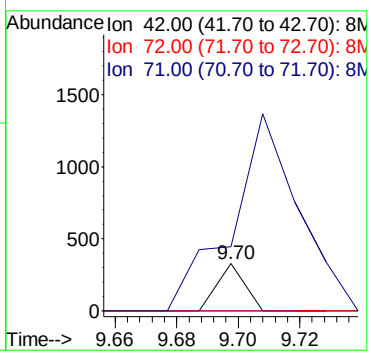


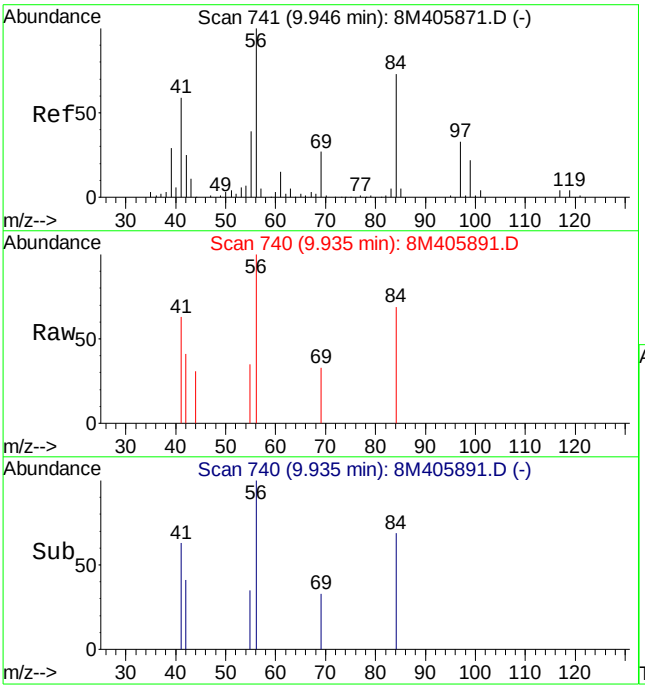


#36
Tetrahydrofuran
Concen: 0.23 ug/L
RT: 9.70 min Scan# 717
Delta R.T. 0.06 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion: 42 Resp: 205

Ion	Ratio	Lower	Upper
42	100		
72	0.0	22.4	52.4#
71	1009.3	19.5	45.5#

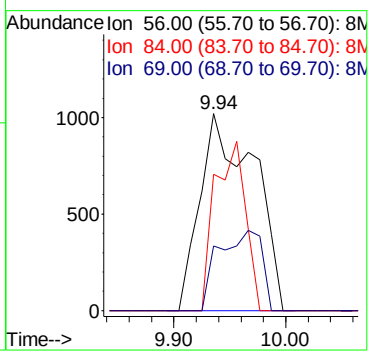


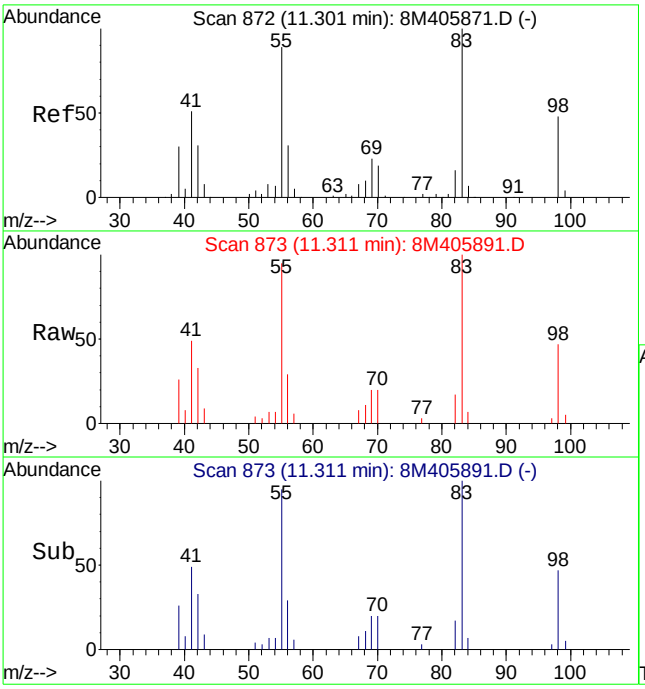


#39
Cyclohexane
Concen: 0.82 ug/L
RT: 9.94 min Scan# 740
Delta R.T. -0.01 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion: 56 Resp: 3417

Ion	Ratio	Lower	Upper
56	100		
84	48.7	45.4	105.8
69	32.4	15.8	37.0

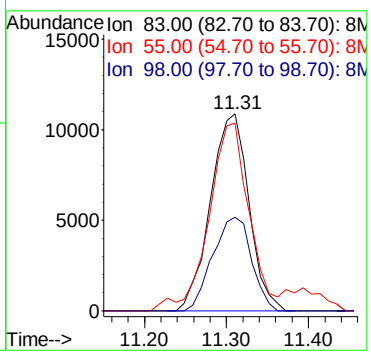


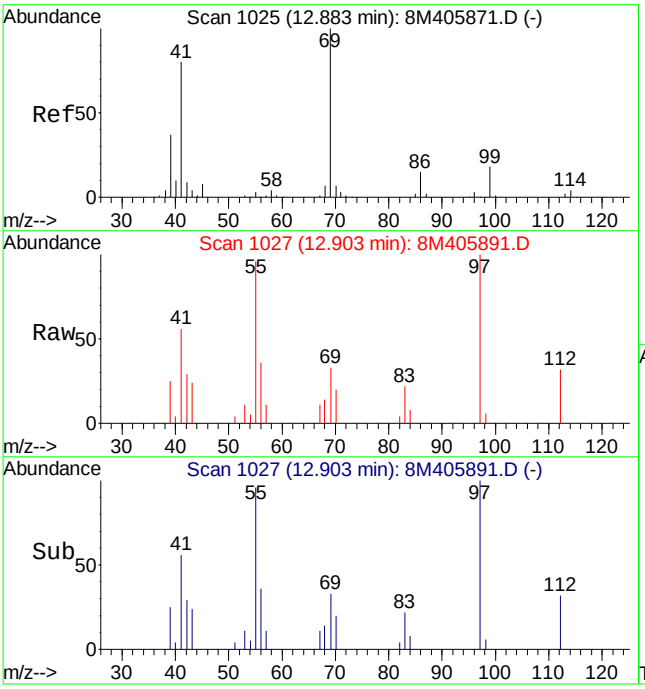


#48
Methylcyclohexane
Concen: 3.77 ug/L
RT: 11.31 min Scan# 873
Delta R.T. 0.01 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion: 83 Resp: 35300

Ion	Ratio	Lower	Upper
83	100		
55	99.3	54.8	128.0
98	47.9	29.0	67.8

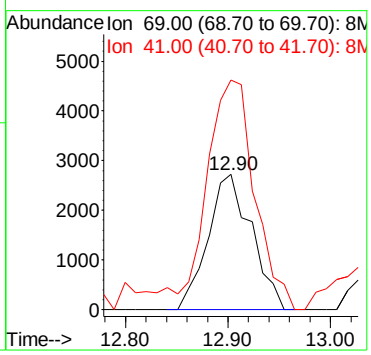


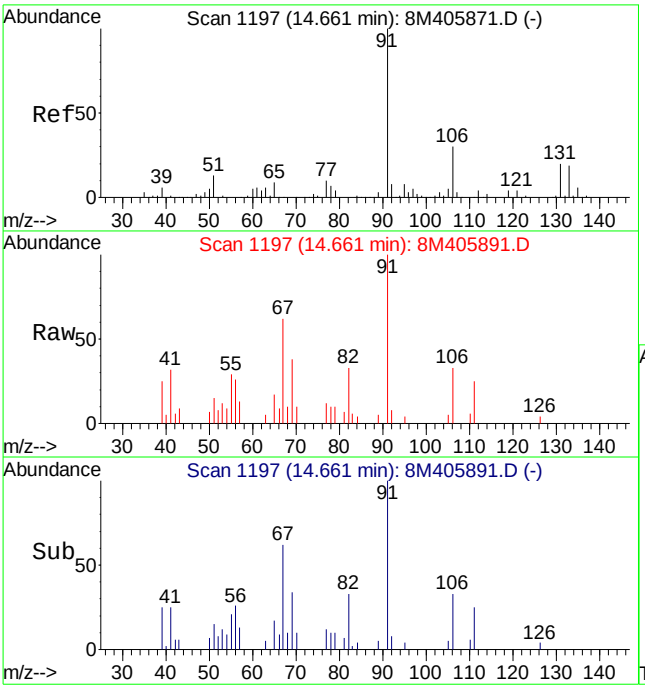


#60
Ethyl Methacrylate
Concen: 1.74 ug/L
RT: 12.90 min Scan# 1027
Delta R.T. 0.02 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion: 69 Resp: 8015

Ion	Ratio	Lower	Upper
69	100		
41	189.6	48.5	113.3#

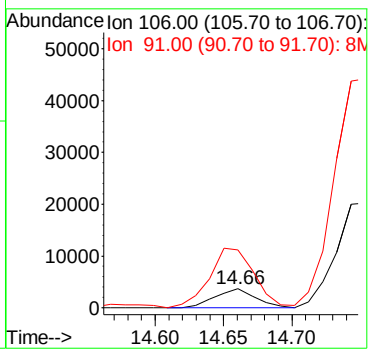


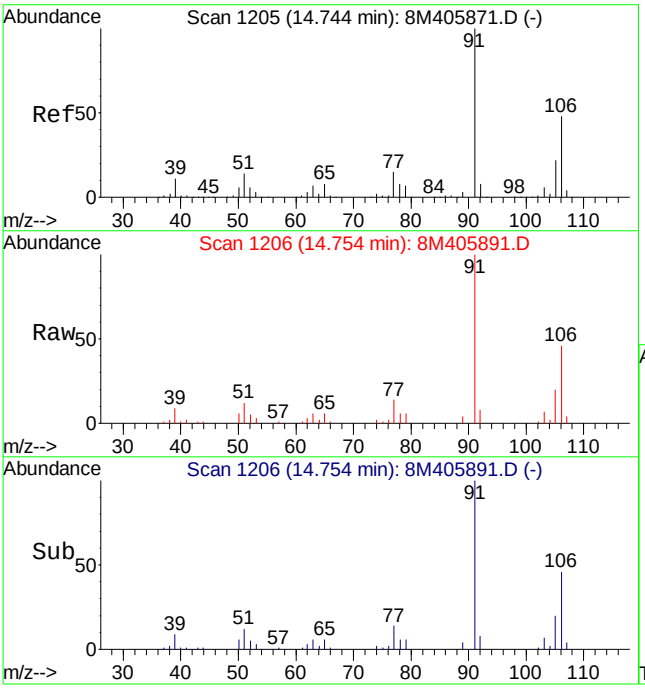


#72
Ethylbenzene
Concen: 0.81 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.00 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion:106 Resp: 7651

Ion	Ratio	Lower	Upper
106	100		
91	343.6	199.7	466.1

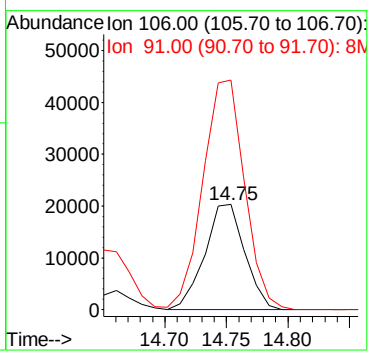


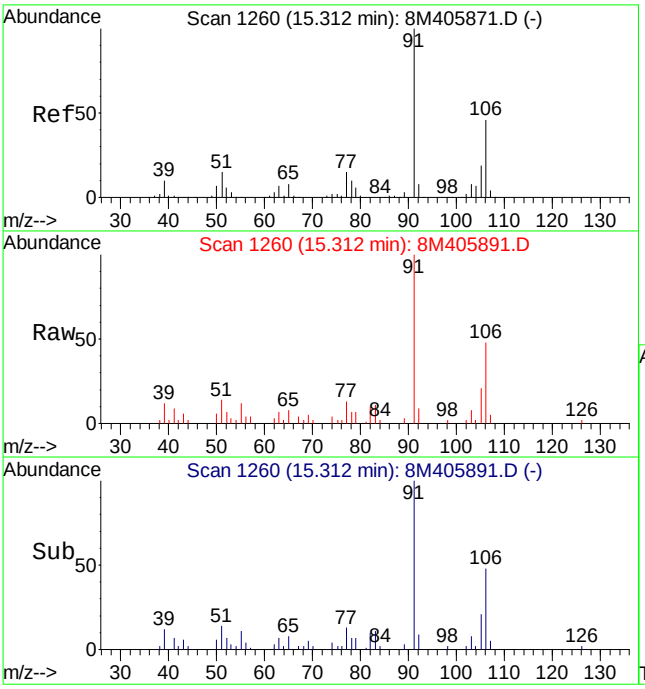


#73
m-,p-Xylene
Concen: 4.16 ug/L
RT: 14.75 min Scan# 1206
Delta R.T. 0.01 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion:106 Resp: 46101

Ion	Ratio	Lower	Upper
106	100		
91	226.4	125.1	291.9

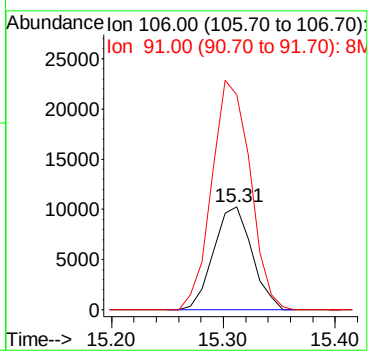


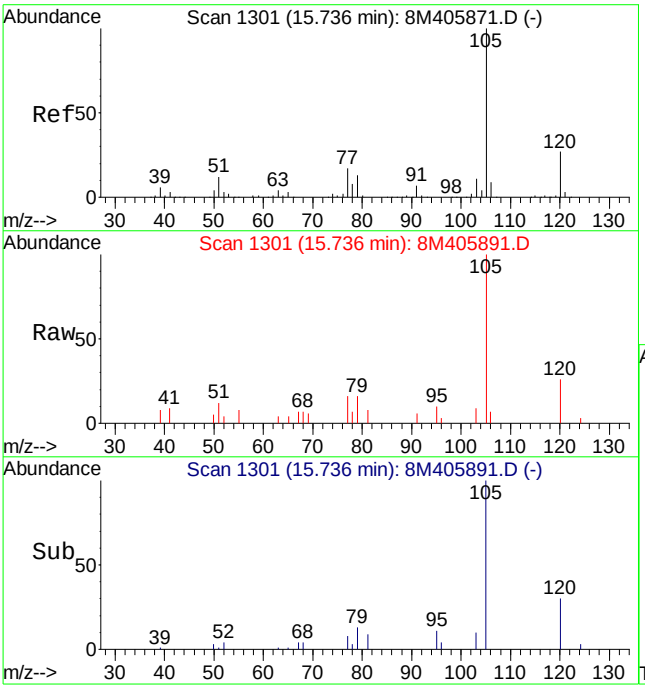


#74
o-Xylene
Concen: 2.27 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. -0.00 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion:106 Resp: 24462

Ion	Ratio	Lower	Upper
106	100		
91	222.8	134.3	313.5

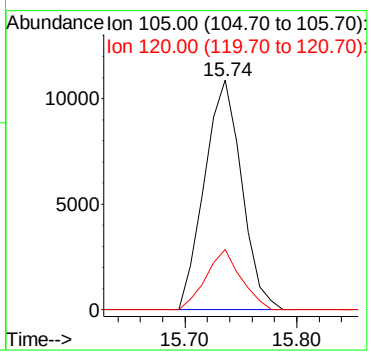


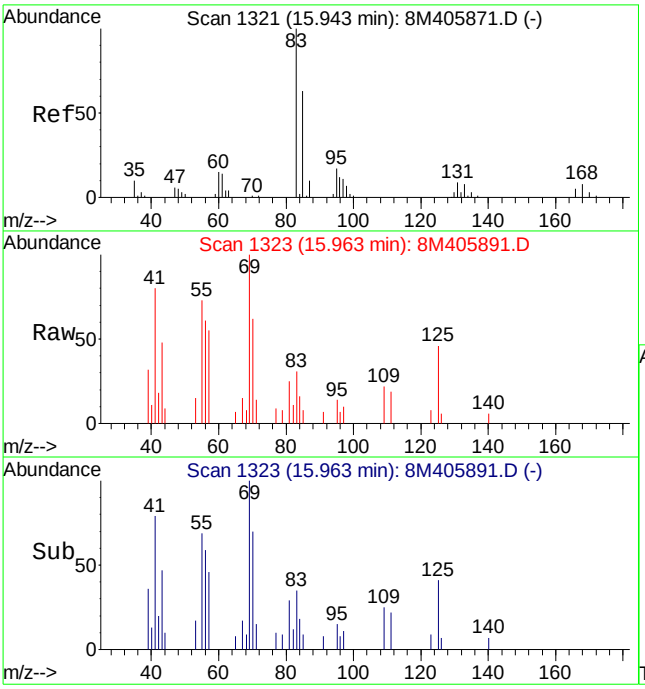


#77
Isopropylbenzene
Concen: 0.93 ug/L
RT: 15.74 min Scan# 1301
Delta R.T. -0.00 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion:105 Resp: 25169

Ion	Ratio	Lower	Upper
105	100		
120	24.6	16.0	37.2

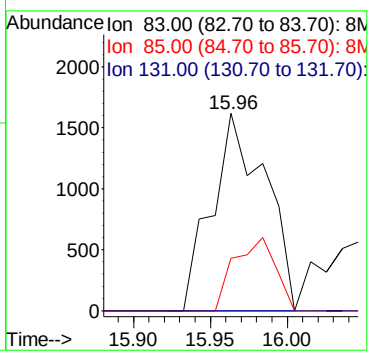


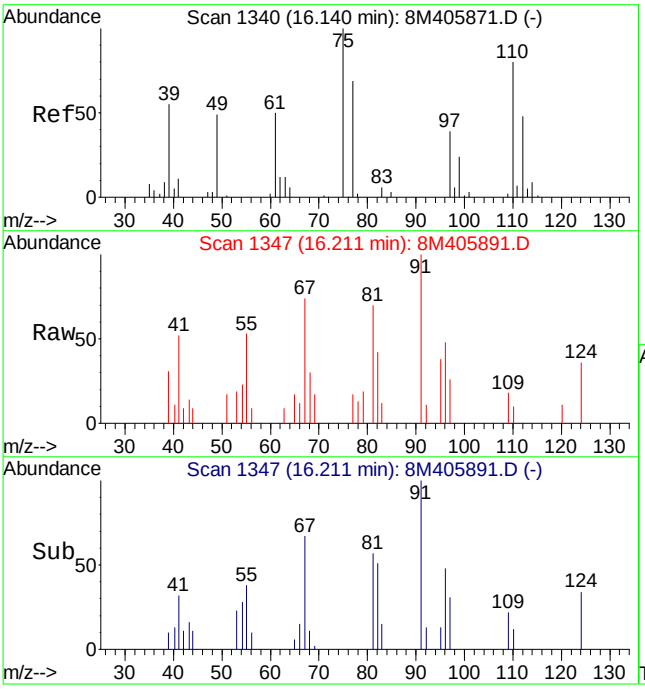


#79
1,1,2,2-Tetrachloroethane
Concen: 0.92 ug/L
RT: 15.96 min Scan# 1323
Delta R.T. 0.02 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion: 83 Resp: 3923

Ion	Ratio	Lower	Upper
83	100		
85	28.4	38.3	89.3#
131	0.0	5.8	13.4#

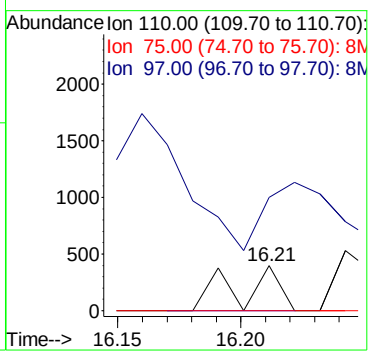


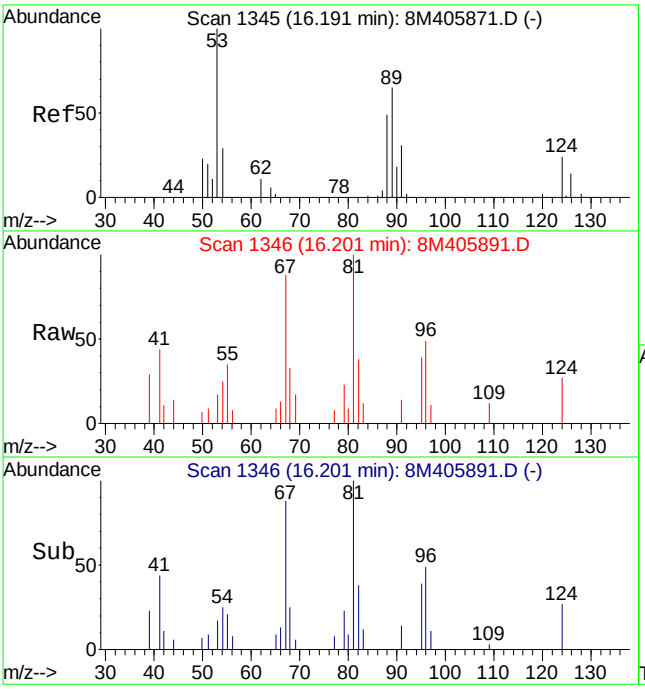


#81
1,2,3-Trichloropropane
Concen: 0.40 ug/L
RT: 16.21 min Scan# 1347
Delta R.T. 0.07 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion:110 Resp: 483

Ion	Ratio	Lower	Upper
110	100		
75	0.0	168.8	393.8#
97	740.2	31.0	72.2#

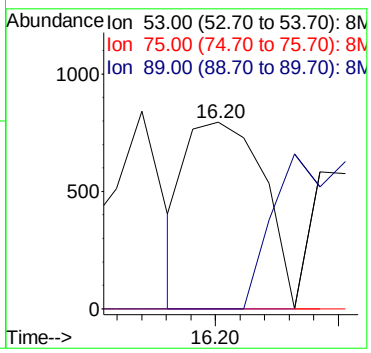


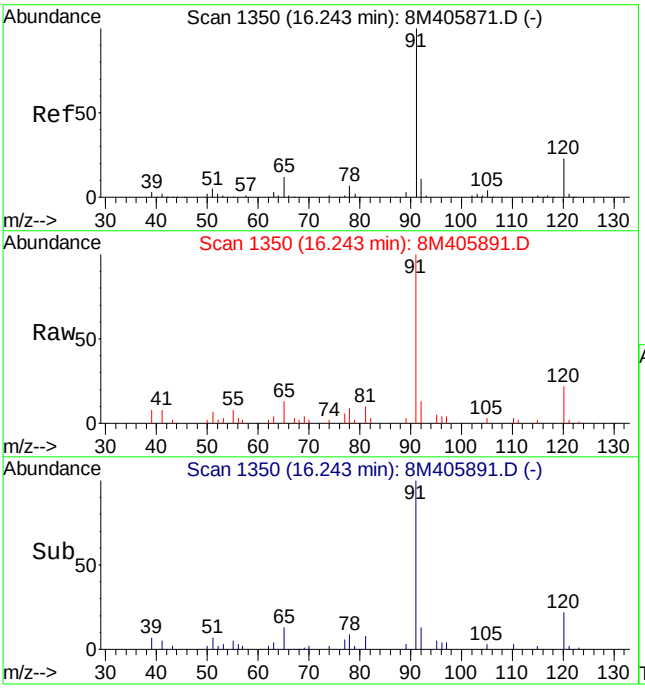


#82
trans-1,4-Dichloro-2-Butene
Concen: 1.66 ug/L
RT: 16.20 min Scan# 1346
Delta R.T. 0.01 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion: 53 Resp: 1752

Ion	Ratio	Lower	Upper
53	100		
75	0.0	58.5	136.5#
89	0.0	33.5	78.1#

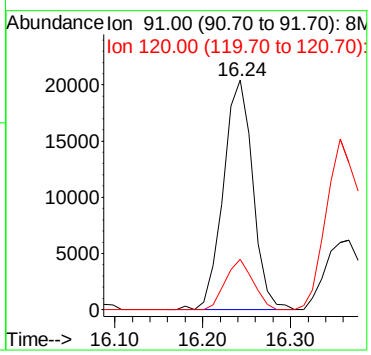


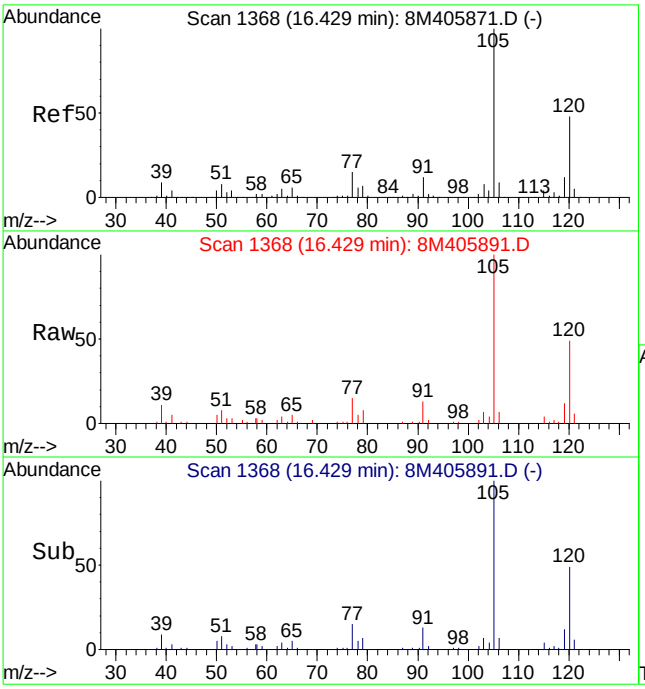


#83
n-Propylbenzene
Concen: 1.40 ug/L
RT: 16.24 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion: 91 Resp: 47715

Ion	Ratio	Lower	Upper
91	100		
120	20.4	13.1	30.5

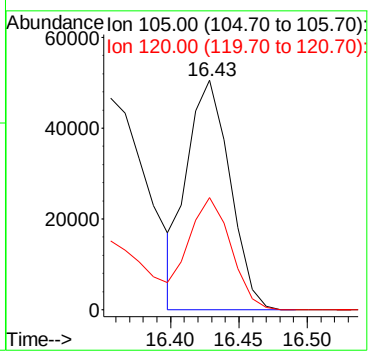


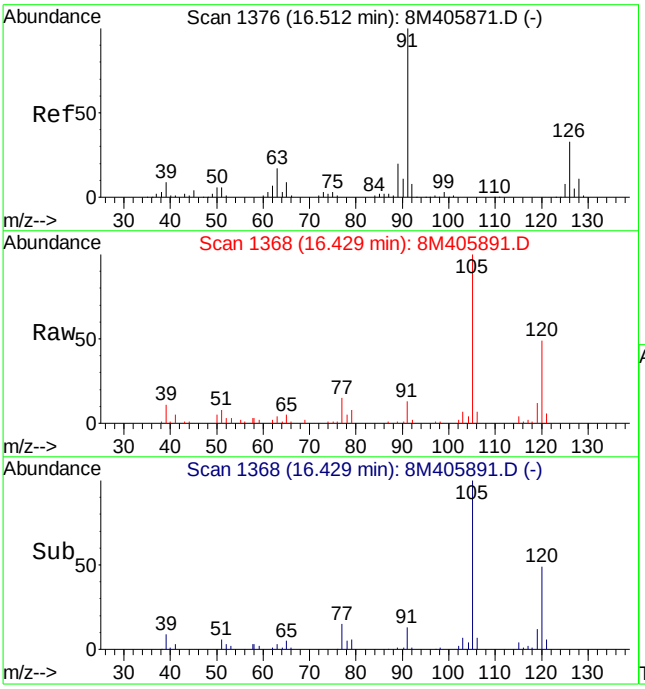


#85
1,3,5-Trimethylbenzene
Concen: 4.64 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.00 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion:105 Resp: 110548

Ion	Ratio	Lower	Upper
105	100		
120	48.3	28.8	67.2

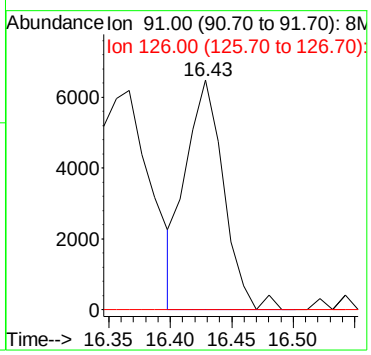


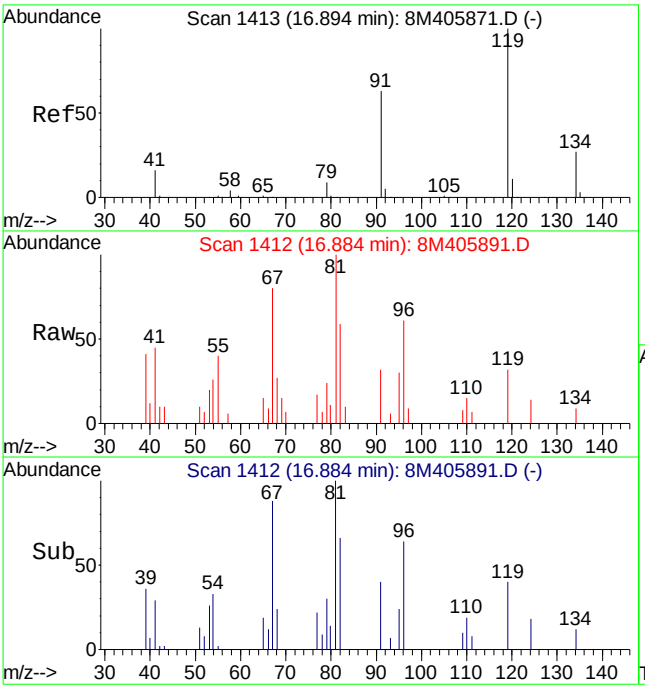


#86
2-Chlorotoluene
Concen: 0.64 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.08 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion: 91 Resp: 13906

Ion	Ratio	Lower	Upper
91	100		
126	0.0	19.4	45.4#

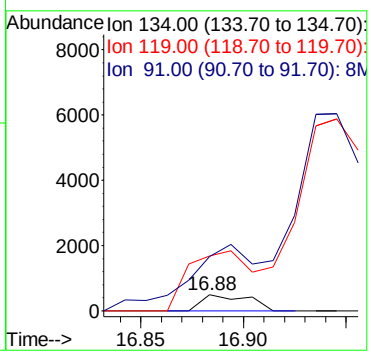


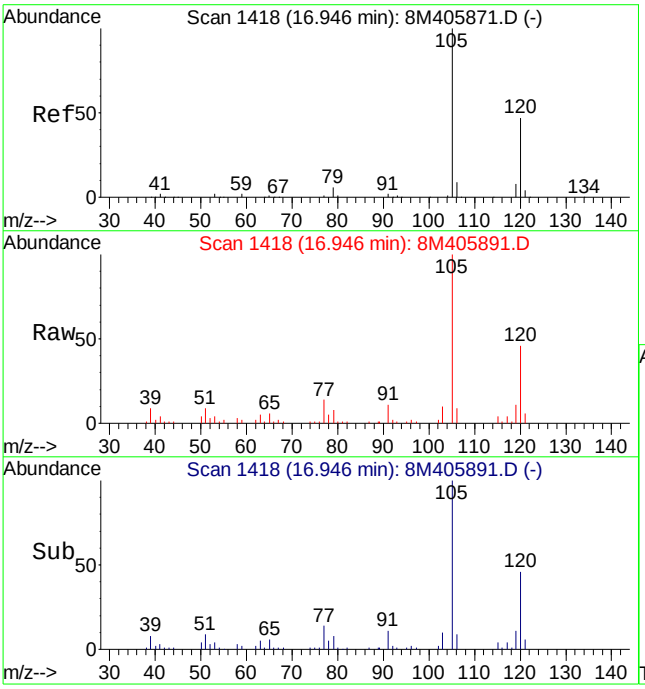


#89
tert-Butylbenzene
Concen: 0.16 ug/L
RT: 16.88 min Scan# 1412
Delta R.T. -0.01 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion:134 Resp: 791

Ion	Ratio	Lower	Upper
134	100		
119	481.3	293.9	685.7
91	565.1	214.9	501.3#

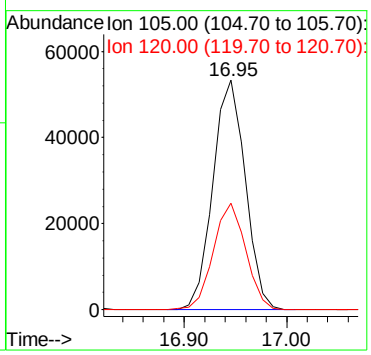


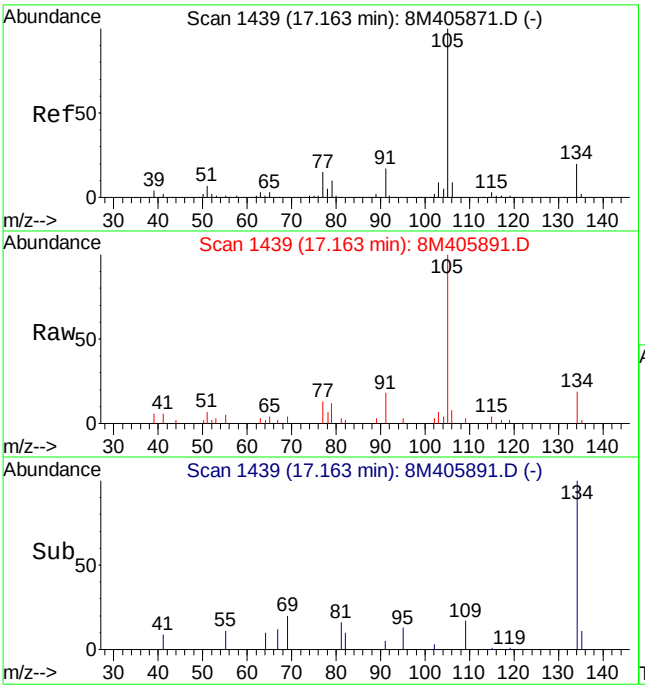


#90
1,2,4-Trimethylbenzene
Concen: 4.82 ug/L
RT: 16.95 min Scan# 1418
Delta R.T. -0.00 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion:105 Resp: 117162

Ion	Ratio	Lower	Upper
105	100		
120	46.4	32.3	75.5

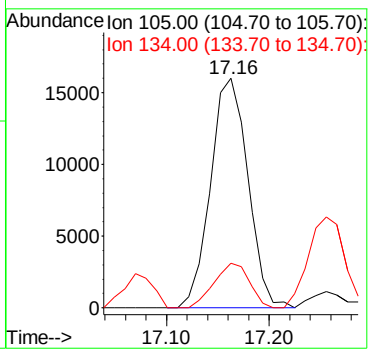


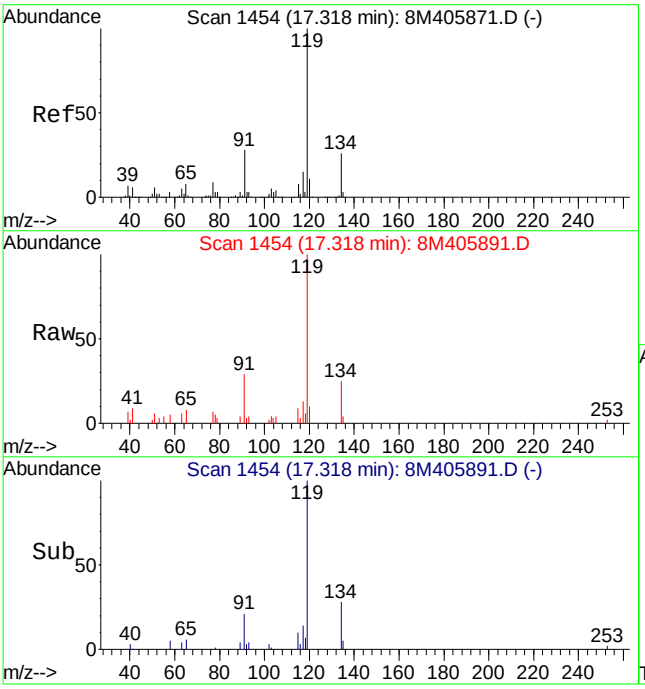


#91
sec-Butylbenzene
Concen: 1.42 ug/L
RT: 17.16 min Scan# 1439
Delta R.T. -0.00 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion:105 Resp: 40430

Ion	Ratio	Lower	Upper
105	100		
134	18.4	11.8	27.4

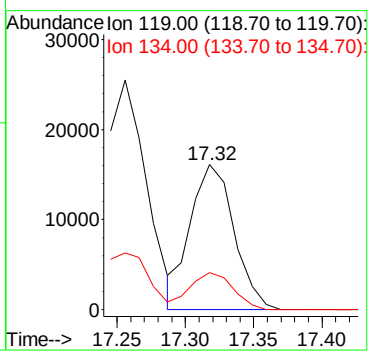


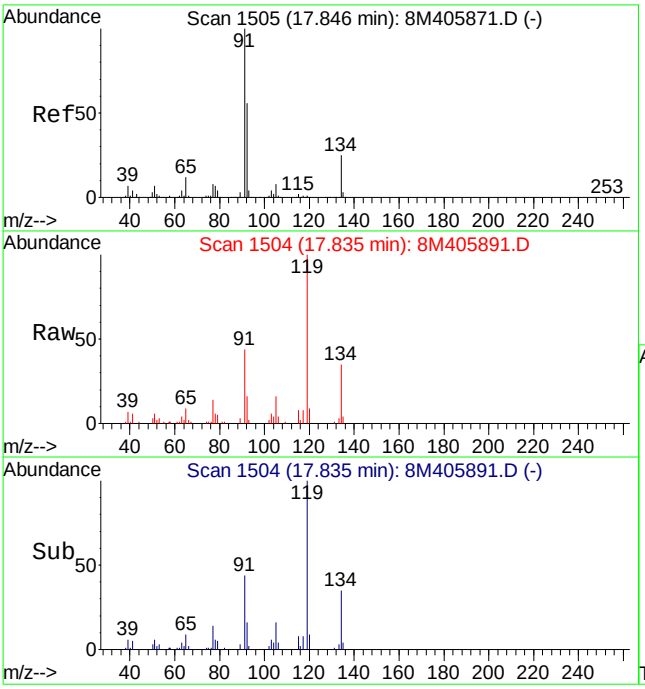


#92
p-Isopropyltoluene
Concen: 1.45 ug/L
RT: 17.32 min Scan# 1454
Delta R.T. -0.00 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion:119 Resp: 35735

Ion	Ratio	Lower	Upper
119	100		
134	25.3	15.8	36.8

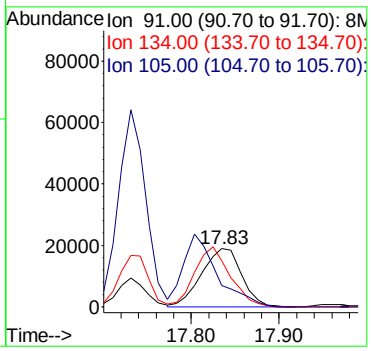


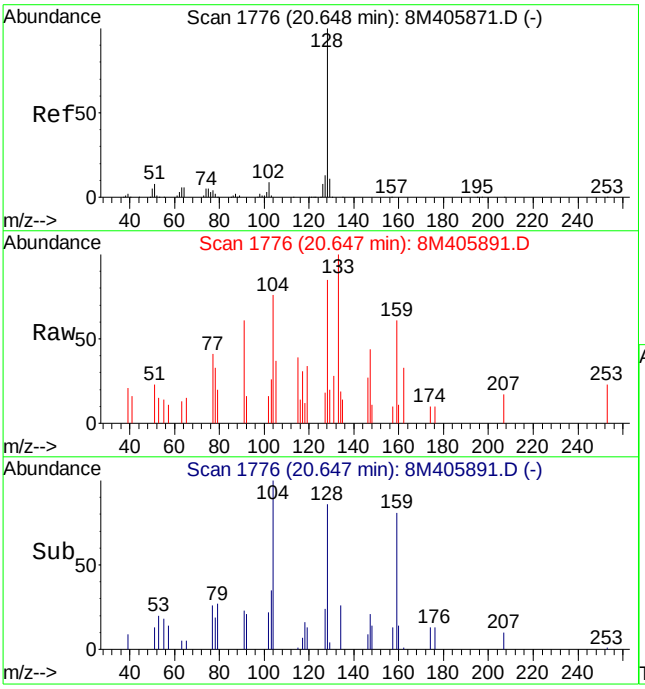


#95
n-Butylbenzene
Concen: 2.49 ug/L
RT: 17.83 min Scan# 1504
Delta R.T. -0.01 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion: 91 Resp: 60213

Ion	Ratio	Lower	Upper
91	100		
134	90.4	14.4	33.6#
105	104.7	5.0	11.8#

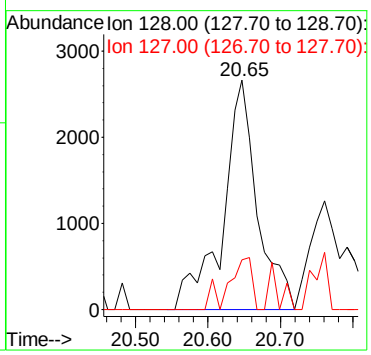




#100
Naphthalene
Concen: 0.73 ug/L
RT: 20.65 min Scan# 1776
Delta R.T. -0.00 min
Lab File: 8M405891.D
Acq: 3 Jul 2015 20:54

Tgt Ion:128 Resp: 8906

Ion	Ratio	Lower	Upper
128	100		
127	15.4	8.0	18.6



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405892.D Vial: 16
Acq On : 3 Jul 2015 21:23 Operator: ADC/ JDS
Sample : L15061450-09 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:33 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

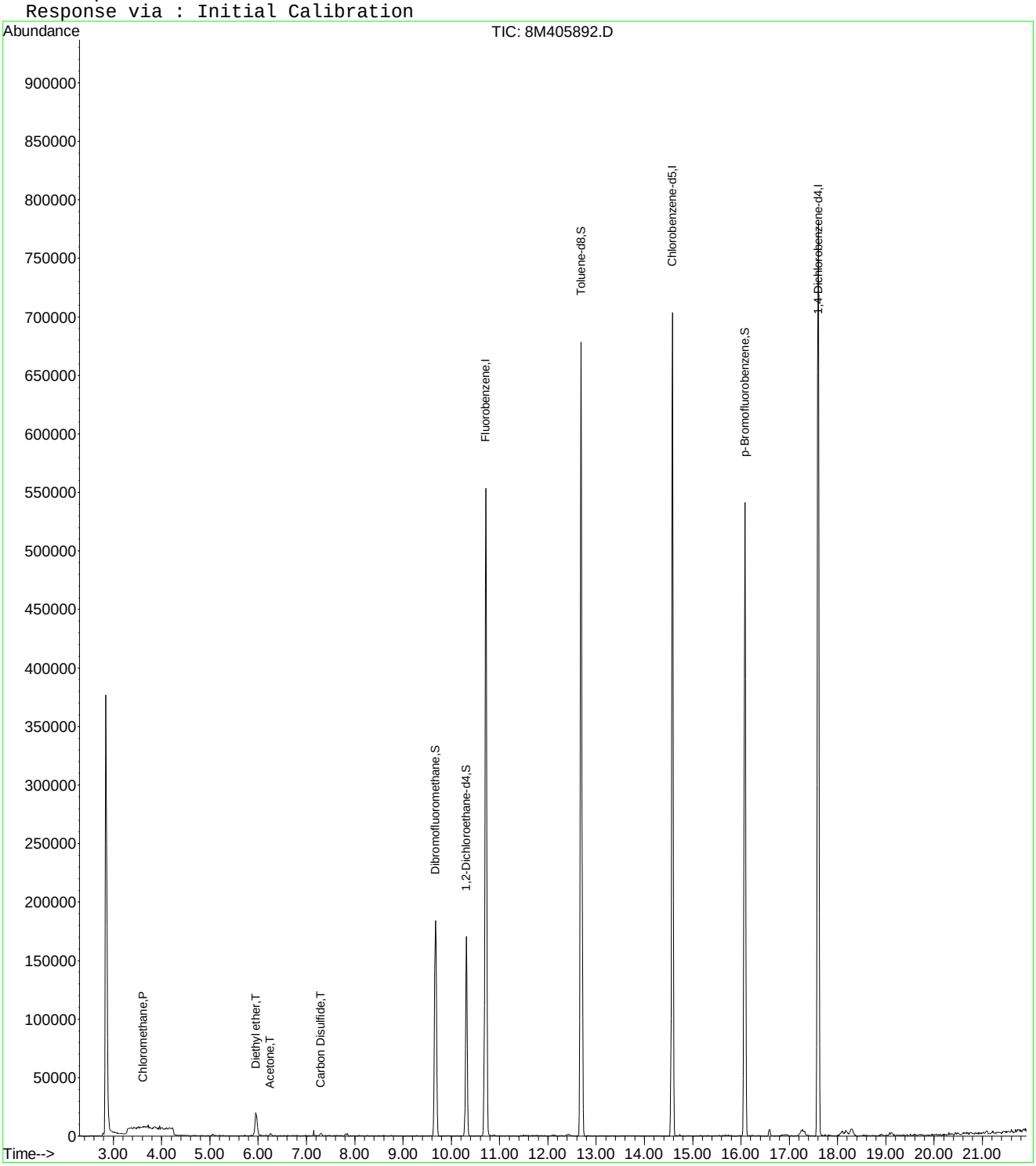
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	649492	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	455951	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	246264	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	151181	25.0896	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.36%			
43) 1,2-Dichloroethane-d4	10.31	65	147868	25.0889	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 100.36%			
58) Toluene-d8	12.69	98	585640	25.9657	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.88%			
80) p-Bromofluorobenzene	16.08	95	225272	25.6042	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.40%			
Target Compounds						Qvalue
3) Chloromethane	3.62	50	2626	0.2059	ug/L #	43
9) Diethyl ether	5.96	59	862	0.2229	ug/L #	1
13) Acetone	6.25	43	3875	4.8563	ug/L	98
20) Carbon Disulfide	7.29	76	4122	0.2417	ug/L #	74

(#) = qualifier out of range (m) = manual integration
8M405892.D 8260WT.M Mon Jul 06 10:26:33 2015 Page 1

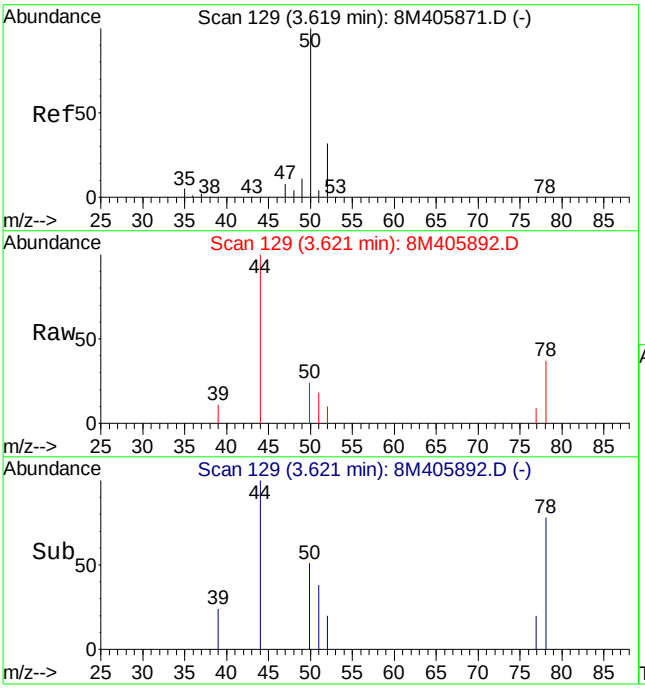
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405892.D Vial: 16
Acq On : 3 Jul 2015 21:23 Operator: ADC/ JDS
Sample : L15061450-09 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



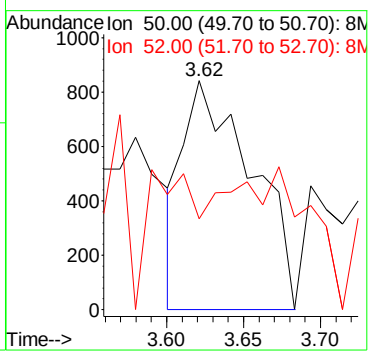
8M405892.D 8260WT.M Mon Jul 06 10:26:33 2015 Page 2

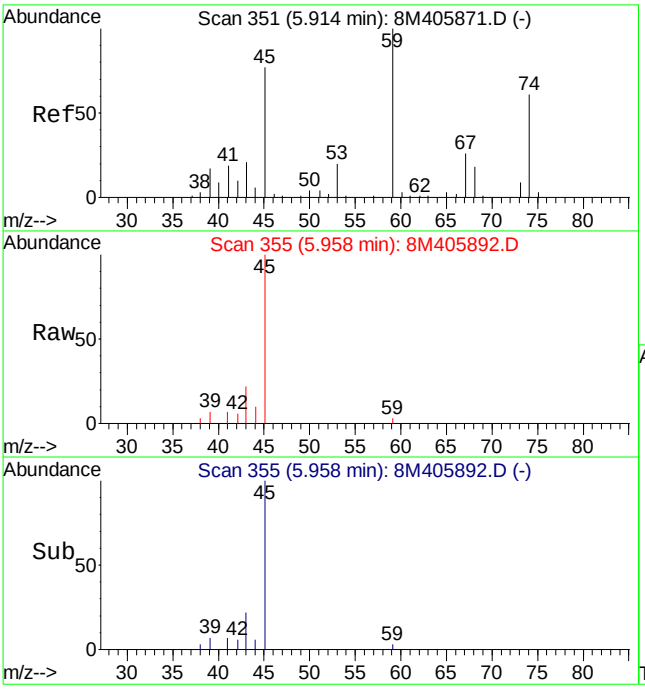


#3
Chloromethane
Concen: 0.21 ug/L
RT: 3.62 min Scan# 129
Delta R.T. 0.00 min
Lab File: 8M405892.D
Acq: 3 Jul 2015 21:23

Tgt Ion: 50 Resp: 2626

Ion	Ratio	Lower	Upper
50	100		
52	0.0	19.2	44.8#

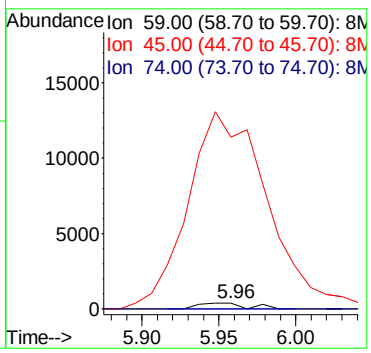


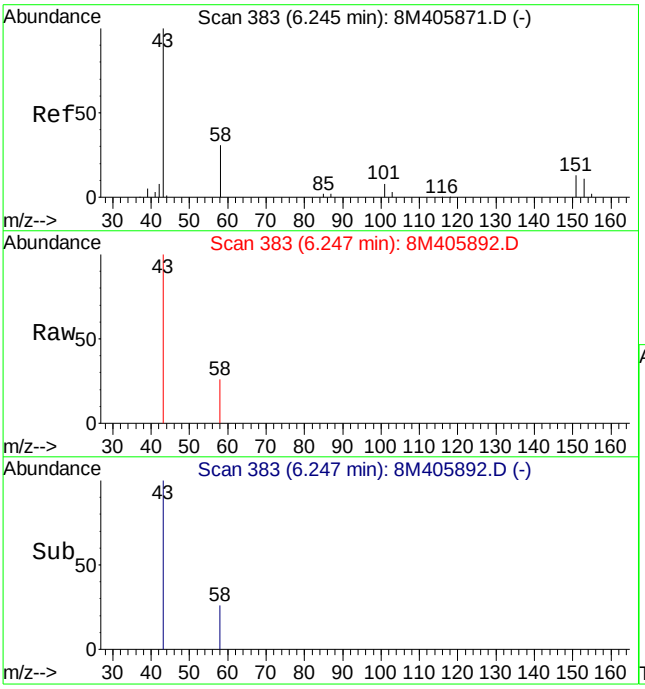


#9
Diethyl ether
Concen: 0.22 ug/L
RT: 5.96 min Scan# 355
Delta R.T. 0.04 min
Lab File: 8M405892.D
Acq: 3 Jul 2015 21:23

Tgt Ion: 59 Resp: 862

Ion	Ratio	Lower	Upper
59	100		
45	5541.4	49.3	115.1#
74	0.0	38.6	90.2#

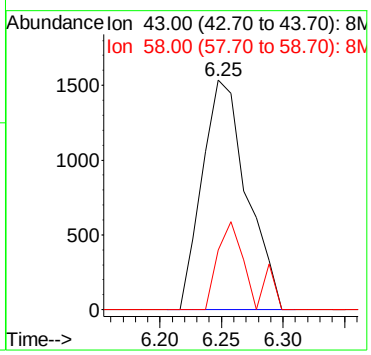


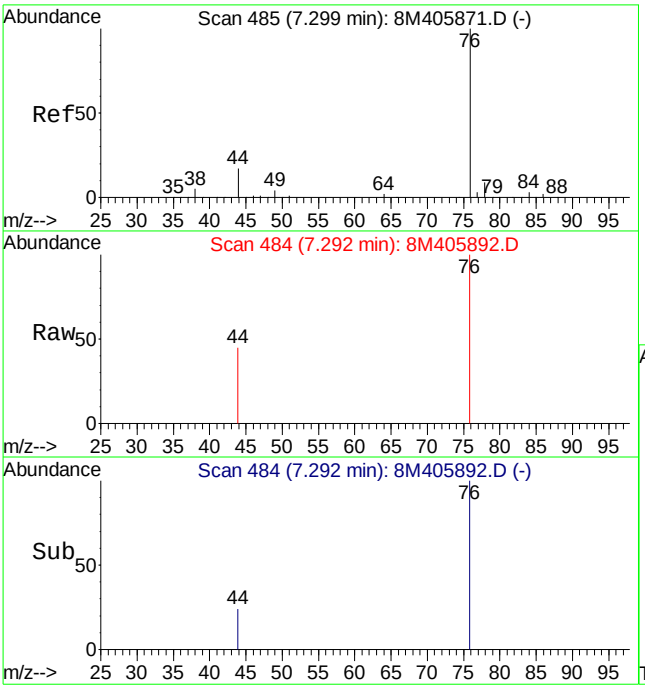


#13
Acetone
Concen: 4.86 ug/L
RT: 6.25 min Scan# 383
Delta R.T. 0.00 min
Lab File: 8M405892.D
Acq: 3 Jul 2015 21:23

Tgt Ion: 43 Resp: 3875

Ion	Ratio	Lower	Upper
43	100		
58	26.1	16.4	38.2

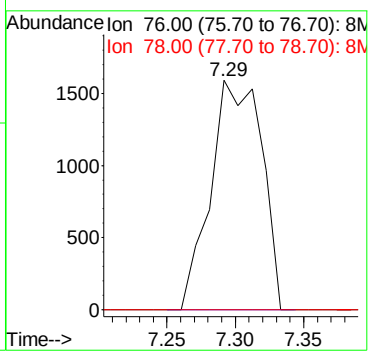




#20
Carbon Disulfide
Concen: 0.24 ug/L
RT: 7.29 min Scan# 484
Delta R.T. -0.01 min
Lab File: 8M405892.D
Acq: 3 Jul 2015 21:23

Tgt Ion: 76 Resp: 4122

Ion	Ratio	Lower	Upper
76	100		
78	0.0	5.7	13.3#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405893.D Vial: 17
Acq On : 3 Jul 2015 21:52 Operator: ADC/ JDS
Sample : L15061450-10 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:34 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

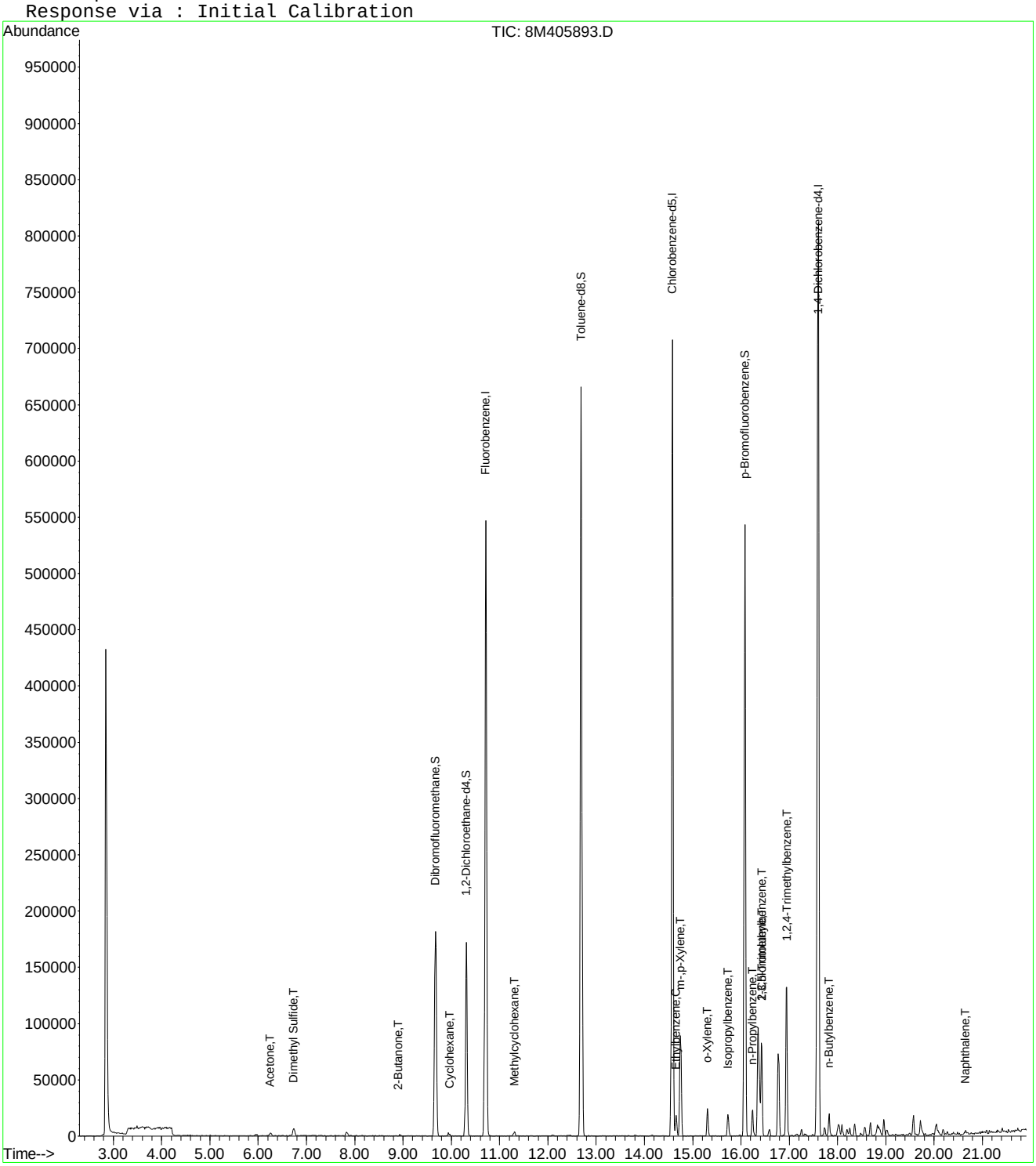
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	634451	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	451214	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	244658	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	152126	25.8450	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 103.36%			
43) 1,2-Dichloroethane-d4	10.31	65	150006	26.0550	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 104.20%			
58) Toluene-d8	12.69	98	579407	25.9590	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.84%			
80) p-Bromofluorobenzene	16.08	95	221094	25.2943	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.16%			
Target Compounds						Qvalue
13) Acetone	6.25	43	5641	7.2371	ug/L	99
16) Dimethyl Sulfide	6.73	62	4473	0.8859	ug/L	96
29) 2-Butanone	8.90	43	449	0.3411	ug/L #	57
39) Cyclohexane	9.97	56	2024	0.7008	ug/L #	80
48) Methylcyclohexane	11.31	83	2394	0.2559	ug/L	86
72) Ethylbenzene	14.65	106	5519	0.5888	ug/L	92
73) m-,p-Xylene	14.75	106	33333	3.0197	ug/L	100
74) o-Xylene	15.30	106	8401	0.7846	ug/L	79
77) Isopropylbenzene	15.73	105	21376	0.7958	ug/L	92
83) n-Propylbenzene	16.24	91	28308	0.8513	ug/L	96
85) 1,3,5-Trimethylbenzene	16.43	105	59945	2.5848	ug/L	99
86) 2-Chlorotoluene	16.43	91	6782	0.3230	ug/L #	42
90) 1,2,4-Trimethylbenzene	16.95	105	103595	4.3823	ug/L	89
95) n-Butylbenzene	17.83	91	4837	0.2054	ug/L #	1
100) Naphthalene	20.65	128	1727	0.1450	ug/L #	67

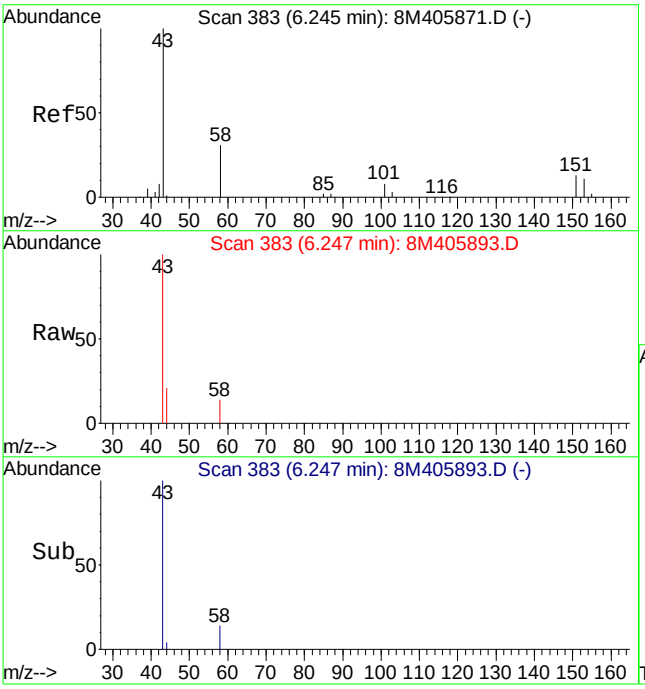
(#) = qualifier out of range (m) = manual integration
8M405893.D 8260WT.M Mon Jul 06 10:26:35 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405893.D Vial: 17
Acq On : 3 Jul 2015 21:52 Operator: ADC/ JDS
Sample : L15061450-10 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

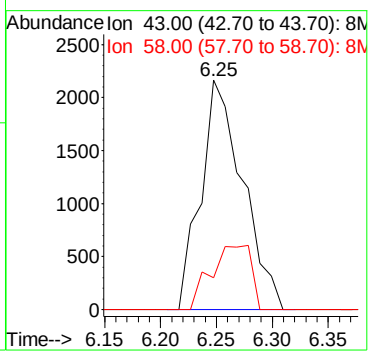


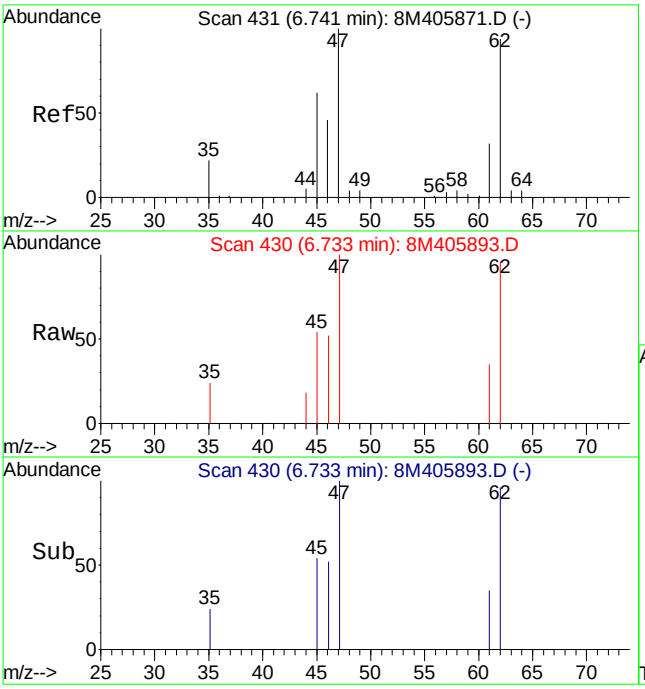


#13
Acetone
Concen: 7.24 ug/L
RT: 6.25 min Scan# 383
Delta R.T. 0.00 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion: 43 Resp: 5641

Ion	Ratio	Lower	Upper
43	100		
58	26.9	16.4	38.2

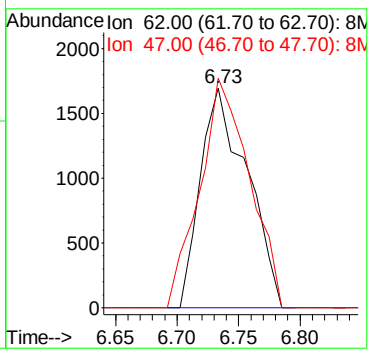


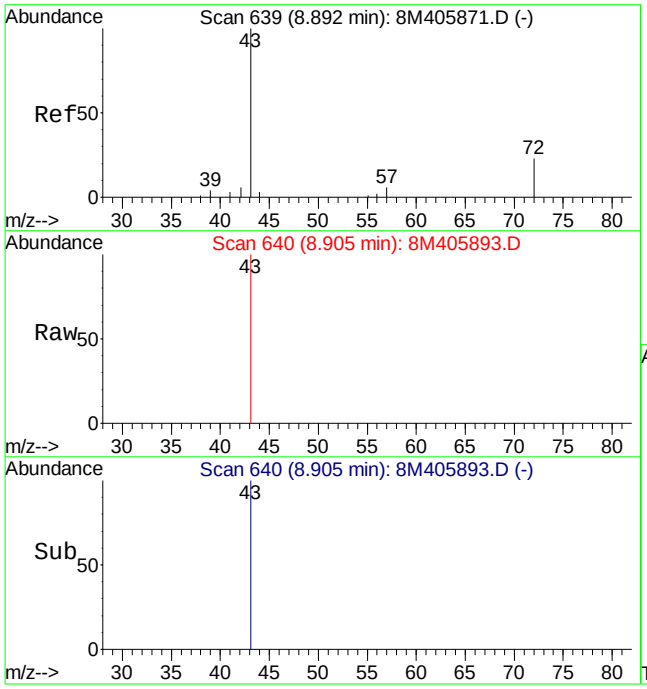


#16
Dimethyl Sulfide
Concen: 0.89 ug/L
RT: 6.73 min Scan# 430
Delta R.T. -0.01 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion: 62 Resp: 4473

Ion	Ratio	Lower	Upper
62	100		
47	111.2	64.3	149.9

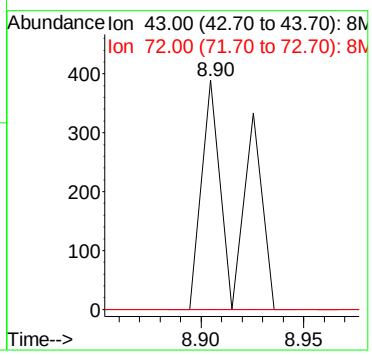


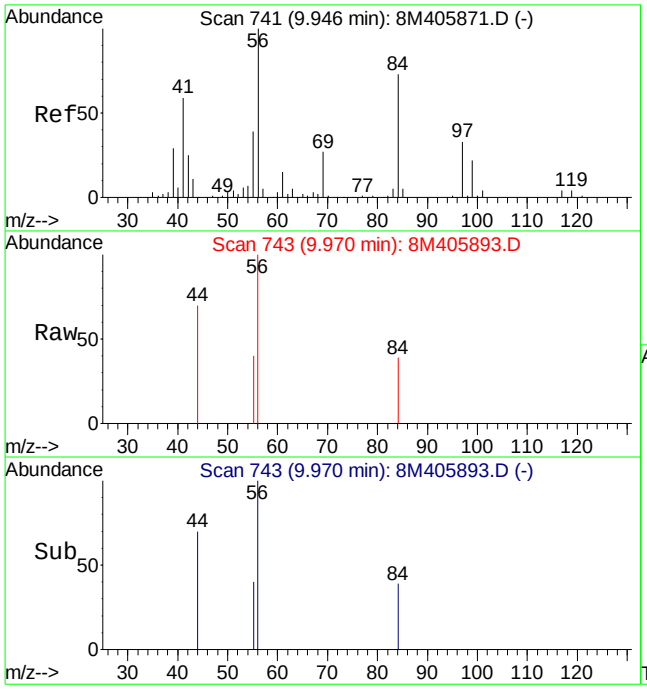


#29
2-Butanone
Concen: 0.34 ug/L
RT: 8.90 min Scan# 640
Delta R.T. 0.01 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion: 43 Resp: 449

Ion	Ratio	Lower	Upper
43	100		
72	0.0	11.9	27.9#

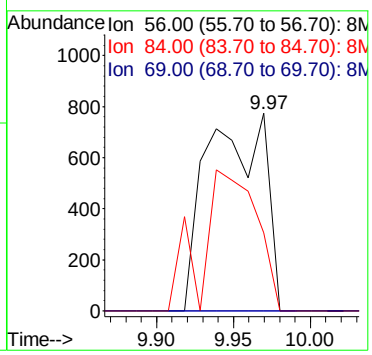


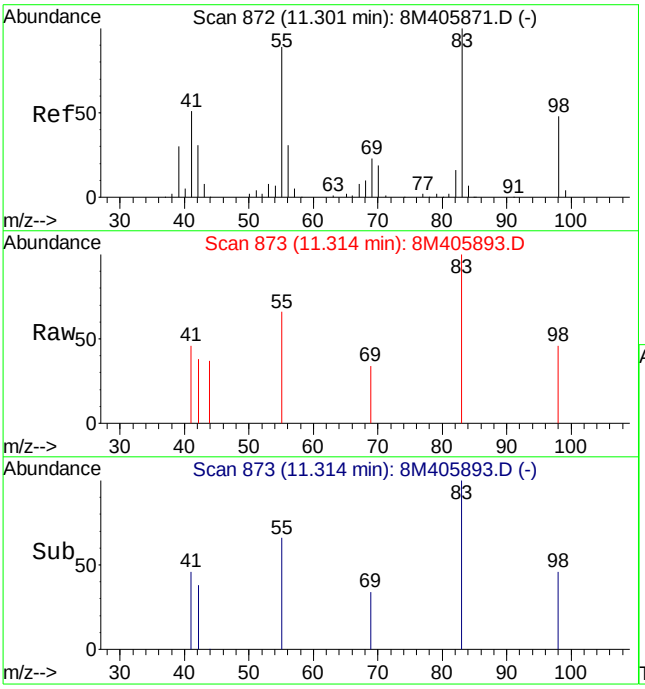


#39
Cyclohexane
Concen: 0.70 ug/L
RT: 9.97 min Scan# 743
Delta R.T. 0.02 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion: 56 Resp: 2024

Ion	Ratio	Lower	Upper
56	100		
84	67.6	45.4	105.8
69	0.0	15.8	37.0#

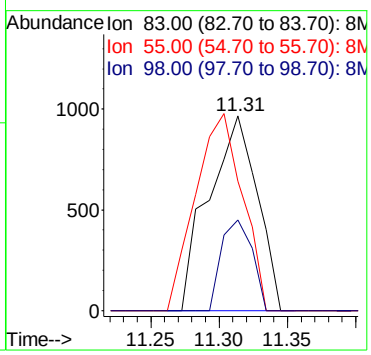


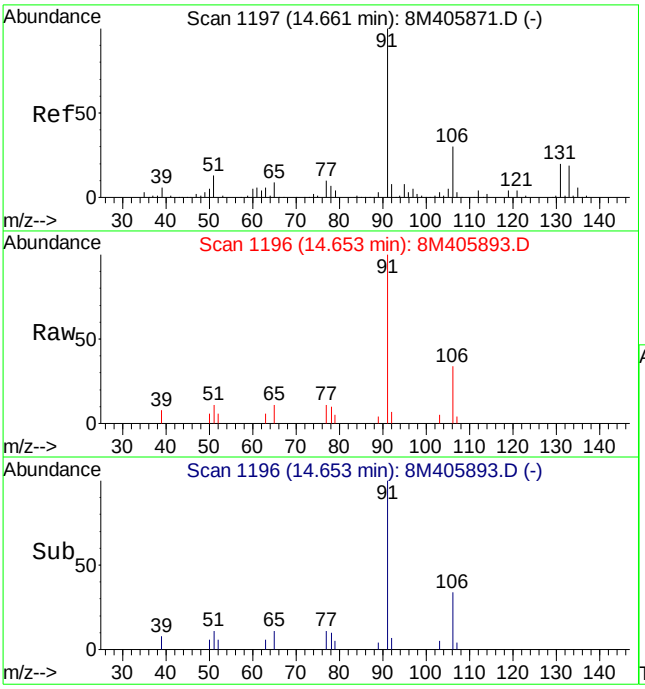


#48
Methylcyclohexane
Concen: 0.26 ug/L
RT: 11.31 min Scan# 873
Delta R.T. 0.01 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion: 83 Resp: 2394

Ion	Ratio	Lower	Upper
83	100		
55	97.8	54.8	128.0
98	29.4	29.0	67.8

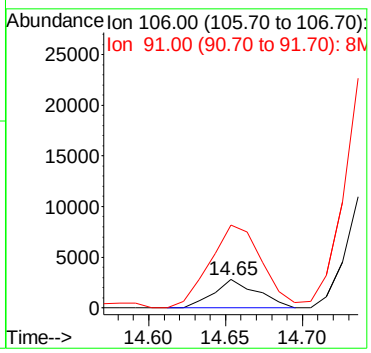


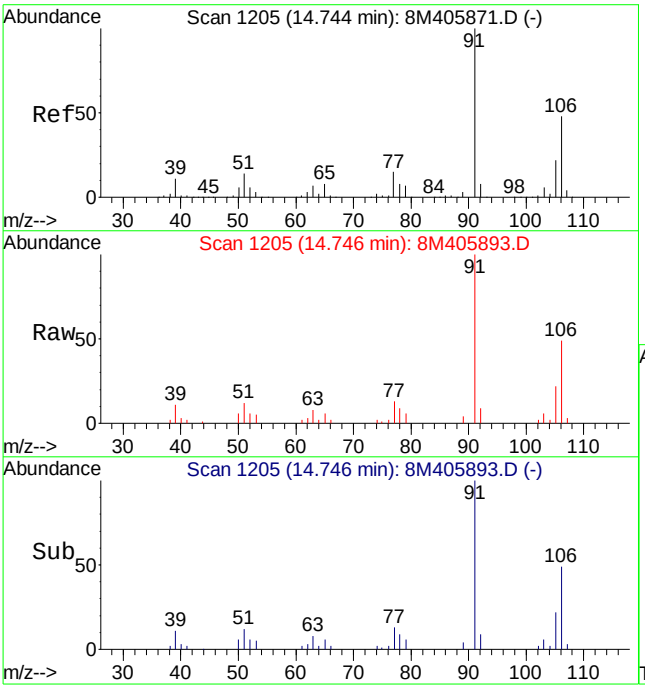


#72
Ethylbenzene
Concen: 0.59 ug/L
RT: 14.65 min Scan# 1196
Delta R.T. -0.01 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion:106 Resp: 5519

Ion	Ratio	Lower	Upper
106	100		
91	349.3	199.7	466.1

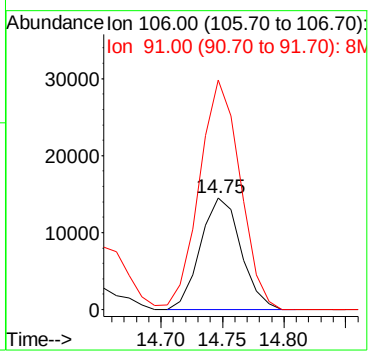


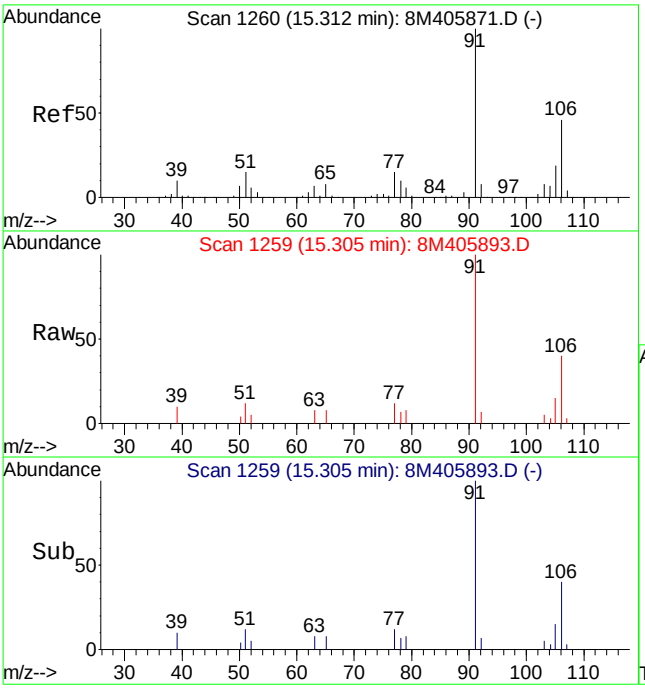


#73
m-,p-Xylene
Concen: 3.02 ug/L
RT: 14.75 min Scan# 1205
Delta R.T. 0.00 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion:106 Resp: 33333

Ion	Ratio	Lower	Upper
106	100		
91	207.7	125.1	291.9

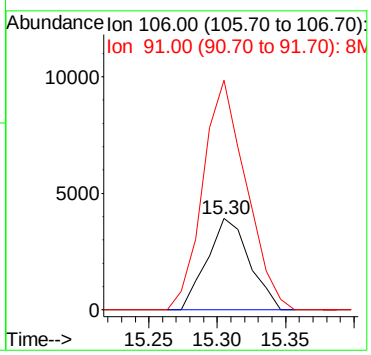


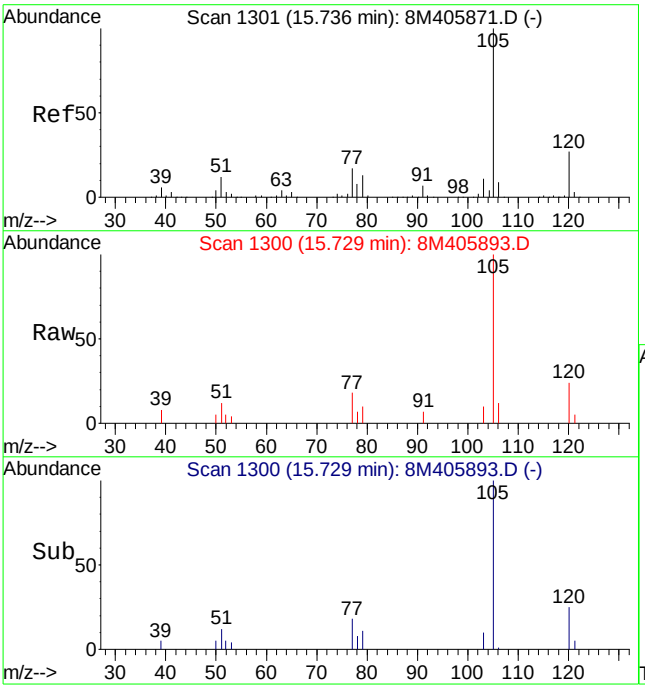


#74
o-Xylene
Concen: 0.78 ug/L
RT: 15.30 min Scan# 1259
Delta R.T. -0.01 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion:106 Resp: 8401

Ion	Ratio	Lower	Upper
106	100		
91	257.5	134.3	313.5

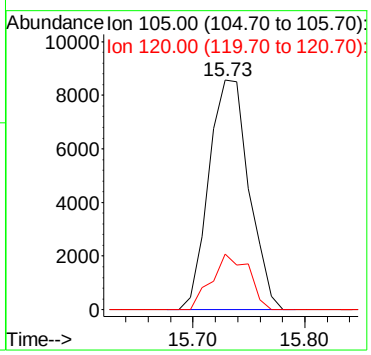


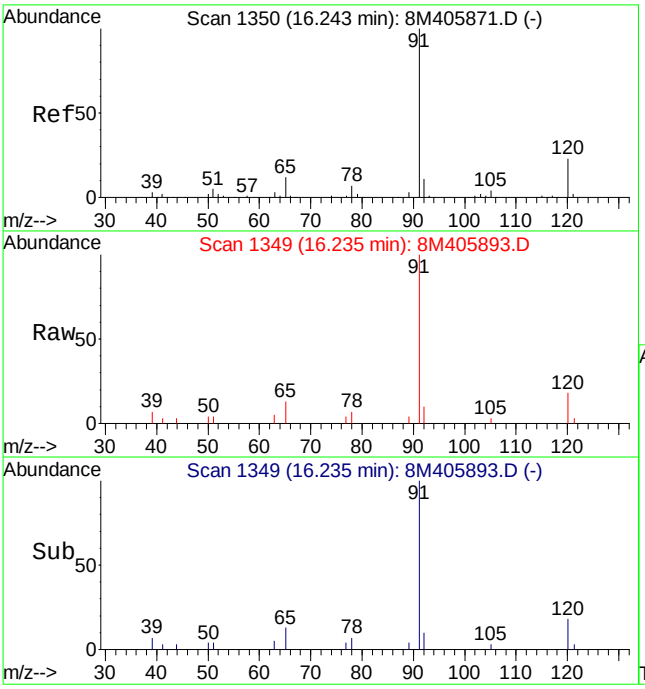


#77
Isopropylbenzene
Concen: 0.80 ug/L
RT: 15.73 min Scan# 1300
Delta R.T. -0.01 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion:105 Resp: 21376

Ion	Ratio	Lower	Upper
105	100		
120	22.4	16.0	37.2

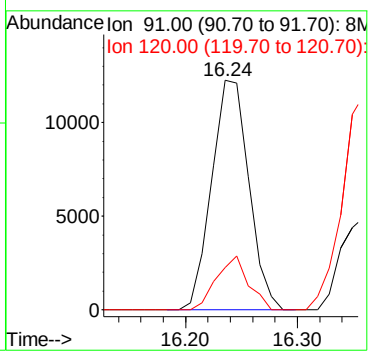


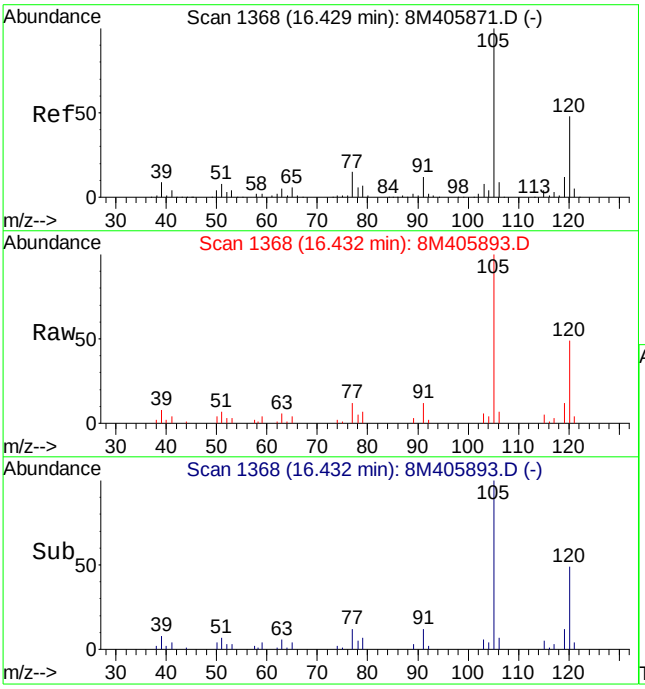


#83
n-Propylbenzene
Concen: 0.85 ug/L
RT: 16.24 min Scan# 1349
Delta R.T. -0.01 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion: 91 Resp: 28308

Ion	Ratio	Lower	Upper
91	100		
120	20.0	13.1	30.5

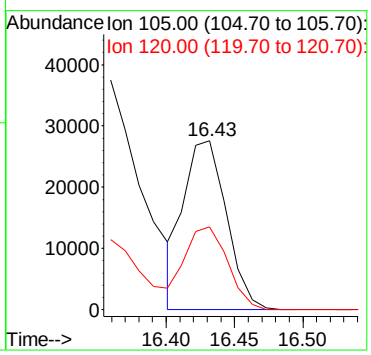


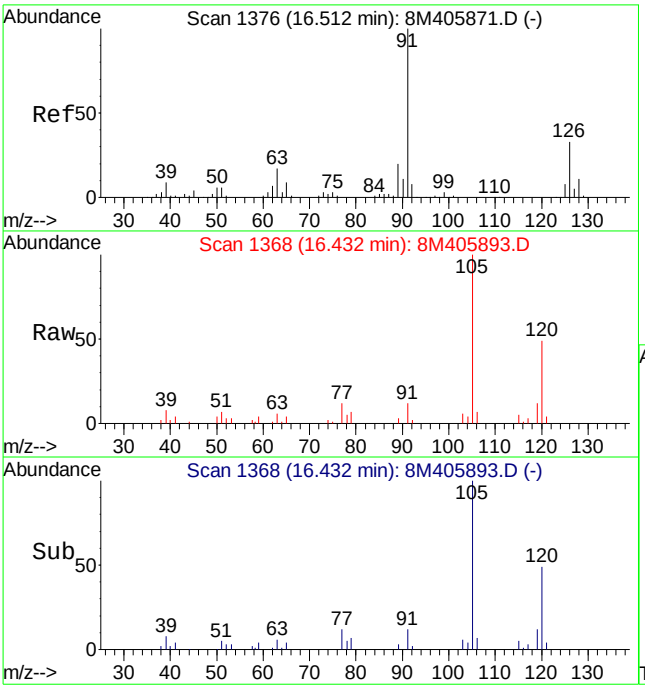


#85
1,3,5-Trimethylbenzene
Concen: 2.58 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. 0.00 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion:105 Resp: 59945

Ion	Ratio	Lower	Upper
105	100		
120	49.0	28.8	67.2

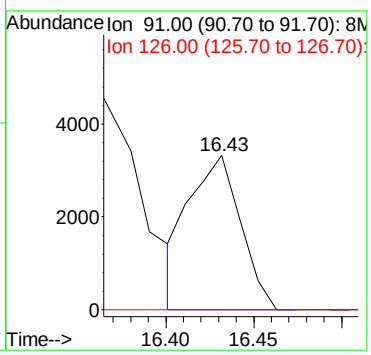


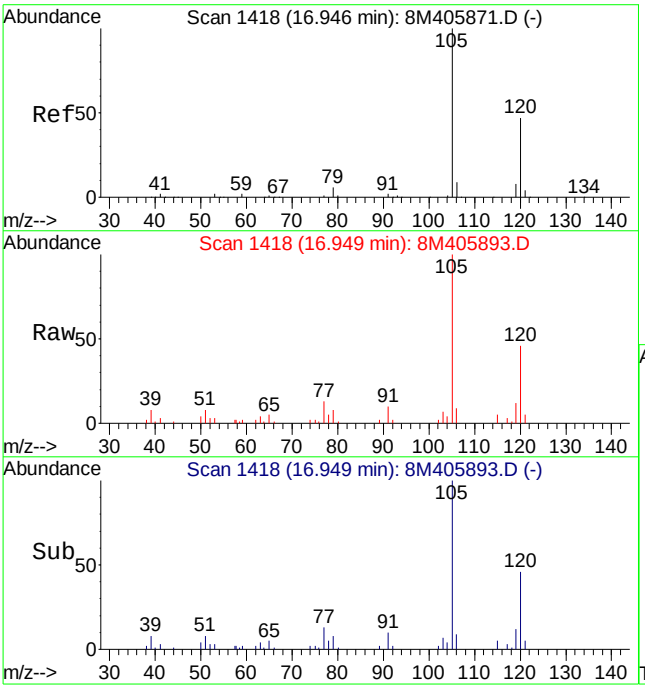


#86
2-Chlorotoluene
Concen: 0.32 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.08 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion: 91 Resp: 6782

Ion	Ratio	Lower	Upper
91	100		
126	0.0	19.4	45.4#

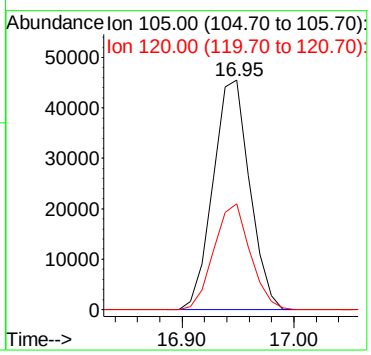


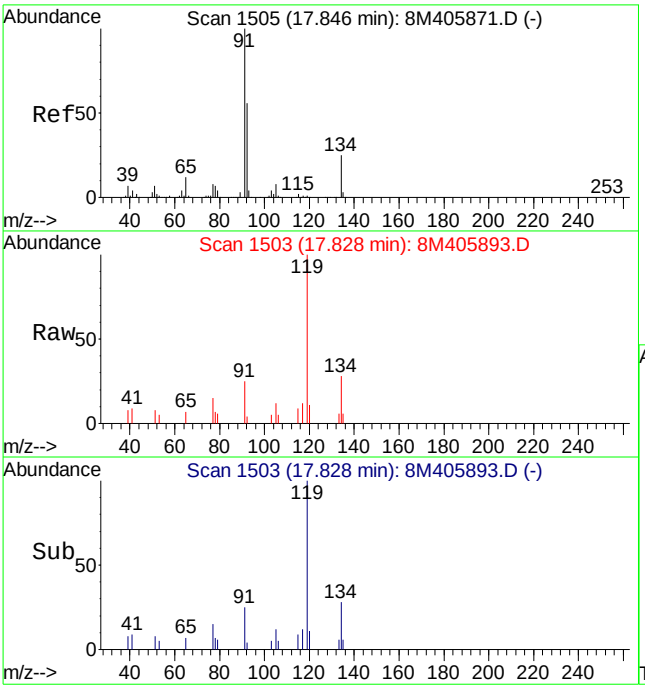


#90
1,2,4-Trimethylbenzene
Concen: 4.38 ug/L
RT: 16.95 min Scan# 1418
Delta R.T. 0.00 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion:105 Resp: 103595

Ion	Ratio	Lower	Upper
105	100		
120	45.8	32.3	75.5

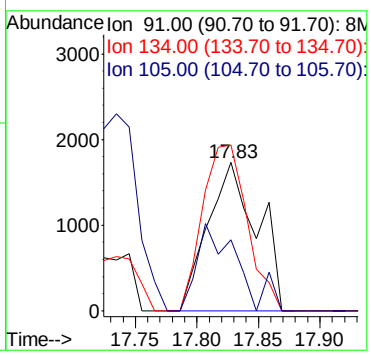


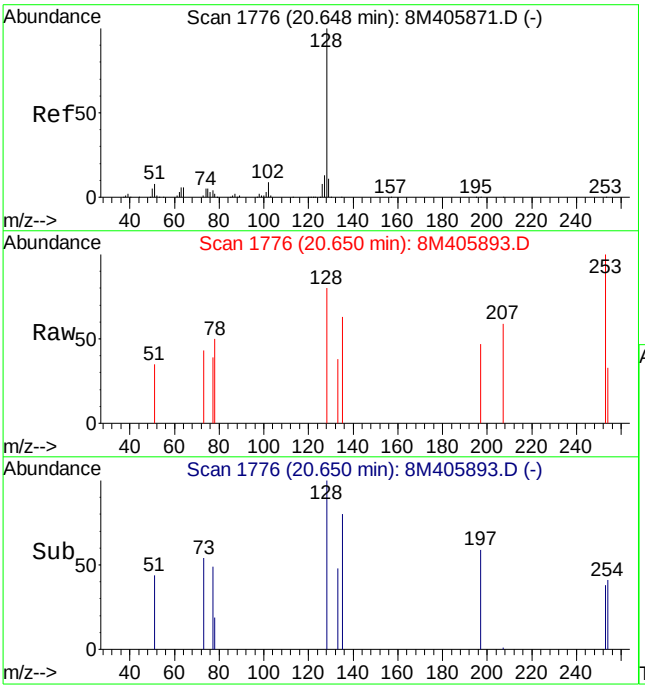


#95
n-Butylbenzene
Concen: 0.21 ug/L
RT: 17.83 min Scan# 1503
Delta R.T. -0.02 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion: 91 Resp: 4837

Ion	Ratio	Lower	Upper
91	100		
134	101.2	14.4	33.6#
105	48.4	5.0	11.8#

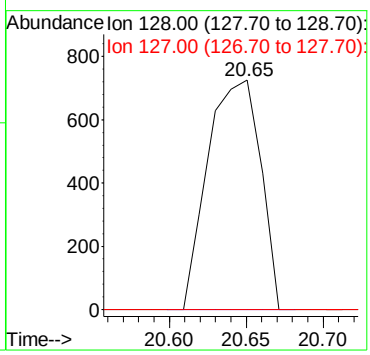




#100
Naphthalene
Concen: 0.15 ug/L
RT: 20.65 min Scan# 1776
Delta R.T. 0.00 min
Lab File: 8M405893.D
Acq: 3 Jul 2015 21:52

Tgt Ion:128 Resp: 1727

Ion	Ratio	Lower	Upper
128	100		
127	0.0	8.0	18.6#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405894.D Vial: 18
Acq On : 3 Jul 2015 22:20 Operator: ADC/ JDS
Sample : L15061450-11 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:36 2015 Quant Results File: 8260WT.RES

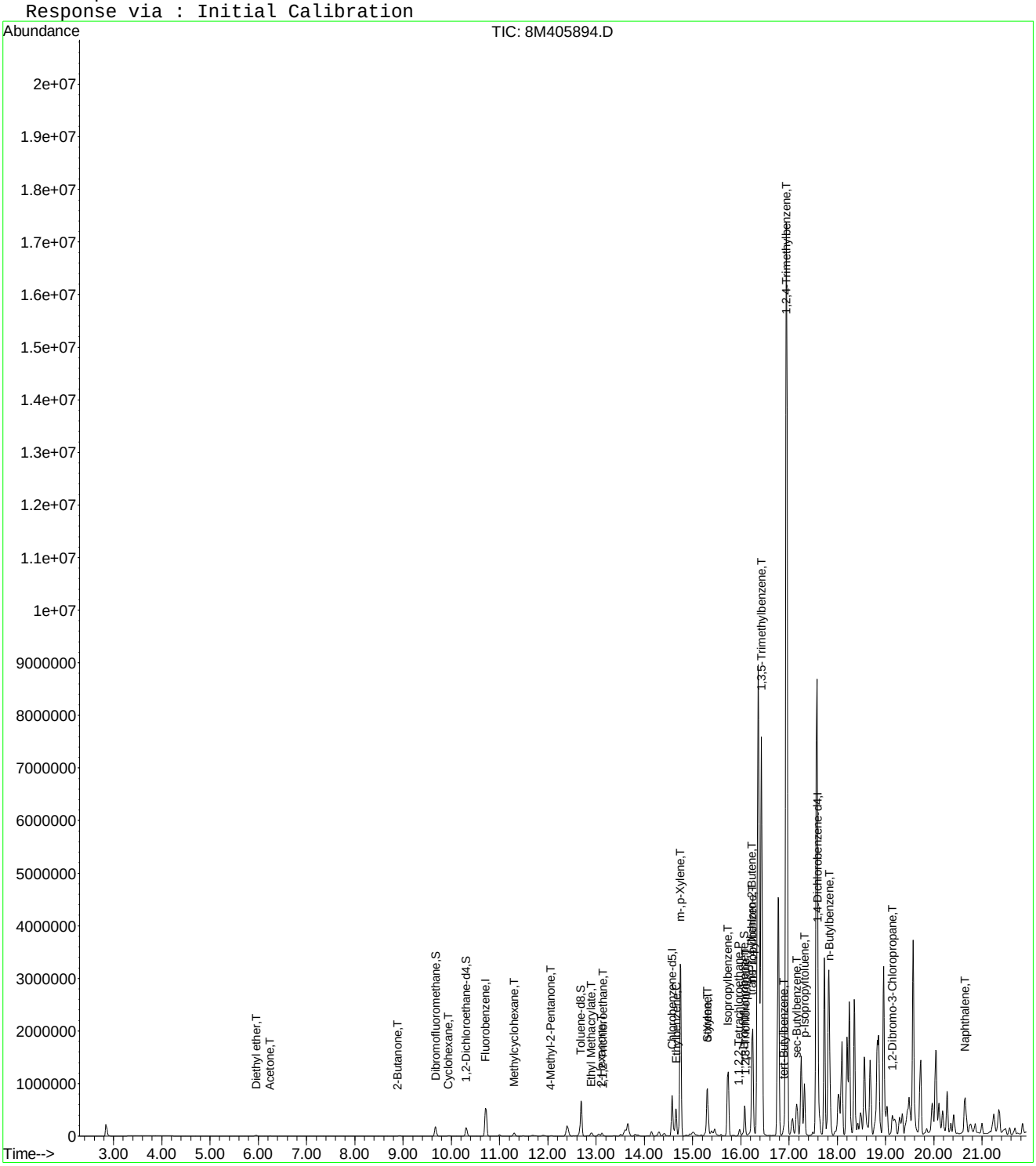
Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

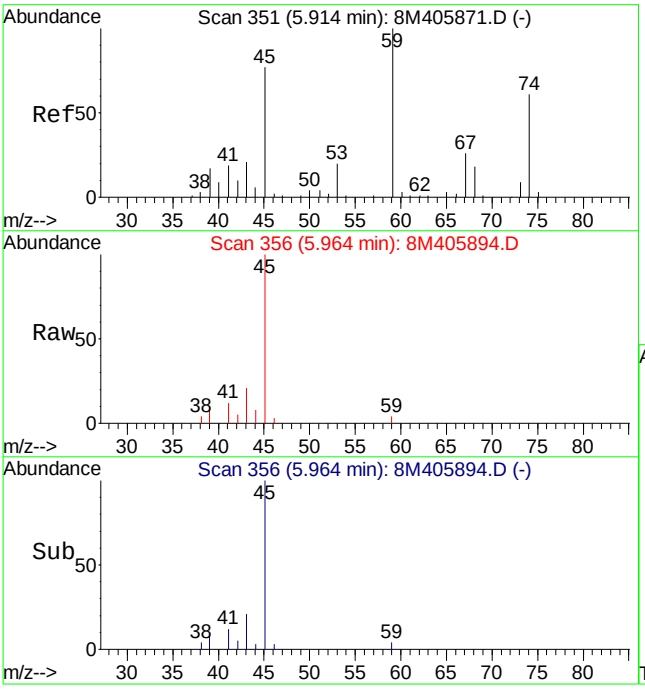
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	638392	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	448320	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	279406	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.68	111	149351	25.2169	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.88%			
43) 1,2-Dichloroethane-d4	10.31	65	146491	25.2874	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 101.16%			
58) Toluene-d8	12.68	98	578572	26.0889	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.36%			
80) p-Bromofluorobenzene	16.08	95	236842	23.7262	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 94.92%			
Target Compounds						Qvalue
9) Diethyl ether	5.96	59	879	0.2313	ug/L #	1
13) Acetone	6.24	43	9692	12.3576	ug/L	88
29) 2-Butanone	8.89	43	9456	7.1383	ug/L	84
39) Cyclohexane	9.94	56	12662	1.5742	ug/L	91
48) Methylcyclohexane	11.30	83	37284	3.9604	ug/L	98
54) 4-Methyl-2-Pentanone	12.06	58	1995	1.6660	ug/L #	52
60) Ethyl Methacrylate	12.90	69	10501	2.3062	ug/L #	1
63) 1,1,2-Trichloroethane	13.14	97	567	0.1486	ug/L #	1
64) 2-Hexanone	13.12	58	23571	21.3809	ug/L #	79
72) Ethylbenzene	14.66	106	114826	12.3300	ug/L	91
73) m-,p-Xylene	14.75	106	1208221	110.1611	ug/L	99
74) o-Xylene	15.31	106	306876	28.8454	ug/L	96
75) Styrene	15.31	104	15804	0.9243	ug/L #	1
77) Isopropylbenzene	15.73	105	1089816	40.8361	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.96	83	8942	1.8965	ug/L #	59
81) 1,2,3-Trichloropropane	16.10	110	246	0.1817	ug/L #	1
82) trans-1,4-Dichloro-2-Buten	16.23	53	23463	14.1080	ug/L #	1
83) n-Propylbenzene	16.24	91	2135943	56.2458	ug/L	100
85) 1,3,5-Trimethylbenzene	16.43	105	5001263	188.8351	ug/L	95
89) tert-Butylbenzene	16.89	134	15926	2.9506	ug/L #	1
90) 1,2,4-Trimethylbenzene	16.94	105	9237986	342.1872	ug/L	91
91) sec-Butylbenzene	17.16	105	582560	18.4587	ug/L	100
92) p-Isopropyltoluene	17.32	119	730432	26.6325	ug/L	100
95) n-Butylbenzene	17.83	91	928589	34.5266	ug/L #	1
97) 1,2-Dibromo-3-Chloropropan	19.15	75	6568	7.8778	ug/L #	1
100) Naphthalene	20.65	128	571583	42.0316	ug/L	100

(#) = qualifier out of range (m) = manual integration
8M405894.D 8260WT.M Mon Jul 06 10:26:37 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070315\8M405894.D Vial: 18
Acq On : 3 Jul 2015 22:20 Operator: ADC/ JDS
Sample : L15061450-11 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

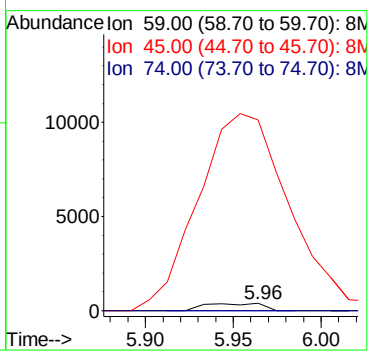


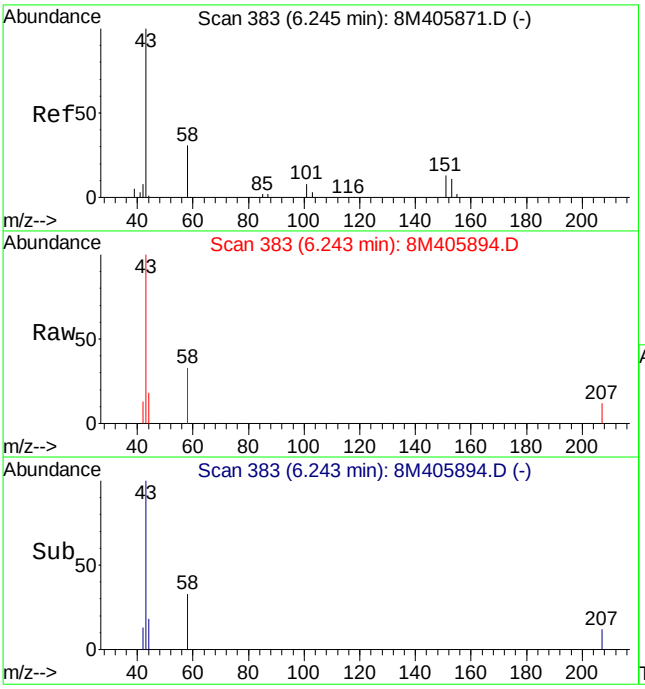


#9
Diethyl ether
Concen: 0.23 ug/L
RT: 5.96 min Scan# 356
Delta R.T. 0.05 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 59 Resp: 879

Ion	Ratio	Lower	Upper
59	100		
45	4372.8	49.3	115.1#
74	0.0	38.6	90.2#

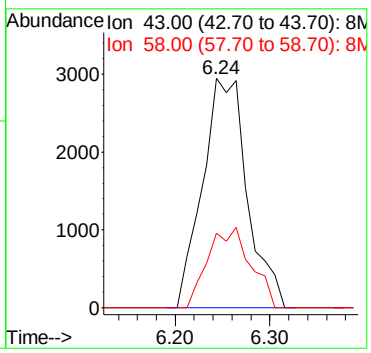


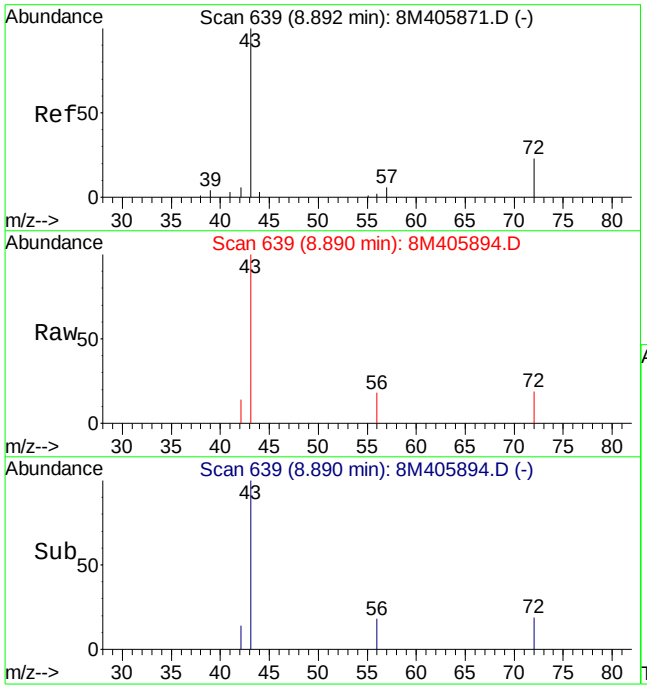


#13
Acetone
Concen: 12.36 ug/L
RT: 6.24 min Scan# 383
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 43 Resp: 9692

Ion	Ratio	Lower	Upper
43	100		
58	33.5	16.4	38.2

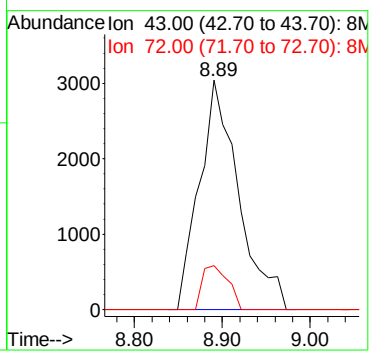


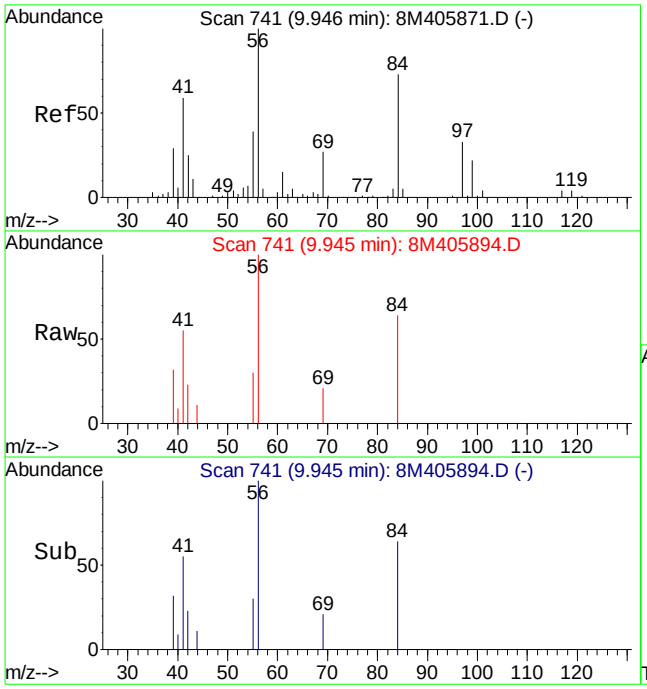


#29
2-Butanone
Concen: 7.14 ug/L
RT: 8.89 min Scan# 639
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 43 Resp: 9456

Ion	Ratio	Lower	Upper
43	100		
72	12.6	11.9	27.9

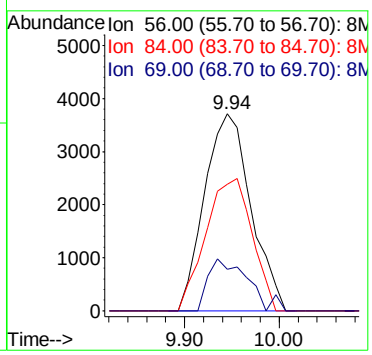


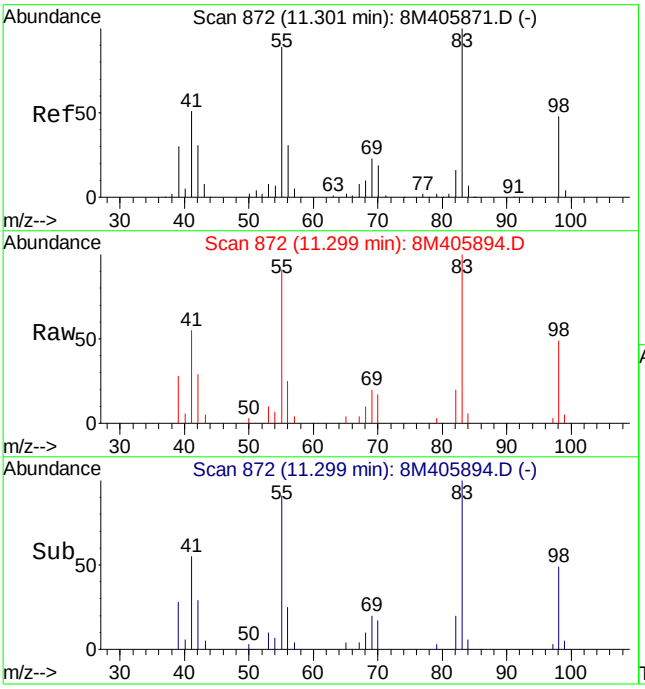


#39
Cyclohexane
Concen: 1.57 ug/L
RT: 9.94 min Scan# 741
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 56 Resp: 12662

Ion	Ratio	Lower	Upper
56	100		
84	67.3	45.4	105.8
69	22.8	15.8	37.0

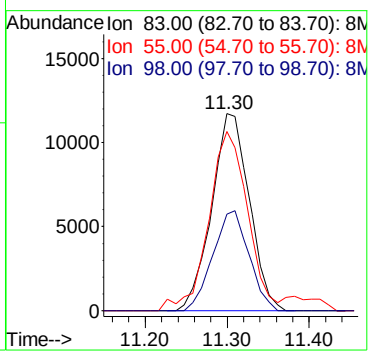


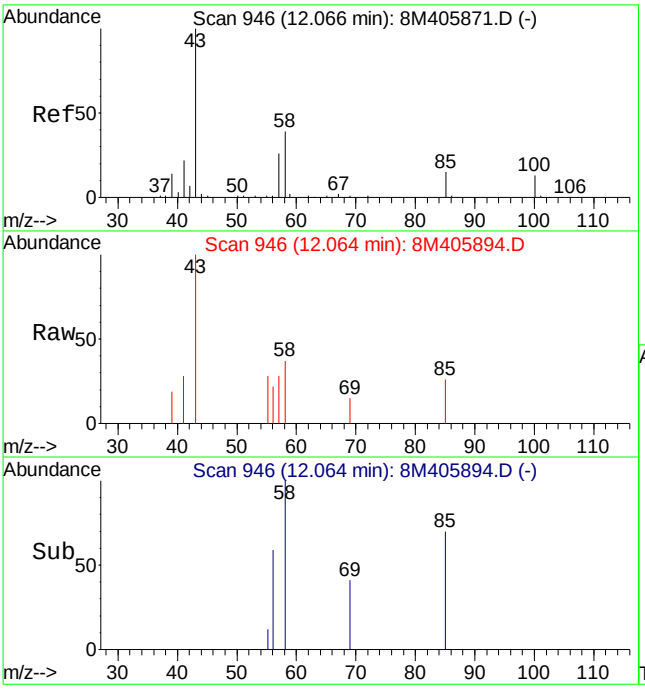


#48
Methylcyclohexane
Concen: 3.96 ug/L
RT: 11.30 min Scan# 872
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 83 Resp: 37284

Ion	Ratio	Lower	Upper
83	100		
55	93.7	54.8	128.0
98	48.6	29.0	67.8

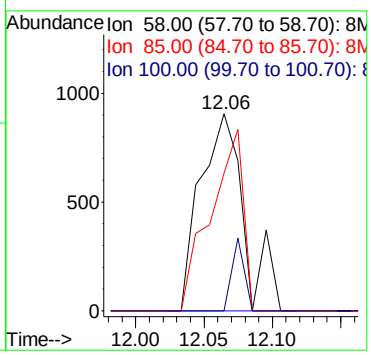


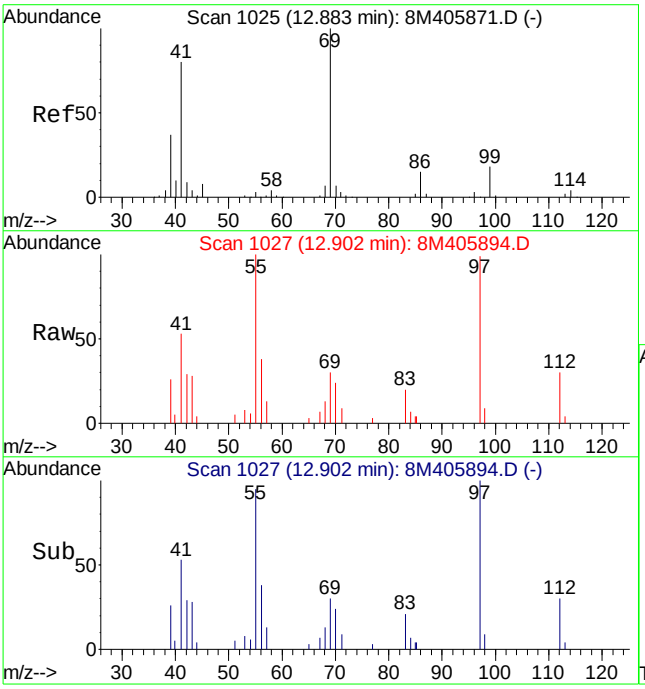


#54
4-Methyl-2-Pentanone
Concen: 1.67 ug/L
RT: 12.06 min Scan# 946
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 58 Resp: 1995

Ion	Ratio	Lower	Upper
58	100		
85	69.0	21.8	51.0#
100	10.4	19.4	45.4#

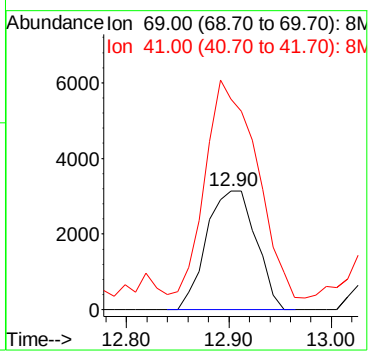


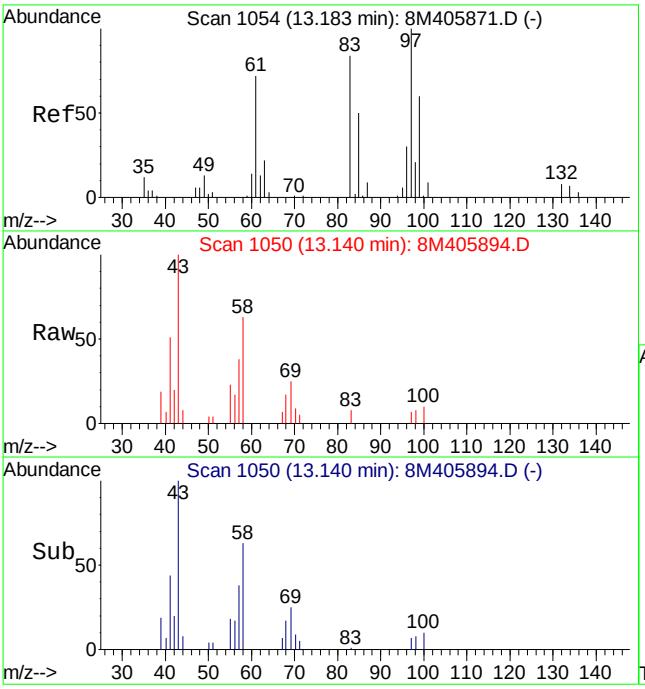


#60
Ethyl Methacrylate
Concen: 2.31 ug/L
RT: 12.90 min Scan# 1027
Delta R.T. 0.02 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 69 Resp: 10501

Ion	Ratio	Lower	Upper
69	100		
41	214.1	48.5	113.3#

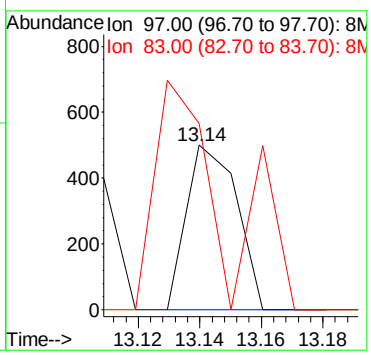


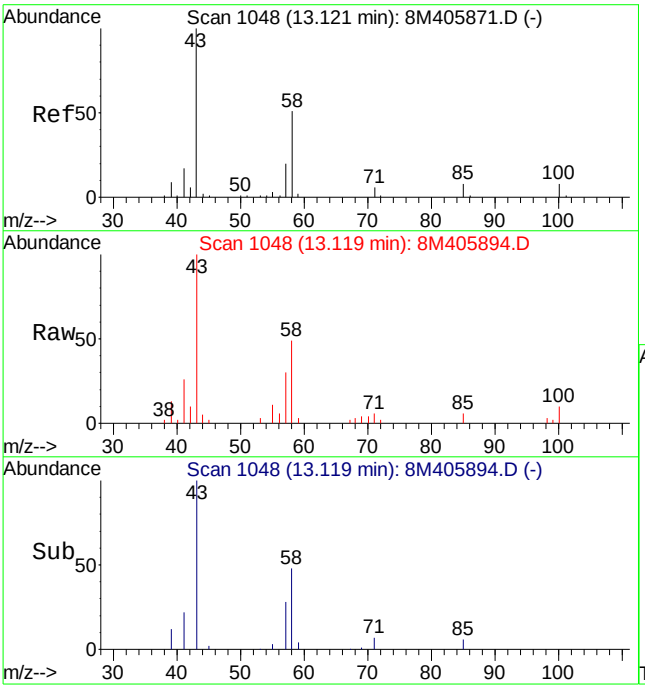


#63
1,1,2-Trichloroethane
Concen: 0.15 ug/L
RT: 13.14 min Scan# 1050
Delta R.T. -0.04 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 97 Resp: 567

Ion	Ratio	Lower	Upper
97	100		
83	192.8	51.1	119.1#

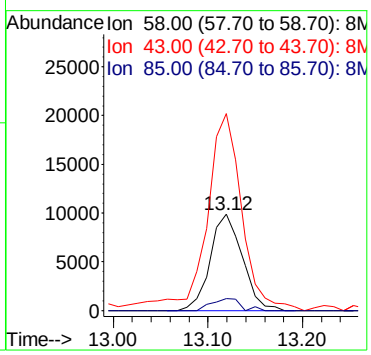


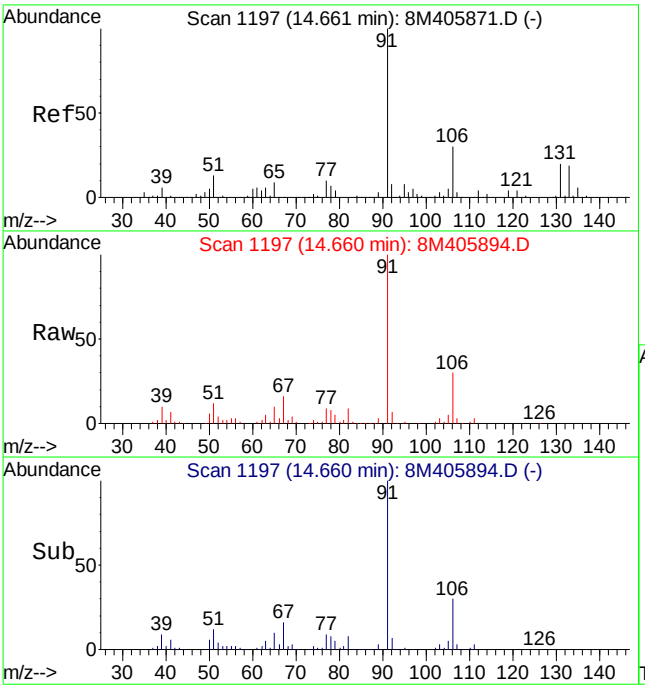


#64
2-Hexanone
Concen: 21.38 ug/L
RT: 13.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 58 Resp: 23571

Ion	Ratio	Lower	Upper
58	100		
43	226.2	116.8	272.4
85	11.2	0.0	0.0#

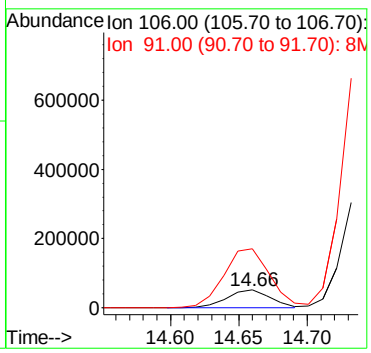


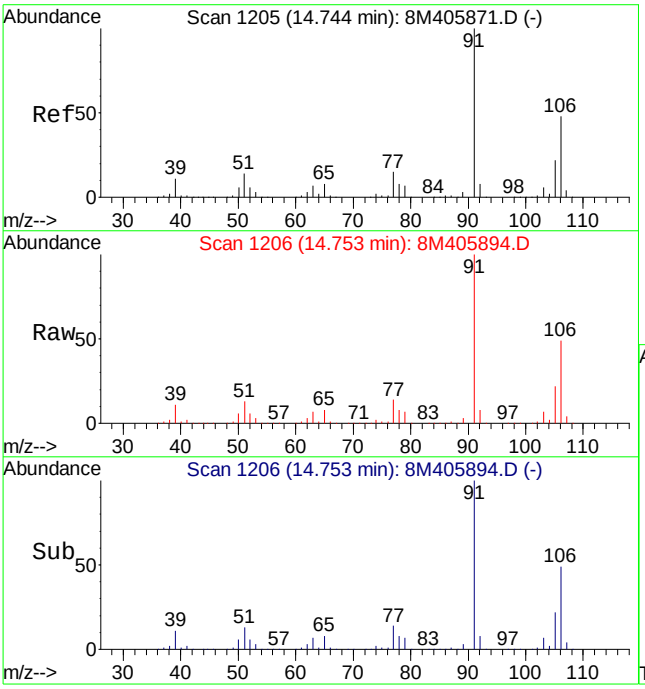


#72
Ethylbenzene
Concen: 12.33 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion:106 Resp: 114826

Ion	Ratio	Lower	Upper
106	100		
91	352.3	199.7	466.1

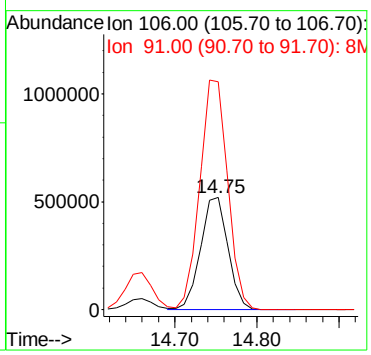


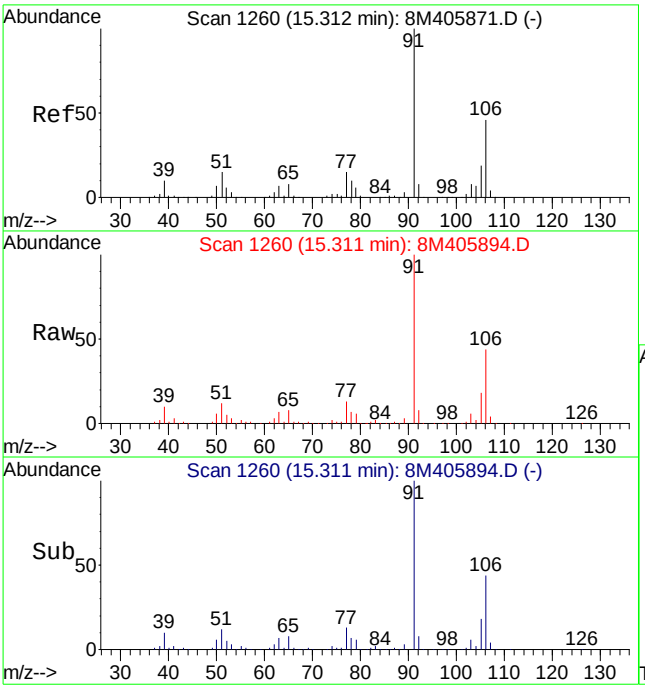


#73
m-,p-Xylene
Concen: 110.16 ug/L
RT: 14.75 min Scan# 1206
Delta R.T. 0.01 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion:106 Resp: 1208221

Ion	Ratio	Lower	Upper
106	100		
91	207.7	125.1	291.9

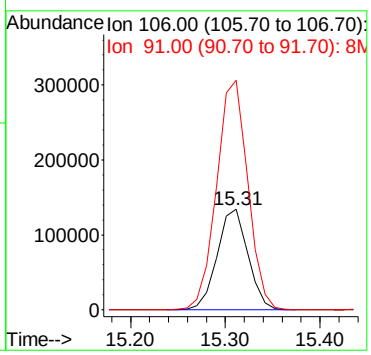


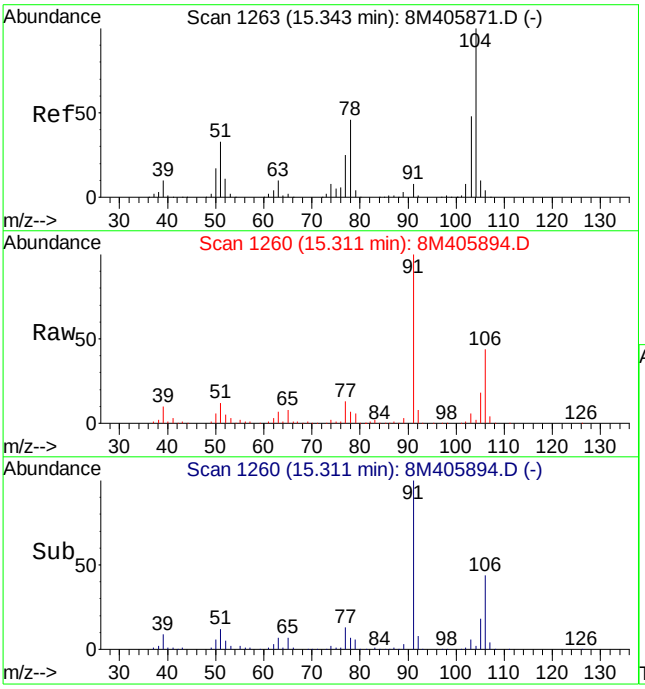


#74
o-Xylene
Concen: 28.85 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion:106 Resp: 306876

Ion	Ratio	Lower	Upper
106	100		
91	231.2	134.3	313.5

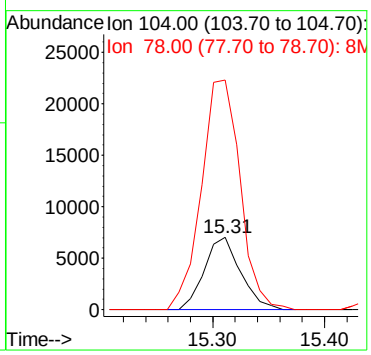


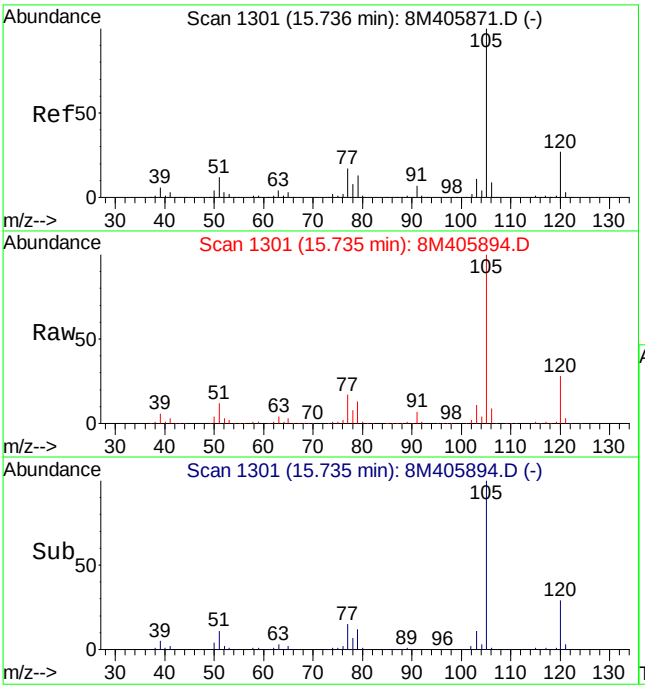


#75
Styrene
Concen: 0.92 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. -0.03 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion:104 Resp: 15804

Ion	Ratio	Lower	Upper
104	100		
78	339.9	32.9	76.7#

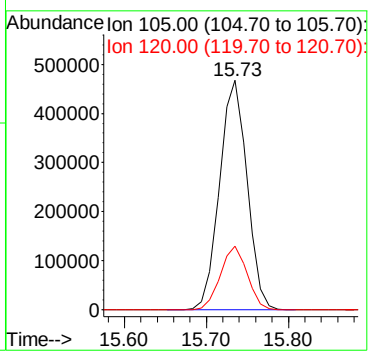


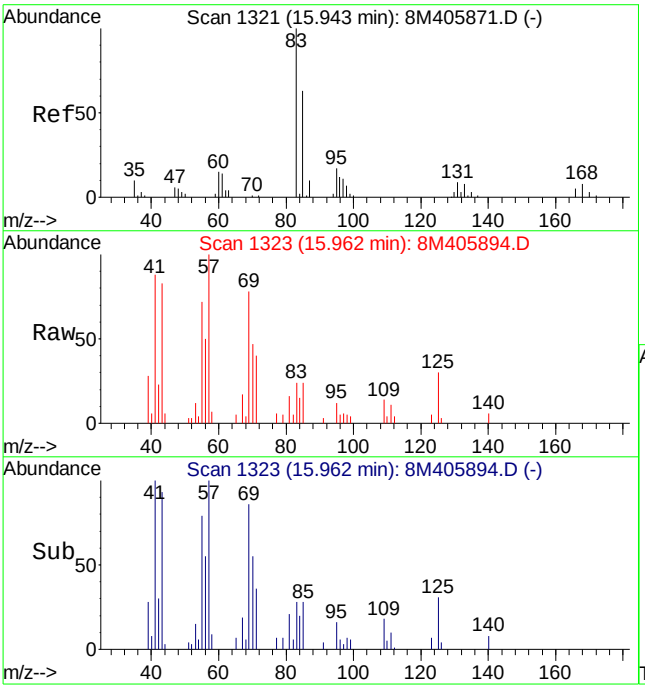


#77
Isopropylbenzene
Concen: 40.84 ug/L
RT: 15.73 min Scan# 1301
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion:105 Resp: 1089816

Ion	Ratio	Lower	Upper
105	100		
120	27.0	16.0	37.2

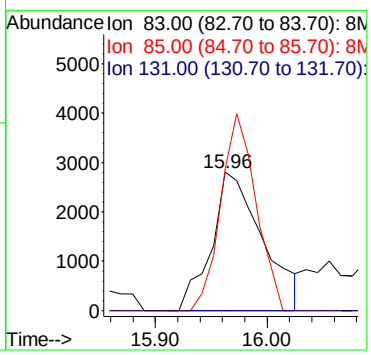


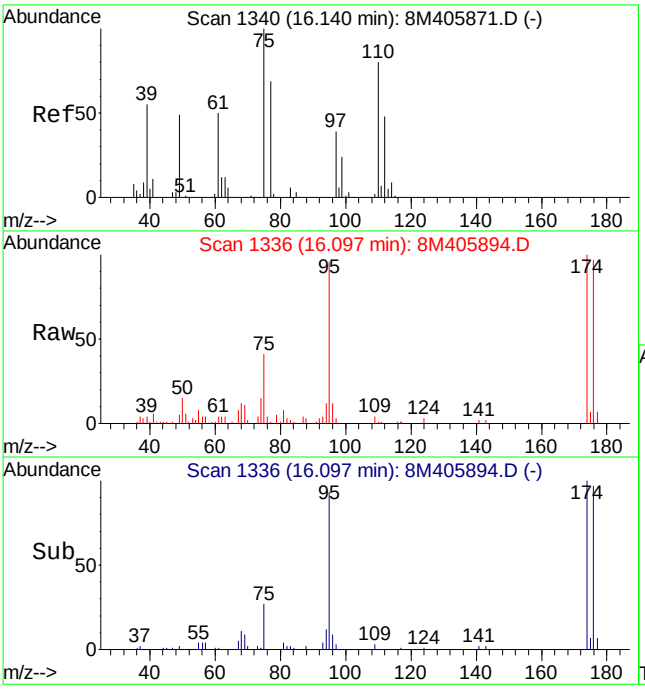


#79
1,1,2,2-Tetrachloroethane
Concen: 1.90 ug/L
RT: 15.96 min Scan# 1323
Delta R.T. 0.02 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 83 Resp: 8942

Ion	Ratio	Lower	Upper
83	100		
85	97.4	38.3	89.3#
131	0.0	5.8	13.4#

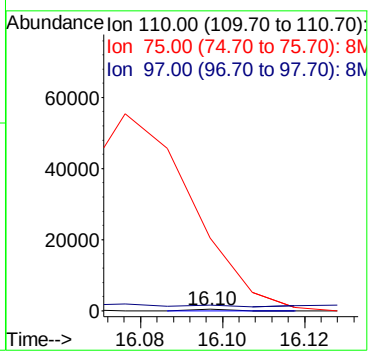


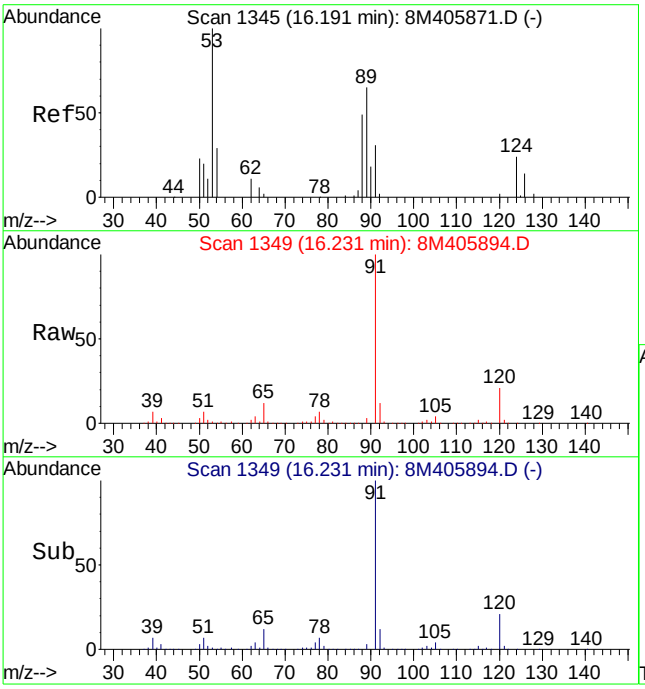


#81
1,2,3-Trichloropropane
Concen: 0.18 ug/L
RT: 16.10 min Scan# 1336
Delta R.T. -0.04 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion:110 Resp: 246

Ion	Ratio	Lower	Upper
110	100		
75	0.0	168.8	393.8#
97	5456.1	31.0	72.2#

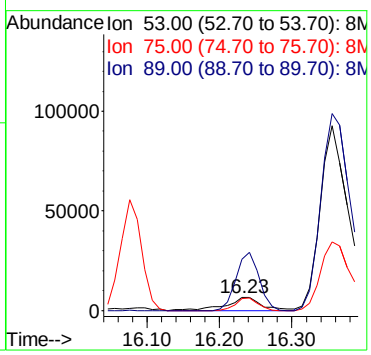


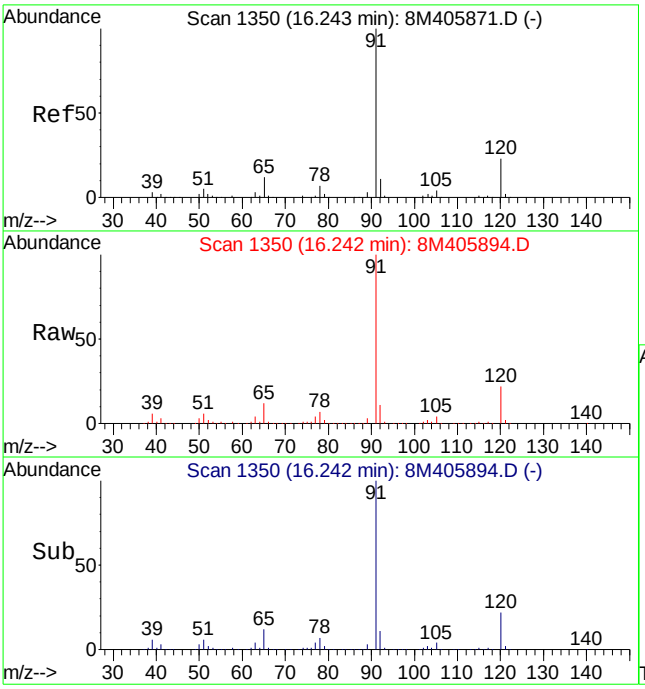


#82
trans-1,4-Dichloro-2-Butene
Concen: 14.11 ug/L
RT: 16.23 min Scan# 1349
Delta R.T. 0.04 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 53 Resp: 23463

Ion	Ratio	Lower	Upper
53	100		
75	58.8	58.5	136.5
89	278.2	33.5	78.1#

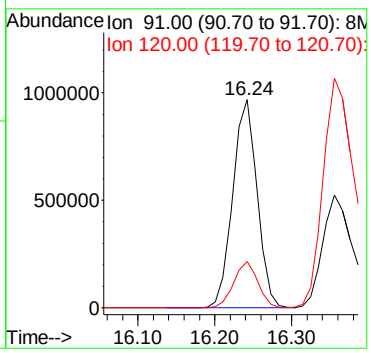


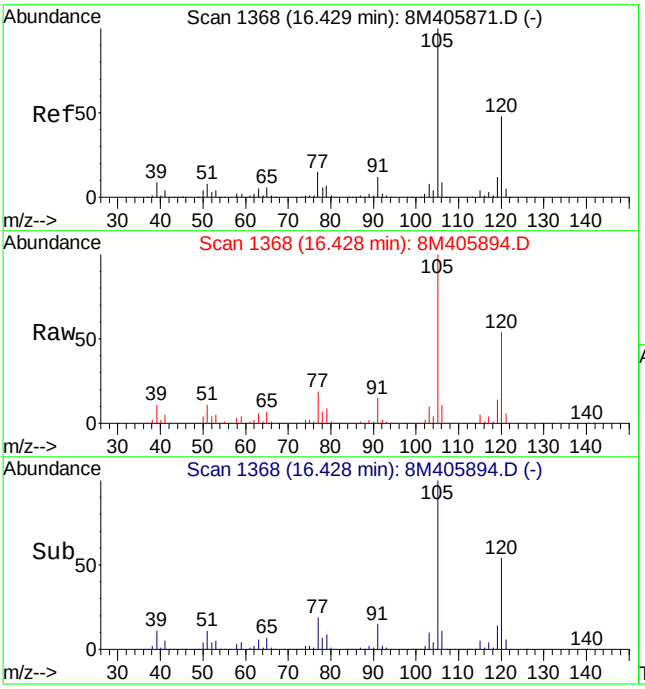


#83
n-Propylbenzene
Concen: 56.25 ug/L
RT: 16.24 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 91 Resp: 2135943

Ion	Ratio	Lower	Upper
91	100		
120	21.8	13.1	30.5

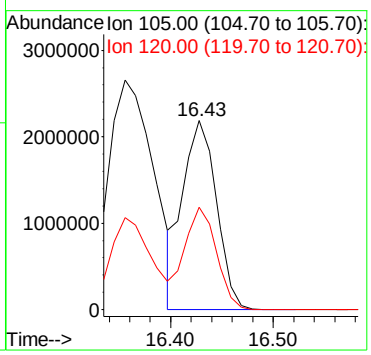


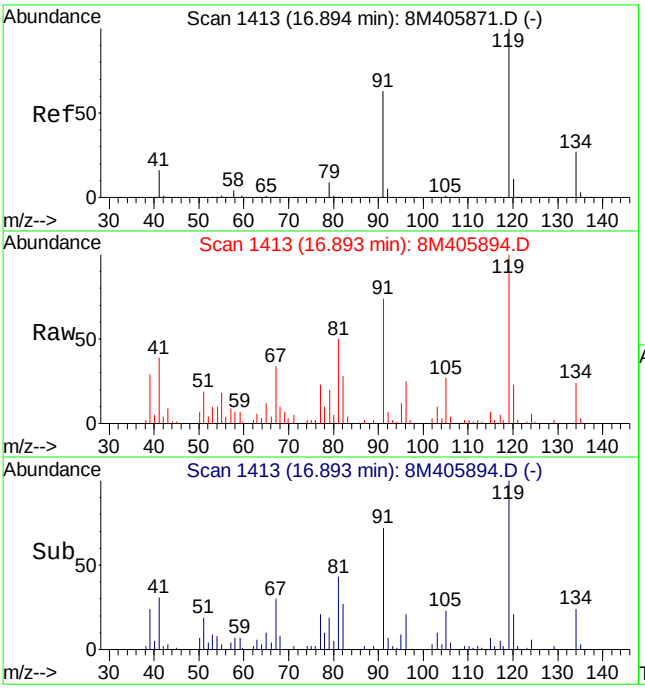


#85
1,3,5-Trimethylbenzene
Concen: 188.84 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion:105 Resp: 5001263

Ion	Ratio	Lower	Upper
105	100		
120	51.7	28.8	67.2

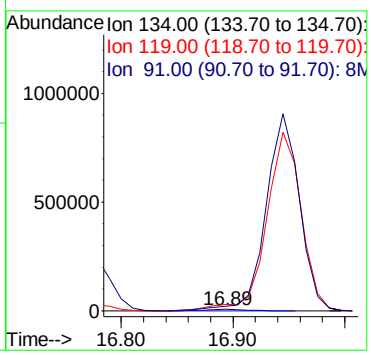


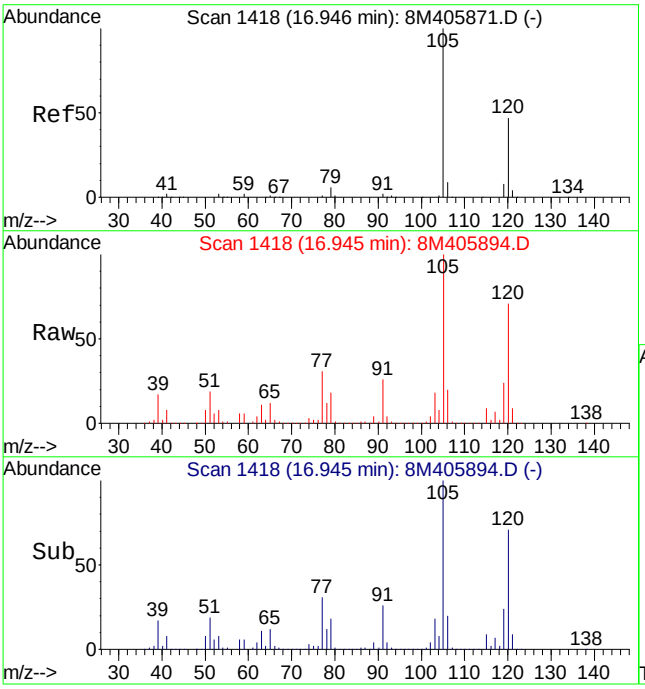


#89
tert-Butylbenzene
Concen: 2.95 ug/L
RT: 16.89 min Scan# 1413
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion:134 Resp: 15926

Ion	Ratio	Lower	Upper
134	100		
119	11091.8	293.9	685.7#
91	11824.9	214.9	501.3#

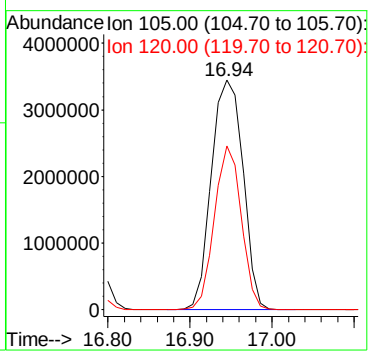


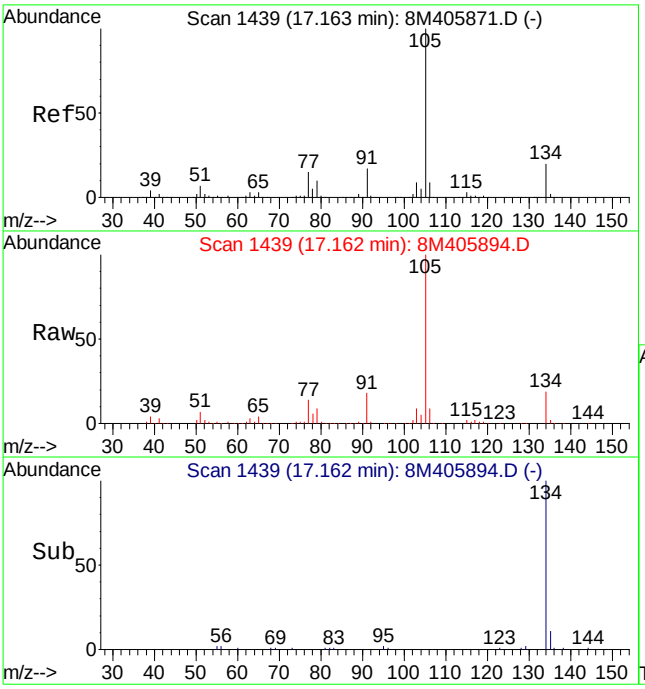


#90
1,2,4-Trimethylbenzene
Concen: 342.19 ug/L
RT: 16.94 min Scan# 1418
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion:105 Resp: 9237986

Ion	Ratio	Lower	Upper
105	100		
120	60.6	32.3	75.5

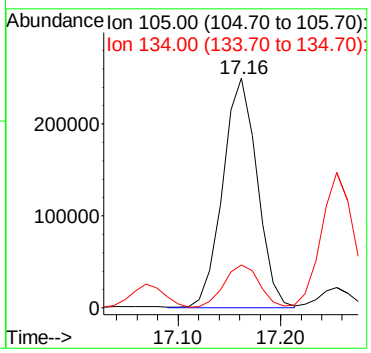


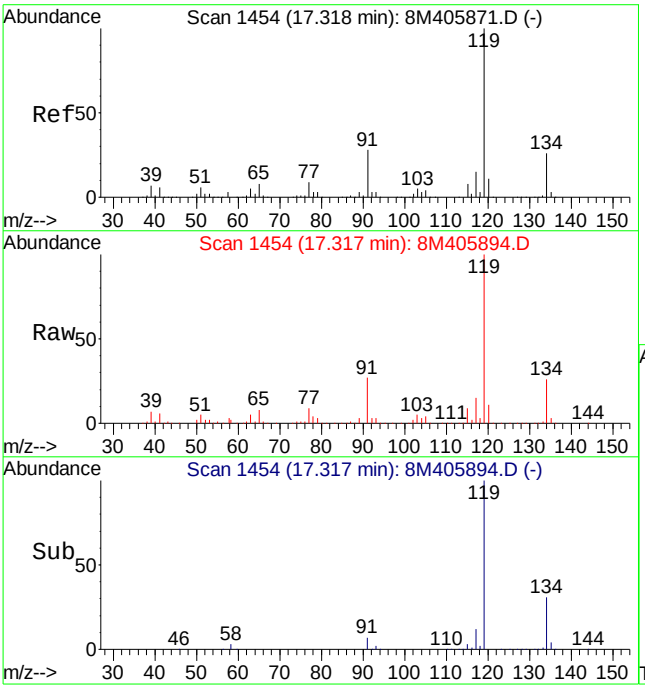


#91
sec-Butylbenzene
Concen: 18.46 ug/L
RT: 17.16 min Scan# 1439
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion:105 Resp: 582560

Ion	Ratio	Lower	Upper
105	100		
134	19.4	11.8	27.4

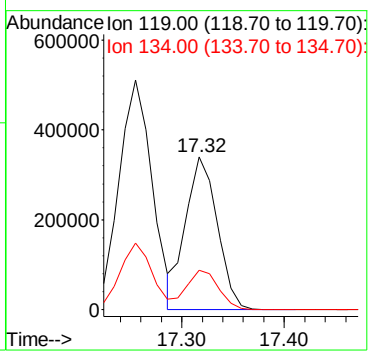


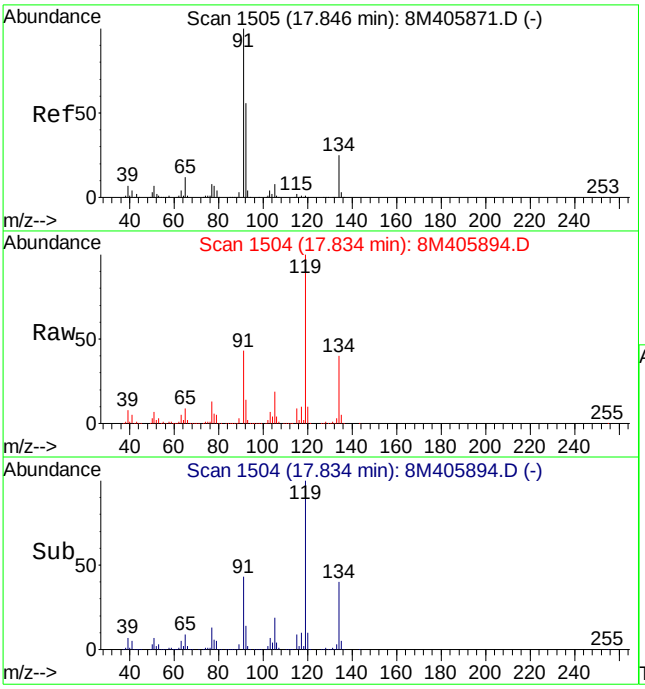


#92
p-Isopropyltoluene
Concen: 26.63 ug/L
RT: 17.32 min Scan# 1454
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion:119 Resp: 730432

Ion	Ratio	Lower	Upper
119	100		
134	26.2	15.8	36.8

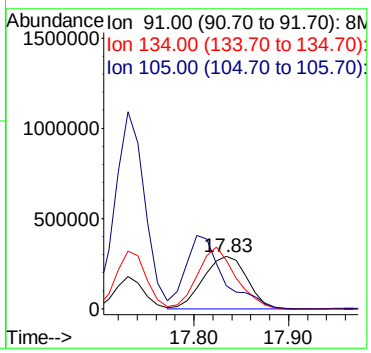


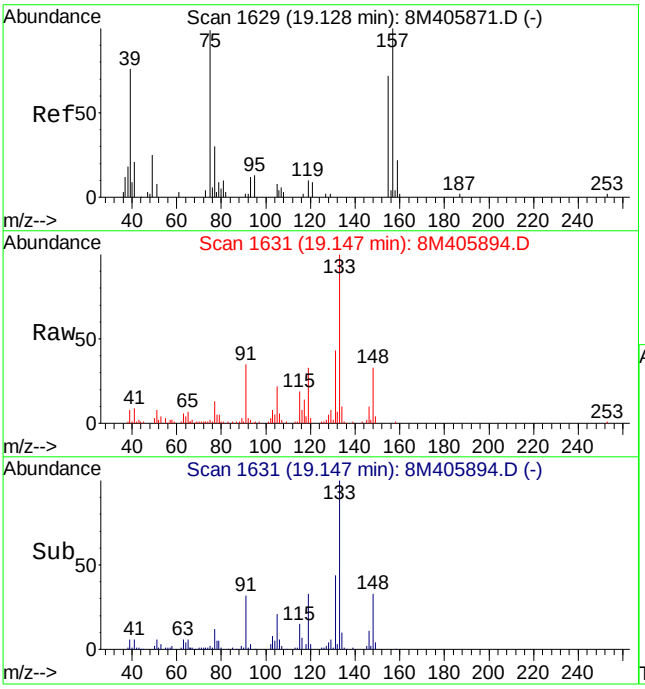


#95
n-Butylbenzene
Concen: 34.53 ug/L
RT: 17.83 min Scan# 1504
Delta R.T. -0.01 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 91 Resp: 928589

Ion	Ratio	Lower	Upper
91	100		
134	103.1	14.4	33.6#
105	120.8	5.0	11.8#

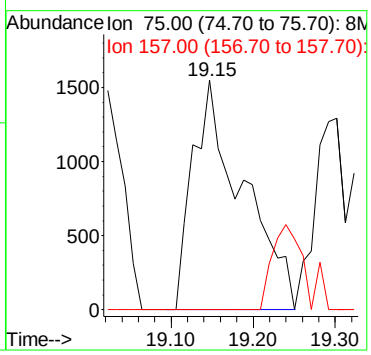


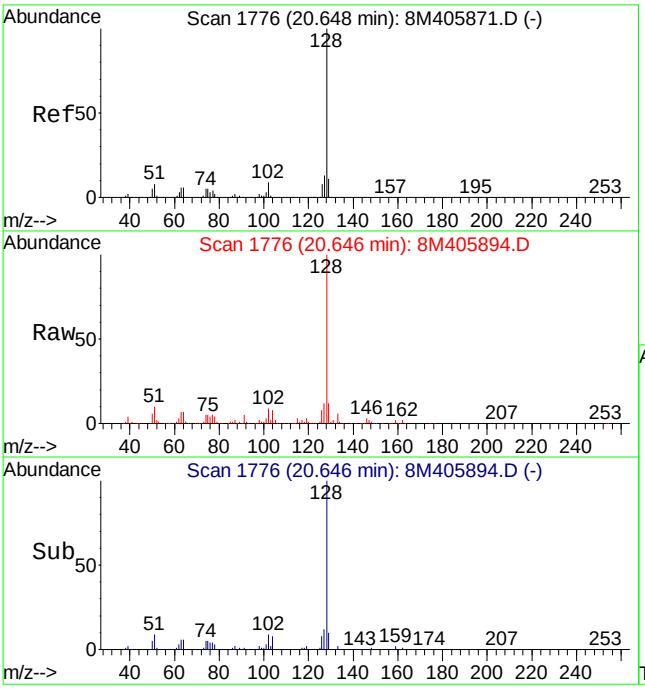


#97
1,2-Dibromo-3-Chloropropane
Concen: 7.88 ug/L
RT: 19.15 min Scan# 1631
Delta R.T. 0.02 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion: 75 Resp: 6568

Ion	Ratio	Lower	Upper
75	100		
157	0.0	61.0	142.4#

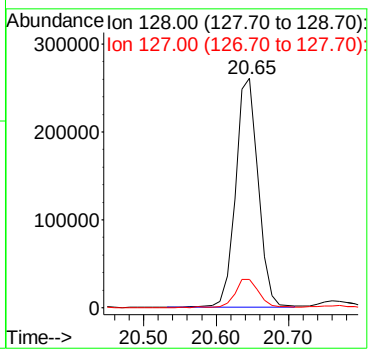




#100
Naphthalene
Concen: 42.03 ug/L
RT: 20.65 min Scan# 1776
Delta R.T. -0.00 min
Lab File: 8M405894.D
Acq: 3 Jul 2015 22:20

Tgt Ion:128 Resp: 571583

Ion	Ratio	Lower	Upper
128	100		
127	13.3	8.0	18.6



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070615\8M405917.D Vial: 13
Acq On : 6 Jul 2015 19:22 Operator: ADC/ JDS
Sample : L15061450-11 B D1 2.5X 826-SPE Inst : HPMS8
Misc : 1,2.5 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 07 10:09:12 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

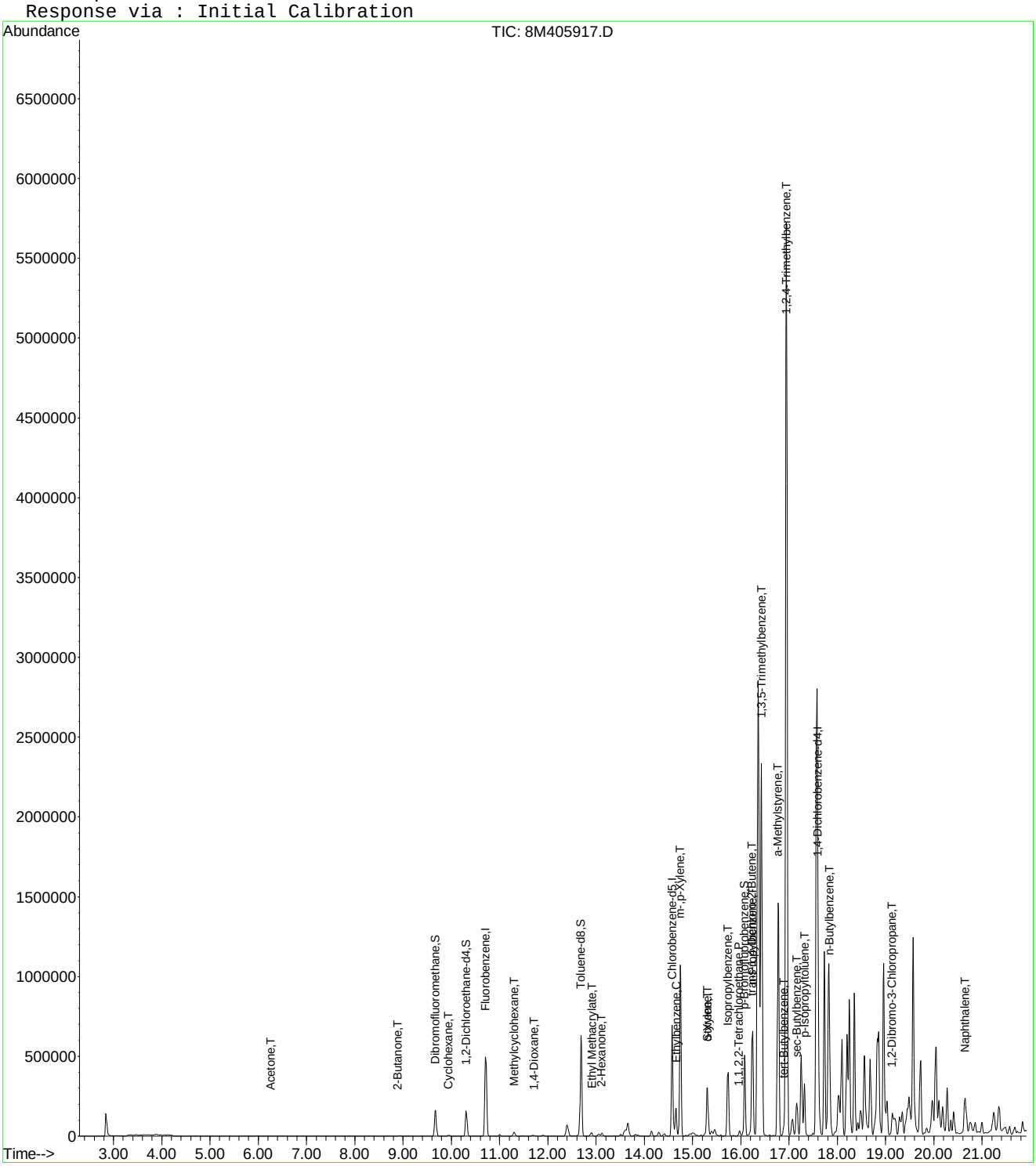
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	589246	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	430549	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	255068	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	140438	25.6897	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 102.76%			
43) 1,2-Dichloroethane-d4	10.31	65	135105	25.2671	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 101.08%			
58) Toluene-d8	12.69	98	546419	25.6561	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.64%			
80) p-Bromofluorobenzene	16.08	95	214247	23.5106	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 94.04%			
Target Compounds						Qvalue
13) Acetone	6.26	43	2909	4.0184	ug/L #	48
29) 2-Butanone	8.89	43	3917	3.2035	ug/L #	57
39) Cyclohexane	9.95	56	6481	1.1106	ug/L #	86
48) Methylcyclohexane	11.30	83	16469	1.8953	ug/L	98
51) 1,4-Dioxane	11.71	88	210	32.8363	ug/L #	10
60) Ethyl Methacrylate	12.92	69	2970	0.6792	ug/L #	1
64) 2-Hexanone	13.12	58	8691	8.2089	ug/L #	94
72) Ethylbenzene	14.66	106	41250	4.6123	ug/L	99
73) m-,p-Xylene	14.74	106	389395	36.9690	ug/L	96
74) o-Xylene	15.31	106	107362	10.5083	ug/L	99
75) Styrene	15.31	104	5554	0.3382	ug/L #	1
77) Isopropylbenzene	15.74	105	362207	14.1323	ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.96	83	2278	0.5292	ug/L #	94
82) trans-1,4-Dichloro-2-Buten	16.23	53	6376	4.5753	ug/L #	1
83) n-Propylbenzene	16.24	91	702017	20.2501	ug/L	98
85) 1,3,5-Trimethylbenzene	16.43	105	1669953	69.0696	ug/L	99
88) a-Methylstyrene	16.77	118	4395	0.3426	ug/L #	1
89) tert-Butylbenzene	16.89	134	5339	1.0836	ug/L #	1
90) 1,2,4-Trimethylbenzene	16.94	105	3914378	158.8287	ug/L	92
91) sec-Butylbenzene	17.16	105	202301	7.0216	ug/L	97
92) p-Isopropyltoluene	17.32	119	249407	9.9614	ug/L	99
95) n-Butylbenzene	17.83	91	315098	12.8338	ug/L #	1
97) 1,2-Dibromo-3-Chloropropan	19.14	75	1341	1.7619	ug/L #	1
100) Naphthalene	20.65	128	184746	14.8817	ug/L	99

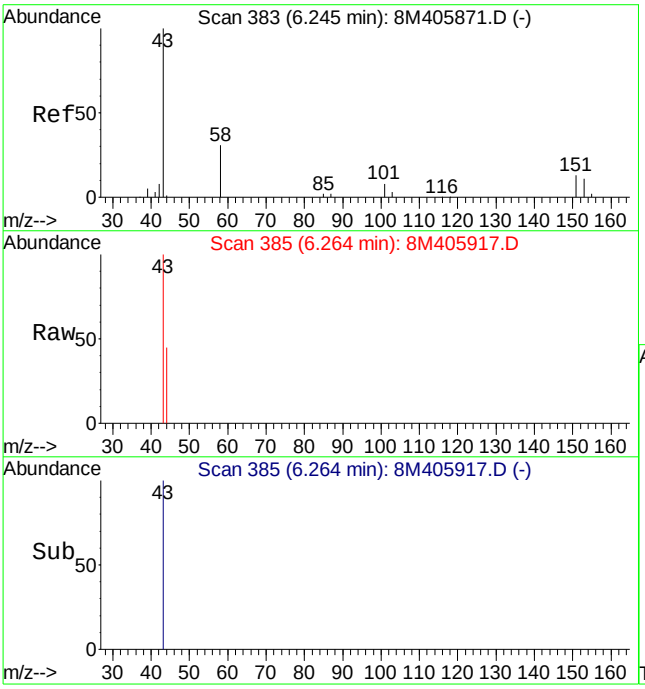
(#) = qualifier out of range (m) = manual integration
8M405917.D 8260WT.M Tue Jul 07 10:09:13 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070615\8M405917.D Vial: 13
Acq On : 6 Jul 2015 19:22 Operator: ADC/ JDS
Sample : L15061450-11 B D1 2.5X 826-SPE Inst : HPMS8
Misc : 1,2.5 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 7 10:09 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

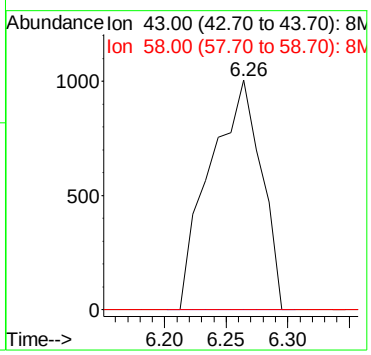


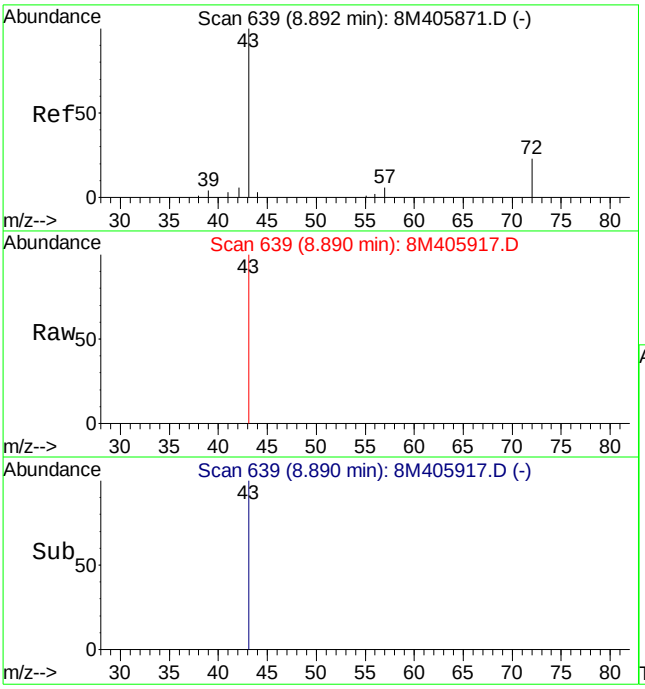


#13
Acetone
Concen: 4.02 ug/L
RT: 6.26 min Scan# 385
Delta R.T. 0.02 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion: 43 Resp: 2909

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#

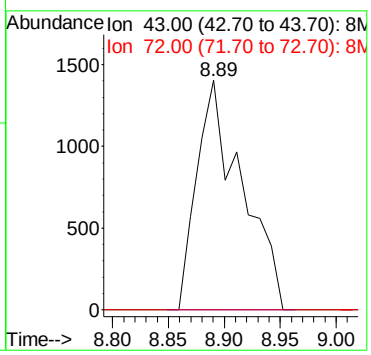


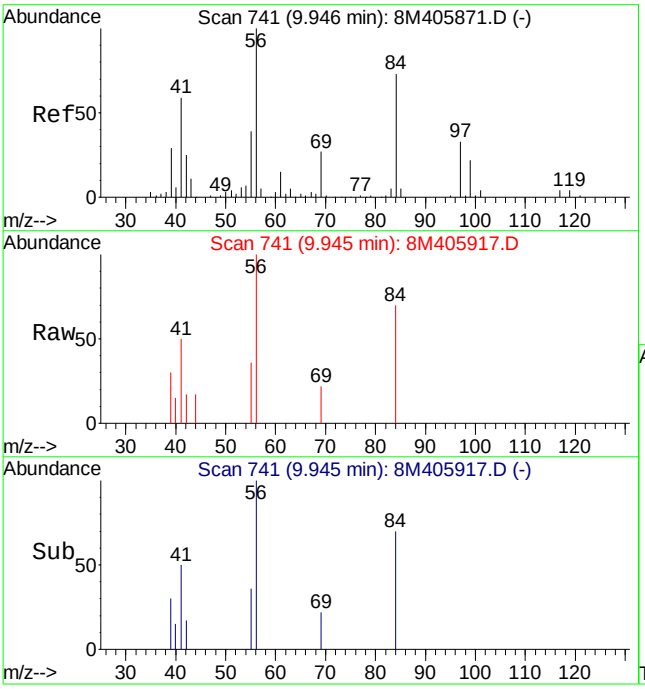


#29
2-Butanone
Concen: 3.20 ug/L
RT: 8.89 min Scan# 639
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion: 43 Resp: 3917

Ion	Ratio	Lower	Upper
43	100		
72	0.0	11.9	27.9#

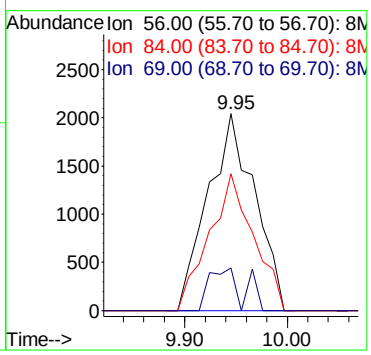


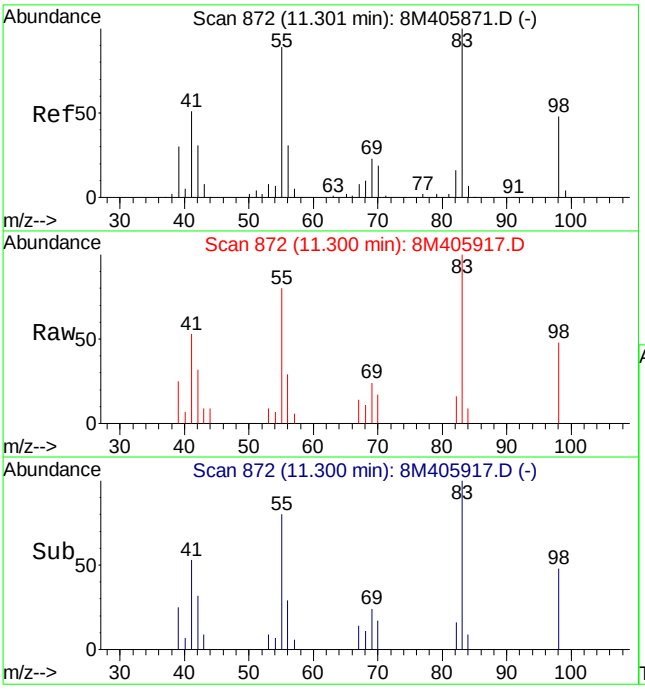


#39
Cyclohexane
Concen: 1.11 ug/L
RT: 9.95 min Scan# 741
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion: 56 Resp: 6481

Ion	Ratio	Lower	Upper
56	100		
84	65.5	45.4	105.8
69	15.8	15.8	37.0#

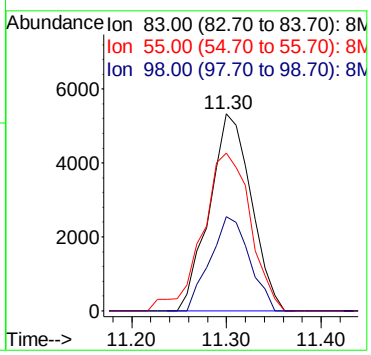


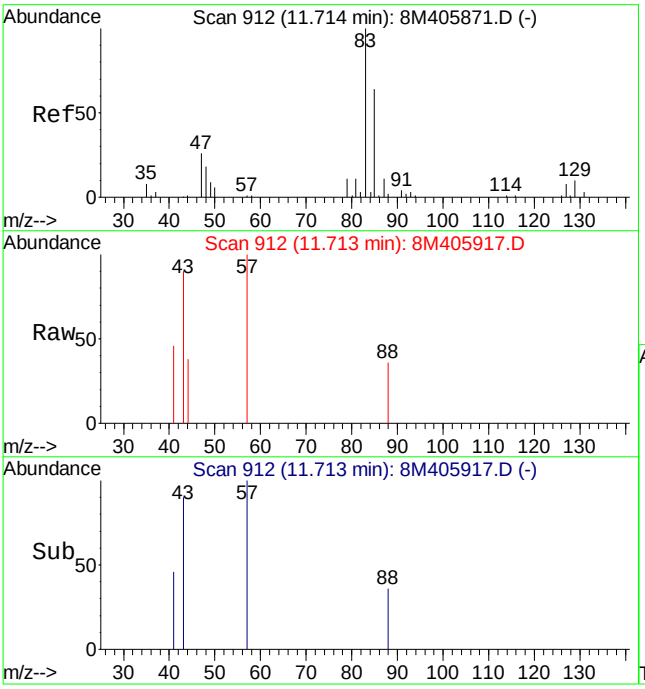


#48
Methylcyclohexane
Concen: 1.90 ug/L
RT: 11.30 min Scan# 872
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion: 83 Resp: 16469

Ion	Ratio	Lower	Upper
83	100		
55	91.1	54.8	128.0
98	44.6	29.0	67.8

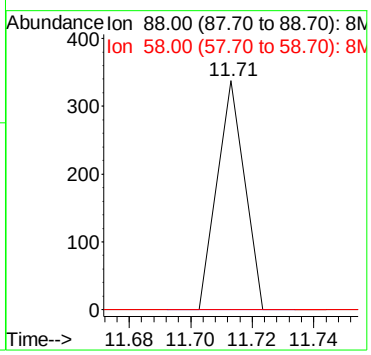


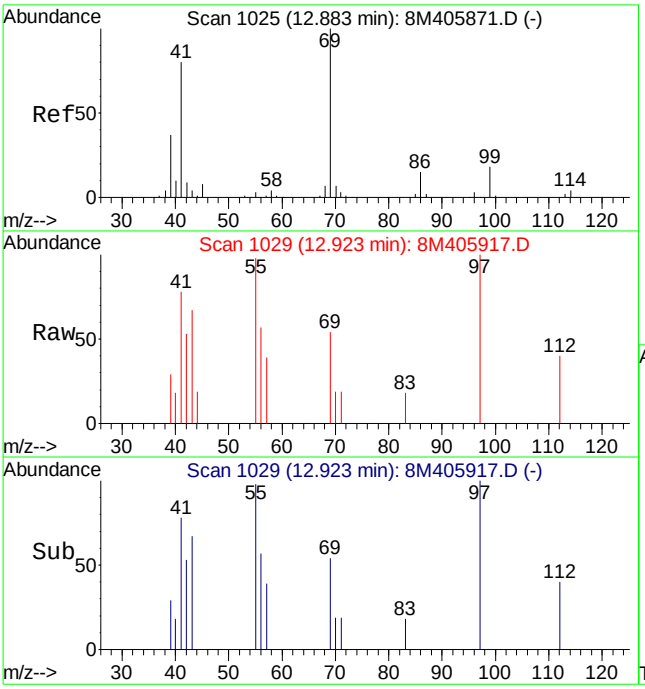


#51
1,4-Dioxane
Concen: 32.84 ug/L
RT: 11.71 min Scan# 912
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion: 88 Resp: 210

Ion	Ratio	Lower	Upper
88	100		
58	0.0	46.9	109.3#

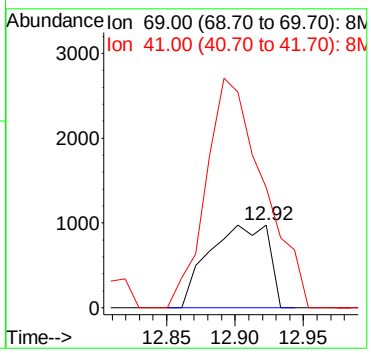


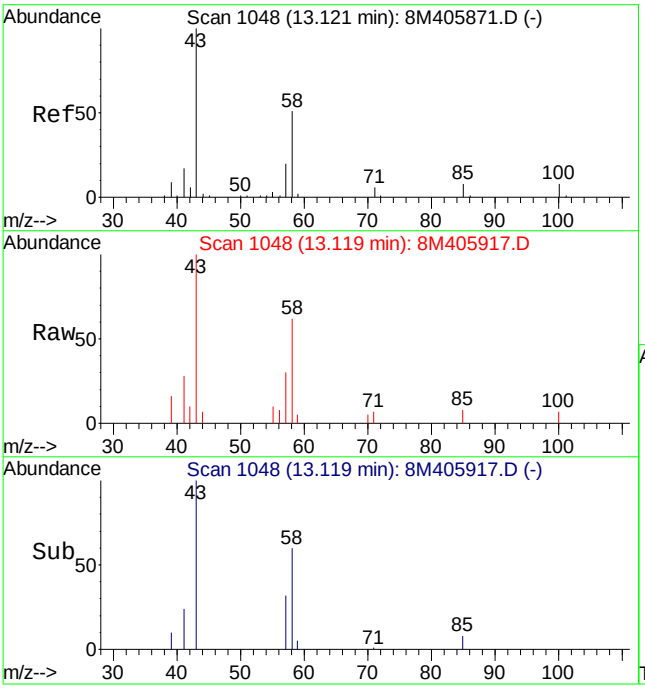


#60
Ethyl Methacrylate
Concen: 0.68 ug/L
RT: 12.92 min Scan# 1029
Delta R.T. 0.04 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion: 69 Resp: 2970

Ion	Ratio	Lower	Upper
69	100		
41	266.6	48.5	113.3#

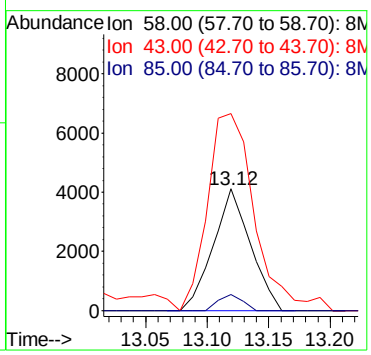


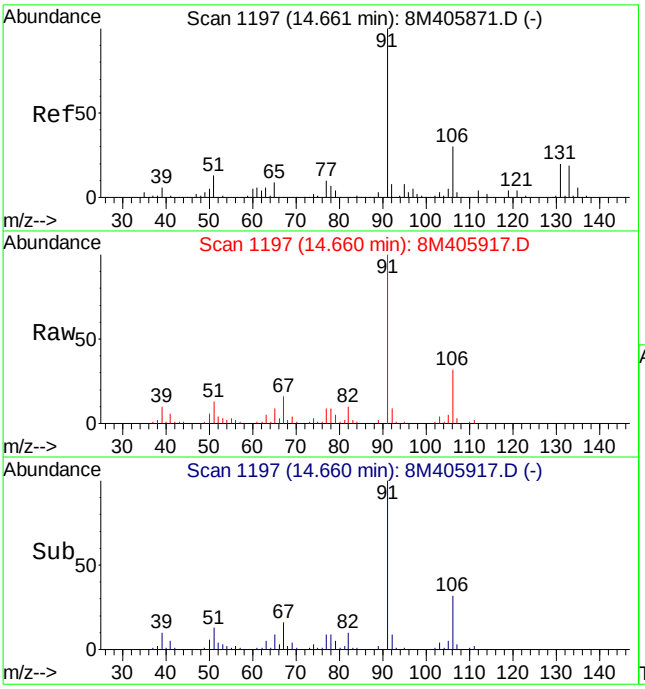


#64
2-Hexanone
Concen: 8.21 ug/L
RT: 13.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion: 58 Resp: 8691

Ion	Ratio	Lower	Upper
58	100		
43	203.9	116.8	272.4
85	8.5	0.0	0.0#

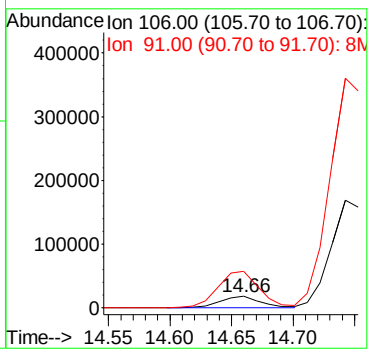


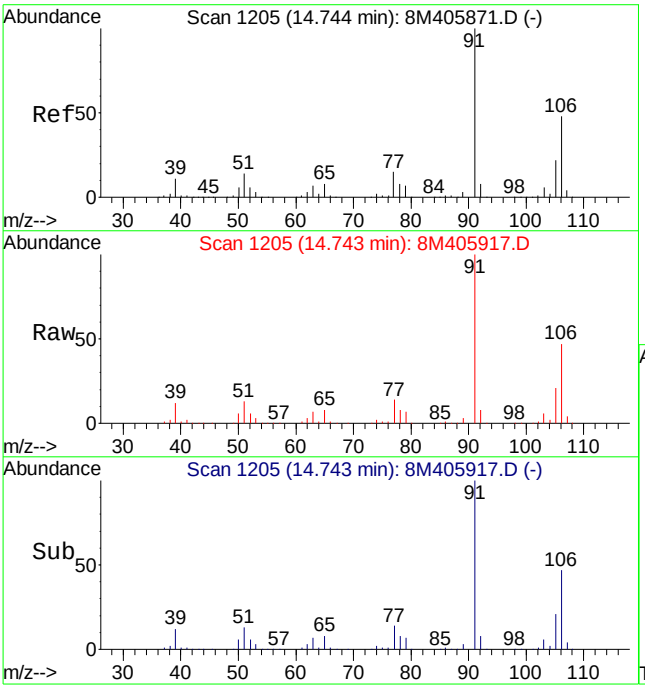


#72
Ethylbenzene
Concen: 4.61 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion:106 Resp: 41250

Ion	Ratio	Lower	Upper
106	100		
91	330.1	199.7	466.1

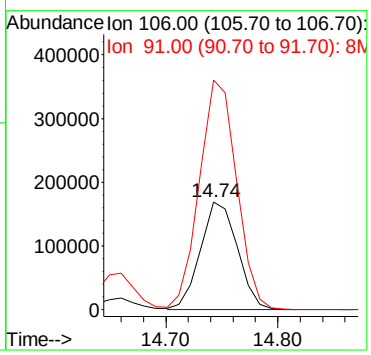


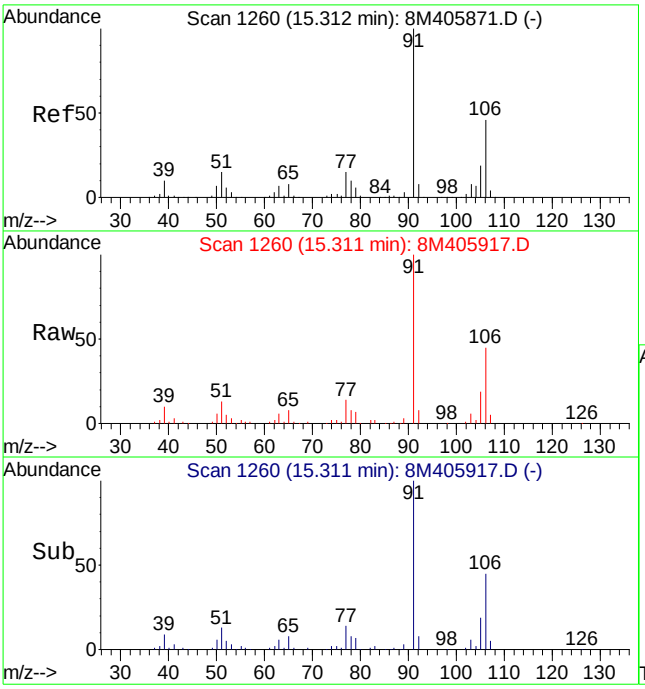


#73
m-,p-Xylene
Concen: 36.97 ug/L
RT: 14.74 min Scan# 1205
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion:106 Resp: 389395

Ion	Ratio	Lower	Upper
106	100		
91	214.7	125.1	291.9

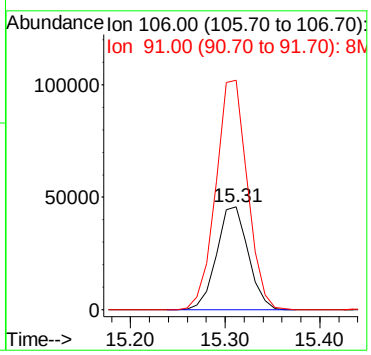


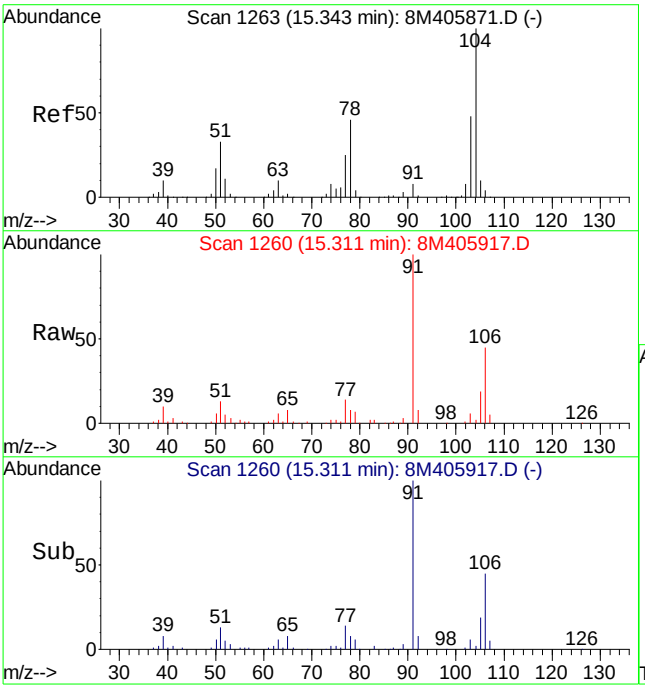


#74
o-Xylene
Concen: 10.51 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion:106 Resp: 107362

Ion	Ratio	Lower	Upper
106	100		
91	222.6	134.3	313.5

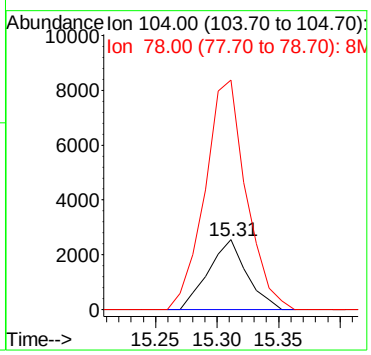


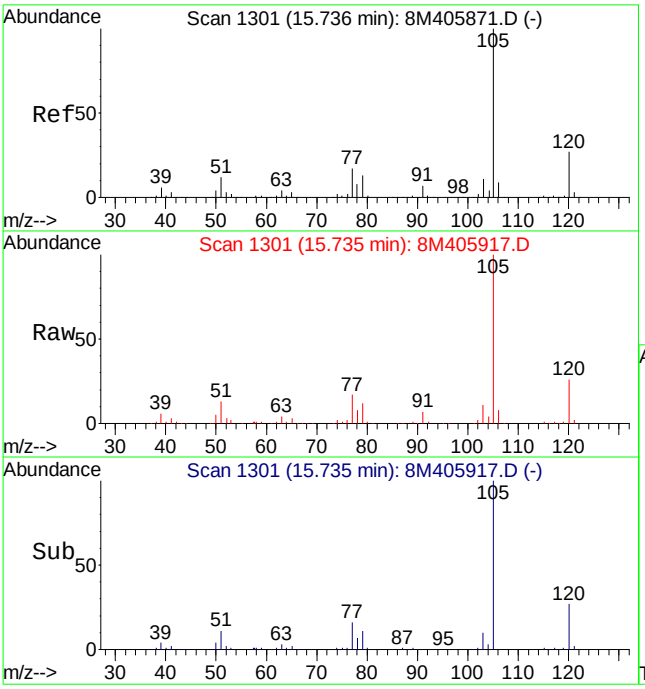


#75
Styrene
Concen: 0.34 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. -0.03 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion:104 Resp: 5554

Ion	Ratio	Lower	Upper
104	100		
78	351.2	32.9	76.7#

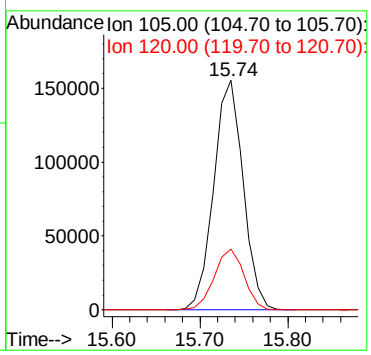


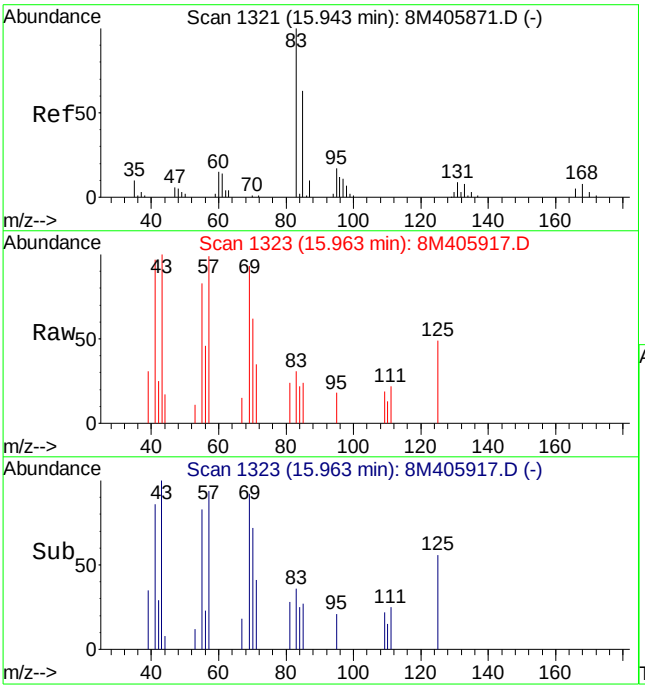


#77
Isopropylbenzene
Concen: 14.13 ug/L
RT: 15.74 min Scan# 1301
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion:105 Resp: 362207

Ion	Ratio	Lower	Upper
105	100		
120	26.7	16.0	37.2

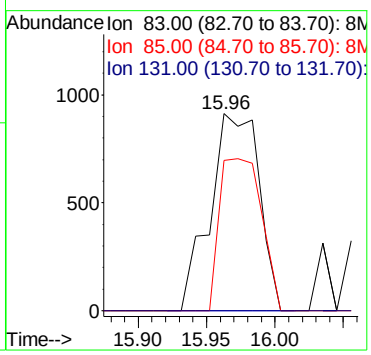


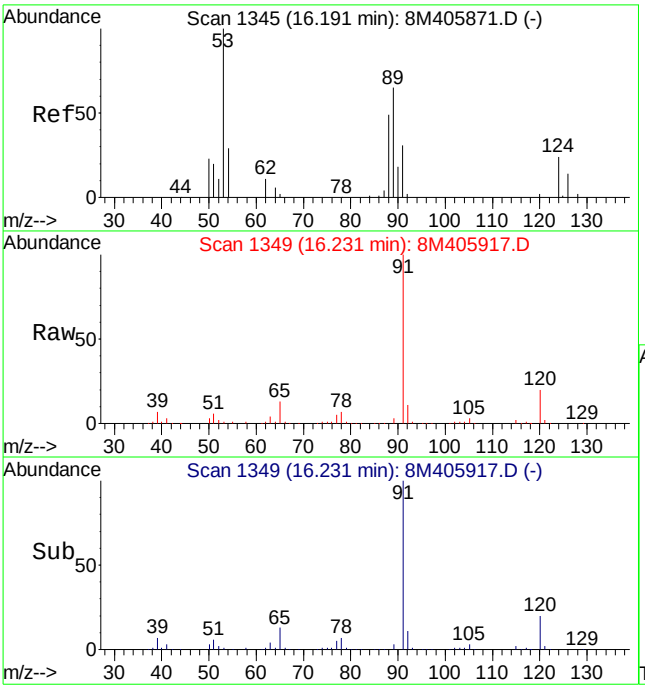


#79
1,1,2,2-Tetrachloroethane
Concen: 0.53 ug/L
RT: 15.96 min Scan# 1323
Delta R.T. 0.02 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion: 83 Resp: 2278

Ion	Ratio	Lower	Upper
83	100		
85	66.0	38.3	89.3
131	0.0	5.8	13.4#

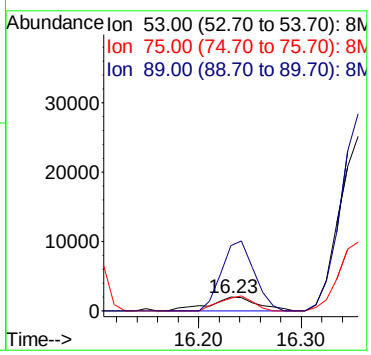


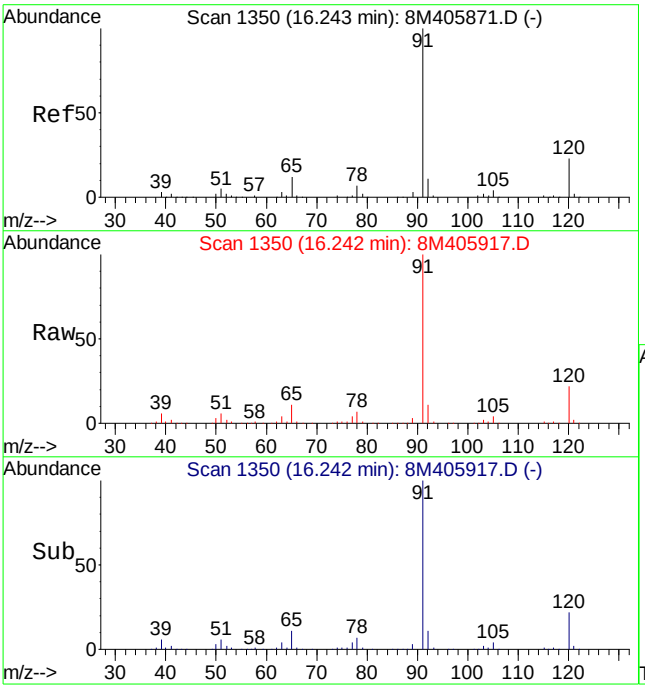


#82
trans-1,4-Dichloro-2-Butene
Concen: 4.58 ug/L
RT: 16.23 min Scan# 1349
Delta R.T. 0.04 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion: 53 Resp: 6376

Ion	Ratio	Lower	Upper
53	100		
75	73.5	58.5	136.5
89	348.7	33.5	78.1#

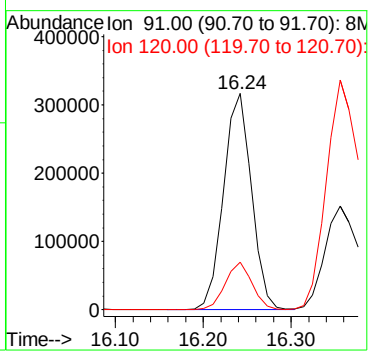


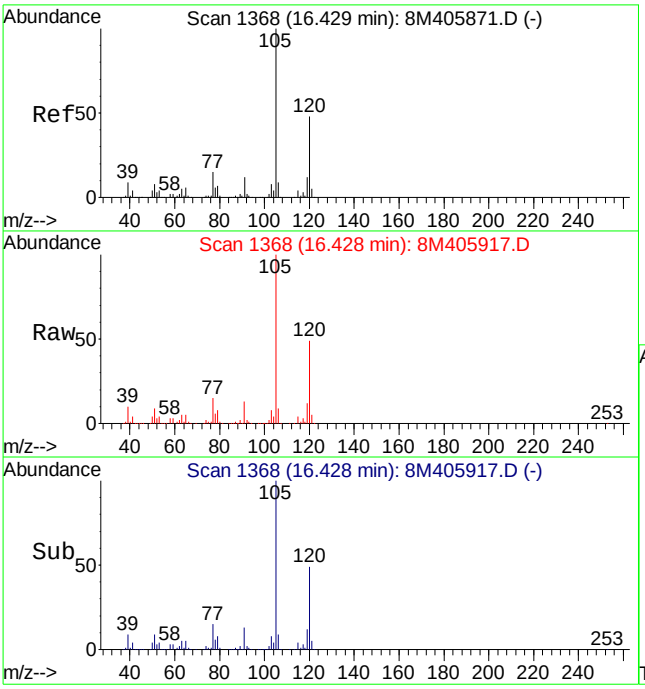


#83
n-Propylbenzene
Concen: 20.25 ug/L
RT: 16.24 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion: 91 Resp: 702017

Ion	Ratio	Lower	Upper
91	100		
120	21.0	13.1	30.5

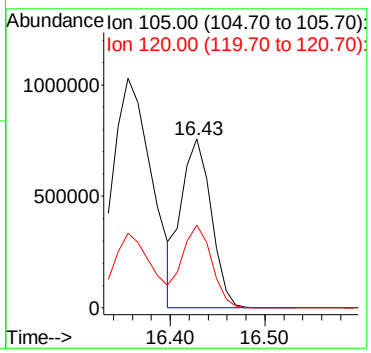


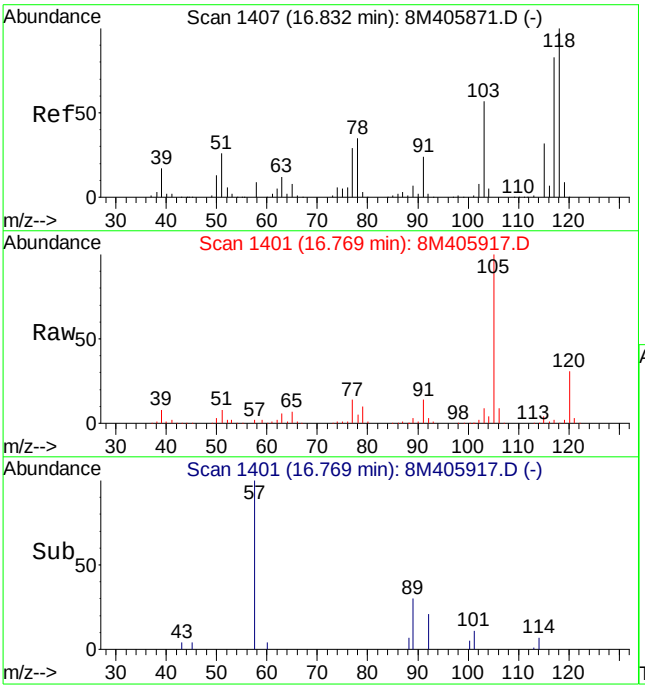


#85
1,3,5-Trimethylbenzene
Concen: 69.07 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion:105 Resp: 1669953

Ion	Ratio	Lower	Upper
105	100		
120	48.4	28.8	67.2

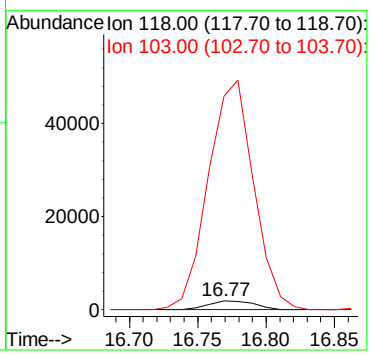


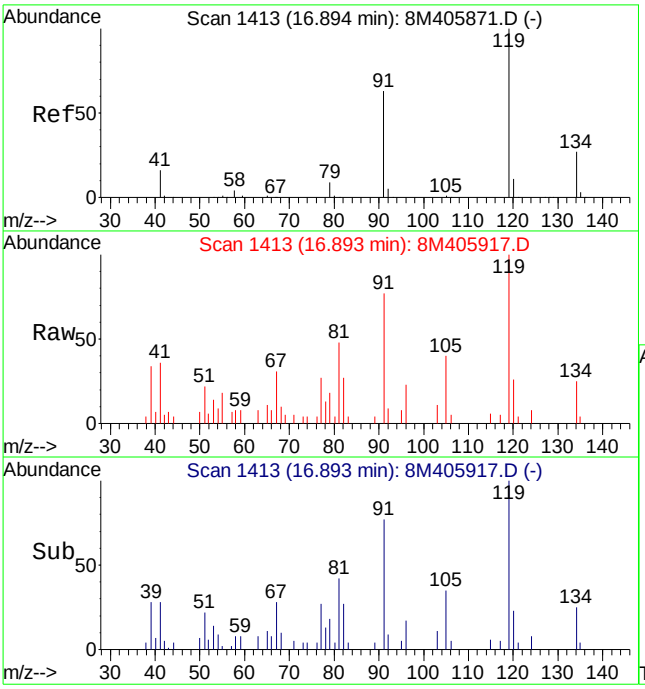


#88
a-Methylstyrene
Concen: 0.34 ug/L
RT: 16.77 min Scan# 1401
Delta R.T. -0.06 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion:118 Resp: 4395

Ion	Ratio	Lower	Upper
118	100		
103	2590.9	35.9	83.7#

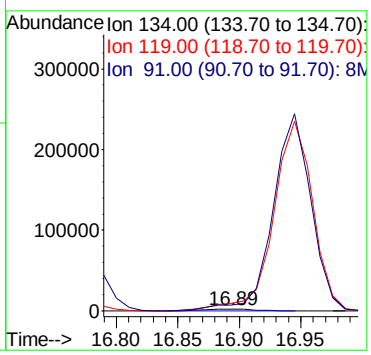


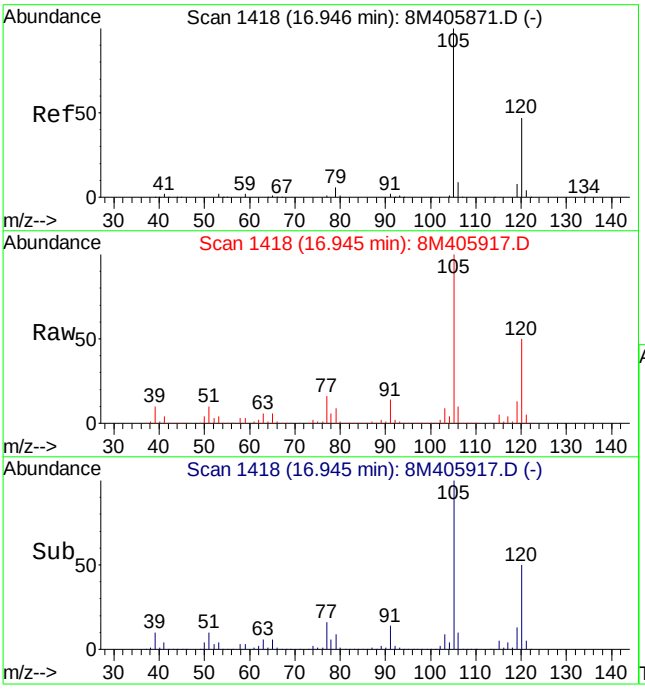


#89
tert-Butylbenzene
Concen: 1.08 ug/L
RT: 16.89 min Scan# 1413
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion:134 Resp: 5339

Ion	Ratio	Lower	Upper
134	100		
119	9769.7	293.9	685.7#
91	9834.7	214.9	501.3#

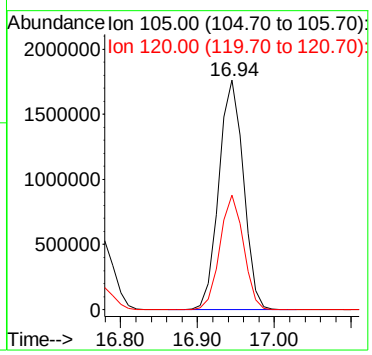


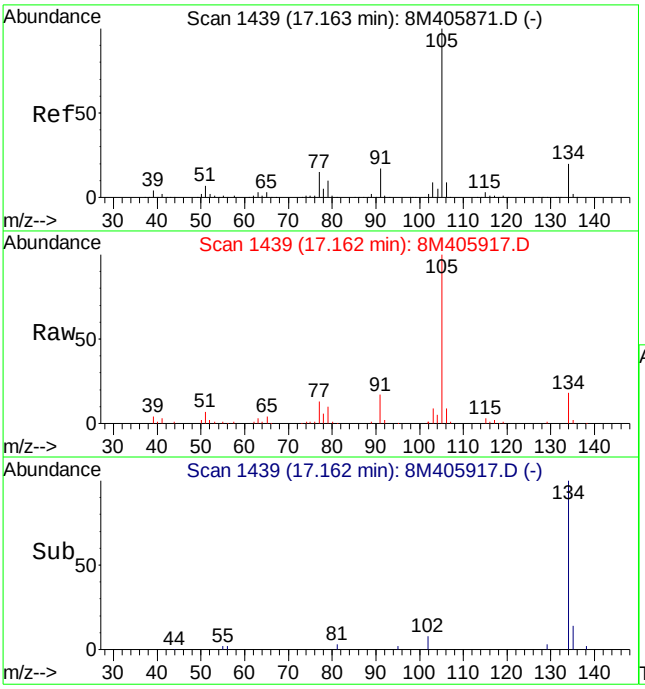


#90
1,2,4-Trimethylbenzene
Concen: 158.83 ug/L
RT: 16.94 min Scan# 1418
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion:105 Resp: 3914378

Ion	Ratio	Lower	Upper
105	100		
120	47.8	32.3	75.5

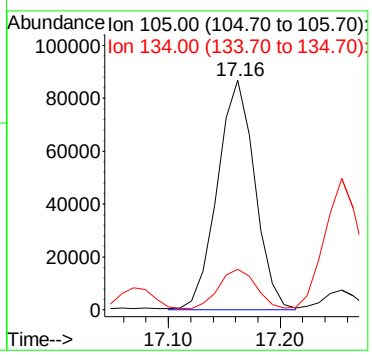


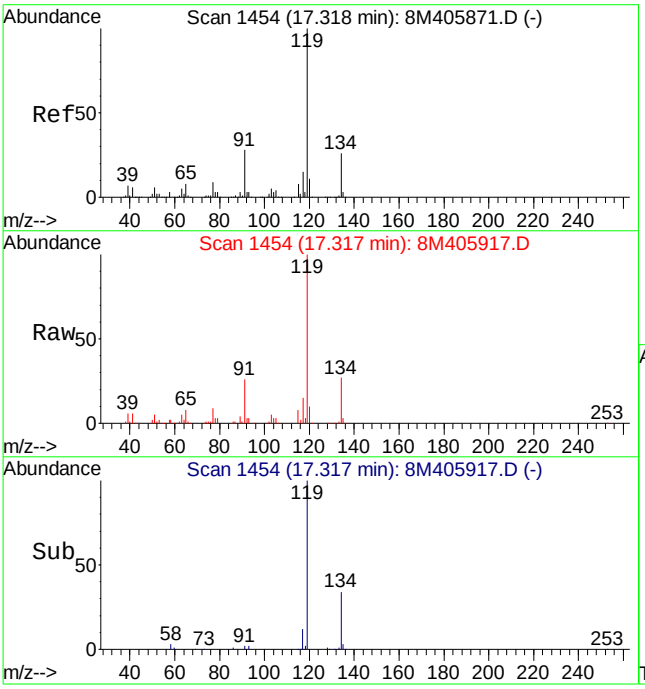


#91
sec-Butylbenzene
Concen: 7.02 ug/L
RT: 17.16 min Scan# 1439
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion:105 Resp: 202301

Ion	Ratio	Lower	Upper
105	100		
134	18.1	11.8	27.4

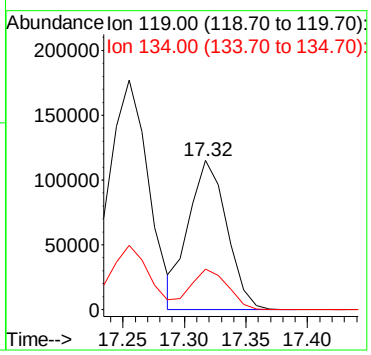


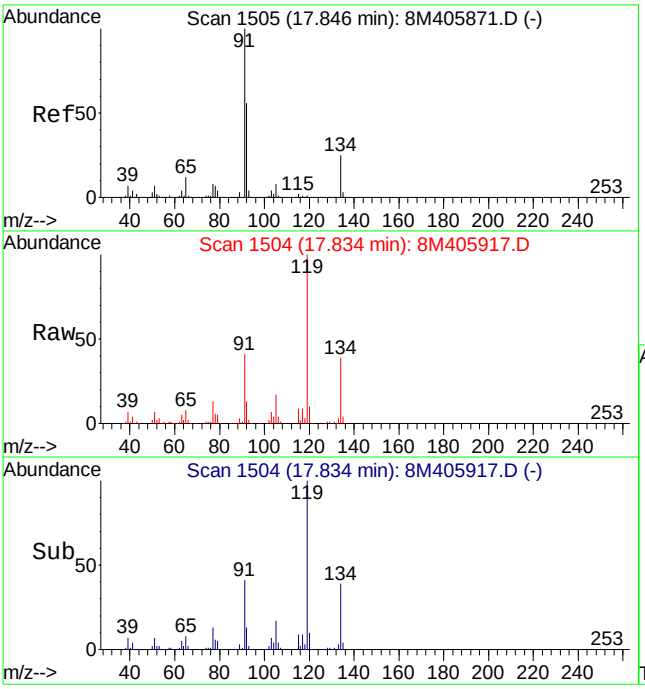


#92
p-Isopropyltoluene
Concen: 9.96 ug/L
RT: 17.32 min Scan# 1454
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion:119 Resp: 249407

Ion	Ratio	Lower	Upper
119	100		
134	26.7	15.8	36.8

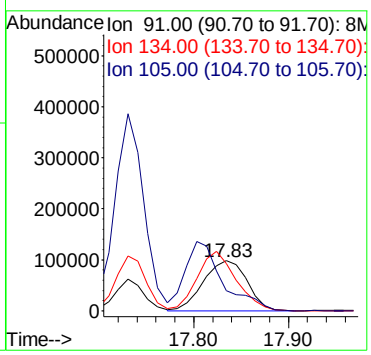


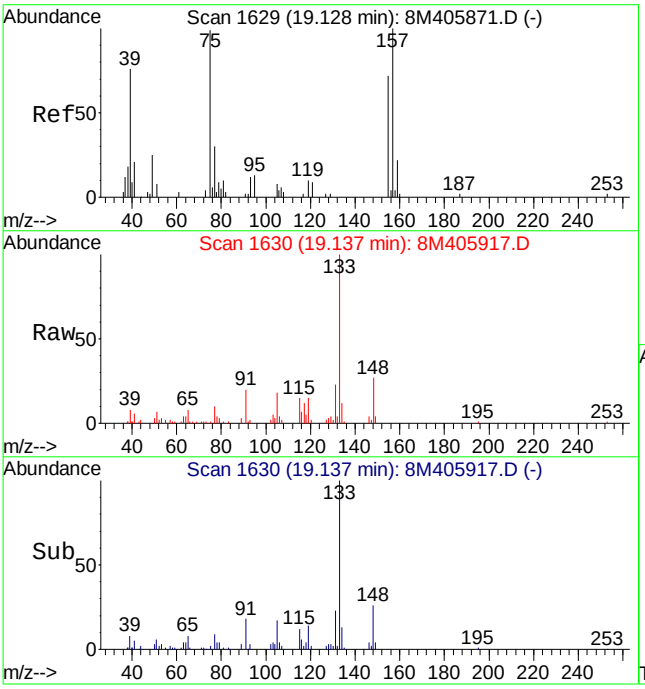


#95
n-Butylbenzene
Concen: 12.83 ug/L
RT: 17.83 min Scan# 1504
Delta R.T. -0.01 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion: 91 Resp: 315098

Ion	Ratio	Lower	Upper
91	100		
134	105.7	14.4	33.6#
105	118.7	5.0	11.8#

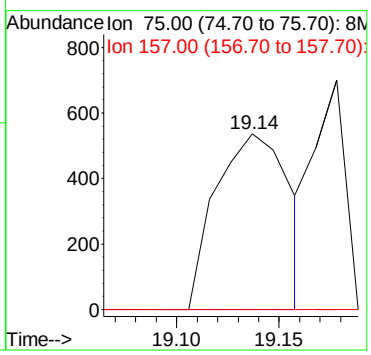


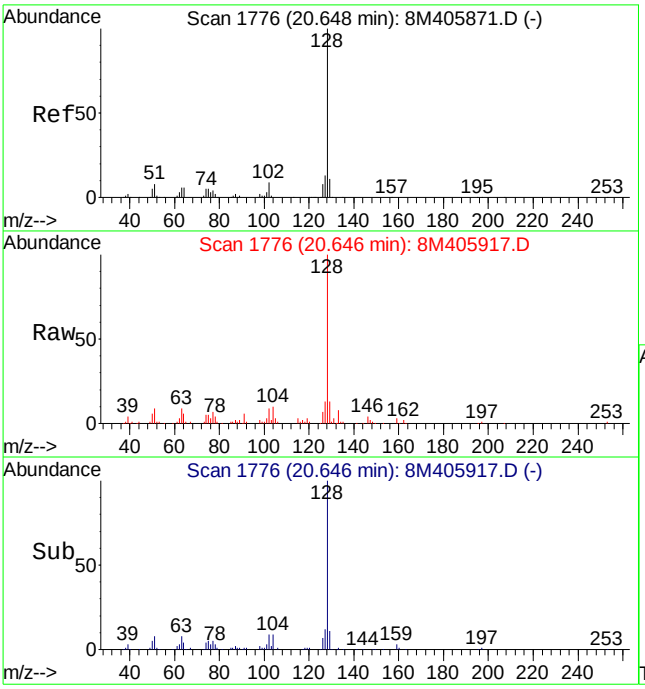


#97
1,2-Dibromo-3-Chloropropane
Concen: 1.76 ug/L
RT: 19.14 min Scan# 1630
Delta R.T. 0.01 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion: 75 Resp: 1341

Ion	Ratio	Lower	Upper
75	100		
157	0.0	61.0	142.4#

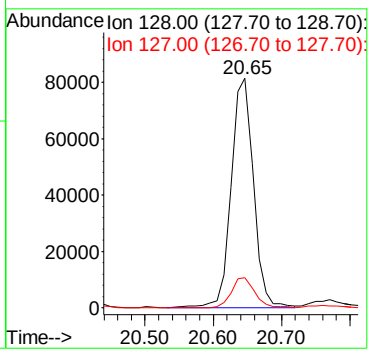




#100
Naphthalene
Concen: 14.88 ug/L
RT: 20.65 min Scan# 1776
Delta R.T. -0.00 min
Lab File: 8M405917.D
Acq: 6 Jul 2015 19:22

Tgt Ion:128 Resp: 184746

Ion	Ratio	Lower	Upper
128	100		
127	13.8	8.0	18.6



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405895.D Vial: 19
Acq On : 3 Jul 2015 22:49 Operator: ADC/ JDS
Sample : L15061450-12 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:39 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

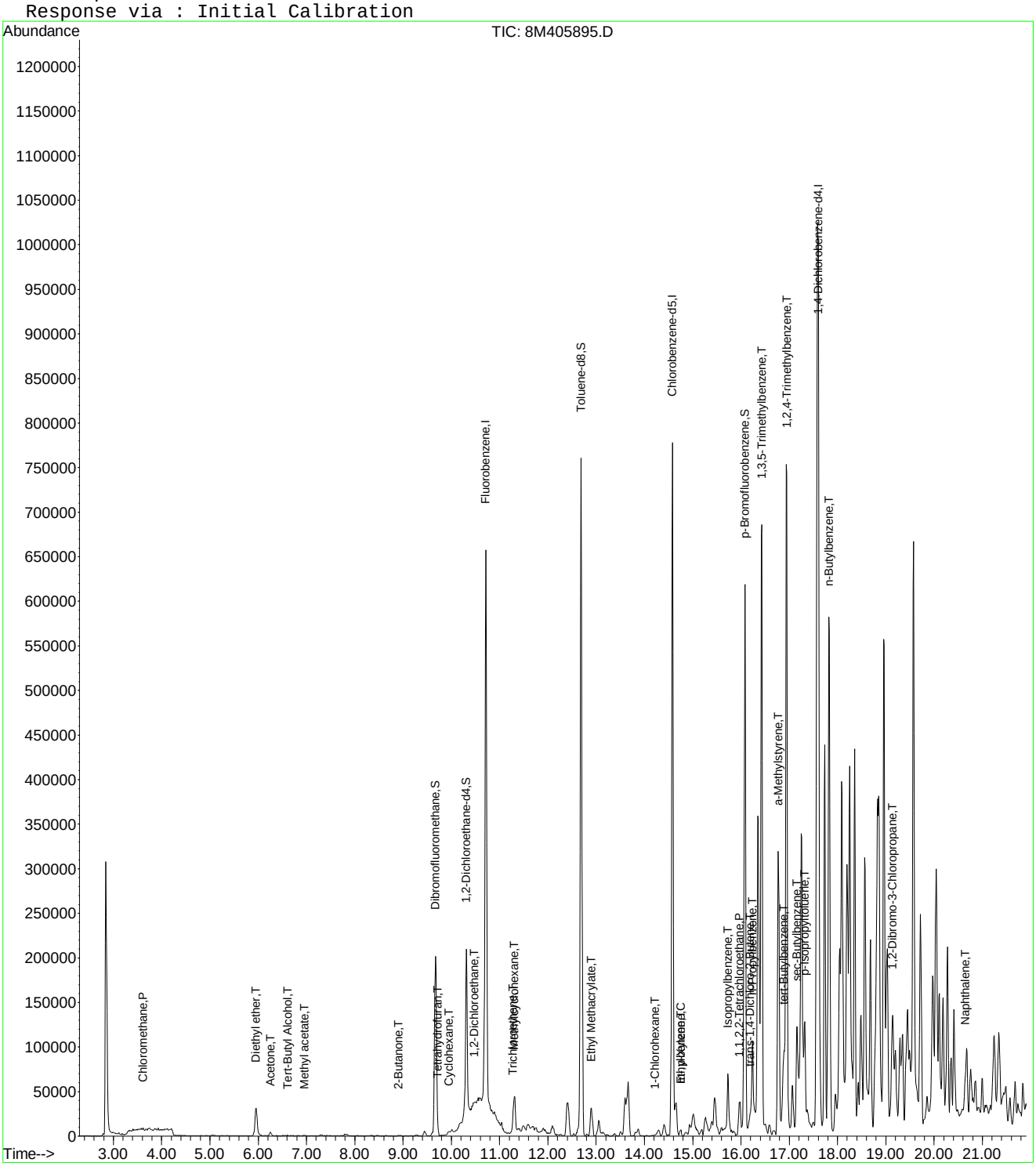
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.71	96	714022	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	501505	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	281910	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.67	111	165288	24.9517 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.80%		
43) 1,2-Dichloroethane-d4	10.31	65	163306	25.2041 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 100.80%		
58) Toluene-d8	12.69	98	646259	26.0507 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.20%		
80) p-Bromofluorobenzene	16.08	95	251016	24.9227 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.68%		
Target Compounds					Qvalue
3) Chloromethane	3.62	50	2391	0.1705 ug/L	77
9) Diethyl ether	5.96	59	2193	0.5159 ug/L #	1
13) Acetone	6.26	43	8845	10.0831 ug/L	96
15) Tert-Butyl Alcohol	6.61	59	239	1.1105 ug/L #	58
18) Methyl acetate	6.96	43	1014	0.2911 ug/L #	64
29) 2-Butanone	8.90	43	263	0.1775 ug/L #	57
36) Tetrahydrofuran	9.72	42	294	0.2970 ug/L #	1
39) Cyclohexane	9.95	56	3584	0.7968 ug/L #	62
45) 1,2-Dichloroethane	10.48	62	3577	0.4419 ug/L #	38
47) Trichloroethene	11.27	130	878	0.1359 ug/L #	1
48) Methylcyclohexane	11.30	83	25457	2.4177 ug/L	94
60) Ethyl Methacrylate	12.90	69	5820	1.1426 ug/L #	1
69) 1-Chlorohexane	14.22	91	206	0.1817 ug/L #	1
72) Ethylbenzene	14.76	106	2578	0.2475 ug/L	55
73) m-,p-Xylene	14.76	106	2578	0.2101 ug/L	81
77) Isopropylbenzene	15.73	105	51032	1.7094 ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.97	83	3368	0.7080 ug/L #	60
82) trans-1,4-Dichloro-2-Buten	16.19	53	1745	1.5354 ug/L #	1
83) n-Propylbenzene	16.23	91	106392	2.7767 ug/L	95
85) 1,3,5-Trimethylbenzene	16.43	105	526830	19.7151 ug/L	100
88) a-Methylstyrene	16.77	118	4209	0.2969 ug/L #	1
89) tert-Butylbenzene	16.89	134	4402	0.8083 ug/L #	1
90) 1,2,4-Trimethylbenzene	16.95	105	554775	20.3671 ug/L	88
91) sec-Butylbenzene	17.16	105	110342	3.4652 ug/L	99
92) p-Isopropyltoluene	17.32	119	72601	2.6236 ug/L	97
95) n-Butylbenzene	17.83	91	133771	4.9297 ug/L #	1
97) 1,2-Dibromo-3-Chloropropan	19.14	75	1748	2.0780 ug/L	88
100) Naphthalene	20.65	128	14560	1.0612 ug/L #	86

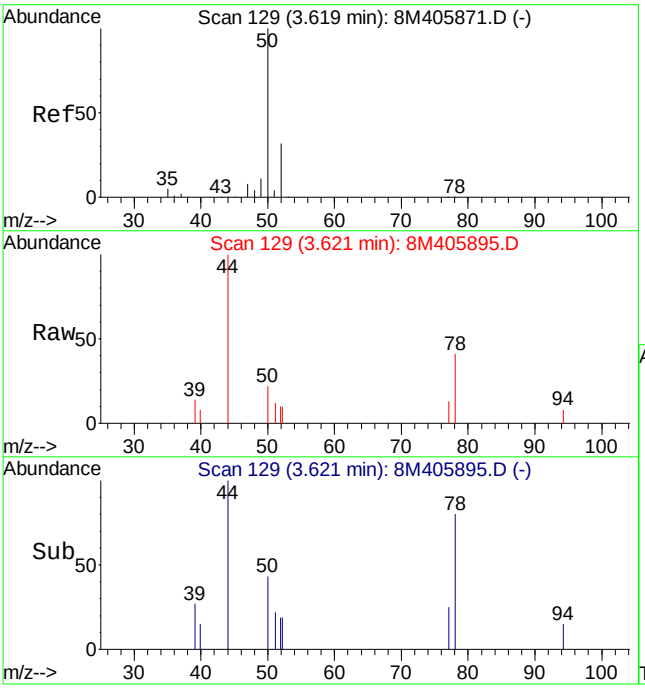
(#) = qualifier out of range (m) = manual integration
8M405895.D 8260WT.M Mon Jul 06 10:26:40 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405895.D Vial: 19
Acq On : 3 Jul 2015 22:49 Operator: ADC/ JDS
Sample : L15061450-12 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

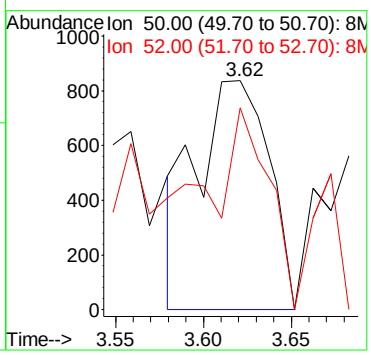


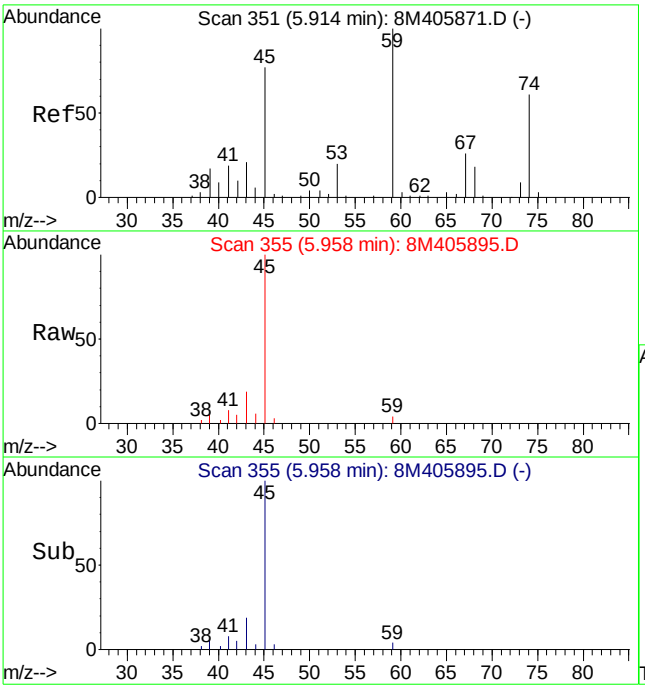


#3
Chloromethane
Concen: 0.17 ug/L
RT: 3.62 min Scan# 129
Delta R.T. 0.00 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 50 Resp: 2391

Ion	Ratio	Lower	Upper
50	100		
52	44.6	19.2	44.8

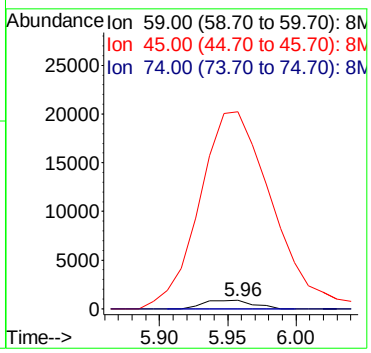


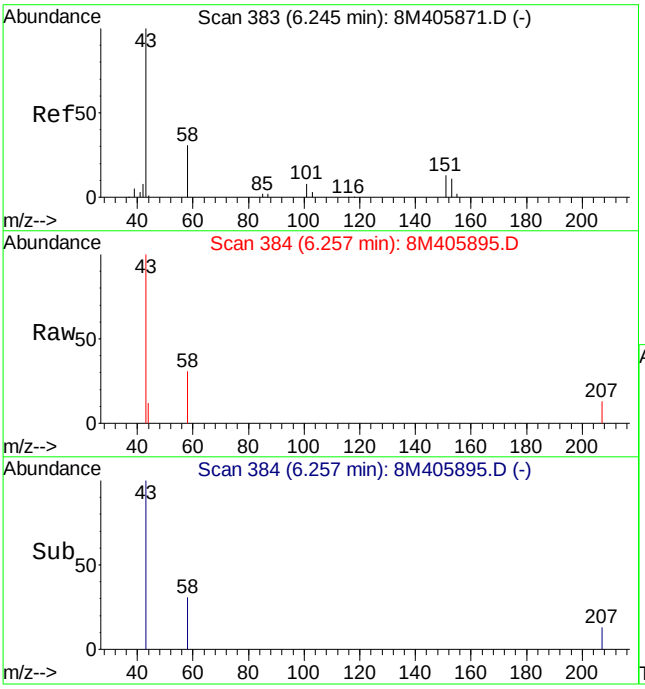


#9
Diethyl ether
Concen: 0.52 ug/L
RT: 5.96 min Scan# 355
Delta R.T. 0.04 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 59 Resp: 2193

Ion	Ratio	Lower	Upper
59	100		
45	3445.6	49.3	115.1#
74	0.0	38.6	90.2#

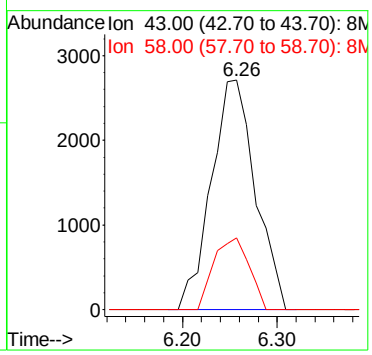


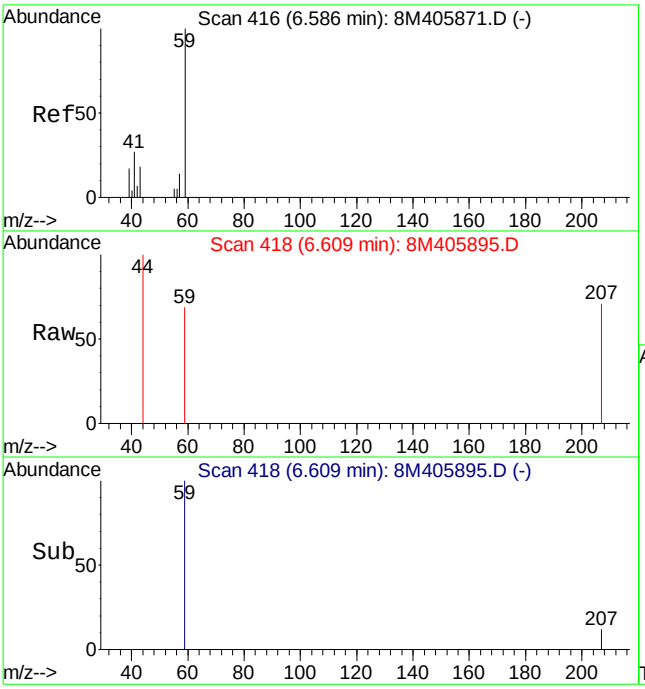


#13
Acetone
Concen: 10.08 ug/L
RT: 6.26 min Scan# 384
Delta R.T. 0.01 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 43 Resp: 8845

Ion	Ratio	Lower	Upper
43	100		
58	25.1	16.4	38.2

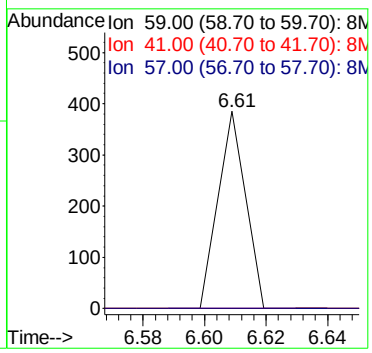


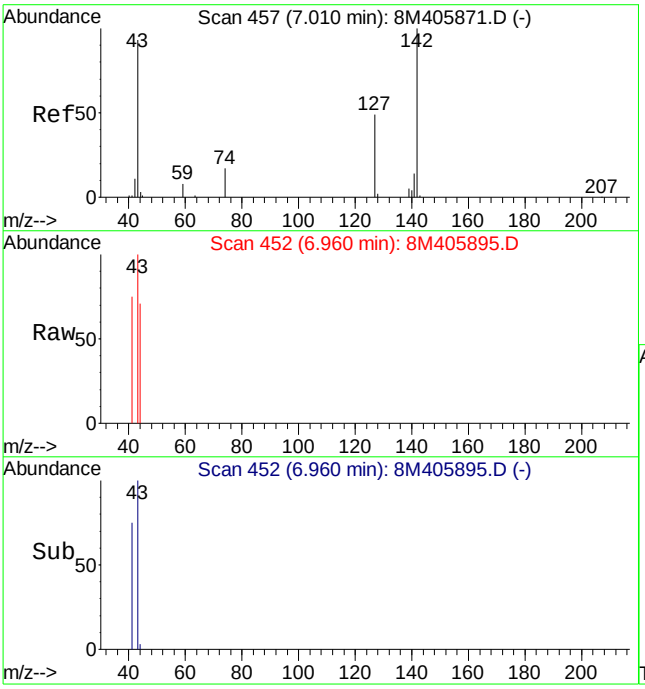


#15
Tert-Butyl Alcohol
Concen: 1.11 ug/L
RT: 6.61 min Scan# 418
Delta R.T. 0.02 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 59 Resp: 239

Ion	Ratio	Lower	Upper
59	100		
41	0.0	14.2	33.0#
57	0.0	6.5	15.3#

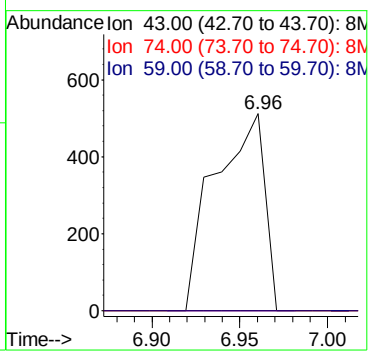


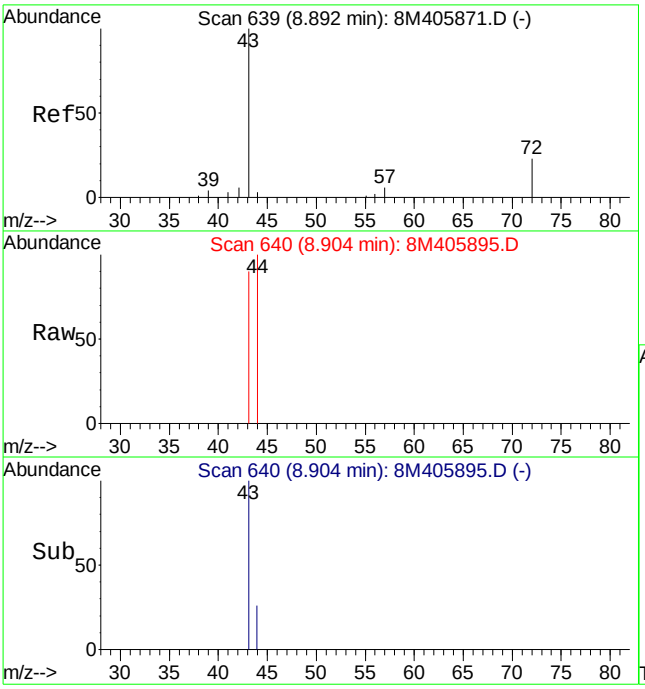


#18
Methyl acetate
Concen: 0.29 ug/L
RT: 6.96 min Scan# 452
Delta R.T. -0.05 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 43 Resp: 1014

Ion	Ratio	Lower	Upper
43	100		
74	0.0	11.2	26.2#
59	0.0	4.7	11.1#

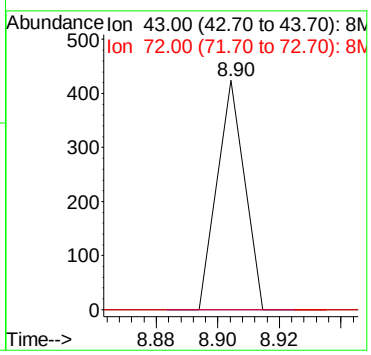


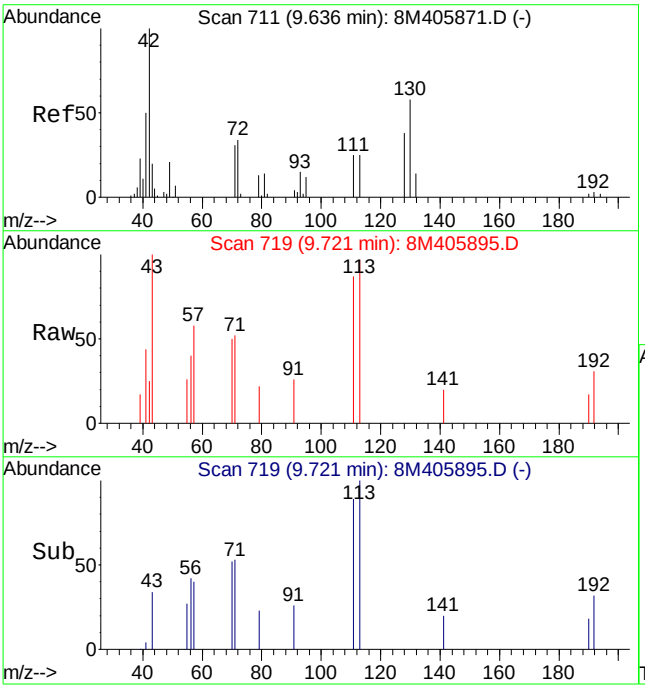


#29
2-Butanone
Concen: 0.18 ug/L
RT: 8.90 min Scan# 640
Delta R.T. 0.01 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 43 Resp: 263

Ion	Ratio	Lower	Upper
43	100		
72	0.0	11.9	27.9#

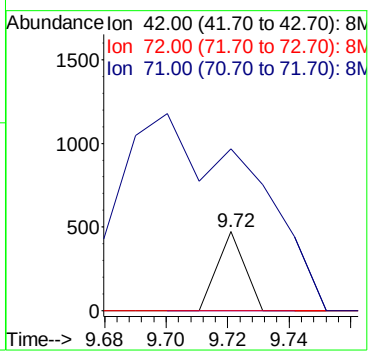


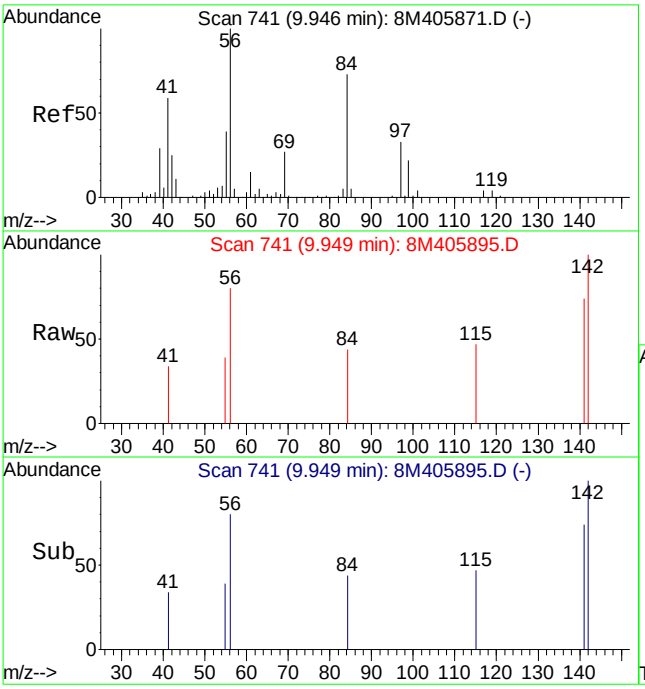


#36
Tetrahydrofuran
Concen: 0.30 ug/L
RT: 9.72 min Scan# 719
Delta R.T. 0.08 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 42 Resp: 294

Ion	Ratio	Lower	Upper
42	100		
72	0.0	22.4	52.4#
71	1319.4	19.5	45.5#

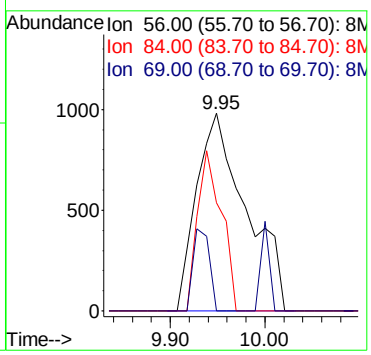


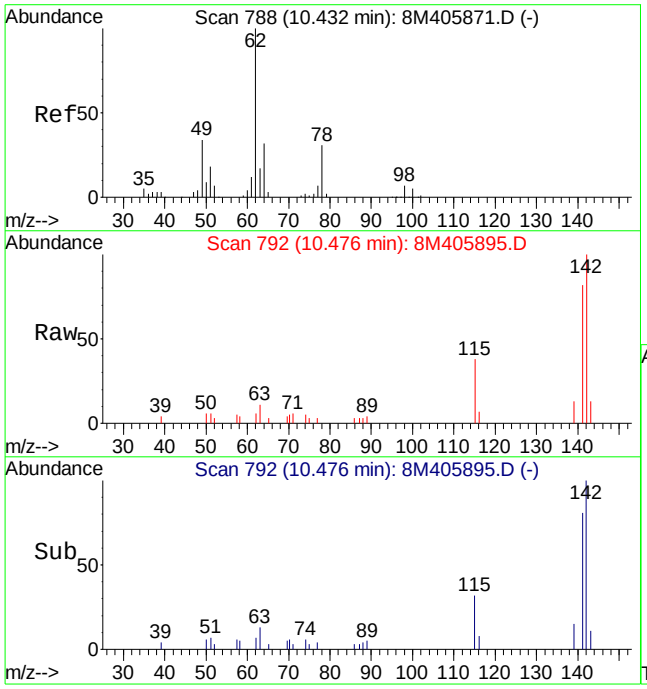


#39
Cyclohexane
Concen: 0.80 ug/L
RT: 9.95 min Scan# 741
Delta R.T. 0.00 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 56 Resp: 3584

Ion	Ratio	Lower	Upper
56	100		
84	38.9	45.4	105.8#
69	13.5	15.8	37.0#

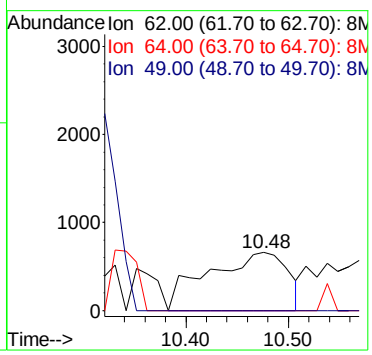


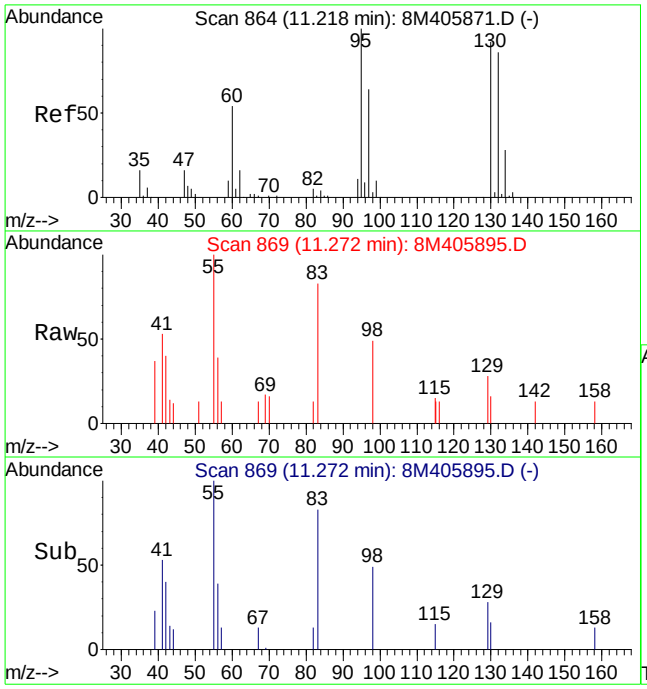


#45
1,2-Dichloroethane
Concen: 0.44 ug/L
RT: 10.48 min Scan# 792
Delta R.T. 0.04 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 62 Resp: 3577

Ion	Ratio	Lower	Upper
62	100		
64	0.0	18.8	44.0#
49	0.0	25.3	58.9#

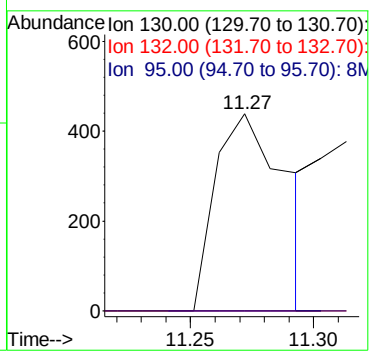


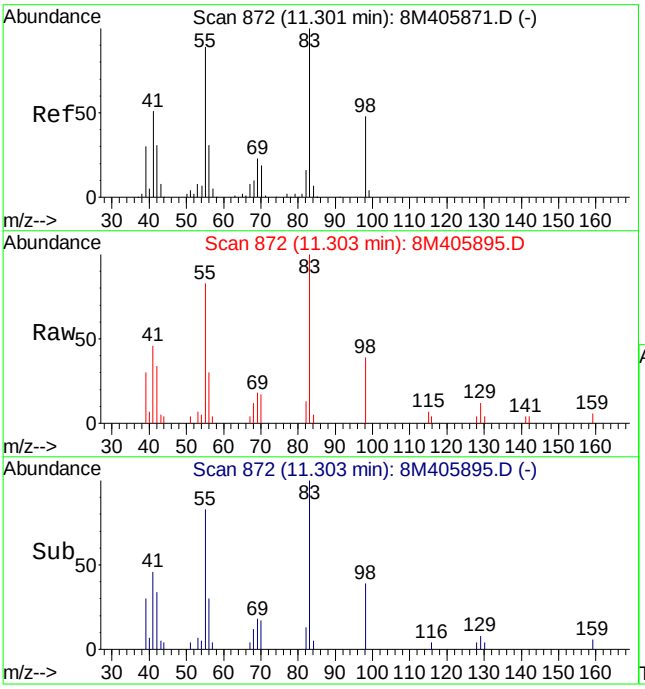


#47
Trichloroethene
Concen: 0.14 ug/L
RT: 11.27 min Scan# 869
Delta R.T. 0.05 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion:130 Resp: 878

Ion	Ratio	Lower	Upper
130	100		
132	0.0	59.0	137.6#
95	0.0	65.0	151.8#

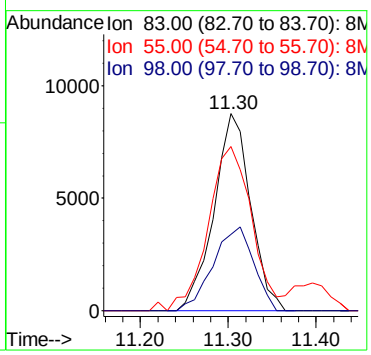


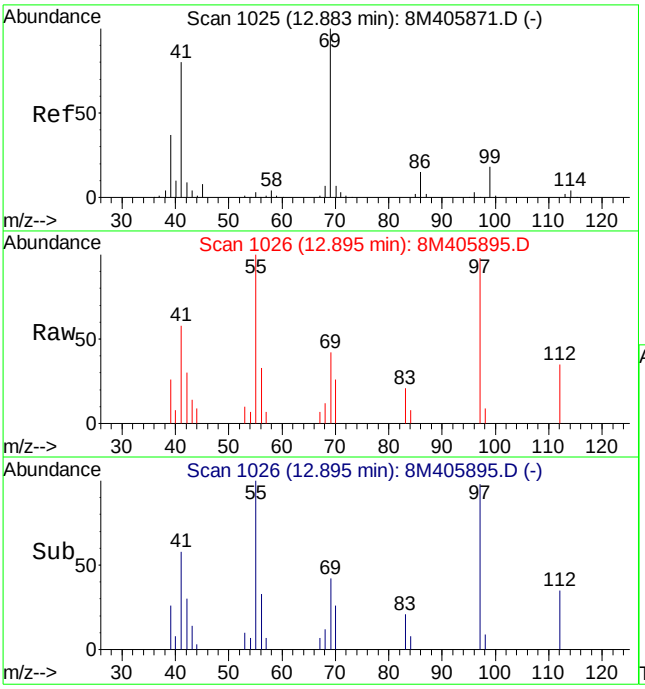


#48
Methylcyclohexane
Concen: 2.42 ug/L
RT: 11.30 min Scan# 872
Delta R.T. 0.00 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 83 Resp: 25457

Ion	Ratio	Lower	Upper
83	100		
55	98.6	54.8	128.0
98	47.0	29.0	67.8

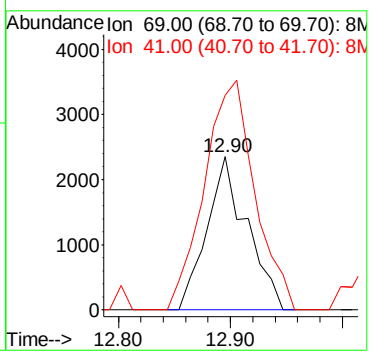


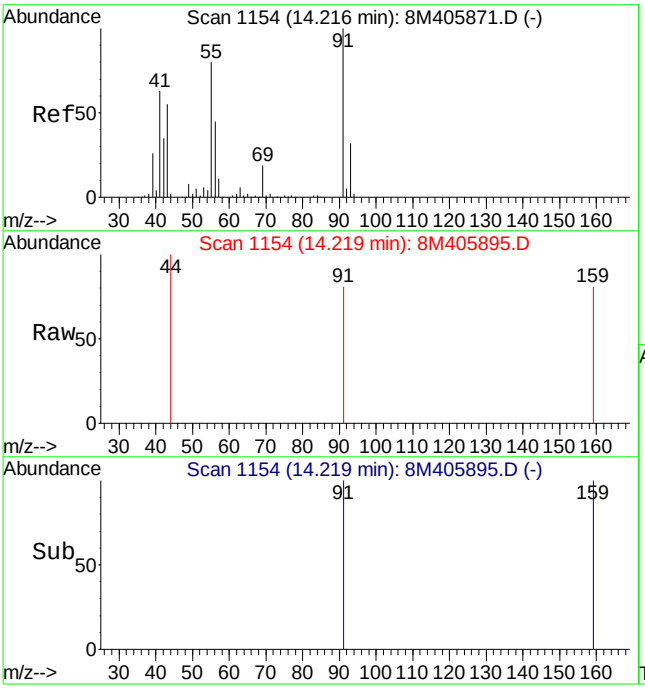


#60
Ethyl Methacrylate
Concen: 1.14 ug/L
RT: 12.90 min Scan# 1026
Delta R.T. 0.01 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 69 Resp: 5820

Ion	Ratio	Lower	Upper
69	100		
41	189.6	48.5	113.3#

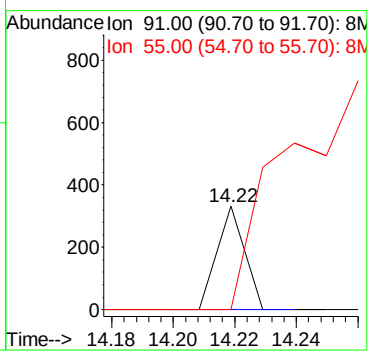


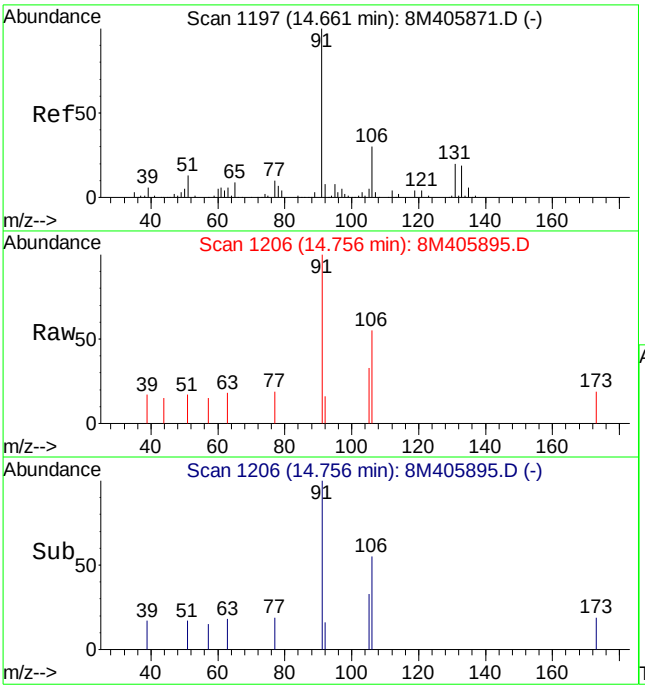


#69
1-Chlorohexane
Concen: 0.18 ug/L
RT: 14.22 min Scan# 1154
Delta R.T. 0.00 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 91 Resp: 206

Ion	Ratio	Lower	Upper
91	100		
55	2031.6	48.3	112.7#

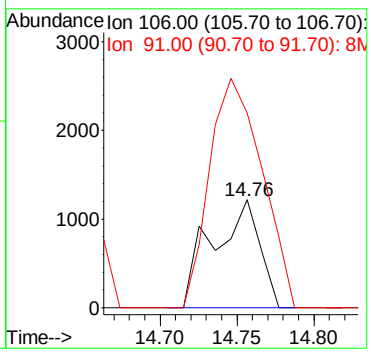


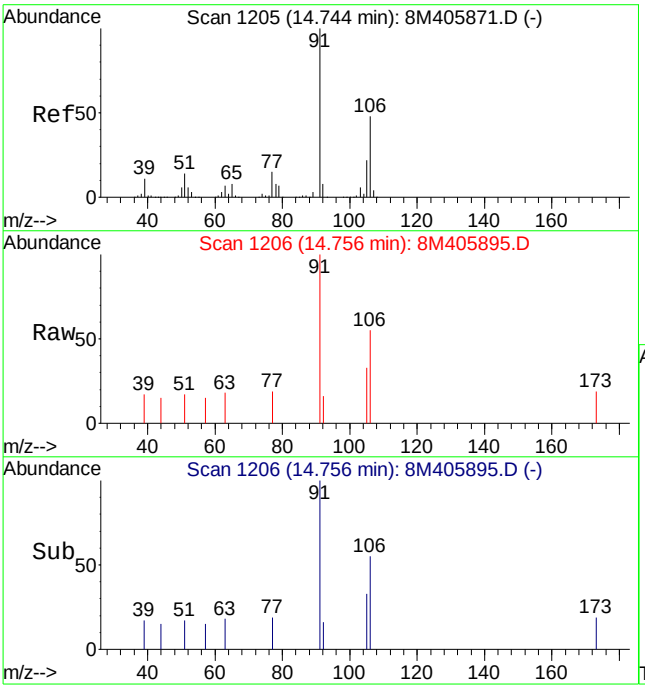


#72
Ethylbenzene
Concen: 0.25 ug/L
RT: 14.76 min Scan# 1206
Delta R.T. 0.10 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion:106 Resp: 2578

Ion	Ratio	Lower	Upper
106	100		
91	238.0	199.7	466.1

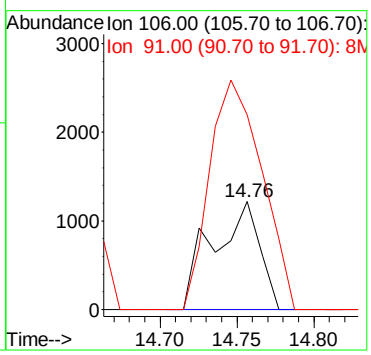


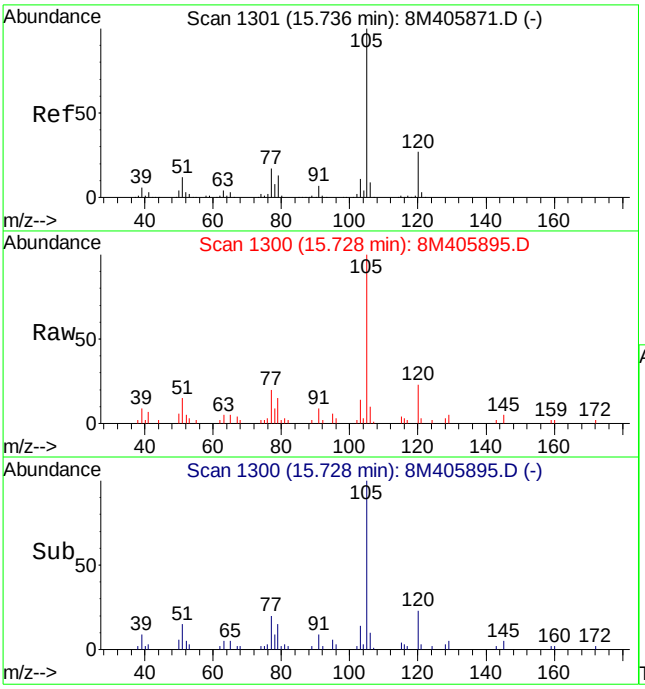


#73
m-,p-Xylene
Concen: 0.21 ug/L
RT: 14.76 min Scan# 1206
Delta R.T. 0.01 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion:106 Resp: 2578

Ion	Ratio	Lower	Upper
106	100		
91	238.0	125.1	291.9

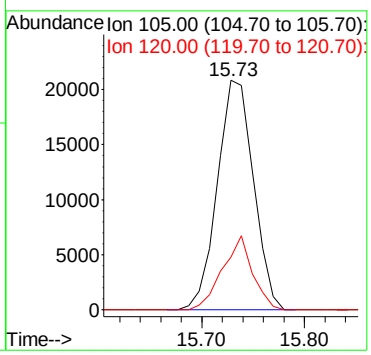


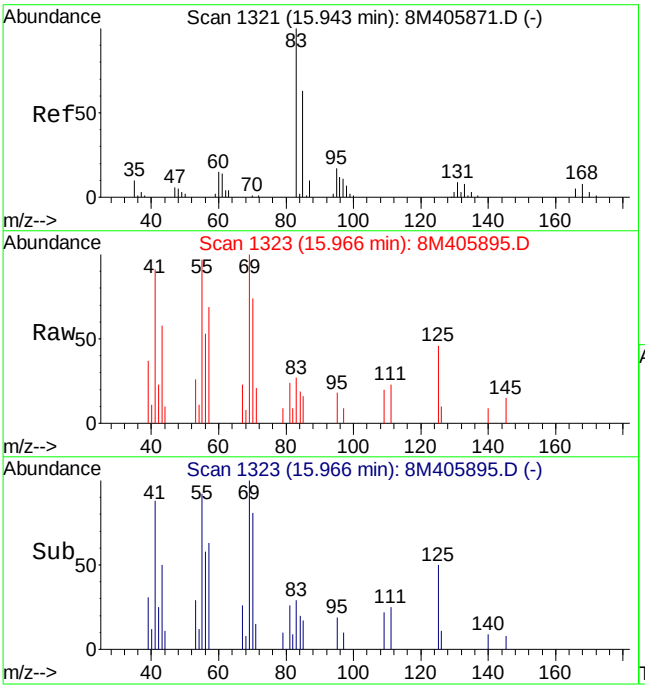


#77
Isopropylbenzene
Concen: 1.71 ug/L
RT: 15.73 min Scan# 1300
Delta R.T. -0.01 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion:105 Resp: 51032

Ion	Ratio	Lower	Upper
105	100		
120	26.7	16.0	37.2

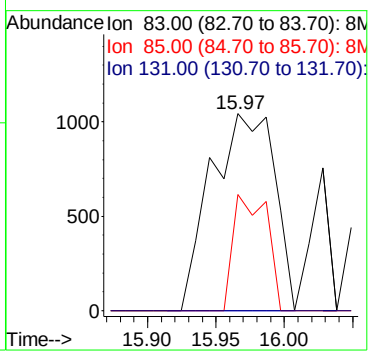


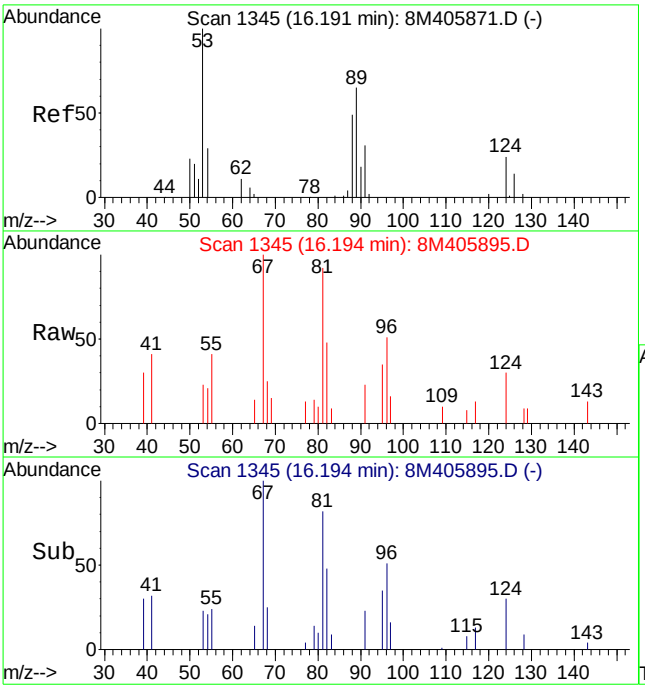


#79
1,1,2,2-Tetrachloroethane
Concen: 0.71 ug/L
RT: 15.97 min Scan# 1323
Delta R.T. 0.02 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 83 Resp: 3368

Ion	Ratio	Lower	Upper
83	100		
85	31.3	38.3	89.3#
131	0.0	5.8	13.4#

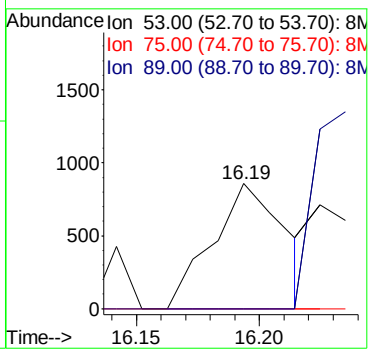


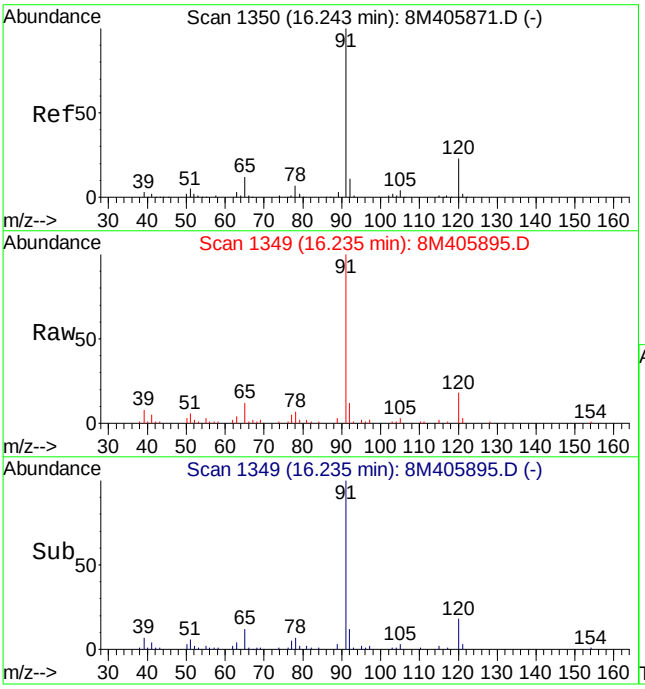


#82
trans-1,4-Dichloro-2-Butene
Concen: 1.54 ug/L
RT: 16.19 min Scan# 1345
Delta R.T. 0.00 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 53 Resp: 1745

Ion	Ratio	Lower	Upper
53	100		
75	11.9	58.5	136.5#
89	197.8	33.5	78.1#

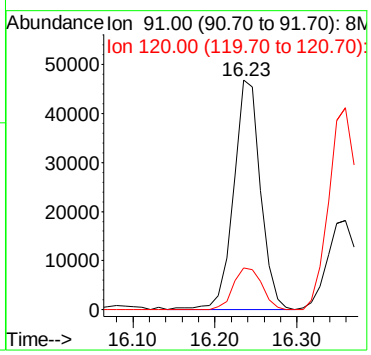


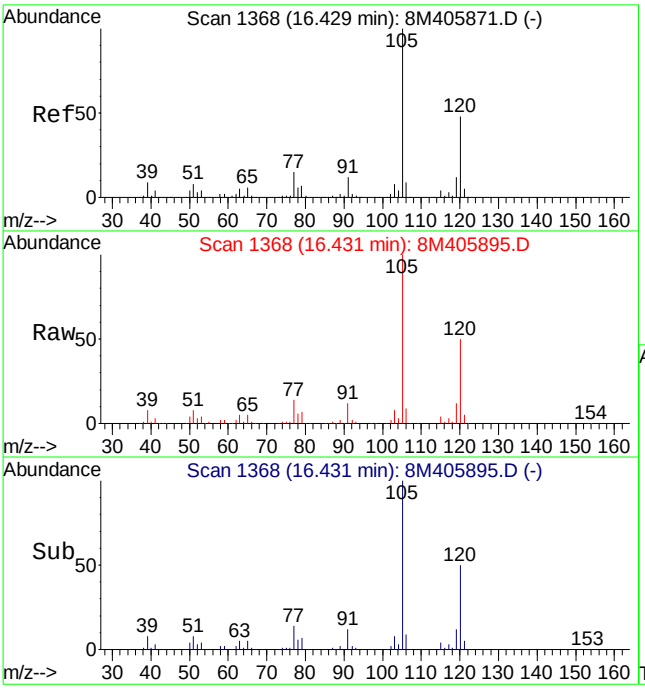


#83
n-Propylbenzene
Concen: 2.78 ug/L
RT: 16.23 min Scan# 1349
Delta R.T. -0.01 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 91 Resp: 106392

Ion	Ratio	Lower	Upper
91	100		
120	19.4	13.1	30.5

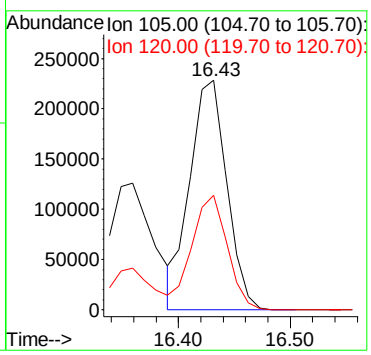


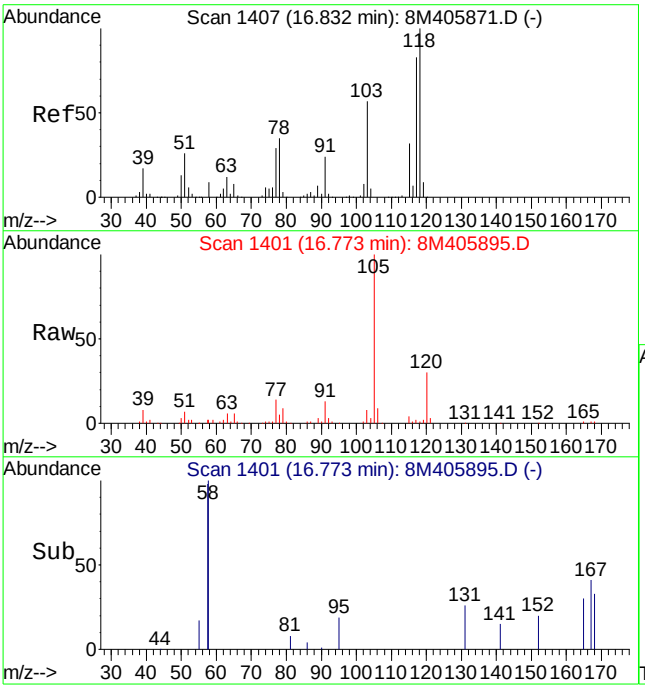


#85
1,3,5-Trimethylbenzene
Concen: 19.72 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. 0.00 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion:105 Resp: 526830

Ion	Ratio	Lower	Upper
105	100		
120	47.8	28.8	67.2

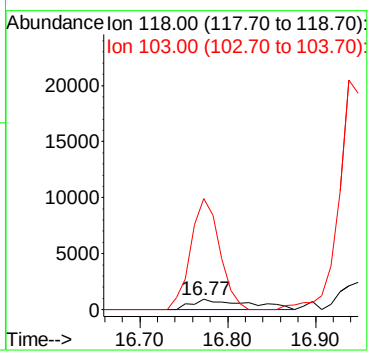


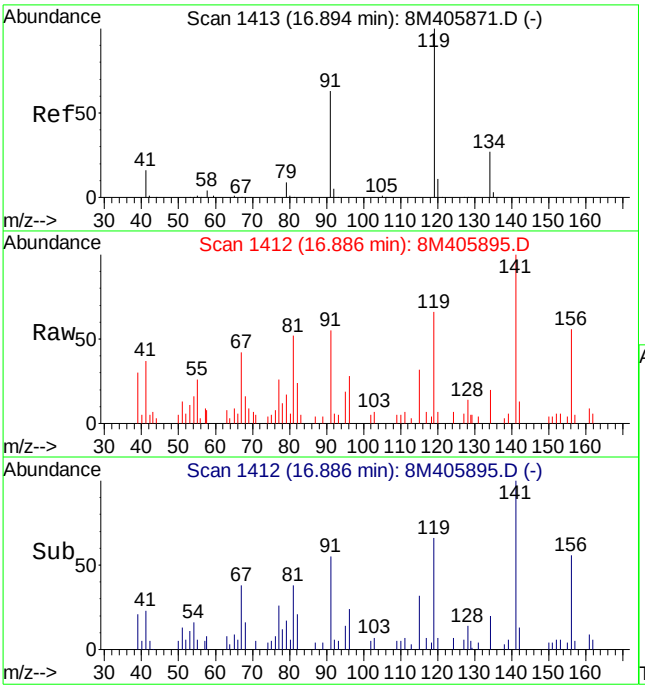


#88
a-Methylstyrene
Concen: 0.30 ug/L
RT: 16.77 min Scan# 1401
Delta R.T. -0.06 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion:118 Resp: 4209

Ion	Ratio	Lower	Upper
118	100		
103	538.6	35.9	83.7#

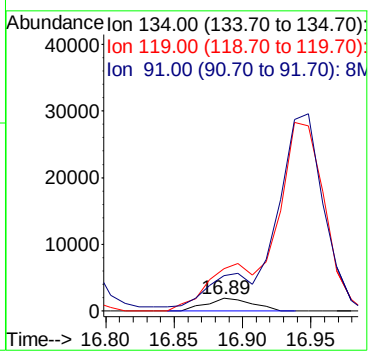


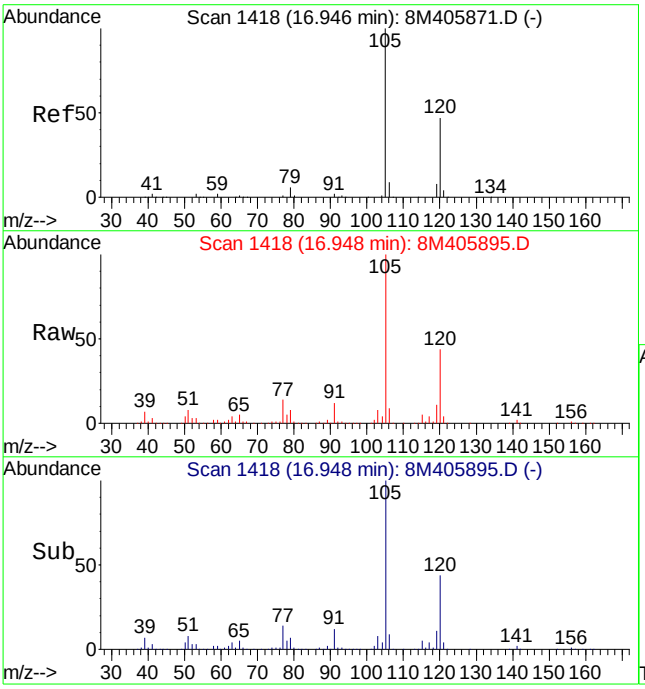


#89
tert-Butylbenzene
Concen: 0.81 ug/L
RT: 16.89 min Scan# 1412
Delta R.T. -0.01 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion:134 Resp: 4402

Ion	Ratio	Lower	Upper
134	100		
119	1837.2	293.9	685.7#
91	1810.3	214.9	501.3#

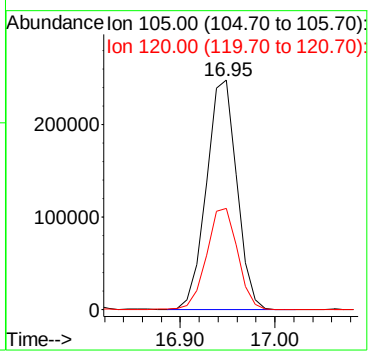


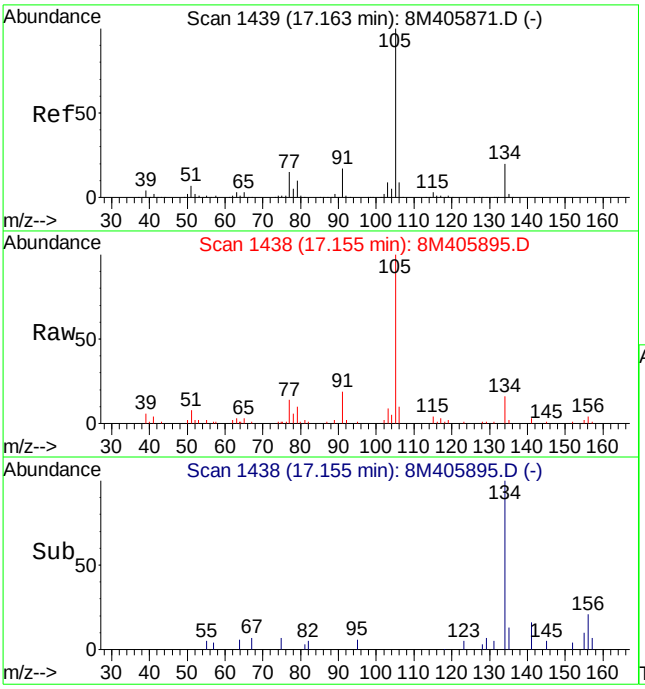


#90
1,2,4-Trimethylbenzene
Concen: 20.37 ug/L
RT: 16.95 min Scan# 1418
Delta R.T. 0.00 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion:105 Resp: 554775

Ion	Ratio	Lower	Upper
105	100		
120	45.2	32.3	75.5

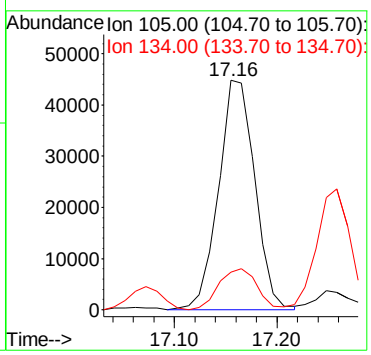


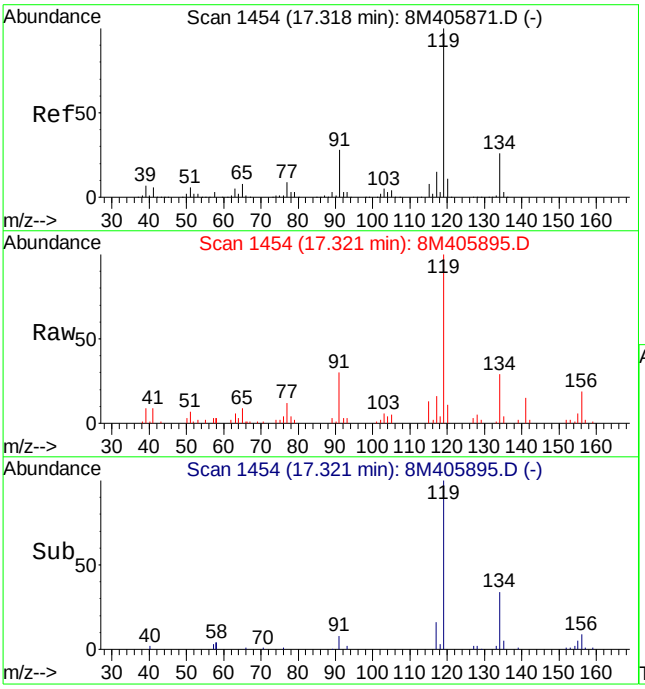


#91
sec-Butylbenzene
Concen: 3.47 ug/L
RT: 17.16 min Scan# 1438
Delta R.T. -0.01 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion:105 Resp: 110342

Ion	Ratio	Lower	Upper
105	100		
134	19.1	11.8	27.4

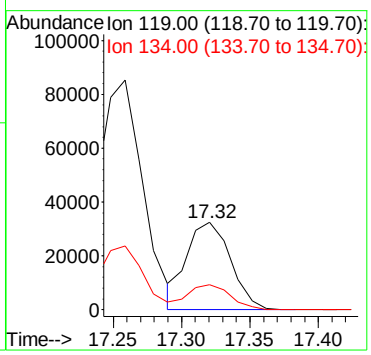


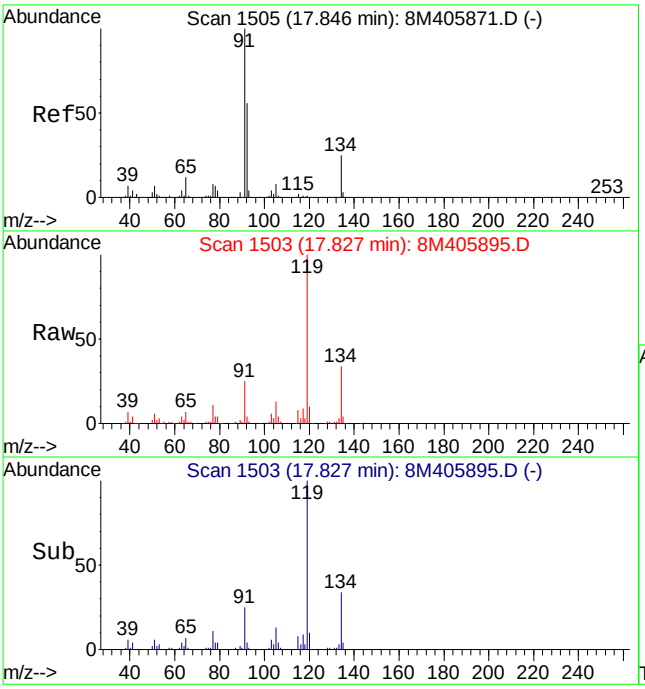


#92
p-Isopropyltoluene
Concen: 2.62 ug/L
RT: 17.32 min Scan# 1454
Delta R.T. 0.00 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion:119 Resp: 72601

Ion	Ratio	Lower	Upper
119	100		
134	27.9	15.8	36.8

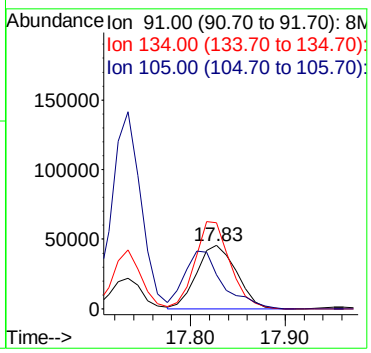


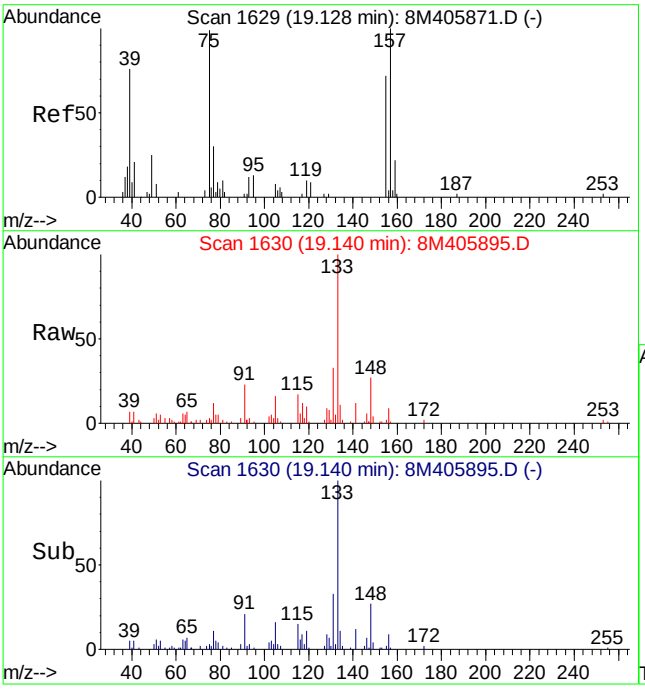


#95
n-Butylbenzene
Concen: 4.93 ug/L
RT: 17.83 min Scan# 1503
Delta R.T. -0.02 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 91 Resp: 133771

Ion	Ratio	Lower	Upper
91	100		
134	121.0	14.4	33.6#
105	86.5	5.0	11.8#

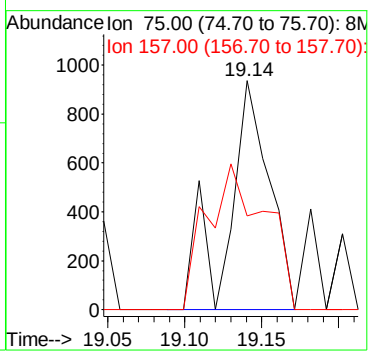


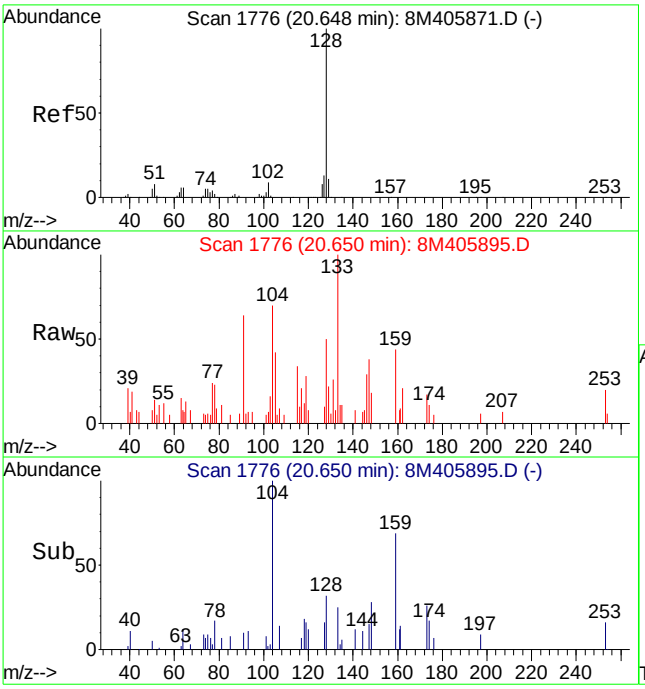


#97
1,2-Dibromo-3-Chloropropane
Concen: 2.08 ug/L
RT: 19.14 min Scan# 1630
Delta R.T. 0.01 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion: 75 Resp: 1748

Ion	Ratio	Lower	Upper
75	100		
157	89.9	61.0	142.4

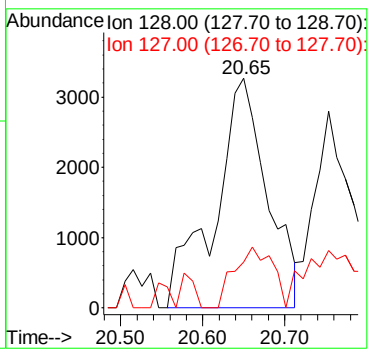




#100
Naphthalene
Concen: 1.06 ug/L
RT: 20.65 min Scan# 1776
Delta R.T. 0.00 min
Lab File: 8M405895.D
Acq: 3 Jul 2015 22:49

Tgt Ion:128 Resp: 14560

Ion	Ratio	Lower	Upper
128	100		
127	19.1	8.0	18.6#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405896.D Vial: 20
Acq On : 3 Jul 2015 23:18 Operator: ADC/ JDS
Sample : L15061450-13 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:42 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

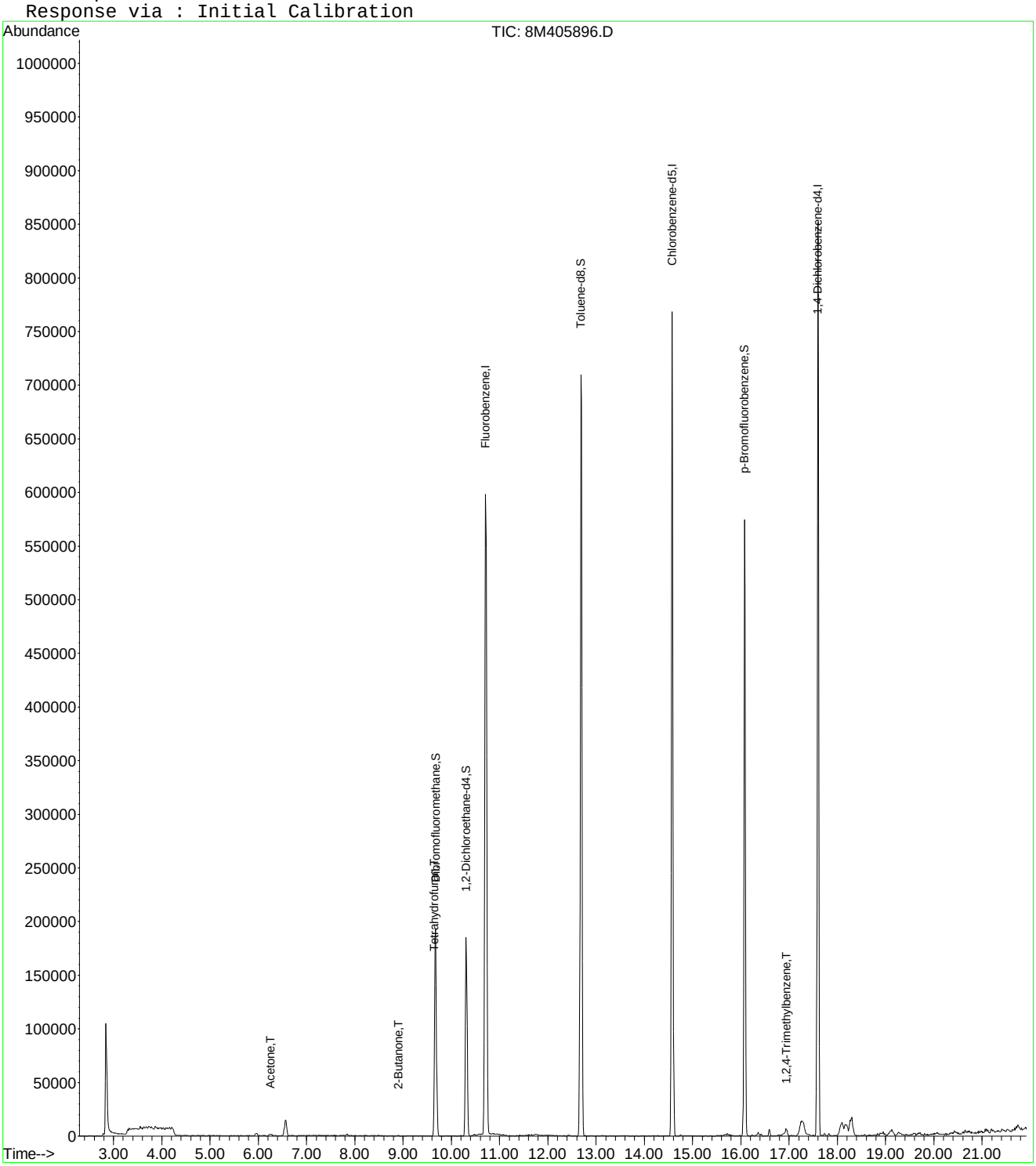
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	705618	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	500303	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	267092	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.68	111	161956	24.7399	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.96%			
43) 1,2-Dichloroethane-d4	10.31	65	160723	25.1009	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 100.40%			
58) Toluene-d8	12.69	98	636783	25.7303	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.92%			
80) p-Bromofluorobenzene	16.08	95	246655	25.8484	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 103.40%			
Target Compounds						Qvalue
13) Acetone	6.25	43	4130	4.7642	ug/L #	68
29) 2-Butanone	8.91	43	771	0.5266	ug/L #	57
36) Tetrahydrofuran	9.66	42	406	0.4151	ug/L #	40
90) 1,2,4-Trimethylbenzene	16.95	105	3557	0.1378	ug/L	76

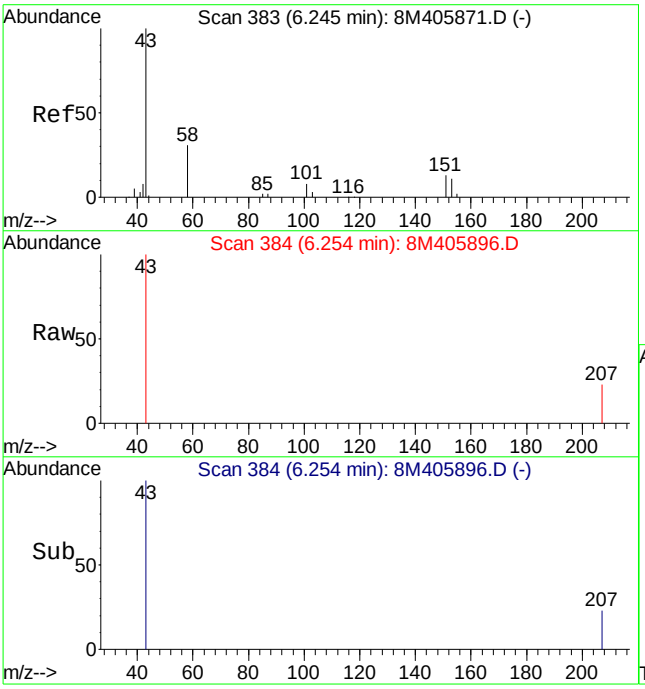
(#) = qualifier out of range (m) = manual integration
8M405896.D 8260WT.M Mon Jul 06 10:26:43 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405896.D Vial: 20
Acq On : 3 Jul 2015 23:18 Operator: ADC/ JDS
Sample : L15061450-13 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

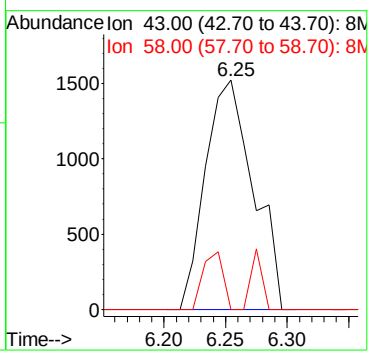


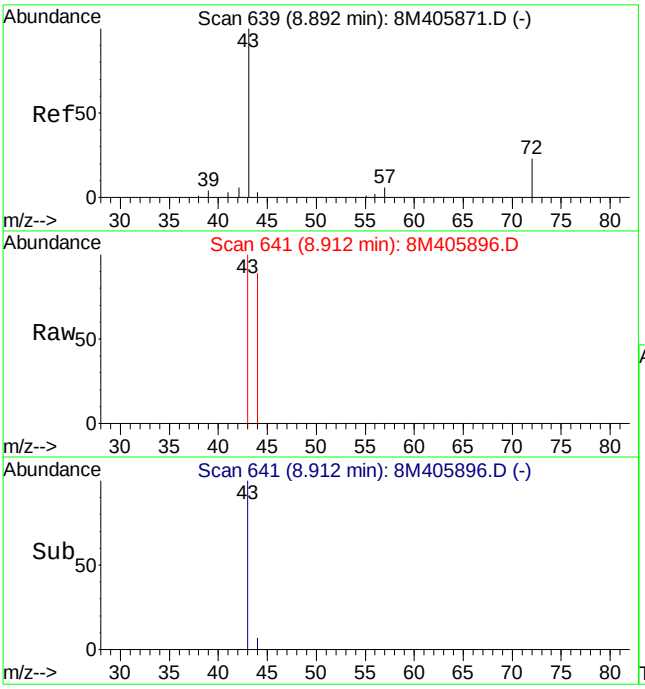


#13
Acetone
Concen: 4.76 ug/L
RT: 6.25 min Scan# 384
Delta R.T. 0.01 min
Lab File: 8M405896.D
Acq: 3 Jul 2015 23:18

Tgt Ion: 43 Resp: 4130

Ion	Ratio	Lower	Upper
43	100		
58	10.6	16.4	38.2#

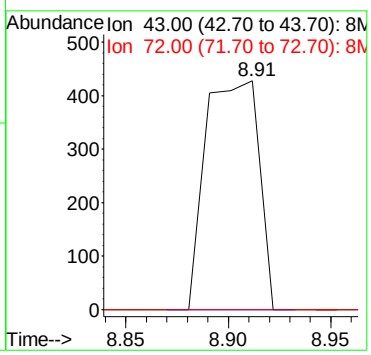


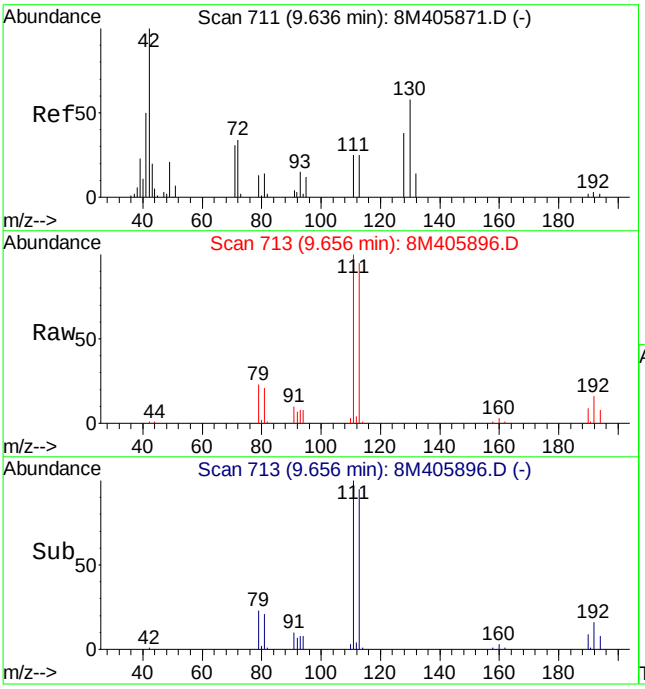


#29
2-Butanone
Concen: 0.53 ug/L
RT: 8.91 min Scan# 641
Delta R.T. 0.02 min
Lab File: 8M405896.D
Acq: 3 Jul 2015 23:18

Tgt Ion: 43 Resp: 771

Ion	Ratio	Lower	Upper
43	100		
72	0.0	11.9	27.9#

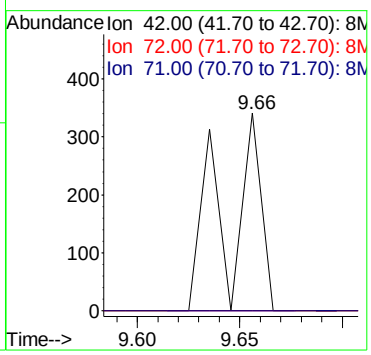


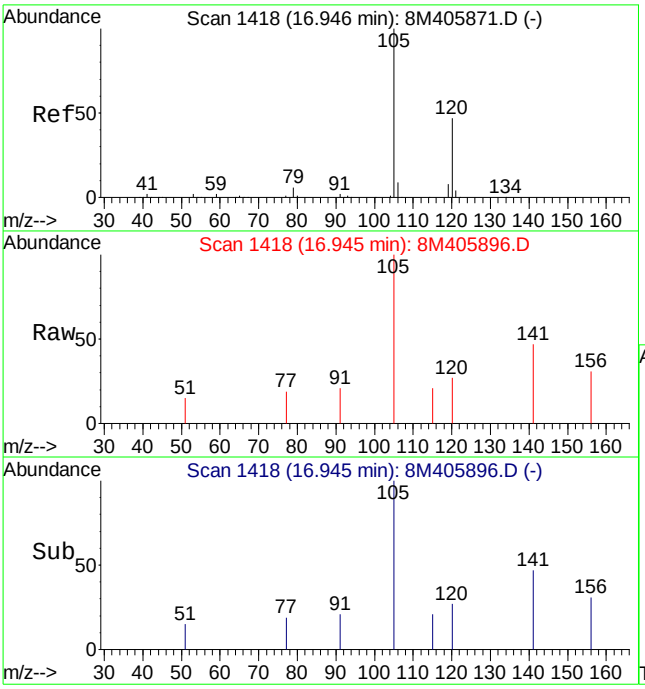


#36
Tetrahydrofuran
Concen: 0.42 ug/L
RT: 9.66 min Scan# 713
Delta R.T. 0.02 min
Lab File: 8M405896.D
Acq: 3 Jul 2015 23:18

Tgt Ion: 42 Resp: 406

Ion	Ratio	Lower	Upper
42	100		
72	0.0	22.4	52.4#
71	0.0	19.5	45.5#

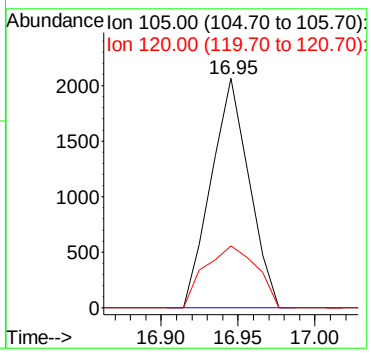




#90
1,2,4-Trimethylbenzene
Concen: 0.14 ug/L
RT: 16.95 min Scan# 1418
Delta R.T. -0.00 min
Lab File: 8M405896.D
Acq: 3 Jul 2015 23:18

Tgt Ion:105 Resp: 3557

Ion	Ratio	Lower	Upper
105	100		
120	36.6	32.3	75.5



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405897.D Vial: 21
Acq On : 3 Jul 2015 23:47 Operator: ADC/ JDS
Sample : L15061450-14 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:44 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

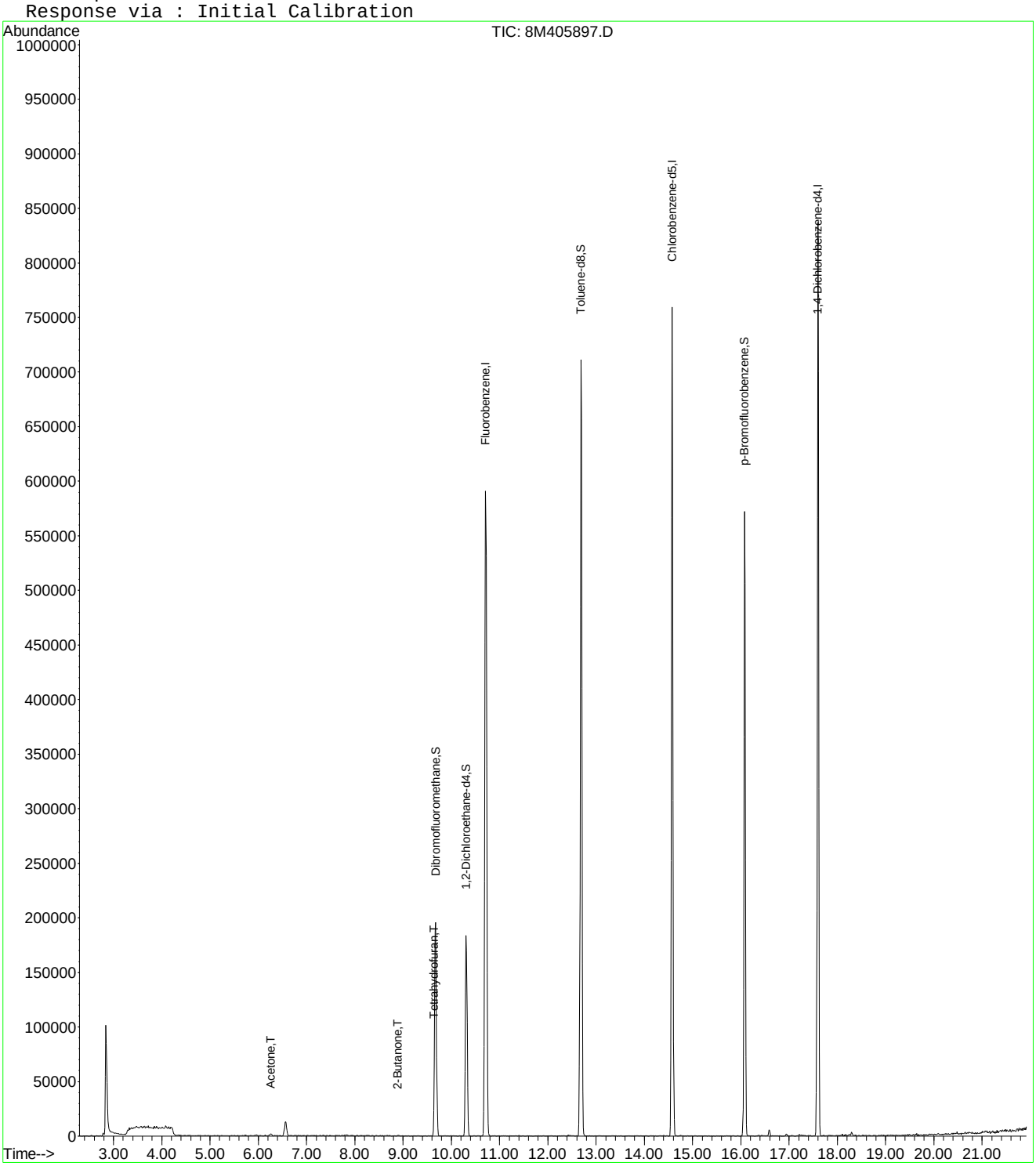
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	694969	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	493588	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	262210	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.68	111	163712	25.3913	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.56%			
43) 1,2-Dichloroethane-d4	10.31	65	163413	25.9120	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 103.64%			
58) Toluene-d8	12.69	98	628481	25.7404	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.96%			
80) p-Bromofluorobenzene	16.08	95	243688	26.0130	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.04%			
Target Compounds						Qvalue
13) Acetone	6.26	43	3933	4.6064	ug/L	90
29) 2-Butanone	8.89	43	839	0.5818	ug/L #	57
36) Tetrahydrofuran	9.65	42	382	0.3965	ug/L #	40

(#) = qualifier out of range (m) = manual integration
8M405897.D 8260WT.M Mon Jul 06 10:26:44 2015 Page 1

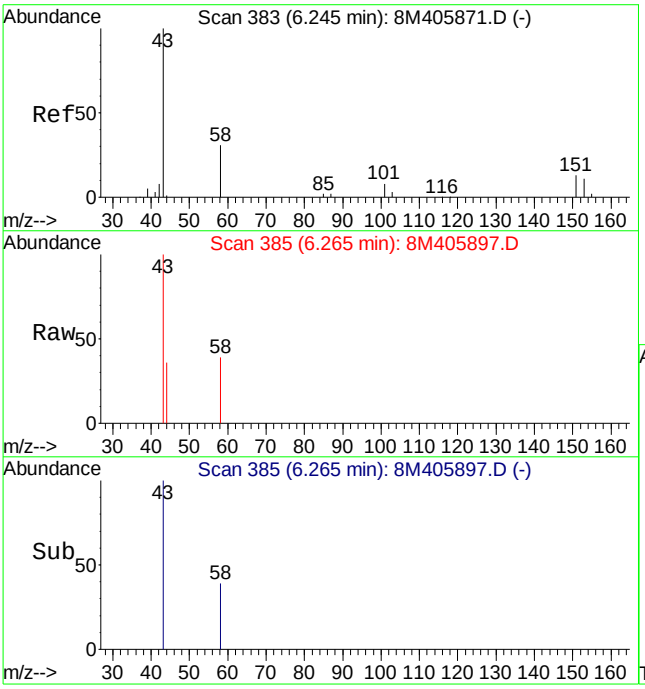
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405897.D Vial: 21
Acq On : 3 Jul 2015 23:47 Operator: ADC/ JDS
Sample : L15061450-14 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



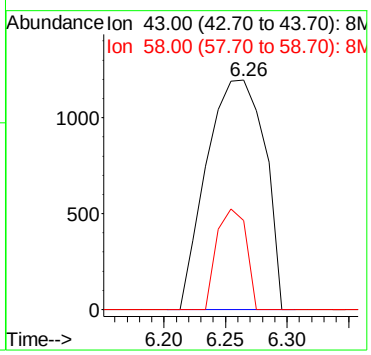
8M405897.D 8260WT.M Mon Jul 06 10:26:44 2015 Page 2

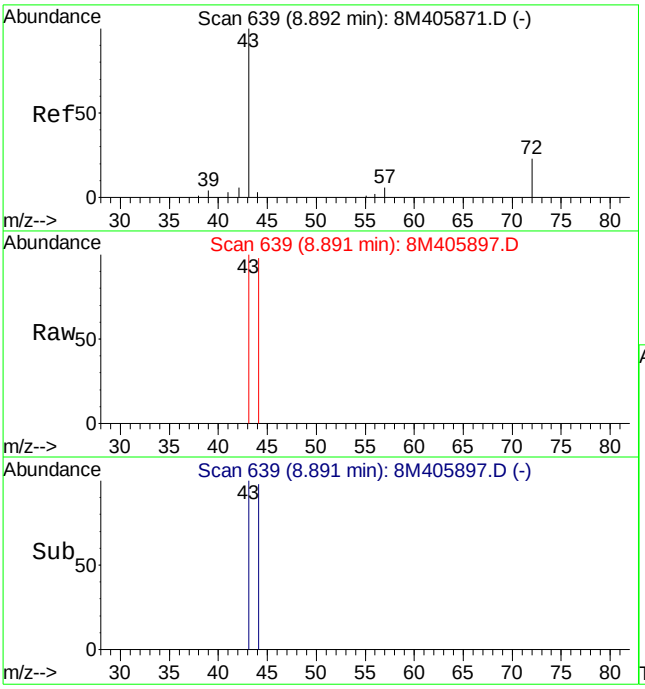


#13
Acetone
Concen: 4.61 ug/L
RT: 6.26 min Scan# 385
Delta R.T. 0.02 min
Lab File: 8M405897.D
Acq: 3 Jul 2015 23:47

Tgt Ion: 43 Resp: 3933

Ion	Ratio	Lower	Upper
43	100		
58	22.2	16.4	38.2

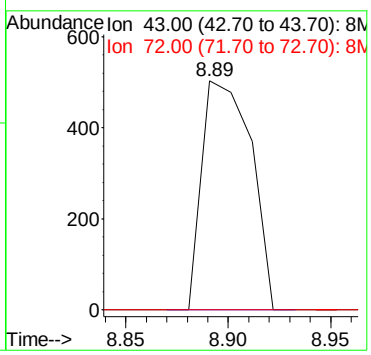


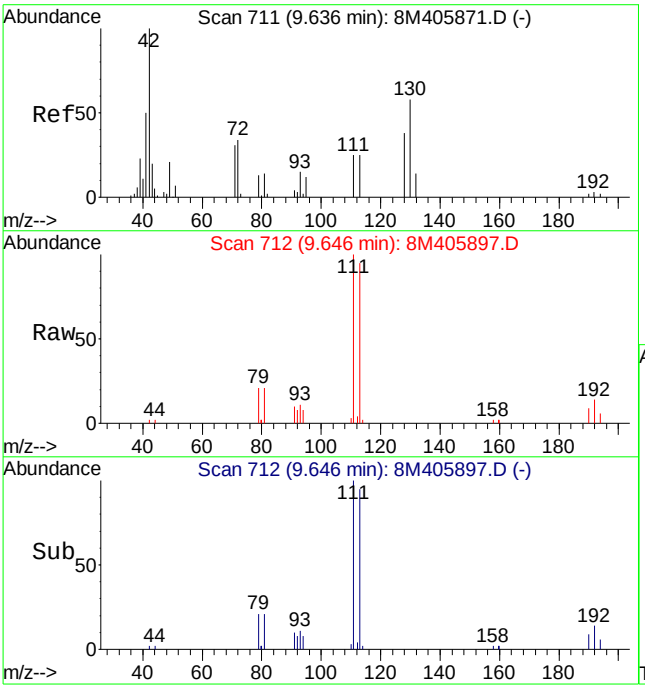


#29
2-Butanone
Concen: 0.58 ug/L
RT: 8.89 min Scan# 639
Delta R.T. -0.00 min
Lab File: 8M405897.D
Acq: 3 Jul 2015 23:47

Tgt Ion: 43 Resp: 839

Ion	Ratio	Lower	Upper
43	100		
72	0.0	11.9	27.9#

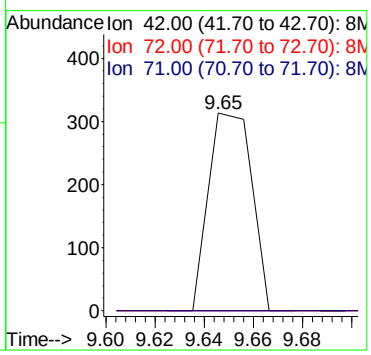




#36
Tetrahydrofuran
Concen: 0.40 ug/L
RT: 9.65 min Scan# 712
Delta R.T. 0.01 min
Lab File: 8M405897.D
Acq: 3 Jul 2015 23:47

Tgt Ion: 42 Resp: 382

Ion	Ratio	Lower	Upper
42	100		
72	0.0	22.4	52.4#
71	0.0	19.5	45.5#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405898.D Vial: 22
Acq On : 4 Jul 2015 00:15 Operator: ADC/ JDS
Sample : L15061450-15 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:26:45 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

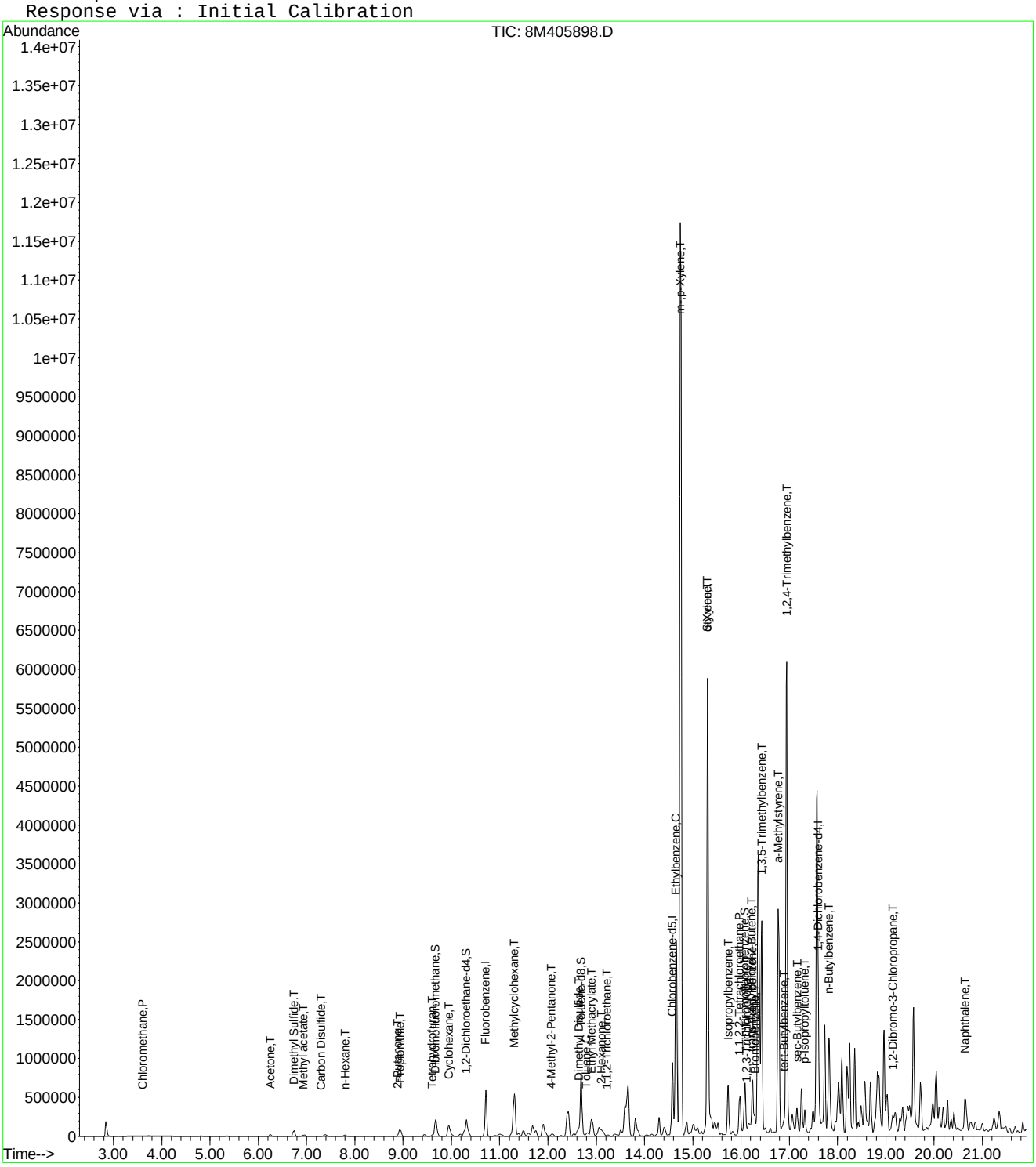
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	687498	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.58	117	494114	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	292328	25.00	ug/L		0.00
System Monitoring Compounds							
37) Dibromofluoromethane	9.67	111	161689	25.3501	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.40%				
43) 1,2-Dichloroethane-d4	10.31	65	160397	25.7102	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 102.84%				
58) Toluene-d8	12.69	98	630079	25.7783	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.12%				
80) p-Bromofluorobenzene	16.08	95	263011	25.1831	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.72%				
Target Compounds							Qvalue
3) Chloromethane	3.61	50	2314	0.1714	ug/L		83
13) Acetone	6.26	43	53467	63.3027	ug/L		92
16) Dimethyl Sulfide	6.74	62	56530	10.3316	ug/L		96
18) Methyl acetate	6.94	43	26643	7.9439	ug/L	#	64
20) Carbon Disulfide	7.30	76	2629	0.1456	ug/L	#	74
24) n-Hexane	7.80	57	15173	1.5799	ug/L		86
29) 2-Butanone	8.89	43	26834	18.8099	ug/L		89
30) Propionitrile	8.93	54	3337	7.8918	ug/L		84
36) Tetrahydrofuran	9.61	42	4184	4.3905	ug/L	#	1
39) Cyclohexane	9.95	56	126626	10.1986	ug/L		92
48) Methylcyclohexane	11.30	83	333172	32.8628	ug/L		95
54) 4-Methyl-2-Pentanone	12.07	58	1305	1.0119	ug/L	#	1
56) Dimethyl Disulfide	12.65	79	2145	0.4057	ug/L	#	1
59) Toluene	12.79	91	6905	0.2538	ug/L		100
60) Ethyl Methacrylate	12.90	69	33514	6.6780	ug/L	#	1
63) 1,1,2-Trichloroethane	13.23	97	3093	0.7355	ug/L	#	7
64) 2-Hexanone	13.11	58	6842	5.6311	ug/L	#	1
72) Ethylbenzene	14.65	106	678149	66.0709	ug/L		98
73) m-,p-Xylene	14.75	106	4212203	348.4592	ug/L		82
74) o-Xylene	15.30	106	2037943	173.8070	ug/L		95
75) Styrene	15.30	104	106528	5.6527	ug/L	#	1
77) Isopropylbenzene	15.74	105	589268	20.0339	ug/L		100
79) 1,1,2,2-Tetrachloroethane	15.97	83	28699	5.8177	ug/L	#	1
81) 1,2,3-Trichloropropane	16.12	110	1665	1.1755	ug/L	#	1
82) trans-1,4-Dichloro-2-Buten	16.22	53	10620	6.4069	ug/L	#	1
83) n-Propylbenzene	16.23	91	686430	17.2767	ug/L		98
84) Bromobenzene	16.30	156	1054	0.1300	ug/L	#	1
85) 1,3,5-Trimethylbenzene	16.43	105	1892170	68.2855	ug/L		99
88) a-Methylstyrene	16.77	118	8770	0.5966	ug/L	#	1
89) tert-Butylbenzene	16.90	134	3769	0.6674	ug/L	#	1
90) 1,2,4-Trimethylbenzene	16.95	105	4204431	148.8535	ug/L		92
91) sec-Butylbenzene	17.16	105	312826	9.4739	ug/L		99
92) p-Isopropyltoluene	17.32	119	225036	7.8424	ug/L		100
95) n-Butylbenzene	17.83	91	319032	11.3378	ug/L	#	1
97) 1,2-Dibromo-3-Chloropropan	19.15	75	3028	3.4713	ug/L	#	1
100) Naphthalene	20.64	128	325403	22.8709	ug/L		96

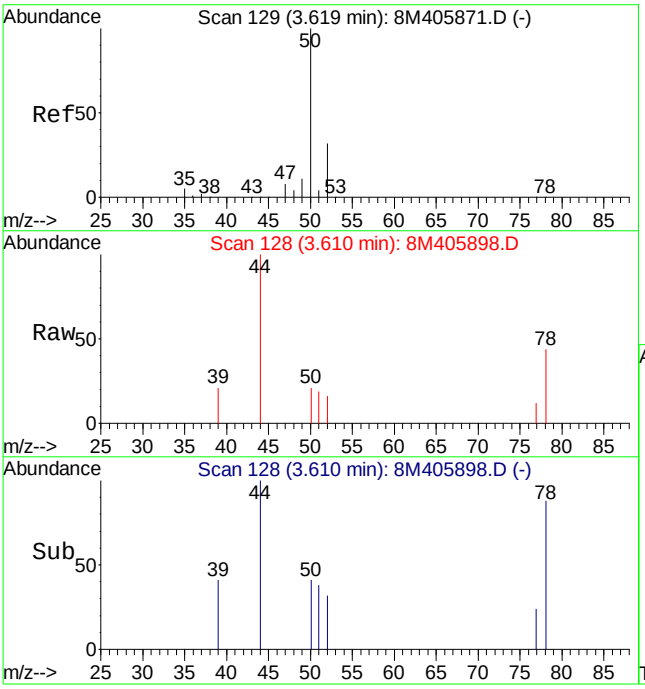
(#) = qualifier out of range (m) = manual integration
8M405898.D 8260WT.M Mon Jul 06 10:26:46 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405898.D Vial: 22
Acq On : 4 Jul 2015 00:15 Operator: ADC/ JDS
Sample : L15061450-15 A 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:26 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

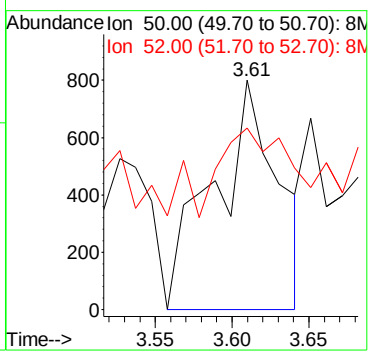


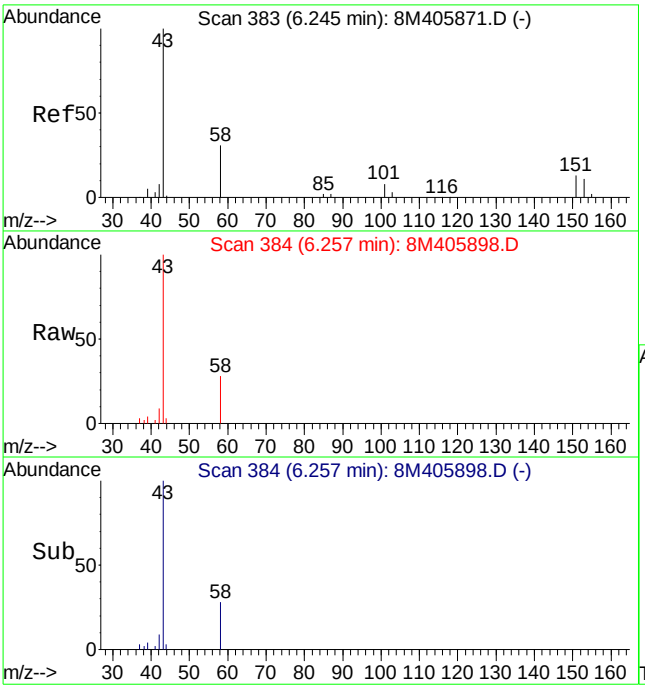


#3
Chloromethane
Concen: 0.17 ug/L
RT: 3.61 min Scan# 128
Delta R.T. -0.01 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 50 Resp: 2314

Ion	Ratio	Lower	Upper
50	100		
52	41.2	19.2	44.8

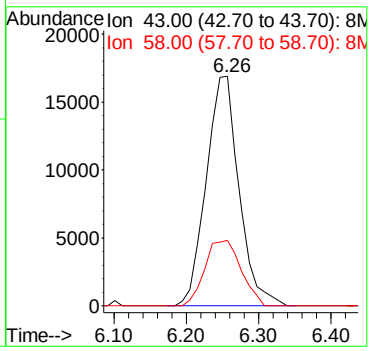


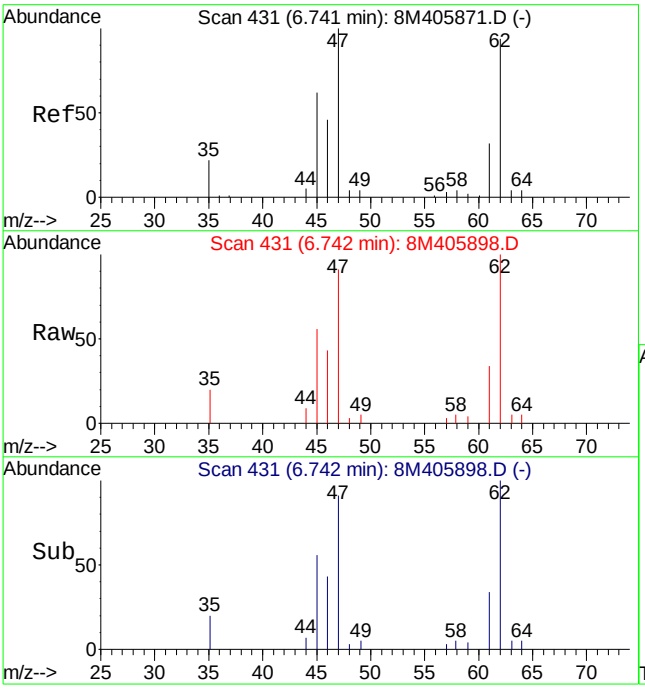


#13
Acetone
Concen: 63.30 ug/L
RT: 6.26 min Scan# 384
Delta R.T. 0.01 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 43 Resp: 53467

Ion	Ratio	Lower	Upper
43	100		
58	31.4	16.4	38.2

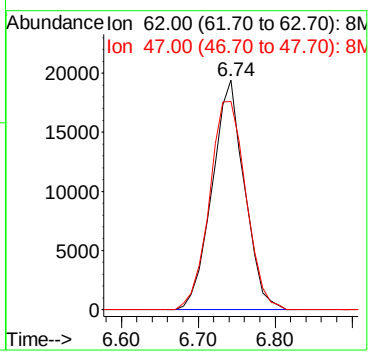


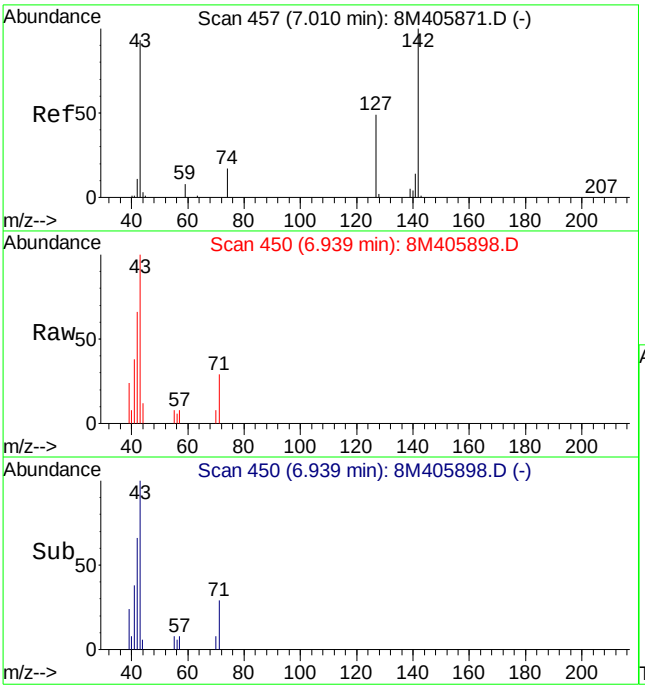


#16
Dimethyl Sulfide
Concen: 10.33 ug/L
RT: 6.74 min Scan# 431
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 62 Resp: 56530

Ion	Ratio	Lower	Upper
62	100		
47	102.6	64.3	149.9

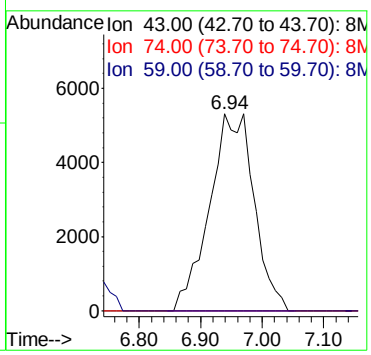


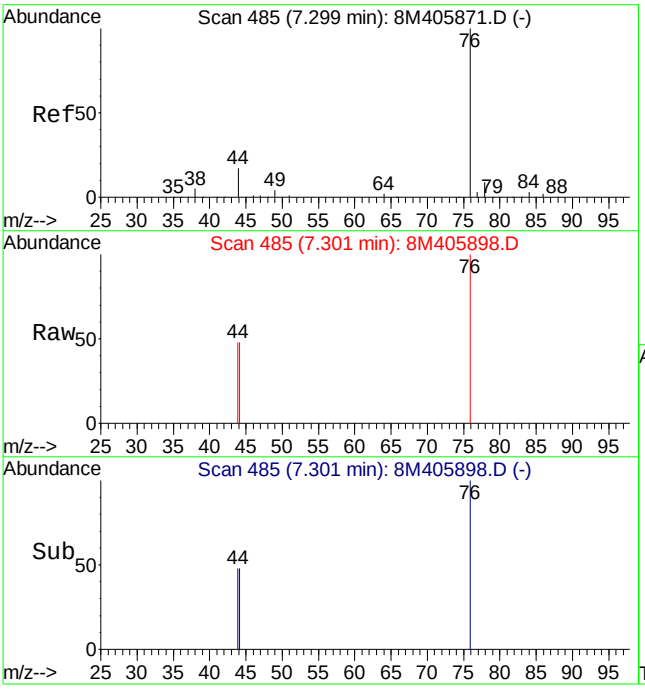


#18
Methyl acetate
Concen: 7.94 ug/L
RT: 6.94 min Scan# 450
Delta R.T. -0.07 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 43 Resp: 26643

Ion	Ratio	Lower	Upper
43	100		
74	0.0	11.2	26.2#
59	0.0	4.7	11.1#

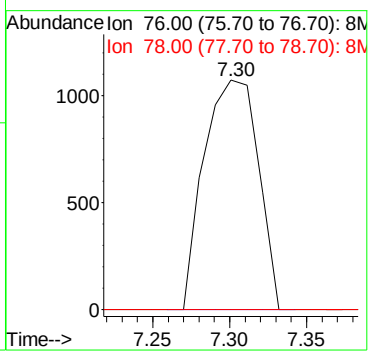


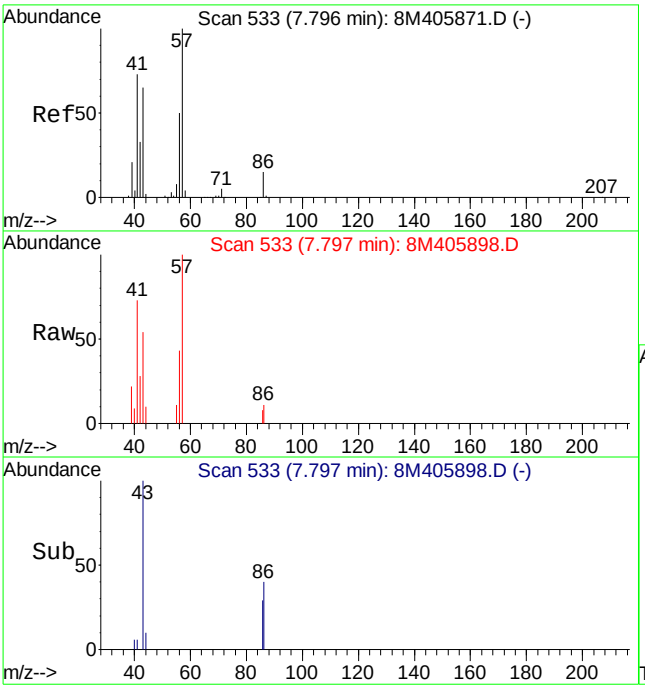


#20
Carbon Disulfide
Concen: 0.15 ug/L
RT: 7.30 min Scan# 485
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 76 Resp: 2629

Ion	Ratio	Lower	Upper
76	100		
78	0.0	5.7	13.3#

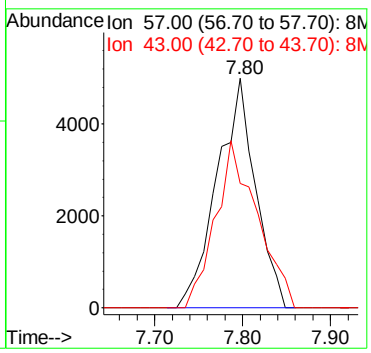


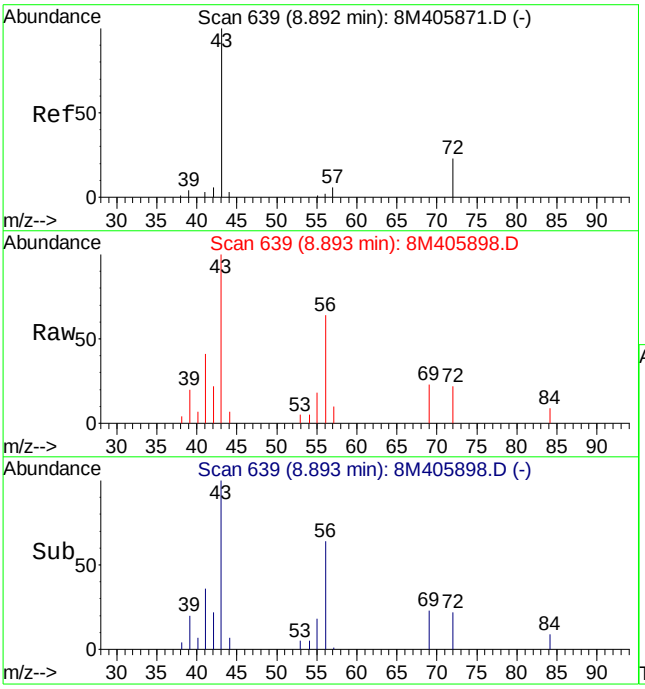


#24
n-Hexane
Concen: 1.58 ug/L
RT: 7.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 57 Resp: 15173

Ion	Ratio	Lower	Upper
57	100		
43	79.0	40.6	94.6

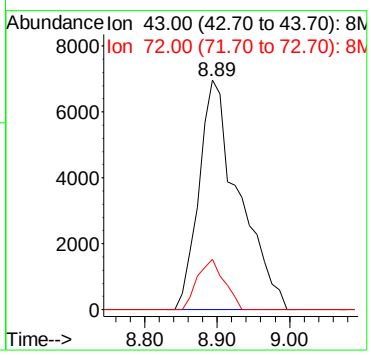


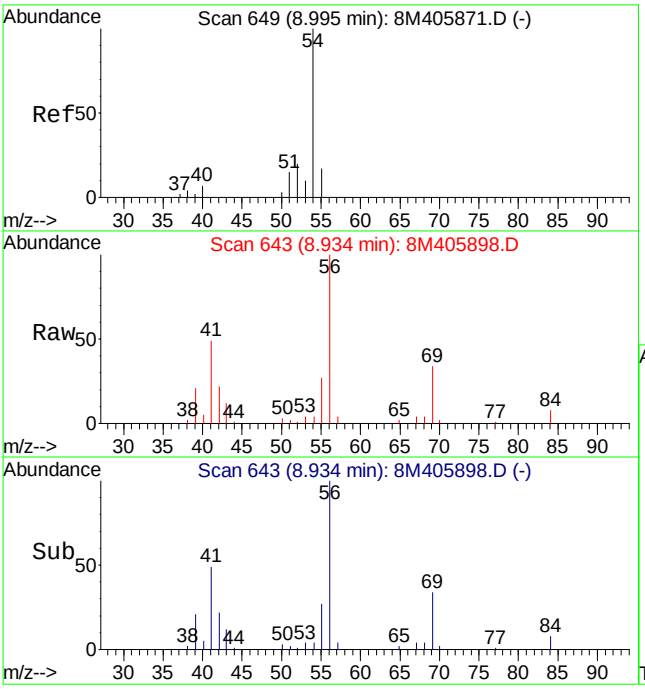


#29
2-Butanone
Concen: 18.81 ug/L
RT: 8.89 min Scan# 639
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 43 Resp: 26834

Ion	Ratio	Lower	Upper
43	100		
72	14.6	11.9	27.9

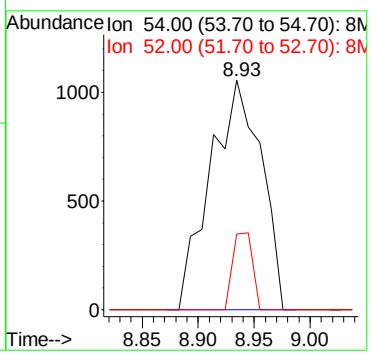


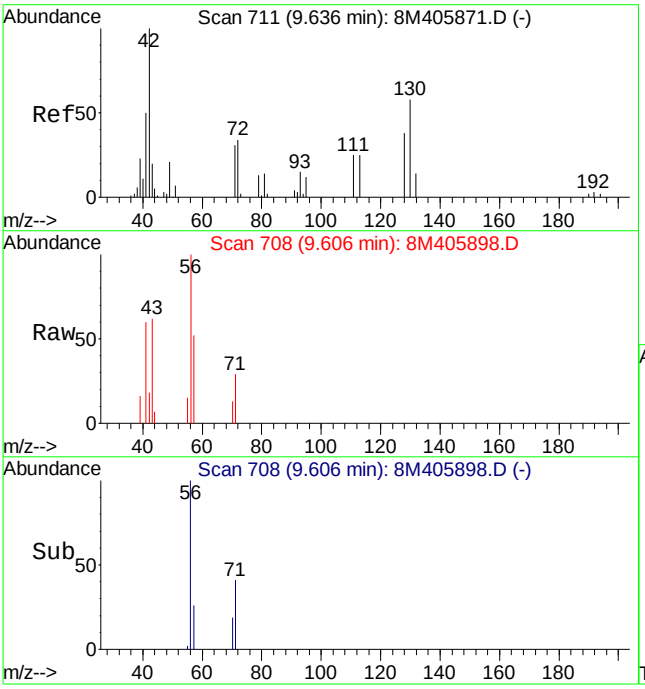


#30
Propionitrile
Concen: 7.89 ug/L
RT: 8.93 min Scan# 643
Delta R.T. -0.06 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 54 Resp: 3337

Ion	Ratio	Lower	Upper
54	100		
52	13.1	12.4	28.8

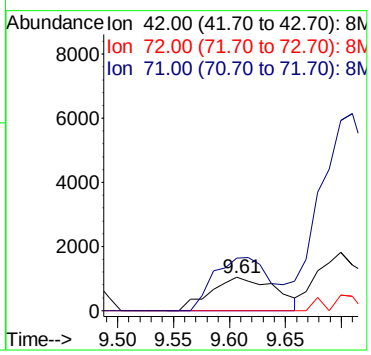


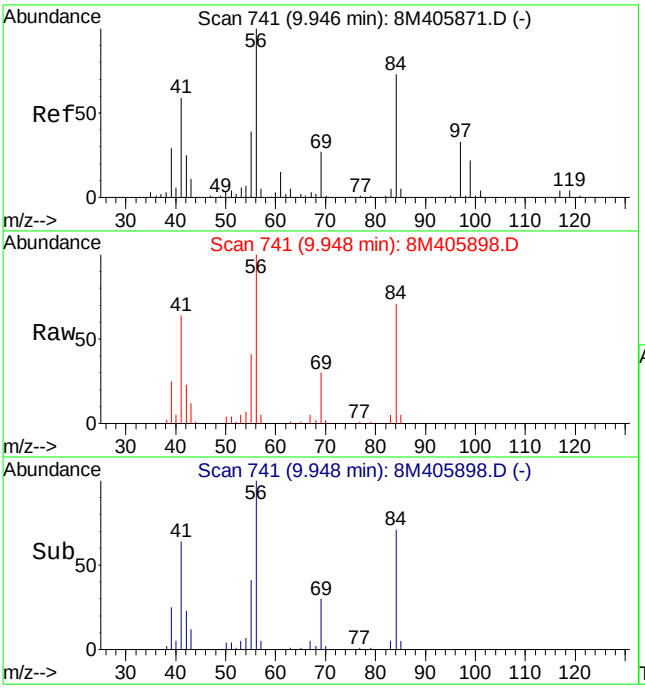


#36
Tetrahydrofuran
Concen: 4.39 ug/L
RT: 9.61 min Scan# 708
Delta R.T. -0.03 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 42 Resp: 4184

Ion	Ratio	Lower	Upper
42	100		
72	0.0	22.4	52.4#
71	139.2	19.5	45.5#

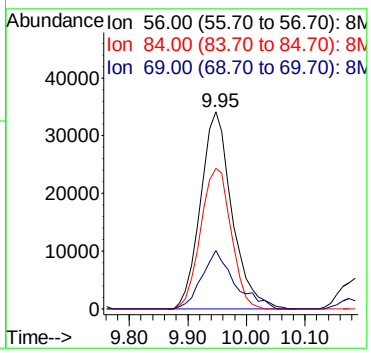


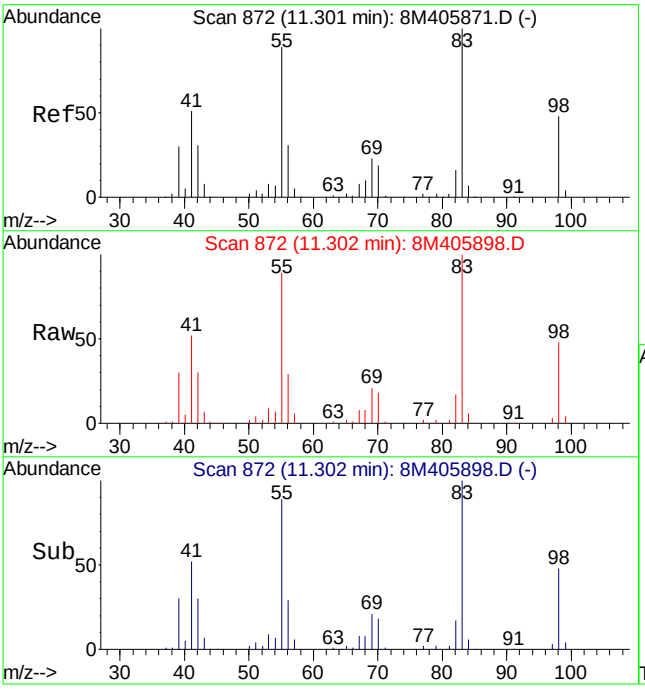


#39
Cyclohexane
Concen: 10.20 ug/L
RT: 9.95 min Scan# 741
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 56 Resp: 126626

Ion	Ratio	Lower	Upper
56	100		
84	69.1	45.4	105.8
69	30.8	15.8	37.0

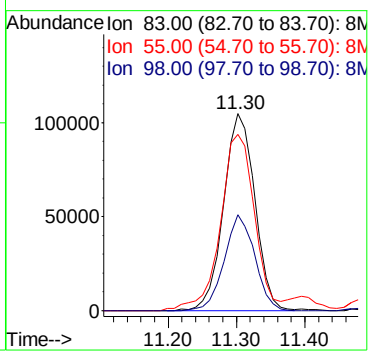


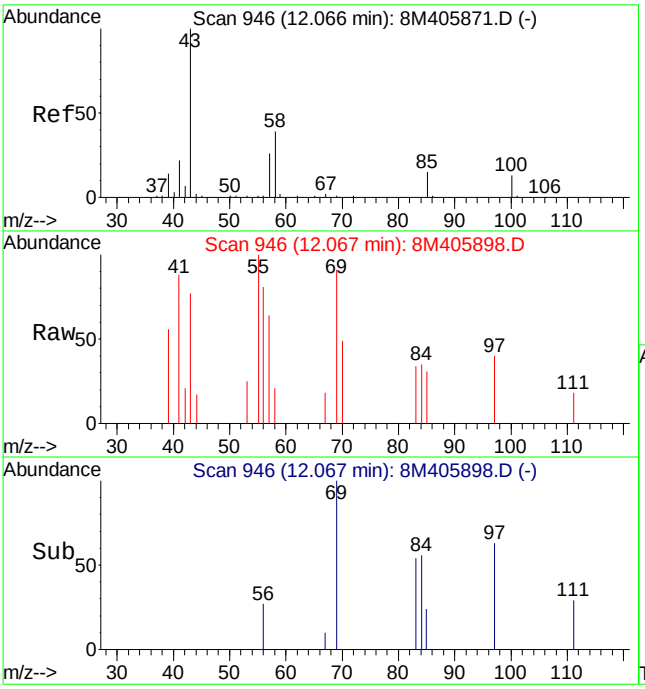


#48
Methylcyclohexane
Concen: 32.86 ug/L
RT: 11.30 min Scan# 872
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 83 Resp: 333172

Ion	Ratio	Lower	Upper
83	100		
55	97.3	54.8	128.0
98	47.3	29.0	67.8

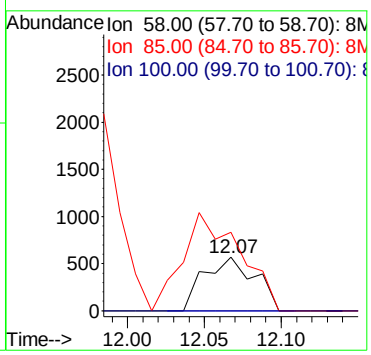


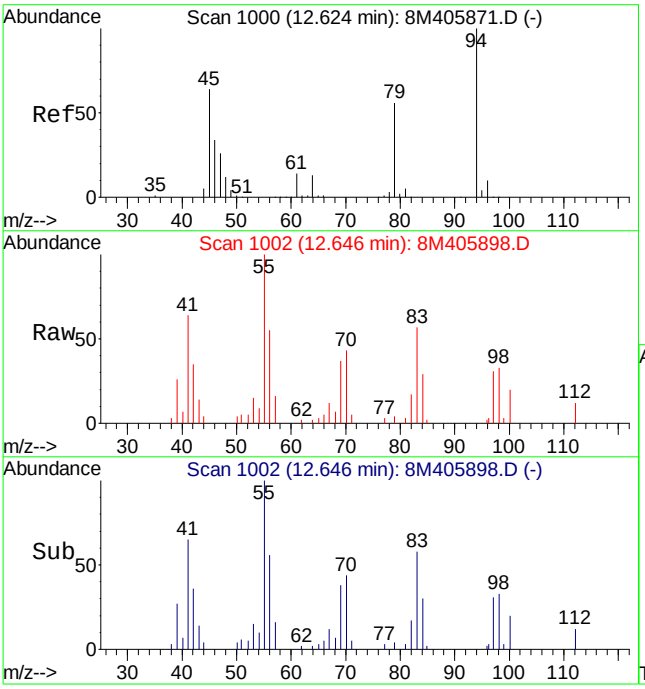


#54
4-Methyl-2-Pentanone
Concen: 1.01 ug/L
RT: 12.07 min Scan# 946
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 58 Resp: 1305

Ion	Ratio	Lower	Upper
58	100		
85	208.0	21.8	51.0#
100	0.0	19.4	45.4#

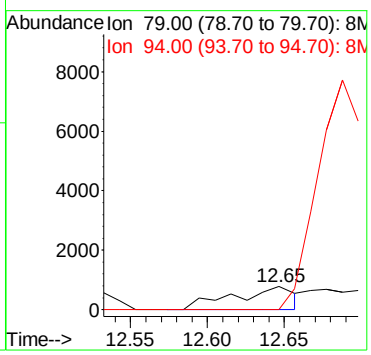


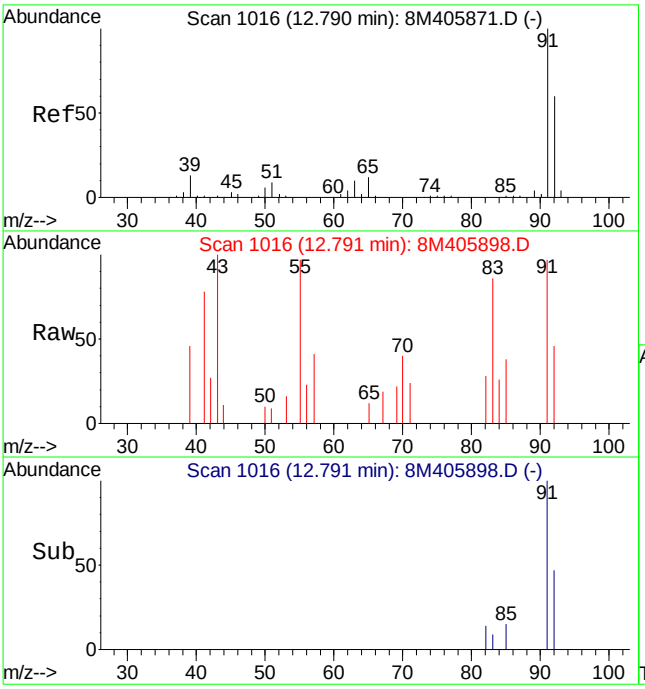


#56
Dimethyl Disulfide
Concen: 0.41 ug/L
RT: 12.65 min Scan# 1002
Delta R.T. 0.02 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 79 Resp: 2145

Ion	Ratio	Lower	Upper
79	100		
94	843.1	114.7	267.7#

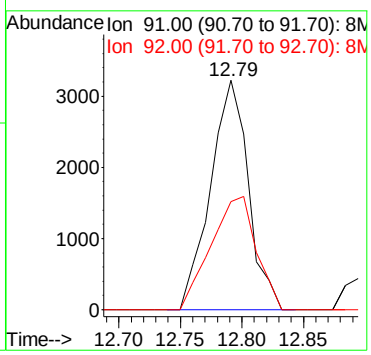


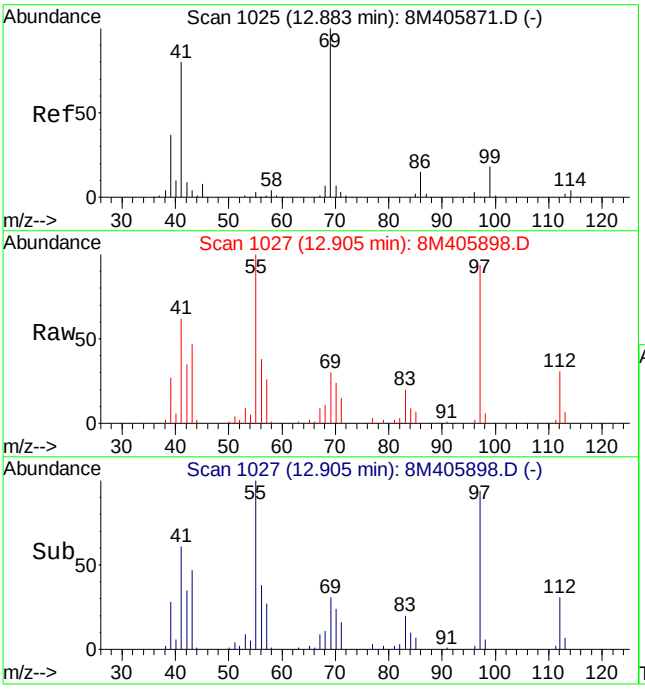


#59
Toluene
Concen: 0.25 ug/L
RT: 12.79 min Scan# 1016
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 91 Resp: 6905

Ion	Ratio	Lower	Upper
91	100		
92	59.2	35.7	83.3

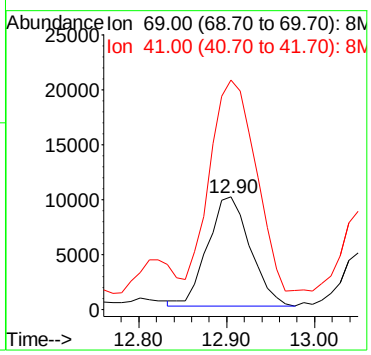


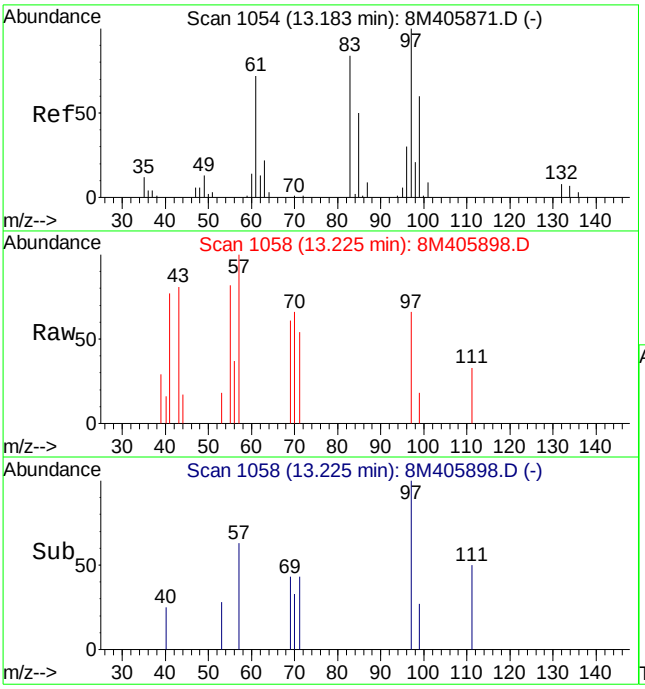


#60
Ethyl Methacrylate
Concen: 6.68 ug/L
RT: 12.90 min Scan# 1027
Delta R.T. 0.02 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 69 Resp: 33514

Ion	Ratio	Lower	Upper
69	100		
41	205.2	48.5	113.3#

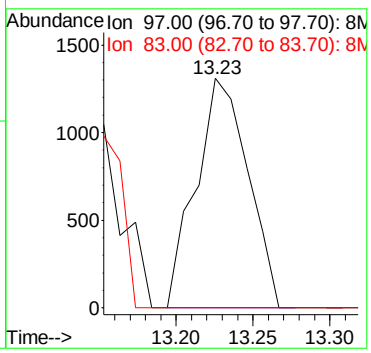


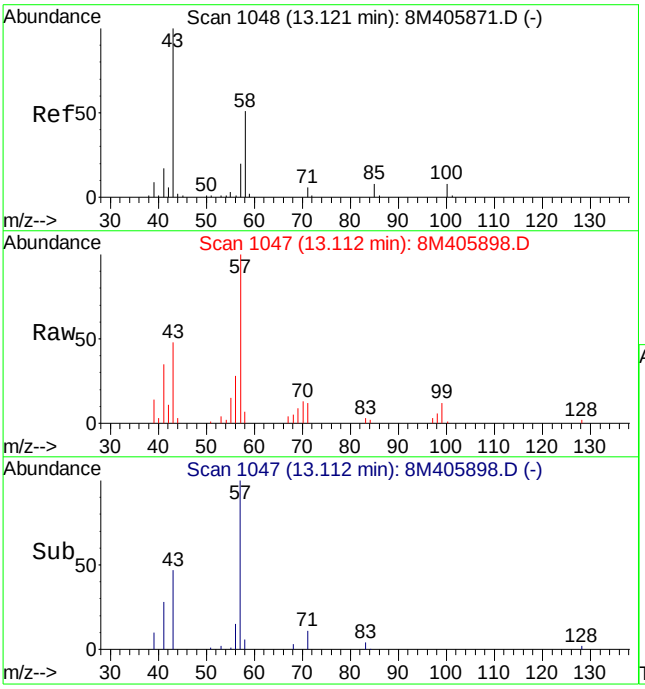


#63
1,1,2-Trichloroethane
Concen: 0.74 ug/L
RT: 13.23 min Scan# 1058
Delta R.T. 0.04 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 97 Resp: 3093

Ion	Ratio	Lower	Upper
97	100		
83	0.0	51.1	119.1#

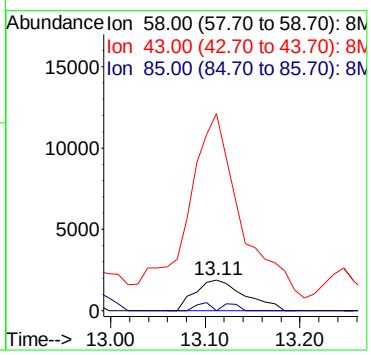


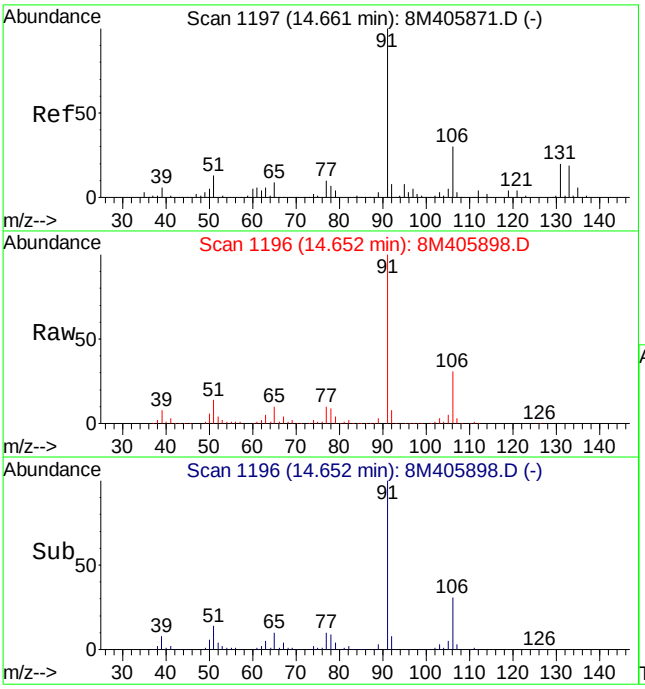


#64
2-Hexanone
Concen: 5.63 ug/L
RT: 13.11 min Scan# 1047
Delta R.T. -0.01 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 58 Resp: 6842

Ion	Ratio	Lower	Upper
58	100		
43	647.6	116.8	272.4#
85	7.3	0.0	0.0#

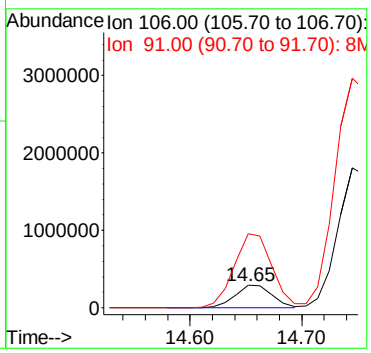


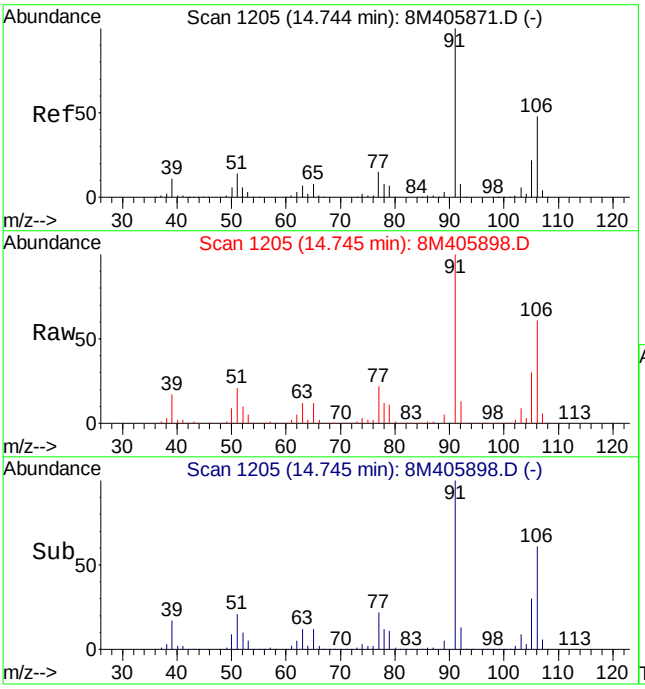


#72
Ethylbenzene
Concen: 66.07 ug/L
RT: 14.65 min Scan# 1196
Delta R.T. -0.01 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:106 Resp: 678149

Ion	Ratio	Lower	Upper
106	100		
91	337.7	199.7	466.1

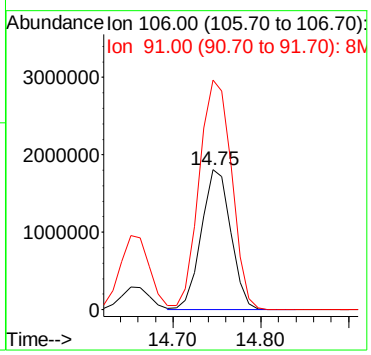


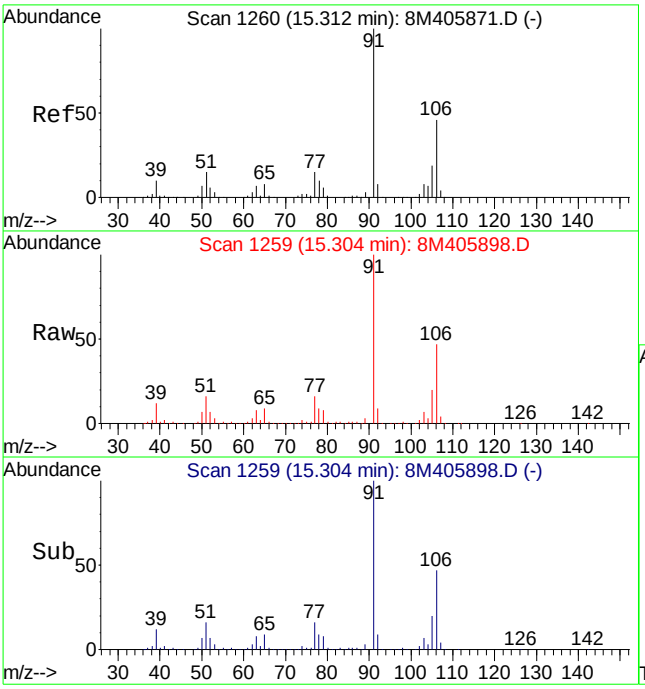


#73
m-,p-Xylene
Concen: 348.46 ug/L
RT: 14.75 min Scan# 1205
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:106 Resp: 4212203

Ion	Ratio	Lower	Upper
106	100		
91	179.7	125.1	291.9

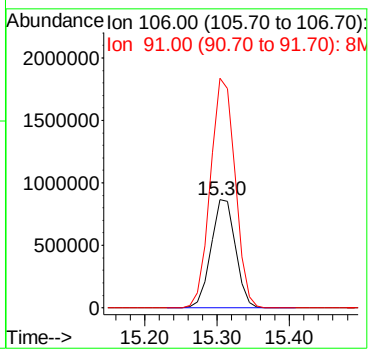


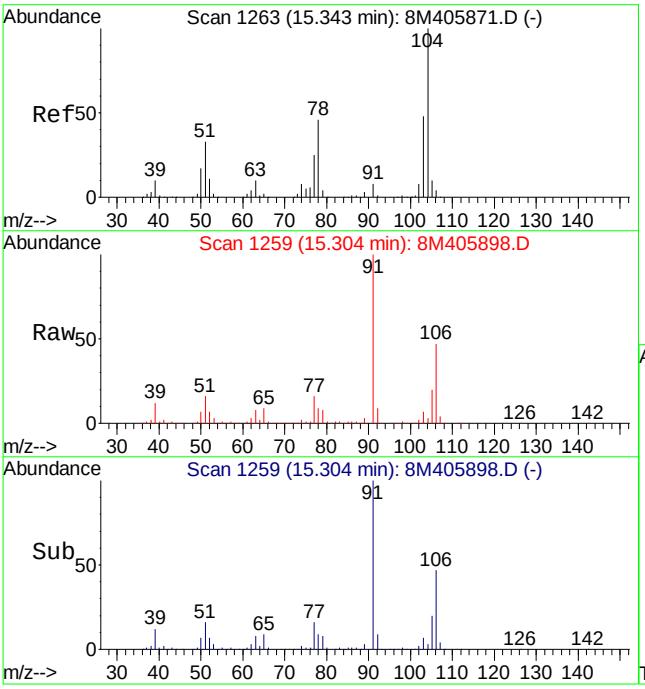


#74
o-Xylene
Concen: 173.81 ug/L
RT: 15.30 min Scan# 1259
Delta R.T. -0.01 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:106 Resp: 2037943

Ion	Ratio	Lower	Upper
106	100		
91	215.0	134.3	313.5

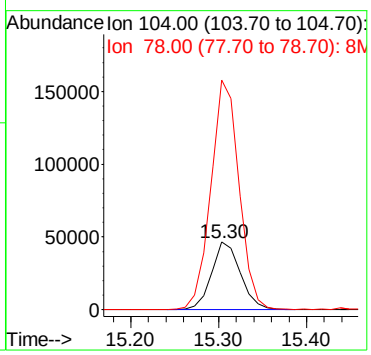


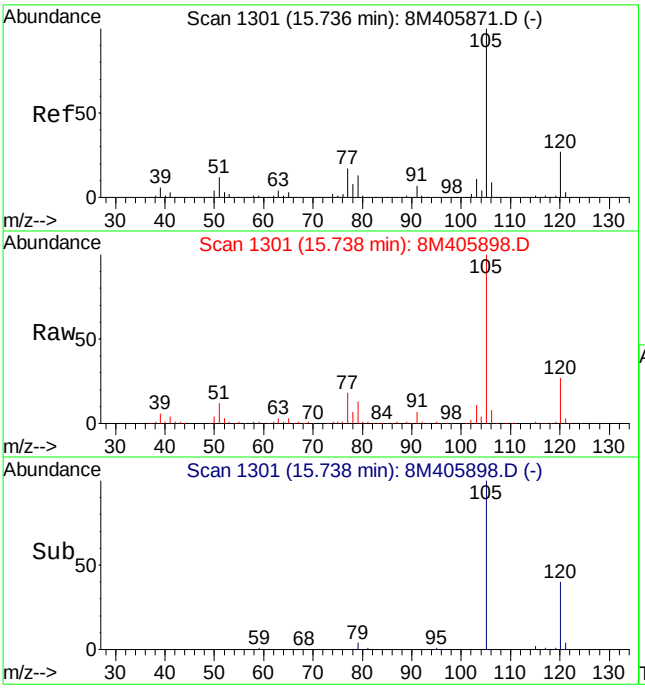


#75
Styrene
Concen: 5.65 ug/L
RT: 15.30 min Scan# 1259
Delta R.T. -0.04 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:104 Resp: 106528

Ion	Ratio	Lower	Upper
104	100		
78	330.6	32.9	76.7#

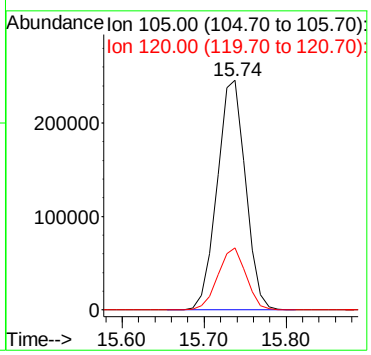


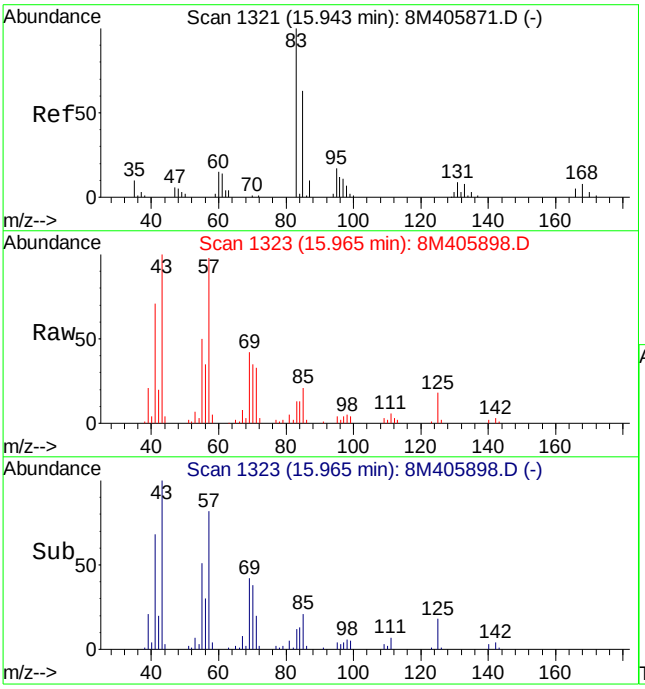


#77
Isopropylbenzene
Concen: 20.03 ug/L
RT: 15.74 min Scan# 1301
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:105 Resp: 589268

Ion	Ratio	Lower	Upper
105	100		
120	26.5	16.0	37.2

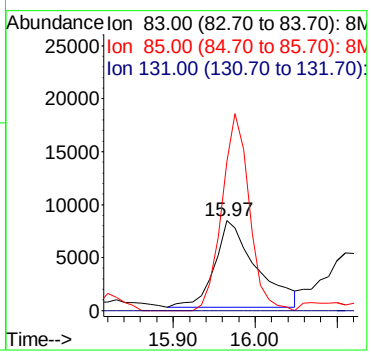


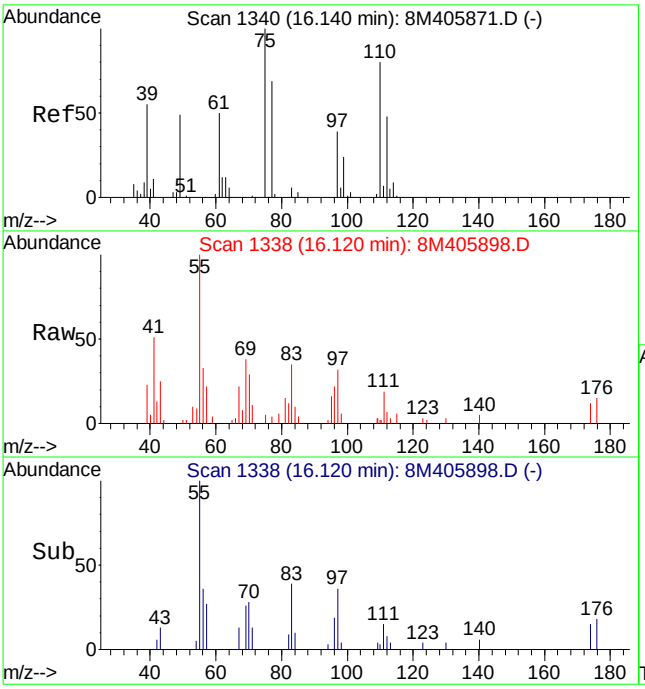


#79
1,1,2,2-Tetrachloroethane
Concen: 5.82 ug/L
RT: 15.97 min Scan# 1323
Delta R.T. 0.02 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 83 Resp: 28699

Ion	Ratio	Lower	Upper
83	100		
85	149.9	38.3	89.3#
131	0.0	5.8	13.4#

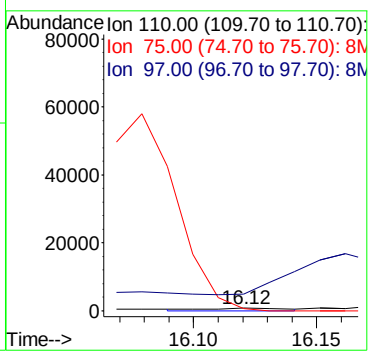


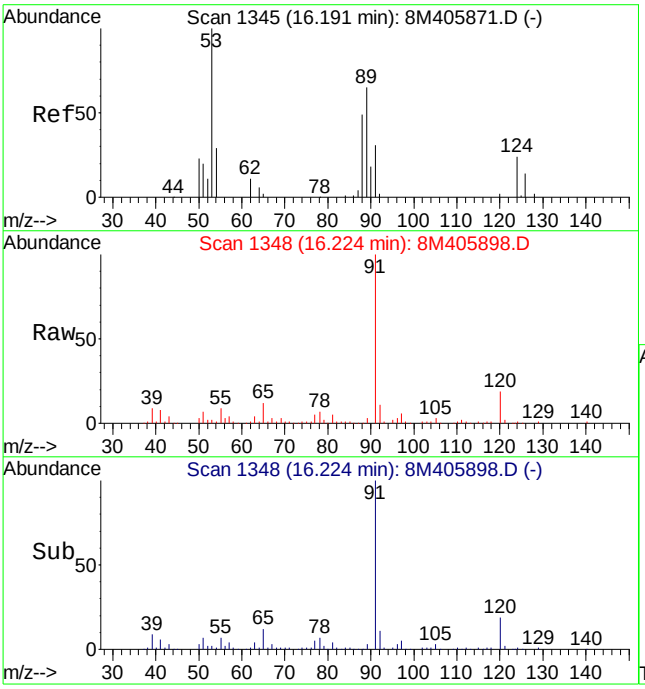


#81
1,2,3-Trichloropropane
Concen: 1.18 ug/L
RT: 16.12 min Scan# 1338
Delta R.T. -0.02 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:110 Resp: 1665

Ion	Ratio	Lower	Upper
110	100		
75	0.0	168.8	393.8#
97	0.0	31.0	72.2#

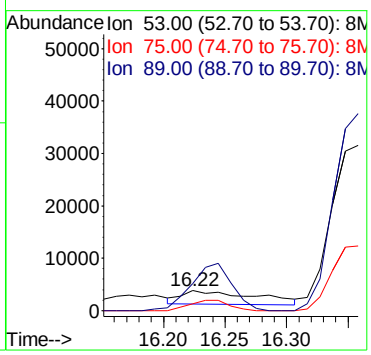


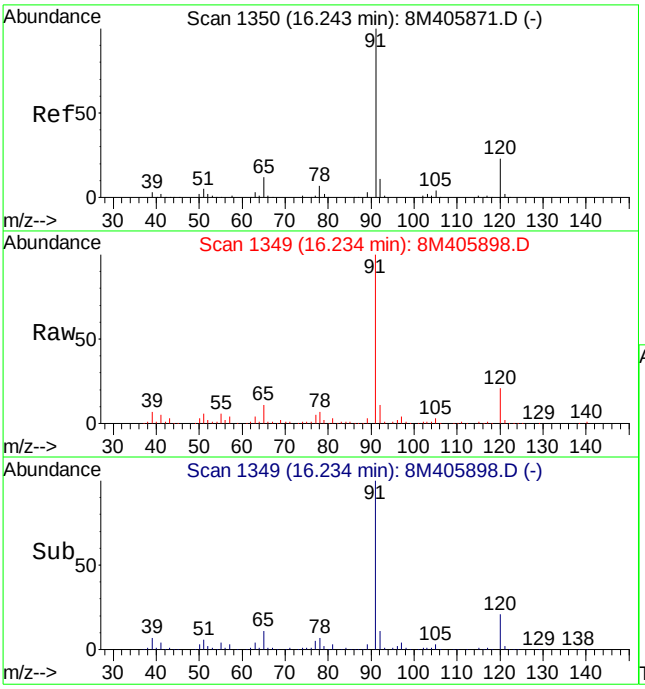


#82
trans-1,4-Dichloro-2-Butene
Concen: 6.41 ug/L
RT: 16.22 min Scan# 1348
Delta R.T. 0.03 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 53 Resp: 10620

Ion	Ratio	Lower	Upper
53	100		
75	40.8	58.5	136.5#
89	195.5	33.5	78.1#

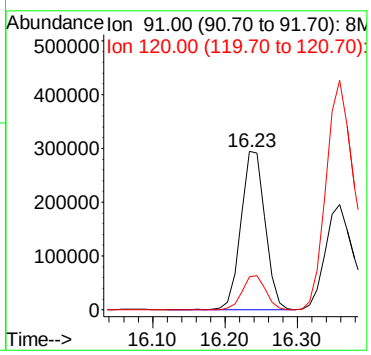


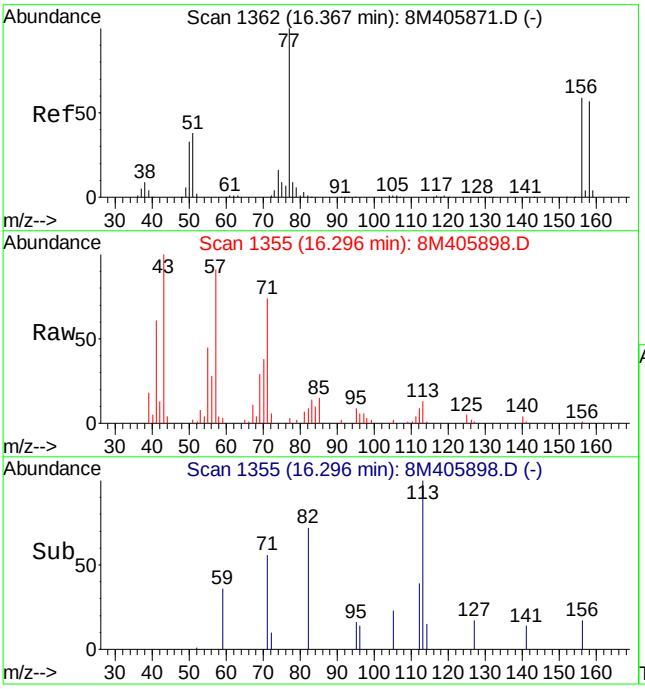


#83
n-Propylbenzene
Concen: 17.28 ug/L
RT: 16.23 min Scan# 1349
Delta R.T. -0.01 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 91 Resp: 686430

Ion	Ratio	Lower	Upper
91	100		
120	20.9	13.1	30.5

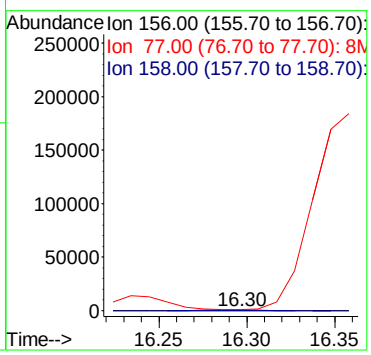


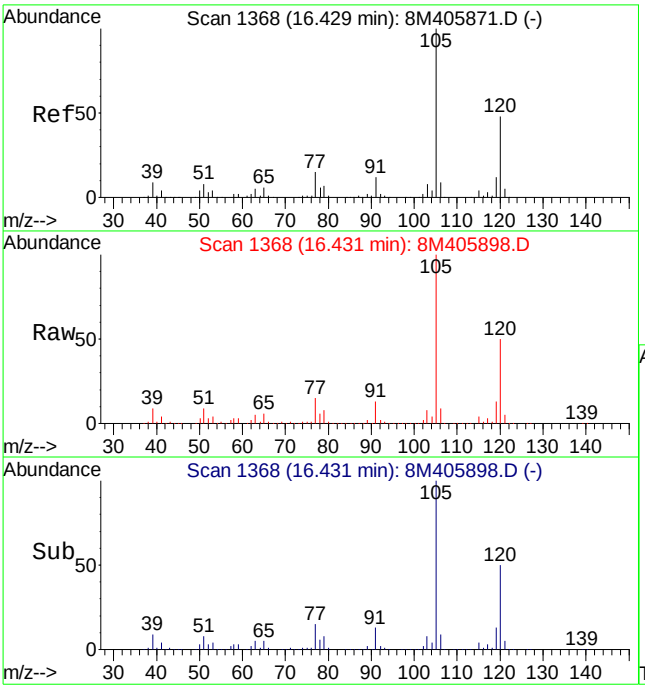


#84
Bromobenzene
Concen: 0.13 ug/L
RT: 16.30 min Scan# 1355
Delta R.T. -0.07 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:156 Resp: 1054

Ion	Ratio	Lower	Upper
156	100		
77	48749.8	100.2	233.8#
158	0.0	58.1	135.7#

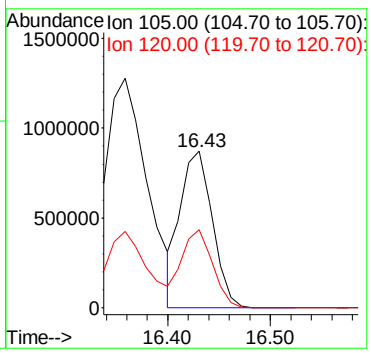


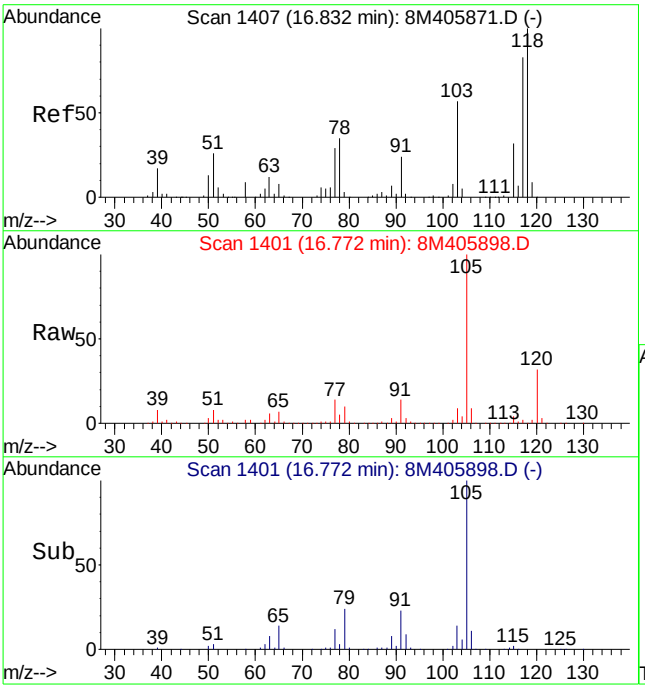


#85
1,3,5-Trimethylbenzene
Concen: 68.29 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:105 Resp: 1892170

Ion	Ratio	Lower	Upper
105	100		
120	48.5	28.8	67.2

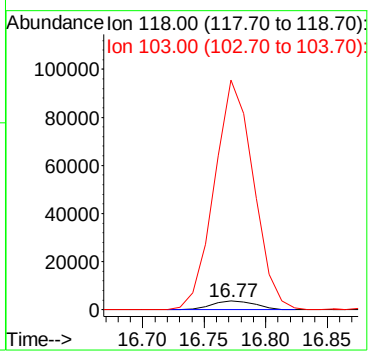


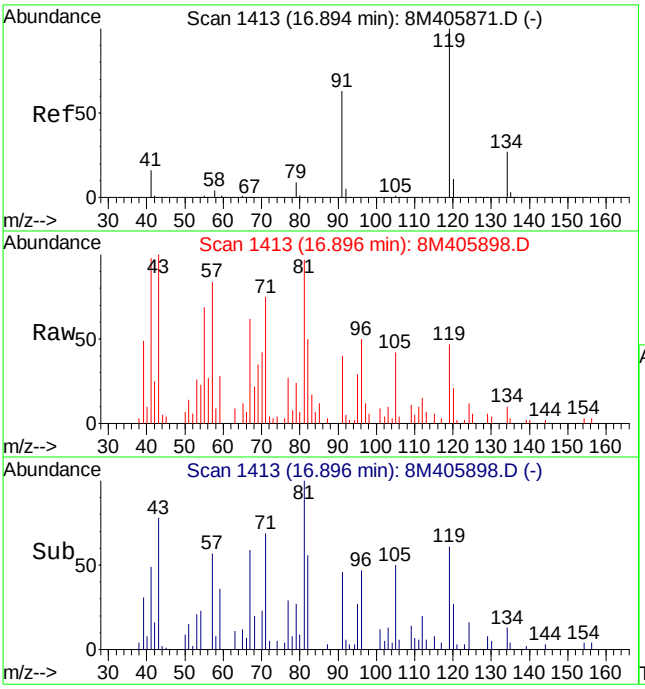


#88
a-Methylstyrene
Concen: 0.60 ug/L
RT: 16.77 min Scan# 1401
Delta R.T. -0.06 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:118 Resp: 8770

Ion	Ratio	Lower	Upper
118	100		
103	2419.5	35.9	83.7#

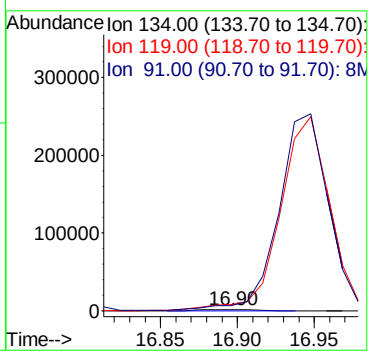


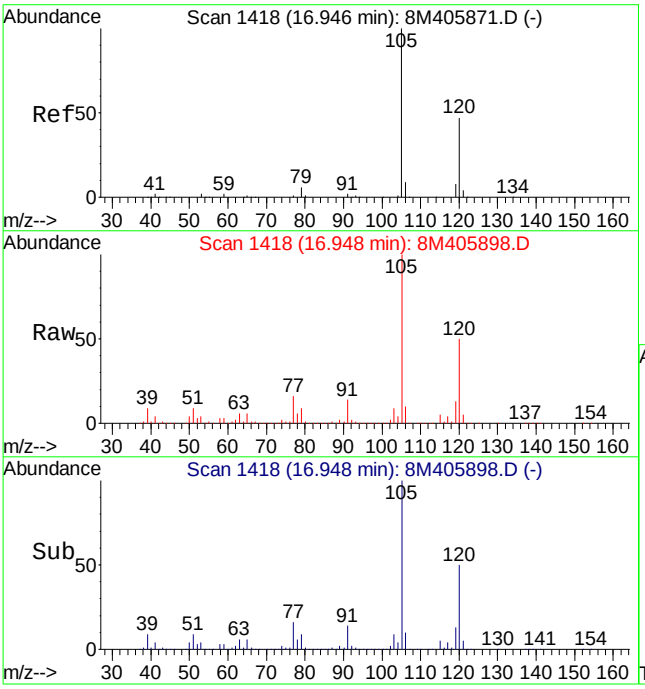


#89
tert-Butylbenzene
Concen: 0.67 ug/L
RT: 16.90 min Scan# 1413
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:134 Resp: 3769

Ion	Ratio	Lower	Upper
134	100		
119	14703.1	293.9	685.7#
91	15018.9	214.9	501.3#

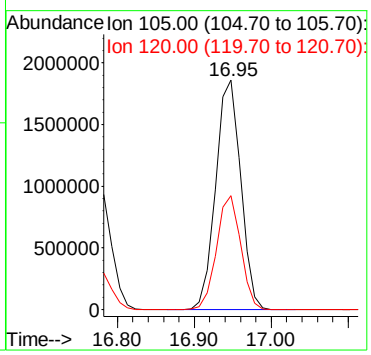


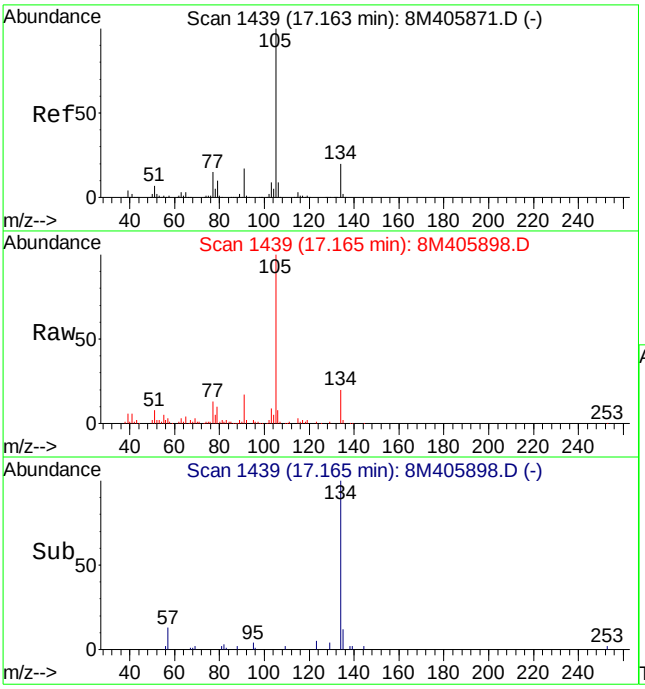


#90
1,2,4-Trimethylbenzene
Concen: 148.85 ug/L
RT: 16.95 min Scan# 1418
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:105 Resp: 4204431

Ion	Ratio	Lower	Upper
105	100		
120	48.0	32.3	75.5

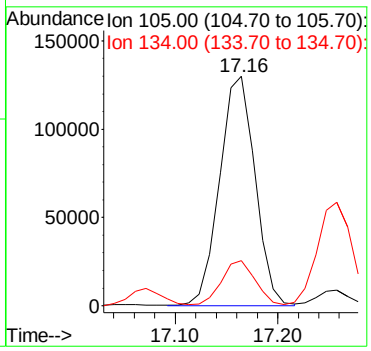


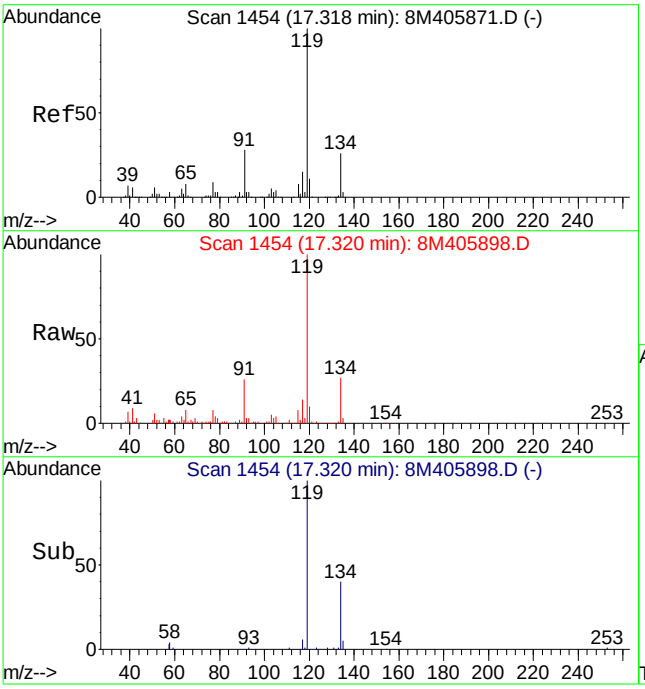


#91
sec-Butylbenzene
Concen: 9.47 ug/L
RT: 17.16 min Scan# 1439
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:105 Resp: 312826

Ion	Ratio	Lower	Upper
105	100		
134	18.9	11.8	27.4

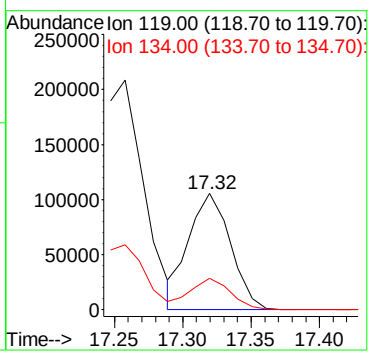


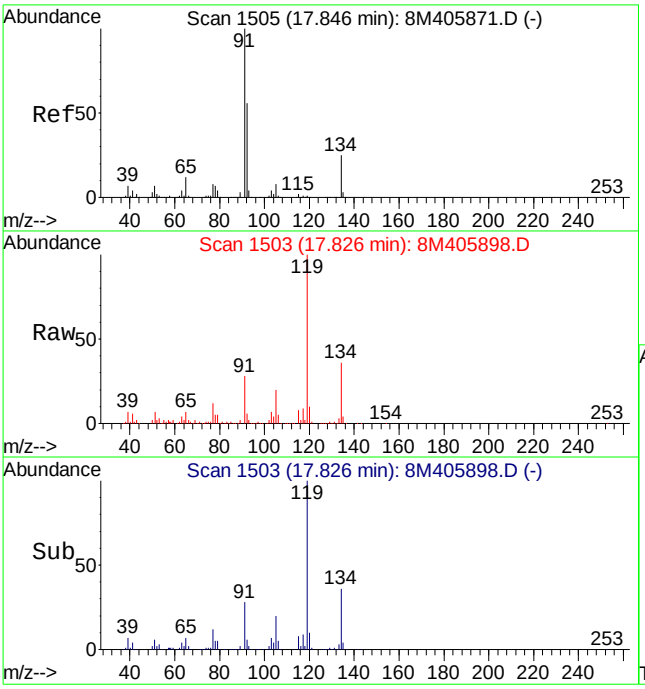


#92
p-Isopropyltoluene
Concen: 7.84 ug/L
RT: 17.32 min Scan# 1454
Delta R.T. 0.00 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:119 Resp: 225036

Ion	Ratio	Lower	Upper
119	100		
134	26.2	15.8	36.8

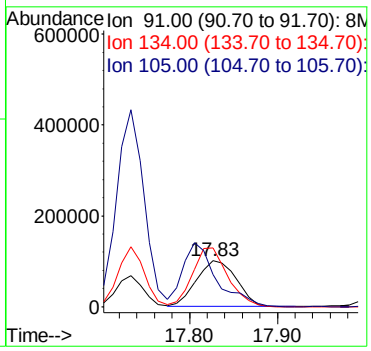


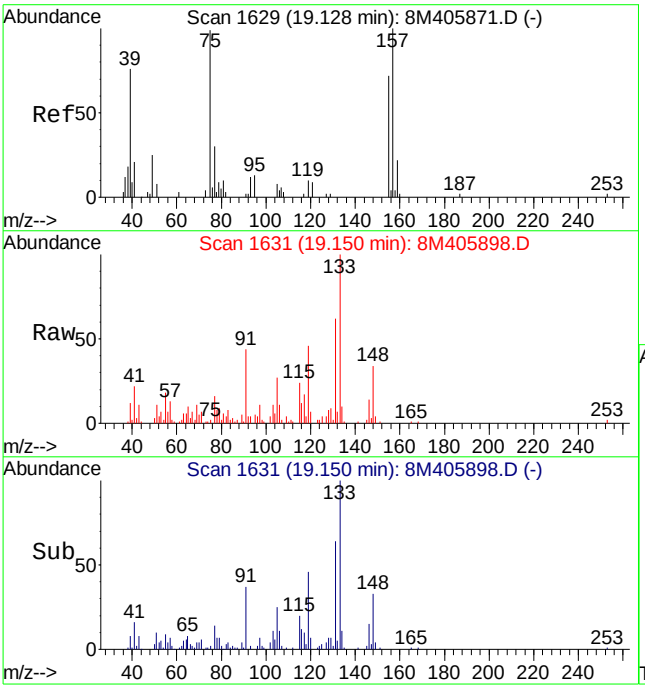


#95
n-Butylbenzene
Concen: 11.34 ug/L
RT: 17.83 min Scan# 1503
Delta R.T. -0.02 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 91 Resp: 319032

Ion	Ratio	Lower	Upper
91	100		
134	113.9	14.4	33.6#
105	118.0	5.0	11.8#

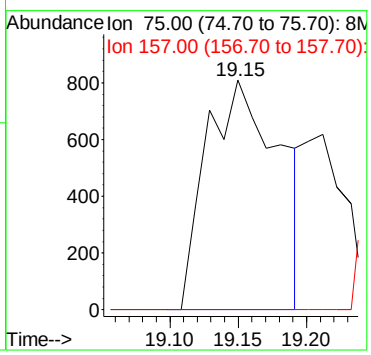


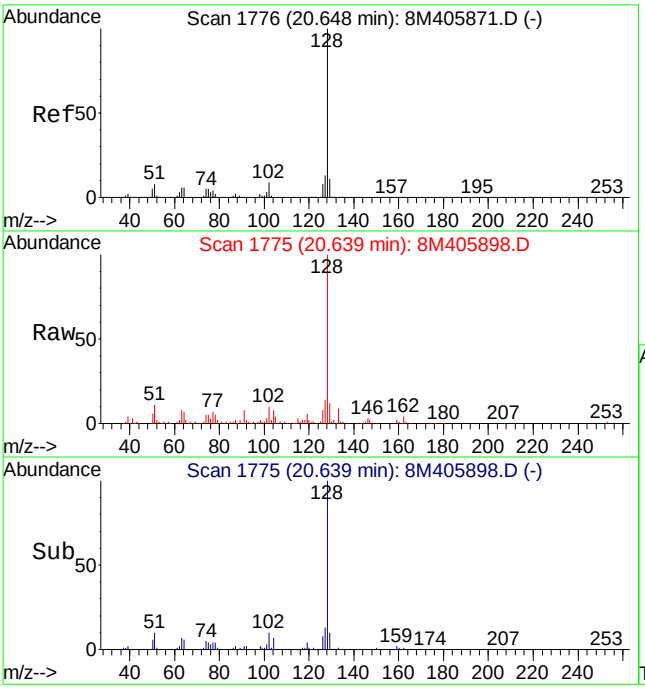


#97
1,2-Dibromo-3-Chloropropane
Concen: 3.47 ug/L
RT: 19.15 min Scan# 1631
Delta R.T. 0.02 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion: 75 Resp: 3028

Ion	Ratio	Lower	Upper
75	100		
157	0.0	61.0	142.4#

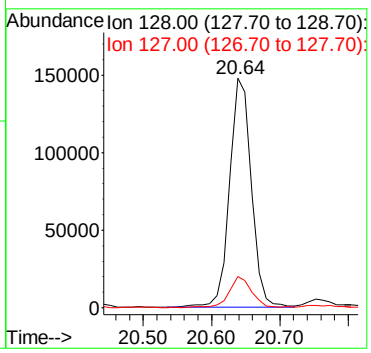




#100
Naphthalene
Concen: 22.87 ug/L
RT: 20.64 min Scan# 1775
Delta R.T. -0.01 min
Lab File: 8M405898.D
Acq: 4 Jul 2015 00:15

Tgt Ion:128 Resp: 325403

Ion	Ratio	Lower	Upper
128	100		
127	14.8	8.0	18.6



2.1.1.4 Standards Data

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400358.D Vial: 2
Acq On : 2 Oct 2014 12:24 Operator: TMB
Sample : WG494714-02 5ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 12:32:40 2014 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

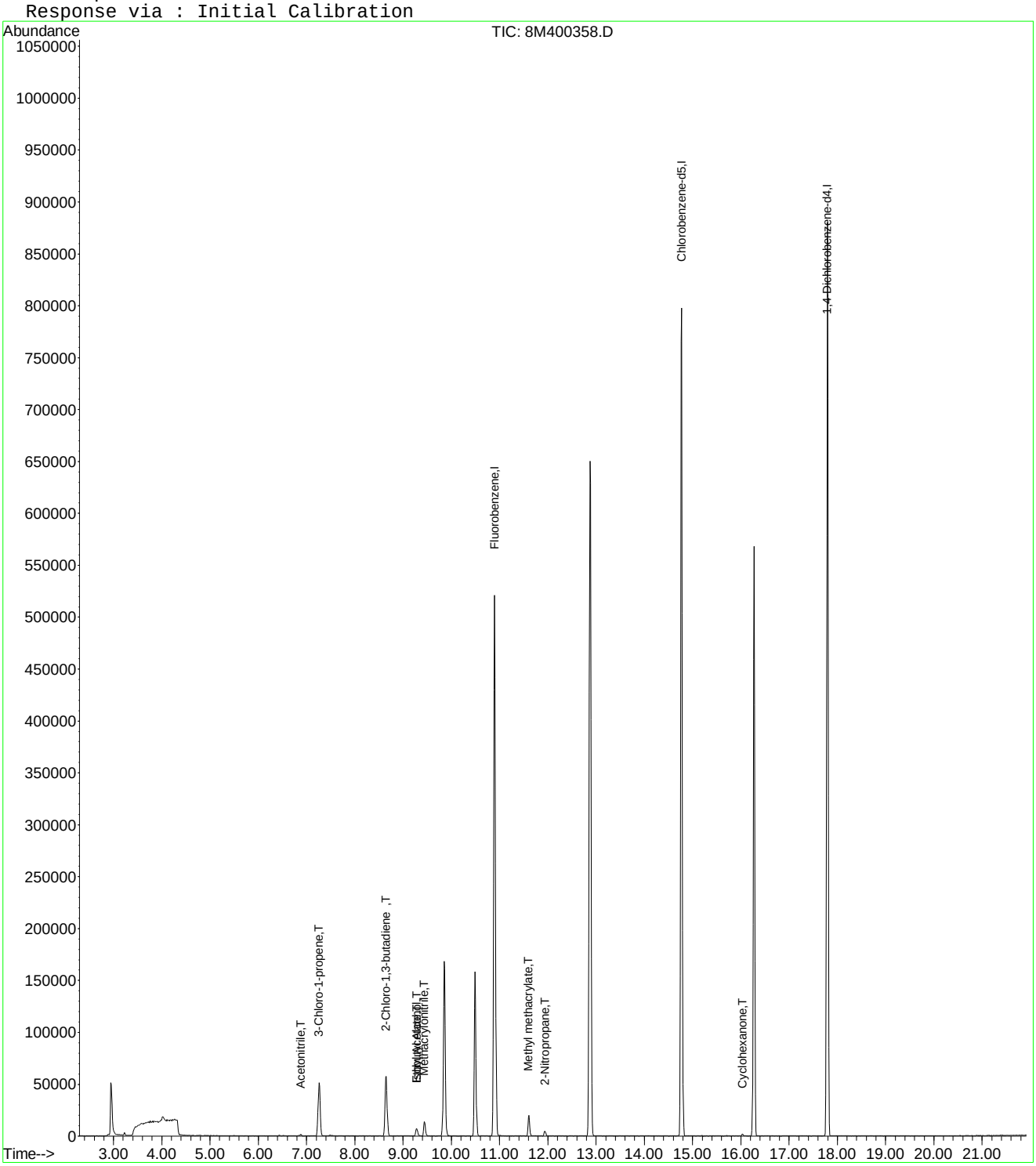
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.90	96	619208	25.00	ug/L		-0.03
11) Chlorobenzene-d5	14.77	117	544510	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	17.79	152	254129	25.00	ug/L		-0.04
Target Compounds							Qvalue
2) Acetonitrile	6.88	41	1884	4.8234	ug/L	#	23
3) 3-Chloro-1-propene	7.26	41	51461	4.9911	ug/L		88
4) 2-Chloro-1,3-butadiene	8.64	53	57885	4.7445	ug/L		89
5) Ethyl Acetate	9.28	43	12831	4.1474	ug/L		98
6) Methacrylonitrile	9.44	67	7738	4.2085	ug/L	#	61
7) Isobutyl Alcohol	9.28	43	12831	104.0280	ug/L	#	12
9) Methyl methacrylate	11.60	41	14247	4.0960	ug/L		83
10) 2-Nitropropane	11.94	43	3986	3.8294	ug/L		98
13) Cyclohexanone	16.03	55	1559	3.8882	ug/L	#	43

(#) = qualifier out of range (m) = manual integration
8M400358.D A9FOOWTR.M Fri Oct 03 12:32:40 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400358.D Vial: 2
Acq On : 2 Oct 2014 12:24 Operator: TMB
Sample : WG494714-02 5ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:32 2014 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400359.D Vial: 3
Acq On : 2 Oct 2014 12:53 Operator: TMB
Sample : WG494714-03 20ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 12:32:41 2014 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

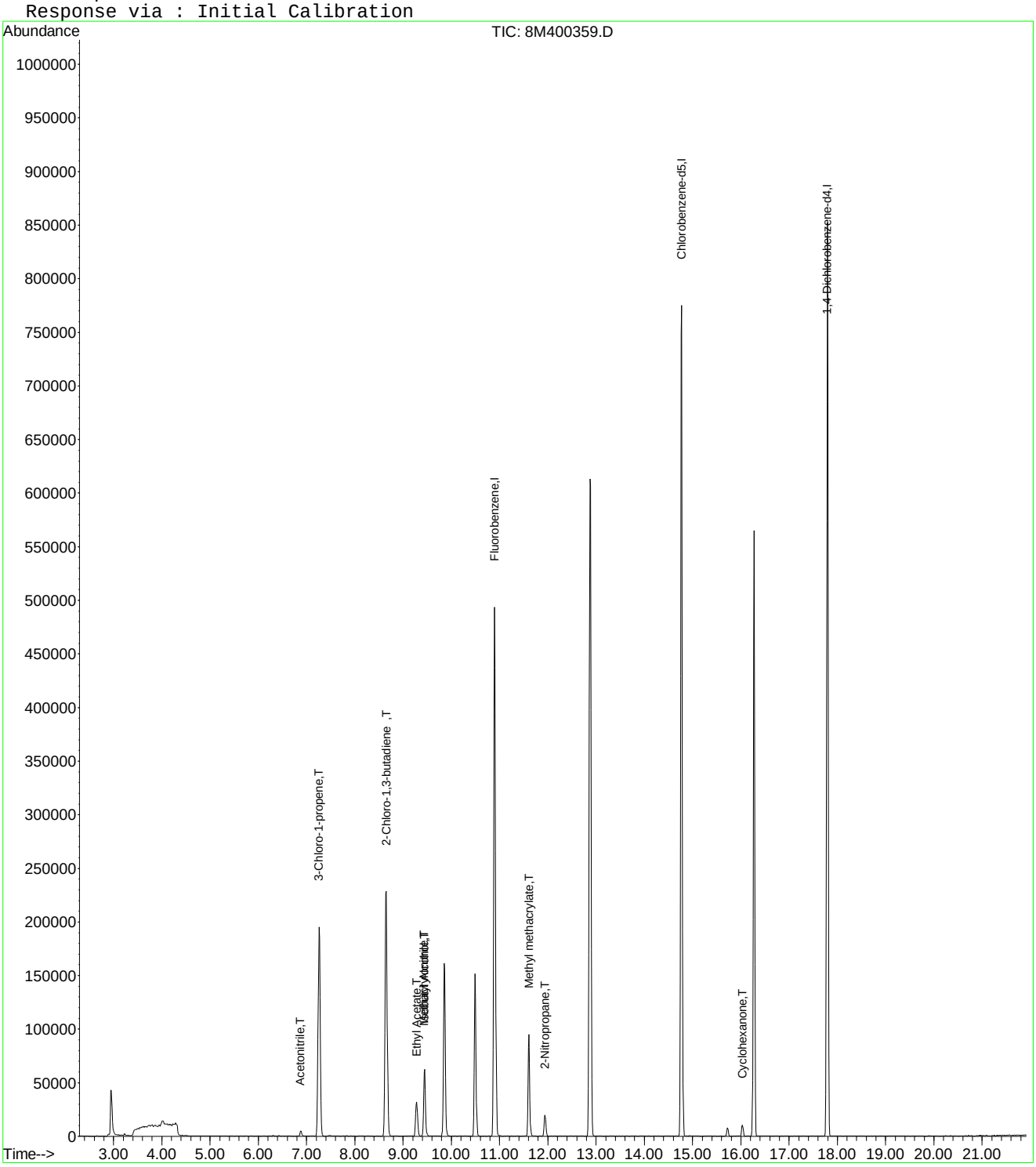
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.90	96	590707	25.00	ug/L	-0.03
11) Chlorobenzene-d5	14.77	117	530005	25.00	ug/L	-0.03
12) 1,4-Dichlorobenzene-d4	17.79	152	246254	25.00	ug/L	-0.04
Target Compounds						Qvalue
2) Acetonitrile	6.87	41	7263	19.4920	ug/L	97
3) 3-Chloro-1-propene	7.26	41	190581	19.3757	ug/L	90
4) 2-Chloro-1,3-butadiene	8.65	53	226534	19.4636	ug/L	90
5) Ethyl Acetate	9.28	43	54503	18.4670	ug/L	94
6) Methacrylonitrile	9.44	67	30898	17.6155	ug/L #	65
7) Isobutyl Alcohol	9.45	43	3143	26.7115	ug/L #	95
9) Methyl methacrylate	11.61	41	58234	17.5500	ug/L	72
10) 2-Nitropropane	11.94	43	16687	16.8050	ug/L	98
13) Cyclohexanone	16.03	55	7124	18.3357	ug/L	88

(#) = qualifier out of range (m) = manual integration
8M400359.D A9FOOWTR.M Fri Oct 03 12:32:41 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400359.D Vial: 3
Acq On : 2 Oct 2014 12:53 Operator: TMB
Sample : WG494714-03 20ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:32 2014 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400360.D Vial: 4
Acq On : 2 Oct 2014 13:22 Operator: TMB
Sample : WG494714-04 50ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 12:32:42 2014 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

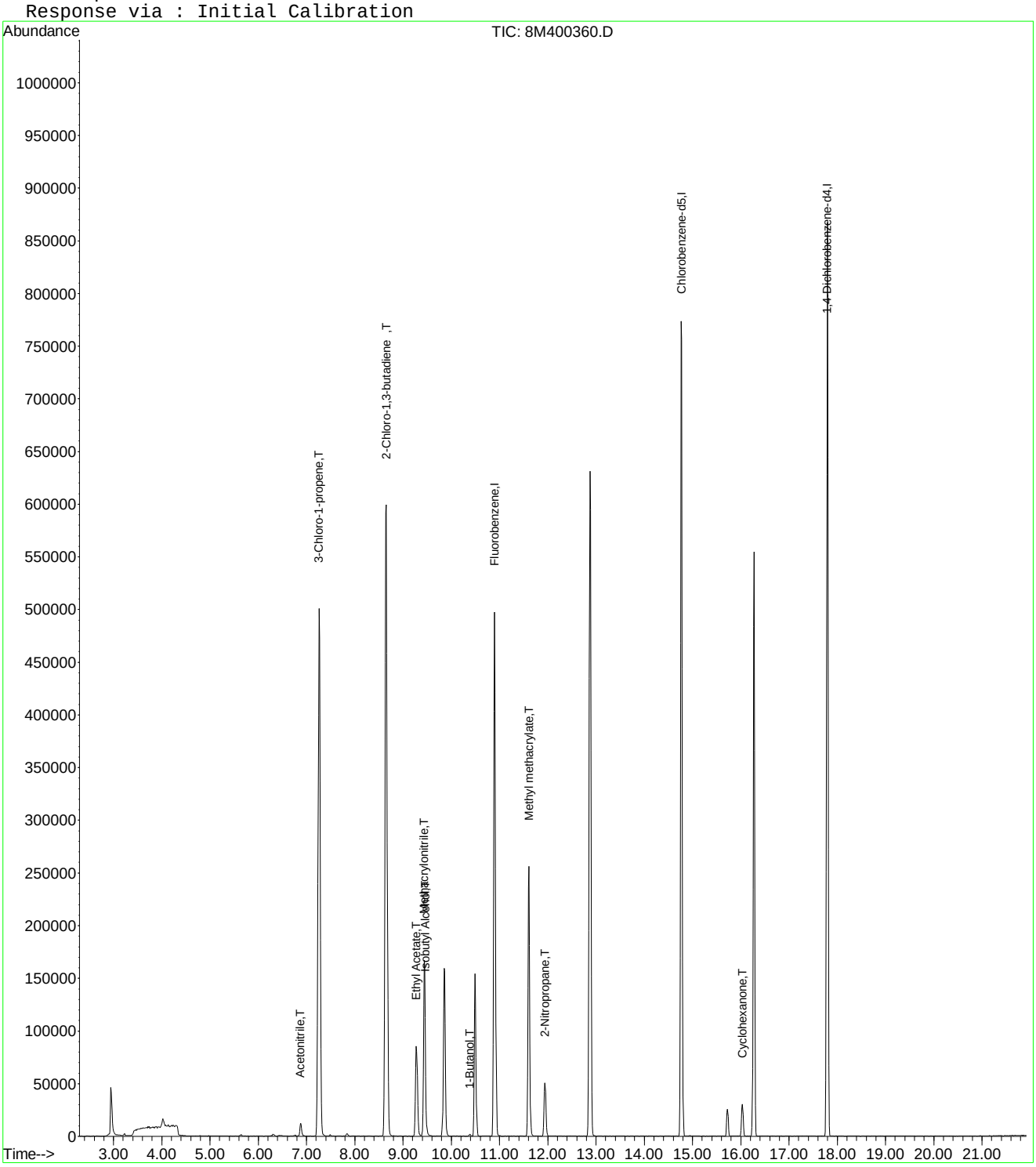
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.90	96	590667	25.00	ug/L		-0.03
11) Chlorobenzene-d5	14.77	117	524443	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	17.79	152	249595	25.00	ug/L		-0.04
Target Compounds							Qvalue
2) Acetonitrile	6.88	41	17698	47.5001	ug/L		100
3) 3-Chloro-1-propene	7.26	41	491365	49.9588	ug/L		90
4) 2-Chloro-1,3-butadiene	8.65	53	586258	50.3743	ug/L		90
5) Ethyl Acetate	9.27	43	145862	49.4250	ug/L		93
6) Methacrylonitrile	9.44	67	84924	48.4200	ug/L	#	62
7) Isobutyl Alcohol	9.46	43	9563	81.2789	ug/L	#	95
8) 1-Butanol	10.38	56	1895	48.4971	ug/L		87
9) Methyl methacrylate	11.61	41	161451	48.6599	ug/L		75
10) 2-Nitropropane	11.94	43	45766	46.0929	ug/L		98
13) Cyclohexanone	16.04	55	19698	50.0200	ug/L		89

(#) = qualifier out of range (m) = manual integration
8M400360.D A9FOOWTR.M Fri Oct 03 12:32:42 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400360.D Vial: 4
Acq On : 2 Oct 2014 13:22 Operator: TMB
Sample : WG494714-04 50ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:32 2014 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400361.D Vial: 5
Acq On : 2 Oct 2014 13:51 Operator: TMB
Sample : WG494714-05 100ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 12:32:43 2014 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

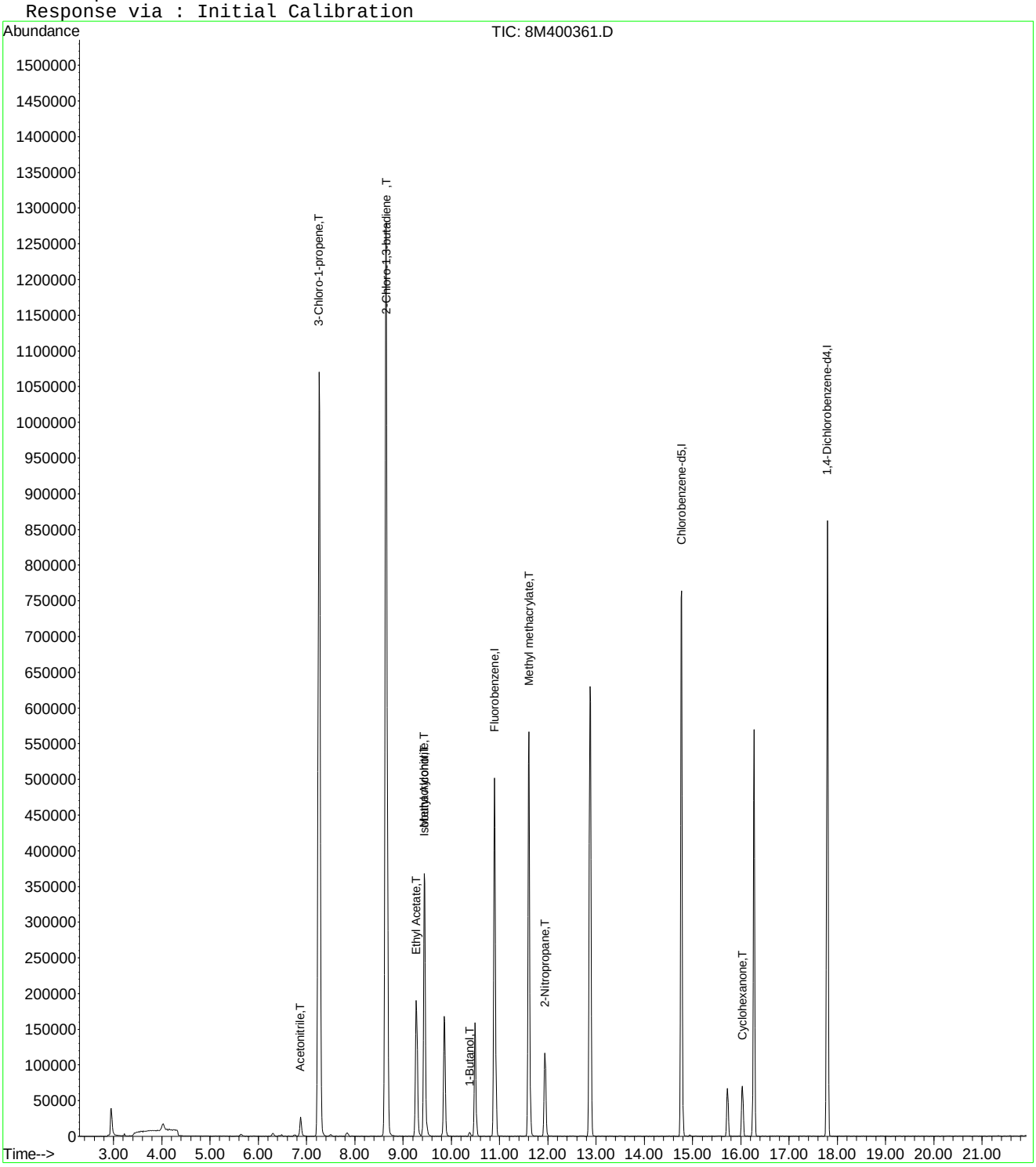
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.90	96	595542	25.00	ug/L		-0.03
11) Chlorobenzene-d5	14.77	117	525736	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	17.79	152	251203	25.00	ug/L		-0.04
Target Compounds							Qvalue
2) Acetonitrile	6.87	41	38265	101.8596	ug/L		98
3) 3-Chloro-1-propene	7.26	41	1042545	105.1315	ug/L		90
4) 2-Chloro-1,3-butadiene	8.65	53	1239135	105.6013	ug/L		88
5) Ethyl Acetate	9.27	43	315872	106.1564	ug/L		93
6) Methacrylonitrile	9.44	67	182857	103.4038	ug/L	#	63
7) Isobutyl Alcohol	9.45	43	23247	195.9661	ug/L	#	92
8) 1-Butanol	10.38	56	5482	96.3312	ug/L		88
9) Methyl methacrylate	11.61	41	351287	105.0082	ug/L		73
10) 2-Nitropropane	11.94	43	103249	103.1352	ug/L		99
13) Cyclohexanone	16.04	55	43523	109.8125	ug/L		88

(#) = qualifier out of range (m) = manual integration
8M400361.D A9FOOWTR.M Fri Oct 03 12:32:43 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400361.D Vial: 5
Acq On : 2 Oct 2014 13:51 Operator: TMB
Sample : WG494714-05 100ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:32 2014 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400362.D Vial: 6
Acq On : 2 Oct 2014 14:19 Operator: TMB
Sample : WG494714-06 200ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 12:32:43 2014 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

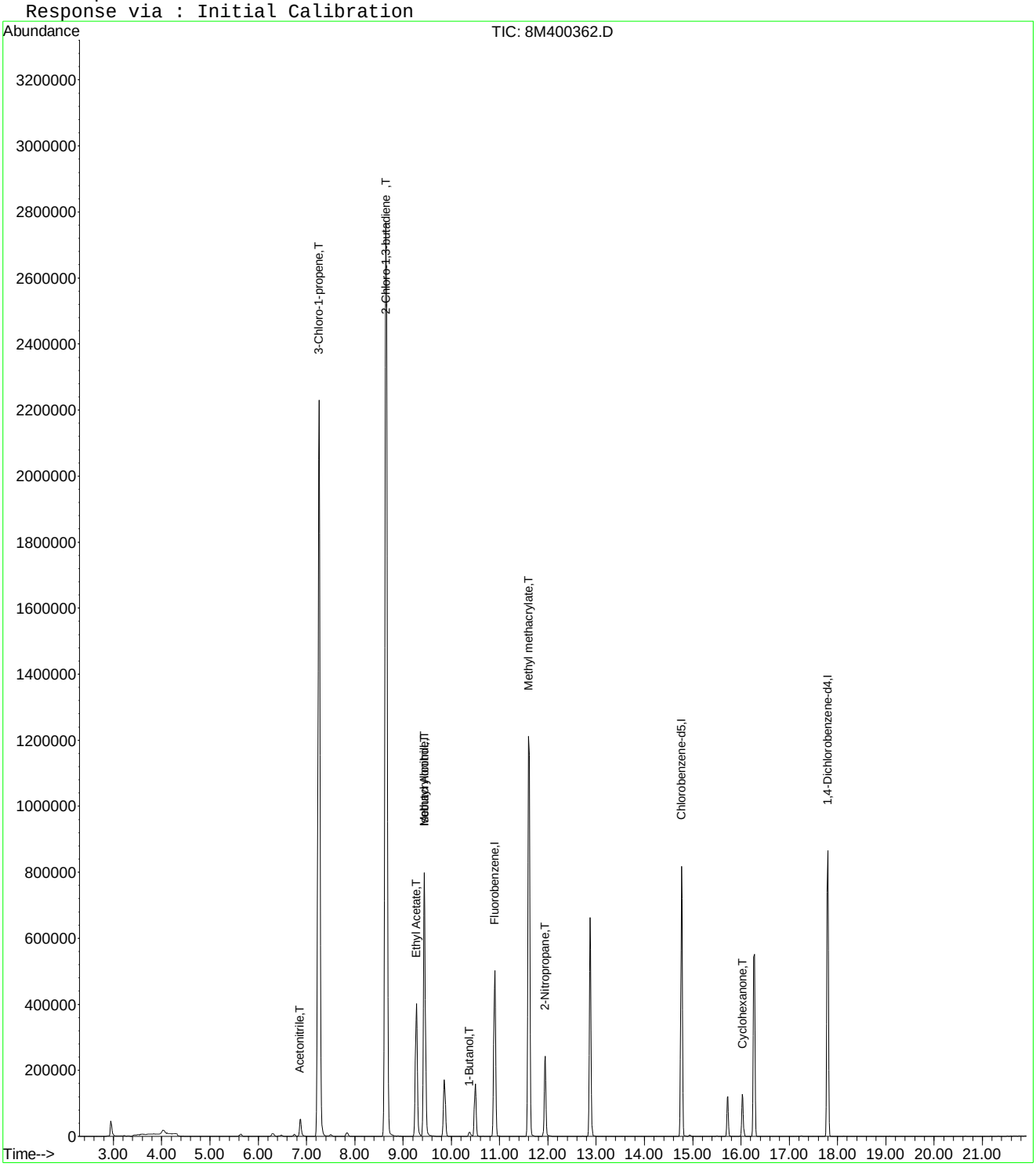
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.90	96	605985	25.00	ug/L		-0.02
11) Chlorobenzene-d5	14.77	117	543073	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	17.80	152	256990	25.00	ug/L		-0.03
Target Compounds							Qvalue
2) Acetonitrile	6.87	41	81322	212.7447	ug/L		93
3) 3-Chloro-1-propene	7.26	41	2105378	208.6501	ug/L		89
4) 2-Chloro-1,3-butadiene	8.65	53	2530154	211.9083	ug/L		84
5) Ethyl Acetate	9.28	43	654842	216.2828	ug/L		92
6) Methacrylonitrile	9.44	67	386897	215.0159	ug/L	#	62
7) Isobutyl Alcohol	9.44	43	51188	424.0654	ug/L		97
8) 1-Butanol	10.37	56	13189	196.5131	ug/L		88
9) Methyl methacrylate	11.60	41	747593	219.6225	ug/L		71
10) 2-Nitropropane	11.94	43	227212	223.0503	ug/L		99
13) Cyclohexanone	16.03	55	76140	187.7821	ug/L		85

(#) = qualifier out of range (m) = manual integration
8M400362.D A9FOOWTR.M Fri Oct 03 12:32:44 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400362.D Vial: 6
Acq On : 2 Oct 2014 14:19 Operator: TMB
Sample : WG494714-06 200ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:32 2014 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration



8M400362.D A9FOOWTR.M Fri Oct 03 12:32:44 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400363.D Vial: 7
Acq On : 2 Oct 2014 14:48 Operator: TMB
Sample : WG494714-07 300ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 12:32:45 2014 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

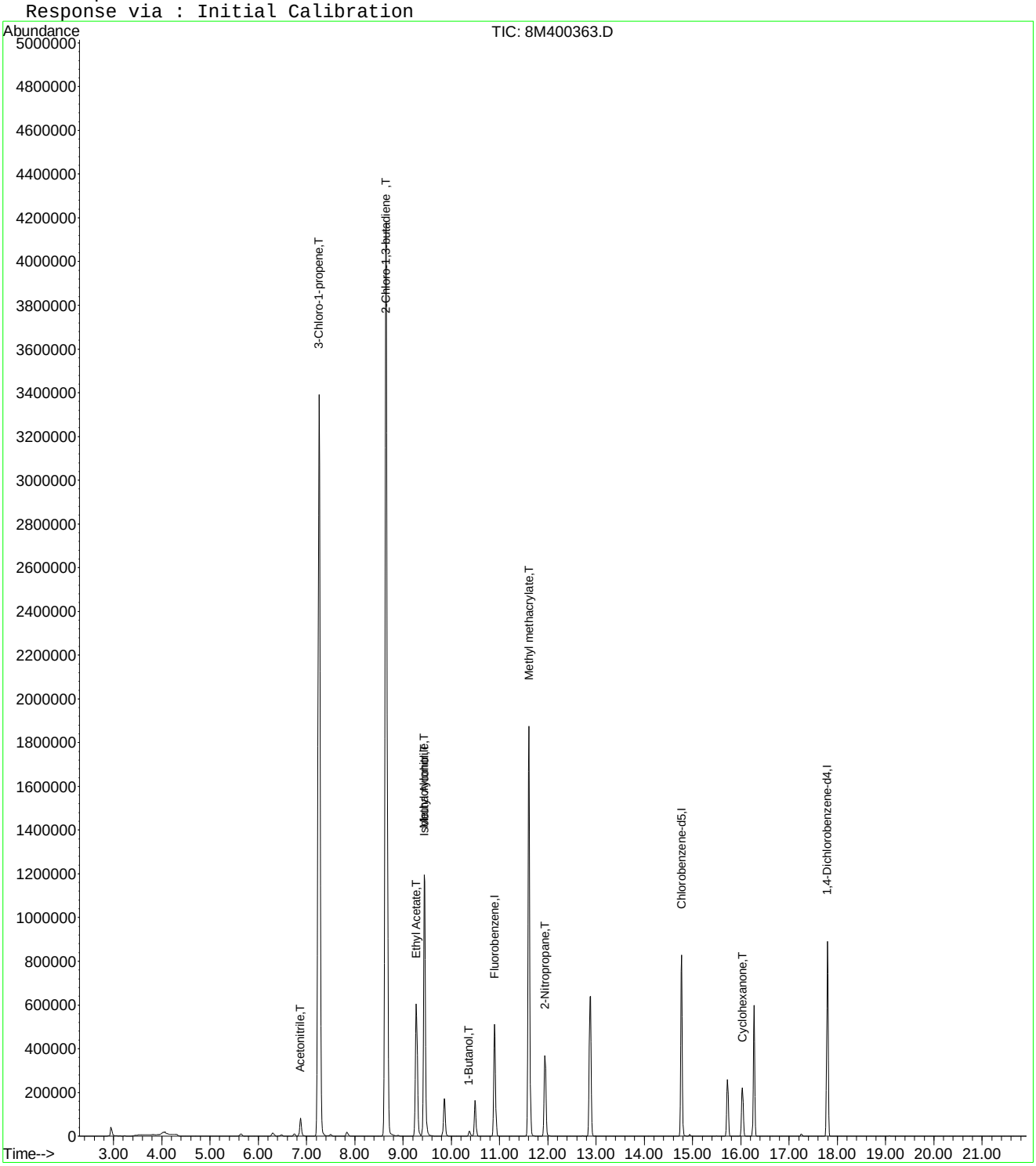
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.90	96	617316	25.00	ug/L		-0.03
11) Chlorobenzene-d5	14.77	117	555877	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	17.79	152	259867	25.00	ug/L		-0.04
Target Compounds							Qvalue
2) Acetonitrile	6.87	41	120718	310.0110	ug/L		94
3) 3-Chloro-1-propene	7.26	41	3133181	304.8093	ug/L		86
4) 2-Chloro-1,3-butadiene	8.64	53	3764580	309.5080	ug/L		79
5) Ethyl Acetate	9.27	43	984728	319.2685	ug/L		92
6) Methacrylonitrile	9.44	67	589378	321.5315	ug/L	#	62
7) Isobutyl Alcohol	9.45	43	76604	622.9747	ug/L		98
8) 1-Butanol	10.37	56	23186	322.5015	ug/L		89
9) Methyl methacrylate	11.61	41	1120843	323.2293	ug/L		70
10) 2-Nitropropane	11.94	43	340074	327.7172	ug/L		99
13) Cyclohexanone	16.03	55	133635	325.9318	ug/L		85

(#) = qualifier out of range (m) = manual integration
8M400363.D A9FOOWTR.M Fri Oct 03 12:32:45 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400363.D Vial: 7
Acq On : 2 Oct 2014 14:48 Operator: TMB
Sample : WG494714-07 300ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:32 2014 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400364.D Vial: 8
Acq On : 2 Oct 2014 15:16 Operator: TMB
Sample : WG494714-08 400ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 12:32:46 2014 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

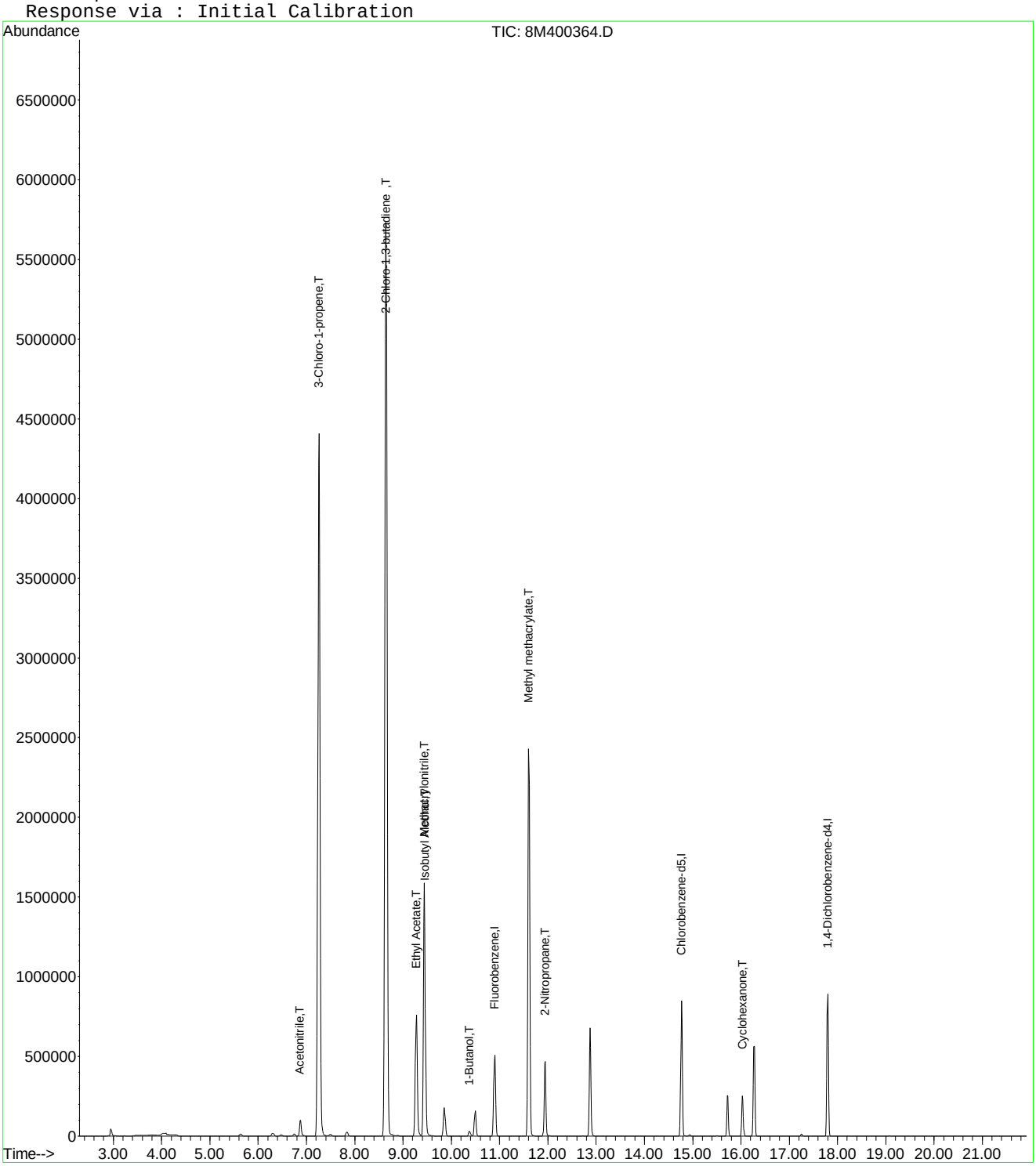
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.90	96	618926	25.00	ug/L		-0.02
11) Chlorobenzene-d5	14.77	117	559909	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	17.80	152	262346	25.00	ug/L		-0.03
Target Compounds							Qvalue
2) Acetonitrile	6.87	41	151708	388.5818	ug/L		95
3) 3-Chloro-1-propene	7.26	41	4028272	390.8682	ug/L		83
4) 2-Chloro-1,3-butadiene	8.65	53	4802050	393.7774	ug/L		74
5) Ethyl Acetate	9.28	43	1250397	404.3491	ug/L		91
6) Methacrylonitrile	9.44	67	762998	415.1660	ug/L	#	61
7) Isobutyl Alcohol	9.45	43	102436	830.8840	ug/L	#	97
8) 1-Butanol	10.37	56	28243	386.8957	ug/L		89
9) Methyl methacrylate	11.60	41	1436773	413.2595	ug/L		68
10) 2-Nitropropane	11.94	43	451706	434.1607	ug/L		98
13) Cyclohexanone	16.03	55	150327	363.1785	ug/L		84

(#) = qualifier out of range (m) = manual integration
8M400364.D A9FOOWTR.M Fri Oct 03 12:32:46 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400364.D Vial: 8
Acq On : 2 Oct 2014 15:16 Operator: TMB
Sample : WG494714-08 400ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:32 2014 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration



8M400364.D A9FOOWTR.M Fri Oct 03 12:32:47 2014 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400365.D Vial: 9
Acq On : 2 Oct 2014 15:45 Operator: TMB
Sample : WG494714-09 500ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 12:32:47 2014 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

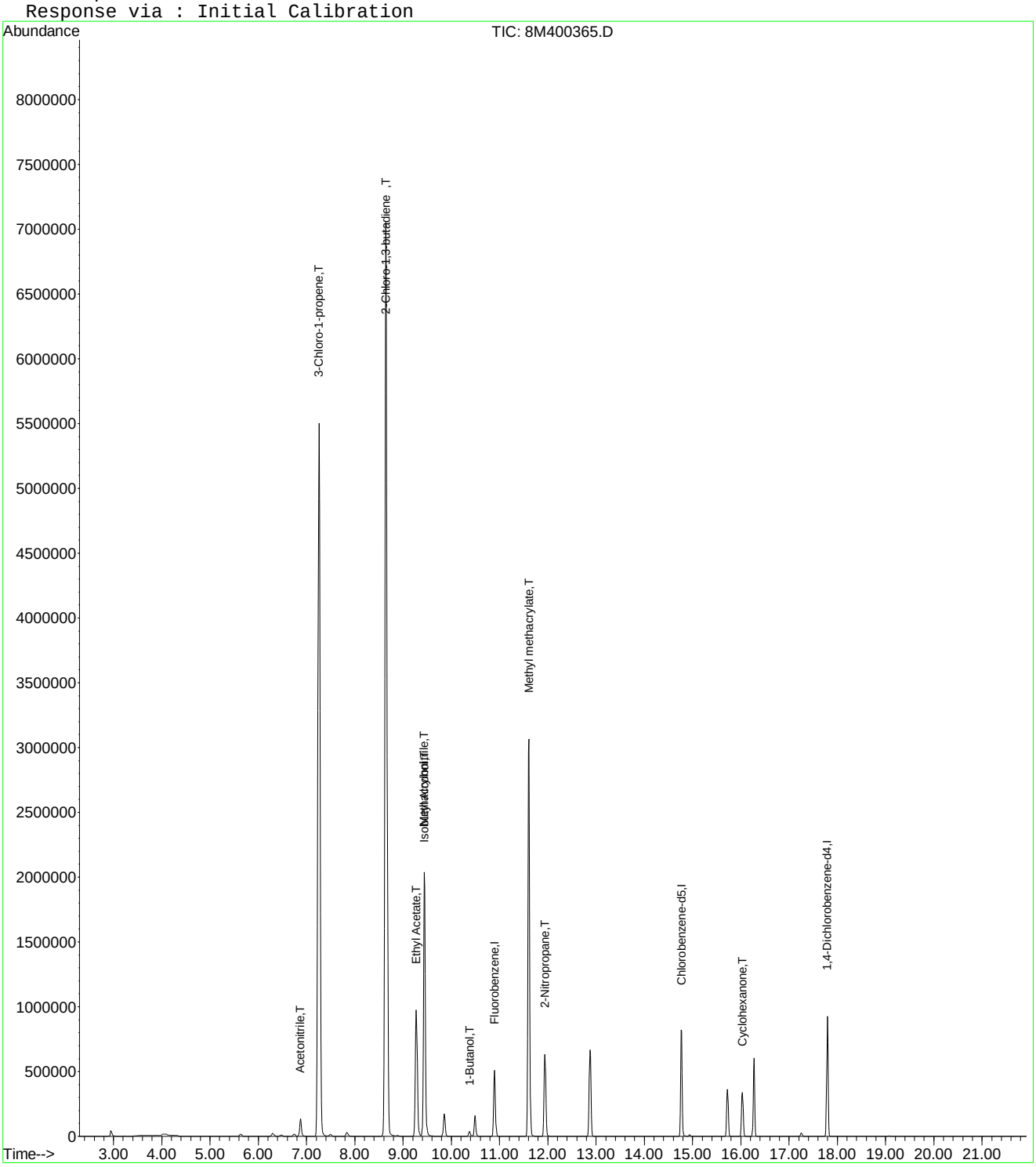
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.90	96	611679	25.00	ug/L	-0.03
11) Chlorobenzene-d5	14.77	117	574048	25.00	ug/L	-0.03
12) 1,4-Dichlorobenzene-d4	17.79	152	266141	25.00	ug/L	-0.04
Target Compounds						Qvalue
2) Acetonitrile	6.87	41	197468	511.7830	ug/L	95
3) 3-Chloro-1-propene	7.26	41	4817953	473.0307	ug/L	79
4) 2-Chloro-1,3-butadiene	8.64	53	5656851	469.3686	ug/L	68
5) Ethyl Acetate	9.27	43	1590123	520.3008	ug/L	90
6) Methacrylonitrile	9.44	67	990168	545.1581	ug/L #	61
7) Isobutyl Alcohol	9.45	43	130410	1070.3205	ug/L	98
8) 1-Butanol	10.38	56	36529	499.2614	ug/L	87
9) Methyl methacrylate	11.61	41	1840524	535.6626	ug/L	68
10) 2-Nitropropane	11.94	43	590003	573.8046	ug/L	98
13) Cyclohexanone	16.04	55	203273	484.0894	ug/L	84

(#) = qualifier out of range (m) = manual integration
8M400365.D A9FOOWTR.M Fri Oct 03 12:32:47 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400365.D Vial: 9
Acq On : 2 Oct 2014 15:45 Operator: TMB
Sample : WG494714-09 500ug/L STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66818 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:32 2014 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400367.D Vial: 11
Acq On : 2 Oct 2014 16:47 Operator: TMB
Sample : WG494714-10 100ug/L ALT SRC STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66677 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 12:32:48 2014 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration
DataAcq Meth : 8260WTR

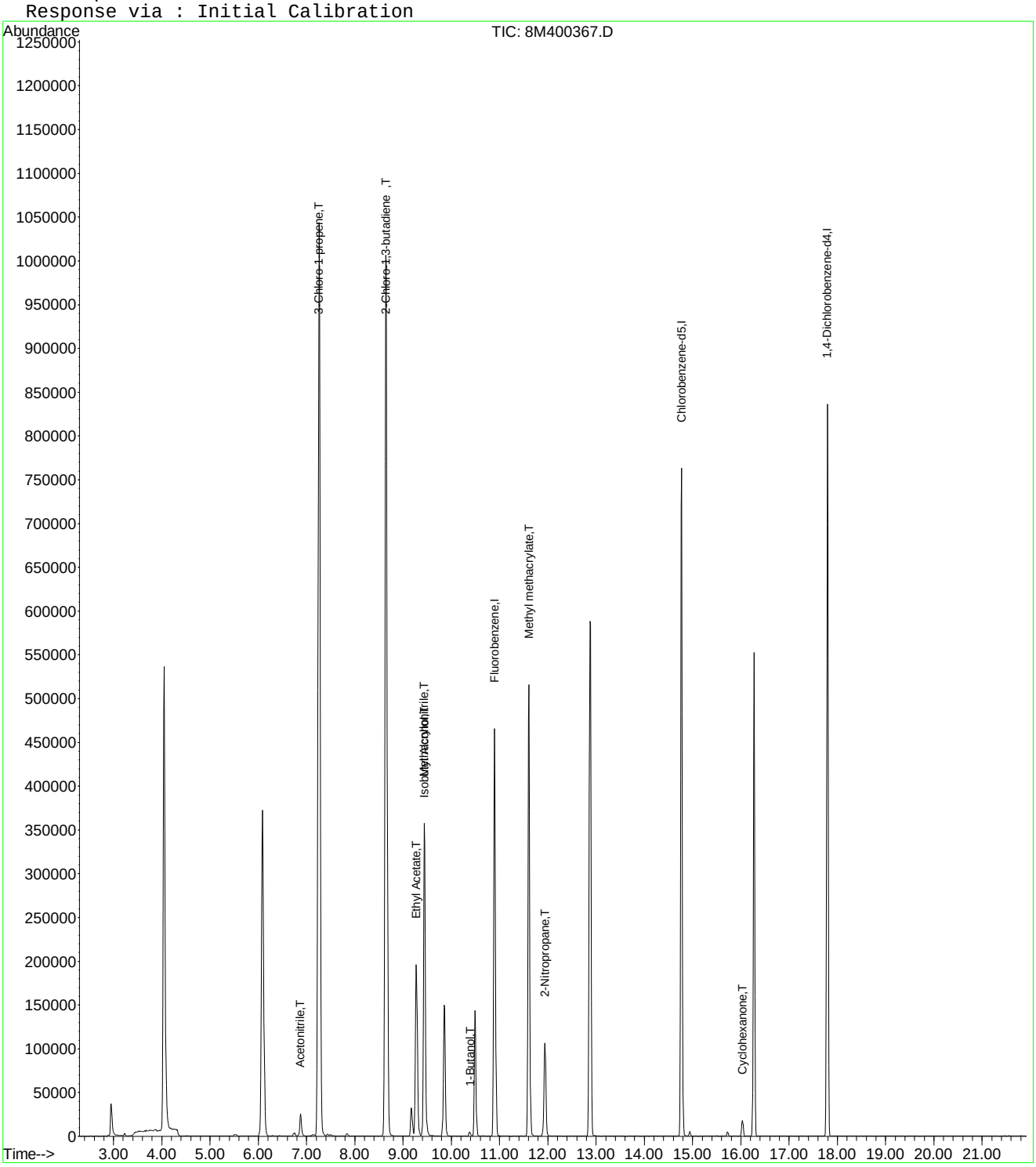
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.90	96	548066	25.00	ug/L		-0.03
11) Chlorobenzene-d5	14.77	117	508831	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	17.79	152	240116	25.00	ug/L		-0.04
Target Compounds							Qvalue
2) Acetonitrile	6.87	41	36847	106.5815	ug/L		98
3) 3-Chloro-1-propene	7.26	41	1001386	109.7284	ug/L		90
4) 2-Chloro-1,3-butadiene	8.64	53	982184	90.9542	ug/L		89
5) Ethyl Acetate	9.27	43	328991	120.1430	ug/L		94
6) Methacrylonitrile	9.44	67	174278	107.0895	ug/L	#	64
7) Isobutyl Alcohol	9.45	43	21185	194.0538	ug/L		99
8) 1-Butanol	10.39	56	5303	100.0865	ug/L		77
9) Methyl methacrylate	11.61	41	317777	103.2198	ug/L		73
10) 2-Nitropropane	11.94	43	95761	103.9416	ug/L		99
13) Cyclohexanone	16.03	55	11614	30.6562	ug/L		97

(#) = qualifier out of range (m) = manual integration
8M400367.D A9FOOWTR.M Fri Oct 03 12:32:49 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100214\8M400367.D Vial: 11
Acq On : 2 Oct 2014 16:47 Operator: TMB
Sample : WG494714-10 100ug/L ALT SRC STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66677 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:32 2014 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\100214\8M400367.D Vial: 11
Acq On : 2 Oct 2014 16:47 Operator: TMB
Sample : WG494714-10 100ug/L ALT SRC STD A9/FOO Inst : HPMS8
Misc : 1,1 STD66677 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-02-14 HPMS8
Last Update : Fri Oct 03 12:32:07 2014
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	92	-0.03
2	T	Acetonitrile	100.0000	106.5815	-6.6	96	-0.02
3	T	3-Chloro-1-propene	100.0000	109.7284	-9.7	96	-0.03
4	T	2-Chloro-1,3-butadiene	100.0000	90.9542	9.0	79	-0.03
5	T	Ethyl Acetate	100.0000	120.1430	-20.1	104	-0.02
6	T	Methacrylonitrile	100.0000	107.0895	-7.1	95	-0.03
7	T	Isobutyl Alcohol	200.0000	194.0538	3.0	91	-0.02
8	T	1-Butanol	100.0000	100.0865	-0.1	97	0.00
9	T	Methyl methacrylate	100.0000	103.2198	-3.2	90	-0.02
10	T	2-Nitropropane	100.0000	103.9416	-3.9	93	-0.03
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	97	-0.03
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	96	-0.04
13	T	Cyclohexanone	100.0000	30.6562	69.3	27	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M400367.D A9FOOWTR.M Fri Oct 03 12:33:23 2014 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405865.D Vial: 3
Acq On : 2 Jul 2015 15:36 Operator: ADC/ JDS
Sample : WG529657-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:25:03 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:24:26 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	711716	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.58	117	495931	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	263508	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%#			
58) Toluene-d8	12.71	98	393	0.0160	ug/L		0.02
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.08%#			
80) p-Bromofluorobenzene	16.08	95	642	0.0682	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.28%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.16	85	1962	0.4166	ug/L		83
3) Chloromethane	3.63	50	5022	0.3593	ug/L	#	65
4) Vinyl Chloride	3.85	62	4525	0.4205	ug/L		98
5) 1,3-Butadiene	3.91	54	2863	0.3347	ug/L	#	33
6) Bromomethane	4.76	94	1217	0.2535	ug/L		98
7) Chloroethane	4.91	64	749	0.1618	ug/L	#	43
8) Trichlorofluoromethane	5.39	101	3006	0.2776	ug/L	#	91
10) Isoprene	5.95	67	1647	0.4530	ug/L		84
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	1334	0.2244	ug/L		73
13) Acetone	6.25	43	403	0.4609	ug/L	#	48
14) 1,1-Dichloroethene	6.47	61	2863	0.2754	ug/L		92
16) Dimethyl Sulfide	6.75	62	1550	0.2736	ug/L		93
17) Iodomethane	7.00	142	1014	0.7241	ug/L	#	28
18) Methyl acetate	7.00	43	651	0.1875	ug/L	#	64
19) Methylene Chloride	7.26	84	1609	0.2454	ug/L		76
20) Carbon Disulfide	7.30	76	7649	0.4093	ug/L	#	90
22) Methyl Tert Butyl Ether	7.48	73	2892	0.2408	ug/L	#	50
23) trans-1,2-Dichloroethene	7.72	61	2880	0.2866	ug/L		98
24) n-Hexane	7.79	57	3870	0.3892	ug/L		85
27) 1,1-Dichloroethane	8.32	63	4008	0.3073	ug/L	#	66
31) 2,2-Dichloropropane	9.12	77	2785	0.2674	ug/L	#	71
32) cis-1,2-Dichloroethene	9.18	96	2105	0.3032	ug/L		88
33) Chloroform	9.38	83	3685	0.3106	ug/L		85
35) Bromochloromethane	9.63	130	496	0.1446	ug/L	#	7
38) 1,1,1-Trichloroethane	9.90	97	2943	0.2613	ug/L		93
39) Cyclohexane	9.95	56	3698	0.8060	ug/L	#	75
40) 1,1-Dichloropropene	10.11	75	2524	0.2796	ug/L	#	60
42) Carbon Tetrachloride	10.26	117	3304	0.3239	ug/L	#	71
45) 1,2-Dichloroethane	10.42	62	1866	0.2313	ug/L	#	70
46) Benzene	10.46	78	8614	0.3328	ug/L		88
47) Trichloroethene	11.22	130	1807	0.2807	ug/L		92
48) Methylcyclohexane	11.30	83	3067	0.2922	ug/L	#	79
49) 1,2-Dichloropropane	11.44	63	1762	0.2454	ug/L		76
50) Bromodichloromethane	11.72	83	2767	0.3122	ug/L	#	63
52) Dibromomethane	11.82	93	659	0.1986	ug/L	#	46
53) 2-Chloroethyl Vinyl Ether	12.03	63	583	0.1858	ug/L	#	53
55) cis-1,3-Dichloropropene	12.36	75	2450	0.2492	ug/L		91
56) Dimethyl Disulfide	12.63	79	742	0.1356	ug/L		58
59) Toluene	12.79	91	9730	0.3563	ug/L		93
60) Ethyl Methacrylate	12.88	69	674	0.1338	ug/L		83

(#) = qualifier out of range (m) = manual integration
8M405865.D 8260WT.M Fri Jul 03 13:25:29 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405865.D Vial: 3
Acq On : 2 Jul 2015 15:36 Operator: ADC/ JDS
Sample : WG529657-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:25:03 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:24:26 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

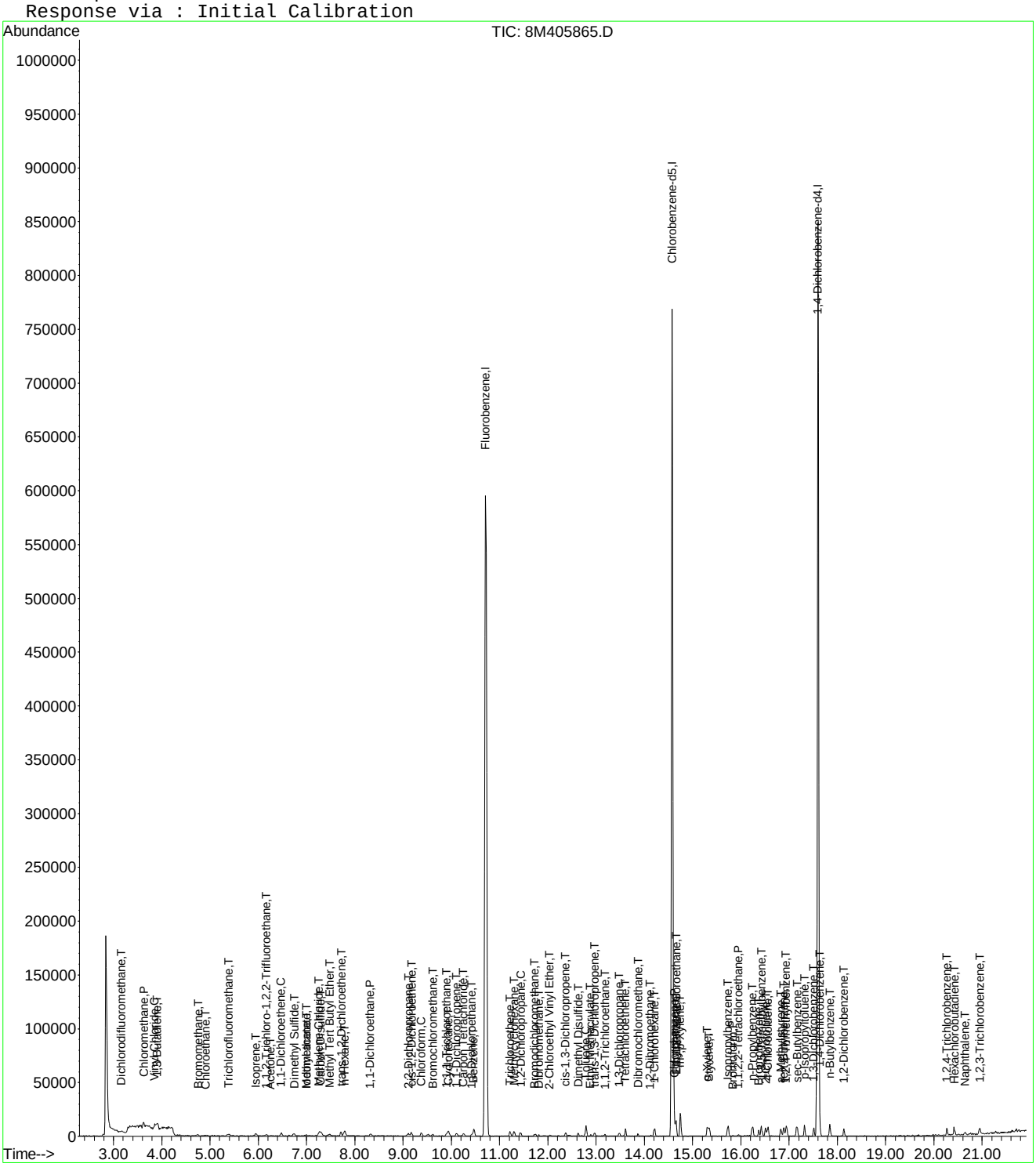
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
62)	trans-1,3-Dichloropropene	12.98	75	2307	0.2739 ug/L		81
63)	1,1,2-Trichloroethane	13.19	97	973	0.2305 ug/L		64
65)	1,3-Dichloropropane	13.48	76	2275	0.3076 ug/L		98
66)	Tetrachloroethene	13.61	164	1769	0.3171 ug/L		87
67)	Dibromochloromethane	13.87	129	1230	0.4051 ug/L	#	60
68)	1,2-Dibromoethane	14.12	107	707	0.1740 ug/L	#	39
69)	1-Chlorohexane	14.22	91	3545	0.5296 ug/L		71
70)	Chlorobenzene	14.63	112	5974	0.3262 ug/L		85
71)	1,1,1,2-Tetrachloroethane	14.66	131	1697	0.2548 ug/L		92
72)	Ethylbenzene	14.66	106	2691	0.2612 ug/L		78
73)	m-,p-Xylene	14.74	106	8305	0.6845 ug/L		96
74)	o-Xylene	15.30	106	3642	0.3095 ug/L		97
75)	Styrene	15.34	104	4980	0.2633 ug/L		87
76)	Bromoform	15.84	173	746	0.6640 ug/L	#	27
77)	Isopropylbenzene	15.74	105	9555	0.3237 ug/L		100
79)	1,1,2,2-Tetrachloroethane	15.95	83	1262	0.2838 ug/L	#	83
83)	n-Propylbenzene	16.24	91	12447	0.3475 ug/L		94
84)	Bromobenzene	16.38	156	2289	0.3132 ug/L		91
85)	1,3,5-Trimethylbenzene	16.43	105	7793	0.3120 ug/L		98
86)	2-Chlorotoluene	16.52	91	7103	0.3141 ug/L		95
87)	4-Chlorotoluene	16.56	91	7927	0.3460 ug/L		97
88)	a-Methylstyrene	16.83	118	2928	0.2210 ug/L		97
89)	tert-Butylbenzene	16.89	134	1333	0.2619 ug/L		57
90)	1,2,4-Trimethylbenzene	16.94	105	7965	0.3128 ug/L		95
91)	sec-Butylbenzene	17.17	105	10208	0.3430 ug/L		100
92)	p-Isopropyltoluene	17.32	119	8504	0.3288 ug/L		96
93)	1,3-Dichlorobenzene	17.51	146	4541	0.3122 ug/L		97
94)	1,4-Dichlorobenzene	17.64	146	5506	0.3710 ug/L	#	1
95)	n-Butylbenzene	17.84	91	10320	0.4069 ug/L	#	91
96)	1,2-Dichlorobenzene	18.13	146	3974	0.3060 ug/L		98
98)	1,2,4-Trichlorobenzene	20.27	180	3003	0.3087 ug/L		96
99)	Hexachlorobutadiene	20.43	225	2284	0.4373 ug/L	#	74
100)	Naphthalene	20.65	128	3645	0.2842 ug/L	#	67
101)	1,2,3-Trichlorobenzene	20.96	180	2687	0.3176 ug/L	#	89

(#) = qualifier out of range (m) = manual integration
8M405865.D 8260WT.M Fri Jul 03 13:25:29 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405865.D Vial: 3
Acq On : 2 Jul 2015 15:36 Operator: ADC/ JDS
Sample : WG529657-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 13:25 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:24:26 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\2\DATA\070215\8M405865.D Vial: 3
Acq On : 2 Jul 2015 15:36 Operator: ADC/ JDS
Sample : WG529657-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:24:26 2015
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	-1.0000	0.4166	0.0	0	-0.01
3	P	Chloromethane	-1.0000	0.3593	0.0	100	0.00
4	C	Vinyl Chloride	-1.0000	0.4205	0.0	100	0.00
5	T	1,3-Butadiene	-1.0000	0.3347	0.0	100	0.02
6	T	Bromomethane	-1.0000	0.2535	0.0	100	0.02
7	T	Chloroethane	-1.0000	0.1618	0.0	100	0.00
8	T	Trichlorofluoromethane	-1.0000	0.2776	0.0	100	0.00
9	T	Diethyl ether	-1.0000	0.0000	0.0	0	-5.91#
10	T	Isoprene	-1.0000	0.4530	0.0	100	0.00
11	T	Acrolein	-1.0000	0.0000	0.0	0	-6.15#
12	T	1,1,2-Trichloro-1,2,2-Trifl	-1.0000	0.2244	0.0	100	0.00
13	T	Acetone	-1.0000	0.4609	0.0	100	0.00
14	C	1,1-Dichloroethene	-1.0000	0.2754	0.0	100	0.00
15	T	Tert-Butyl Alcohol	-1.0000	0.0000	0.0	0	-6.59#
16	T	Dimethyl Sulfide	-1.0000	0.2736	0.0	100	0.00
17	T	Iodomethane	-1.0000	0.7241	0.0	100	0.00
18	T	Methyl acetate	-1.0000	0.1875	0.0	100	-0.01
19	T	Methylene Chloride	-1.0000	0.2454	0.0	100	0.00
20	T	Carbon Disulfide	-1.0000	0.4093	0.0	100	0.00
21	T	Acrylonitrile	-1.0000	0.0000	0.0	0	-7.44#
22	T	Methyl Tert Butyl Ether	-1.0000	0.2408	0.0	100	0.00
23	T	trans-1,2-Dichloroethene	-1.0000	0.2866	0.0	100	0.00
24	T	n-Hexane	-1.0000	0.3892	0.0	100	0.00
25	T	Diisopropyl ether	-1.0000	0.0000	0.0	0	-8.14#
26	T	Vinyl Acetate	-1.0000	0.0951	0.0	100	0.00
27	P	1,1-Dichloroethane	-1.0000	0.3073	0.0	100	-0.01
28	T	Ethyl-Tert-Butyl ether	-1.0000	0.0000	0.0	0	-8.71#
29	T	2-Butanone	-1.0000	0.0000	0.0	0	-8.89#
30	T	Propionitrile	-1.0000	0.0000	0.0	0	-9.00#
31	T	2,2-Dichloropropane	-1.0000	0.2674	0.0	100	0.00
32	T	cis-1,2-Dichloroethene	-1.0000	0.3032	0.0	100	0.00
33	C	Chloroform	0.3000	0.3106	-3.5	100	0.00
34		1-Bromopropane	-1.0000	0.0000	0.0	0	-9.52#
35	T	Bromochloromethane	-1.0000	0.1446	0.0	100	0.00
36	T	Tetrahydrofuran	-1.0000	0.0000	0.0	0	-9.64#
37	S	Dibromofluoromethane	-1.0000	0.0000	0.0	0	-9.67#
38	T	1,1,1-Trichloroethane	-1.0000	0.2613	0.0	100	-0.01
39	T	Cyclohexane	-1.0000	0.8060	0.0	100	0.00
40	T	1,1-Dichloropropene	-1.0000	0.2796	0.0	100	0.00
41	T	Tert-Amyl-Methyl ether	-1.0000	0.0000	0.0	0	-10.22#
42	T	Carbon Tetrachloride	-1.0000	0.3239	0.0	100	0.00
43	S	1,2-Dichloroethane-d4	-1.0000	0.0000	0.0	0	-10.31#
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	-1.0000	0.2313	0.0	100	-0.01
46	T	Benzene	0.3000	0.3328	-10.9	100	-0.01
47	T	Trichloroethene	-1.0000	0.2807	0.0	100	0.00
48	T	Methylcyclohexane	-1.0000	0.2922	0.0	100	0.00
49	C	1,2-Dichloropropane	-1.0000	0.2454	0.0	100	0.00
50	T	Bromodichloromethane	-1.0000	0.3122	0.0	100	-0.01
51	T	1,4-Dioxane	-1.0000	0.0000	0.0	0	-11.71#
52	T	Dibromomethane	-1.0000	0.1986	0.0	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	0.1858	0.0	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	0.0000	0.0	0	-12.07#

(#) = Out of Range
8M405865.D 8260WT.M Fri Jul 03 13:25:24 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070215\8M405865.D Vial: 3
Acq On : 2 Jul 2015 15:36 Operator: ADC/ JDS
Sample : WG529657-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:24:26 2015
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	cis-1,3-Dichloropropene	-1.0000	0.2492	0.0	100	0.00
56	T	Dimethyl Disulfide	-1.0000	0.1356	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	-1.0000	0.0160	0.0	100	0.02
59	C	Toluene	-1.0000	0.3563	0.0	100	0.00
60	T	Ethyl Methacrylate	-1.0000	0.1338	0.0	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	-1.0000	0.2739	0.0	100	0.00
63	T	1,1,2-Trichloroethane	-1.0000	0.2305	0.0	100	0.00
64	T	2-Hexanone	-1.0000	0.0000	0.0	0	-13.12#
65	T	1,3-Dichloropropane	-1.0000	0.3076	0.0	100	0.00
66	T	Tetrachloroethene	-1.0000	0.3171	0.0	100	0.00
67	T	Dibromochloromethane	-1.0000	0.4051	0.0	100	0.00
68	T	1,2-Dibromoethane	-1.0000	0.1740	0.0	100	0.00
69	T	1-Chlorohexane	-1.0000	0.5296	0.0	100	0.00
70	P	Chlorobenzene	-1.0000	0.3262	0.0	100	0.00
71	T	1,1,1,2-Tetrachloroethane	-1.0000	0.2548	0.0	100	0.00
72	C	Ethylbenzene	-1.0000	0.2612	0.0	100	0.00
73	T	m-,p-Xylene	-1.0000	0.6845	0.0	100	0.00
74	T	o-Xylene	-1.0000	0.3095	0.0	100	-0.01
75	T	Styrene	-1.0000	0.2633	0.0	100	0.00
76	P	Bromoform	-1.0000	0.6640	0.0	100	0.00
77	T	Isopropylbenzene	-1.0000	0.3237	0.0	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	-1.0000	0.2838	0.0	100	0.00
80	S	p-Bromofluorobenzene	-1.0000	0.0682	0.0	100	0.00
81	T	1,2,3-Trichloropropane	-1.0000	0.0000	0.0	0	-16.14#
82	T	trans-1,4-Dichloro-2-Butene	-1.0000	0.0000	0.0	0	-16.19#
83	T	n-Propylbenzene	-1.0000	0.3475	0.0	100	0.00
84	T	Bromobenzene	0.3000	0.3132	-4.4	100	0.00
85	T	1,3,5-Trimethylbenzene	-1.0000	0.3120	0.0	100	0.00
86	T	2-Chlorotoluene	-1.0000	0.3141	0.0	100	0.00
87	T	4-Chlorotoluene	-1.0000	0.3460	0.0	100	0.00
88	T	a-Methylstyrene	-1.0000	0.2210	0.0	100	0.00
89	T	tert-Butylbenzene	-1.0000	0.2619	0.0	100	0.00
90	T	1,2,4-Trimethylbenzene	-1.0000	0.3128	0.0	100	-0.01
91	T	sec-Butylbenzene	-1.0000	0.3430	0.0	100	0.00
92	T	p-Isopropyltoluene	-1.0000	0.3288	0.0	100	0.00
93	T	1,3-Dichlorobenzene	-1.0000	0.3122	0.0	100	0.00
94	T	1,4-Dichlorobenzene	0.3000	0.3710	-23.7	100	0.00
95	T	n-Butylbenzene	-1.0000	0.4069	0.0	100	0.00
96	T	1,2-Dichlorobenzene	0.3000	0.3060	-2.0	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	-1.0000	0.0000	0.0	0	-19.13#
98	T	1,2,4-Trichlorobenzene	-1.0000	0.3087	0.0	100	0.00
99	T	Hexachlorobutadiene	-1.0000	0.4373	0.0	100	0.00
100	T	Naphthalene	-1.0000	0.2842	0.0	100	0.00
101	T	1,2,3-Trichlorobenzene	0.3000	0.3176	-5.9	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M405865.D 8260WT.M Fri Jul 03 13:25:24 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405866.D Vial: 4
Acq On : 2 Jul 2015 16:05 Operator: ADC/ JDS
Sample : WG529657-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:25:03 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:24:26 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	673860	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.58	117	473208	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	251442	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%#			
58) Toluene-d8	12.68	98	392	0.0167	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.08%#			
80) 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	3.18	85	2790	0.5419	ug/L		84
3) Chloromethane	3.63	50	9866	0.7455	ug/L	#	65
4) Vinyl Chloride	3.85	62	5025	0.4932	ug/L		96
5) 1,3-Butadiene	3.91	54	3811	0.4706	ug/L		74
6) Bromomethane	4.73	94	2029	0.4464	ug/L		96
7) Chloroethane	4.91	64	1247	0.2845	ug/L	#	43
8) Trichlorofluoromethane	5.39	101	4632	0.4517	ug/L	#	79
10) Isoprene	5.95	67	2768	0.6085	ug/L		71
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	1984	0.3525	ug/L		59
13) Acetone	6.26	43	504	0.6088	ug/L	#	48
14) 1,1-Dichloroethene	6.48	61	4596	0.4670	ug/L		79
16) Dimethyl Sulfide	6.74	62	2070	0.3860	ug/L		96
17) Iodomethane	6.99	142	1550	0.8454	ug/L	#	28
19) Methylene Chloride	7.26	84	3329	0.5364	ug/L		78
20) Carbon Disulfide	7.30	76	8479	0.4792	ug/L		95
22) Methyl Tert Butyl Ether	7.47	73	4709	0.4141	ug/L	#	60
23) trans-1,2-Dichloroethene	7.71	61	4281	0.4499	ug/L		90
24) n-Hexane	7.77	57	4205	0.4467	ug/L		89
26) Vinyl Acetate	8.30	43	1907	0.3750	ug/L	#	77
27) 1,1-Dichloroethane	8.33	63	5422	0.4390	ug/L	#	85
31) 2,2-Dichloropropane	9.11	77	3856	0.3910	ug/L		92
32) cis-1,2-Dichloroethene	9.18	96	2314	0.3520	ug/L		93
33) Chloroform	9.39	83	4459	0.3969	ug/L		98
34) 1-Bromopropane	9.53	122	207	0.8557	ug/L	#	1
35) Bromochloromethane	9.62	130	1024	0.3154	ug/L		72
38) 1,1,1-Trichloroethane	9.91	97	4316	0.4047	ug/L		89
39) Cyclohexane	9.96	56	4610	0.8924	ug/L	#	94
40) 1,1-Dichloropropene	10.11	75	3454	0.4041	ug/L		98
42) Carbon Tetrachloride	10.26	117	4070	0.4214	ug/L	#	86
45) 1,2-Dichloroethane	10.42	62	2719	0.3559	ug/L	#	84
46) Benzene	10.46	78	10896	0.4447	ug/L	#	85
47) Trichloroethene	11.23	130	2381	0.3906	ug/L		93
48) Methylcyclohexane	11.31	83	4296	0.4323	ug/L		95
49) 1,2-Dichloropropane	11.44	63	2549	0.3750	ug/L		83
50) Bromodichloromethane	11.73	83	3191	0.3802	ug/L	#	85
52) Dibromomethane	11.83	93	1044	0.3323	ug/L		84
53) 2-Chloroethyl Vinyl Ether	12.04	63	659	0.2218	ug/L	#	53
55) cis-1,3-Dichloropropene	12.36	75	3380	0.3631	ug/L		99
56) Dimethyl Disulfide	12.63	79	1115	0.2152	ug/L		70
59) Toluene	12.79	91	11057	0.4243	ug/L		83

(#) = qualifier out of range (m) = manual integration
8M405866.D 8260WT.M Fri Jul 03 13:26:15 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405866.D Vial: 4
Acq On : 2 Jul 2015 16:05 Operator: ADC/ JDS
Sample : WG529657-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:25:03 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:24:26 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

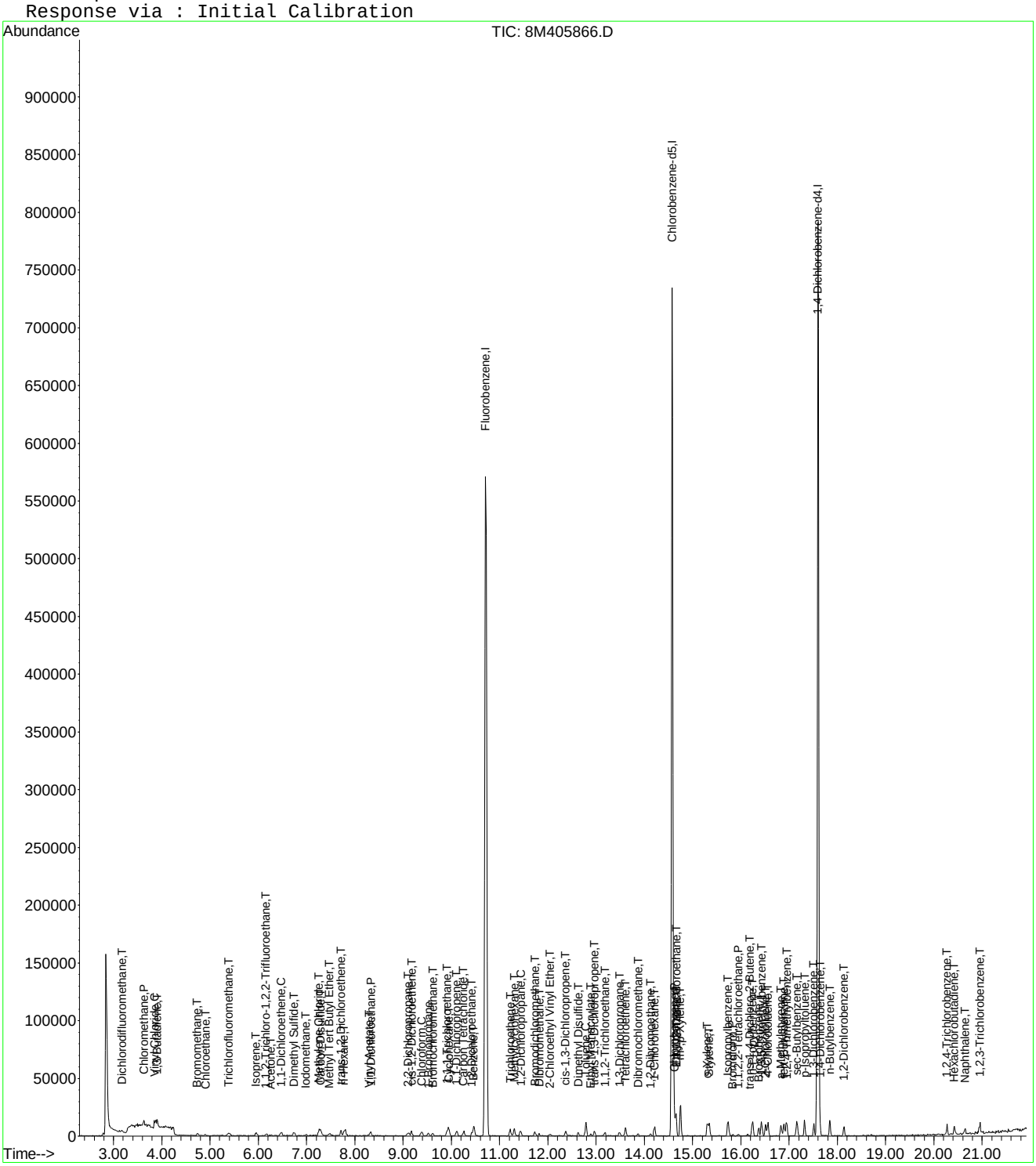
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
60)	Ethyl Methacrylate	12.89	69	893	0.1858 ug/L	#	9
62)	trans-1,3-Dichloropropene	12.96	75	3190	0.3969 ug/L		97
63)	1,1,2-Trichloroethane	13.19	97	1388	0.3446 ug/L		82
65)	1,3-Dichloropropane	13.49	76	2574	0.3648 ug/L		95
66)	Tetrachloroethene	13.62	164	2081	0.3909 ug/L		85
67)	Dibromochloromethane	13.87	129	1758	0.5041 ug/L		83
68)	1,2-Dibromoethane	14.13	107	1583	0.4084 ug/L		81
69)	1-Chlorohexane	14.22	91	3989	0.5958 ug/L		93
70)	Chlorobenzene	14.63	112	7936	0.4542 ug/L		86
71)	1,1,1,2-Tetrachloroethane	14.66	131	2120	0.3337 ug/L		99
72)	Ethylbenzene	14.66	106	3995	0.4064 ug/L		100
73)	m-,p-Xylene	14.74	106	10580	0.9139 ug/L		96
74)	o-Xylene	15.30	106	3981	0.3545 ug/L		76
75)	Styrene	15.34	104	6849	0.3795 ug/L		93
76)	Bromoform	15.83	173	574	0.6256 ug/L		75
77)	Isopropylbenzene	15.73	105	12191	0.4328 ug/L		97
79)	1,1,2,2-Tetrachloroethane	15.95	83	1553	0.3660 ug/L	#	96
82)	trans-1,4-Dichloro-2-Buten	16.19	53	311	0.7348 ug/L		73
83)	n-Propylbenzene	16.24	91	16212	0.4744 ug/L		93
84)	Bromobenzene	16.38	156	3062	0.4391 ug/L		96
85)	1,3,5-Trimethylbenzene	16.43	105	10221	0.4288 ug/L		98
86)	2-Chlorotoluene	16.51	91	8574	0.3973 ug/L		86
87)	4-Chlorotoluene	16.56	91	10244	0.4686 ug/L		84
88)	a-Methylstyrene	16.83	118	4636	0.3666 ug/L		86
89)	tert-Butylbenzene	16.89	134	1315	0.2707 ug/L	#	1
90)	1,2,4-Trimethylbenzene	16.95	105	10572	0.4352 ug/L		99
91)	sec-Butylbenzene	17.16	105	13883	0.4888 ug/L		95
92)	p-Isopropyltoluene	17.33	119	11412	0.4624 ug/L		98
93)	1,3-Dichlorobenzene	17.51	146	5678	0.4091 ug/L		88
94)	1,4-Dichlorobenzene	17.65	146	5961	0.4209 ug/L	#	3
95)	n-Butylbenzene	17.84	91	11706	0.4837 ug/L	#	97
96)	1,2-Dichlorobenzene	18.13	146	5318	0.4291 ug/L		100
98)	1,2,4-Trichlorobenzene	20.27	180	3960	0.4266 ug/L		94
99)	Hexachlorobutadiene	20.42	225	2761	0.5624 ug/L		84
100)	Naphthalene	20.65	128	4862	0.3973 ug/L		99
101)	1,2,3-Trichlorobenzene	20.96	180	3832	0.4747 ug/L		81

(#) = qualifier out of range (m) = manual integration
8M405866.D 8260WT.M Fri Jul 03 13:26:15 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405866.D Vial: 4
Acq On : 2 Jul 2015 16:05 Operator: ADC/ JDS
Sample : WG529657-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 13:25 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:24:26 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\070215\8M405866.D Vial: 4
Acq On : 2 Jul 2015 16:05 Operator: ADC/ JDS
Sample : WG529657-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:24:26 2015
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	0.4000	0.5419	-35.5#	100	0.00
3	P	Chloromethane	-1.0000	0.7455	0.0	100	0.00
4	C	Vinyl Chloride	0.4000	0.4932	-23.3#	100	0.00
5	T	1,3-Butadiene	0.4000	0.4706	-17.6	100	0.02
6	T	Bromomethane	0.4000	0.4464	-11.6	100	0.00
7	T	Chloroethane	0.4000	0.2845	28.9#	100	0.00
8	T	Trichlorofluoromethane	0.4000	0.4517	-12.9	100	0.00
9	T	Diethyl ether	-1.0000	0.0000	0.0	0	-5.91#
10	T	Isoprene	0.4000	0.6085	-52.1#	100	0.00
11	T	Acrolein	-1.0000	0.0000	0.0	0	-6.15#
12	T	1,1,2-Trichloro-1,2,2-Trifl	-1.0000	0.3525	0.0	100	0.00
13	T	Acetone	-1.0000	0.6088	0.0	100	0.02
14	C	1,1-Dichloroethene	0.4000	0.4670	-16.7	100	0.00
15	T	Tert-Butyl Alcohol	-1.0000	0.0000	0.0	0	-6.59#
16	T	Dimethyl Sulfide	0.4000	0.3860	3.5	100	0.00
17	T	Iodomethane	-1.0000	0.8454	0.0	100	0.00
18	T	Methyl acetate	-1.0000	0.0697	0.0	100	-0.01
19	T	Methylene Chloride	-1.0000	0.5364	0.0	100	0.00
20	T	Carbon Disulfide	-1.0000	0.4792	0.0	100	0.00
21	T	Acrylonitrile	-1.0000	0.0000	0.0	0	-7.44#
22	T	Methyl Tert Butyl Ether	-1.0000	0.4141	0.0	100	0.00
23	T	trans-1,2-Dichloroethene	0.4000	0.4499	-12.5	100	0.00
24	T	n-Hexane	-1.0000	0.4467	0.0	100	-0.02
25	T	Diisopropyl ether	-1.0000	0.0000	0.0	0	-8.14#
26	T	Vinyl Acetate	0.4000	0.3750	6.3	100	0.00
27	P	1,1-Dichloroethane	0.4000	0.4390	-9.8	100	0.00
28	T	Ethyl-Tert-Butyl ether	-1.0000	0.0000	0.0	0	-8.71#
29	T	2-Butanone	-1.0000	0.0000	0.0	0	-8.89#
30	T	Propionitrile	-1.0000	0.0000	0.0	0	-9.00#
31	T	2,2-Dichloropropane	0.4000	0.3911	2.2	100	0.00
32	T	cis-1,2-Dichloroethene	0.4000	0.3520	12.0	100	0.00
33	C	Chloroform	0.4000	0.3969	0.8	100	0.00
34		1-Bromopropane	-1.0000	0.8557	0.0	100	0.00
35	T	Bromochloromethane	0.4000	0.3154	21.1	100	0.00
36	T	Tetrahydrofuran	-1.0000	0.0000	0.0	0	-9.64#
37	S	Dibromofluoromethane	-1.0000	0.0000	0.0	0	-9.67#
38	T	1,1,1-Trichloroethane	0.4000	0.4048	-1.2	100	0.00
39	T	Cyclohexane	-1.0000	0.8924	0.0	100	0.00
40	T	1,1-Dichloropropene	-1.0000	0.4041	0.0	100	0.00
41	T	Tert-Amyl-Methyl ether	-1.0000	0.0000	0.0	0	-10.22#
42	T	Carbon Tetrachloride	0.4000	0.4214	-5.3	100	0.00
43	S	1,2-Dichloroethane-d4	-1.0000	0.0000	0.0	0	-10.31#
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	0.4000	0.3559	11.0	100	-0.01
46	T	Benzene	0.4000	0.4447	-11.2	100	-0.01
47	T	Trichloroethene	0.4000	0.3906	2.4	100	0.00
48	T	Methylcyclohexane	-1.0000	0.4323	0.0	100	0.00
49	C	1,2-Dichloropropane	0.4000	0.3750	6.3	100	0.00
50	T	Bromodichloromethane	0.4000	0.3802	4.9	100	0.00
51	T	1,4-Dioxane	-1.0000	0.0000	0.0	0	-11.71#
52	T	Dibromomethane	0.4000	0.3323	16.9	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	0.2218	0.0	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	0.0000	0.0	0	-12.07#

(#) = Out of Range
8M405866.D 8260WT.M Fri Jul 03 13:26:11 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070215\8M405866.D Vial: 4
Acq On : 2 Jul 2015 16:05 Operator: ADC/ JDS
Sample : WG529657-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:24:26 2015
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	cis-1,3-Dichloropropene	0.4000	0.3631	9.2	100	0.00
56	T	Dimethyl Disulfide	-1.0000	0.2152	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	-1.0000	0.0167	0.0	100	0.00
59	C	Toluene	0.4000	0.4243	-6.1	100	0.00
60	T	Ethyl Methacrylate	-1.0000	0.1858	0.0	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	-1.0000	0.3969	0.0	100	0.00
63	T	1,1,2-Trichloroethane	0.4000	0.3446	13.8	100	0.00
64	T	2-Hexanone	-1.0000	0.0000	0.0	0	-13.12#
65	T	1,3-Dichloropropane	0.4000	0.3648	8.8	100	0.00
66	T	Tetrachloroethene	0.4000	0.3909	2.3	100	0.00
67	T	Dibromochloromethane	0.4000	0.5041	-26.0#	100	0.00
68	T	1,2-Dibromoethane	0.4000	0.4084	-2.1	100	0.00
69	T	1-Chlorohexane	0.4000	0.5958	-48.9#	100	0.00
70	P	Chlorobenzene	0.4000	0.4542	-13.5	100	0.00
71	T	1,1,1,2-Tetrachloroethane	0.4000	0.3337	16.6	100	0.00
72	C	Ethylbenzene	0.4000	0.4064	-1.6	100	0.00
73	T	m-,p-Xylene	0.8000	0.9139	-14.2	100	0.00
74	T	o-Xylene	-1.0000	0.3545	0.0	100	-0.01
75	T	Styrene	0.4000	0.3795	5.1	100	0.00
76	P	Bromoform	-1.0000	0.6256	0.0	100	-0.01
77	T	Isopropylbenzene	0.4000	0.4328	-8.2	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	0.4000	0.3660	8.5	100	0.00
80	S	p-Bromofluorobenzene	-1.0000	0.0000	0.0	0	-16.08#
81	T	1,2,3-Trichloropropane	-1.0000	0.0000	0.0	0	-16.14#
82	T	trans-1,4-Dichloro-2-Butene	-1.0000	0.7348	0.0	100	0.00
83	T	n-Propylbenzene	0.4000	0.4744	-18.6	100	0.00
84	T	Bromobenzene	0.4000	0.4391	-9.8	100	0.00
85	T	1,3,5-Trimethylbenzene	0.4000	0.4288	-7.2	100	0.00
86	T	2-Chlorotoluene	0.4000	0.3973	0.7	100	0.00
87	T	4-Chlorotoluene	0.4000	0.4686	-17.2	100	0.00
88	T	a-Methylstyrene	-1.0000	0.3666	0.0	100	0.00
89	T	tert-Butylbenzene	-1.0000	0.2707	0.0	100	0.00
90	T	1,2,4-Trimethylbenzene	0.4000	0.4351	-8.8	100	0.00
91	T	sec-Butylbenzene	-1.0000	0.4888	0.0	100	0.00
92	T	p-Isopropyltoluene	-1.0000	0.4624	0.0	100	0.00
93	T	1,3-Dichlorobenzene	0.4000	0.4091	-2.3	100	0.00
94	T	1,4-Dichlorobenzene	0.4000	0.4209	-5.2	100	0.00
95	T	n-Butylbenzene	-1.0000	0.4837	0.0	100	0.00
96	T	1,2-Dichlorobenzene	0.4000	0.4291	-7.3	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	-1.0000	0.0000	0.0	0	-19.13#
98	T	1,2,4-Trichlorobenzene	0.4000	0.4266	-6.6	100	0.00
99	T	Hexachlorobutadiene	0.4000	0.5624	-40.6#	100	-0.01
100	T	Naphthalene	0.4000	0.3973	0.7	100	0.00
101	T	1,2,3-Trichlorobenzene	0.4000	0.4747	-18.7	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1
8M405866.D 8260WT.M Fri Jul 03 13:26:11 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405867.D Vial: 5
Acq On : 2 Jul 2015 16:34 Operator: ADC/ JDS
Sample : WG529657-04 1.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:27:51 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	668911	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.58	117	471381	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	249944	25.00	ug/L		0.00
System Monitoring Compounds							
37) Dibromofluoromethane	9.67	111	2940	0.4738	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	1.88%#			
43) 1,2-Dichloroethane-d4	10.31	65	3009	0.4957	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	2.00%#			
58) Toluene-d8	12.70	98	11909	0.5107	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	2.04%#			
80) p-Bromofluorobenzene	16.08	95	4590	0.5140	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	2.04%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.17	85	4664	0.7984	ug/L		90
3) Chloromethane	3.62	50	15620	1.1890	ug/L		83
4) Vinyl Chloride	3.85	62	8914	0.8814	ug/L		92
5) 1,3-Butadiene	3.90	54	6658	0.8282	ug/L		77
6) Bromomethane	4.73	94	3645	0.8079	ug/L		96
7) Chloroethane	4.89	64	4165	0.9571	ug/L	#	69
8) Trichlorofluoromethane	5.38	101	7979	0.7839	ug/L	#	93
9) Diethyl ether	5.91	59	19340	4.8566	ug/L		97
10) Isoprene	5.95	67	4938	0.8925	ug/L		87
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	4182	0.7485	ug/L		96
13) Acetone	6.25	43	1063	1.2935	ug/L	#	48
14) 1,1-Dichloroethene	6.46	61	7522	0.7700	ug/L		96
15) Tert-Butyl Alcohol	6.59	59	1089	5.4014	ug/L	#	58
16) Dimethyl Sulfide	6.74	62	4859	0.9127	ug/L		86
17) Iodomethane	6.99	142	3203	1.1904	ug/L		93
18) Methyl acetate	7.01	43	2668	0.8176	ug/L	#	64
19) Methylene Chloride	7.28	84	6337	1.0286	ug/L		85
20) Carbon Disulfide	7.30	76	14624	0.8325	ug/L		98
21) Acrylonitrile	7.44	53	2408	1.9942	ug/L		88
22) Methyl Tert Butyl Ether	7.48	73	10255	0.9086	ug/L		89
23) trans-1,2-Dichloroethene	7.71	61	7812	0.8271	ug/L		100
24) n-Hexane	7.78	57	6637	0.7103	ug/L		91
25) Diisopropyl ether	8.14	45	109662	4.7769	ug/L		100
26) Vinyl Acetate	8.31	43	4427	0.8770	ug/L	#	77
27) 1,1-Dichloroethane	8.33	63	9727	0.7934	ug/L	#	93
28) Ethyl-Tert-Butyl ether	8.72	59	82396	4.6263	ug/L		98
29) 2-Butanone	8.88	43	1005	0.7241	ug/L	#	57
30) Propionitrile	9.00	54	1659	4.0324	ug/L		85
31) 2,2-Dichloropropane	9.11	77	8097	0.8272	ug/L		81
32) cis-1,2-Dichloroethene	9.18	96	5672	0.8693	ug/L		99
33) Chloroform	9.39	83	10226	0.9170	ug/L		99
34) 1-Bromopropane	9.51	122	492	1.1158	ug/L		81
35) Bromochloromethane	9.61	130	3106	0.9638	ug/L		88
36) Tetrahydrofuran	9.65	42	4737	5.1089	ug/L	#	74
38) 1,1,1-Trichloroethane	9.91	97	9111	0.8607	ug/L		90
39) Cyclohexane	9.95	56	8196	1.1764	ug/L		98
40) 1,1-Dichloropropene	10.10	75	6249	0.7366	ug/L		99
41) Tert-Amyl-Methyl ether	10.21	73	61657	4.6561	ug/L		96
42) Carbon Tetrachloride	10.27	117	7488	0.7810	ug/L		93
45) 1,2-Dichloroethane	10.43	62	6825	0.9001	ug/L		92

(#) = qualifier out of range (m) = manual integration
8M405867.D 8260WT.M Fri Jul 03 13:28:19 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405867.D Vial: 5
Acq On : 2 Jul 2015 16:34 Operator: ADC/ JDS
Sample : WG529657-04 1.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:27:51 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

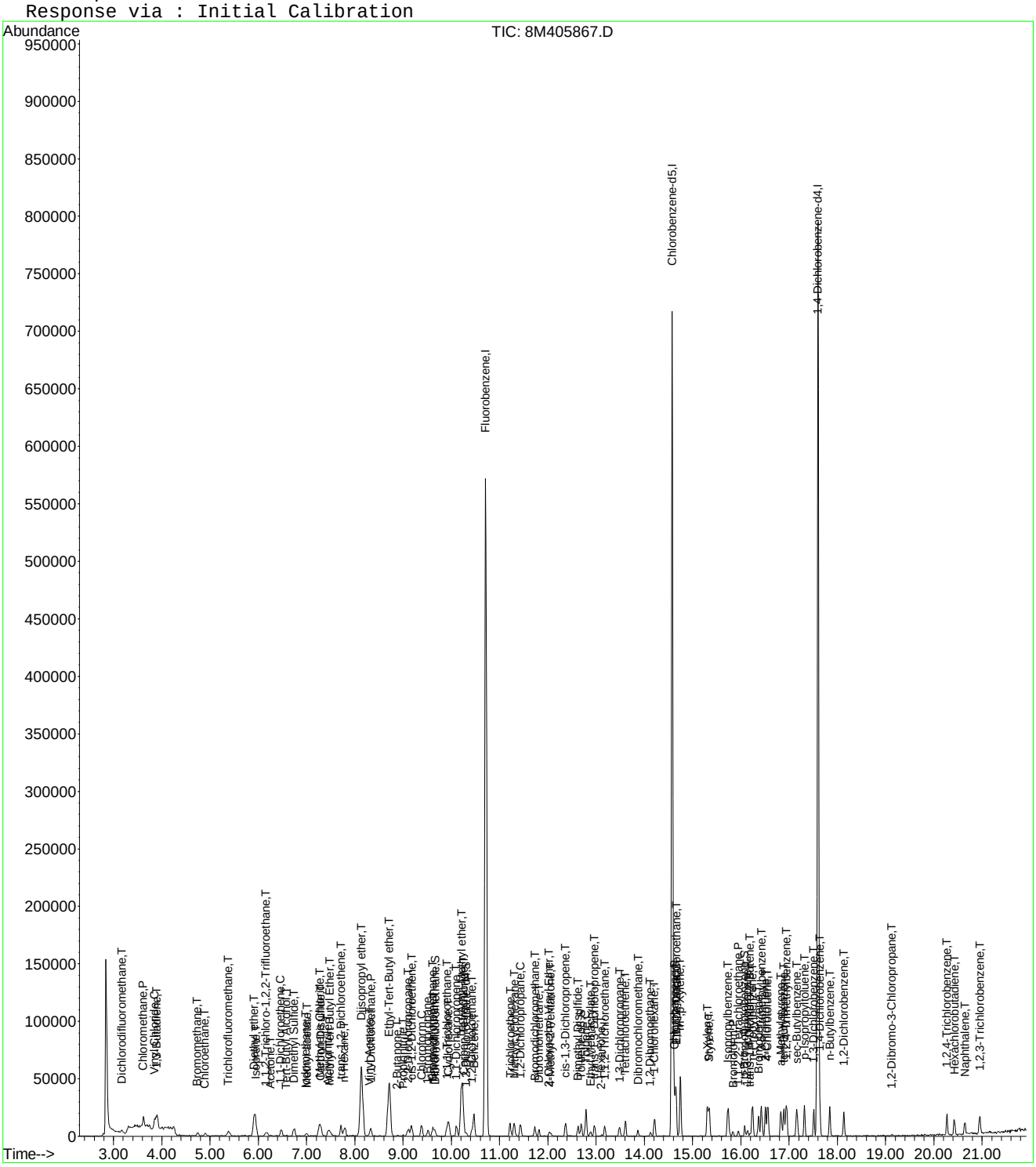
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Benzene	10.47	78	21122	0.8684	ug/L		97
47)	Trichloroethene	11.23	130	4669	0.7716	ug/L		83
48)	Methylcyclohexane	11.31	83	7168	0.7267	ug/L		93
49)	1,2-Dichloropropane	11.43	63	6206	0.9198	ug/L		86
50)	Bromodichloromethane	11.73	83	7060	0.8474	ug/L		91
52)	Dibromomethane	11.82	93	3222	1.0331	ug/L		88
53)	2-Chloroethyl Vinyl Ether	12.02	63	1956	0.6633	ug/L	#	53
54)	4-Methyl-2-Pentanone	12.05	58	814	0.6487	ug/L	#	40
55)	cis-1,3-Dichloropropene	12.36	75	7944	0.8598	ug/L		96
56)	Dimethyl Disulfide	12.62	79	3398	0.6606	ug/L		100
59)	Toluene	12.79	91	23544	0.9070	ug/L		97
60)	Ethyl Methacrylate	12.89	69	3744	0.7820	ug/L		98
62)	trans-1,3-Dichloropropene	12.96	75	6628	0.8278	ug/L		86
63)	1,1,2-Trichloroethane	13.18	97	3788	0.9442	ug/L		97
64)	2-Hexanone	13.11	58	469	0.4046	ug/L	#	1
65)	1,3-Dichloropropane	13.49	76	5848	0.8319	ug/L		100
66)	Tetrachloroethene	13.61	164	3917	0.7386	ug/L		96
67)	Dibromochloromethane	13.87	129	4140	0.9103	ug/L		96
68)	1,2-Dibromoethane	14.12	107	3155	0.8171	ug/L		83
69)	1-Chlorohexane	14.21	91	6151	0.8343	ug/L		81
70)	Chlorobenzene	14.63	112	16214	0.9316	ug/L		97
71)	1,1,1,2-Tetrachloroethane	14.66	131	5063	0.7999	ug/L		89
72)	Ethylbenzene	14.66	106	7982	0.8152	ug/L		99
73)	m-,p-Xylene	14.74	106	20336	1.7635	ug/L		97
74)	o-Xylene	15.31	106	8933	0.7986	ug/L		84
75)	Styrene	15.34	104	14064	0.7823	ug/L		88
76)	Bromoform	15.85	173	2152	1.0681	ug/L	#	81
77)	Isopropylbenzene	15.74	105	23989	0.8549	ug/L		98
79)	1,1,2,2-Tetrachloroethane	15.95	83	4019	0.9529	ug/L	#	91
81)	1,2,3-Trichloropropane	16.13	110	1165	0.9620	ug/L	#	59
82)	trans-1,4-Dichloro-2-Buten	16.19	53	952	1.1505	ug/L	#	1
83)	n-Propylbenzene	16.24	91	30648	0.9022	ug/L		98
84)	Bromobenzene	16.38	156	6279	0.9059	ug/L		98
85)	1,3,5-Trimethylbenzene	16.43	105	21552	0.9097	ug/L		99
86)	2-Chlorotoluene	16.51	91	20147	0.9392	ug/L		97
87)	4-Chlorotoluene	16.55	91	21389	0.9844	ug/L		84
88)	a-Methylstyrene	16.83	118	8983	0.7147	ug/L		93
89)	tert-Butylbenzene	16.89	134	4014	0.8313	ug/L		74
90)	1,2,4-Trimethylbenzene	16.95	105	22060	0.9135	ug/L		99
91)	sec-Butylbenzene	17.16	105	23790	0.8427	ug/L		98
92)	p-Isopropyltoluene	17.32	119	21560	0.8788	ug/L		98
93)	1,3-Dichlorobenzene	17.51	146	12814	0.9287	ug/L		98
94)	1,4-Dichlorobenzene	17.64	146	12578	0.8935	ug/L		89
95)	n-Butylbenzene	17.84	91	22372	0.9299	ug/L		96
96)	1,2-Dichlorobenzene	18.13	146	11092	0.9003	ug/L		98
97)	1,2-Dibromo-3-Chloropropan	19.13	75	223	0.2990	ug/L	#	1
98)	1,2,4-Trichlorobenzene	20.27	180	8172	0.8856	ug/L		96
99)	Hexachlorobutadiene	20.43	225	4043	0.8435	ug/L		87
100)	Naphthalene	20.65	128	11244	0.9243	ug/L		97
101)	1,2,3-Trichlorobenzene	20.96	180	7268	0.9058	ug/L		95

(#) = qualifier out of range (m) = manual integration
8M405867.D 8260WT.M Fri Jul 03 13:28:19 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405867.D Vial: 5
Acq On : 2 Jul 2015 16:34 Operator: ADC/ JDS
Sample : WG529657-04 1.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 13:27 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\2\DATA\070215\8M405867.D Vial: 5
Acq On : 2 Jul 2015 16:34 Operator: ADC/ JDS
Sample : WG529657-04 1.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	1.0000	0.7984	20.2	100	0.00
3	P	Chloromethane	1.0000	1.1890	-18.9	100	0.00
4	C	Vinyl Chloride	1.0000	0.8814	11.9	100	0.00
5	T	1,3-Butadiene	1.0000	0.8282	17.2	100	0.00
6	T	Bromomethane	1.0000	0.8079	19.2	100	0.00
7	T	Chloroethane	1.0000	0.9571	4.3	100	-0.01
8	T	Trichlorofluoromethane	1.0000	0.7839	21.6	100	-0.01
9	T	Diethyl ether	5.0000	4.8566	2.9	100	0.00
10	T	Isoprene	1.0000	0.8925	10.7	100	0.00
11	T	Acrolein	-1.0000	0.0000	0.0	0	-6.15#
12	T	1,1,2-Trichloro-1,2,2-Trifl	1.0000	0.7485	25.2#	100	0.00
13	T	Acetone	-1.0000	1.2935	0.0	100	0.00
14	C	1,1-Dichloroethene	1.0000	0.7700	23.0#	100	-0.01
15	T	Tert-Butyl Alcohol	-1.0000	5.4014	0.0	100	0.00
16	T	Dimethyl Sulfide	1.0000	0.9127	8.7	100	0.00
17	T	Iodomethane	1.0000	1.1905	-19.0	100	0.00
18	T	Methyl acetate	-1.0000	0.8176	0.0	100	0.00
19	T	Methylene Chloride	1.0000	1.0286	-2.9	100	0.02
20	T	Carbon Disulfide	1.0000	0.8325	16.7	100	0.00
21	T	Acrylonitrile	2.5000	1.9942	20.2	100	0.00
22	T	Methyl Tert Butyl Ether	1.0000	0.9086	9.1	100	0.00
23	T	trans-1,2-Dichloroethene	1.0000	0.8271	17.3	100	0.00
24	T	n-Hexane	-1.0000	0.7103	0.0	100	-0.01
25	T	Diisopropyl ether	5.0000	4.7769	4.5	100	0.00
26	T	Vinyl Acetate	1.0000	0.8770	12.3	100	0.00
27	P	1,1-Dichloroethane	1.0000	0.7934	20.7	100	0.00
28	T	Ethyl-Tert-Butyl ether	5.0000	4.6263	7.5	100	0.00
29	T	2-Butanone	-1.0000	0.7241	0.0	100	-0.01
30	T	Propionitrile	5.0000	4.0324	19.4	100	0.00
31	T	2,2-Dichloropropane	1.0000	0.8272	17.3	100	0.00
32	T	cis-1,2-Dichloroethene	1.0000	0.8693	13.1	100	0.00
33	C	Chloroform	1.0000	0.9170	8.3	100	0.00
34		1-Bromopropane	1.0000	1.1158	-11.6	100	-0.01
35	T	Bromochloromethane	1.0000	0.9638	3.6	100	0.00
36	T	Tetrahydrofuran	5.0000	5.1089	-2.2	100	0.00
37	S	Dibromofluoromethane	0.5000	0.4738	5.2	100	0.00
38	T	1,1,1-Trichloroethane	1.0000	0.8607	13.9	100	0.00
39	T	Cyclohexane	1.0000	1.1764	-17.6	100	0.00
40	T	1,1-Dichloropropene	1.0000	0.7366	26.3#	100	-0.01
41	T	Tert-Amyl-Methyl ether	5.0000	4.6561	6.9	100	0.00
42	T	Carbon Tetrachloride	1.0000	0.7810	21.9	100	0.00
43	S	1,2-Dichloroethane-d4	0.5000	0.4957	0.9	100	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	1.0000	0.9001	10.0	100	0.00
46	T	Benzene	1.0000	0.8684	13.2	100	0.00
47	T	Trichloroethene	1.0000	0.7716	22.8	100	0.00
48	T	Methylcyclohexane	-1.0000	0.7267	0.0	100	0.00
49	C	1,2-Dichloropropane	1.0000	0.9198	8.0	100	0.00
50	T	Bromodichloromethane	1.0000	0.8474	15.3	100	0.00
51	T	1,4-Dioxane	-1.0000	0.0000	0.0	0	-11.71#
52	T	Dibromomethane	1.0000	1.0331	-3.3	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	0.6633	0.0	100	-0.01
54	T	4-Methyl-2-Pentanone	-1.0000	0.6487	0.0	100	-0.01

(#) = Out of Range
8M405867.D 8260WT.M Fri Jul 03 13:28:21 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070215\8M405867.D Vial: 5
Acq On : 2 Jul 2015 16:34 Operator: ADC/ JDS
Sample : WG529657-04 1.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	cis-1,3-Dichloropropene	1.0000	0.8598	14.0	100	0.00
56	T	Dimethyl Disulfide	-1.0000	0.6606	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	0.5000	0.5107	-2.1	100	0.00
59	C	Toluene	1.0000	0.9070	9.3	100	0.00
60	T	Ethyl Methacrylate	1.0000	0.7820	21.8	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	1.0000	0.8277	17.2	100	0.00
63	T	1,1,2-Trichloroethane	1.0000	0.9442	5.6	100	0.00
64	T	2-Hexanone	-1.0000	0.4046	0.0	100	-0.01
65	T	1,3-Dichloropropane	1.0000	0.8319	16.8	100	0.00
66	T	Tetrachloroethene	1.0000	0.7386	26.1#	100	0.00
67	T	Dibromochloromethane	1.0000	0.9103	9.0	100	0.00
68	T	1,2-Dibromoethane	1.0000	0.8171	18.3	100	0.00
69	T	1-Chlorohexane	1.0000	0.8343	16.6	100	-0.01
70	P	Chlorobenzene	1.0000	0.9316	6.8	100	0.00
71	T	1,1,1,2-Tetrachloroethane	1.0000	0.7999	20.0	100	0.00
72	C	Ethylbenzene	1.0000	0.8152	18.5	100	0.00
73	T	m-,p-Xylene	2.0000	1.7635	11.8	100	0.00
74	T	o-Xylene	1.0000	0.7986	20.1	100	0.00
75	T	Styrene	1.0000	0.7823	21.8	100	0.00
76	P	Bromoform	1.0000	1.0681	-6.8	100	0.01
77	T	Isopropylbenzene	1.0000	0.8549	14.5	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	1.0000	0.9529	4.7	100	0.00
80	S	p-Bromofluorobenzene	0.5000	0.5140	-2.8	100	0.00
81	T	1,2,3-Trichloropropane	1.0000	0.9619	3.8	100	-0.01
82	T	trans-1,4-Dichloro-2-Butene	1.0000	1.1505	-15.1	100	0.00
83	T	n-Propylbenzene	1.0000	0.9022	9.8	100	0.00
84	T	Bromobenzene	1.0000	0.9059	9.4	100	0.00
85	T	1,3,5-Trimethylbenzene	1.0000	0.9097	9.0	100	0.00
86	T	2-Chlorotoluene	1.0000	0.9392	6.1	100	0.00
87	T	4-Chlorotoluene	1.0000	0.9844	1.6	100	-0.01
88	T	a-Methylstyrene	-1.0000	0.7147	0.0	100	0.00
89	T	tert-Butylbenzene	1.0000	0.8313	16.9	100	0.00
90	T	1,2,4-Trimethylbenzene	1.0000	0.9134	8.7	100	0.00
91	T	sec-Butylbenzene	1.0000	0.8427	15.7	100	0.00
92	T	p-Isopropyltoluene	1.0000	0.8788	12.1	100	0.00
93	T	1,3-Dichlorobenzene	1.0000	0.9287	7.1	100	0.00
94	T	1,4-Dichlorobenzene	1.0000	0.8935	10.7	100	0.00
95	T	n-Butylbenzene	1.0000	0.9299	7.0	100	0.00
96	T	1,2-Dichlorobenzene	1.0000	0.9003	10.0	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	-1.0000	0.2990	0.0	100	0.00
98	T	1,2,4-Trichlorobenzene	1.0000	0.8856	11.4	100	0.00
99	T	Hexachlorobutadiene	1.0000	0.8435	15.7	100	0.00
100	T	Naphthalene	1.0000	0.9243	7.6	100	0.00
101	T	1,2,3-Trichlorobenzene	1.0000	0.9058	9.4	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1
8M405867.D 8260WT.M Fri Jul 03 13:28:21 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405868.D Vial: 6
Acq On : 2 Jul 2015 17:03 Operator: ADC/ JDS
Sample : WG529657-05 2.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:25:04 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:24:26 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	660304	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.58	117	457690	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	247455	25.00	ug/L		0.00
System Monitoring Compounds							
37) Dibromofluoromethane	9.67	111	6135	1.0015	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	4.00%#			
43) 1,2-Dichloroethane-d4	10.31	65	5364	0.8952	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	3.60%#			
58) Toluene-d8	12.69	98	22798	1.0070	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	4.04%#			
80) p-Bromofluorobenzene	16.08	95	9085	1.0276	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	4.12%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.16	85	10180	1.5630	ug/L		93
3) Chloromethane	3.62	50	26302	2.0282	ug/L		93
4) Vinyl Chloride	3.85	62	18188	1.8218	ug/L		97
5) 1,3-Butadiene	3.91	54	14785	1.8632	ug/L	#	72
6) Bromomethane	4.75	94	6727	1.5104	ug/L		85
7) Chloroethane	4.90	64	7346	1.7101	ug/L		93
8) Trichlorofluoromethane	5.38	101	16420	1.6343	ug/L		97
9) Diethyl ether	5.91	59	95755	24.3591	ug/L		97
10) Isoprene	5.96	67	10379	1.6155	ug/L		96
11) Acrolein	6.15	56	3531	15.4772	ug/L		71
12) 1,1,2-Trichloro-1,2,2-Trif	6.15	101	9083	1.6468	ug/L		100
13) Acetone	6.27	43	1603	1.9760	ug/L	#	48
14) 1,1-Dichloroethene	6.48	61	16261	1.6862	ug/L		98
15) Tert-Butyl Alcohol	6.59	59	9791	49.1961	ug/L	#	84
16) Dimethyl Sulfide	6.73	62	8373	1.5933	ug/L		93
17) Iodomethane	6.99	142	6177	1.8236	ug/L		83
18) Methyl acetate	7.00	43	6696	2.0787	ug/L	#	75
19) Methylene Chloride	7.26	84	11417	1.8772	ug/L		94
20) Carbon Disulfide	7.30	76	27849	1.6061	ug/L		99
21) Acrylonitrile	7.45	53	14314	12.0089	ug/L		96
22) Methyl Tert Butyl Ether	7.47	73	20462	1.8365	ug/L		93
23) trans-1,2-Dichloroethene	7.71	61	15907	1.7060	ug/L		100
24) n-Hexane	7.79	57	13196	1.4306	ug/L		96
25) Diisopropyl ether	8.14	45	556496	24.5573	ug/L		100
26) Vinyl Acetate	8.31	43	8358	1.6773	ug/L	#	77
27) 1,1-Dichloroethane	8.32	63	21117	1.7450	ug/L		99
28) Ethyl-Tert-Butyl ether	8.71	59	431479	24.5420	ug/L		99
29) 2-Butanone	8.89	43	2222	1.6217	ug/L	#	57
30) Propionitrile	9.00	54	9456	23.2837	ug/L		89
31) 2,2-Dichloropropane	9.10	77	15792	1.6344	ug/L		93
32) cis-1,2-Dichloroethene	9.17	96	10769	1.6720	ug/L		93
33) Chloroform	9.38	83	19292	1.7525	ug/L		97
34) 1-Bromopropane	9.51	122	1498	2.0470	ug/L		87
35) Bromochloromethane	9.62	130	5711	1.7952	ug/L		95
36) Tetrahydrofuran	9.65	42	22449	24.5269	ug/L		94
38) 1,1,1-Trichloroethane	9.92	97	17678	1.6918	ug/L		93
39) Cyclohexane	9.95	56	17825	1.9500	ug/L		97
40) 1,1-Dichloropropene	10.11	75	13685	1.6341	ug/L		99
41) Tert-Amyl-Methyl ether	10.22	73	318593	24.3725	ug/L		100
42) Carbon Tetrachloride	10.26	117	15583	1.6466	ug/L		95

(#) = qualifier out of range (m) = manual integration
8M405868.D 8260WT.M Fri Jul 03 13:28:41 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070215\8M405868.D Vial: 6
Acq On : 2 Jul 2015 17:03 Operator: ADC/ JDS
Sample : WG529657-05 2.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:25:04 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:24:26 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

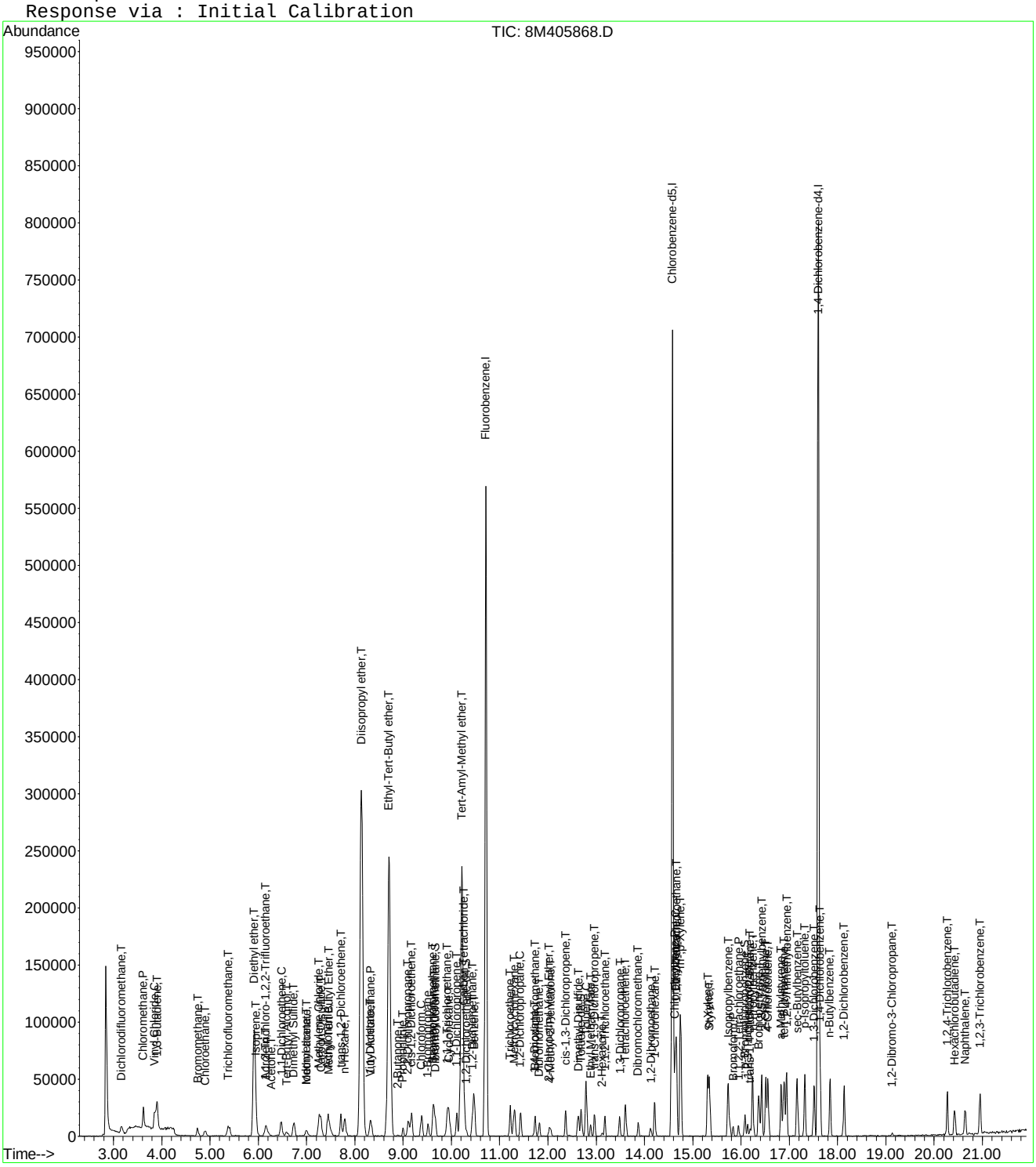
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	13982	1.8680	ug/L		95
46)	Benzene	10.47	78	42892	1.7864	ug/L		97
47)	Trichloroethene	11.22	130	9581	1.6040	ug/L		92
48)	Methylcyclohexane	11.30	83	13168	1.3523	ug/L		88
49)	1,2-Dichloropropane	11.43	63	11824	1.7752	ug/L		95
50)	Bromodichloromethane	11.74	83	13951	1.6964	ug/L		99
51)	1,4-Dioxane	11.73	88	926	60.4900	ug/L	#	63
52)	Dibromomethane	11.82	93	5708	1.8541	ug/L		92
53)	2-Chloroethyl Vinyl Ether	12.03	63	4357	1.4968	ug/L		83
54)	4-Methyl-2-Pentanone	12.06	58	1711	1.3814	ug/L	#	52
55)	cis-1,3-Dichloropropene	12.37	75	16209	1.7772	ug/L		97
56)	Dimethyl Disulfide	12.64	79	6790	1.3372	ug/L		96
59)	Toluene	12.79	91	44882	1.7808	ug/L		99
60)	Ethyl Methacrylate	12.88	69	7740	1.6650	ug/L		92
62)	trans-1,3-Dichloropropene	12.97	75	13811	1.7764	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	6422	1.6486	ug/L		88
64)	2-Hexanone	13.12	58	1240	1.1018	ug/L	#	65
65)	1,3-Dichloropropane	13.49	76	12355	1.8102	ug/L		93
66)	Tetrachloroethene	13.60	164	8617	1.6735	ug/L		94
67)	Dibromochloromethane	13.87	129	8213	1.6445	ug/L		96
68)	1,2-Dibromoethane	14.13	107	6675	1.7804	ug/L		100
69)	1-Chlorohexane	14.22	91	12074	1.5228	ug/L		87
70)	Chlorobenzene	14.63	112	28911	1.7108	ug/L		81
71)	1,1,1,2-Tetrachloroethane	14.66	131	10472	1.7040	ug/L		99
72)	Ethylbenzene	14.65	106	15663	1.6475	ug/L		96
73)	m-,p-Xylene	14.74	106	37552	3.3538	ug/L		94
74)	o-Xylene	15.31	106	18852	1.7358	ug/L		98
75)	Styrene	15.34	104	30913	1.7709	ug/L		100
76)	Bromoform	15.84	173	5571	2.0723	ug/L		90
77)	Isopropylbenzene	15.74	105	47315	1.7366	ug/L		95
79)	1,1,2,2-Tetrachloroethane	15.95	83	7355	1.7613	ug/L		97
81)	1,2,3-Trichloropropane	16.14	110	2358	1.9666	ug/L		66
82)	trans-1,4-Dichloro-2-Buten	16.18	53	1910	1.7825	ug/L	#	1
83)	n-Propylbenzene	16.24	91	62476	1.8576	ug/L		99
84)	Bromobenzene	16.37	156	12389	1.8053	ug/L		97
85)	1,3,5-Trimethylbenzene	16.43	105	40922	1.7446	ug/L		99
86)	2-Chlorotoluene	16.51	91	41052	1.9329	ug/L		98
87)	4-Chlorotoluene	16.55	91	37535	1.7448	ug/L		99
88)	a-Methylstyrene	16.83	118	19081	1.5333	ug/L		97
89)	tert-Butylbenzene	16.90	134	7465	1.5616	ug/L		79
90)	1,2,4-Trimethylbenzene	16.95	105	41876	1.7514	ug/L		99
91)	sec-Butylbenzene	17.16	105	49339	1.7652	ug/L		95
92)	p-Isopropyltoluene	17.32	119	42471	1.7485	ug/L		98
93)	1,3-Dichlorobenzene	17.52	146	25129	1.8396	ug/L		91
94)	1,4-Dichlorobenzene	17.64	146	25555	1.8336	ug/L		86
95)	n-Butylbenzene	17.84	91	40568	1.7032	ug/L		97
96)	1,2-Dichlorobenzene	18.14	146	23593	1.9343	ug/L		93
97)	1,2-Dibromo-3-Chloropropan	19.13	75	1252	1.6956	ug/L		96
98)	1,2,4-Trichlorobenzene	20.28	180	16682	1.8260	ug/L		99
99)	Hexachlorobutadiene	20.42	225	6817	1.4588	ug/L		92
100)	Naphthalene	20.64	128	21544	1.7888	ug/L		96
101)	1,2,3-Trichlorobenzene	20.95	180	14316	1.8020	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M405868.D 8260WT.M Fri Jul 03 13:28:41 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405868.D Vial: 6
Acq On : 2 Jul 2015 17:03 Operator: ADC/ JDS
Sample : WG529657-05 2.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 13:25 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



8M405868.D 8260WT.M Fri Jul 03 13:28:41 2015 Page 3

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\070215\8M405868.D Vial: 6
Acq On : 2 Jul 2015 17:03 Operator: ADC/ JDS
Sample : WG529657-05 2.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	2.0000	1.5630	21.9	100	0.00
3	P	Chloromethane	2.0000	2.0282	-1.4	107	0.00
4	C	Vinyl Chloride	2.0000	1.8218	8.9	100	0.00
5	T	1,3-Butadiene	2.0000	1.8632	6.8	100	0.02
6	T	Bromomethane	2.0000	1.5104	24.5	100	0.01
7	T	Chloroethane	2.0000	1.7101	14.5	100	0.00
8	T	Trichlorofluoromethane	2.0000	1.6343	18.3	100	0.00
9	T	Diethyl ether	25.0000	24.3591	2.6	100	0.00
10	T	Isoprene	2.0000	1.6155	19.2	100	0.00
11	T	Acrolein	12.5000	15.4772	-23.8	100	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	2.0000	1.6468	17.7	100	0.00
13	T	Acetone	-1.0000	1.9760	0.0	100	0.02
14	C	1,1-Dichloroethene	2.0000	1.6862	15.7	100	0.01
15	T	Tert-Butyl Alcohol	50.0000	49.1961	1.6	100	0.00
16	T	Dimethyl Sulfide	2.0000	1.5933	20.3	100	0.00
17	T	Iodomethane	2.0000	1.8236	8.8	100	0.00
18	T	Methyl acetate	-1.0000	2.0787	0.0	100	0.00
19	T	Methylene Chloride	2.0000	1.8772	6.1	100	0.00
20	T	Carbon Disulfide	2.0000	1.6061	19.7	100	0.00
21	T	Acrylonitrile	12.5000	12.0089	3.9	100	0.00
22	T	Methyl Tert Butyl Ether	2.0000	1.8365	8.2	100	0.00
23	T	trans-1,2-Dichloroethene	2.0000	1.7060	14.7	100	0.00
24	T	n-Hexane	-1.0000	1.4306	0.0	100	0.00
25	T	Diisopropyl ether	25.0000	24.5573	1.8	100	0.00
26	T	Vinyl Acetate	2.0000	1.6773	16.1	100	0.01
27	P	1,1-Dichloroethane	2.0000	1.7450	12.8	100	0.00
28	T	Ethyl-Tert-Butyl ether	25.0000	24.5420	1.8	100	0.00
29	T	2-Butanone	-1.0000	1.6217	0.0	100	0.00
30	T	Propionitrile	25.0000	23.2837	6.9	100	0.00
31	T	2,2-Dichloropropane	2.0000	1.6344	18.3	100	0.00
32	T	cis-1,2-Dichloroethene	2.0000	1.6720	16.4	100	0.00
33	C	Chloroform	2.0000	1.7525	12.4	100	0.00
34		1-Bromopropane	2.0000	2.0470	-2.3	100	0.00
35	T	Bromochloromethane	2.0000	1.7952	10.2	100	0.00
36	T	Tetrahydrofuran	25.0000	24.5269	1.9	100	0.01
37	S	Dibromofluoromethane	1.0000	1.0015	-0.1	100	0.00
38	T	1,1,1-Trichloroethane	2.0000	1.6918	15.4	100	0.00
39	T	Cyclohexane	2.0000	1.9500	2.5	100	0.00
40	T	1,1-Dichloropropene	2.0000	1.6341	18.3	100	0.00
41	T	Tert-Amyl-Methyl ether	25.0000	24.3725	2.5	100	0.00
42	T	Carbon Tetrachloride	2.0000	1.6466	17.7	100	0.00
43	S	1,2-Dichloroethane-d4	1.0000	0.8952	10.5	100	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	2.0000	1.8680	6.6	100	0.00
46	T	Benzene	2.0000	1.7864	10.7	100	0.00
47	T	Trichloroethene	2.0000	1.6040	19.8	100	0.00
48	T	Methylcyclohexane	-1.0000	1.3523	0.0	100	0.00
49	C	1,2-Dichloropropane	2.0000	1.7752	11.2	100	0.00
50	T	Bromodichloromethane	2.0000	1.6964	15.2	100	0.00
51	T	1,4-Dioxane	50.0000	60.4900	-21.0	100	0.01
52	T	Dibromomethane	2.0000	1.8541	7.3	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	1.4968	0.0	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	1.3814	0.0	100	0.00

(#) = Out of Range
8M405868.D 8260WT.M Fri Jul 03 13:28:38 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070215\8M405868.D Vial: 6
Acq On : 2 Jul 2015 17:03 Operator: ADC/ JDS
Sample : WG529657-05 2.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	cis-1,3-Dichloropropene	2.0000	1.7772	11.1	100	0.00
56	T	Dimethyl Disulfide	-1.0000	1.3372	0.0	100	0.01
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	1.0000	1.0070	-0.7	100	0.00
59	C	Toluene	2.0000	1.7808	11.0	100	0.00
60	T	Ethyl Methacrylate	2.0000	1.6650	16.7	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	2.0000	1.7764	11.2	100	0.00
63	T	1,1,2-Trichloroethane	2.0000	1.6486	17.6	100	0.00
64	T	2-Hexanone	-1.0000	1.1018	0.0	100	0.00
65	T	1,3-Dichloropropane	2.0000	1.8102	9.5	100	0.01
66	T	Tetrachloroethene	2.0000	1.6735	16.3	100	0.00
67	T	Dibromochloromethane	2.0000	1.6445	17.8	100	0.00
68	T	1,2-Dibromoethane	2.0000	1.7804	11.0	100	0.01
69	T	1-Chlorohexane	2.0000	1.5228	23.9	100	0.00
70	P	Chlorobenzene	2.0000	1.7108	14.5	100	0.00
71	T	1,1,1,2-Tetrachloroethane	2.0000	1.7040	14.8	100	0.00
72	C	Ethylbenzene	2.0000	1.6475	17.6	100	0.00
73	T	m-,p-Xylene	4.0000	3.3538	16.2	100	0.00
74	T	o-Xylene	2.0000	1.7358	13.2	100	0.00
75	T	Styrene	2.0000	1.7709	11.5	100	0.00
76	P	Bromoform	2.0000	2.0723	-3.6	100	0.00
77	T	Isopropylbenzene	2.0000	1.7366	13.2	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	2.0000	1.7613	11.9	100	0.01
80	S	p-Bromofluorobenzene	1.0000	1.0276	-2.8	100	0.00
81	T	1,2,3-Trichloropropane	2.0000	1.9666	1.7	100	0.00
82	T	trans-1,4-Dichloro-2-Butene	2.0000	1.7825	10.9	100	0.00
83	T	n-Propylbenzene	2.0000	1.8576	7.1	100	0.00
84	T	Bromobenzene	2.0000	1.8053	9.7	100	0.00
85	T	1,3,5-Trimethylbenzene	2.0000	1.7446	12.8	100	0.00
86	T	2-Chlorotoluene	2.0000	1.9329	3.4	100	0.00
87	T	4-Chlorotoluene	2.0000	1.7448	12.8	100	0.00
88	T	a-Methylstyrene	-1.0000	1.5333	0.0	100	0.00
89	T	tert-Butylbenzene	2.0000	1.5616	21.9	100	0.00
90	T	1,2,4-Trimethylbenzene	2.0000	1.7514	12.4	100	0.00
91	T	sec-Butylbenzene	2.0000	1.7652	11.7	100	0.00
92	T	p-Isopropyltoluene	2.0000	1.7485	12.6	100	0.00
93	T	1,3-Dichlorobenzene	2.0000	1.8396	8.0	100	0.00
94	T	1,4-Dichlorobenzene	2.0000	1.8336	8.3	100	0.00
95	T	n-Butylbenzene	2.0000	1.7031	14.8	100	0.00
96	T	1,2-Dichlorobenzene	2.0000	1.9343	3.3	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	2.0000	1.6956	15.2	100	0.00
98	T	1,2,4-Trichlorobenzene	2.0000	1.8260	8.7	100	0.00
99	T	Hexachlorobutadiene	2.0000	1.4588	27.1#	100	0.00
100	T	Naphthalene	2.0000	1.7888	10.6	100	0.00
101	T	1,2,3-Trichlorobenzene	2.0000	1.8020	9.9	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M405868.D 8260WT.M Fri Jul 03 13:28:38 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405869.D Vial: 7
Acq On : 2 Jul 2015 17:31 Operator: ADC/ JDS
Sample : WG529657-06 5.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:29:53 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	650802	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.58	117	452096	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	248948	25.00	ug/L		0.00
System Monitoring Compounds							
37) Dibromofluoromethane	9.67	111	16074	2.6622	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 10.64%#				
43) 1,2-Dichloroethane-d4	10.31	65	15428	2.6124	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 10.44%#				
58) Toluene-d8	12.70	98	56268	2.5160	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 10.08%#				
80) p-Bromofluorobenzene	16.08	95	22176	2.4933	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 9.96%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.16	85	31197	4.5074	ug/L		98
3) Chloromethane	3.62	50	67543	5.2845	ug/L		96
4) Vinyl Chloride	3.85	62	50712	5.1538	ug/L		99
5) 1,3-Butadiene	3.90	54	40746	5.2097	ug/L		83
6) Bromomethane	4.73	94	20914	4.7643	ug/L		99
7) Chloroethane	4.90	64	22235	5.2519	ug/L		95
8) Trichlorofluoromethane	5.38	101	51654	5.2161	ug/L		96
9) Diethyl ether	5.91	59	193912	50.0495	ug/L		99
10) Isoprene	5.95	67	32046	4.5229	ug/L		100
11) Acrolein	6.15	56	6032	22.3328	ug/L		82
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	26386	4.8537	ug/L		98
13) Acetone	6.25	43	4052	5.0679	ug/L	#	76
14) 1,1-Dichloroethene	6.47	61	46752	4.9187	ug/L		98
15) Tert-Butyl Alcohol	6.60	59	19741	100.6394	ug/L	#	89
16) Dimethyl Sulfide	6.74	62	25307	4.8860	ug/L		96
17) Iodomethane	6.99	142	18588	4.4867	ug/L		99
18) Methyl acetate	7.01	43	16520	5.2033	ug/L		94
19) Methylene Chloride	7.26	84	29771	4.9666	ug/L		97
20) Carbon Disulfide	7.30	76	89687	5.2480	ug/L		99
21) Acrylonitrile	7.44	53	27526	23.4304	ug/L		91
22) Methyl Tert Butyl Ether	7.47	73	56480	5.1432	ug/L		98
23) trans-1,2-Dichloroethene	7.71	61	43458	4.7289	ug/L		95
24) n-Hexane	7.80	57	43037	4.7339	ug/L		97
25) Diisopropyl ether	8.14	45	1129988	50.5926	ug/L		100
26) Vinyl Acetate	8.30	43	24422	4.9725	ug/L		100
27) 1,1-Dichloroethane	8.33	63	60714	5.0902	ug/L		99
28) Ethyl-Tert-Butyl ether	8.71	59	879859	50.7761	ug/L		99
29) 2-Butanone	8.90	43	6418	4.7525	ug/L	#	80
30) Propionitrile	8.99	54	18919	47.2649	ug/L		96
31) 2,2-Dichloropropane	9.11	77	51288	5.3855	ug/L		95
32) cis-1,2-Dichloroethene	9.18	96	33464	5.2715	ug/L		97
33) Chloroform	9.38	83	54840	5.0543	ug/L		97
34) 1-Bromopropane	9.52	122	4390	4.7660	ug/L		95
35) Bromochloromethane	9.61	130	15475	4.9354	ug/L		95
36) Tetrahydrofuran	9.65	42	43324	48.0252	ug/L		96
38) 1,1,1-Trichloroethane	9.91	97	50943	4.9466	ug/L		99
39) Cyclohexane	9.95	56	54355	4.9162	ug/L		97
40) 1,1-Dichloropropene	10.11	75	41318	5.0058	ug/L		100
41) Tert-Amyl-Methyl ether	10.21	73	645138	50.0740	ug/L		100
42) Carbon Tetrachloride	10.26	117	48134	5.1603	ug/L		99

(#) = qualifier out of range (m) = manual integration
8M405869.D 8260WT.M Fri Jul 03 13:29:54 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405869.D Vial: 7
Acq On : 2 Jul 2015 17:31 Operator: ADC/ JDS
Sample : WG529657-06 5.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:29:53 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

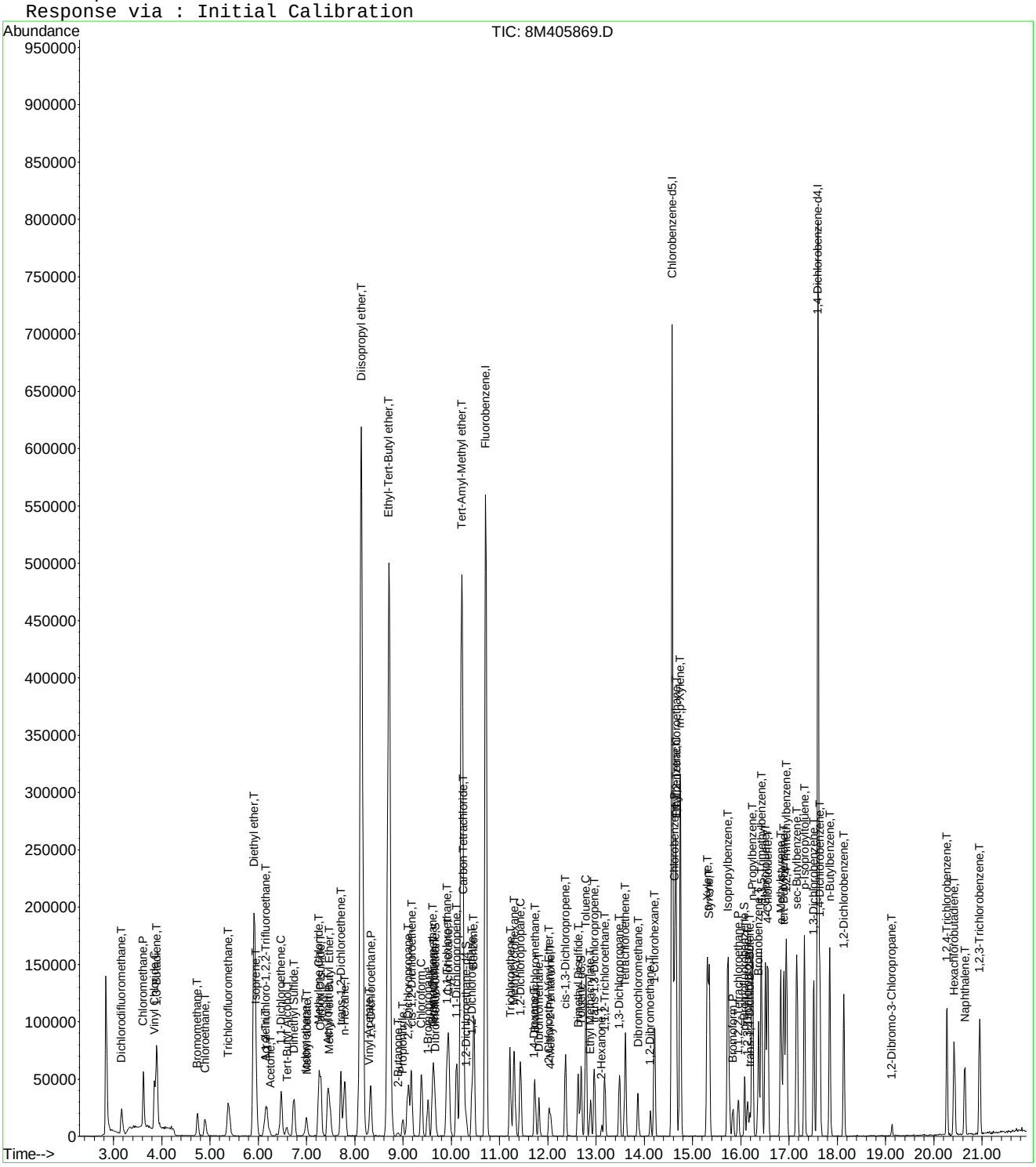
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	37290	5.0546	ug/L		98
46)	Benzene	10.46	78	120979	5.1122	ug/L		98
47)	Trichloroethene	11.23	130	28772	4.8871	ug/L		96
48)	Methylcyclohexane	11.30	83	45104	4.6997	ug/L		100
49)	1,2-Dichloropropane	11.43	63	31647	4.8208	ug/L		99
50)	Bromodichloromethane	11.73	83	40093	4.9463	ug/L		97
51)	1,4-Dioxane	11.71	88	1589	87.9645	ug/L		68
52)	Dibromomethane	11.82	93	15205	5.0112	ug/L		98
53)	2-Chloroethyl Vinyl Ether	12.02	63	12962	4.5180	ug/L		97
54)	4-Methyl-2-Pentanone	12.06	58	5038	4.1269	ug/L		96
55)	cis-1,3-Dichloropropene	12.37	75	44215	4.9186	ug/L		98
56)	Dimethyl Disulfide	12.63	79	19886	3.9734	ug/L		95
59)	Toluene	12.79	91	132057	5.3044	ug/L		100
60)	Ethyl Methacrylate	12.88	69	20917	4.5553	ug/L		96
62)	trans-1,3-Dichloropropene	12.96	75	36960	4.8127	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	19876	5.1654	ug/L		99
64)	2-Hexanone	13.12	58	5002	4.4993	ug/L	#	97
65)	1,3-Dichloropropane	13.48	76	36162	5.3638	ug/L		99
66)	Tetrachloroethene	13.61	164	26487	5.2076	ug/L		98
67)	Dibromochloromethane	13.87	129	26249	4.8596	ug/L		99
68)	1,2-Dibromoethane	14.12	107	18779	5.0709	ug/L		98
69)	1-Chlorohexane	14.22	91	40634	4.8020	ug/L		98
70)	Chlorobenzene	14.63	112	85436	5.1181	ug/L		94
71)	1,1,1,2-Tetrachloroethane	14.66	131	30470	5.0194	ug/L		99
72)	Ethylbenzene	14.66	106	45323	4.8261	ug/L		97
73)	m-,p-Xylene	14.74	106	111469	10.0784	ug/L		94
74)	o-Xylene	15.31	106	55218	5.1470	ug/L		98
75)	Styrene	15.34	104	85130	4.9371	ug/L		95
76)	Bromoform	15.84	173	13855	4.5111	ug/L		94
77)	Isopropylbenzene	15.74	105	143390	5.3280	ug/L		98
79)	1,1,2,2-Tetrachloroethane	15.95	83	21674	5.1592	ug/L		95
81)	1,2,3-Trichloropropane	16.14	110	5709	4.7328	ug/L		72
82)	trans-1,4-Dichloro-2-Buten	16.19	53	6018	4.4422	ug/L	#	22
83)	n-Propylbenzene	16.24	91	182811	5.4029	ug/L		98
84)	Bromobenzene	16.37	156	34405	4.9835	ug/L		97
85)	1,3,5-Trimethylbenzene	16.43	105	125734	5.3282	ug/L		99
86)	2-Chlorotoluene	16.51	91	114157	5.3428	ug/L		99
87)	4-Chlorotoluene	16.56	91	110297	5.0964	ug/L		98
88)	a-Methylstyrene	16.83	118	56813	4.5381	ug/L		99
89)	tert-Butylbenzene	16.89	134	23853	4.9600	ug/L		94
90)	1,2,4-Trimethylbenzene	16.95	105	124231	5.1647	ug/L		98
91)	sec-Butylbenzene	17.16	105	156875	5.5788	ug/L		99
92)	p-Isopropyltoluene	17.32	119	132004	5.4019	ug/L		97
93)	1,3-Dichlorobenzene	17.51	146	69612	5.0655	ug/L		99
94)	1,4-Dichlorobenzene	17.64	146	68975	4.9194	ug/L		97
95)	n-Butylbenzene	17.85	91	127023	5.3008	ug/L		99
96)	1,2-Dichlorobenzene	18.13	146	61283	4.9941	ug/L		99
97)	1,2-Dibromo-3-Chloropropan	19.13	75	3678	4.9512	ug/L		95
98)	1,2,4-Trichlorobenzene	20.27	180	46229	5.0298	ug/L		97
99)	Hexachlorobutadiene	20.42	225	22839	4.9321	ug/L		99
100)	Naphthalene	20.65	128	59029	4.8718	ug/L		100
101)	1,2,3-Trichlorobenzene	20.95	180	39037	4.8843	ug/L		99

(#) = qualifier out of range (m) = manual integration
8M405869.D 8260WT.M Fri Jul 03 13:29:54 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405869.D Vial: 7
Acq On : 2 Jul 2015 17:31 Operator: ADC/ JDS
Sample : WG529657-06 5.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 13:29 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\2\DATA\070215\8M405869.D Vial: 7
Acq On : 2 Jul 2015 17:31 Operator: ADC/ JDS
Sample : WG529657-06 5.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	5.0000	4.5074	9.9	100	0.00
3	P	Chloromethane	5.0000	5.2845	-5.7	100	0.00
4	C	Vinyl Chloride	5.0000	5.1538	-3.1	100	0.00
5	T	1,3-Butadiene	5.0000	5.2097	-4.2	100	0.00
6	T	Bromomethane	5.0000	4.7643	4.7	100	0.00
7	T	Chloroethane	5.0000	5.2519	-5.0	100	0.00
8	T	Trichlorofluoromethane	5.0000	5.2161	-4.3	100	-0.01
9	T	Diethyl ether	50.0000	50.0495	-0.1	100	0.00
10	T	Isoprene	5.0000	4.5229	9.5	100	0.00
11	T	Acrolein	25.0000	25.4878	-2.0	100	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	5.0000	4.8537	2.9	100	0.00
13	T	Acetone	5.0000	5.0679	-1.4	100	0.00
14	C	1,1-Dichloroethene	5.0000	4.9187	1.6	100	0.00
15	T	Tert-Butyl Alcohol	100.0000	100.6394	-0.6	100	0.00
16	T	Dimethyl Sulfide	5.0000	4.8860	2.3	100	0.00
17	T	Iodomethane	5.0000	4.4867	10.3	100	0.00
18	T	Methyl acetate	5.0000	5.2033	-4.1	100	0.00
19	T	Methylene Chloride	5.0000	4.9666	0.7	100	0.00
20	T	Carbon Disulfide	5.0000	5.2480	-5.0	100	0.00
21	T	Acrylonitrile	25.0000	23.4304	6.3	100	0.00
22	T	Methyl Tert Butyl Ether	5.0000	5.1432	-2.9	100	0.00
23	T	trans-1,2-Dichloroethene	5.0000	4.7289	5.4	100	0.00
24	T	n-Hexane	5.0000	4.7339	5.3	100	0.00
25	T	Diisopropyl ether	50.0000	50.5926	-1.2	100	0.00
26	T	Vinyl Acetate	5.0000	4.9725	0.6	100	0.00
27	P	1,1-Dichloroethane	5.0000	5.0902	-1.8	100	0.00
28	T	Ethyl-Tert-Butyl ether	50.0000	50.7761	-1.6	100	0.00
29	T	2-Butanone	5.0000	4.7525	4.9	100	0.00
30	T	Propionitrile	50.0000	47.2649	5.5	100	0.00
31	T	2,2-Dichloropropane	5.0000	5.3855	-7.7	100	0.00
32	T	cis-1,2-Dichloroethene	5.0000	5.2715	-5.4	100	0.00
33	C	Chloroform	5.0000	5.0543	-1.1	100	0.00
34		1-Bromopropane	5.0000	4.7660	4.7	100	0.00
35	T	Bromochloromethane	5.0000	4.9354	1.3	100	0.00
36	T	Tetrahydrofuran	50.0000	48.0252	3.9	100	0.00
37	S	Dibromofluoromethane	2.5000	2.6622	-6.5	100	0.00
38	T	1,1,1-Trichloroethane	5.0000	4.9466	1.1	100	0.00
39	T	Cyclohexane	5.0000	4.9162	1.7	100	0.00
40	T	1,1-Dichloropropene	5.0000	5.0058	-0.1	100	0.00
41	T	Tert-Amyl-Methyl ether	50.0000	50.0740	-0.1	100	0.00
42	T	Carbon Tetrachloride	5.0000	5.1603	-3.2	100	0.00
43	S	1,2-Dichloroethane-d4	2.5000	2.6124	-4.5	100	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	5.0000	5.0546	-1.1	100	0.00
46	T	Benzene	5.0000	5.1122	-2.2	100	-0.01
47	T	Trichloroethene	5.0000	4.8871	2.3	100	0.00
48	T	Methylcyclohexane	5.0000	4.6997	6.0	100	0.00
49	C	1,2-Dichloropropane	5.0000	4.8208	3.6	100	0.00
50	T	Bromodichloromethane	5.0000	4.9463	1.1	100	0.00
51	T	1,4-Dioxane	100.0000	87.9645	12.0	100	0.00
52	T	Dibromomethane	5.0000	5.0112	-0.2	100	0.00
53	T	2-Chloroethyl Vinyl Ether	5.0000	4.5180	9.6	100	-0.01
54	T	4-Methyl-2-Pentanone	5.0000	4.1269	17.5	100	-0.01

(#) = Out of Range
8M405869.D 8260WT.M Fri Jul 03 13:28:57 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070215\8M405869.D Vial: 7
Acq On : 2 Jul 2015 17:31 Operator: ADC/ JDS
Sample : WG529657-06 5.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	cis-1,3-Dichloropropene	5.0000	4.9186	1.6	100	0.00
56	T	Dimethyl Disulfide	5.0000	3.9734	20.5	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	2.5000	2.5160	-0.6	100	0.00
59	C	Toluene	5.0000	5.3044	-6.1	100	0.00
60	T	Ethyl Methacrylate	5.0000	4.5553	8.9	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	5.0000	4.8127	3.7	100	0.00
63	T	1,1,2-Trichloroethane	5.0000	5.1654	-3.3	100	0.00
64	T	2-Hexanone	5.0000	4.4993	10.0	100	0.00
65	T	1,3-Dichloropropane	5.0000	5.3638	-7.3	100	0.00
66	T	Tetrachloroethene	5.0000	5.2076	-4.2	100	0.00
67	T	Dibromochloromethane	5.0000	4.8596	2.8	100	0.00
68	T	1,2-Dibromoethane	5.0000	5.0709	-1.4	100	0.00
69	T	1-Chlorohexane	5.0000	4.8020	4.0	100	0.00
70	P	Chlorobenzene	5.0000	5.1181	-2.4	100	0.00
71	T	1,1,1,2-Tetrachloroethane	5.0000	5.0194	-0.4	100	0.00
72	C	Ethylbenzene	5.0000	4.8261	3.5	100	0.00
73	T	m-,p-Xylene	10.0000	10.0784	-0.8	100	0.00
74	T	o-Xylene	5.0000	5.1470	-2.9	100	0.00
75	T	Styrene	5.0000	4.9371	1.3	100	0.00
76	P	Bromoform	5.0000	4.5111	9.8	100	0.00
77	T	Isopropylbenzene	5.0000	5.3280	-6.6	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	5.0000	5.1592	-3.2	100	0.00
80	S	p-Bromofluorobenzene	2.5000	2.4933	0.3	100	0.00
81	T	1,2,3-Trichloropropane	5.0000	4.7328	5.3	100	0.00
82	T	trans-1,4-Dichloro-2-Butene	5.0000	4.4422	11.2	100	0.00
83	T	n-Propylbenzene	5.0000	5.4029	-8.1	100	0.00
84	T	Bromobenzene	5.0000	4.9835	0.3	100	0.00
85	T	1,3,5-Trimethylbenzene	5.0000	5.3282	-6.6	100	0.00
86	T	2-Chlorotoluene	5.0000	5.3428	-6.9	100	0.00
87	T	4-Chlorotoluene	5.0000	5.0964	-1.9	100	0.00
88	T	a-Methylstyrene	5.0000	4.5381	9.2	100	0.00
89	T	tert-Butylbenzene	5.0000	4.9600	0.8	100	0.00
90	T	1,2,4-Trimethylbenzene	5.0000	5.1647	-3.3	100	0.00
91	T	sec-Butylbenzene	5.0000	5.5788	-11.6	100	0.00
92	T	p-Isopropyltoluene	5.0000	5.4019	-8.0	100	0.00
93	T	1,3-Dichlorobenzene	5.0000	5.0655	-1.3	100	0.00
94	T	1,4-Dichlorobenzene	5.0000	4.9194	1.6	100	0.00
95	T	n-Butylbenzene	5.0000	5.3008	-6.0	100	0.00
96	T	1,2-Dichlorobenzene	5.0000	4.9942	0.1	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	5.0000	4.9512	1.0	100	0.00
98	T	1,2,4-Trichlorobenzene	5.0000	5.0298	-0.6	100	0.00
99	T	Hexachlorobutadiene	5.0000	4.9321	1.4	100	-0.01
100	T	Naphthalene	5.0000	4.8718	2.6	100	0.00
101	T	1,2,3-Trichlorobenzene	5.0000	4.8843	2.3	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M405869.D 8260WT.M Fri Jul 03 13:28:57 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405870.D Vial: 8
Acq On : 2 Jul 2015 18:00 Operator: ADC/ JDS
Sample : WG529657-07 20.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:29:54 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	639259	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	442814	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	245711	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.68	111	56139	9.4658	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 37.88%#			
43) 1,2-Dichloroethane-d4	10.31	65	57344	9.8853	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 39.56%#			
58) Toluene-d8	12.68	98	204545	9.3380	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 37.36%#			
80) p-Bromofluorobenzene	16.08	95	83889	9.5562	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 38.24%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	153712	21.9388	ug/L	99
3) Chloromethane	3.62	50	277378	22.0936	ug/L	99
4) Vinyl Chloride	3.84	62	215849	22.3326	ug/L	99
5) 1,3-Butadiene	3.90	54	183312	23.8611	ug/L	97
6) Bromomethane	4.74	94	87633	20.3236	ug/L	97
7) Chloroethane	4.90	64	90233	21.6977	ug/L	99
8) Trichlorofluoromethane	5.39	101	209089	21.4956	ug/L	99
9) Diethyl ether	5.91	59	309607	81.3538	ug/L	100
10) Isoprene	5.95	67	136969	18.8353	ug/L	97
11) Acrolein	6.15	56	9598	36.1771	ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	118638	22.2177	ug/L	99
13) Acetone	6.25	43	16185	20.6084	ug/L	100
14) 1,1-Dichloroethene	6.47	61	196025	20.9958	ug/L	100
15) Tert-Butyl Alcohol	6.59	59	33232	172.4755	ug/L	94
16) Dimethyl Sulfide	6.74	62	106973	21.0261	ug/L	100
17) Iodomethane	6.99	142	88048	19.6241	ug/L	99
18) Methyl acetate	7.01	43	62962	20.1893	ug/L	97
19) Methylene Chloride	7.26	84	118782	20.1737	ug/L	100
20) Carbon Disulfide	7.30	76	356082	21.2121	ug/L	100
21) Acrylonitrile	7.44	53	49367	42.7805	ug/L	95
22) Methyl Tert Butyl Ether	7.47	73	229123	21.2413	ug/L	100
23) trans-1,2-Dichloroethene	7.71	61	189869	21.0339	ug/L	98
24) n-Hexane	7.79	57	181474	20.3218	ug/L	98
25) Diisopropyl ether	8.14	45	1811785	82.5832	ug/L	100
26) Vinyl Acetate	8.30	43	105147	21.7952	ug/L	97
27) 1,1-Dichloroethane	8.33	63	243075	20.7473	ug/L	98
28) Ethyl-Tert-Butyl ether	8.70	59	1423515	83.6335	ug/L	99
29) 2-Butanone	8.89	43	26652	20.0921	ug/L	99
30) Propionitrile	8.99	54	34143	86.8388	ug/L	98
31) 2,2-Dichloropropane	9.11	77	203600	21.7652	ug/L	97
32) cis-1,2-Dichloroethene	9.18	96	136271	21.8540	ug/L	96
33) Chloroform	9.39	83	225565	21.1646	ug/L	99
34) 1-Bromopropane	9.52	122	19575	19.2669	ug/L	98
35) Bromochloromethane	9.61	130	66250	21.5104	ug/L	99
36) Tetrahydrofuran	9.63	42	71863	81.0995	ug/L	98
38) 1,1,1-Trichloroethane	9.91	97	213316	21.0871	ug/L	99
39) Cyclohexane	9.94	56	227026	19.1696	ug/L	99
40) 1,1-Dichloropropene	10.11	75	177873	21.9391	ug/L	99
41) Tert-Amyl-Methyl ether	10.21	73	1051198	83.0646	ug/L	100
42) Carbon Tetrachloride	10.26	117	198132	21.6247	ug/L	99

(#) = qualifier out of range (m) = manual integration
8M405870.D 8260WT.M Fri Jul 03 13:29:55 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405870.D Vial: 8
Acq On : 2 Jul 2015 18:00 Operator: ADC/ JDS
Sample : WG529657-07 20.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:29:54 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

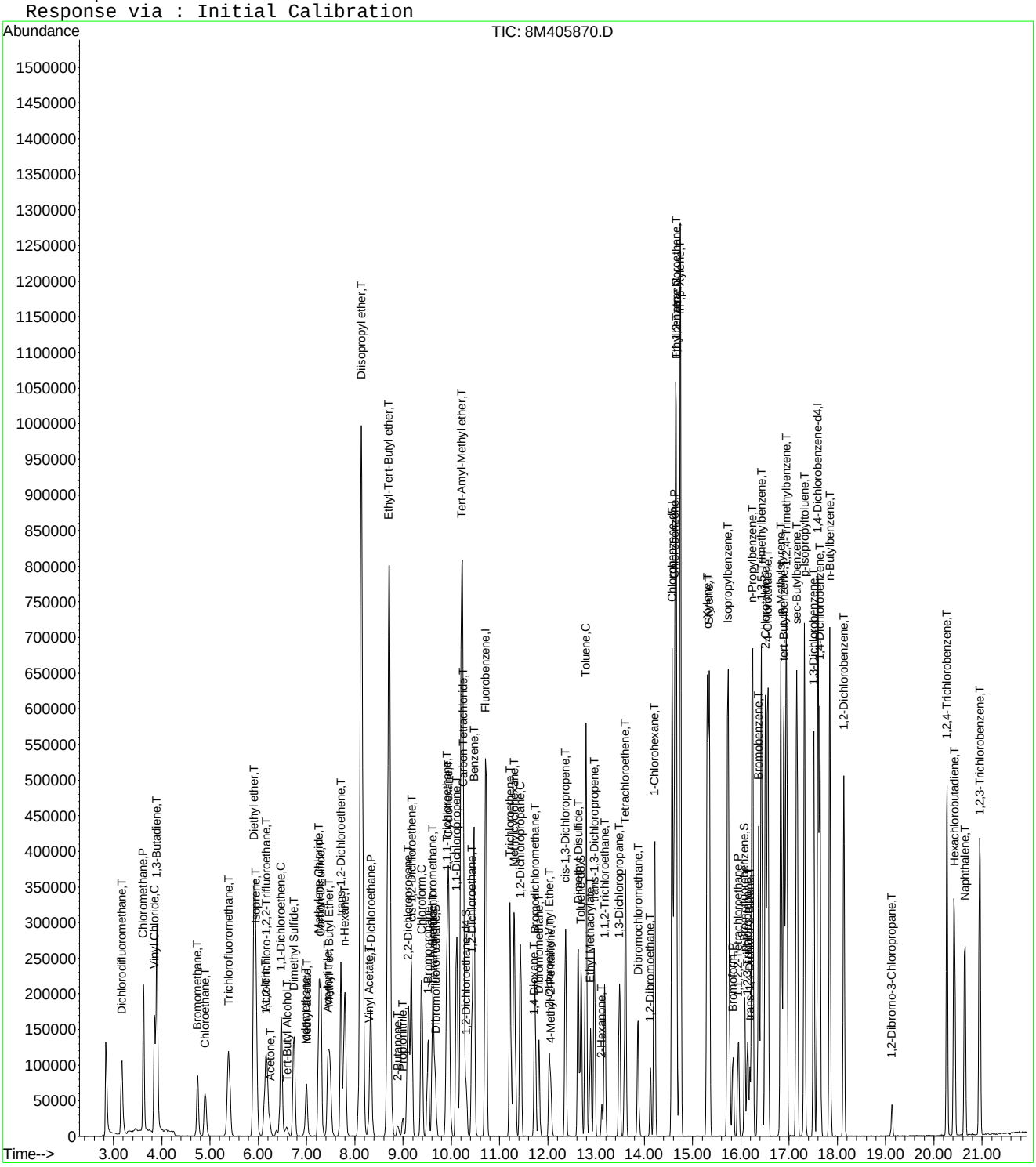
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	154383	21.3042	ug/L		98
46)	Benzene	10.47	78	491732	21.1545	ug/L		99
47)	Trichloroethene	11.22	130	128422	22.2070	ug/L		97
48)	Methylcyclohexane	11.30	83	193568	20.5336	ug/L		97
49)	1,2-Dichloropropane	11.43	63	133678	20.7309	ug/L		100
50)	Bromodichloromethane	11.73	83	172253	21.6349	ug/L		100
51)	1,4-Dioxane	11.71	88	3555	170.4374	ug/L		74
52)	Dibromomethane	11.82	93	62545	20.9854	ug/L		98
53)	2-Chloroethyl Vinyl Ether	12.03	63	56964	20.2135	ug/L		99
54)	4-Methyl-2-Pentanone	12.06	58	24980	20.8322	ug/L		95
55)	cis-1,3-Dichloropropene	12.36	75	190745	21.6021	ug/L		99
56)	Dimethyl Disulfide	12.63	79	97887	19.9118	ug/L		98
59)	Toluene	12.79	91	535650	21.9666	ug/L		100
60)	Ethyl Methacrylate	12.88	69	100445	22.3334	ug/L		99
62)	trans-1,3-Dichloropropene	12.96	75	161234	21.4351	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	81390	21.5953	ug/L		98
64)	2-Hexanone	13.12	58	21265	19.5290	ug/L	#	91
65)	1,3-Dichloropropane	13.48	76	143114	21.6725	ug/L		98
66)	Tetrachloroethene	13.61	164	107761	21.6310	ug/L		99
67)	Dibromochloromethane	13.87	129	111857	20.4512	ug/L		98
68)	1,2-Dibromoethane	14.12	107	76674	21.1384	ug/L		98
69)	1-Chlorohexane	14.22	91	168371	19.7962	ug/L		97
70)	Chlorobenzene	14.63	112	335942	20.5466	ug/L		98
71)	1,1,1,2-Tetrachloroethane	14.66	131	125172	21.0520	ug/L		98
72)	Ethylbenzene	14.66	106	193081	20.9909	ug/L		98
73)	m-,p-Xylene	14.74	106	462349	42.6794	ug/L		97
74)	o-Xylene	15.31	106	222871	21.2097	ug/L		100
75)	Styrene	15.34	104	373748	22.1296	ug/L		100
76)	Bromoform	15.84	173	65289	19.9292	ug/L		99
77)	Isopropylbenzene	15.74	105	590688	22.4087	ug/L		100
79)	1,1,2,2-Tetrachloroethane	15.94	83	88813	21.4192	ug/L		99
81)	1,2,3-Trichloropropane	16.14	110	25728	21.6099	ug/L		95
82)	trans-1,4-Dichloro-2-Buten	16.19	53	30478	20.5840	ug/L		96
83)	n-Propylbenzene	16.24	91	751719	22.5096	ug/L		99
84)	Bromobenzene	16.37	156	140279	20.5867	ug/L		99
85)	1,3,5-Trimethylbenzene	16.43	105	513121	22.0310	ug/L		100
86)	2-Chlorotoluene	16.51	91	461458	21.8819	ug/L		99
87)	4-Chlorotoluene	16.56	91	459862	21.5285	ug/L		100
88)	a-Methylstyrene	16.83	118	254569	20.6022	ug/L		99
89)	tert-Butylbenzene	16.89	134	102564	21.6081	ug/L		100
90)	1,2,4-Trimethylbenzene	16.94	105	527671	22.2260	ug/L		98
91)	sec-Butylbenzene	17.16	105	636164	22.9214	ug/L		100
92)	p-Isopropyltoluene	17.32	119	550540	22.8261	ug/L		99
93)	1,3-Dichlorobenzene	17.51	146	291173	21.4670	ug/L		99
94)	1,4-Dichlorobenzene	17.64	146	284517	20.5594	ug/L		100
95)	n-Butylbenzene	17.84	91	544924	23.0398	ug/L		99
96)	1,2-Dichlorobenzene	18.13	146	258696	21.3597	ug/L		100
97)	1,2-Dibromo-3-Chloropropan	19.13	75	14884	20.3003	ug/L		98
98)	1,2,4-Trichlorobenzene	20.27	180	191669	21.1285	ug/L		99
99)	Hexachlorobutadiene	20.43	225	92971	20.4407	ug/L		99
100)	Naphthalene	20.65	128	263967	22.0728	ug/L		98
101)	1,2,3-Trichlorobenzene	20.96	180	164145	20.8085	ug/L		99

(#) = qualifier out of range (m) = manual integration
8M405870.D 8260WT.M Fri Jul 03 13:29:55 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405870.D Vial: 8
Acq On : 2 Jul 2015 18:00 Operator: ADC/ JDS
Sample : WG529657-07 20.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 13:29 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405871.D Vial: 9
Acq On : 2 Jul 2015 18:28 Operator: ADC/ JDS
Sample : WG529657-08 50.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:29:56 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	681421	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	469448	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	262811	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	159710	25.2631	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.04%			
43) 1,2-Dichloroethane-d4	10.31	65	161531	26.1229	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 104.48%			
58) Toluene-d8	12.69	98	599329	25.8086	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.24%			
80) p-Bromofluorobenzene	16.08	95	237463	25.2905	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	389978	51.9859	ug/L	100
3) Chloromethane	3.62	50	665040	49.6941	ug/L	100
4) Vinyl Chloride	3.85	62	530859	51.5265	ug/L	100
5) 1,3-Butadiene	3.89	54	448058	54.7136	ug/L	100
6) Bromomethane	4.74	94	237073	51.5794	ug/L	100
7) Chloroethane	4.90	64	234147	52.8200	ug/L	100
8) Trichlorofluoromethane	5.39	101	532616	51.3681	ug/L	100
9) Diethyl ether	5.91	59	405412	99.9367	ug/L	100
10) Isoprene	5.96	67	367780	47.0628	ug/L	100
11) Acrolein	6.15	56	13160	46.5340	ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	303311	53.2875	ug/L	100
13) Acetone	6.24	43	44606	53.2826	ug/L	100
14) 1,1-Dichloroethene	6.47	61	505894	50.8325	ug/L	100
15) Tert-Butyl Alcohol	6.59	59	41115	200.1855	ug/L	100
16) Dimethyl Sulfide	6.74	62	281249	51.8606	ug/L	100
17) Iodomethane	6.99	142	242258	49.8211	ug/L	100
18) Methyl acetate	7.01	43	161339	48.5338	ug/L	100
19) Methylene Chloride	7.26	84	311529	49.6357	ug/L	100
20) Carbon Disulfide	7.30	76	928548	51.8918	ug/L	100
21) Acrylonitrile	7.44	53	67794	55.1140	ug/L	100
22) Methyl Tert Butyl Ether	7.48	73	607519	52.8365	ug/L	100
23) trans-1,2-Dichloroethene	7.71	61	491716	51.1024	ug/L	100
24) n-Hexane	7.80	57	461093	48.4392	ug/L	100
25) Diisopropyl ether	8.14	45	2383193	101.9073	ug/L	100
26) Vinyl Acetate	8.30	43	280935	54.6301	ug/L	100
27) 1,1-Dichloroethane	8.33	63	640883	51.3171	ug/L	100
28) Ethyl-Tert-Butyl ether	8.71	59	1857778	102.3937	ug/L	100
29) 2-Butanone	8.89	43	70806	50.0758	ug/L	100
30) Propionitrile	9.00	54	44166	105.3808	ug/L	100
31) 2,2-Dichloropropane	9.11	77	519781	52.1274	ug/L	100
32) cis-1,2-Dichloroethene	9.17	96	348567	52.4414	ug/L	100
33) Chloroform	9.38	83	588170	51.7728	ug/L	100
34) 1-Bromopropane	9.52	122	52302	47.2855	ug/L	100
35) Bromochloromethane	9.62	130	175466	53.4463	ug/L	100
36) Tetrahydrofuran	9.64	42	93027	98.4879	ug/L	100
38) 1,1,1-Trichloroethane	9.92	97	552775	51.2630	ug/L	100
39) Cyclohexane	9.95	56	592796	46.1843	ug/L	100
40) 1,1-Dichloropropene	10.11	75	456714	52.8462	ug/L	100
41) Tert-Amyl-Methyl ether	10.22	73	1384729	102.6497	ug/L	100
42) Carbon Tetrachloride	10.26	117	511275	52.3494	ug/L	100

(#) = qualifier out of range (m) = manual integration
8M405871.D 8260WT.M Fri Jul 03 13:29:56 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405871.D Vial: 9
Acq On : 2 Jul 2015 18:28 Operator: ADC/ JDS
Sample : WG529657-08 50.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:29:56 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

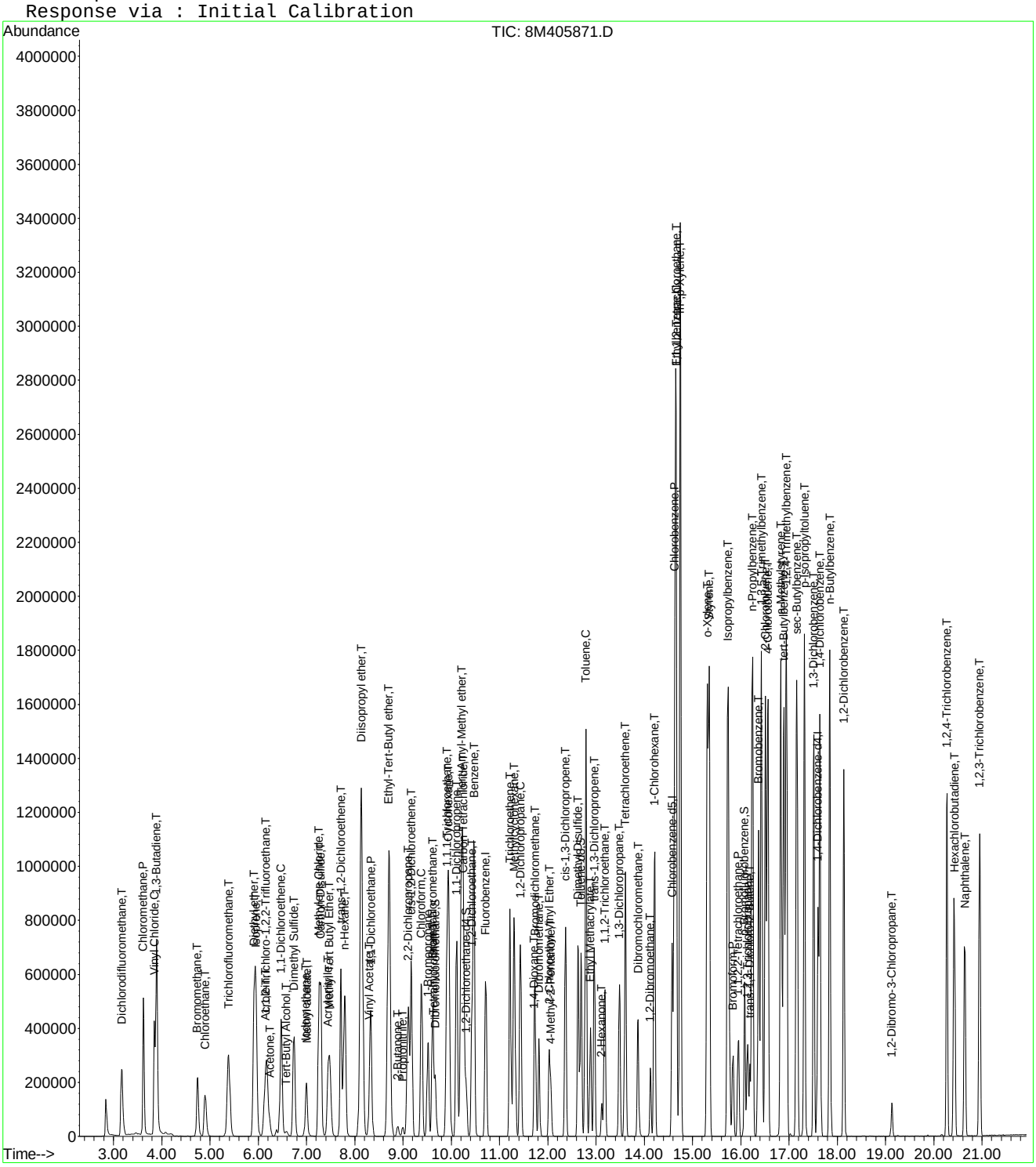
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	409802	53.0520	ug/L		100
46)	Benzene	10.47	78	1261133	50.8974	ug/L		100
47)	Trichloroethene	11.22	130	323812	52.5297	ug/L		100
48)	Methylcyclohexane	11.30	83	486667	48.4310	ug/L		100
49)	1,2-Dichloropropane	11.44	63	355974	51.7891	ug/L		100
50)	Bromodichloromethane	11.73	83	456798	53.8237	ug/L		100
51)	1,4-Dioxane	11.71	88	4740	207.3160	ug/L		100
52)	Dibromomethane	11.82	93	166040	52.2636	ug/L		100
53)	2-Chloroethyl Vinyl Ether	12.03	63	153326	51.0410	ug/L		100
54)	4-Methyl-2-Pentanone	12.07	58	66573	52.0836	ug/L		100
55)	cis-1,3-Dichloropropene	12.37	75	507723	53.9424	ug/L		100
56)	Dimethyl Disulfide	12.62	79	267511	51.0492	ug/L		100
59)	Toluene	12.79	91	1376643	53.2522	ug/L		100
60)	Ethyl Methacrylate	12.88	69	266217	55.8336	ug/L		100
62)	trans-1,3-Dichloropropene	12.97	75	431688	54.1344	ug/L		100
63)	1,1,2-Trichloroethane	13.18	97	216233	54.1182	ug/L		100
64)	2-Hexanone	13.12	58	60783	52.6540	ug/L	#	100
65)	1,3-Dichloropropane	13.48	76	372481	53.2064	ug/L		100
66)	Tetrachloroethene	13.61	164	279274	52.8786	ug/L		100
67)	Dibromochloromethane	13.88	129	293895	50.3802	ug/L		100
68)	1,2-Dibromoethane	14.12	107	205332	53.3968	ug/L		100
69)	1-Chlorohexane	14.22	91	441978	48.7804	ug/L		100
70)	Chlorobenzene	14.63	112	886529	51.1449	ug/L		100
71)	1,1,1,2-Tetrachloroethane	14.66	131	335557	53.2336	ug/L		100
72)	Ethylbenzene	14.66	106	501642	51.4421	ug/L		100
73)	m-,p-Xylene	14.74	106	1205912	105.0021	ug/L		100
74)	o-Xylene	15.31	106	578697	51.9477	ug/L		100
75)	Styrene	15.34	104	986225	55.0813	ug/L		100
76)	Bromoform	15.84	173	174909	49.6503	ug/L		100
77)	Isopropylbenzene	15.74	105	1515798	54.2416	ug/L		100
79)	1,1,2,2-Tetrachloroethane	15.94	83	239916	54.0964	ug/L		100
81)	1,2,3-Trichloropropane	16.14	110	65873	51.7290	ug/L		100
82)	trans-1,4-Dichloro-2-Buten	16.19	53	84574	52.5495	ug/L		100
83)	n-Propylbenzene	16.24	91	1929248	54.0108	ug/L		100
84)	Bromobenzene	16.37	156	368991	50.6279	ug/L		100
85)	1,3,5-Trimethylbenzene	16.43	105	1321893	53.0630	ug/L		100
86)	2-Chlorotoluene	16.51	91	1185151	52.5420	ug/L		100
87)	4-Chlorotoluene	16.56	91	1188760	52.0309	ug/L		100
88)	a-Methylstyrene	16.83	118	679466	51.4110	ug/L		100
89)	tert-Butylbenzene	16.89	134	267278	52.6461	ug/L		100
90)	1,2,4-Trimethylbenzene	16.95	105	1357202	53.4470	ug/L		100
91)	sec-Butylbenzene	17.16	105	1637020	55.1451	ug/L		100
92)	p-Isopropyltoluene	17.32	119	1399324	54.2428	ug/L		100
93)	1,3-Dichlorobenzene	17.51	146	752090	51.8408	ug/L		100
94)	1,4-Dichlorobenzene	17.64	146	738948	49.9225	ug/L		100
95)	n-Butylbenzene	17.85	91	1369840	54.1493	ug/L		100
96)	1,2-Dichlorobenzene	18.14	146	665113	51.3431	ug/L		100
97)	1,2-Dibromo-3-Chloropropan	19.13	75	42190	53.7990	ug/L		100
98)	1,2,4-Trichlorobenzene	20.28	180	499676	51.4976	ug/L		100
99)	Hexachlorobutadiene	20.43	225	243550	50.1091	ug/L		100
100)	Naphthalene	20.65	128	689404	53.8968	ug/L		100
101)	1,2,3-Trichlorobenzene	20.95	180	425489	50.4292	ug/L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405871.D Vial: 9
Acq On : 2 Jul 2015 18:28 Operator: ADC/ JDS
Sample : WG529657-08 50.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 13:29 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



8M405871.D 8260WT.M Fri Jul 03 13:29:56 2015 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405872.D Vial: 10
Acq On : 2 Jul 2015 18:56 Operator: ADC/ JDS
Sample : WG529657-09 100.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:29:57 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	720166	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	501837	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	282168	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	336378	50.3461	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 201.40%#			
43) 1,2-Dichloroethane-d4	10.31	65	331690	50.7552	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 203.04%#			
58) Toluene-d8	12.69	98	1271293	51.2118	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 204.84%#			
80) p-Bromofluorobenzene	16.08	95	502785	49.8746	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 199.48%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.16	85	840148	105.7969	ug/L	99
3) Chloromethane	3.62	50	1385532	97.9617	ug/L	99
4) Vinyl Chloride	3.85	62	1102699	101.2724	ug/L	99
5) 1,3-Butadiene	3.89	54	831902	96.1205	ug/L	90
6) Bromomethane	4.74	94	529371	108.9777	ug/L	99
7) Chloroethane	4.90	64	511698	109.2210	ug/L	99
8) Trichlorofluoromethane	5.39	101	1150752	105.0132	ug/L	100
9) Diethyl ether	5.91	59	862487	201.1702	ug/L	99
10) Isoprene	5.95	67	794529	95.9381	ug/L	100
11) Acrolein	6.14	56	30824	103.1303	ug/L	93
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	661305	109.9314	ug/L	99
13) Acetone	6.26	43	84233	95.2045	ug/L	94
14) 1,1-Dichloroethene	6.47	61	1111736	105.6980	ug/L	99
15) Tert-Butyl Alcohol	6.59	59	85603	394.3702	ug/L	98
16) Dimethyl Sulfide	6.74	62	612234	106.8186	ug/L	96
17) Iodomethane	6.99	142	522363	101.0983	ug/L	99
18) Methyl acetate	7.00	43	349813	99.5689	ug/L	99
19) Methylene Chloride	7.26	84	674785	101.7288	ug/L	99
20) Carbon Disulfide	7.30	76	2006424	106.0962	ug/L	99
21) Acrylonitrile	7.44	53	147238	113.2591	ug/L	98
22) Methyl Tert Butyl Ether	7.48	73	1254973	103.2741	ug/L	99
23) trans-1,2-Dichloroethene	7.71	61	1075358	105.7457	ug/L	99
24) n-Hexane	7.79	57	996271	99.0305	ug/L	99
25) Diisopropyl ether	8.14	45	5066761	205.0027	ug/L	99
26) Vinyl Acetate	8.30	43	583001	107.2700	ug/L	100
27) 1,1-Dichloroethane	8.33	63	1405014	106.4502	ug/L	100
28) Ethyl-Tert-Butyl ether	8.71	59	3933582	205.1400	ug/L	99
29) 2-Butanone	8.89	43	152725	102.1999	ug/L	99
30) Propionitrile	9.00	54	93973	212.1580	ug/L	100
31) 2,2-Dichloropropane	9.11	77	1141692	108.3372	ug/L	100
32) cis-1,2-Dichloroethene	9.17	96	756972	107.7584	ug/L	100
33) Chloroform	9.38	83	1256910	104.6853	ug/L	99
34) 1-Bromopropane	9.52	122	114481	97.2156	ug/L	97
35) Bromochloromethane	9.62	130	379295	109.3162	ug/L	98
36) Tetrahydrofuran	9.64	42	200522	200.8717	ug/L	97
38) 1,1,1-Trichloroethane	9.92	97	1234675	108.3405	ug/L	98
39) Cyclohexane	9.95	56	1288360	94.4115	ug/L	100
40) 1,1-Dichloropropene	10.11	75	1013199	110.9295	ug/L	100
41) Tert-Amyl-Methyl ether	10.22	73	2918496	204.7080	ug/L	99
42) Carbon Tetrachloride	10.26	117	1121747	108.6764	ug/L	100

(#) = qualifier out of range (m) = manual integration
8M405872.D 8260WT.M Fri Jul 03 13:29:57 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405872.D Vial: 10
Acq On : 2 Jul 2015 18:56 Operator: ADC/ JDS
Sample : WG529657-09 100.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:29:57 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

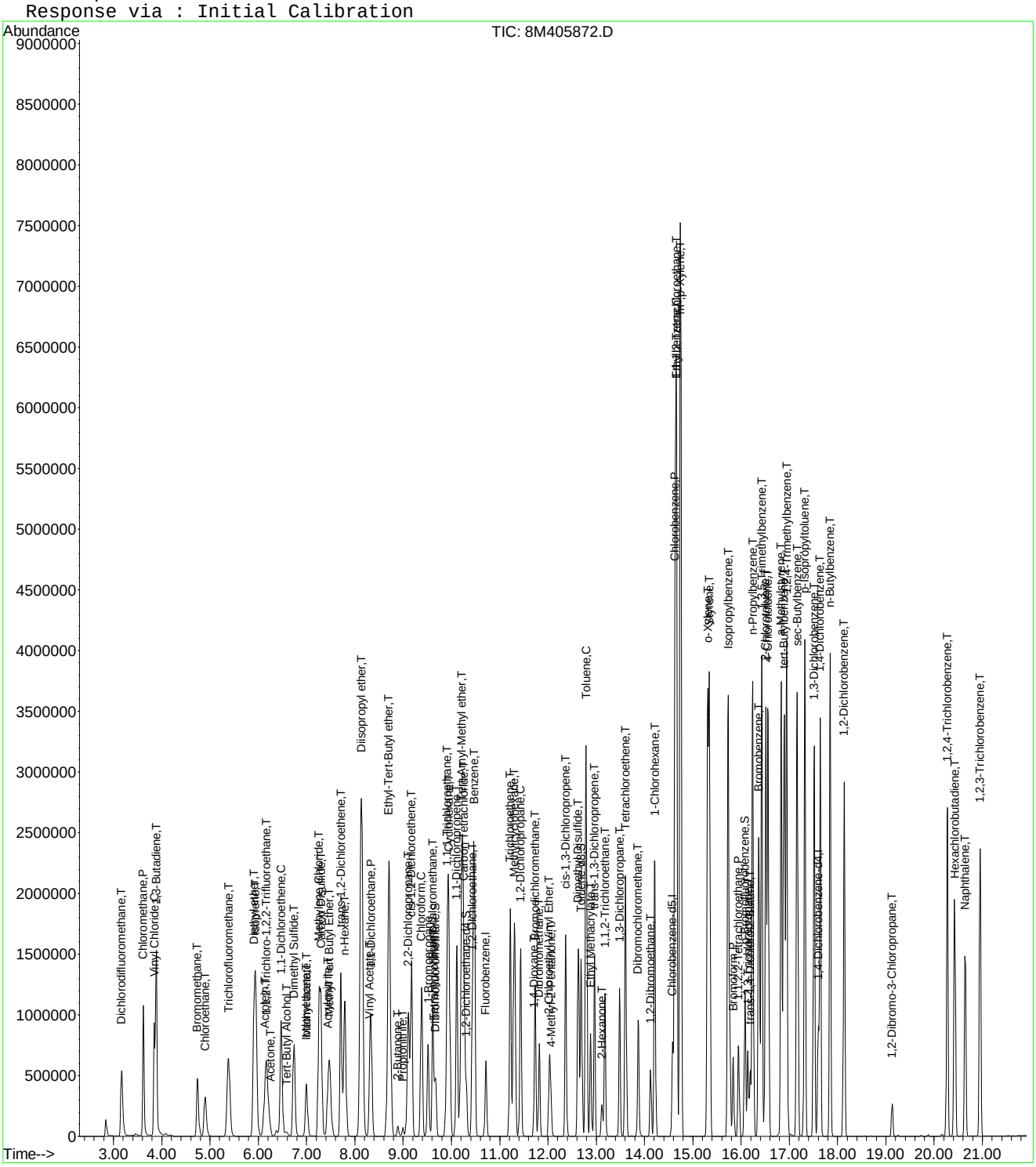
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	861987	105.5873 ug/L		99
46)	Benzene	10.47	78	2731704	104.3161 ug/L		99
47)	Trichloroethene	11.22	130	725826	111.4108 ug/L		97
48)	Methylcyclohexane	11.30	83	1051206	98.9834 ug/L		98
49)	1,2-Dichloropropane	11.44	63	776712	106.9210 ug/L		99
50)	Bromodichloromethane	11.74	83	974557	108.6524 ug/L		99
51)	1,4-Dioxane	11.71	88	9268	363.6472 ug/L		88
52)	Dibromomethane	11.82	93	347205	103.4084 ug/L		99
53)	2-Chloroethyl Vinyl Ether	12.02	63	327278	103.0868 ug/L		100
54)	4-Methyl-2-Pentanone	12.07	58	137881	102.0682 ug/L		98
55)	cis-1,3-Dichloropropene	12.37	75	1077962	108.3652 ug/L		99
56)	Dimethyl Disulfide	12.62	79	569492	102.8296 ug/L		99
59)	Toluene	12.79	91	2956040	106.9673 ug/L		99
60)	Ethyl Methacrylate	12.88	69	557359	109.3501 ug/L		100
62)	trans-1,3-Dichloropropene	12.97	75	921633	108.1150 ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	459636	107.6119 ug/L		99
64)	2-Hexanone	13.12	58	127032	102.9406 ug/L	#	99
65)	1,3-Dichloropropane	13.48	76	803042	107.3058 ug/L		98
66)	Tetrachloroethene	13.61	164	618475	109.5460 ug/L		99
67)	Dibromochloromethane	13.87	129	636217	101.8114 ug/L		100
68)	1,2-Dibromoethane	14.12	107	436006	106.0660 ug/L		99
69)	1-Chlorohexane	14.22	91	943524	97.2543 ug/L		97
70)	Chlorobenzene	14.63	112	1929608	104.1365 ug/L		97
71)	1,1,1,2-Tetrachloroethane	14.66	131	748292	111.0493 ug/L		100
72)	Ethylbenzene	14.66	106	1131664	108.5593 ug/L		93
73)	m-,p-Xylene	14.74	106	2633651	214.5188 ug/L		93
74)	o-Xylene	15.31	106	1276570	107.1974 ug/L		97
75)	Styrene	15.34	104	2128848	111.2238 ug/L		99
76)	Bromoform	15.84	173	383461	101.3361 ug/L		99
77)	Isopropylbenzene	15.74	105	3222242	107.8635 ug/L		98
79)	1,1,2,2-Tetrachloroethane	15.94	83	496239	104.2163 ug/L		98
81)	1,2,3-Trichloropropane	16.14	110	140989	103.1212 ug/L		95
82)	trans-1,4-Dichloro-2-Buten	16.19	53	173592	99.9734 ug/L		98
83)	n-Propylbenzene	16.24	91	4026774	104.9991 ug/L		98
84)	Bromobenzene	16.37	156	792123	101.2285 ug/L		100
85)	1,3,5-Trimethylbenzene	16.43	105	2826457	105.6753 ug/L		98
86)	2-Chlorotoluene	16.51	91	2563576	105.8559 ug/L		100
87)	4-Chlorotoluene	16.55	91	2505015	102.1205 ug/L		99
88)	a-Methylstyrene	16.83	118	1432728	100.9690 ug/L		99
89)	tert-Butylbenzene	16.89	134	586063	107.5184 ug/L		98
90)	1,2,4-Trimethylbenzene	16.95	105	2881062	105.6737 ug/L		98
91)	sec-Butylbenzene	17.16	105	3471824	108.9296 ug/L		98
92)	p-Isopropyltoluene	17.32	119	2992626	108.0469 ug/L		98
93)	1,3-Dichlorobenzene	17.52	146	1624462	104.2911 ug/L		99
94)	1,4-Dichlorobenzene	17.64	146	1594864	100.3557 ug/L		99
95)	n-Butylbenzene	17.85	91	2912434	107.2297 ug/L		99
96)	1,2-Dichlorobenzene	18.14	146	1409759	101.3601 ug/L		99
97)	1,2-Dibromo-3-Chloropropan	19.13	75	86448	102.6727 ug/L		98
98)	1,2,4-Trichlorobenzene	20.28	180	1077039	103.3869 ug/L		100
99)	Hexachlorobutadiene	20.43	225	529428	101.4869 ug/L		99
100)	Naphthalene	20.64	128	1435450	104.5232 ug/L		100
101)	1,2,3-Trichlorobenzene	20.95	180	899588	99.3055 ug/L		99

(#) = qualifier out of range (m) = manual integration
8M405872.D 8260WT.M Fri Jul 03 13:29:57 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405872.D Vial: 10
Acq On : 2 Jul 2015 18:56 Operator: ADC/ JDS
Sample : WG529657-09 100.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 13:29 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405873.D Vial: 11
Acq On : 2 Jul 2015 19:25 Operator: ADC/ JDS
Sample : WG529657-10 200.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:29:58 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	748891	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	532685	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	294393	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	696259	100.2127	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 400.84%#			
43) 1,2-Dichloroethane-d4	10.31	65	684495	100.7238	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 402.88%#			
58) Toluene-d8	12.69	98	2586814	98.1707	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 392.68%#			
80) p-Bromofluorobenzene	16.08	95	1038010	98.6913	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 394.76%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.16	85	1644554	199.0022	ug/L	98
3) Chloromethane	3.62	50	2629989	178.8165	ug/L	98
4) Vinyl Chloride	3.85	62	2083595	184.0184	ug/L	98
5) 1,3-Butadiene	3.89	54	1649043	183.2271	ug/L	89
6) Bromomethane	4.74	94	1102644	218.2864	ug/L	99
7) Chloroethane	4.90	64	1055938	216.7429	ug/L	99
8) Trichlorofluoromethane	5.38	101	2327435	204.2460	ug/L	100
9) Diethyl ether	5.91	59	1632	0.3661	ug/L #	60
10) Isoprene	5.95	67	1733572	201.0200	ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	1343896	214.8323	ug/L	99
13) Acetone	6.24	43	181201	196.9471	ug/L	95
14) 1,1-Dichloroethene	6.47	61	2270600	207.5964	ug/L	99
15) Tert-Butyl Alcohol	6.65	59	229	1.0145	ug/L #	58
16) Dimethyl Sulfide	6.74	62	1300588	218.2143	ug/L	99
17) Iodomethane	6.99	142	1116057	207.1617	ug/L	100
18) Methyl acetate	7.00	43	695016	190.2376	ug/L	99
19) Methylene Chloride	7.26	84	1381843	200.3323	ug/L	100
20) Carbon Disulfide	7.30	76	4326147	219.9846	ug/L	99
21) Acrylonitrile	7.48	53	27408	20.2742	ug/L #	34
22) Methyl Tert Butyl Ether	7.48	73	2513699	198.9228	ug/L	99
23) trans-1,2-Dichloroethene	7.71	61	2203660	208.3859	ug/L	99
24) n-Hexane	7.79	57	2165043	206.9532	ug/L	99
25) Diisopropyl ether	8.14	45	4897	0.1905	ug/L #	81
26) Vinyl Acetate	8.30	43	1187424	210.1013	ug/L	100
27) 1,1-Dichloroethane	8.33	63	2852230	207.8090	ug/L	99
29) 2-Butanone	8.89	43	306468	197.2149	ug/L	100
30) Propionitrile	8.92	54	528	1.1463	ug/L #	38
31) 2,2-Dichloropropane	9.11	77	2273541	207.4653	ug/L	99
32) cis-1,2-Dichloroethene	9.17	96	1541080	210.9650	ug/L	99
33) Chloroform	9.38	83	2535457	203.0729	ug/L	98
34) 1-Bromopropane	9.52	122	249676	203.1546	ug/L	98
35) Bromochloromethane	9.62	130	764182	211.7962	ug/L	99
36) Tetrahydrofuran	9.65	42	895	0.8622	ug/L #	40
38) 1,1,1-Trichloroethane	9.92	97	2510106	211.8089	ug/L	99
39) Cyclohexane	9.95	56	2890765	203.0936	ug/L	99
40) 1,1-Dichloropropene	10.11	75	2055410	216.4037	ug/L	100
42) Carbon Tetrachloride	10.26	117	2216756	206.5248	ug/L	100
45) 1,2-Dichloroethane	10.43	62	1763461	207.7259	ug/L	99
46) Benzene	10.47	78	5274622	193.6970	ug/L	95
47) Trichloroethene	11.22	130	1475579	217.8067	ug/L	98

(#) = qualifier out of range (m) = manual integration
8M405873.D 8260WT.M Fri Jul 03 13:29:58 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405873.D Vial: 11
Acq On : 2 Jul 2015 19:25 Operator: ADC/ JDS
Sample : WG529657-10 200.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:29:58 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

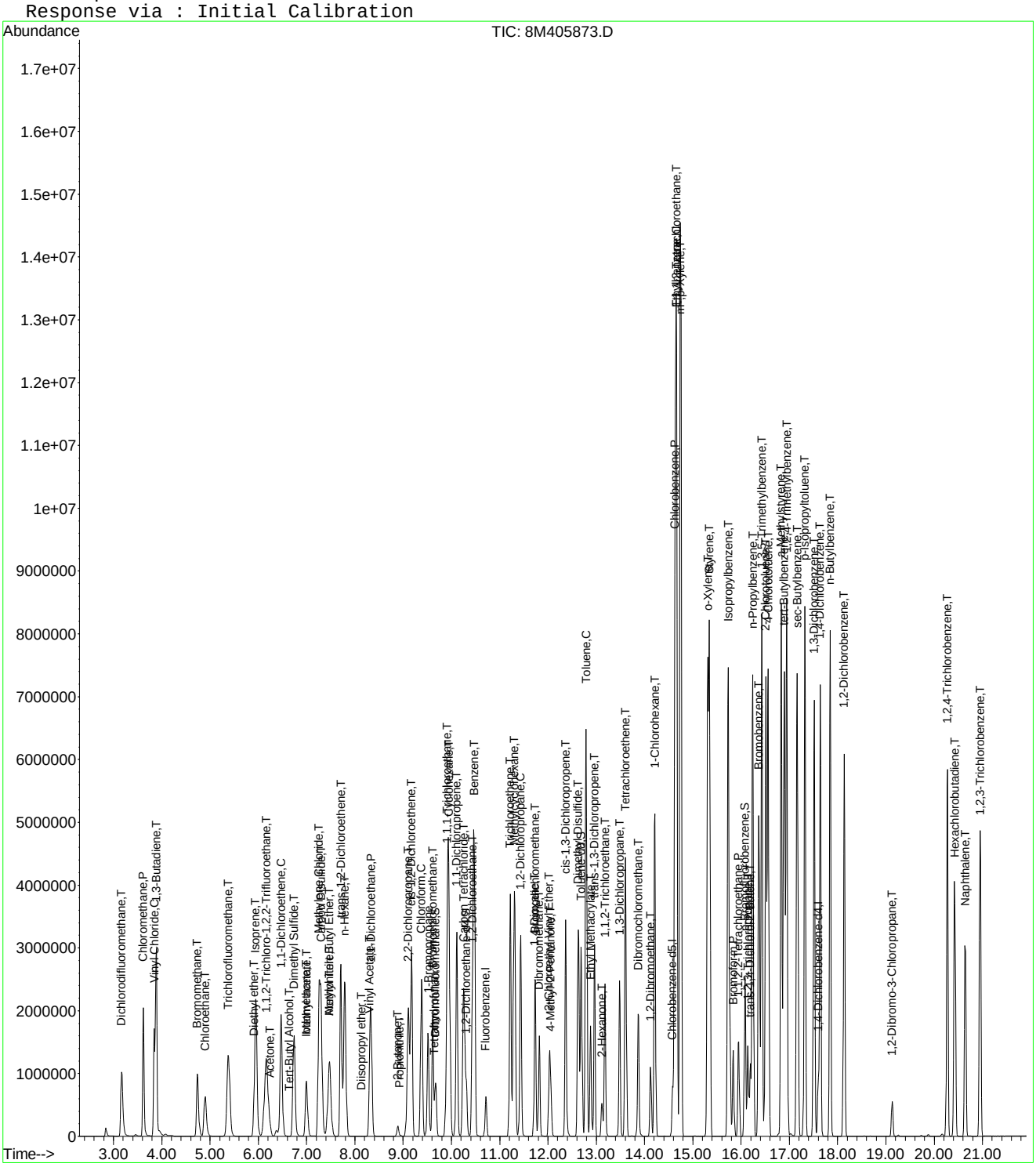
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	Methylcyclohexane	11.30	83	2294424	207.7602	ug/L		98
49)	1,2-Dichloropropane	11.44	63	1614932	213.7820	ug/L		98
50)	Bromodichloromethane	11.74	83	1977066	211.9665	ug/L		99
51)	1,4-Dioxane	11.72	88	4062	166.8126	ug/L	#	50
52)	Dibromomethane	11.82	93	725235	207.7124	ug/L		98
53)	2-Chloroethyl Vinyl Ether	12.02	63	665772	201.6628	ug/L		99
54)	4-Methyl-2-Pentanone	12.06	58	287760	204.8474	ug/L		99
55)	cis-1,3-Dichloropropene	12.37	75	2193251	212.0257	ug/L		97
56)	Dimethyl Disulfide	12.62	79	1237280	214.8387	ug/L		97
59)	Toluene	12.79	91	5631497	191.9804	ug/L		94
60)	Ethyl Methacrylate	12.88	69	1140022	210.7123	ug/L		99
62)	trans-1,3-Dichloropropene	12.97	75	1867882	206.4284	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	933451	205.8875	ug/L		99
64)	2-Hexanone	13.12	58	260821	199.1171	ug/L	#	97
65)	1,3-Dichloropropane	13.48	76	1609220	202.5781	ug/L		99
66)	Tetrachloroethene	13.61	164	1266300	211.3019	ug/L		98
67)	Dibromochloromethane	13.88	129	1304807	196.5191	ug/L		99
68)	1,2-Dibromoethane	14.12	107	891229	204.2514	ug/L		100
69)	1-Chlorohexane	14.22	91	2063999	200.2574	ug/L		96
70)	Chlorobenzene	14.63	112	3897673	198.1672	ug/L		92
71)	1,1,1,2-Tetrachloroethane	14.66	131	1590589	222.3796	ug/L		100
72)	Ethylbenzene	14.66	106	2391184	216.0999	ug/L		78
73)	m-,p-Xylene	14.74	106	5249894	402.8561	ug/L		73
74)	o-Xylene	15.31	106	2666577	210.9532	ug/L		89
75)	Styrene	15.34	104	4292225	211.2652	ug/L		93
76)	Bromoform	15.84	173	787159	195.5390	ug/L		98
77)	Isopropylbenzene	15.74	105	6139543	193.6174	ug/L		93
79)	1,1,2,2-Tetrachloroethane	15.94	83	1013975	204.1043	ug/L		99
81)	1,2,3-Trichloropropane	16.14	110	281448	197.3064	ug/L		97
82)	trans-1,4-Dichloro-2-Buten	16.19	53	361287	198.8964	ug/L		97
83)	n-Propylbenzene	16.24	91	7217495	180.3827	ug/L		90
84)	Bromobenzene	16.37	156	1642907	201.2350	ug/L		100
85)	1,3,5-Trimethylbenzene	16.43	105	5502700	197.1910	ug/L		93
86)	2-Chlorotoluene	16.51	91	4946921	195.7871	ug/L		96
87)	4-Chlorotoluene	16.56	91	4929863	192.6272	ug/L		94
88)	a-Methylstyrene	16.83	118	3067396	207.1927	ug/L		97
89)	tert-Butylbenzene	16.89	134	1238461	217.7715	ug/L		93
90)	1,2,4-Trimethylbenzene	16.95	105	5609540	197.2068	ug/L		93
91)	sec-Butylbenzene	17.16	105	6519543	196.0586	ug/L		93
92)	p-Isopropyltoluene	17.32	119	5734308	198.4363	ug/L		93
93)	1,3-Dichlorobenzene	17.51	146	3274136	201.4720	ug/L		96
94)	1,4-Dichlorobenzene	17.64	146	3209618	193.5763	ug/L		98
95)	n-Butylbenzene	17.85	91	5610323	197.9826	ug/L		95
96)	1,2-Dichlorobenzene	18.14	146	2868818	197.6994	ug/L		97
97)	1,2-Dibromo-3-Chloropropan	19.13	75	179816	204.6957	ug/L		96
98)	1,2,4-Trichlorobenzene	20.28	180	2216705	203.9494	ug/L		99
99)	Hexachlorobutadiene	20.43	225	1089554	200.2161	ug/L		98
100)	Naphthalene	20.65	128	2938426	205.0783	ug/L		99
101)	1,2,3-Trichlorobenzene	20.96	180	1854669	196.2350	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M405873.D 8260WT.M Fri Jul 03 13:29:58 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405873.D Vial: 11
Acq On : 2 Jul 2015 19:25 Operator: ADC/ JDS
Sample : WG529657-10 200.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 13:29 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



8M405873.D 8260WT.M Fri Jul 03 13:29:59 2015 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405874.D Vial: 12
Acq On : 2 Jul 2015 19:55 Operator: ADC/ JDS
Sample : WG529657-11 300.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:29:59 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	797608	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	549406	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	314967	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	1132138	152.9961	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 612.00%#			
43) 1,2-Dichloroethane-d4	10.31	65	1099357	151.8902	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 607.56%#			
58) Toluene-d8	12.69	98	4048355	148.9610	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 595.84%#			
80) p-Bromofluorobenzene	16.08	95	1680105	149.3057	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 597.24%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.16	85	2573090	292.2654	ug/L	97
3) Chloromethane	3.62	50	3929926	250.8806	ug/L	95
4) Vinyl Chloride	3.85	62	3125501	259.1772	ug/L	96
5) 1,3-Butadiene	3.89	54	2464681	257.1270	ug/L	88
6) Bromomethane	4.74	94	1838514	341.7334	ug/L	98
7) Chloroethane	4.89	64	1726406	332.7197	ug/L	99
8) Trichlorofluoromethane	5.38	101	3833374	315.8539	ug/L	100
9) Diethyl ether	5.91	59	1468943	309.3564	ug/L	99
10) Isoprene	5.95	67	2829298	307.9044	ug/L	99
11) Acrolein	6.15	56	60055	181.4219	ug/L	96
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	2213185	332.1856	ug/L	100
13) Acetone	6.25	43	282325	288.1160	ug/L	93
14) 1,1-Dichloroethene	6.47	61	3754555	322.3048	ug/L	99
15) Tert-Butyl Alcohol	6.59	59	133897	556.9665	ug/L	98
16) Dimethyl Sulfide	6.74	62	2096125	330.2096	ug/L	99
17) Iodomethane	6.99	142	1681255	292.7940	ug/L	100
18) Methyl acetate	7.00	43	1205503	309.8126	ug/L	99
19) Methylene Chloride	7.26	84	2246194	305.7516	ug/L	100
20) Carbon Disulfide	7.30	76	6632129	316.6454	ug/L	97
21) Acrylonitrile	7.45	53	273694	190.0910	ug/L	97
22) Methyl Tert Butyl Ether	7.48	73	4031032	299.5136	ug/L	97
23) trans-1,2-Dichloroethene	7.70	61	3636499	322.8765	ug/L	99
24) n-Hexane	7.79	57	3487283	312.9838	ug/L	99
25) Diisopropyl ether	8.14	45	7999262	292.2282	ug/L	97
26) Vinyl Acetate	8.30	43	1890409	314.0565	ug/L	99
27) 1,1-Dichloroethane	8.33	63	4610071	315.3672	ug/L	97
28) Ethyl-Tert-Butyl ether	8.71	59	6259531	294.7455	ug/L	98
29) 2-Butanone	8.89	43	514048	310.5899	ug/L	100
30) Propionitrile	9.00	54	164358	335.0351	ug/L	100
31) 2,2-Dichloropropane	9.11	77	3674318	314.8100	ug/L	98
32) cis-1,2-Dichloroethene	9.17	96	2535589	325.9066	ug/L	99
33) Chloroform	9.38	83	4039531	303.7776	ug/L	97
34) 1-Bromopropane	9.51	122	397237	303.1486	ug/L	98
35) Bromochloromethane	9.62	130	1229458	319.9368	ug/L	99
36) Tetrahydrofuran	9.64	42	342848	310.0999	ug/L	98
38) 1,1,1-Trichloroethane	9.92	97	4051944	321.0293	ug/L	100
39) Cyclohexane	9.95	56	4659638	307.0984	ug/L	98
40) 1,1-Dichloropropene	10.11	75	3338221	329.9973	ug/L	99
41) Tert-Amyl-Methyl ether	10.22	73	4756201	301.2166	ug/L	98
42) Carbon Tetrachloride	10.26	117	3643888	318.7488	ug/L	99

(#) = qualifier out of range (m) = manual integration
8M405874.D 8260WT.M Fri Jul 03 13:29:59 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405874.D Vial: 12
Acq On : 2 Jul 2015 19:55 Operator: ADC/ JDS
Sample : WG529657-11 300.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:29:59 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

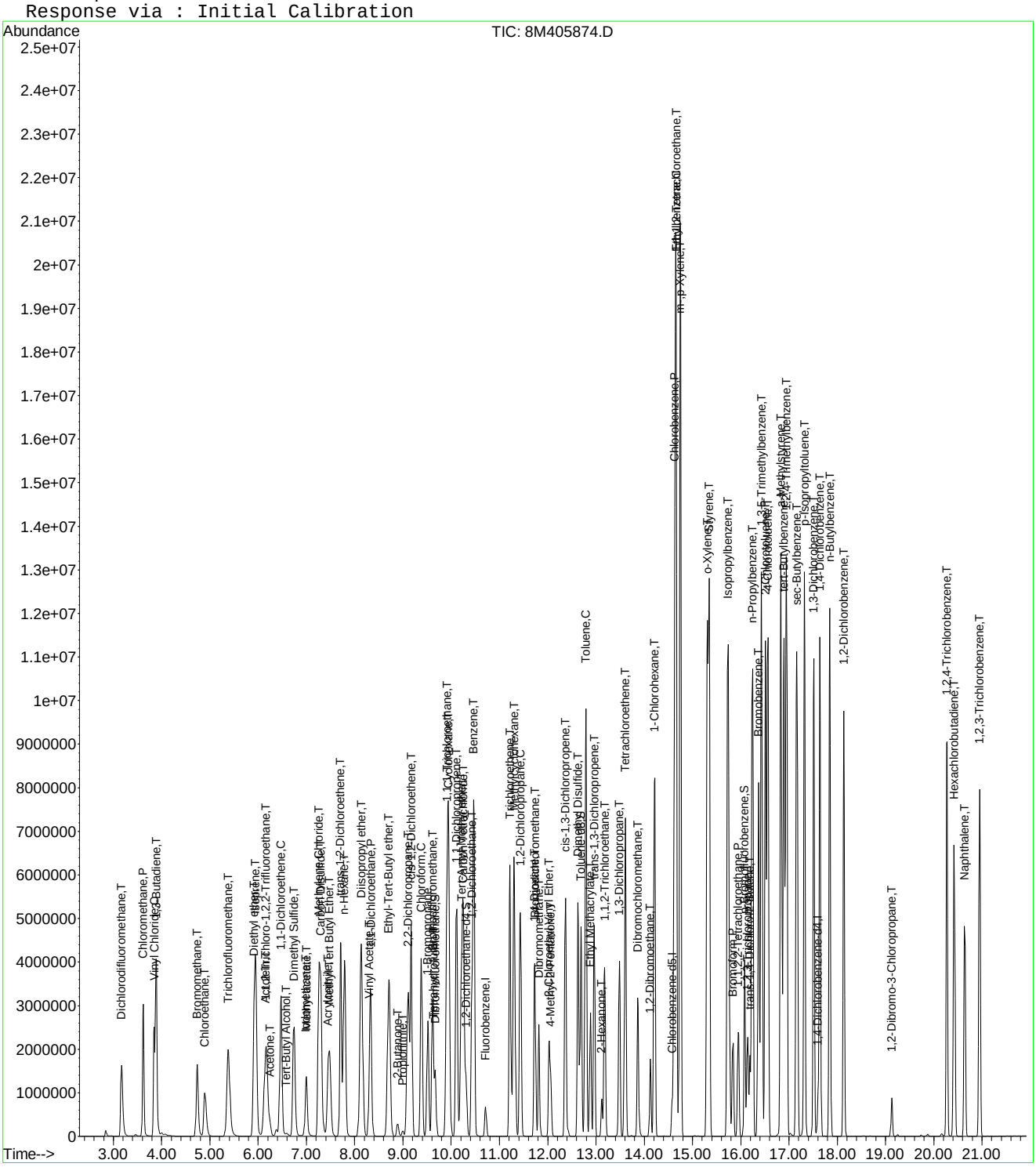
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	2832933	313.3216 ug/L		98
46)	Benzene	10.46	78	7895425	272.2301 ug/L		88
47)	Trichloroethene	11.22	130	2399428	332.5413 ug/L		99
48)	Methylcyclohexane	11.30	83	3656058	310.8357 ug/L		97
49)	1,2-Dichloropropane	11.44	63	2607943	324.1486 ug/L		99
50)	Bromodichloromethane	11.74	83	3159060	318.0044 ug/L		98
51)	1,4-Dioxane	11.73	88	18003	620.1450 ug/L		78
52)	Dibromomethane	11.82	93	1159787	311.8825 ug/L		99
53)	2-Chloroethyl Vinyl Ether	12.03	63	1081994	307.7189 ug/L		99
54)	4-Methyl-2-Pentanone	12.06	58	469672	313.9236 ug/L		99
55)	cis-1,3-Dichloropropene	12.37	75	3494693	317.2038 ug/L		96
56)	Dimethyl Disulfide	12.63	79	1998846	325.8765 ug/L		94
59)	Toluene	12.79	91	8059812	266.4004 ug/L		87
60)	Ethyl Methacrylate	12.88	69	1831456	328.2087 ug/L		99
62)	trans-1,3-Dichloropropene	12.97	75	2950296	316.1278 ug/L		97
63)	1,1,2-Trichloroethane	13.18	97	1499935	320.7657 ug/L		98
64)	2-Hexanone	13.12	58	423787	313.6827 ug/L	#	97
65)	1,3-Dichloropropane	13.48	76	2567658	313.3945 ug/L		99
66)	Tetrachloroethene	13.61	164	2067145	334.4374 ug/L		98
67)	Dibromochloromethane	13.87	129	2064194	301.3196 ug/L		98
68)	1,2-Dibromoethane	14.12	107	1418622	315.2242 ug/L		100
69)	1-Chlorohexane	14.22	91	3238408	304.5569 ug/L		93
70)	Chlorobenzene	14.63	112	5912420	291.4531 ug/L		86
71)	1,1,1,2-Tetrachloroethane	14.66	131	2590317	351.1292 ug/L		99
72)	Ethylbenzene	14.66	106	3887097	340.5996 ug/L		57
73)	m-,p-Xylene	14.74	106	7523036	559.7184 ug/L		61
74)	o-Xylene	15.31	106	4216097	323.3849 ug/L		78
75)	Styrene	15.34	104	6409052	305.8555 ug/L		85
76)	Bromoform	15.84	173	1262826	303.8940 ug/L		99
77)	Isopropylbenzene	15.74	105	8607030	263.1715 ug/L		84
79)	1,1,2,2-Tetrachloroethane	15.94	83	1601005	301.2173 ug/L		98
81)	1,2,3-Trichloropropane	16.14	110	446560	292.6073 ug/L		97
82)	trans-1,4-Dichloro-2-Buten	16.19	53	580865	298.6216 ug/L		97
83)	n-Propylbenzene	16.24	91	9565844	223.4571 ug/L	#	79
84)	Bromobenzene	16.37	156	2600745	297.7493 ug/L		99
85)	1,3,5-Trimethylbenzene	16.43	105	7834997	262.4294 ug/L		85
86)	2-Chlorotoluene	16.51	91	6894282	255.0355 ug/L		87
87)	4-Chlorotoluene	16.56	91	6990024	255.2842 ug/L		86
88)	a-Methylstyrene	16.83	118	4696655	296.5211 ug/L		93
89)	tert-Butylbenzene	16.90	134	2005070	329.5419 ug/L		86
90)	1,2,4-Trimethylbenzene	16.95	105	7915696	260.1035 ug/L		83
91)	sec-Butylbenzene	17.16	105	8970045	252.1307 ug/L		84
92)	p-Isopropyltoluene	17.32	119	8048894	260.3387 ug/L		84
93)	1,3-Dichlorobenzene	17.52	146	4982606	286.5742 ug/L		91
94)	1,4-Dichlorobenzene	17.64	146	4890719	275.6982 ug/L		93
95)	n-Butylbenzene	17.85	91	7832900	258.3593 ug/L		87
96)	1,2-Dichlorobenzene	18.14	146	4397663	283.2610 ug/L		92
97)	1,2-Dibromo-3-Chloropropan	19.13	75	287811	306.2317 ug/L		97
98)	1,2,4-Trichlorobenzene	20.28	180	3450312	296.7121 ug/L		99
99)	Hexachlorobutadiene	20.42	225	1736966	298.3504 ug/L		97
100)	Naphthalene	20.64	128	4421909	288.4544 ug/L		98
101)	1,2,3-Trichlorobenzene	20.95	180	2874630	284.2853 ug/L		98

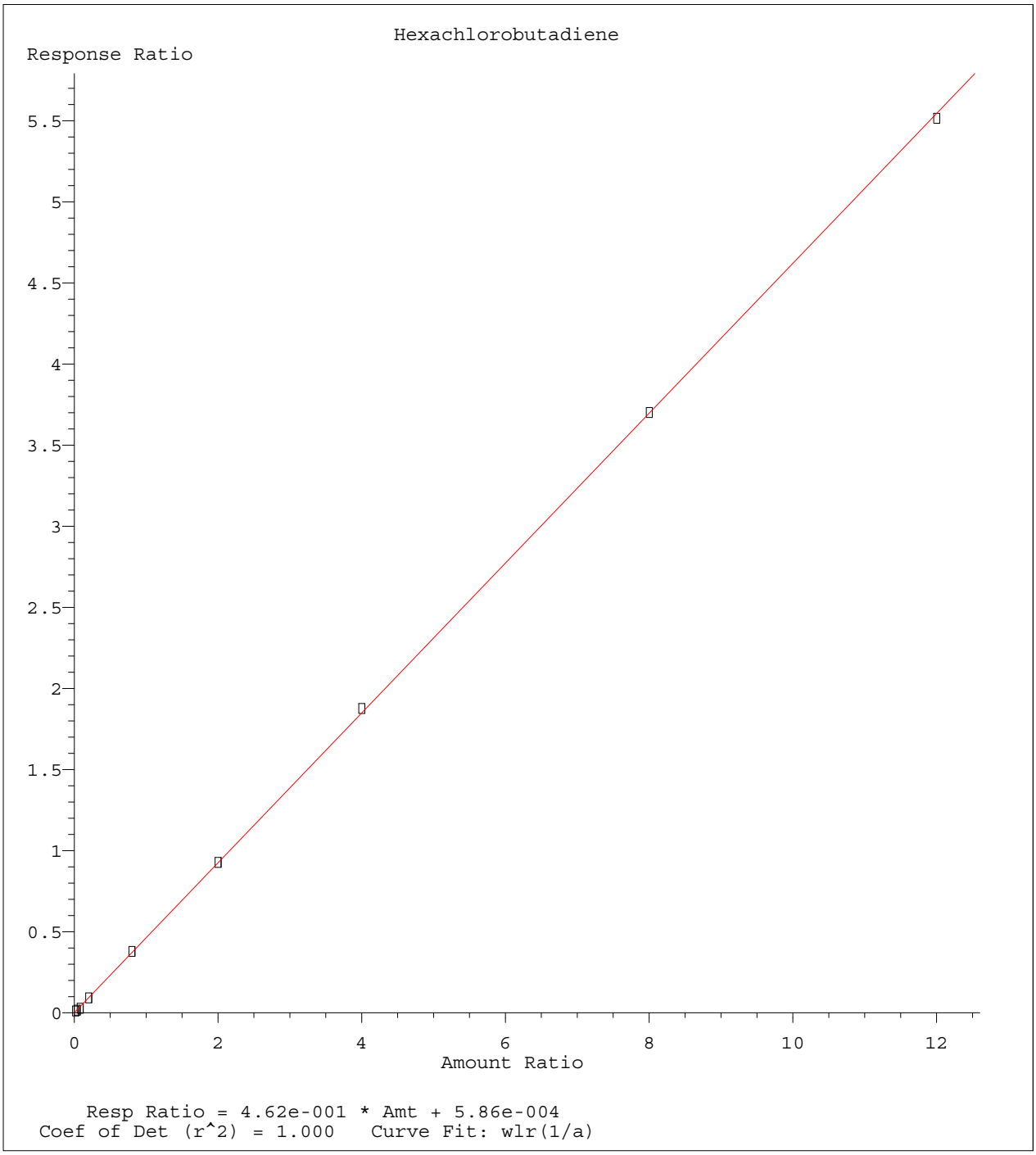
(#) = qualifier out of range (m) = manual integration
8M405874.D 8260WT.M Fri Jul 03 13:30:00 2015 Page 2

Quantitation Report (Not Reviewed)

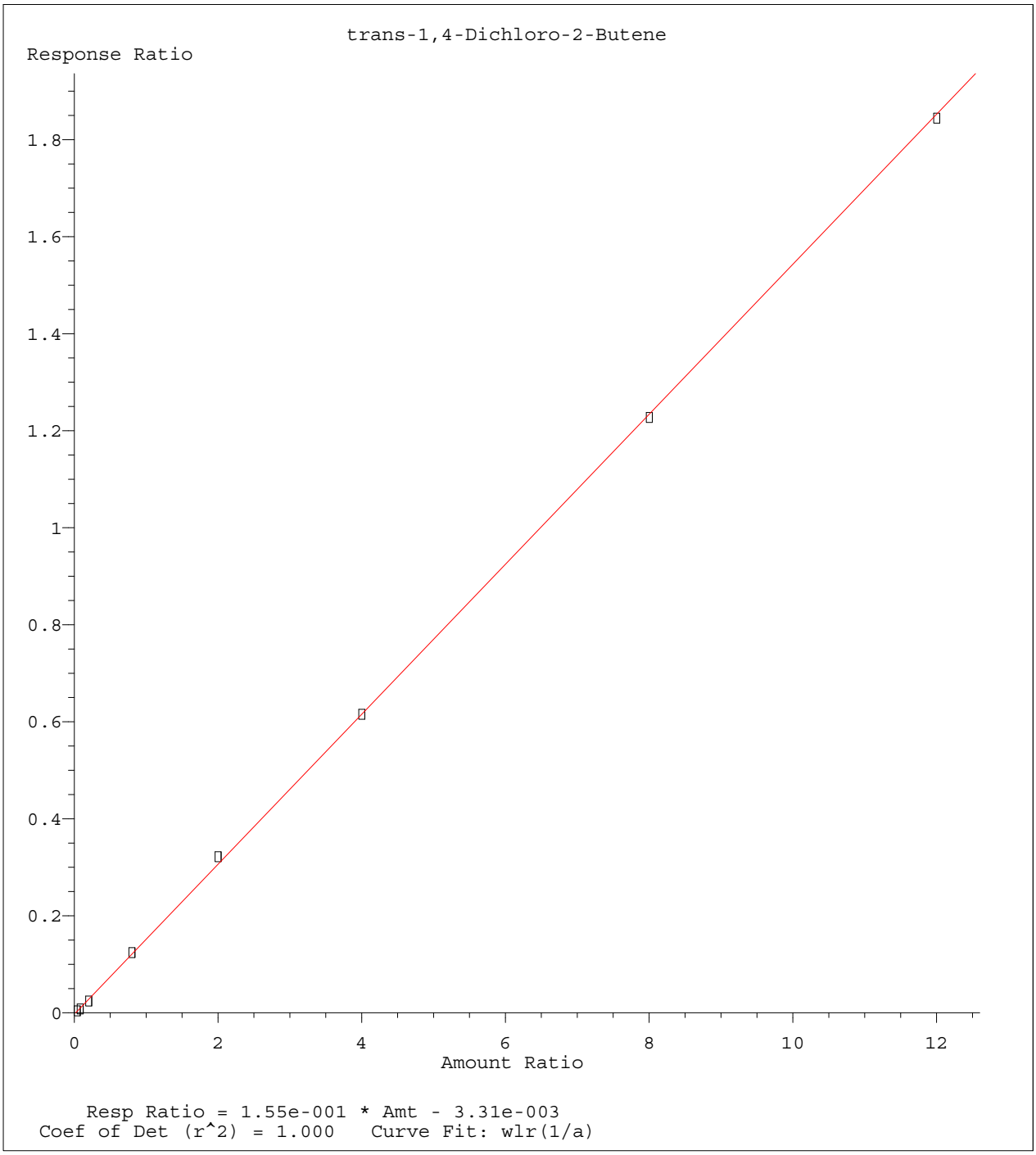
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Acq On : 2 Jul 2015 19:55 Operator: ADC/ JDS
Sample : WG529657-11 300.0ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 13:29 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

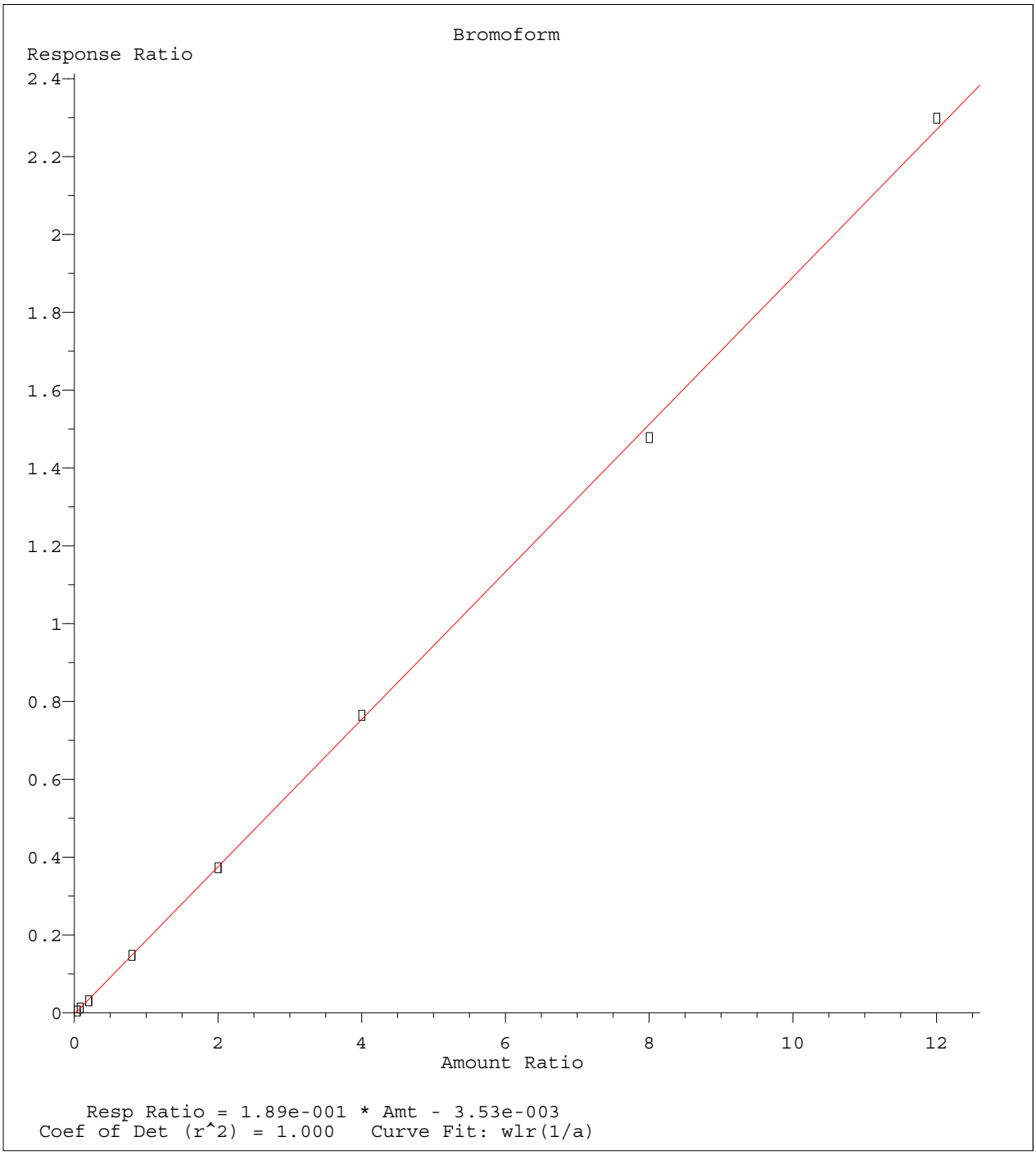




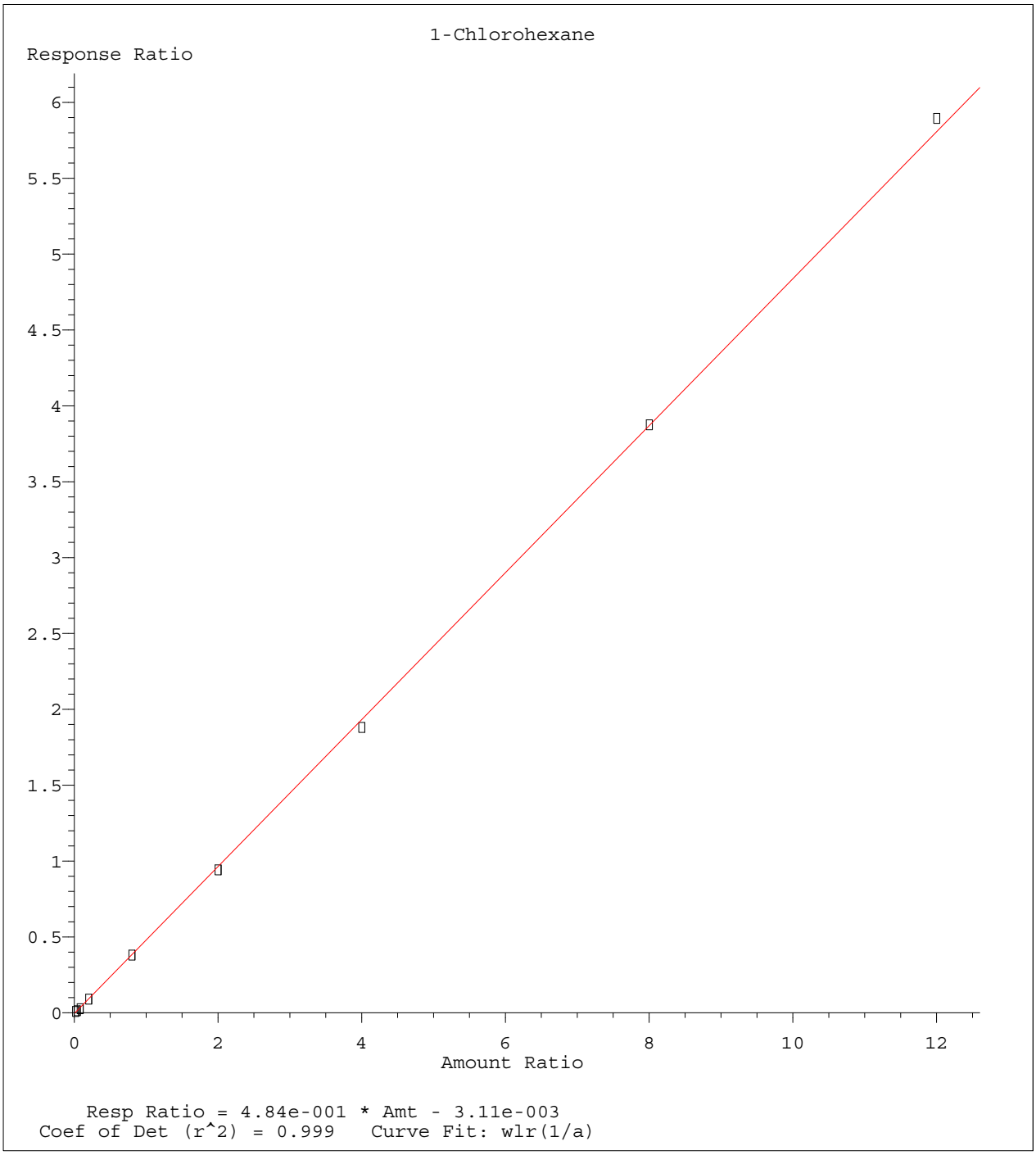
Method Name: C:\MSDCHEM\2\METHODS\8260WT.M
Calibration Table Last Updated: Fri Jul 03 13:27:47 2015



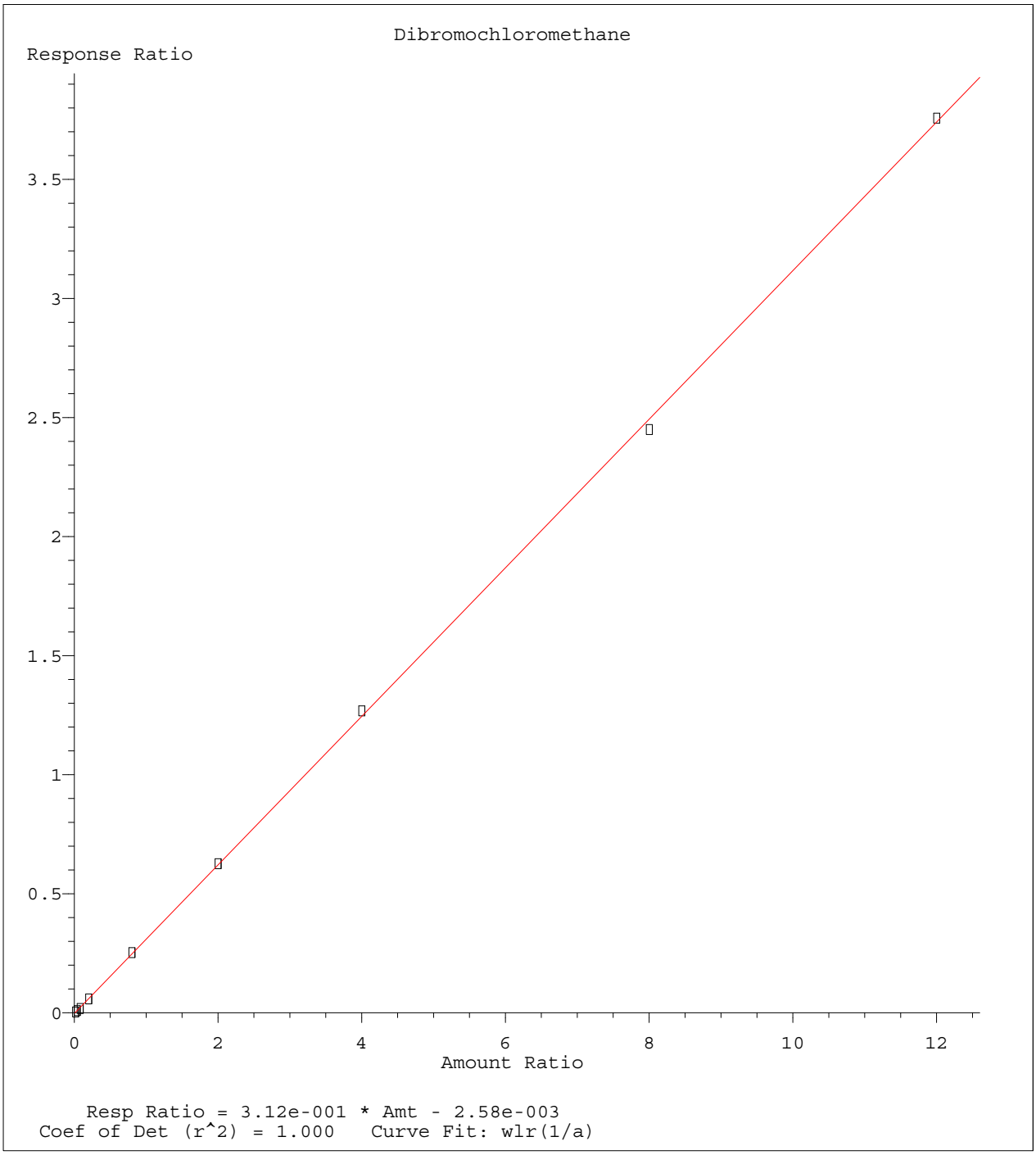
Method Name: C:\MSDCHEM\2\METHODS\8260WT.M
Calibration Table Last Updated: Fri Jul 03 13:27:47 2015



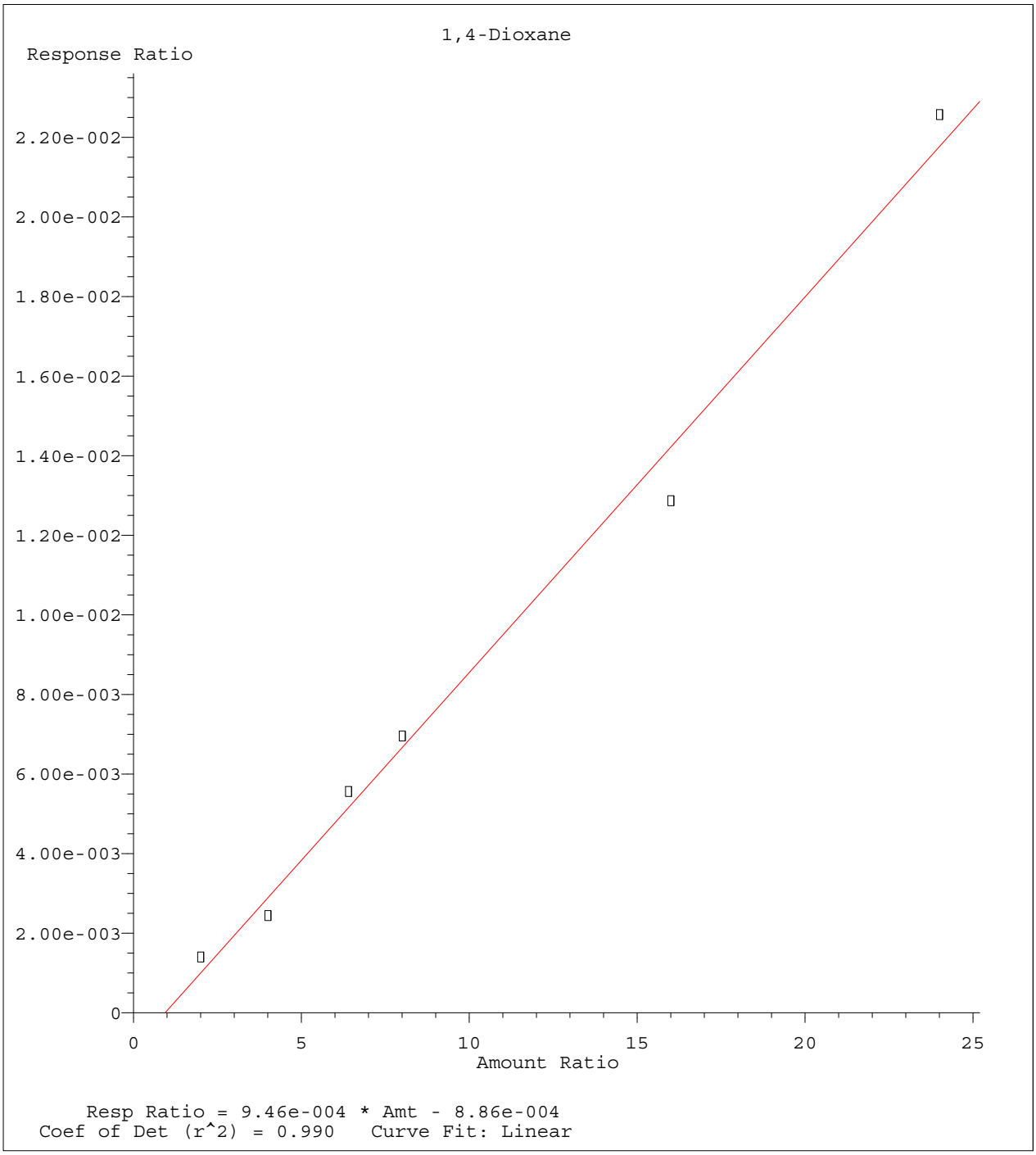
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Calibration Table Last Updated: Fri Jul 03 13:27:47 2015



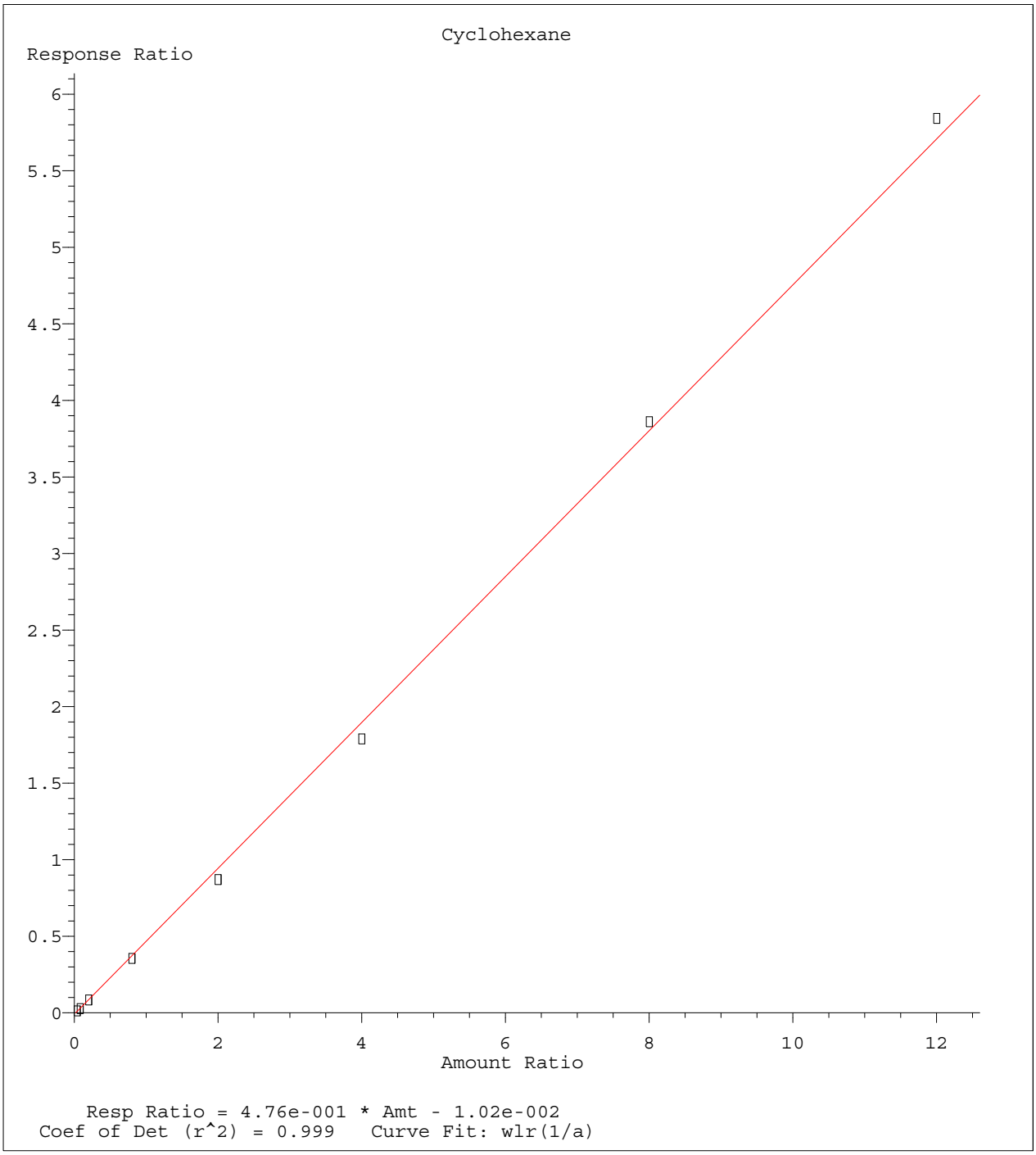
Method Name: C:\MSDCHEM\2\METHODS\8260WT.M
Calibration Table Last Updated: Fri Jul 03 13:27:47 2015



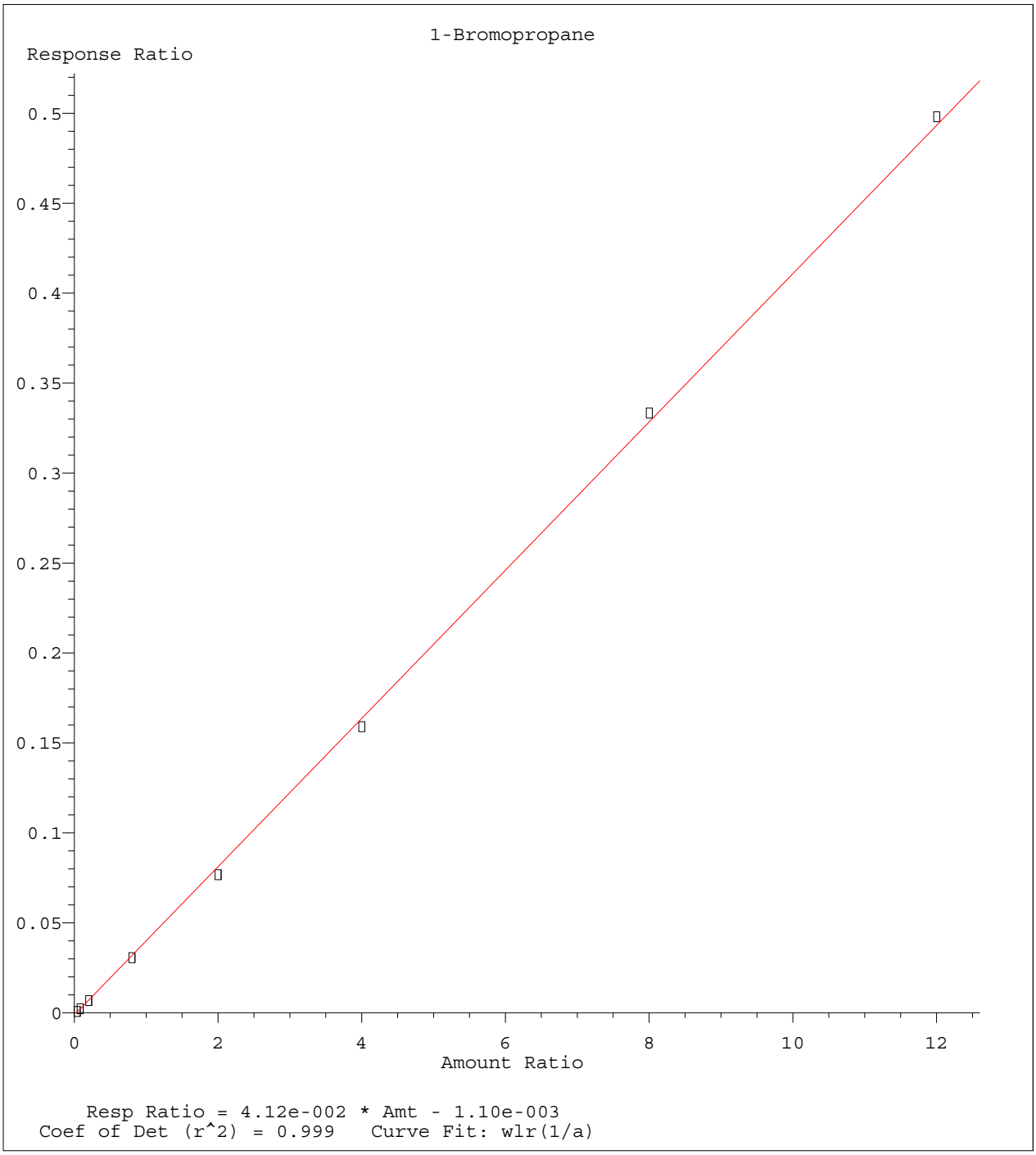
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Calibration Table Last Updated: Fri Jul 03 13:27:47 2015



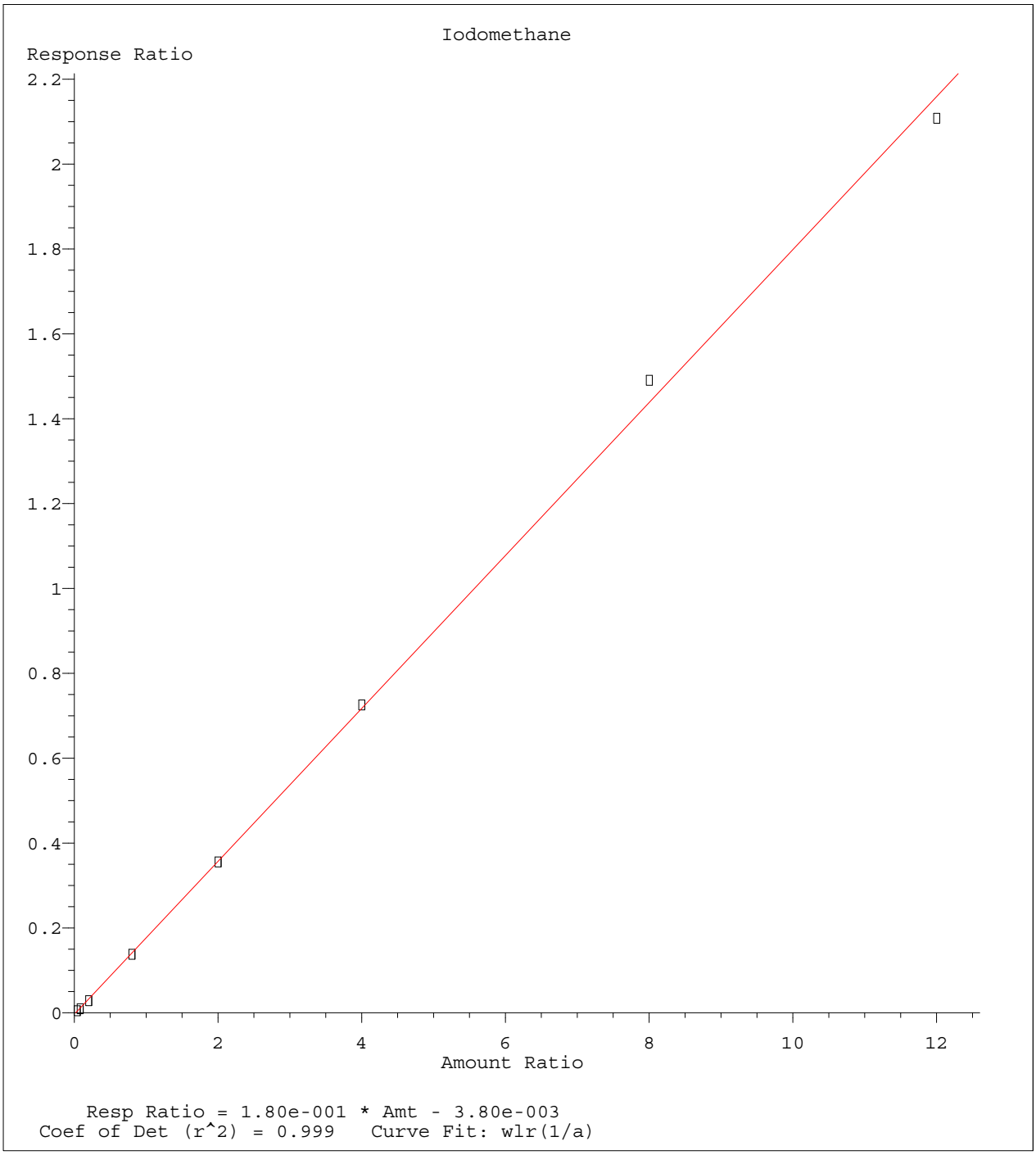
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Calibration Table Last Updated: Fri Jul 03 13:27:47 2015



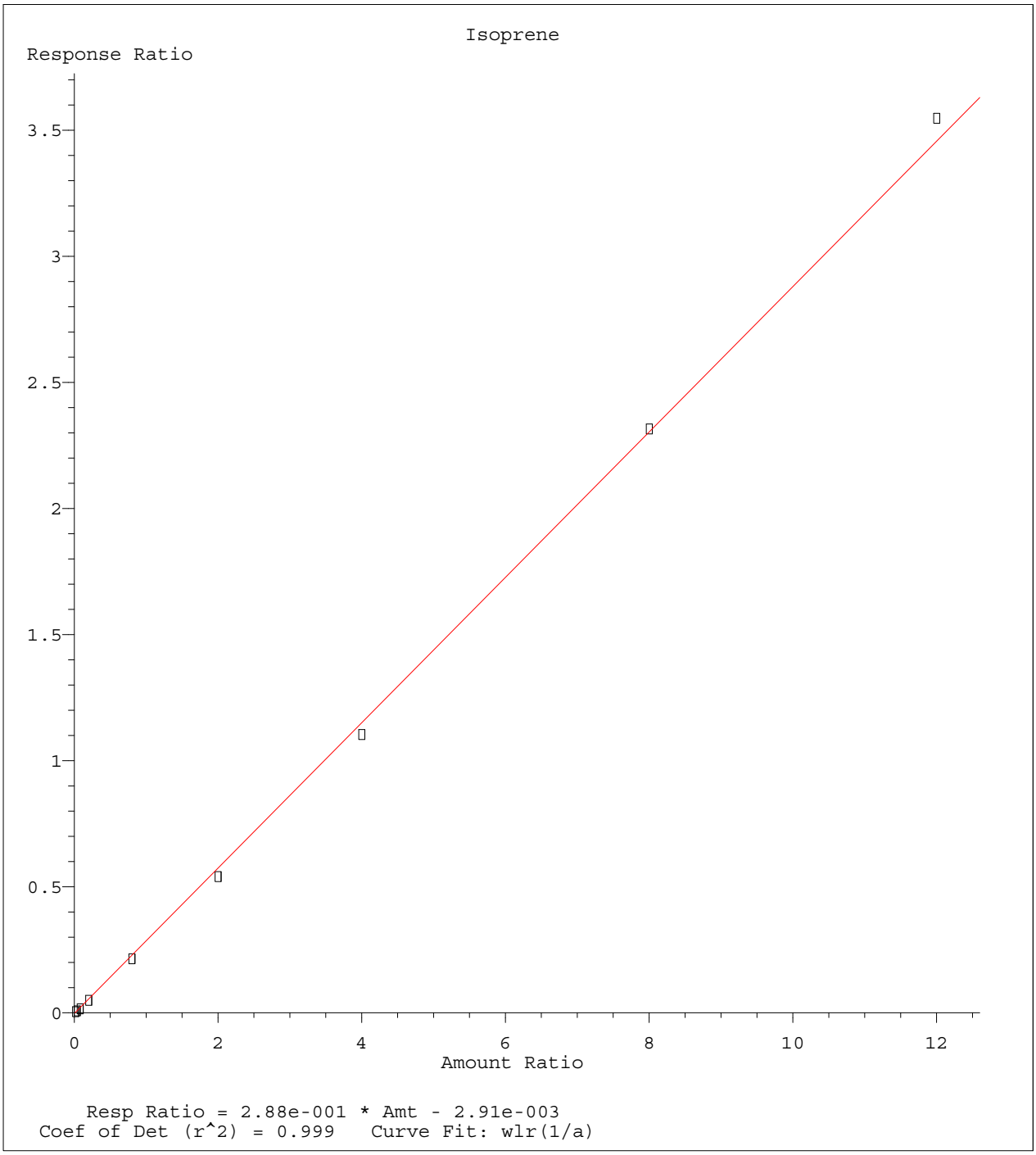
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Calibration Table Last Updated: Fri Jul 03 13:27:47 2015



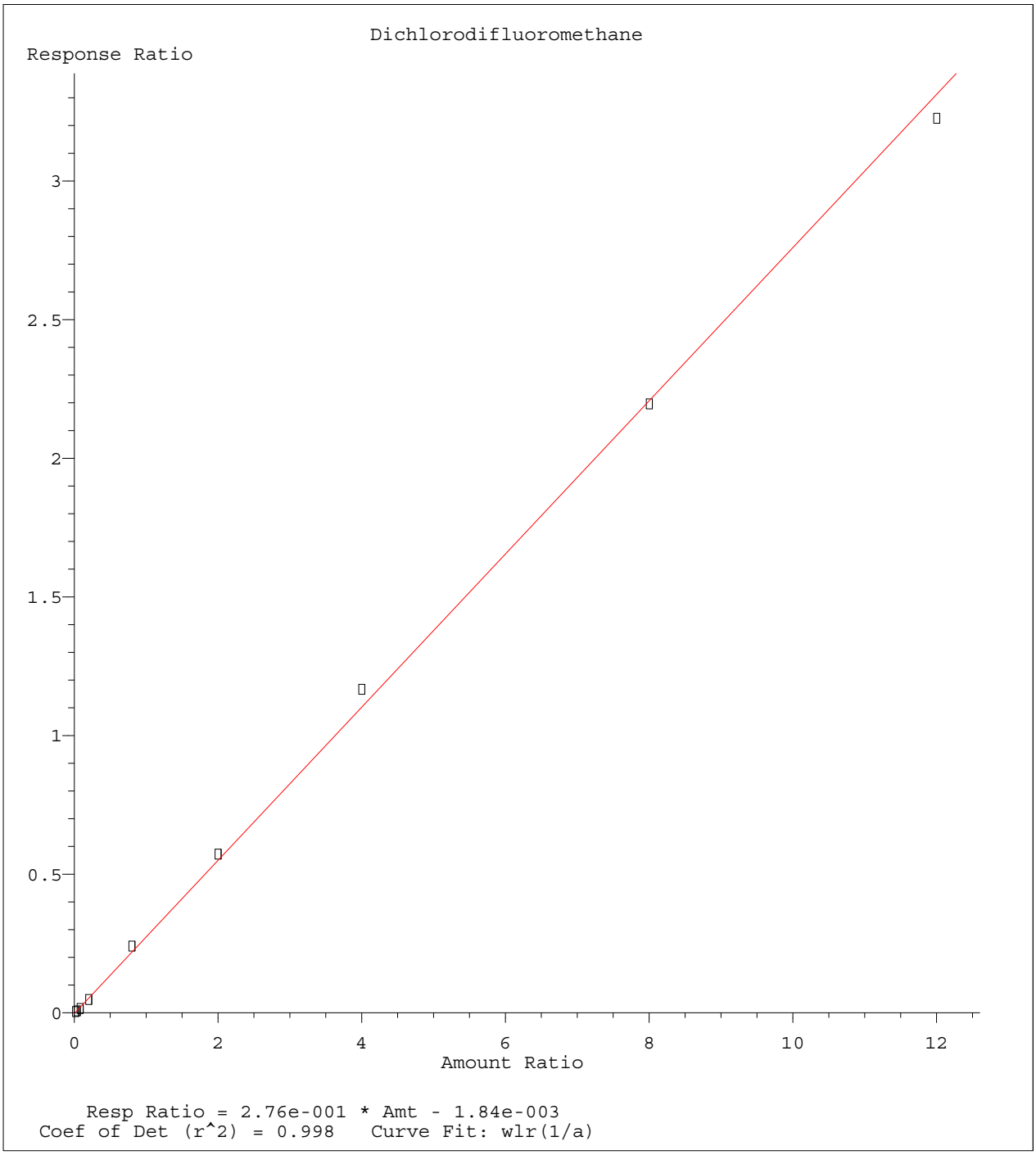
Method Name: C:\MSDCHEM\2\METHODS\8260WT.M
Calibration Table Last Updated: Fri Jul 03 13:27:47 2015



Method Name: C:\MSDCHEM\2\METHODS\8260WT.M
Calibration Table Last Updated: Fri Jul 03 13:27:47 2015



Method Name: C:\MSDCHEM\2\METHODS\8260WT.M
Calibration Table Last Updated: Fri Jul 03 13:27:47 2015



Method Name: C:\MSDCHEM\2\METHODS\8260WT.M
Calibration Table Last Updated: Fri Jul 03 13:27:47 2015

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405876.D Vial: 14
Acq On : 2 Jul 2015 20:52 Operator: ADC/ JDS
Sample : WG529657-12 50.0ug/L ALT 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:30:01 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	778983	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	544179	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	299577	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	175938	24.3446	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 97.36%			
43) 1,2-Dichloroethane-d4	10.31	65	173986	24.6131	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 98.44%			
58) Toluene-d8	12.69	98	659814	24.5113	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.04%			
80) p-Bromofluorobenzene	16.08	95	258361	24.1392	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 96.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.16	85	538784	62.7924	ug/L	100
3) Chloromethane	3.62	50	784698	51.2917	ug/L	100
4) Vinyl Chloride	3.85	62	622400	52.8455	ug/L	99
5) 1,3-Butadiene	3.89	54	85136	9.0941	ug/L	92
6) Bromomethane	4.74	94	295863	56.3083	ug/L	99
7) Chloroethane	4.90	64	315002	62.1599	ug/L	98
8) Trichlorofluoromethane	5.38	101	608322	51.3216	ug/L	99
9) Diethyl ether	5.92	59	479385	103.3713	ug/L	98
10) Isoprene	5.95	67	551754	61.6833	ug/L	99
11) Acrolein	6.15	56	40781	126.1421	ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	345327	53.0707	ug/L	99
13) Acetone	6.26	43	46635	48.7295	ug/L	87
14) 1,1-Dichloroethene	6.47	61	580898	51.0587	ug/L	99
15) Tert-Butyl Alcohol	6.59	59	50270	214.1059	ug/L	97
16) Dimethyl Sulfide	6.74	62	454430	73.2995	ug/L	97
17) Iodomethane	6.99	142	362697	65.0849	ug/L	98
18) Methyl acetate	7.01	43	172049	45.2735	ug/L	97
19) Methylene Chloride	7.26	84	373278	52.0254	ug/L	98
20) Carbon Disulfide	7.30	76	1059445	51.7917	ug/L	100
21) Acrylonitrile	7.45	53	81402	57.8886	ug/L	97
22) Methyl Tert Butyl Ether	7.48	73	706137	53.7218	ug/L	99
23) trans-1,2-Dichloroethene	7.71	61	600296	54.5733	ug/L	99
24) n-Hexane	7.79	57	544732	50.0586	ug/L	99
25) Diisopropyl ether	8.14	45	2746402	102.7301	ug/L	99
26) Vinyl Acetate	8.30	43	422731	71.9081	ug/L	100
27) 1,1-Dichloroethane	8.33	63	742284	51.9925	ug/L	99
28) Ethyl-Tert-Butyl ether	8.71	59	2042626	98.4817	ug/L	100
29) 2-Butanone	8.89	43	87470	54.1133	ug/L	100
30) Propionitrile	9.00	54	55447	115.7282	ug/L	98
31) 2,2-Dichloropropane	9.11	77	594561	52.1591	ug/L	99
32) cis-1,2-Dichloroethene	9.17	96	410419	54.0136	ug/L	99
33) Chloroform	9.38	83	679859	52.3486	ug/L	100
34) 1-Bromopropane	9.51	122	83673	65.9060	ug/L	97
35) Bromochloromethane	9.62	130	198341	52.8475	ug/L	98
36) Tetrahydrofuran	9.64	42	111237	103.0174	ug/L	99
38) 1,1,1-Trichloroethane	9.92	97	656205	53.2332	ug/L	99
39) Cyclohexane	9.95	56	724384	49.3312	ug/L	99
40) 1,1-Dichloropropene	10.11	75	546780	55.3439	ug/L	98
41) Tert-Amyl-Methyl ether	10.22	73	1592682	103.2784	ug/L	100
42) Carbon Tetrachloride	10.26	117	584257	52.3298	ug/L	100

(#) = qualifier out of range (m) = manual integration
8M405876.D 8260WT.M Fri Jul 03 13:30:02 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405876.D Vial: 14
Acq On : 2 Jul 2015 20:52 Operator: ADC/ JDS
Sample : WG529657-12 50.0ug/L ALT 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 13:30:01 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

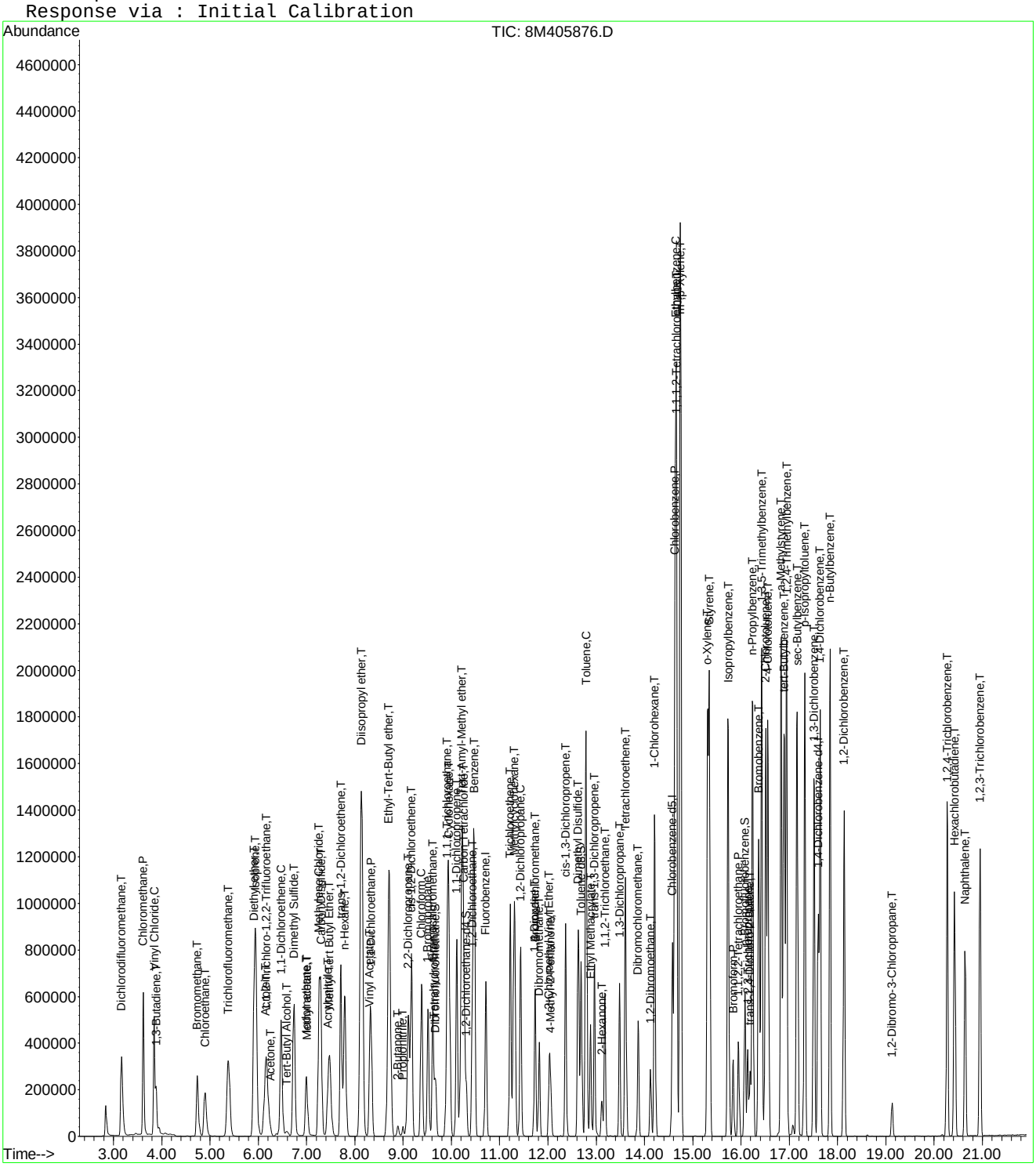
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	454982	51.5240	ug/L		99
46)	Benzene	10.47	78	1510836	53.3383	ug/L		99
47)	Trichloroethene	11.22	130	392662	55.7209	ug/L		98
48)	Methylcyclohexane	11.30	83	612684	53.3354	ug/L		99
49)	1,2-Dichloropropane	11.44	63	422876	53.8171	ug/L		98
50)	Bromodichloromethane	11.74	83	510488	52.6165	ug/L		100
51)	1,4-Dioxane	11.73	88	4513	176.5795	ug/L		99
52)	Dibromomethane	11.82	93	180586	49.7231	ug/L		97
53)	2-Chloroethyl Vinyl Ether	12.03	63	177700	51.7462	ug/L		98
54)	4-Methyl-2-Pentanone	12.06	58	77812	53.2522	ug/L		98
55)	cis-1,3-Dichloropropene	12.37	75	604164	56.1495	ug/L		98
56)	Dimethyl Disulfide	12.63	79	328968	54.9147	ug/L		99
59)	Toluene	12.79	91	1638110	54.6644	ug/L		100
60)	Ethyl Methacrylate	12.88	69	329593	59.6325	ug/L		95
62)	trans-1,3-Dichloropropene	12.97	75	473660	51.2407	ug/L		100
63)	1,1,2-Trichloroethane	13.18	97	248973	53.7551	ug/L		99
64)	2-Hexanone	13.12	58	69376	51.8446	ug/L	#	97
65)	1,3-Dichloropropane	13.48	76	432257	53.2657	ug/L		97
66)	Tetrachloroethene	13.61	164	328925	53.7270	ug/L		99
67)	Dibromochloromethane	13.87	129	326495	48.2911	ug/L		100
68)	1,2-Dibromoethane	14.12	107	232717	52.2075	ug/L		99
69)	1-Chlorohexane	14.21	91	578120	55.0232	ug/L		99
70)	Chlorobenzene	14.63	112	984412	48.9928	ug/L		98
71)	1,1,1,2-Tetrachloroethane	14.66	131	375687	51.4152	ug/L		99
72)	Ethylbenzene	14.65	106	595630	52.6923	ug/L		100
73)	m-,p-Xylene	14.74	106	1382832	103.8718	ug/L		99
74)	o-Xylene	15.30	106	653224	50.5851	ug/L		98
75)	Styrene	15.34	104	1145606	55.1962	ug/L		100
76)	Bromoform	15.84	173	201384	49.3183	ug/L		98
77)	Isopropylbenzene	15.74	105	1693464	52.2773	ug/L		100
79)	1,1,2,2-Tetrachloroethane	15.94	83	265821	52.5815	ug/L		100
81)	1,2,3-Trichloropropane	16.14	110	72168	49.7172	ug/L		66
82)	trans-1,4-Dichloro-2-Buten	16.18	53	88708	48.3964	ug/L	#	53
83)	n-Propylbenzene	16.23	91	2122972	52.1401	ug/L		100
84)	Bromobenzene	16.37	156	419598	50.5060	ug/L		99
85)	1,3,5-Trimethylbenzene	16.43	105	1581719	55.7006	ug/L		100
86)	2-Chlorotoluene	16.51	91	1359518	52.8753	ug/L		99
87)	4-Chlorotoluene	16.55	91	1237436	47.5143	ug/L		100
88)	a-Methylstyrene	16.83	118	860782	57.1369	ug/L		99
89)	tert-Butylbenzene	16.90	134	296673	51.2644	ug/L		97
90)	1,2,4-Trimethylbenzene	16.95	105	1604091	55.4170	ug/L		99
91)	sec-Butylbenzene	17.16	105	1793642	53.0058	ug/L		100
92)	p-Isopropyltoluene	17.32	119	1513620	51.4726	ug/L		100
93)	1,3-Dichlorobenzene	17.52	146	803936	48.6137	ug/L		99
94)	1,4-Dichlorobenzene	17.64	146	859521	50.9418	ug/L		99
95)	n-Butylbenzene	17.85	91	1601694	55.5441	ug/L		99
96)	1,2-Dichlorobenzene	18.14	146	704184	47.6878	ug/L		99
97)	1,2-Dibromo-3-Chloropropan	19.13	75	47637	53.2898	ug/L		99
98)	1,2,4-Trichlorobenzene	20.28	180	562256	50.8356	ug/L		99
99)	Hexachlorobutadiene	20.42	225	284839	51.4126	ug/L		99
100)	Naphthalene	20.64	128	761229	52.2083	ug/L		100
101)	1,2,3-Trichlorobenzene	20.95	180	468956	48.7597	ug/L		99

(#) = qualifier out of range (m) = manual integration
8M405876.D 8260WT.M Fri Jul 03 13:30:02 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070215\8M405876.D Vial: 14
Acq On : 2 Jul 2015 20:52 Operator: ADC/ JDS
Sample : WG529657-12 50.0ug/L ALT 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 13:30 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\2\DATA\070215\8M405876.D Vial: 14
Acq On : 2 Jul 2015 20:52 Operator: ADC/ JDS
Sample : WG529657-12 50.0ug/L ALT 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	114	0.00
2	T	Dichlorodifluoromethane	50.0000	62.7924	-25.6#	138	0.00
3	P	Chloromethane	50.0000	51.2917	-2.6	118	0.00
4	C	Vinyl Chloride	50.0000	52.8455	-5.7	117	0.00
5	T	1,3-Butadiene	50.0000	9.0941	81.8#	19	0.00
6	T	Bromomethane	50.0000	56.3083	-12.6	125	0.00
7	T	Chloroethane	50.0000	62.1599	-24.3	135	0.00
8	T	Trichlorofluoromethane	50.0000	51.3216	-2.6	114	0.00
9	T	Diethyl ether	100.0000	103.3714	-3.4	118	0.00
10	T	Isoprene	50.0000	61.6833	-23.4	150	0.00
11	T	Acrolein	50.0000	126.1421	-152.3#	310	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	53.0707	-6.1	114	0.00
13	T	Acetone	50.0000	48.7295	2.5	105	0.01
14	C	1,1-Dichloroethene	50.0000	51.0587	-2.1	115	0.00
15	T	Tert-Butyl Alcohol	200.0000	214.1059	-7.1	122	0.00
16	T	Dimethyl Sulfide	50.0000	73.2995	-46.6#	162	0.00
17	T	Iodomethane	50.0000	65.0849	-30.2#	150	0.00
18	T	Methyl acetate	50.0000	45.2735	9.5	107	0.00
19	T	Methylene Chloride	50.0000	52.0254	-4.1	120	0.00
20	T	Carbon Disulfide	50.0000	51.7917	-3.6	114	0.00
21	T	Acrylonitrile	50.0000	57.8886	-15.8	120	0.00
22	T	Methyl Tert Butyl Ether	50.0000	53.7218	-7.4	116	0.00
23	T	trans-1,2-Dichloroethene	50.0000	54.5733	-9.1	122	0.00
24	T	n-Hexane	50.0000	50.0586	-0.1	118	0.00
25	T	Diisopropyl ether	100.0000	102.7301	-2.7	115	0.00
26	T	Vinyl Acetate	50.0000	71.9081	-43.8#	150	0.00
27	P	1,1-Dichloroethane	50.0000	51.9925	-4.0	116	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	98.4817	1.5	110	0.00
29	T	2-Butanone	50.0000	54.1133	-8.2	124	0.00
30	T	Propionitrile	100.0000	115.7282	-15.7	126	0.00
31	T	2,2-Dichloropropane	50.0000	52.1591	-4.3	114	0.00
32	T	cis-1,2-Dichloroethene	50.0000	54.0136	-8.0	118	0.00
33	C	Chloroform	50.0000	52.3486	-4.7	116	0.00
34		1-Bromopropane	50.0000	65.9060	-31.8#	160	0.00
35	T	Bromochloromethane	50.0000	52.8475	-5.7	113	0.00
36	T	Tetrahydrofuran	100.0000	103.0174	-3.0	120	0.00
37	S	Dibromofluoromethane	25.0000	24.3446	2.6	110	0.00
38	T	1,1,1-Trichloroethane	50.0000	53.2332	-6.5	119	0.00
39	T	Cyclohexane	50.0000	49.3312	1.3	122	0.00
40	T	1,1-Dichloropropene	50.0000	55.3439	-10.7	120	0.00
41	T	Tert-Amyl-Methyl ether	100.0000	103.2784	-3.3	115	0.00
42	T	Carbon Tetrachloride	50.0000	52.3298	-4.7	114	0.00
43	S	1,2-Dichloroethane-d4	25.0000	24.6131	1.5	108	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	50.0000	51.5240	-3.0	111	0.00
46	T	Benzene	50.0000	53.3383	-6.7	120	0.00
47	T	Trichloroethene	50.0000	55.7209	-11.4	121	0.00
48	T	Methylcyclohexane	50.0000	53.3354	-6.7	126	0.00
49	C	1,2-Dichloropropane	50.0000	53.8171	-7.6	119	0.00
50	T	Bromodichloromethane	50.0000	52.6165	-5.2	112	0.00
51	T	1,4-Dioxane	200.0000	176.5795	11.7	95	0.01
52	T	Dibromomethane	50.0000	49.7231	0.6	109	0.00
53	T	2-Chloroethyl Vinyl Ether	50.0000	51.7462	-3.5	116	0.00
54	T	4-Methyl-2-Pentanone	50.0000	53.2522	-6.5	117	0.00

(#) = Out of Range
8M405876.D 8260WT.M Fri Jul 03 13:30:29 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070215\8M405876.D Vial: 14
Acq On : 2 Jul 2015 20:52 Operator: ADC/ JDS
Sample : WG529657-12 50.0ug/L ALT 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	cis-1,3-Dichloropropene	50.0000	56.1495	-12.3	119	0.00
56	T	Dimethyl Disulfide	50.0000	54.9147	-9.8	123	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	116	0.00
58	S	Toluene-d8	25.0000	24.5113	2.0	110	0.00
59	C	Toluene	50.0000	54.6644	-9.3	119	0.00
60	T	Ethyl Methacrylate	50.0000	59.6325	-19.3	124	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	50.0000	51.2407	-2.5	110	0.00
63	T	1,1,2-Trichloroethane	50.0000	53.7551	-7.5	115	0.00
64	T	2-Hexanone	50.0000	51.8446	-3.7	114	0.00
65	T	1,3-Dichloropropane	50.0000	53.2657	-6.5	116	0.00
66	T	Tetrachloroethene	50.0000	53.7270	-7.5	118	0.00
67	T	Dibromochloromethane	50.0000	48.2911	3.4	111	0.00
68	T	1,2-Dibromoethane	50.0000	52.2075	-4.4	113	0.00
69	T	1-Chlorohexane	50.0000	55.0232	-10.0	131	0.00
70	P	Chlorobenzene	50.0000	48.9928	2.0	111	0.00
71	T	1,1,1,2-Tetrachloroethane	50.0000	51.4152	-2.8	112	0.00
72	C	Ethylbenzene	50.0000	52.6923	-5.4	119	0.00
73	T	m-,p-Xylene	100.0000	103.8718	-3.9	115	0.00
74	T	o-Xylene	50.0000	50.5851	-1.2	113	0.00
75	T	Styrene	50.0000	55.1962	-10.4	116	0.00
76	P	Bromoform	50.0000	49.3183	1.4	115	0.00
77	T	Isopropylbenzene	50.0000	52.2773	-4.6	112	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	114	0.00
79	P	1,1,2,2-Tetrachloroethane	50.0000	52.5815	-5.2	111	0.00
80	S	p-Bromofluorobenzene	25.0000	24.1392	3.4	109	0.00
81	T	1,2,3-Trichloropropane	50.0000	49.7172	0.6	110	0.00
82	T	trans-1,4-Dichloro-2-Butene	50.0000	48.3964	3.2	105	0.00
83	T	n-Propylbenzene	50.0000	52.1401	-4.3	110	0.00
84	T	Bromobenzene	50.0000	50.5060	-1.0	114	0.00
85	T	1,3,5-Trimethylbenzene	50.0000	55.7006	-11.4	120	0.00
86	T	2-Chlorotoluene	50.0000	52.8753	-5.8	115	0.00
87	T	4-Chlorotoluene	50.0000	47.5143	5.0	104	0.00
88	T	a-Methylstyrene	50.0000	57.1369	-14.3	127	0.00
89	T	tert-Butylbenzene	50.0000	51.2644	-2.5	111	0.00
90	T	1,2,4-Trimethylbenzene	50.0000	55.4170	-10.8	118	0.00
91	T	sec-Butylbenzene	50.0000	53.0058	-6.0	110	0.00
92	T	p-Isopropyltoluene	50.0000	51.4726	-2.9	108	0.00
93	T	1,3-Dichlorobenzene	50.0000	48.6137	2.8	107	0.00
94	T	1,4-Dichlorobenzene	50.0000	50.9418	-1.9	116	0.00
95	T	n-Butylbenzene	50.0000	55.5441	-11.1	117	0.00
96	T	1,2-Dichlorobenzene	50.0000	47.6878	4.6	106	0.00
97	T	1,2-Dibromo-3-Chloropropane	50.0000	53.2898	-6.6	113	0.00
98	T	1,2,4-Trichlorobenzene	50.0000	50.8356	-1.7	113	0.00
99	T	Hexachlorobutadiene	50.0000	51.4126	-2.8	117	0.00
100	T	Naphthalene	50.0000	52.2083	-4.4	110	0.00
101	T	1,2,3-Trichlorobenzene	50.0000	48.7597	2.5	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\070315\8M405878.D Vial: 2
Acq On : 3 Jul 2015 14:42 Operator: ADC/ JDS
Sample : WG529902-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 15:04:43 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	795065	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	548511	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	296297	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	178437	24.1909	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 96.76%			
43) 1,2-Dichloroethane-d4	10.31	65	172639	23.9286	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 95.72%			
58) Toluene-d8	12.69	98	700762	25.8269	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.32%			
80) p-Bromofluorobenzene	16.08	95	267644	25.2834	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.12%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	460423	52.6016	ug/L	99
3) Chloromethane	3.62	50	754495	48.3199	ug/L	100
4) Vinyl Chloride	3.84	62	589485	49.0384	ug/L	99
5) 1,3-Butadiene	3.89	54	456258	47.7512	ug/L	95
6) Bromomethane	4.74	94	287017	53.5199	ug/L	100
7) Chloroethane	4.90	64	295657	57.1624	ug/L	99
8) Trichlorofluoromethane	5.39	101	642883	53.1403	ug/L	99
9) Diethyl ether	5.91	59	453280	95.7652	ug/L	99
10) Isoprene	5.94	67	457682	50.1788	ug/L	100
11) Acrolein	6.14	56	16549	50.1533	ug/L	95
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	373554	56.2475	ug/L	98
13) Acetone	6.25	43	53425	54.6952	ug/L	97
14) 1,1-Dichloroethene	6.47	61	613246	52.8117	ug/L	100
15) Tert-Butyl Alcohol	6.58	59	56089	234.0576	ug/L	98
16) Dimethyl Sulfide	6.74	62	330338	52.2057	ug/L	99
17) Iodomethane	6.99	142	311077	54.7768	ug/L	98
18) Methyl acetate	7.00	43	184931	47.6790	ug/L	97
19) Methylene Chloride	7.26	84	368627	50.3379	ug/L	98
20) Carbon Disulfide	7.30	76	1176078	56.3304	ug/L	100
21) Acrylonitrile	7.44	53	75039	52.2842	ug/L	99
22) Methyl Tert Butyl Ether	7.47	73	650174	48.4637	ug/L	99
23) trans-1,2-Dichloroethene	7.71	61	582227	51.8600	ug/L	97
24) n-Hexane	7.79	57	610271	54.9470	ug/L	99
25) Diisopropyl ether	8.14	45	2731859	100.1192	ug/L	100
26) Vinyl Acetate	8.30	43	322185	53.6963	ug/L	100
27) 1,1-Dichloroethane	8.33	63	768292	52.7257	ug/L	99
28) Ethyl-Tert-Butyl ether	8.70	59	2066355	97.6106	ug/L	99
29) 2-Butanone	8.89	43	81230	49.2365	ug/L	98
30) Propionitrile	8.99	54	52384	107.1236	ug/L	99
31) 2,2-Dichloropropane	9.11	77	633674	54.4659	ug/L	99
32) cis-1,2-Dichloroethene	9.17	96	411136	53.0135	ug/L	99
33) Chloroform	9.38	83	682469	51.4866	ug/L	99
34) 1-Bromopropane	9.52	122	62896	48.7150	ug/L	99
35) Bromochloromethane	9.61	130	200247	52.2761	ug/L	98
36) Tetrahydrofuran	9.63	42	144440	131.0612	ug/L	97
38) 1,1,1-Trichloroethane	9.91	97	661880	52.6075	ug/L	98
39) Cyclohexane	9.95	56	734933	49.0405	ug/L	99
40) 1,1-Dichloropropene	10.11	75	562213	55.7549	ug/L	100
41) Tert-Amyl-Methyl ether	10.21	73	1504115	95.5623	ug/L	99
42) Carbon Tetrachloride	10.26	117	600845	52.7270	ug/L	99

(#) = qualifier out of range (m) = manual integration
8M405878.D 8260WT.M Fri Jul 03 15:04:43 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\070315\8M405878.D Vial: 2
Acq On : 3 Jul 2015 14:42 Operator: ADC/ JDS
Sample : WG529902-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 03 15:04:43 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

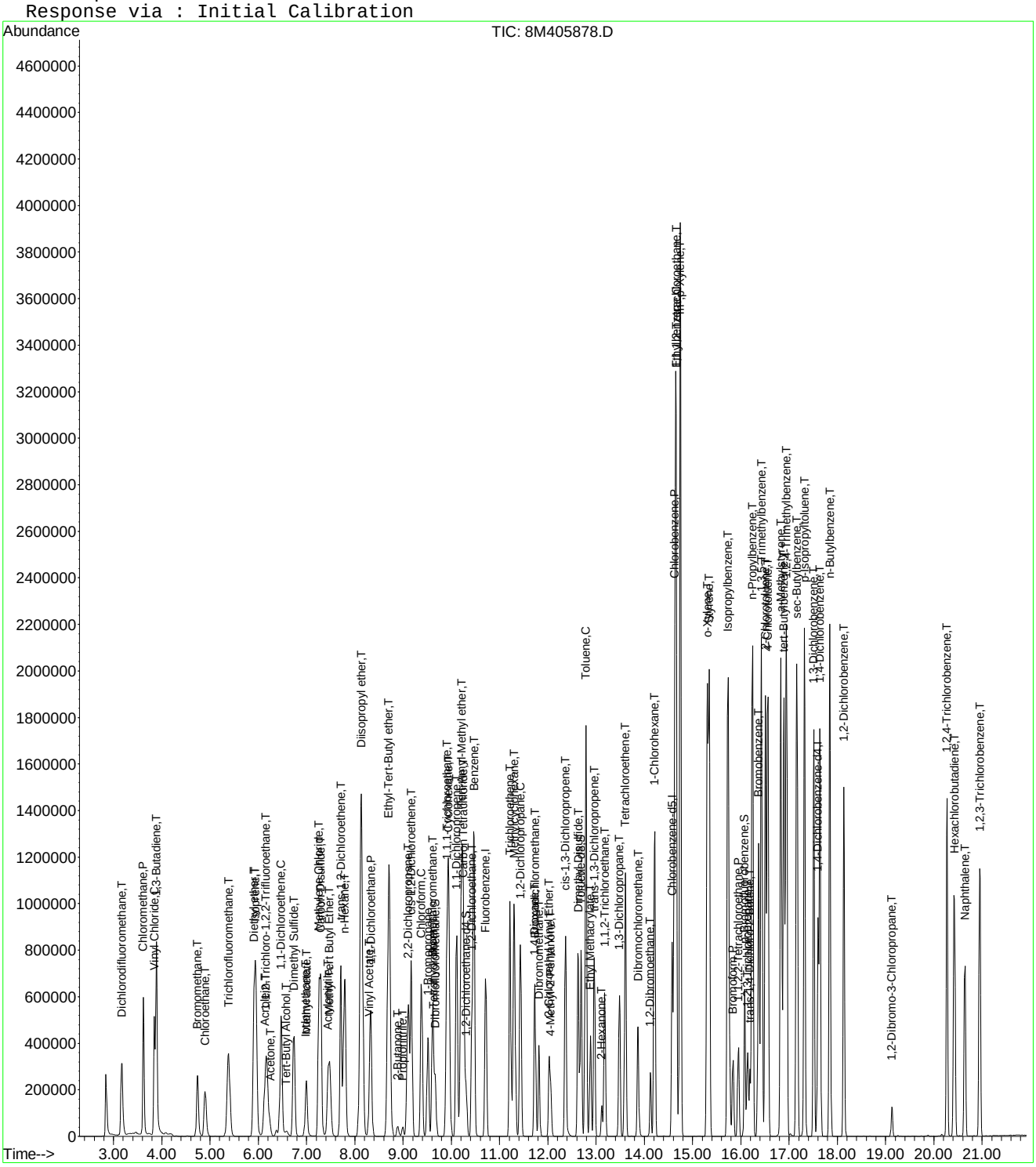
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	451862	50.1357	ug/L		99
46)	Benzene	10.47	78	1509311	52.2067	ug/L		99
47)	Trichloroethene	11.22	130	391198	54.3903	ug/L		100
48)	Methylcyclohexane	11.30	83	611560	52.1607	ug/L		99
49)	1,2-Dichloropropane	11.43	63	416026	51.8744	ug/L		100
50)	Bromodichloromethane	11.73	83	520609	52.5743	ug/L		100
51)	1,4-Dioxane	11.72	88	8176	295.2842	ug/L		86
52)	Dibromomethane	11.82	93	180373	48.6599	ug/L		99
53)	2-Chloroethyl Vinyl Ether	12.02	63	170523	48.6518	ug/L		99
54)	4-Methyl-2-Pentanone	12.05	58	71591	48.0037	ug/L		98
55)	cis-1,3-Dichloropropene	12.36	75	577998	52.6311	ug/L		99
56)	Dimethyl Disulfide	12.63	79	302737	49.5138	ug/L		99
59)	Toluene	12.79	91	1637147	54.2008	ug/L		99
60)	Ethyl Methacrylate	12.88	69	285686	51.2803	ug/L		99
62)	trans-1,3-Dichloropropene	12.96	75	483428	51.8844	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	236186	50.5915	ug/L		97
64)	2-Hexanone	13.12	58	63984	47.4376	ug/L	#	98
65)	1,3-Dichloropropane	13.48	76	415133	50.7516	ug/L		97
66)	Tetrachloroethene	13.61	164	332245	53.8407	ug/L		99
67)	Dibromochloromethane	13.87	129	326423	47.9008	ug/L		100
68)	1,2-Dibromoethane	14.12	107	227462	50.6256	ug/L		99
69)	1-Chlorohexane	14.22	91	542474	51.2339	ug/L		99
70)	Chlorobenzene	14.63	112	1038543	51.2786	ug/L		99
71)	1,1,1,2-Tetrachloroethane	14.66	131	380970	51.7265	ug/L		100
72)	Ethylbenzene	14.66	106	585812	51.4144	ug/L		100
73)	m-,p-Xylene	14.74	106	1422299	105.9926	ug/L		99
74)	o-Xylene	15.31	106	685749	52.6844	ug/L		98
75)	Styrene	15.34	104	1136586	54.3291	ug/L		100
76)	Bromoform	15.84	173	188965	45.9436	ug/L		99
77)	Isopropylbenzene	15.74	105	1785923	54.6961	ug/L		100
79)	1,1,2,2-Tetrachloroethane	15.95	83	251261	50.2516	ug/L		98
81)	1,2,3-Trichloropropane	16.14	110	69615	48.4893	ug/L		98
82)	trans-1,4-Dichloro-2-Buten	16.19	53	90585	49.9502	ug/L		96
83)	n-Propylbenzene	16.24	91	2274977	56.4918	ug/L		100
84)	Bromobenzene	16.37	156	418375	50.9163	ug/L		99
85)	1,3,5-Trimethylbenzene	16.43	105	1553797	55.3230	ug/L		99
86)	2-Chlorotoluene	16.51	91	1348600	53.0313	ug/L		99
87)	4-Chlorotoluene	16.56	91	1386641	53.8328	ug/L		100
88)	a-Methylstyrene	16.83	118	787253	52.8347	ug/L		100
89)	tert-Butylbenzene	16.89	134	316308	55.2623	ug/L		99
90)	1,2,4-Trimethylbenzene	16.94	105	1590079	55.5410	ug/L		100
91)	sec-Butylbenzene	17.16	105	1945040	58.1162	ug/L		100
92)	p-Isopropyltoluene	17.32	119	1668629	57.3720	ug/L		99
93)	1,3-Dichlorobenzene	17.51	146	872413	53.3385	ug/L		100
94)	1,4-Dichlorobenzene	17.64	146	852362	51.0767	ug/L		98
95)	n-Butylbenzene	17.84	91	1639865	57.4973	ug/L		100
96)	1,2-Dichlorobenzene	18.13	146	741042	50.7394	ug/L		99
97)	1,2-Dibromo-3-Chloropropan	19.13	75	44232	50.0285	ug/L		100
98)	1,2,4-Trichlorobenzene	20.27	180	559120	51.1116	ug/L		99
99)	Hexachlorobutadiene	20.43	225	297835	54.3553	ug/L		98
100)	Naphthalene	20.65	128	725806	50.3299	ug/L		99
101)	1,2,3-Trichlorobenzene	20.96	180	466542	49.0457	ug/L		99

(#) = qualifier out of range (m) = manual integration
8M405878.D 8260WT.M Fri Jul 03 15:04:43 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\070315\8M405878.D Vial: 2
Acq On : 3 Jul 2015 14:42 Operator: ADC/ JDS
Sample : WG529902-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 15:04 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\2\DATA\070315\8M405878.D Vial: 2
Acq On : 3 Jul 2015 14:42 Operator: ADC/ JDS
Sample : WG529902-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	117	0.00
2	T	Dichlorodifluoromethane	0.2541	0.2895	-13.9	118	0.00
3	P	Chloromethane	0.4910	0.4745	3.4	113	0.00
4	C	Vinyl Chloride	0.3780	0.3707	1.9	111	0.00
5	T	1,3-Butadiene	0.3004	0.2869	4.5	102	0.00
6	T	Bromomethane	0.1686	0.1805	-7.0	121	0.00
7	T	Chloroethane	0.1626	0.1859	-14.3	126	0.00
8	T	Trichlorofluoromethane	0.3804	0.4043	-6.3	121	0.00
9	T	Diethyl ether	0.1488	0.1425	4.2	112	0.00
10	T	Isoprene	0.2536	0.2878	-13.5	124	-0.01
11	T	Acrolein	0.0104	0.0104	-0.3	126	-0.01
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.2088	0.2349	-12.5	123	0.00
13	T	Acetone	0.0307	0.0336	-9.4	120	0.00
14	C	1,1-Dichloroethene	0.3651	0.3857	-5.6	121	0.00
15	T	Tert-Butyl Alcohol	0.0075	0.0088	-17.0	136	0.00
16	T	Dimethyl Sulfide	0.1990	0.2077	-4.4	117	0.00
17	T	Iodomethane	0.1591	0.1956	-23.0	128	0.00
18	T	Methyl acetate	0.1220	0.1163	4.6	115	-0.01
19	T	Methylene Chloride	0.2303	0.2318	-0.7	118	0.00
20	T	Carbon Disulfide	0.6565	0.7396	-12.7	127	0.00
21	T	Acrylonitrile	0.0451	0.0472	-4.6	111	0.00
22	T	Methyl Tert Butyl Ether	0.4218	0.4089	3.1	107	0.00
23	T	trans-1,2-Dichloroethene	0.3530	0.3661	-3.7	118	0.00
24	T	n-Hexane	0.3492	0.3838	-9.9	132	0.00
25	T	Diisopropyl ether	0.8580	0.8590	-0.1	115	0.00
26	T	Vinyl Acetate	0.1887	0.2026	-7.4	115	0.00
27	P	1,1-Dichloroethane	0.4582	0.4832	-5.4	120	0.00
28	T	Ethyl-Tert-Butyl ether	0.6656	0.6497	2.4	111	0.00
29	T	2-Butanone	0.0519	0.0511	1.5	115	0.00
30	T	Propionitrile	0.0154	0.0165	-7.1	119	0.00
31	T	2,2-Dichloropropane	0.3658	0.3985	-8.9	122	0.00
32	T	cis-1,2-Dichloroethene	0.2439	0.2586	-6.0	118	0.00
33	C	Chloroform	0.4168	0.4292	-3.0	116	0.00
34		1-Bromopropane	0.0350	0.0396	-13.0	120	0.00
35	T	Bromochloromethane	0.1205	0.1259	-4.5	114	0.00
36	T	Tetrahydrofuran	0.0347	0.0454	-31.1#	155#	0.00
37	S	Dibromofluoromethane	0.2319	0.2244	3.2	112	0.00
38	T	1,1,1-Trichloroethane	0.3956	0.4162	-5.2	120	0.00
39	T	Cyclohexane	0.4196	0.4622	-10.1	124	0.00
40	T	1,1-Dichloropropene	0.3171	0.3536	-11.5	123	0.00
41	T	Tert-Amyl-Methyl ether	0.4949	0.4729	4.4	109	0.00
42	T	Carbon Tetrachloride	0.3583	0.3779	-5.5	118	0.00
43	S	1,2-Dichloroethane-d4	0.2269	0.2171	4.3	107	0.00
44		Heptane	0.0000	0.0000	0.0	0#	-2.54#
45	T	1,2-Dichloroethane	0.2834	0.2842	-0.3	110	0.00
46	T	Benzene	0.9091	0.9492	-4.4	120	0.00
47	T	Trichloroethene	0.2262	0.2460	-8.8	121	0.00
48	T	Methylcyclohexane	0.3687	0.3846	-4.3	126	0.00
49	C	1,2-Dichloropropane	0.2522	0.2616	-3.7	117	0.00
50	T	Bromodichloromethane	0.3114	0.3274	-5.1	114	0.00
51	T	1,4-Dioxane	0.0008	0.0013	-61.2#	172#	0.00
52	T	Dibromomethane	0.1166	0.1134	2.7	109	0.00
53	T	2-Chloroethyl Vinyl Ether	0.1102	0.1072	2.7	111	-0.01
54	T	4-Methyl-2-Pentanone	0.0469	0.0450	4.0	108	-0.01

(#) = Out of Range
8M405878.D 8260WT.M Fri Jul 03 15:33:58 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070315\8M405878.D Vial: 2
Acq On : 3 Jul 2015 14:42 Operator: ADC/ JDS
Sample : WG529902-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	cis-1,3-Dichloropropene	0.3453	0.3635	-5.3	114	0.00
56	T	Dimethyl Disulfide	0.1923	0.1904	1.0	113	0.00
57	I	Chlorobenzene-d5	1.0000	1.0000	0.0	117	0.00
58	S	Toluene-d8	1.2367	1.2776	-3.3	117	0.00
59	C	Toluene	1.3767	1.4924	-8.4	119	0.00
60	T	Ethyl Methacrylate	0.2539	0.2604	-2.6	107	0.00
61		Paraldehyde	0.0000	0.0000	0.0	0#	-13.14#
62	T	trans-1,3-Dichloropropene	0.4247	0.4407	-3.8	112	0.00
63	T	1,1,2-Trichloroethane	0.2128	0.2153	-1.2	109	0.00
64	T	2-Hexanone	0.0615	0.0583	5.1	105	0.00
65	T	1,3-Dichloropropane	0.3728	0.3784	-1.5	111	0.00
66	T	Tetrachloroethene	0.2813	0.3029	-7.7	119	0.00
67	T	Dibromochloromethane	0.2813	0.2975	-5.8	111	0.00
68	T	1,2-Dibromoethane	0.2048	0.2073	-1.3	111	0.00
69	T	1-Chlorohexane	0.4471	0.4945	-10.6	123	0.00
70	P	Chlorobenzene	0.9231	0.9467	-2.6	117	0.00
71	T	1,1,1,2-Tetrachloroethane	0.3357	0.3473	-3.5	114	0.00
72	C	Ethylbenzene	0.5193	0.5340	-2.8	117	0.00
73	T	m-,p-Xylene	0.6116	0.6482	-6.0	118	0.00
74	T	o-Xylene	0.5933	0.6251	-5.4	118	0.00
75	T	Styrene	0.9535	1.0361	-8.7	115	0.00
76	P	Bromoform	0.1697	0.1722	-1.5	108	0.00
77	T	Isopropylbenzene	1.4882	1.6280	-9.4	118	0.00
78	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	113	0.00
79	P	1,1,2,2-Tetrachloroethane	0.4219	0.4240	-0.5	105	0.00
80	S	p-Bromofluorobenzene	0.8932	0.9033	-1.1	113	0.00
81	T	1,2,3-Trichloropropane	0.1211	0.1175	3.0	106	0.00
82	T	trans-1,4-Dichloro-2-Butene	0.1362	0.1529	-12.2	107	0.00
83	T	n-Propylbenzene	3.3979	3.8390	-13.0	118	0.00
84	T	Bromobenzene	0.6933	0.7060	-1.8	113	0.00
85	T	1,3,5-Trimethylbenzene	2.3697	2.6220	-10.6	118	0.00
86	T	2-Chlorotoluene	2.1457	2.2758	-6.1	114	0.00
87	T	4-Chlorotoluene	2.1734	2.3400	-7.7	117	0.00
88	T	a-Methylstyrene	1.2572	1.3285	-5.7	116	0.00
89	T	tert-Butylbenzene	0.4829	0.5338	-10.5	118	0.00
90	T	1,2,4-Trimethylbenzene	2.4156	2.6833	-11.1	117	0.00
91	T	sec-Butylbenzene	2.8239	3.2822	-16.2	119	0.00
92	T	p-Isopropyltoluene	2.4540	2.8158	-14.7	119	0.00
93	T	1,3-Dichlorobenzene	1.3801	1.4722	-6.7	116	0.00
94	T	1,4-Dichlorobenzene	1.4080	1.4384	-2.2	115	0.00
95	T	n-Butylbenzene	2.4064	2.7673	-15.0	120	0.00
96	T	1,2-Dichlorobenzene	1.2323	1.2505	-1.5	111	0.00
97	T	1,2-Dibromo-3-Chloropropane	0.0746	0.0746	-0.1	105	0.00
98	T	1,2,4-Trichlorobenzene	0.9230	0.9435	-2.2	112	0.00
99	T	Hexachlorobutadiene	0.4690	0.5026	-7.2	122	0.00
100	T	Naphthalene	1.2168	1.2248	-0.7	105	0.00
101	T	1,2,3-Trichlorobenzene	0.8026	0.7873	1.9	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M405878.D 8260WT.M Fri Jul 03 15:33:59 2015 Page 2

Data File : C:\MSDCHEM\2\DATA\070315\8M405878.D Vial: 2
Acq On : 3 Jul 2015 14:42 Operator: ADC/ JDS
Sample : WG529902-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	117	0.00
2	T	Dichlorodifluoromethane	50.0000	52.6016	-5.2	118	0.00
3	P	Chloromethane	50.0000	48.3199	3.4	113	0.00
4	C	Vinyl Chloride	50.0000	49.0384	1.9	111	0.00
5	T	1,3-Butadiene	50.0000	47.7512	4.5	102	0.00
6	T	Bromomethane	50.0000	53.5199	-7.0	121	0.00
7	T	Chloroethane	50.0000	57.1624	-14.3	126	0.00
8	T	Trichlorofluoromethane	50.0000	53.1403	-6.3	121	0.00
9	T	Diethyl ether	100.0000	95.7652	4.2	112	0.00
10	T	Isoprene	50.0000	50.1788	-0.4	124	-0.01
11	T	Acrolein	50.0000	50.1533	-0.3	126	-0.01
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	56.2475	-12.5	123	0.00
13	T	Acetone	50.0000	54.6952	-9.4	120	0.00
14	C	1,1-Dichloroethene	50.0000	52.8117	-5.6	121	0.00
15	T	Tert-Butyl Alcohol	200.0000	234.0576	-17.0	136	0.00
16	T	Dimethyl Sulfide	50.0000	52.2057	-4.4	117	0.00
17	T	Iodomethane	50.0000	54.7768	-9.6	128	0.00
18	T	Methyl acetate	50.0000	47.6790	4.6	115	-0.01
19	T	Methylene Chloride	50.0000	50.3379	-0.7	118	0.00
20	T	Carbon Disulfide	50.0000	56.3304	-12.7	127	0.00
21	T	Acrylonitrile	50.0000	52.2842	-4.6	111	0.00
22	T	Methyl Tert Butyl Ether	50.0000	48.4637	3.1	107	0.00
23	T	trans-1,2-Dichloroethene	50.0000	51.8599	-3.7	118	0.00
24	T	n-Hexane	50.0000	54.9470	-9.9	132	0.00
25	T	Diisopropyl ether	100.0000	100.1192	-0.1	115	0.00
26	T	Vinyl Acetate	50.0000	53.6963	-7.4	115	0.00
27	P	1,1-Dichloroethane	50.0000	52.7257	-5.5	120	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	97.6106	2.4	111	0.00
29	T	2-Butanone	50.0000	49.2365	1.5	115	0.00
30	T	Propionitrile	100.0000	107.1236	-7.1	119	0.00
31	T	2,2-Dichloropropane	50.0000	54.4659	-8.9	122	0.00
32	T	cis-1,2-Dichloroethene	50.0000	53.0135	-6.0	118	0.00
33	C	Chloroform	50.0000	51.4866	-3.0	116	0.00
34		1-Bromopropane	50.0000	48.7150	2.6	120	0.00
35	T	Bromochloromethane	50.0000	52.2761	-4.6	114	0.00
36	T	Tetrahydrofuran	100.0000	131.0613	-31.1#	155	0.00
37	S	Dibromofluoromethane	25.0000	24.1909	3.2	112	0.00
38	T	1,1,1-Trichloroethane	50.0000	52.6075	-5.2	120	0.00
39	T	Cyclohexane	50.0000	49.0405	1.9	124	0.00
40	T	1,1-Dichloropropene	50.0000	55.7549	-11.5	123	0.00
41	T	Tert-Amyl-Methyl ether	100.0000	95.5623	4.4	109	0.00
42	T	Carbon Tetrachloride	50.0000	52.7270	-5.5	118	0.00
43	S	1,2-Dichloroethane-d4	25.0000	23.9286	4.3	107	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	50.0000	50.1356	-0.3	110	0.00
46	T	Benzene	50.0000	52.2067	-4.4	120	0.00
47	T	Trichloroethene	50.0000	54.3903	-8.8	121	0.00
48	T	Methylcyclohexane	50.0000	52.1607	-4.3	126	0.00
49	C	1,2-Dichloropropane	50.0000	51.8744	-3.7	117	0.00
50	T	Bromodichloromethane	50.0000	52.5743	-5.1	114	0.00
51	T	1,4-Dioxane	200.0000	295.2842	-47.6#	172	0.00
52	T	Dibromomethane	50.0000	48.6599	2.7	109	0.00
53	T	2-Chloroethyl Vinyl Ether	50.0000	48.6518	2.7	111	-0.01
54	T	4-Methyl-2-Pentanone	50.0000	48.0037	4.0	108	-0.01

(#) = Out of Range
8M405878.D 8260WT.M Fri Jul 03 15:34:01 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070315\8M405878.D Vial: 2
Acq On : 3 Jul 2015 14:42 Operator: ADC/ JDS
Sample : WG529902-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	cis-1,3-Dichloropropene	50.0000	52.6311	-5.3	114	0.00
56	T	Dimethyl Disulfide	50.0000	49.5138	1.0	113	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	117	0.00
58	S	Toluene-d8	25.0000	25.8269	-3.3	117	0.00
59	C	Toluene	50.0000	54.2008	-8.4	119	0.00
60	T	Ethyl Methacrylate	50.0000	51.2803	-2.6	107	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	50.0000	51.8844	-3.8	112	0.00
63	T	1,1,2-Trichloroethane	50.0000	50.5915	-1.2	109	0.00
64	T	2-Hexanone	50.0000	47.4376	5.1	105	0.00
65	T	1,3-Dichloropropane	50.0000	50.7516	-1.5	111	0.00
66	T	Tetrachloroethene	50.0000	53.8407	-7.7	119	0.00
67	T	Dibromochloromethane	50.0000	47.9008	4.2	111	0.00
68	T	1,2-Dibromoethane	50.0000	50.6256	-1.3	111	0.00
69	T	1-Chlorohexane	50.0000	51.2339	-2.5	123	0.00
70	P	Chlorobenzene	50.0000	51.2786	-2.6	117	0.00
71	T	1,1,1,2-Tetrachloroethane	50.0000	51.7265	-3.5	114	0.00
72	C	Ethylbenzene	50.0000	51.4144	-2.8	117	0.00
73	T	m-,p-Xylene	100.0000	105.9926	-6.0	118	0.00
74	T	o-Xylene	50.0000	52.6844	-5.4	118	0.00
75	T	Styrene	50.0000	54.3291	-8.7	115	0.00
76	P	Bromoform	50.0000	45.9436	8.1	108	0.00
77	T	Isopropylbenzene	50.0000	54.6961	-9.4	118	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	113	0.00
79	P	1,1,2,2-Tetrachloroethane	50.0000	50.2516	-0.5	105	0.00
80	S	p-Bromofluorobenzene	25.0000	25.2834	-1.1	113	0.00
81	T	1,2,3-Trichloropropane	50.0000	48.4893	3.0	106	0.00
82	T	trans-1,4-Dichloro-2-Butene	50.0000	49.9502	0.1	107	0.00
83	T	n-Propylbenzene	50.0000	56.4918	-13.0	118	0.00
84	T	Bromobenzene	50.0000	50.9162	-1.8	113	0.00
85	T	1,3,5-Trimethylbenzene	50.0000	55.3230	-10.6	118	0.00
86	T	2-Chlorotoluene	50.0000	53.0313	-6.1	114	0.00
87	T	4-Chlorotoluene	50.0000	53.8328	-7.7	117	0.00
88	T	a-Methylstyrene	50.0000	52.8347	-5.7	116	0.00
89	T	tert-Butylbenzene	50.0000	55.2623	-10.5	118	0.00
90	T	1,2,4-Trimethylbenzene	50.0000	55.5410	-11.1	117	0.00
91	T	sec-Butylbenzene	50.0000	58.1162	-16.2	119	0.00
92	T	p-Isopropyltoluene	50.0000	57.3720	-14.7	119	0.00
93	T	1,3-Dichlorobenzene	50.0000	53.3385	-6.7	116	0.00
94	T	1,4-Dichlorobenzene	50.0000	51.0767	-2.2	115	0.00
95	T	n-Butylbenzene	50.0000	57.4973	-15.0	120	0.00
96	T	1,2-Dichlorobenzene	50.0000	50.7394	-1.5	111	0.00
97	T	1,2-Dibromo-3-Chloropropane	50.0000	50.0285	-0.1	105	0.00
98	T	1,2,4-Trichlorobenzene	50.0000	51.1116	-2.2	112	0.00
99	T	Hexachlorobutadiene	50.0000	54.3553	-8.7	122	0.00
100	T	Naphthalene	50.0000	50.3299	-0.7	105	0.00
101	T	1,2,3-Trichlorobenzene	50.0000	49.0457	1.9	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M405878.D 8260WT.M Fri Jul 03 15:34:01 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070615\8M405906.D Vial: 2
Acq On : 6 Jul 2015 14:07 Operator: ADC/ JDS
Sample : WG530075-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 15:10:52 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	764649	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	526463	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	287280	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	180602	25.4584	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.84%			
43) 1,2-Dichloroethane-d4	10.31	65	174990	25.2192	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 100.88%			
58) Toluene-d8	12.69	98	682713	26.2155	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.88%			
80) p-Bromofluorobenzene	16.08	95	254492	24.7956	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	403009	47.8888	ug/L	100
3) Chloromethane	3.62	50	721546	48.0479	ug/L	100
4) Vinyl Chloride	3.85	62	577455	49.9485	ug/L	100
5) 1,3-Butadiene	3.89	54	492738	53.6204	ug/L	99
6) Bromomethane	4.73	94	257522	49.9301	ug/L	97
7) Chloroethane	4.90	64	279303	56.1485	ug/L	99
8) Trichlorofluoromethane	5.39	101	636413	54.6980	ug/L	99
9) Diethyl ether	5.91	59	454252	99.7880	ug/L	99
10) Isoprene	5.95	67	443909	50.6026	ug/L	97
11) Acrolein	6.15	56	12632	39.8052	ug/L	90
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	358001	56.0499	ug/L	98
13) Acetone	6.24	43	55698	59.2905	ug/L	100
14) 1,1-Dichloroethene	6.47	61	608157	54.4567	ug/L	100
15) Tert-Butyl Alcohol	6.59	59	57704	250.3753	ug/L	98
16) Dimethyl Sulfide	6.74	62	323190	53.1077	ug/L	99
17) Iodomethane	6.99	142	244780	44.9129	ug/L	99
18) Methyl acetate	7.00	43	190434	51.0508	ug/L	97
19) Methylene Chloride	7.26	84	365761	51.9333	ug/L	100
20) Carbon Disulfide	7.30	76	1146893	57.1177	ug/L	99
21) Acrylonitrile	7.44	53	80209	58.1095	ug/L	99
22) Methyl Tert Butyl Ether	7.47	73	658777	51.0583	ug/L	100
23) trans-1,2-Dichloroethene	7.71	61	583418	54.0331	ug/L	100
24) n-Hexane	7.80	57	572129	53.5619	ug/L	100
25) Diisopropyl ether	8.14	45	2700688	102.9139	ug/L	100
26) Vinyl Acetate	8.30	43	322883	55.9532	ug/L	99
27) 1,1-Dichloroethane	8.33	63	756120	53.9544	ug/L	100
28) Ethyl-Tert-Butyl ether	8.71	59	2055782	100.9740	ug/L	99
29) 2-Butanone	8.89	43	83575	52.6729	ug/L	99
30) Propionitrile	8.99	54	51825	110.1961	ug/L	97
31) 2,2-Dichloropropane	9.11	77	638944	57.1034	ug/L	100
32) cis-1,2-Dichloroethene	9.17	96	405576	54.3768	ug/L	100
33) Chloroform	9.38	83	683518	53.6169	ug/L	100
34) 1-Bromopropane	9.52	122	62652	50.4323	ug/L	97
35) Bromochloromethane	9.61	130	200324	54.3765	ug/L	99
36) Tetrahydrofuran	9.64	42	241934	228.2571	ug/L	97
38) 1,1,1-Trichloroethane	9.91	97	660804	54.6111	ug/L	97
39) Cyclohexane	9.95	56	703879	48.8388	ug/L	99
40) 1,1-Dichloropropene	10.11	75	547710	56.4772	ug/L	100
41) Tert-Amyl-Methyl ether	10.21	73	1486168	98.1780	ug/L	99
42) Carbon Tetrachloride	10.26	117	593274	54.1335	ug/L	99

(#) = qualifier out of range (m) = manual integration
8M405906.D 8260WT.M Mon Jul 06 15:10:52 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070615\8M405906.D Vial: 2
Acq On : 6 Jul 2015 14:07 Operator: ADC/ JDS
Sample : WG530075-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 15:10:52 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

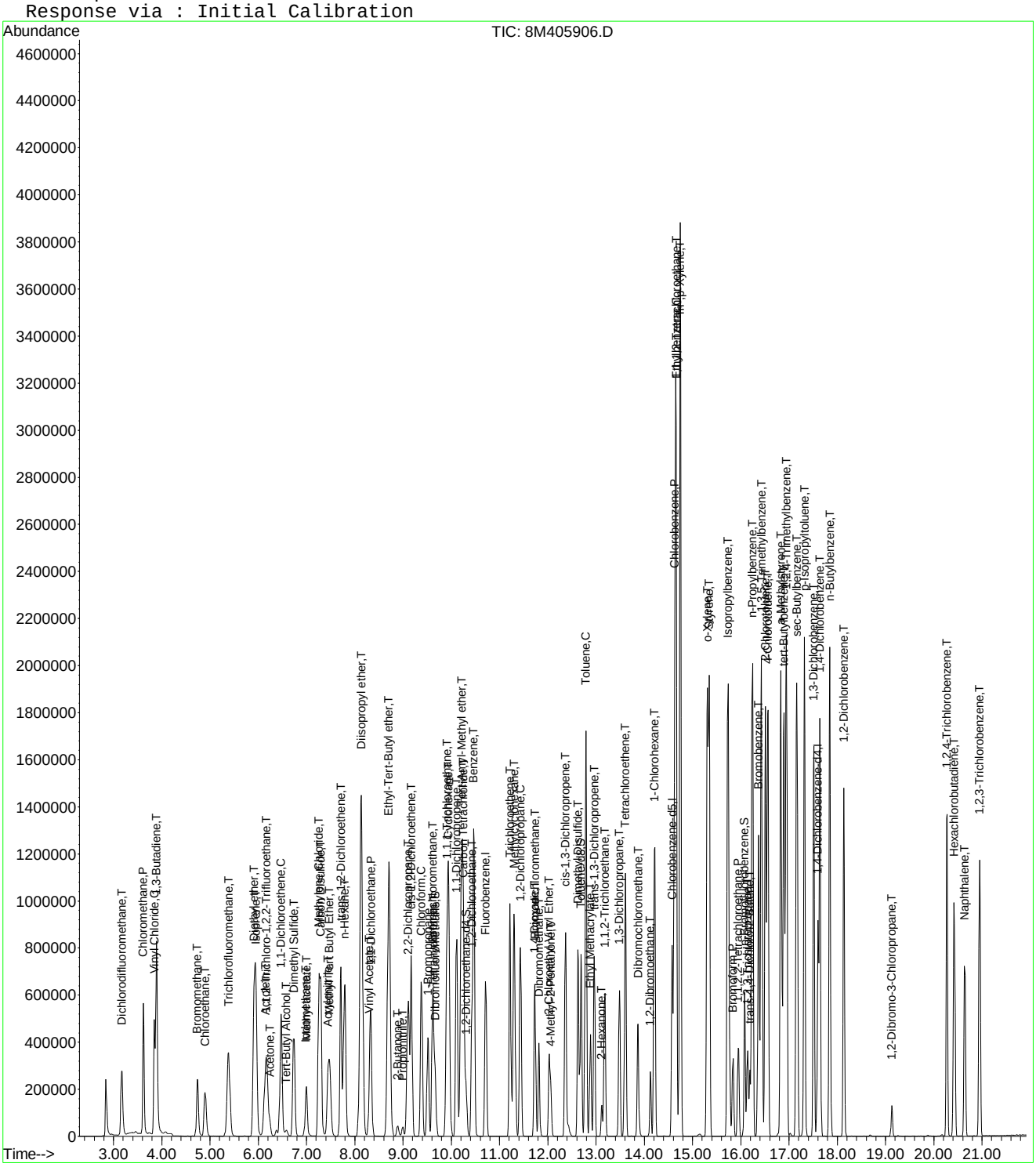
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	458598	52.9070	ug/L		99
46)	Benzene	10.46	78	1479843	53.2235	ug/L		100
47)	Trichloroethene	11.22	130	388787	56.2053	ug/L		98
48)	Methylcyclohexane	11.30	83	578492	51.3030	ug/L		100
49)	1,2-Dichloropropane	11.43	63	411062	53.2943	ug/L		99
50)	Bromodichloromethane	11.73	83	510876	53.6436	ug/L		99
51)	1,4-Dioxane	11.72	88	7047	267.0635	ug/L		96
52)	Dibromomethane	11.82	93	183984	51.6084	ug/L		99
53)	2-Chloroethyl Vinyl Ether	12.02	63	170121	50.4678	ug/L		99
54)	4-Methyl-2-Pentanone	12.07	58	73791	51.4470	ug/L		98
55)	cis-1,3-Dichloropropene	12.37	75	562443	53.2519	ug/L		98
56)	Dimethyl Disulfide	12.62	79	298269	50.7235	ug/L		98
59)	Toluene	12.79	91	1577537	54.4146	ug/L		100
60)	Ethyl Methacrylate	12.88	69	281861	52.7126	ug/L		99
62)	trans-1,3-Dichloropropene	12.96	75	474403	53.0481	ug/L		100
63)	1,1,2-Trichloroethane	13.18	97	234983	52.4418	ug/L		99
64)	2-Hexanone	13.12	58	66104	51.0618	ug/L	#	99
65)	1,3-Dichloropropane	13.48	76	410154	52.2428	ug/L		99
66)	Tetrachloroethene	13.61	164	326995	55.2091	ug/L		99
67)	Dibromochloromethane	13.87	129	322669	49.3268	ug/L		99
68)	1,2-Dibromoethane	14.12	107	227519	52.7589	ug/L		98
69)	1-Chlorohexane	14.22	91	527259	51.8803	ug/L		100
70)	Chlorobenzene	14.63	112	1010305	51.9734	ug/L		99
71)	1,1,1,2-Tetrachloroethane	14.66	131	376410	53.2477	ug/L		100
72)	Ethylbenzene	14.66	106	566273	51.7810	ug/L		98
73)	m-,p-Xylene	14.74	106	1383608	107.4274	ug/L		98
74)	o-Xylene	15.31	106	664098	53.1578	ug/L		99
75)	Styrene	15.34	104	1106458	55.1040	ug/L		99
76)	Bromoform	15.84	173	190132	48.1408	ug/L		98
77)	Isopropylbenzene	15.74	105	1733143	55.3026	ug/L		100
79)	1,1,2,2-Tetrachloroethane	15.94	83	252604	52.1059	ug/L		98
81)	1,2,3-Trichloropropane	16.14	110	70234	50.4560	ug/L		90
82)	trans-1,4-Dichloro-2-Buten	16.19	53	90749	51.5935	ug/L		84
83)	n-Propylbenzene	16.24	91	2195919	56.2402	ug/L		100
84)	Bromobenzene	16.37	156	419515	52.6575	ug/L		99
85)	1,3,5-Trimethylbenzene	16.43	105	1513254	55.5706	ug/L		99
86)	2-Chlorotoluene	16.51	91	1349935	54.7500	ug/L		99
87)	4-Chlorotoluene	16.56	91	1323721	53.0031	ug/L		99
88)	a-Methylstyrene	16.83	118	758606	52.5101	ug/L		99
89)	tert-Butylbenzene	16.89	134	305363	55.0246	ug/L		100
90)	1,2,4-Trimethylbenzene	16.95	105	1539614	55.4662	ug/L		100
91)	sec-Butylbenzene	17.16	105	1869906	57.6249	ug/L		100
92)	p-Isopropyltoluene	17.32	119	1593622	56.5129	ug/L		99
93)	1,3-Dichlorobenzene	17.51	146	844750	53.2682	ug/L		99
94)	1,4-Dichlorobenzene	17.64	146	832753	51.4680	ug/L		98
95)	n-Butylbenzene	17.85	91	1556695	56.2943	ug/L		100
96)	1,2-Dichlorobenzene	18.13	146	725507	51.2349	ug/L		99
97)	1,2-Dibromo-3-Chloropropan	19.13	75	43064	50.2362	ug/L		97
98)	1,2,4-Trichlorobenzene	20.27	180	551793	52.0251	ug/L		99
99)	Hexachlorobutadiene	20.42	225	274377	51.6443	ug/L		100
100)	Naphthalene	20.64	128	718375	51.3781	ug/L		100
101)	1,2,3-Trichlorobenzene	20.95	180	454836	49.3159	ug/L		99

(#) = qualifier out of range (m) = manual integration
8M405906.D 8260WT.M Mon Jul 06 15:10:52 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070615\8M405906.D Vial: 2
Acq On : 6 Jul 2015 14:07 Operator: ADC/ JDS
Sample : WG530075-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 15:10 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration



8M405906.D 8260WT.M Mon Jul 06 15:10:53 2015 Page 3

Continuing Calibration Area and RT check

Instrument: HPMS8
Initial cal date: 3 Jun 2015 20:44
CCV date: 6 Jul 2015 14:07
CCV Filename: 8M405906.D

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Amount	RT	Amount	RT	Amount	RT
InitCal	747857	10.75	566399	14.62	326090	17.64
CCV	764649	10.71	526463	14.58	287280	17.60

Data File : C:\MSDCHEM\2\DATA\070615\8M405906.D Vial: 2
Acq On : 6 Jul 2015 14:07 Operator: ADC/ JDS
Sample : WG530075-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	112	0.00
2	T	Dichlorodifluoromethane	0.2541	0.2635	-3.7	103	0.00
3	P	Chloromethane	0.4910	0.4718	3.9	108	0.00
4	C	Vinyl Chloride	0.3780	0.3776	0.1	109	0.00
5	T	1,3-Butadiene	0.3004	0.3222	-7.2	110	0.00
6	T	Bromomethane	0.1686	0.1684	0.1	109	0.00
7	T	Chloroethane	0.1626	0.1826	-12.3	119	0.00
8	T	Trichlorofluoromethane	0.3804	0.4162	-9.4	119	0.00
9	T	Diethyl ether	0.1488	0.1485	0.2	112	0.00
10	T	Isoprene	0.2536	0.2903	-14.5	121	0.00
11	T	Acrolein	0.0104	0.0083	20.4	96	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.2088	0.2341	-12.1	118	0.00
13	T	Acetone	0.0307	0.0364	-18.6	125	0.00
14	C	1,1-Dichloroethene	0.3651	0.3977	-8.9	120	0.00
15	T	Tert-Butyl Alcohol	0.0075	0.0094	-25.1#	140	0.00
16	T	Dimethyl Sulfide	0.1990	0.2113	-6.2	115	0.00
17	T	Iodomethane	0.1591	0.1601	-0.6	101	0.00
18	T	Methyl acetate	0.1220	0.1245	-2.1	118	0.00
19	T	Methylene Chloride	0.2303	0.2392	-3.9	117	0.00
20	T	Carbon Disulfide	0.6565	0.7500	-14.2	124	0.00
21	T	Acrylonitrile	0.0451	0.0524	-16.2	118	0.00
22	T	Methyl Tert Butyl Ether	0.4218	0.4308	-2.1	108	0.00
23	T	trans-1,2-Dichloroethene	0.3530	0.3815	-8.1	119	0.00
24	T	n-Hexane	0.3492	0.3741	-7.1	124	0.00
25	T	Diisopropyl ether	0.8580	0.8830	-2.9	113	0.00
26	T	Vinyl Acetate	0.1887	0.2111	-11.9	115	0.00
27	P	1,1-Dichloroethane	0.4582	0.4944	-7.9	118	0.00
28	T	Ethyl-Tert-Butyl ether	0.6656	0.6721	-1.0	111	0.00
29	T	2-Butanone	0.0519	0.0546	-5.3	118	0.00
30	T	Propionitrile	0.0154	0.0169	-10.1	117	0.00
31	T	2,2-Dichloropropane	0.3658	0.4178	-14.2	123	0.00
32	T	cis-1,2-Dichloroethene	0.2439	0.2652	-8.8	116	0.00
33	C	Chloroform	0.4168	0.4470	-7.2	116	0.00
34		1-Bromopropane	0.0350	0.0410	-17.0	120	0.00
35	T	Bromochloromethane	0.1205	0.1310	-8.8	114	0.00
36	T	Tetrahydrofuran	0.0347	0.0791	-128.3#	260#	0.00
37	S	Dibromofluoromethane	0.2319	0.2362	-1.8	113	0.00
38	T	1,1,1-Trichloroethane	0.3956	0.4321	-9.2	120	0.00
39	T	Cyclohexane	0.4196	0.4603	-9.7	119	0.00
40	T	1,1-Dichloropropene	0.3171	0.3581	-13.0	120	0.00
41	T	Tert-Amyl-Methyl ether	0.4949	0.4859	1.8	107	0.00
42	T	Carbon Tetrachloride	0.3583	0.3879	-8.3	116	0.00
43	S	1,2-Dichloroethane-d4	0.2269	0.2289	-0.9	108	0.00
44		Heptane	0.0000	0.0000	0.0	0#	-2.54#
45	T	1,2-Dichloroethane	0.2834	0.2999	-5.8	112	0.00
46	T	Benzene	0.9091	0.9677	-6.4	117	-0.01
47	T	Trichloroethene	0.2262	0.2542	-12.4	120	0.00
48	T	Methylcyclohexane	0.3687	0.3783	-2.6	119	0.00
49	C	1,2-Dichloropropane	0.2522	0.2688	-6.6	115	0.00
50	T	Bromodichloromethane	0.3114	0.3341	-7.3	112	0.00
51	T	1,4-Dioxane	0.0008	0.0012	-43.7#	149	0.01
52	T	Dibromomethane	0.1166	0.1203	-3.2	111	0.00
53	T	2-Chloroethyl Vinyl Ether	0.1102	0.1112	-0.9	111	-0.01
54	T	4-Methyl-2-Pentanone	0.0469	0.0483	-2.9	111	0.00

(#) = Out of Range
8M405906.D 8260WT.M Mon Jul 06 15:11:33 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070615\8M405906.D Vial: 2
Acq On : 6 Jul 2015 14:07 Operator: ADC/ JDS
Sample : WG530075-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	cis-1,3-Dichloropropene	0.3453	0.3678	-6.5	111	0.00
56	T	Dimethyl Disulfide	0.1923	0.1950	-1.5	111	0.00
57	I	Chlorobenzene-d5	1.0000	1.0000	0.0	112	0.00
58	S	Toluene-d8	1.2367	1.2968	-4.9	114	0.00
59	C	Toluene	1.3767	1.4982	-8.8	115	0.00
60	T	Ethyl Methacrylate	0.2539	0.2677	-5.4	106	0.00
61		Paraldehyde	0.0000	0.0000	0.0	0#	-13.14#
62	T	trans-1,3-Dichloropropene	0.4247	0.4506	-6.1	110	0.00
63	T	1,1,2-Trichloroethane	0.2128	0.2232	-4.9	109	0.00
64	T	2-Hexanone	0.0615	0.0628	-2.1	109	0.00
65	T	1,3-Dichloropropane	0.3728	0.3895	-4.5	110	0.00
66	T	Tetrachloroethene	0.2813	0.3106	-10.4	117	0.00
67	T	Dibromochloromethane	0.2813	0.3065	-9.0	110	0.00
68	T	1,2-Dibromoethane	0.2048	0.2161	-5.5	111	0.00
69	T	1-Chlorohexane	0.4471	0.5008	-12.0	119	0.00
70	P	Chlorobenzene	0.9231	0.9595	-3.9	114	0.00
71	T	1,1,1,2-Tetrachloroethane	0.3357	0.3575	-6.5	112	0.00
72	C	Ethylbenzene	0.5193	0.5378	-3.6	113	0.00
73	T	m-,p-Xylene	0.6116	0.6570	-7.4	115	0.00
74	T	o-Xylene	0.5933	0.6307	-6.3	115	0.00
75	T	Styrene	0.9535	1.0508	-10.2	112	0.00
76	P	Bromoform	0.1697	0.1806	-6.4	109	0.00
77	T	Isopropylbenzene	1.4882	1.6460	-10.6	114	0.00
78	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	109	0.00
79	P	1,1,2,2-Tetrachloroethane	0.4219	0.4396	-4.2	105	0.00
80	S	p-Bromofluorobenzene	0.8932	0.8859	0.8	107	0.00
81	T	1,2,3-Trichloropropane	0.1211	0.1222	-0.9	107	0.00
82	T	trans-1,4-Dichloro-2-Butene	0.1362	0.1580	-16.0	107	0.00
83	T	n-Propylbenzene	3.3979	3.8219	-12.5	114	0.00
84	T	Bromobenzene	0.6933	0.7301	-5.3	114	0.00
85	T	1,3,5-Trimethylbenzene	2.3697	2.6338	-11.1	114	0.00
86	T	2-Chlorotoluene	2.1457	2.3495	-9.5	114	0.00
87	T	4-Chlorotoluene	2.1734	2.3039	-6.0	111	0.00
88	T	a-Methylstyrene	1.2572	1.3203	-5.0	112	0.00
89	T	tert-Butylbenzene	0.4829	0.5315	-10.0	114	0.00
90	T	1,2,4-Trimethylbenzene	2.4156	2.6796	-10.9	113	0.00
91	T	sec-Butylbenzene	2.8239	3.2545	-15.3	114	0.00
92	T	p-Isopropyltoluene	2.4540	2.7736	-13.0	114	0.00
93	T	1,3-Dichlorobenzene	1.3801	1.4703	-6.5	112	0.00
94	T	1,4-Dichlorobenzene	1.4080	1.4494	-2.9	113	0.00
95	T	n-Butylbenzene	2.4064	2.7094	-12.6	114	0.00
96	T	1,2-Dichlorobenzene	1.2323	1.2627	-2.5	109	0.00
97	T	1,2-Dibromo-3-Chloropropane	0.0746	0.0750	-0.5	102	0.00
98	T	1,2,4-Trichlorobenzene	0.9230	0.9604	-4.0	110	0.00
99	T	Hexachlorobutadiene	0.4690	0.4775	-1.8	113	-0.01
100	T	Naphthalene	1.2168	1.2503	-2.8	104	-0.01
101	T	1,2,3-Trichlorobenzene	0.8026	0.7916	1.4	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M405906.D 8260WT.M Mon Jul 06 15:11:33 2015 Page 2

Data File : C:\MSDCHEM\2\DATA\070615\8M405906.D Vial: 2
Acq On : 6 Jul 2015 14:07 Operator: ADC/ JDS
Sample : WG530075-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
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	112	0.00
2	T	Dichlorodifluoromethane	50.0000	47.8888	4.2	103	0.00
3	P	Chloromethane	50.0000	48.0479	3.9	108	0.00
4	C	Vinyl Chloride	50.0000	49.9485	0.1	109	0.00
5	T	1,3-Butadiene	50.0000	53.6204	-7.2	110	0.00
6	T	Bromomethane	50.0000	49.9301	0.1	109	0.00
7	T	Chloroethane	50.0000	56.1486	-12.3	119	0.00
8	T	Trichlorofluoromethane	50.0000	54.6980	-9.4	119	0.00
9	T	Diethyl ether	100.0000	99.7880	0.2	112	0.00
10	T	Isoprene	50.0000	50.6026	-1.2	121	0.00
11	T	Acrolein	50.0000	39.8052	20.4	96	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	56.0499	-12.1	118	0.00
13	T	Acetone	50.0000	59.2905	-18.6	125	0.00
14	C	1,1-Dichloroethene	50.0000	54.4567	-8.9	120	0.00
15	T	Tert-Butyl Alcohol	200.0000	250.3753	-25.2#	140	0.00
16	T	Dimethyl Sulfide	50.0000	53.1077	-6.2	115	0.00
17	T	Iodomethane	50.0000	44.9130	10.2	101	0.00
18	T	Methyl acetate	50.0000	51.0508	-2.1	118	0.00
19	T	Methylene Chloride	50.0000	51.9333	-3.9	117	0.00
20	T	Carbon Disulfide	50.0000	57.1177	-14.2	124	0.00
21	T	Acrylonitrile	50.0000	58.1095	-16.2	118	0.00
22	T	Methyl Tert Butyl Ether	50.0000	51.0583	-2.1	108	0.00
23	T	trans-1,2-Dichloroethene	50.0000	54.0331	-8.1	119	0.00
24	T	n-Hexane	50.0000	53.5619	-7.1	124	0.00
25	T	Diisopropyl ether	100.0000	102.9139	-2.9	113	0.00
26	T	Vinyl Acetate	50.0000	55.9532	-11.9	115	0.00
27	P	1,1-Dichloroethane	50.0000	53.9544	-7.9	118	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	100.9741	-1.0	111	0.00
29	T	2-Butanone	50.0000	52.6729	-5.3	118	0.00
30	T	Propionitrile	100.0000	110.1961	-10.2	117	0.00
31	T	2,2-Dichloropropane	50.0000	57.1034	-14.2	123	0.00
32	T	cis-1,2-Dichloroethene	50.0000	54.3768	-8.8	116	0.00
33	C	Chloroform	50.0000	53.6170	-7.2	116	0.00
34		1-Bromopropane	50.0000	50.4324	-0.9	120	0.00
35	T	Bromochloromethane	50.0000	54.3764	-8.8	114	0.00
36	T	Tetrahydrofuran	100.0000	228.2571	-128.3#	260	0.00
37	S	Dibromofluoromethane	25.0000	25.4584	-1.8	113	0.00
38	T	1,1,1-Trichloroethane	50.0000	54.6111	-9.2	120	0.00
39	T	Cyclohexane	50.0000	48.8388	2.3	119	0.00
40	T	1,1-Dichloropropene	50.0000	56.4772	-13.0	120	0.00
41	T	Tert-Amyl-Methyl ether	100.0000	98.1780	1.8	107	0.00
42	T	Carbon Tetrachloride	50.0000	54.1335	-8.3	116	0.00
43	S	1,2-Dichloroethane-d4	25.0000	25.2192	-0.9	108	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	50.0000	52.9070	-5.8	112	0.00
46	T	Benzene	50.0000	53.2235	-6.4	117	-0.01
47	T	Trichloroethene	50.0000	56.2053	-12.4	120	0.00
48	T	Methylcyclohexane	50.0000	51.3030	-2.6	119	0.00
49	C	1,2-Dichloropropane	50.0000	53.2943	-6.6	115	0.00
50	T	Bromodichloromethane	50.0000	53.6436	-7.3	112	0.00
51	T	1,4-Dioxane	200.0000	267.0635	-33.5#	149	0.01
52	T	Dibromomethane	50.0000	51.6084	-3.2	111	0.00
53	T	2-Chloroethyl Vinyl Ether	50.0000	50.4678	-0.9	111	-0.01
54	T	4-Methyl-2-Pentanone	50.0000	51.4470	-2.9	111	0.00

(#) = Out of Range
8M405906.D 8260WT.M Mon Jul 06 15:13:21 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\070615\8M405906.D Vial: 2
Acq On : 6 Jul 2015 14:07 Operator: ADC/ JDS
Sample : WG530075-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD71244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Multiple Level Calibration

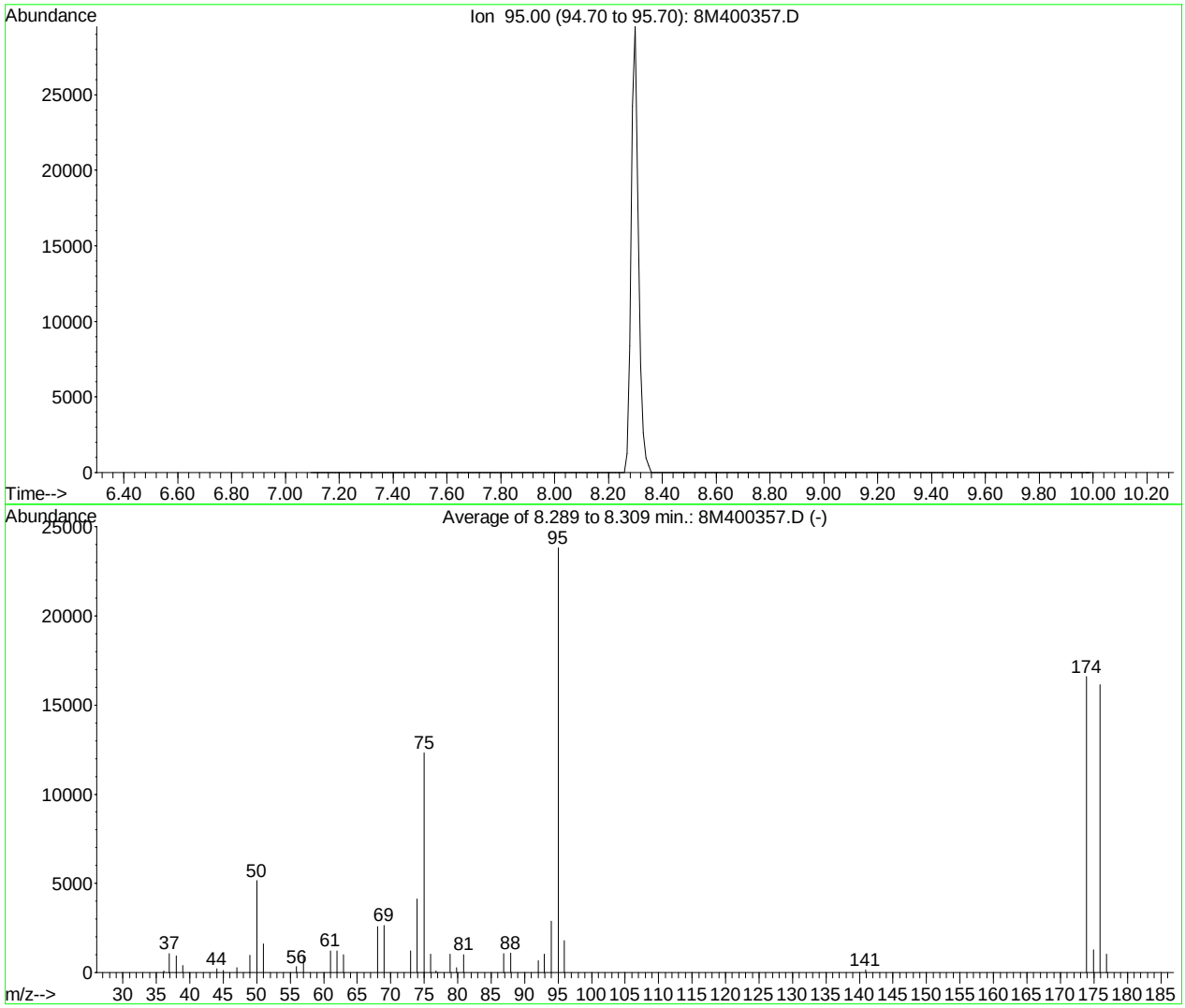
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	50.0000	53.2519	-6.5	111	0.00
56	T	Dimethyl Disulfide	50.0000	50.7235	-1.4	111	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	112	0.00
58	S	Toluene-d8	25.0000	26.2155	-4.9	114	0.00
59	C	Toluene	50.0000	54.4146	-8.8	115	0.00
60	T	Ethyl Methacrylate	50.0000	52.7126	-5.4	106	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	50.0000	53.0481	-6.1	110	0.00
63	T	1,1,2-Trichloroethane	50.0000	52.4418	-4.9	109	0.00
64	T	2-Hexanone	50.0000	51.0618	-2.1	109	0.00
65	T	1,3-Dichloropropane	50.0000	52.2428	-4.5	110	0.00
66	T	Tetrachloroethene	50.0000	55.2091	-10.4	117	0.00
67	T	Dibromochloromethane	50.0000	49.3268	1.3	110	0.00
68	T	1,2-Dibromoethane	50.0000	52.7589	-5.5	111	0.00
69	T	1-Chlorohexane	50.0000	51.8803	-3.8	119	0.00
70	P	Chlorobenzene	50.0000	51.9734	-3.9	114	0.00
71	T	1,1,1,2-Tetrachloroethane	50.0000	53.2477	-6.5	112	0.00
72	C	Ethylbenzene	50.0000	51.7810	-3.6	113	0.00
73	T	m-,p-Xylene	100.0000	107.4274	-7.4	115	0.00
74	T	o-Xylene	50.0000	53.1578	-6.3	115	0.00
75	T	Styrene	50.0000	55.1040	-10.2	112	0.00
76	P	Bromoform	50.0000	48.1408	3.7	109	0.00
77	T	Isopropylbenzene	50.0000	55.3026	-10.6	114	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	109	0.00
79	P	1,1,2,2-Tetrachloroethane	50.0000	52.1059	-4.2	105	0.00
80	S	p-Bromofluorobenzene	25.0000	24.7955	0.8	107	0.00
81	T	1,2,3-Trichloropropane	50.0000	50.4560	-0.9	107	0.00
82	T	trans-1,4-Dichloro-2-Butene	50.0000	51.5935	-3.2	107	0.00
83	T	n-Propylbenzene	50.0000	56.2402	-12.5	114	0.00
84	T	Bromobenzene	50.0000	52.6575	-5.3	114	0.00
85	T	1,3,5-Trimethylbenzene	50.0000	55.5706	-11.1	114	0.00
86	T	2-Chlorotoluene	50.0000	54.7500	-9.5	114	0.00
87	T	4-Chlorotoluene	50.0000	53.0031	-6.0	111	0.00
88	T	a-Methylstyrene	50.0000	52.5101	-5.0	112	0.00
89	T	tert-Butylbenzene	50.0000	55.0246	-10.0	114	0.00
90	T	1,2,4-Trimethylbenzene	50.0000	55.4662	-10.9	113	0.00
91	T	sec-Butylbenzene	50.0000	57.6249	-15.2	114	0.00
92	T	p-Isopropyltoluene	50.0000	56.5129	-13.0	114	0.00
93	T	1,3-Dichlorobenzene	50.0000	53.2682	-6.5	112	0.00
94	T	1,4-Dichlorobenzene	50.0000	51.4680	-2.9	113	0.00
95	T	n-Butylbenzene	50.0000	56.2943	-12.6	114	0.00
96	T	1,2-Dichlorobenzene	50.0000	51.2349	-2.5	109	0.00
97	T	1,2-Dibromo-3-Chloropropane	50.0000	50.2362	-0.5	102	0.00
98	T	1,2,4-Trichlorobenzene	50.0000	52.0251	-4.1	110	0.00
99	T	Hexachlorobutadiene	50.0000	51.6443	-3.3	113	-0.01
100	T	Naphthalene	50.0000	51.3781	-2.8	104	-0.01
101	T	1,2,3-Trichlorobenzene	50.0000	49.3159	1.4	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M405906.D 8260WT.M Mon Jul 06 15:13:21 2015 Page 2

2.1.1.5 Raw QC Data

Data File : C:\MSDCHEM\2\DATA\100214\8M400357.D Vial: 3
Acq On : 2 Oct 2014 11:58 Operator: TMB
Sample : WG494714-01 50ng BFB STD 8260 Inst : HPMS8
Misc : 1,1 STD66476 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\2\METHODS\BFB.M (RTE Integrator)
Title : SOP:OVL MSV01

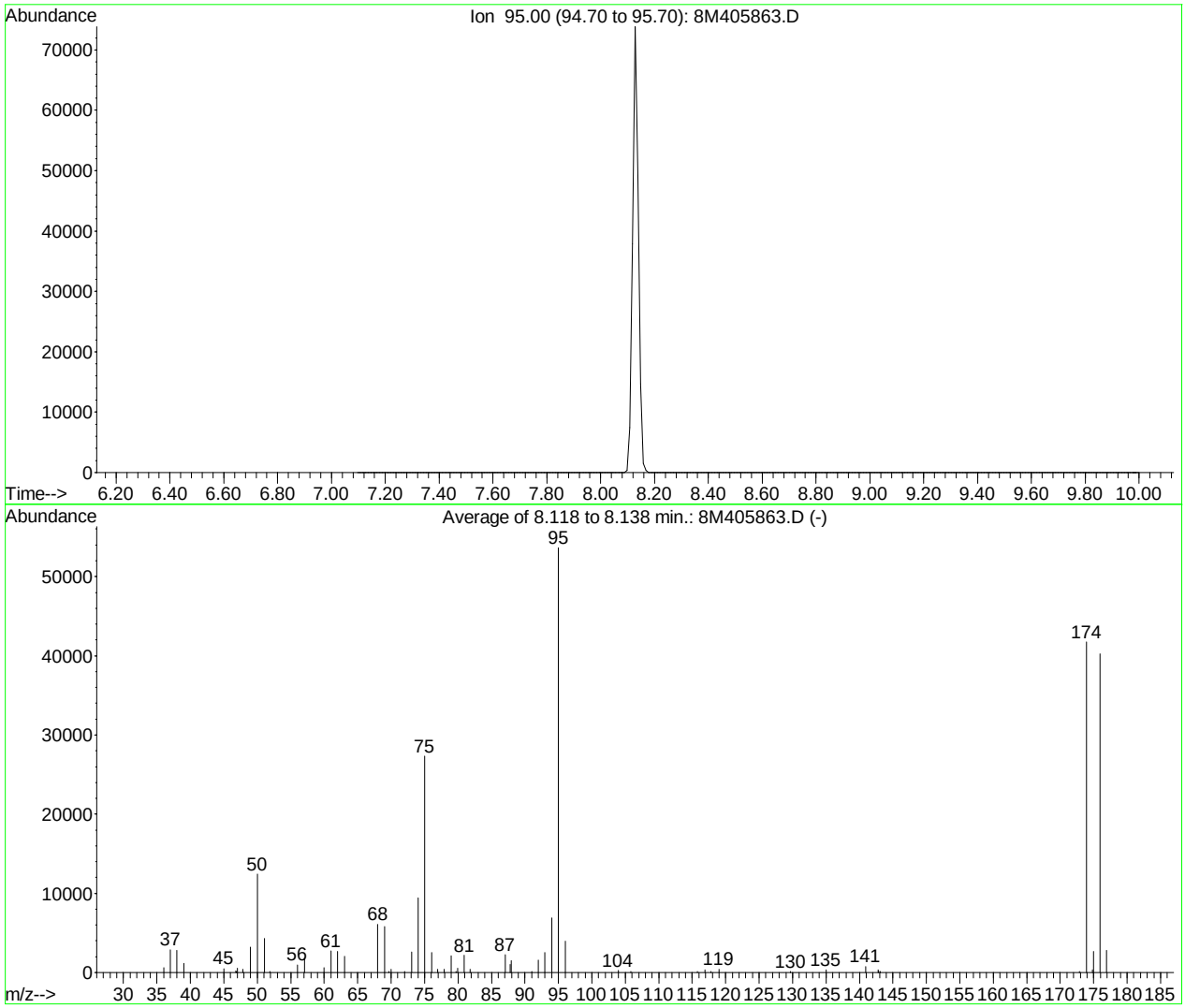


AutoFind: Scans 118, 119, 120; Background Corrected with Scan 113

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	5158	PASS
75	95	30	60	51.7	12312	PASS
95	95	100	100	100.0	23818	PASS
96	95	5	9	7.6	1800	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.7	16590	PASS
175	174	5	9	7.8	1290	PASS
176	174	95	101	97.3	16145	PASS
177	176	5	9	6.3	1023	PASS

8M400357.D BFB.M Thu Oct 02 12:09:27 2014

```
Data File : C:\MSDCHEM\2\DATA\070215\8M405863.D          Vial: 1
Acq On    :  2 Jul 2015  14:44                      Operator: ADC/ JDS
Sample    : WG529657-01 50ng BFB STD 8260           Inst    : HPMS8
Misc      : 1,1 STD71200                            Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\MSDCHEM\2\METHODS\BFB.M (RTE Integrator)
Title     : SOP:OVL MSV01
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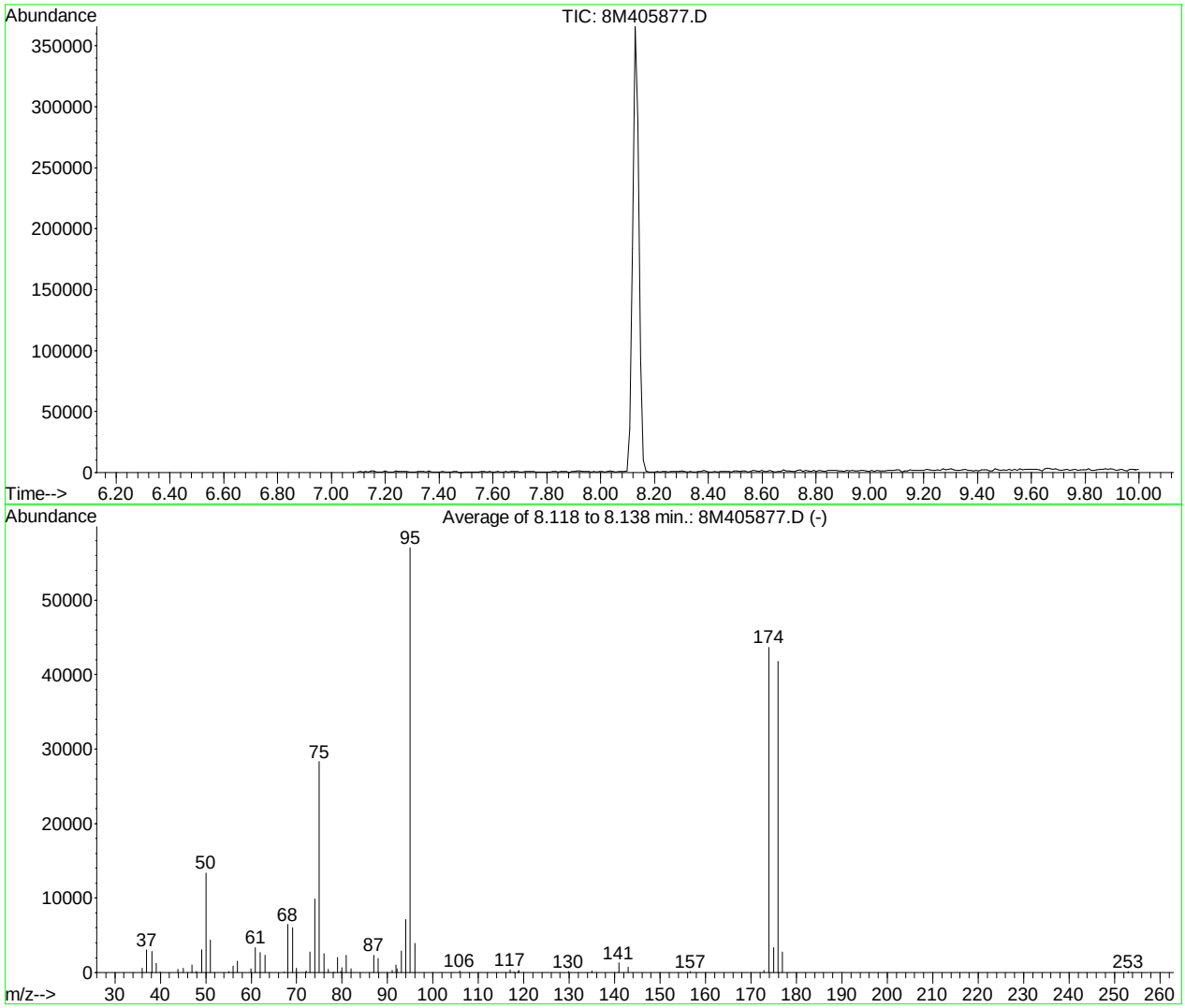


AutoFind: Scans 101, 102, 103; Background Corrected with Scan 96

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.2	12420	PASS
75	95	30	60	50.9	27314	PASS
95	95	100	100	100.0	53624	PASS
96	95	5	9	7.4	3952	PASS
173	174	0.00	2	0.4	164	PASS
174	95	50	100	77.8	41722	PASS
175	174	5	9	6.4	2684	PASS
176	174	95	101	96.4	40240	PASS
177	176	5	9	7.0	2828	PASS

8M405863.D BFB.M Wed Jul 08 10:50:12 2015

Data File : C:\MSDCHEM\2\DATA\070315\8M405877.D Vial: 1
Acq On : 3 Jul 2015 14:18 Operator: ADC/ JDS
Sample : WG529902-01 50ng BFB STD 8260 Inst : HPMS8
Misc : 1,1 STD71200 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8

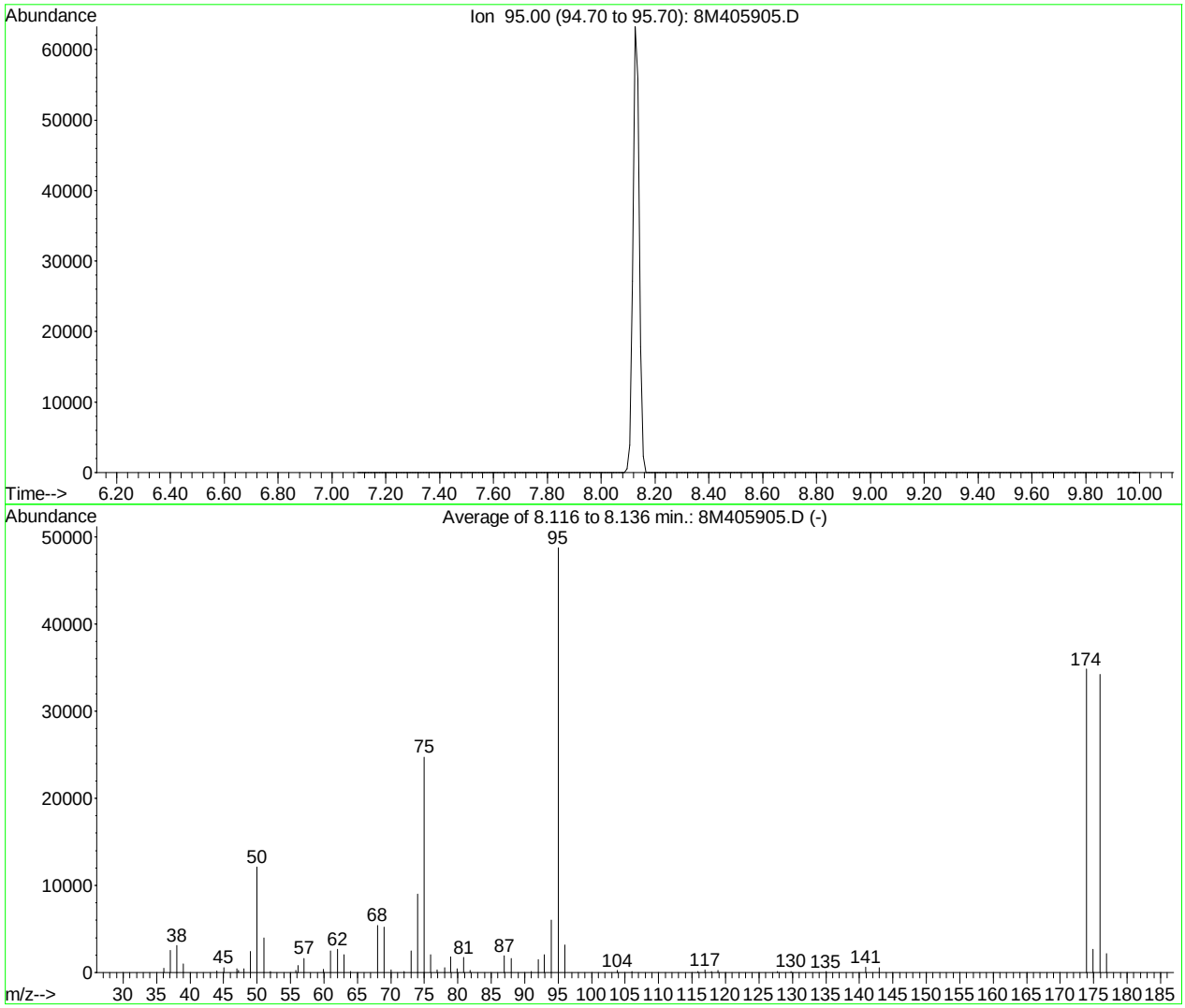


AutoFind: Scans 101, 102, 103; Background Corrected with Scan 96

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	13396	PASS
75	95	30	60	49.7	28320	PASS
95	95	100	100	100.0	57016	PASS
96	95	5	9	6.9	3934	PASS
173	174	0.00	2	0.7	309	PASS
174	95	50	100	76.6	43690	PASS
175	174	5	9	7.7	3367	PASS
176	174	95	101	95.6	41770	PASS
177	176	5	9	6.7	2786	PASS

8M405877.D 8260WT.M Fri Jul 03 15:34:28 2015

```
Data File : C:\MSDCHEM\2\DATA\070615\8M405905.D          Vial: 1
Acq On    :  6 Jul 2015  13:44                      Operator: ADC/ JDS
Sample    : WG530075-01 50ng BFB STD 8260           Inst    : HPMS8
Misc      : 1,1 STD71200                            Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title     : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
```



AutoFind: Scans 101, 102, 103; Background Corrected with Scan 96

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.9	12119	PASS
75	95	30	60	50.7	24733	PASS
95	95	100	100	100.0	48744	PASS
96	95	5	9	6.5	3179	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.4	34827	PASS
175	174	5	9	7.6	2661	PASS
176	174	95	101	98.3	34237	PASS
177	176	5	9	6.4	2204	PASS

8M405905.D 8260WT.M Tue Jul 07 09:38:09 2015

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405879.D Vial: 3
Acq On : 3 Jul 2015 15:10 Operator: ADC/ JDS
Sample : WG529903-01 BLANK STD 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:46:27 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

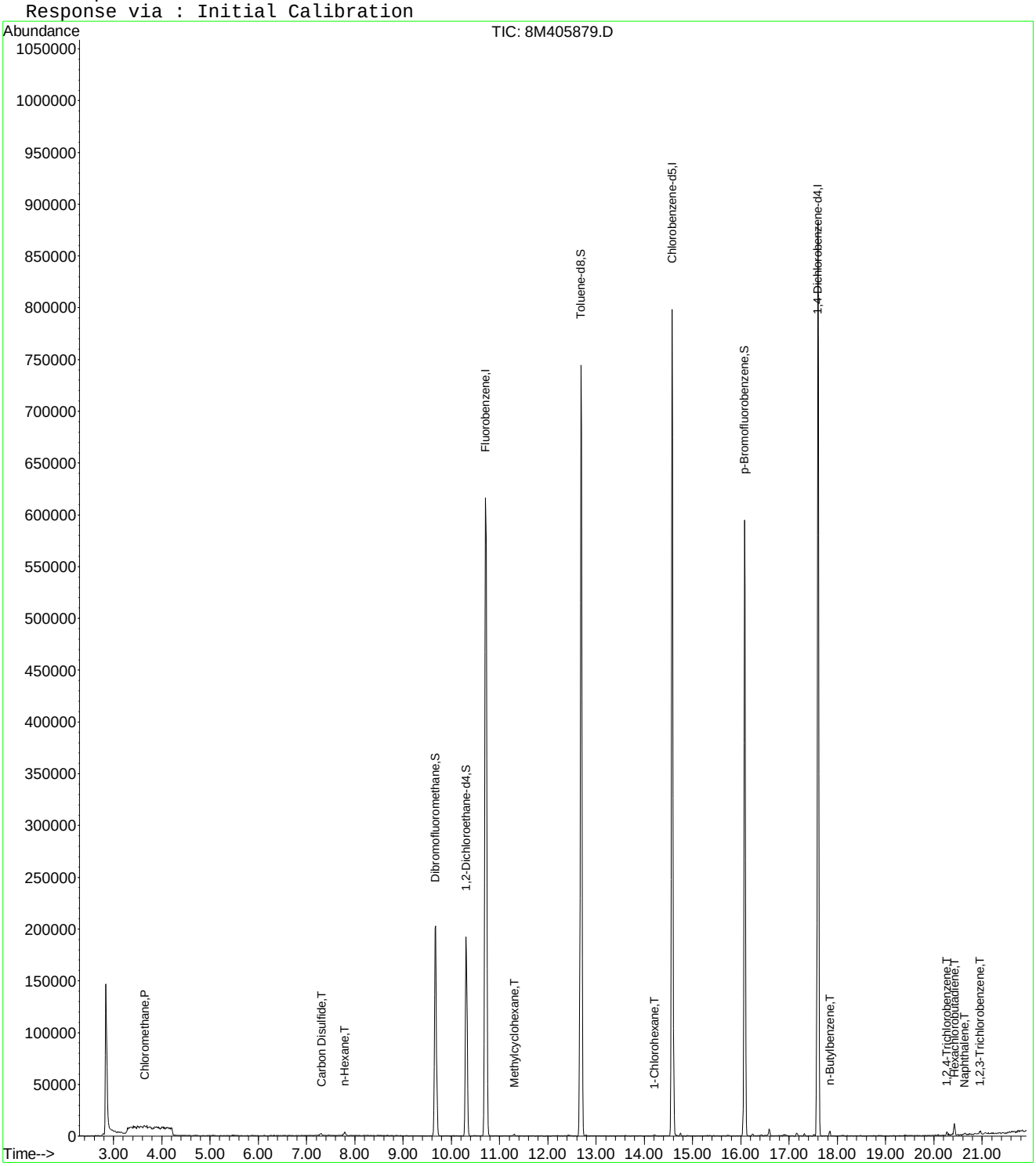
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	743694	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	523612	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	279262	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	170734	24.7455	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.00%			
43) 1,2-Dichloroethane-d4	10.31	65	168262	24.9329	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 99.72%			
58) Toluene-d8	12.68	98	665312	25.6864	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.76%			
80) p-Bromofluorobenzene	16.08	95	250939	25.1514	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.60%			
Target Compounds						Qvalue
3) Chloromethane	3.65	50	3091	0.2116	ug/L #	56
20) Carbon Disulfide	7.31	76	4114	0.2107	ug/L	90
24) n-Hexane	7.79	57	2231	0.2147	ug/L	68
48) Methylcyclohexane	11.31	83	1522	0.1388	ug/L #	57
69) 1-Chlorohexane	14.22	91	1007	0.2598	ug/L	81
95) n-Butylbenzene	17.84	91	5013	0.1865	ug/L #	83
98) 1,2,4-Trichlorobenzene	20.27	180	2068	0.2006	ug/L #	82
99) Hexachlorobutadiene	20.43	225	3083	0.5656	ug/L	88
100) Naphthalene	20.64	128	2582	0.1900	ug/L #	67
101) 1,2,3-Trichlorobenzene	20.96	180	1839	0.2051	ug/L #	75

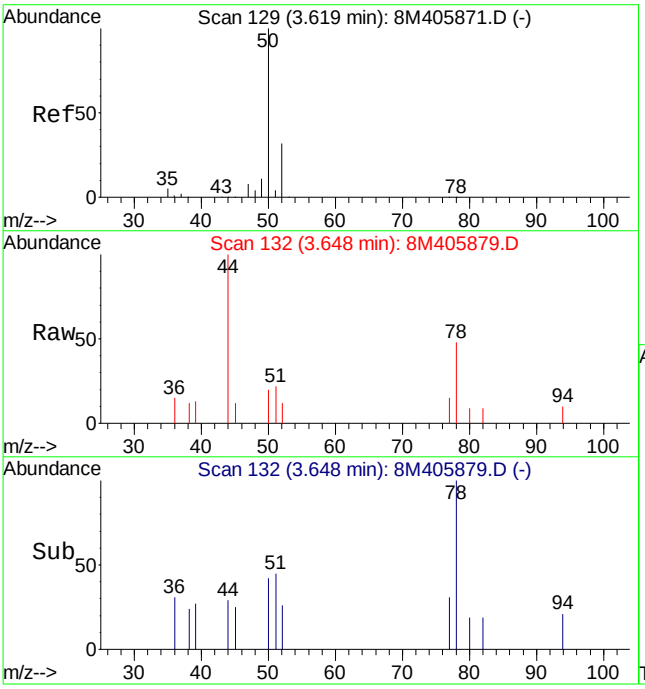
(#) = qualifier out of range (m) = manual integration
8M405879.D 8260WT.M Thu Jul 09 10:37:32 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405879.D Vial: 3
Acq On : 3 Jul 2015 15:10 Operator: ADC/ JDS
Sample : WG529903-01 BLANK STD 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:46 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

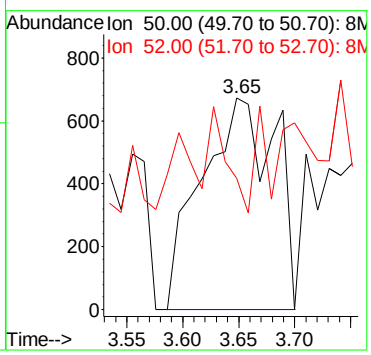


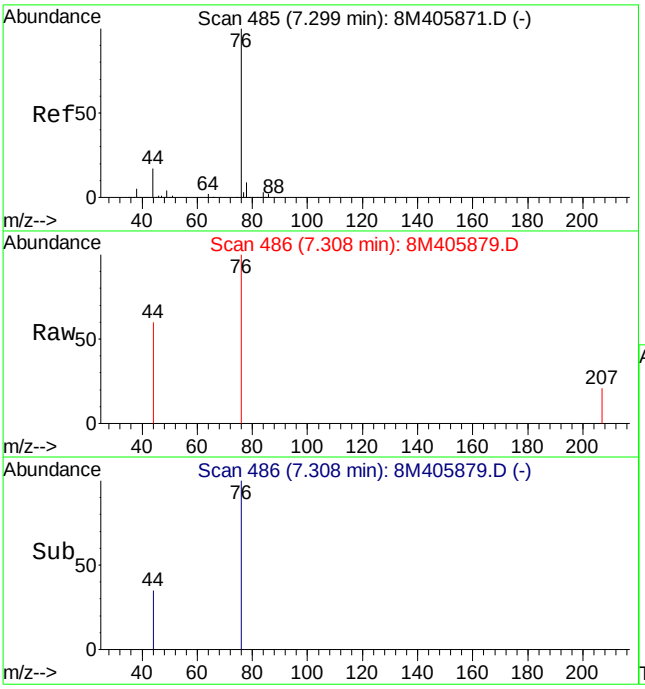


#3
Chloromethane
Concen: 0.21 ug/L
RT: 3.65 min Scan# 132
Delta R.T. 0.03 min
Lab File: 8M405879.D
Acq: 3 Jul 2015 15:10

Tgt Ion: 50 Resp: 3091

Ion	Ratio	Lower	Upper
50	100		
52	7.7	19.2	44.8#

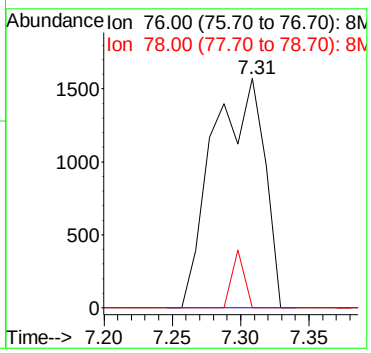


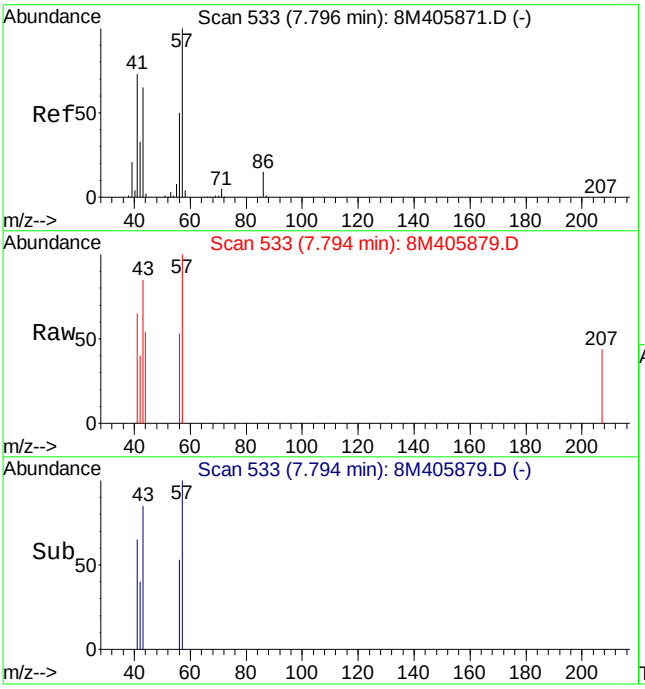


#20
Carbon Disulfide
Concen: 0.21 ug/L
RT: 7.31 min Scan# 486
Delta R.T. 0.01 min
Lab File: 8M405879.D
Acq: 3 Jul 2015 15:10

Tgt Ion: 76 Resp: 4114

Ion	Ratio	Lower	Upper
76	100		
78	6.0	5.7	13.3

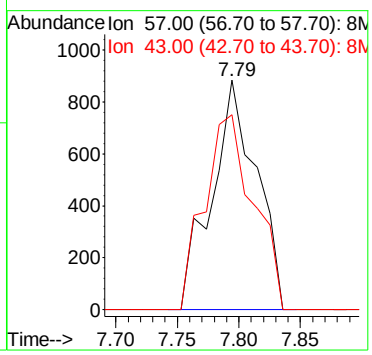


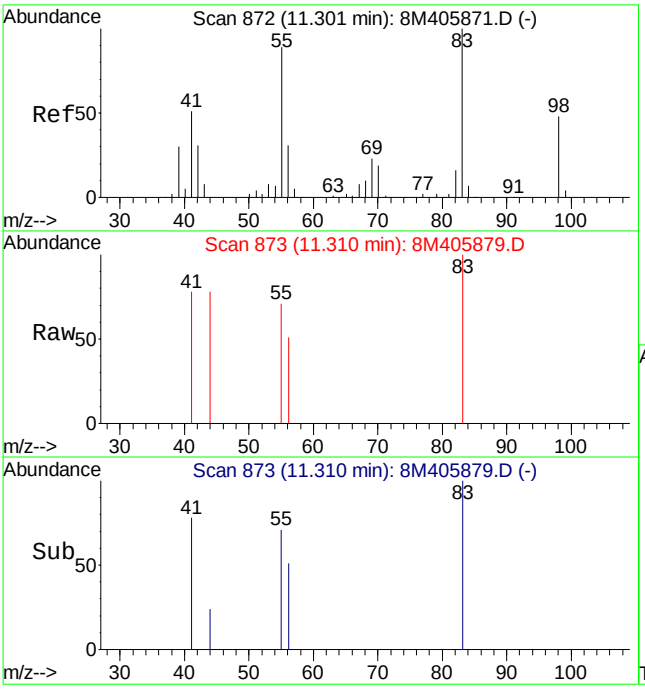


#24
n-Hexane
Concen: 0.21 ug/L
RT: 7.79 min Scan# 533
Delta R.T. -0.00 min
Lab File: 8M405879.D
Acq: 3 Jul 2015 15:10

Tgt Ion: 57 Resp: 2231

Ion	Ratio	Lower	Upper
57	100		
43	93.5	40.6	94.6

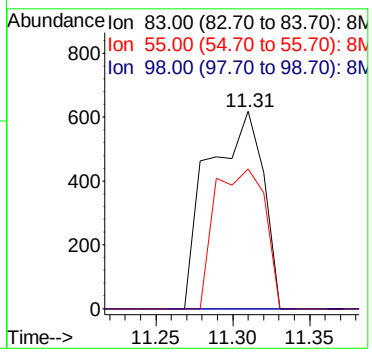


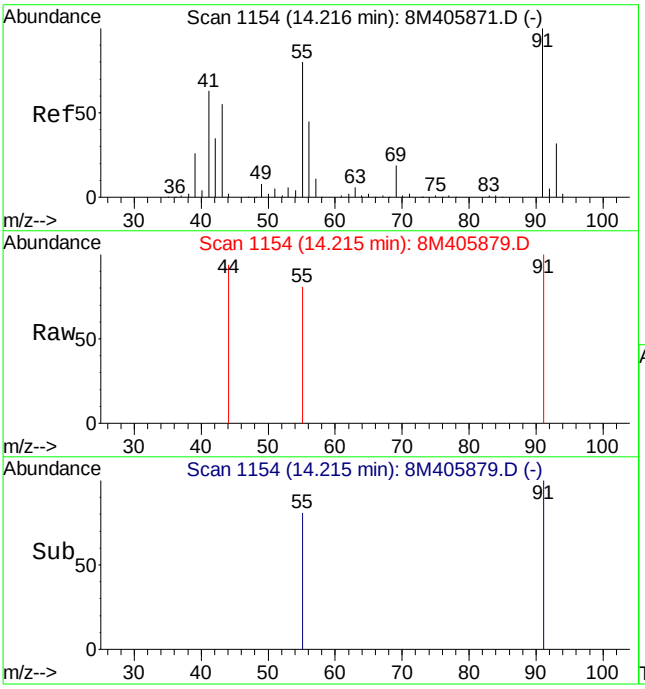


#48
Methylcyclohexane
Concen: 0.14 ug/L
RT: 11.31 min Scan# 873
Delta R.T. 0.01 min
Lab File: 8M405879.D
Acq: 3 Jul 2015 15:10

Tgt Ion: 83 Resp: 1522

Ion	Ratio	Lower	Upper
83	100		
55	65.1	54.8	128.0
98	0.0	29.0	67.8#

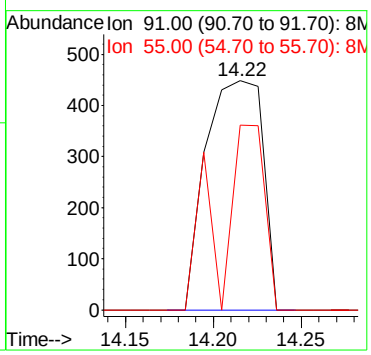


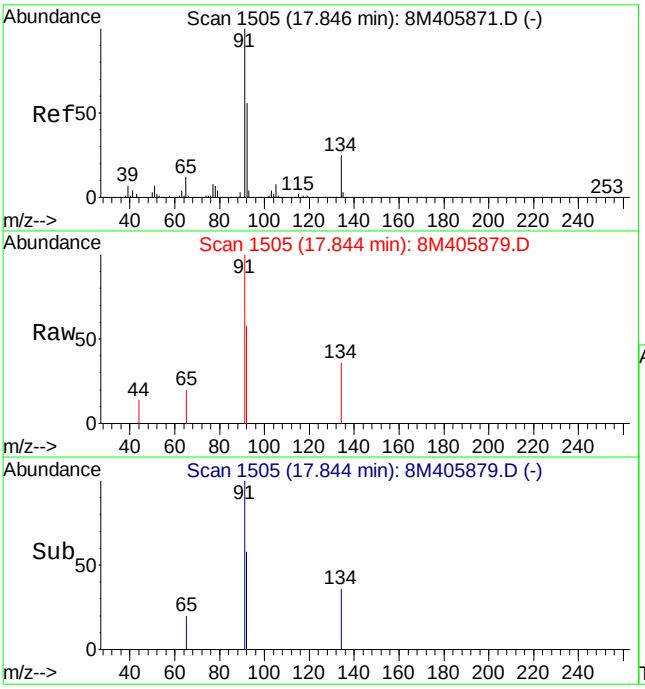


#69
1-Chlorohexane
Concen: 0.26 ug/L
RT: 14.22 min Scan# 1154
Delta R.T. -0.00 min
Lab File: 8M405879.D
Acq: 3 Jul 2015 15:10

Tgt Ion: 91 Resp: 1007

Ion	Ratio	Lower	Upper
91	100		
55	63.5	48.3	112.7

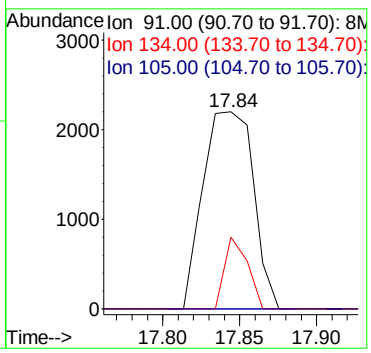


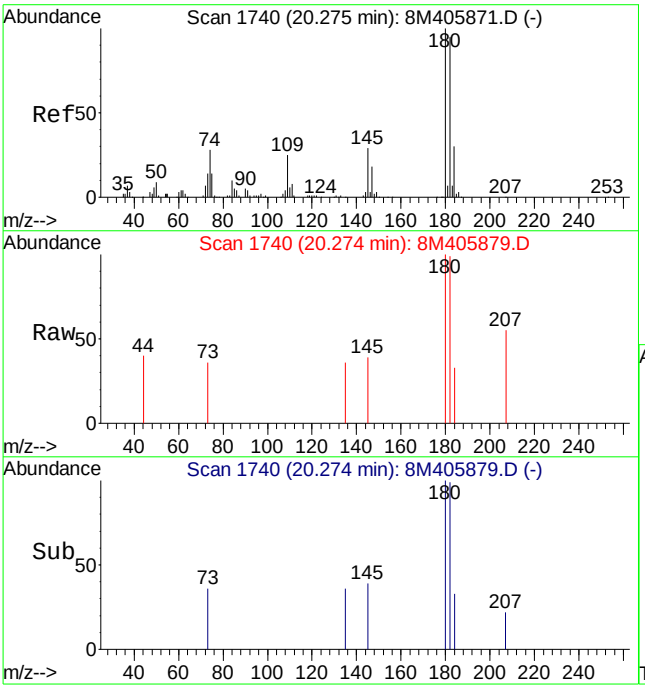


#95
n-Butylbenzene
Concen: 0.19 ug/L
RT: 17.84 min Scan# 1505
Delta R.T. -0.00 min
Lab File: 8M405879.D
Acq: 3 Jul 2015 15:10

Tgt Ion: 91 Resp: 5013

Ion	Ratio	Lower	Upper
91	100		
134	16.5	14.4	33.6
105	0.0	5.0	11.8#

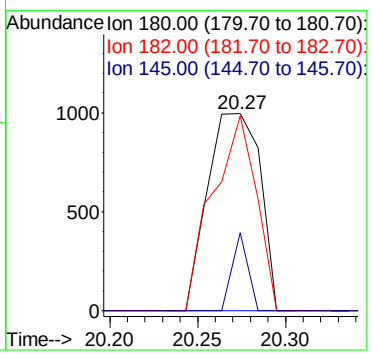


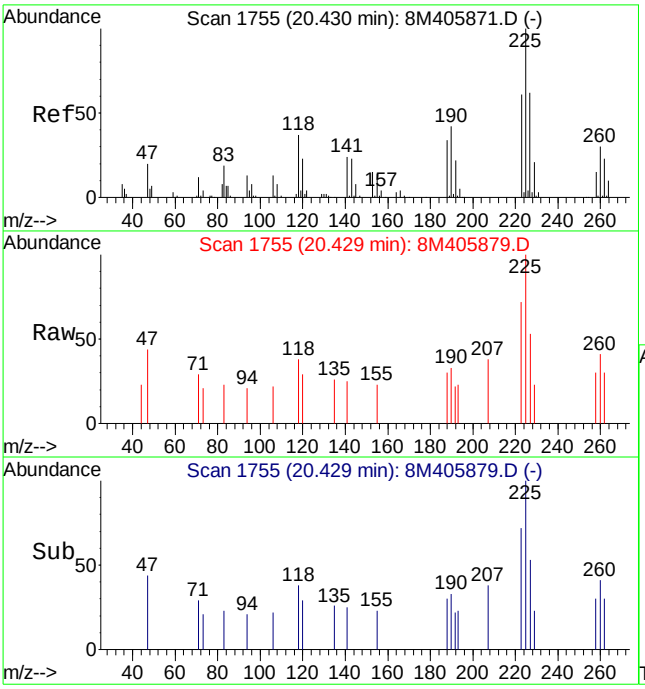


#98
1,2,4-Trichlorobenzene
Concen: 0.20 ug/L
RT: 20.27 min Scan# 1740
Delta R.T. -0.00 min
Lab File: 8M405879.D
Acq: 3 Jul 2015 15:10

Tgt Ion:180 Resp: 2068

Ion	Ratio	Lower	Upper
180	100		
182	82.1	57.1	133.1
145	11.8	18.0	42.0#

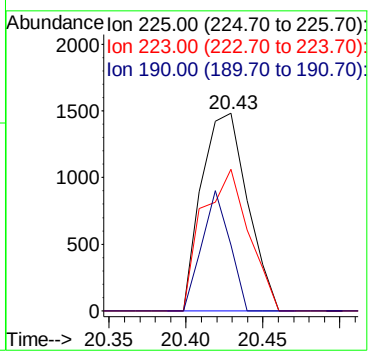


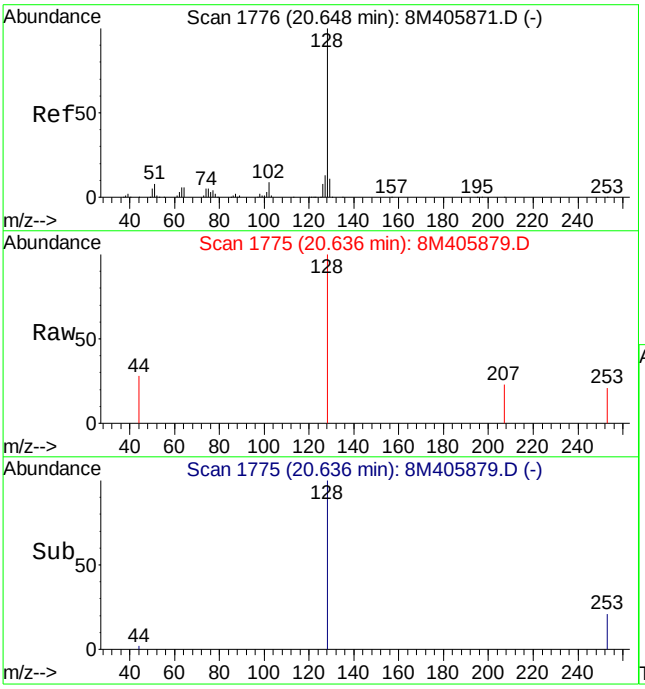


#99
Hexachlorobutadiene
Concen: 0.57 ug/L
RT: 20.43 min Scan# 1755
Delta R.T. -0.00 min
Lab File: 8M405879.D
Acq: 3 Jul 2015 15:10

Tgt Ion:225 Resp: 3083

Ion	Ratio	Lower	Upper
225	100		
223	71.9	37.4	87.4
190	36.7	26.6	62.2

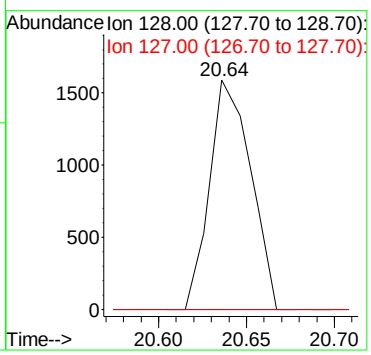


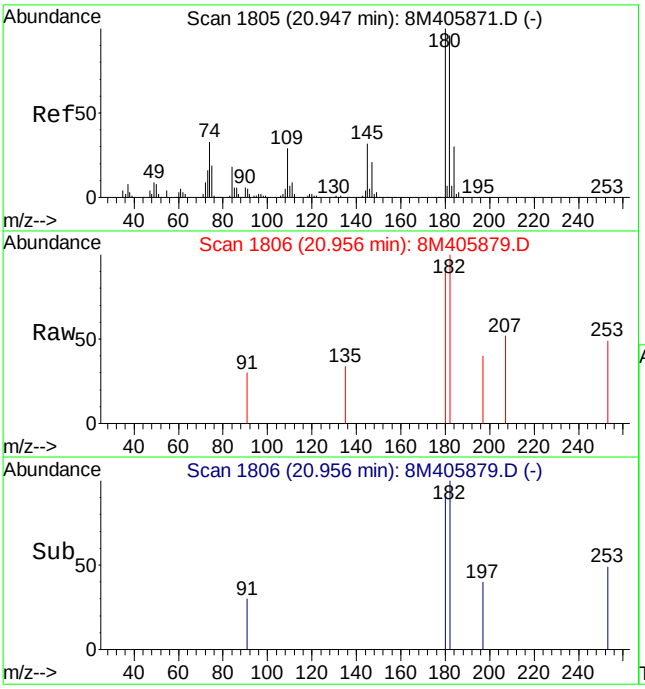


#100
Naphthalene
Concen: 0.19 ug/L
RT: 20.64 min Scan# 1775
Delta R.T. -0.01 min
Lab File: 8M405879.D
Acq: 3 Jul 2015 15:10

Tgt Ion:128 Resp: 2582

Ion	Ratio	Lower	Upper
128	100		
127	0.0	8.0	18.6#

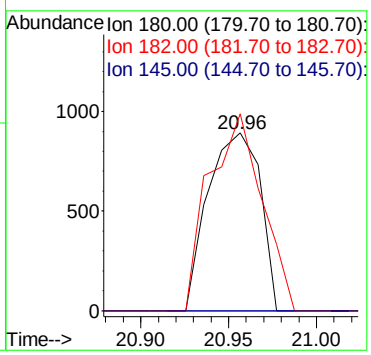




#101
1,2,3-Trichlorobenzene
Concen: 0.21 ug/L
RT: 20.96 min Scan# 1806
Delta R.T. 0.01 min
Lab File: 8M405879.D
Acq: 3 Jul 2015 15:10

Tgt Ion:180 Resp: 1839

Ion	Ratio	Lower	Upper
180	100		
182	112.6	58.3	135.9
145	0.0	18.2	42.4#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070615\8M405908.D Vial: 4
Acq On : 6 Jul 2015 15:05 Operator: ADC/ JDS
Sample : WG530076-01 BLANK STD 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 07 10:08:47 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

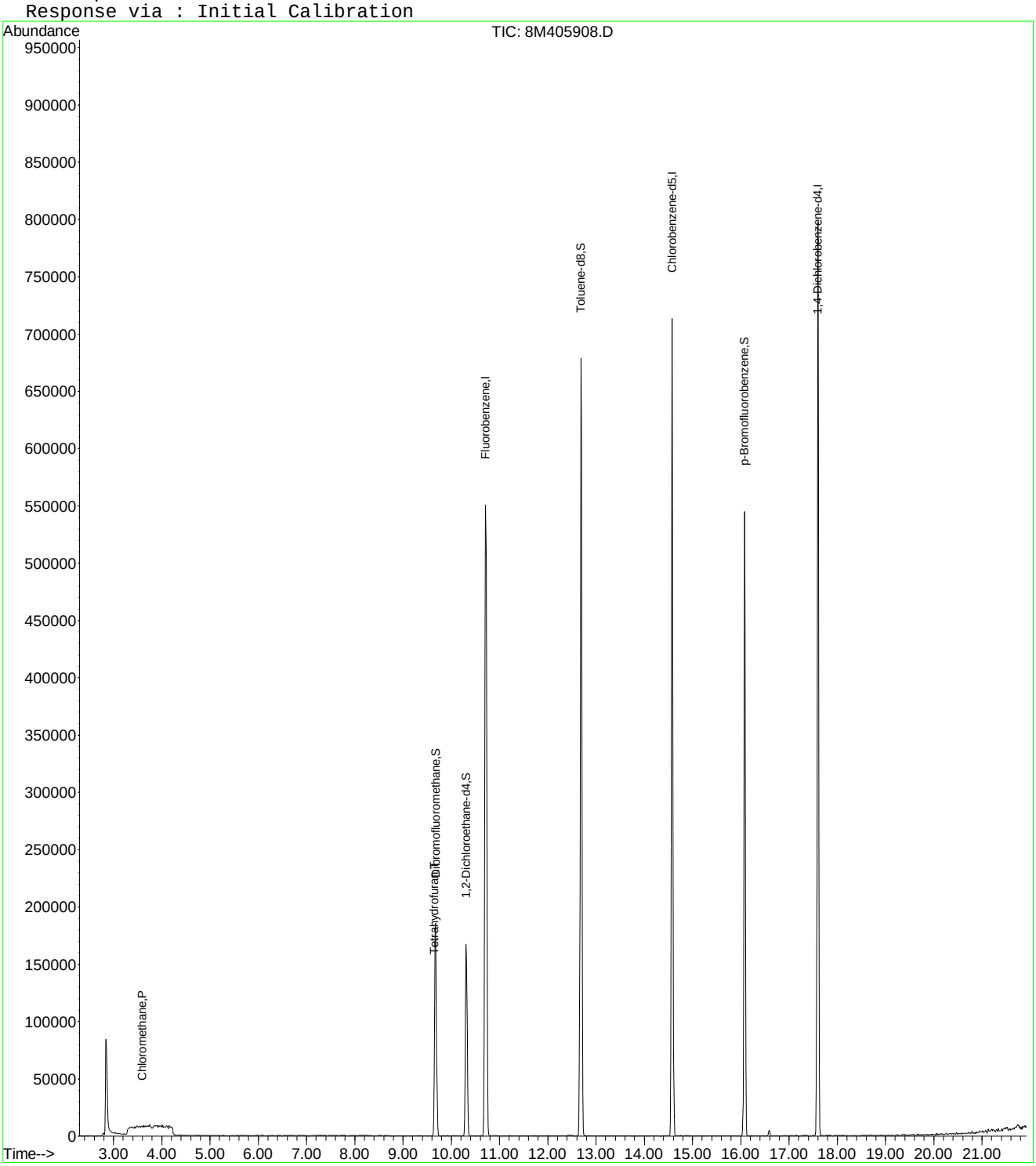
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	651553	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	465139	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	248543	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.68	111	153896	25.4594	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.84%			
43) 1,2-Dichloroethane-d4	10.31	65	146389	24.7593	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 99.04%			
58) Toluene-d8	12.69	98	593848	25.8095	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.24%			
80) p-Bromofluorobenzene	16.08	95	225180	25.3591	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.44%			
Target Compounds						Qvalue
3) Chloromethane	3.60	50	3026	0.2365	ug/L	79
36) Tetrahydrofuran	9.66	42	232	0.2569	ug/L #	40

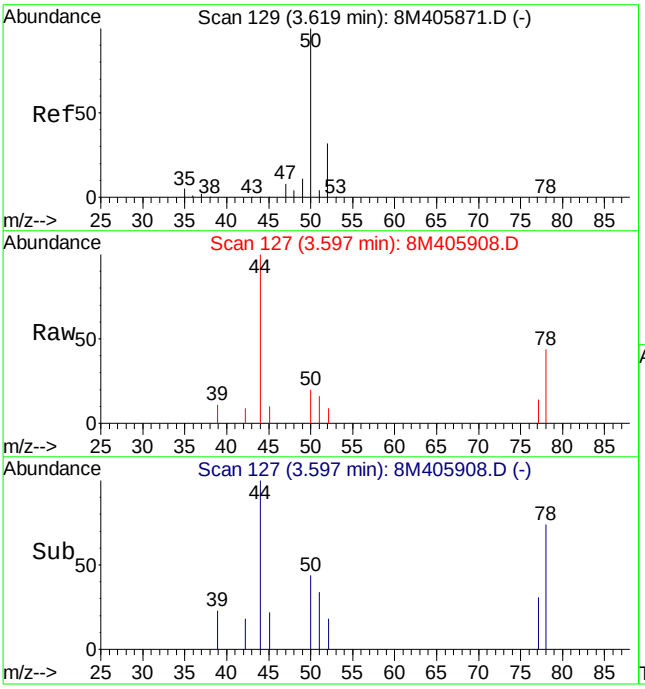
(#) = qualifier out of range (m) = manual integration
8M405908.D 8260WT.M Tue Jul 07 10:08:47 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070615\8M405908.D Vial: 4
Acq On : 6 Jul 2015 15:05 Operator: ADC/ JDS
Sample : WG530076-01 BLANK STD 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 7 10:08 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

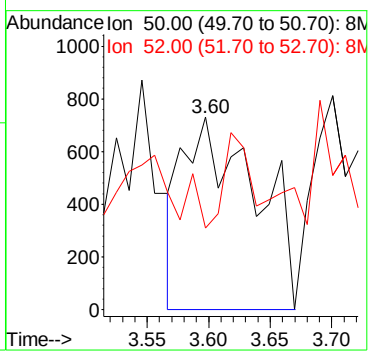


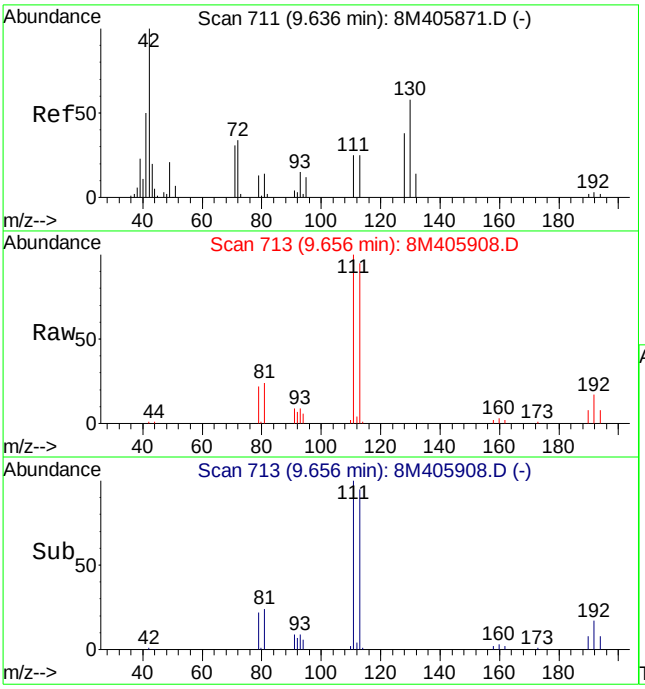


#3
Chloromethane
Concen: 0.24 ug/L
RT: 3.60 min Scan# 127
Delta R.T. -0.02 min
Lab File: 8M405908.D
Acq: 6 Jul 2015 15:05

Tgt Ion: 50 Resp: 3026

Ion	Ratio	Lower	Upper
50	100		
52	20.1	19.2	44.8

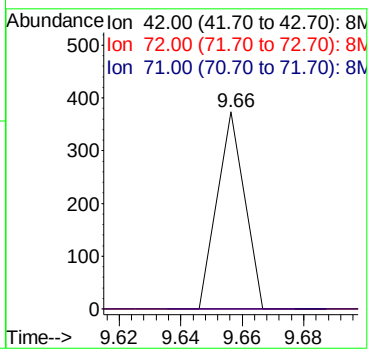




#36
Tetrahydrofuran
Concen: 0.26 ug/L
RT: 9.66 min Scan# 713
Delta R.T. 0.02 min
Lab File: 8M405908.D
Acq: 6 Jul 2015 15:05

Tgt Ion: 42 Resp: 232

Ion	Ratio	Lower	Upper
42	100		
72	0.0	22.4	52.4#
71	0.0	19.5	45.5#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405881.D Vial: 5
Acq On : 3 Jul 2015 16:08 Operator: ADC/ JDS
Sample : WG529903-02 20ug/L LCS STD 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:25:54 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.71	96	732527	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	508540	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	276814	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.67	111	165870	24.4070 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 97.64%		
43) 1,2-Dichloroethane-d4	10.31	65	163938	24.6625 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 98.64%		
58) Toluene-d8	12.68	98	648399	25.7753 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.12%		
80) p-Bromofluorobenzene	16.08	95	250311	25.3103 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.24%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.17	85	202695	25.2214 ug/L	98
3) Chloromethane	3.62	50	306957	21.3366 ug/L	99
4) Vinyl Chloride	3.84	62	242376	21.8843 ug/L	100
5) 1,3-Butadiene	3.89	54	27949	3.1748 ug/L	96
6) Bromomethane	4.74	94	105470	21.3459 ug/L	96
7) Chloroethane	4.90	64	111380	23.3727 ug/L	98
8) Trichlorofluoromethane	5.37	101	227260	20.3889 ug/L	99
9) Diethyl ether	5.91	59	425580	97.5891 ug/L	100
10) Isoprene	5.94	67	200160	23.9509 ug/L	99
11) Acrolein	6.15	56	35392	116.4157 ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	133094	21.7514 ug/L	97
13) Acetone	6.25	43	18085	20.0957 ug/L	93
14) 1,1-Dichloroethene	6.47	61	209544	19.5862 ug/L	98
15) Tert-Butyl Alcohol	6.58	59	45419	205.7130 ug/L	93
16) Dimethyl Sulfide	6.74	62	161952	27.7795 ug/L	96
17) Iodomethane	6.99	142	118350	22.9282 ug/L	98
18) Methyl acetate	7.01	43	58999	16.5098 ug/L	97
19) Methylene Chloride	7.26	84	136546	20.2379 ug/L	97
20) Carbon Disulfide	7.30	76	386067	20.0701 ug/L	99
21) Acrylonitrile	7.44	53	27774	21.0039 ug/L	98
22) Methyl Tert Butyl Ether	7.47	73	255840	20.6983 ug/L	99
23) trans-1,2-Dichloroethene	7.71	61	218639	21.1371 ug/L	98
24) n-Hexane	7.78	57	208436	20.3692 ug/L	98
25) Diisopropyl ether	8.14	45	2561747	101.9000 ug/L	100
26) Vinyl Acetate	8.30	43	156448	28.3001 ug/L	99
27) 1,1-Dichloroethane	8.33	63	268356	19.9888 ug/L	100
28) Ethyl-Tert-Butyl ether	8.70	59	1881600	96.4714 ug/L	99
29) 2-Butanone	8.89	43	30249	19.9003 ug/L	98
30) Propionitrile	8.99	54	47710	105.8948 ug/L	100
31) 2,2-Dichloropropane	9.11	77	232708	21.7095 ug/L	97
32) cis-1,2-Dichloroethene	9.18	96	147872	20.6950 ug/L	98
33) Chloroform	9.39	83	250691	20.5272 ug/L	100
34) 1-Bromopropane	9.52	122	30770	26.1808 ug/L	98
35) Bromochloromethane	9.61	130	72775	20.6205 ug/L	99
36) Tetrahydrofuran	9.63	42	97489	96.0111 ug/L	96
38) 1,1,1-Trichloroethane	9.91	97	244456	21.0886 ug/L	99
39) Cyclohexane	9.94	56	262838	19.3623 ug/L	99
40) 1,1-Dichloropropene	10.11	75	199416	21.4645 ug/L	99
41) Tert-Amyl-Methyl ether	10.21	73	1443516	99.5420 ug/L	100
42) Carbon Tetrachloride	10.26	117	217968	20.7607 ug/L	99

(#) = qualifier out of range (m) = manual integration
8M405881.D 8260WT.M Mon Jul 06 10:25:54 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405881.D Vial: 5
Acq On : 3 Jul 2015 16:08 Operator: ADC/ JDS
Sample : WG529903-02 20ug/L LCS STD 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 06 10:25:54 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

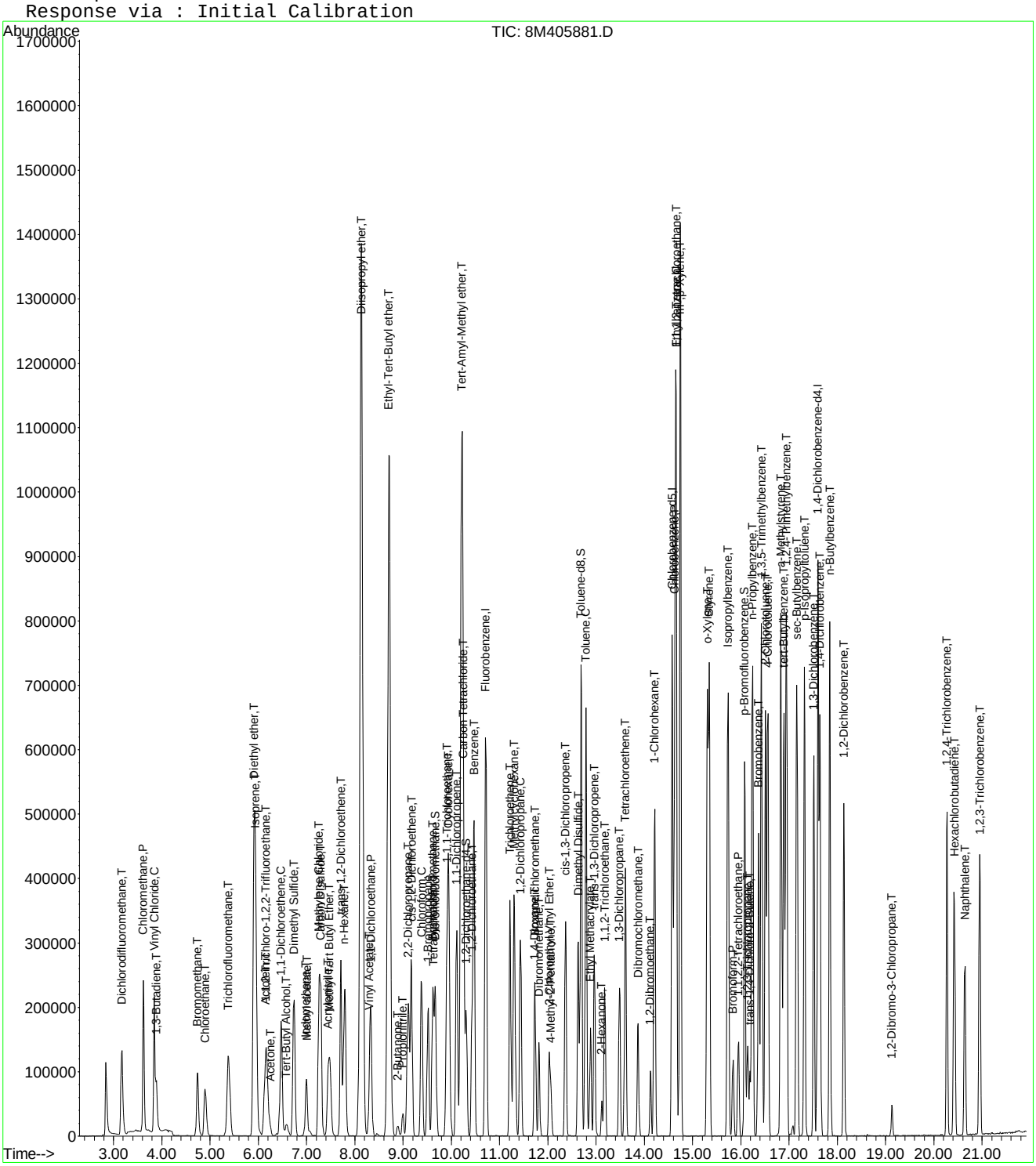
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	170134	20.4885	ug/L		98
46)	Benzene	10.47	78	568746	21.3523	ug/L		99
47)	Trichloroethene	11.22	130	143918	21.7179	ug/L		99
48)	Methylcyclohexane	11.30	83	225296	20.8563	ug/L		100
49)	1,2-Dichloropropane	11.43	63	155573	21.0546	ug/L		100
50)	Bromodichloromethane	11.73	83	187451	20.5461	ug/L		99
51)	1,4-Dioxane	11.72	88	4273	177.6312	ug/L		83
52)	Dibromomethane	11.82	93	67207	19.6786	ug/L		99
53)	2-Chloroethyl Vinyl Ether	12.03	63	62312	19.2960	ug/L		99
54)	4-Methyl-2-Pentanone	12.06	58	27327	19.8878	ug/L		98
55)	cis-1,3-Dichloropropene	12.36	75	224134	22.1515	ug/L		100
56)	Dimethyl Disulfide	12.63	79	113008	20.0608	ug/L		88
59)	Toluene	12.79	91	613986	21.9249	ug/L		99
60)	Ethyl Methacrylate	12.88	69	115797	22.4192	ug/L		98
62)	trans-1,3-Dichloropropene	12.96	75	172496	19.9685	ug/L		100
63)	1,1,2-Trichloroethane	13.18	97	88384	20.4201	ug/L		97
64)	2-Hexanone	13.12	58	24865	19.8838	ug/L	#	99
65)	1,3-Dichloropropane	13.48	76	160173	21.1209	ug/L		98
66)	Tetrachloroethene	13.61	164	119839	20.9464	ug/L		99
67)	Dibromochloromethane	13.87	129	119770	19.0817	ug/L		99
68)	1,2-Dibromoethane	14.12	107	84114	20.1925	ug/L		99
69)	1-Chlorohexane	14.22	91	212359	21.7253	ug/L		99
70)	Chlorobenzene	14.63	112	365967	19.4901	ug/L		98
71)	1,1,1,2-Tetrachloroethane	14.66	131	136137	19.9369	ug/L		98
72)	Ethylbenzene	14.66	106	218647	20.6981	ug/L		99
73)	m-,p-Xylene	14.74	106	519915	41.7905	ug/L		99
74)	o-Xylene	15.31	106	239405	19.8386	ug/L		99
75)	Styrene	15.34	104	425539	21.9397	ug/L		98
76)	Bromoform	15.84	173	71249	18.9607	ug/L		98
77)	Isopropylbenzene	15.73	105	624547	20.6309	ug/L		100
79)	1,1,2,2-Tetrachloroethane	15.95	83	97699	20.9148	ug/L		98
81)	1,2,3-Trichloropropane	16.14	110	27979	20.8600	ug/L	#	43
82)	trans-1,4-Dichloro-2-Buten	16.19	53	31518	18.9385	ug/L	#	73
83)	n-Propylbenzene	16.24	91	798899	21.2344	ug/L		100
84)	Bromobenzene	16.37	156	158806	20.6870	ug/L		97
85)	1,3,5-Trimethylbenzene	16.43	105	591040	22.5251	ug/L		99
86)	2-Chlorotoluene	16.51	91	485840	20.4495	ug/L		100
87)	4-Chlorotoluene	16.56	91	492561	20.4683	ug/L		99
88)	a-Methylstyrene	16.83	118	313706	22.5355	ug/L		99
89)	tert-Butylbenzene	16.89	134	108852	20.3561	ug/L		94
90)	1,2,4-Trimethylbenzene	16.94	105	597939	22.3558	ug/L		97
91)	sec-Butylbenzene	17.16	105	679684	21.7378	ug/L		99
92)	p-Isopropyltoluene	17.32	119	566108	20.8343	ug/L		100
93)	1,3-Dichlorobenzene	17.51	146	298816	19.5552	ug/L		99
94)	1,4-Dichlorobenzene	17.64	146	322640	20.6946	ug/L		98
95)	n-Butylbenzene	17.84	91	597870	22.4381	ug/L		100
96)	1,2-Dichlorobenzene	18.13	146	261895	19.1942	ug/L		100
97)	1,2-Dibromo-3-Chloropropan	19.13	75	16567	20.0569	ug/L		98
98)	1,2,4-Trichlorobenzene	20.27	180	197567	19.3316	ug/L		97
99)	Hexachlorobutadiene	20.43	225	105266	20.5436	ug/L		98
100)	Naphthalene	20.65	128	264982	19.6680	ug/L		98
101)	1,2,3-Trichlorobenzene	20.96	180	170838	19.2236	ug/L		100

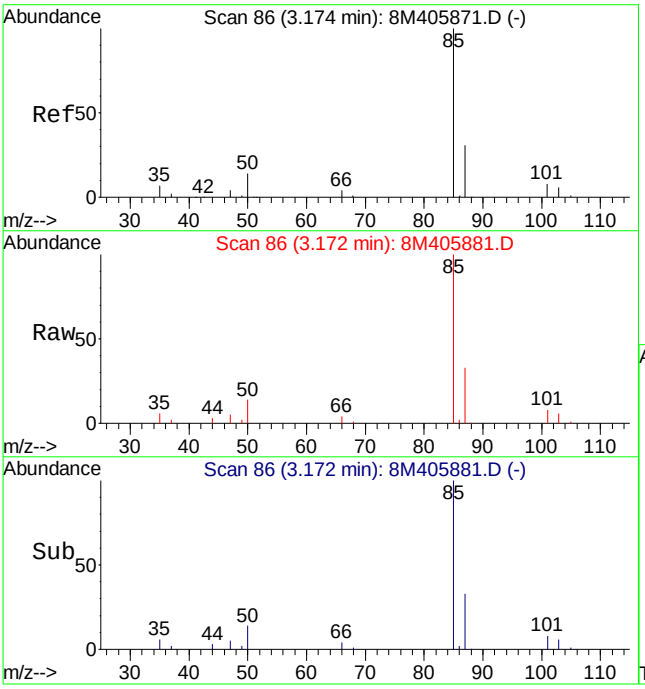
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070315\8M405881.D Vial: 5
Acq On : 3 Jul 2015 16:08 Operator: ADC/ JDS
Sample : WG529903-02 20ug/L LCS STD 8260 Inst : HPMS8
Misc : 1,1 STD71242 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 10:25 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

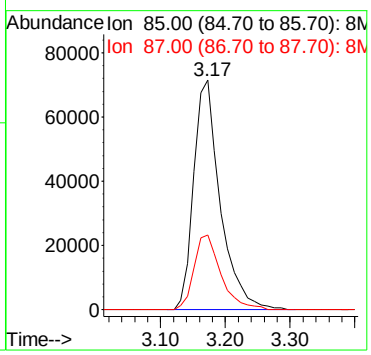


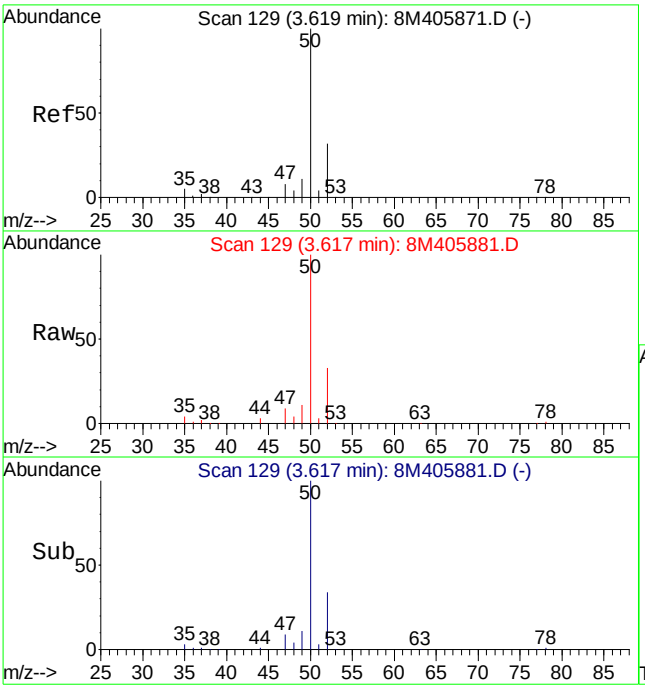


#2
Dichlorodifluoromethane
Concen: 25.22 ug/L
RT: 3.17 min Scan# 86
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 85 Resp: 202695

Ion	Ratio	Lower	Upper
85	100		
87	33.0	19.2	44.8

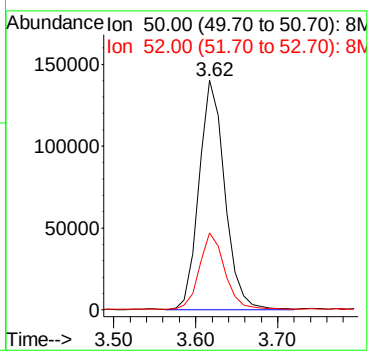


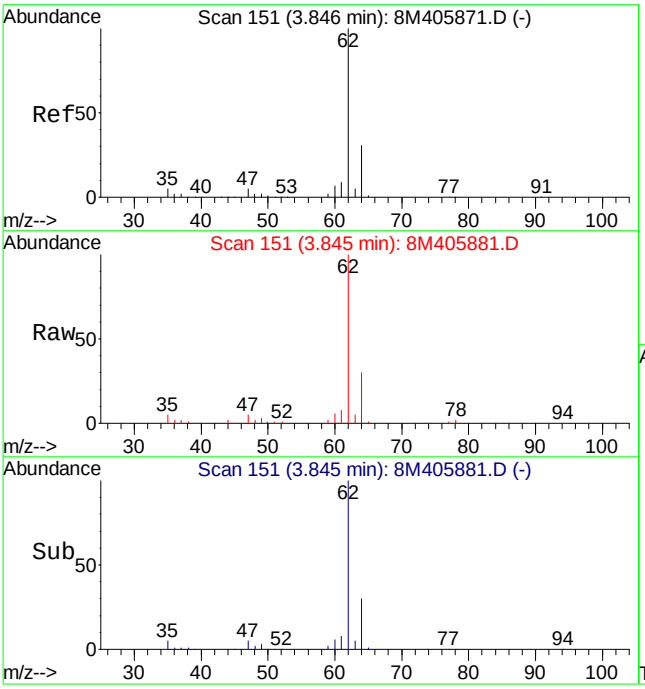


#3
Chloromethane
Concen: 21.34 ug/L
RT: 3.62 min Scan# 129
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 50 Resp: 306957

Ion	Ratio	Lower	Upper
50	100		
52	32.6	19.2	44.8

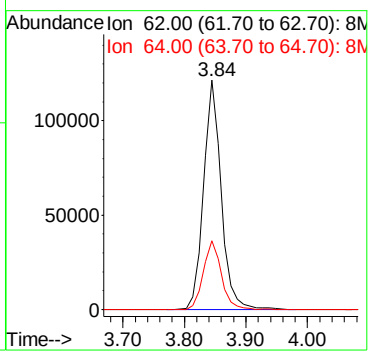


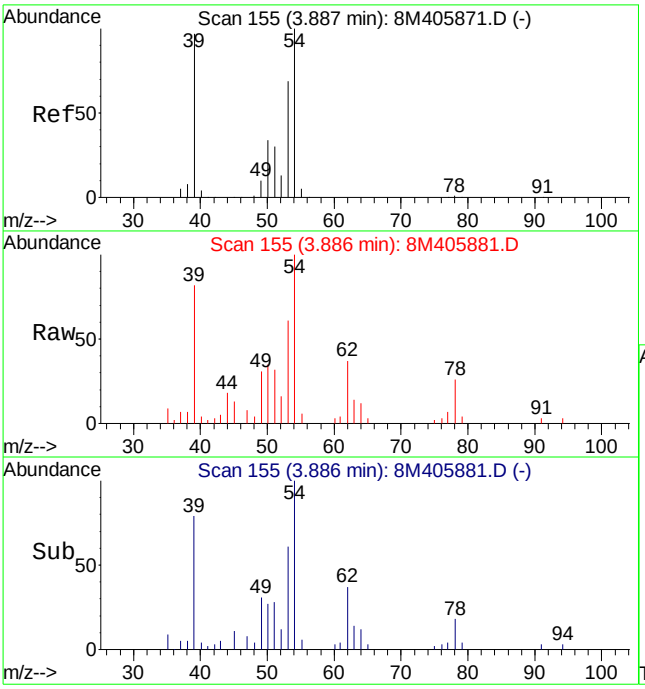


#4
Vinyl Chloride
Concen: 21.88 ug/L
RT: 3.84 min Scan# 151
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 62 Resp: 242376

Ion	Ratio	Lower	Upper
62	100		
64	30.5	18.2	42.6

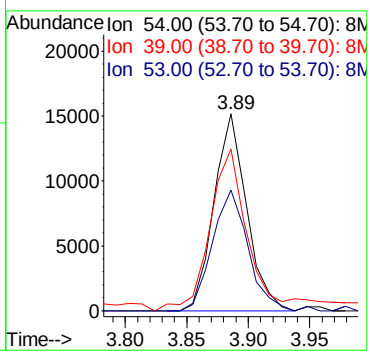


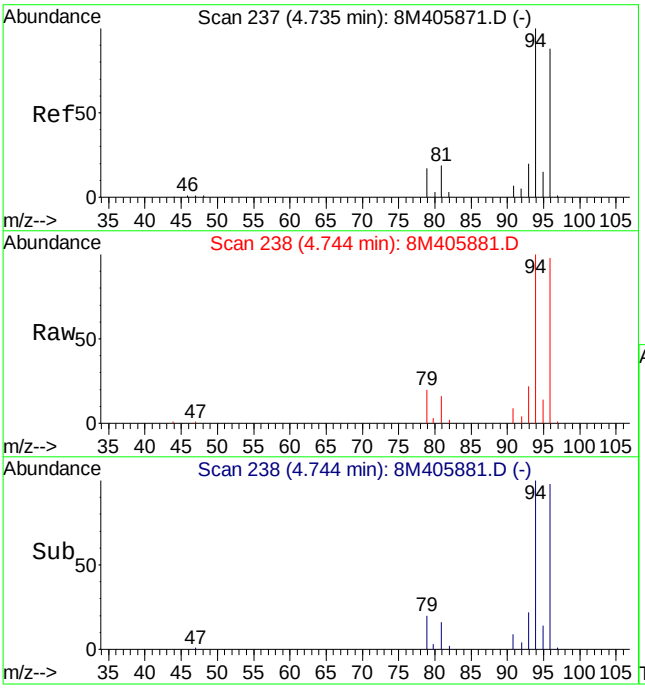


#5
1,3-Butadiene
Concen: 3.17 ug/L
RT: 3.89 min Scan# 155
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 54 Resp: 27949

Ion	Ratio	Lower	Upper
54	100		
39	105.6	60.8	142.0
53	67.3	42.4	99.0

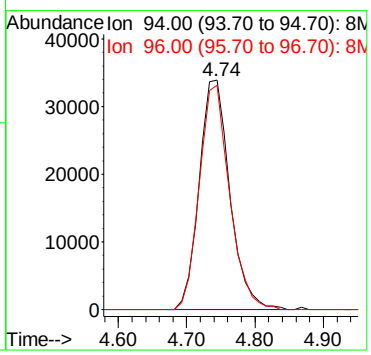


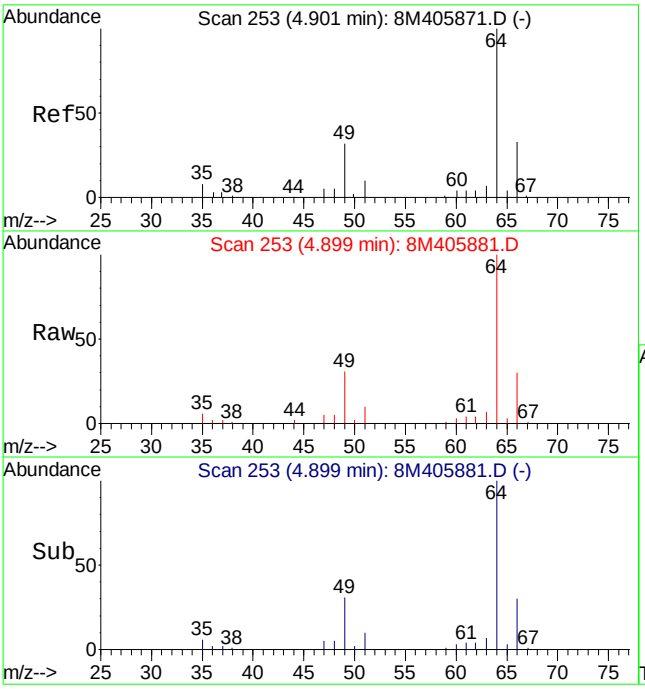


#6
Bromomethane
Concen: 21.35 ug/L
RT: 4.74 min Scan# 238
Delta R.T. 0.01 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 94 Resp: 105470

Ion	Ratio	Lower	Upper
94	100		
96	96.5	55.6	129.8

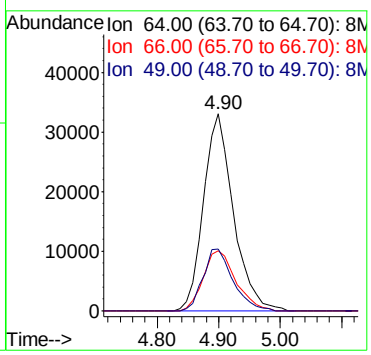


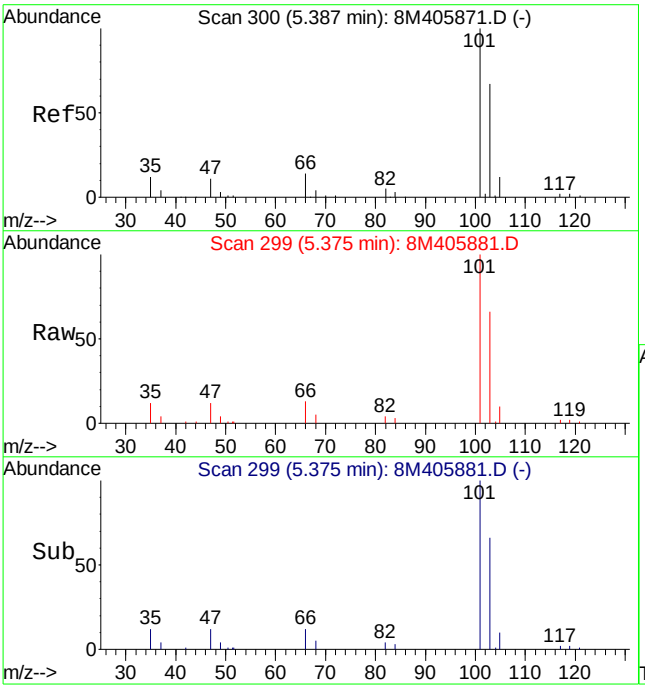


#7
Chloroethane
Concen: 23.37 ug/L
RT: 4.90 min Scan# 253
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 64 Resp: 111380

Ion	Ratio	Lower	Upper
64	100		
66	33.1	19.0	44.4
49	31.3	18.5	43.1

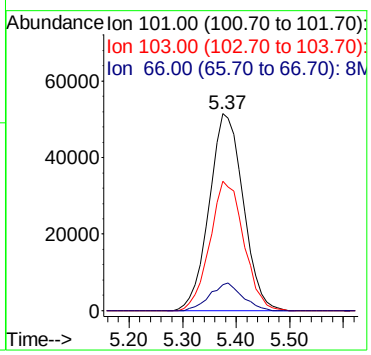


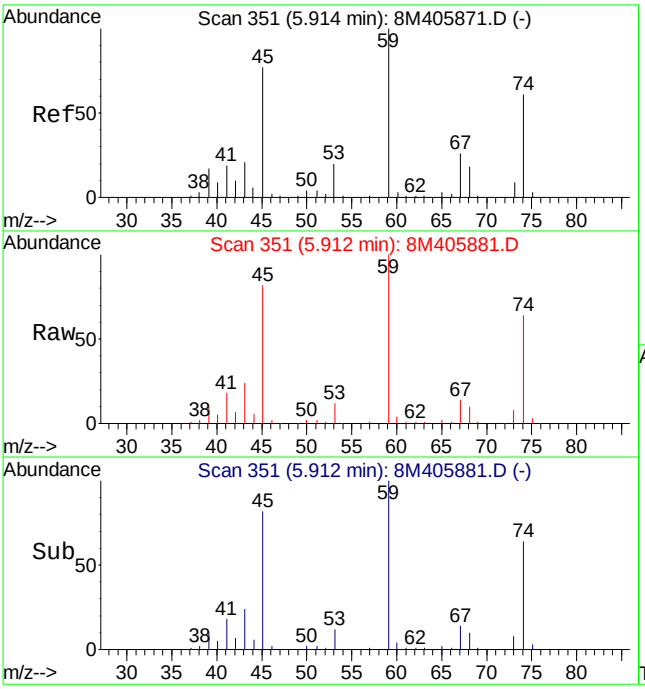


#8
Trichlorofluoromethane
Concen: 20.39 ug/L
RT: 5.37 min Scan# 299
Delta R.T. -0.01 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:101 Resp: 227260

Ion	Ratio	Lower	Upper
101	100		
103	65.2	39.7	92.7
66	13.3	8.5	19.9

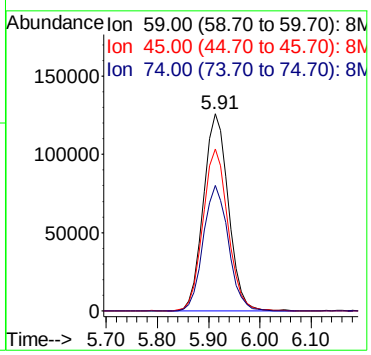


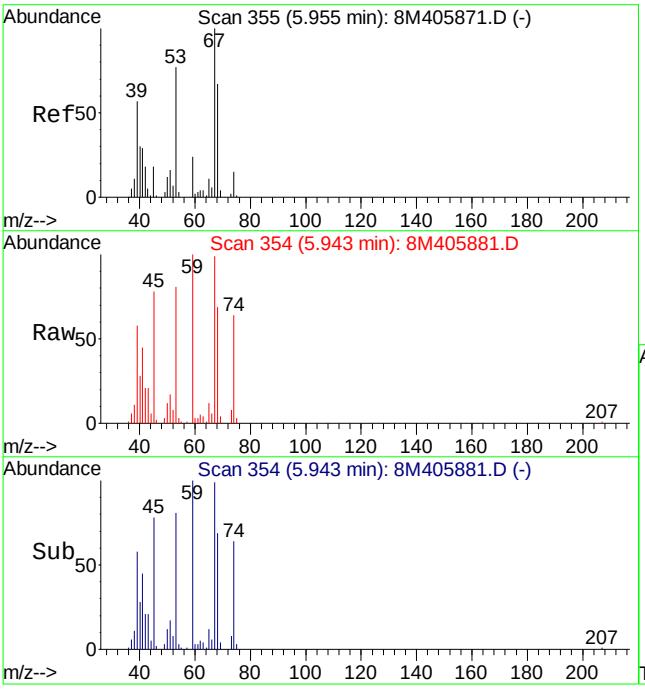


#9
Diethyl ether
Concen: 97.59 ug/L
RT: 5.91 min Scan# 351
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 59 Resp: 425580

Ion	Ratio	Lower	Upper
59	100		
45	82.2	49.3	115.1
74	63.7	38.6	90.2

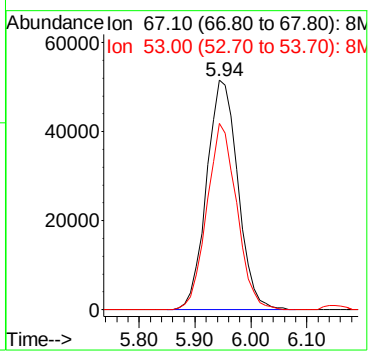


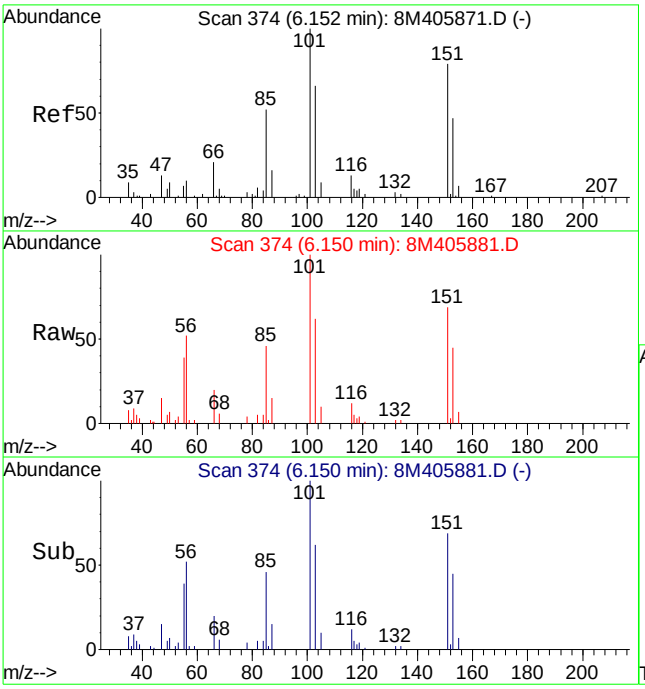


#10
Isoprene
Concen: 23.95 ug/L
RT: 5.94 min Scan# 354
Delta R.T. -0.01 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 67 Resp: 200160

Ion	Ratio	Lower	Upper
67	100		
53	77.6	46.9	109.5

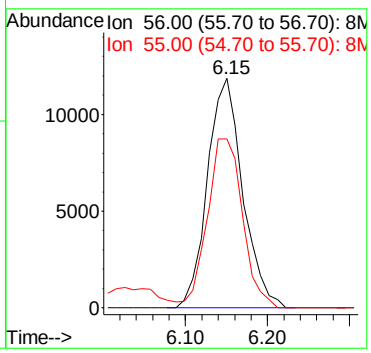


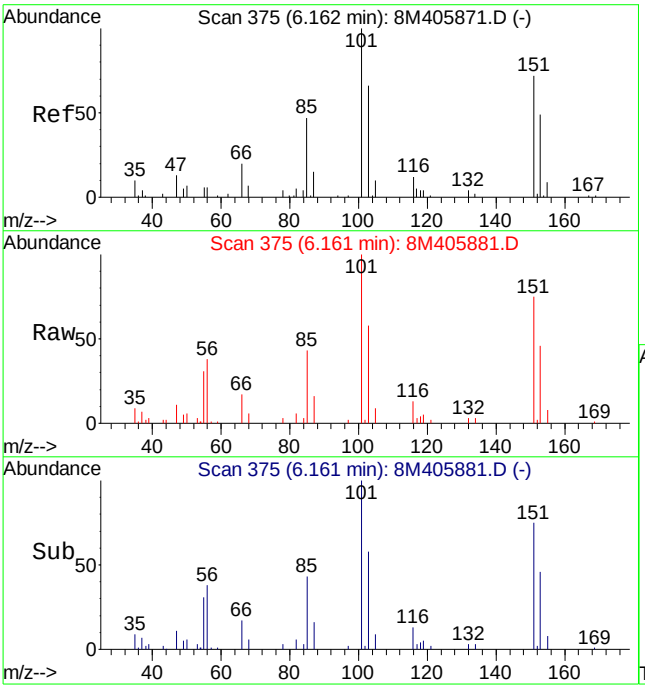


#11
Acrolein
Concen: 116.42 ug/L
RT: 6.15 min Scan# 374
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 56 Resp: 35392

Ion	Ratio	Lower	Upper
56	100		
55	73.6	45.2	105.6

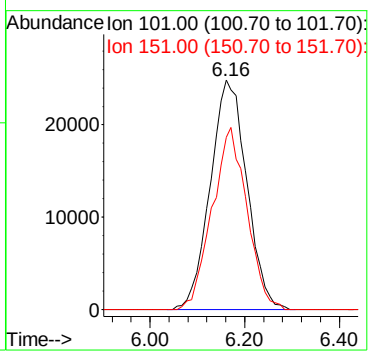


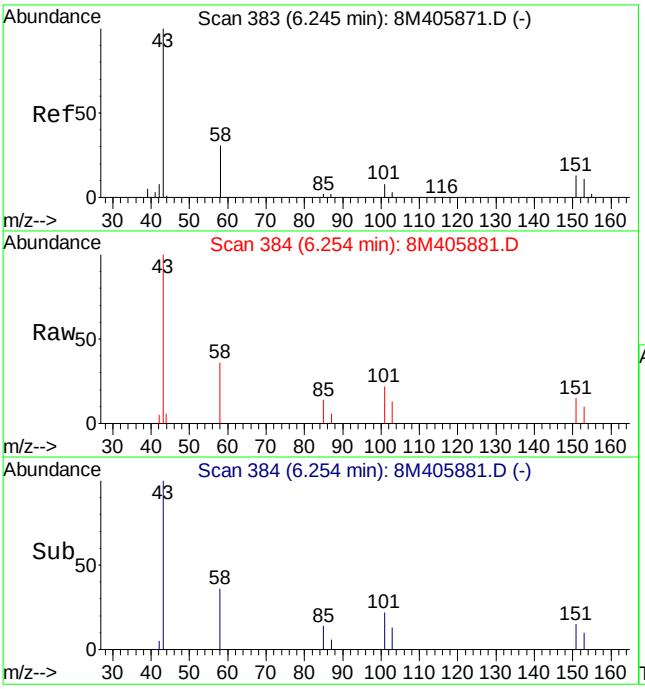


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 21.75 ug/L
RT: 6.16 min Scan# 375
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:101 Resp: 133094

Ion	Ratio	Lower	Upper
101	100		
151	75.6	38.1	118.1

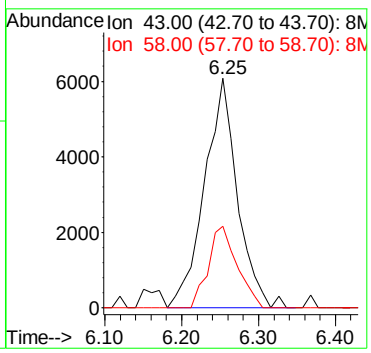


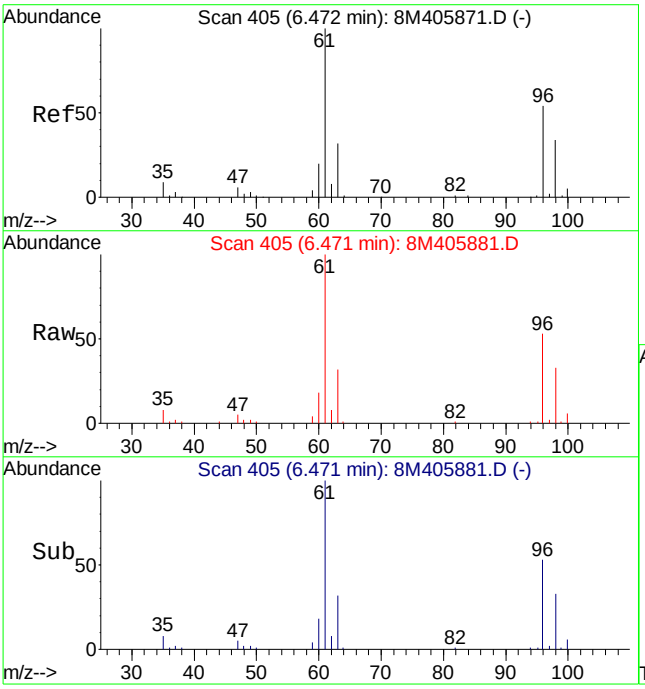


#13
Acetone
Concen: 20.10 ug/L
RT: 6.25 min Scan# 384
Delta R.T. 0.01 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 43 Resp: 18085

Ion	Ratio	Lower	Upper
43	100		
58	31.2	16.4	38.2

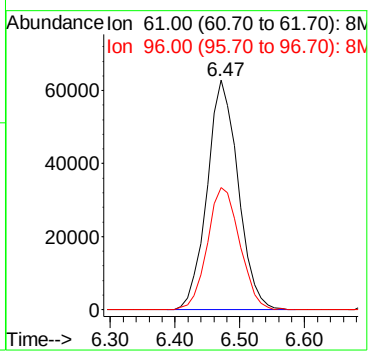


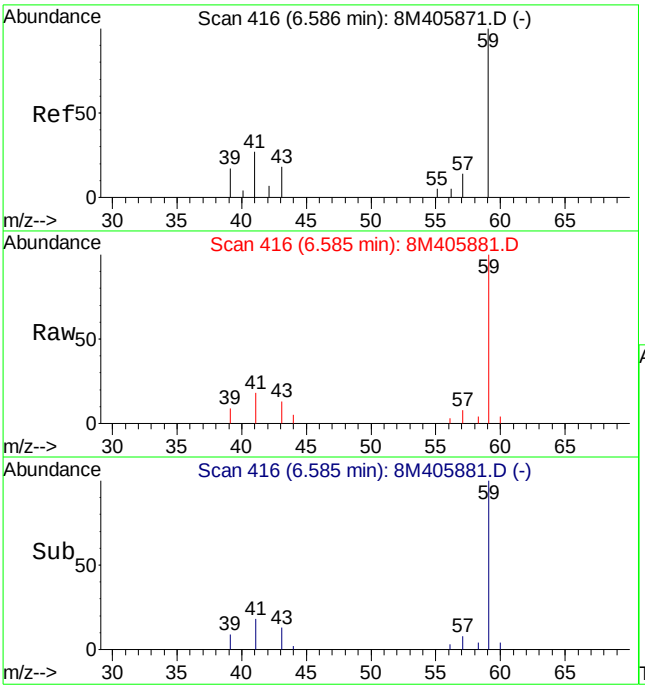


#14
1,1-Dichloroethene
Concen: 19.59 ug/L
RT: 6.47 min Scan# 405
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 61 Resp: 209544

Ion	Ratio	Lower	Upper
61	100		
96	55.4	32.3	75.3

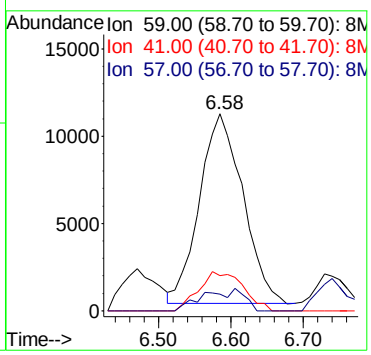


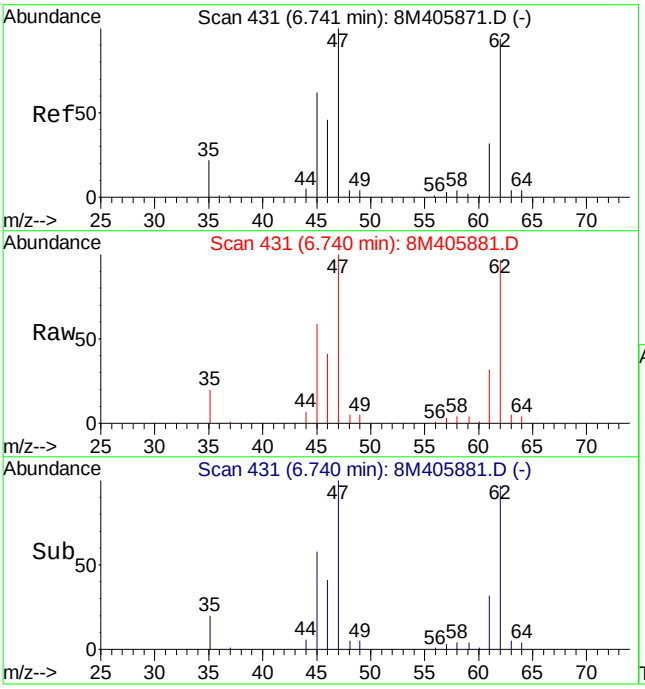


#15
Tert-Butyl Alcohol
Concen: 205.71 ug/L
RT: 6.58 min Scan# 416
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 59 Resp: 45419

Ion	Ratio	Lower	Upper
59	100		
41	20.9	14.2	33.0
57	7.1	6.5	15.3

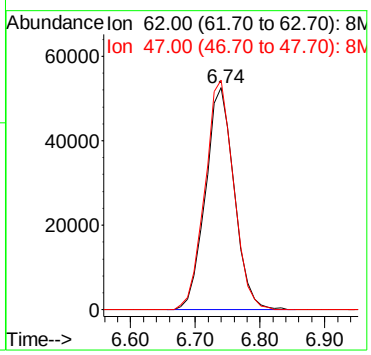


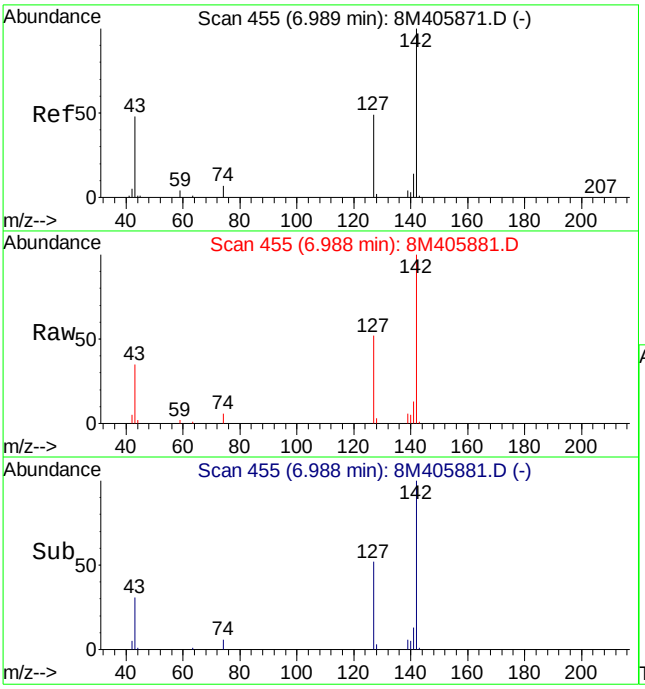


#16
Dimethyl Sulfide
Concen: 27.78 ug/L
RT: 6.74 min Scan# 431
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 62 Resp: 161952

Ion	Ratio	Lower	Upper
62	100		
47	103.2	64.3	149.9

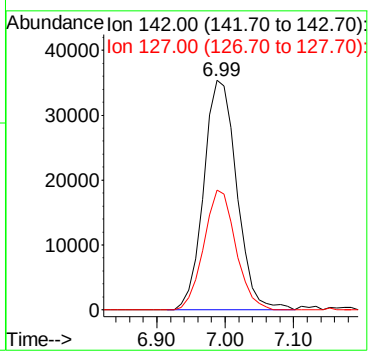


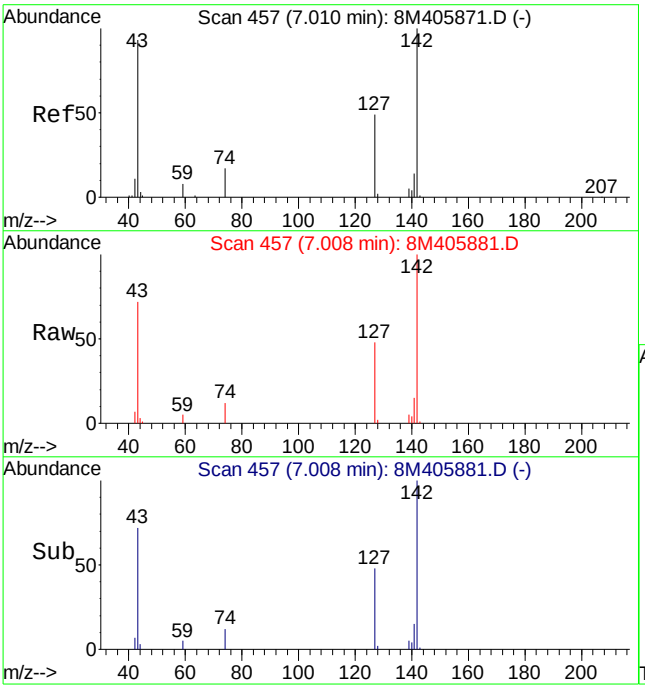


#17
Iodomethane
Concen: 22.93 ug/L
RT: 6.99 min Scan# 455
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:142 Resp: 118350

Ion	Ratio	Lower	Upper
142	100		
127	50.4	29.6	69.0

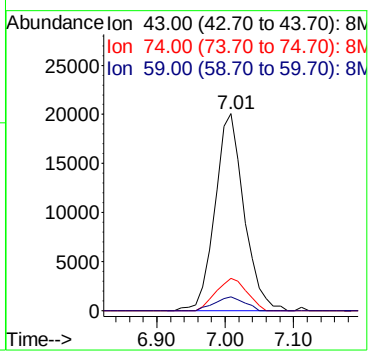


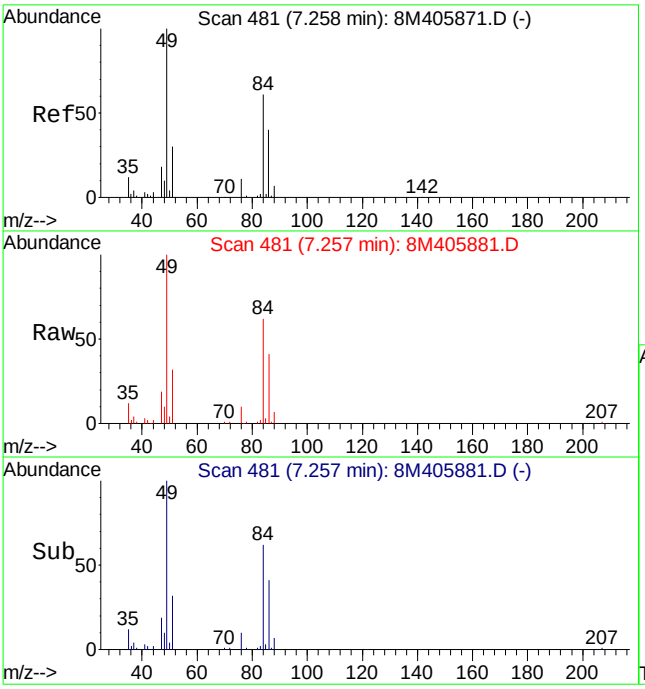


#18
Methyl acetate
Concen: 16.51 ug/L
RT: 7.01 min Scan# 457
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 43 Resp: 58999

Ion	Ratio	Lower	Upper
43	100		
74	17.3	11.2	26.2
59	7.0	4.7	11.1

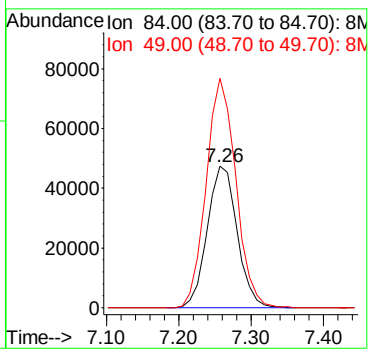


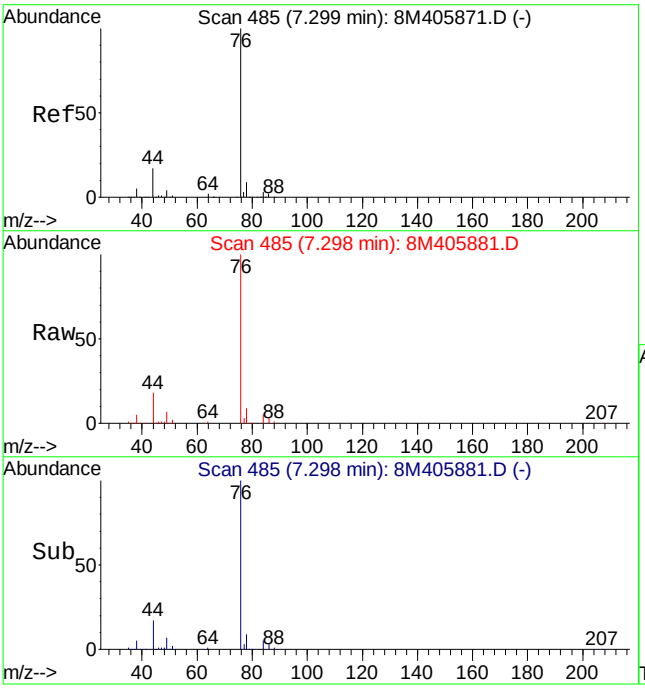


#19
Methylene Chloride
Concen: 20.24 ug/L
RT: 7.26 min Scan# 481
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 84 Resp: 136546

Ion	Ratio	Lower	Upper
84	100		
49	161.0	98.6	230.2

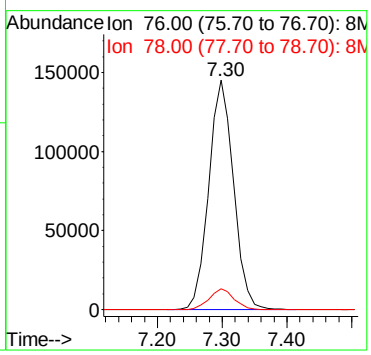


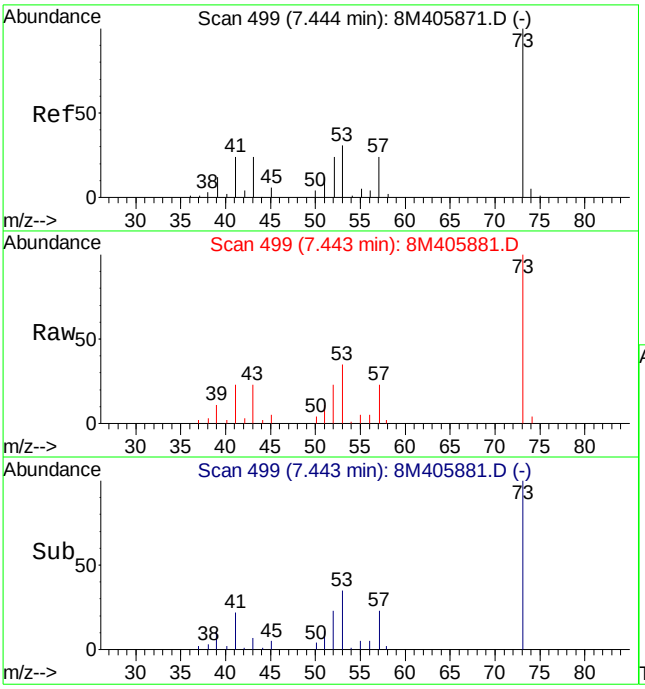


#20
Carbon Disulfide
Concen: 20.07 ug/L
RT: 7.30 min Scan# 485
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 76 Resp: 386067

Ion	Ratio	Lower	Upper
76	100		
78	9.1	5.7	13.3

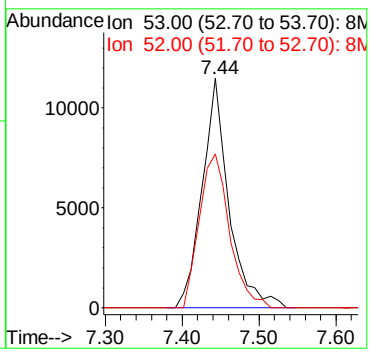


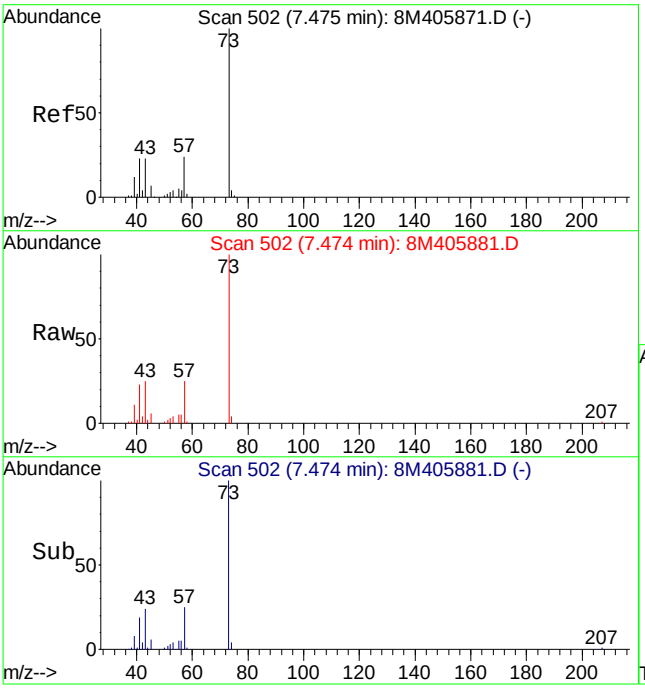


#21
Acrylonitrile
Concen: 21.00 ug/L
RT: 7.44 min Scan# 499
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 53 Resp: 27774

Ion	Ratio	Lower	Upper
53	100		
52	75.6	46.6	108.6

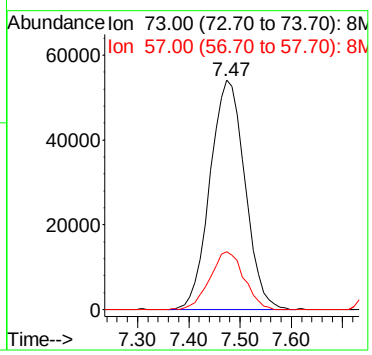


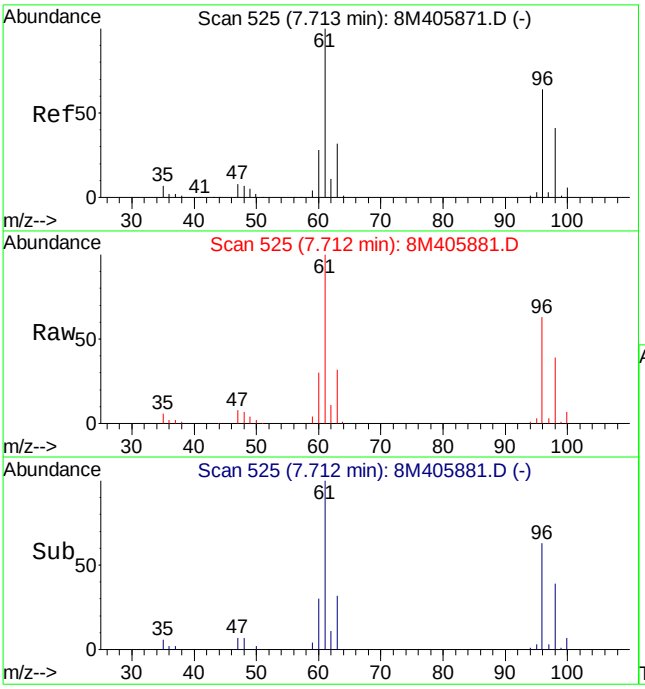


#22
Methyl Tert Butyl Ether
Concen: 20.70 ug/L
RT: 7.47 min Scan# 502
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 73 Resp: 255840

Ion	Ratio	Lower	Upper
73	100		
57	24.8	15.3	35.7

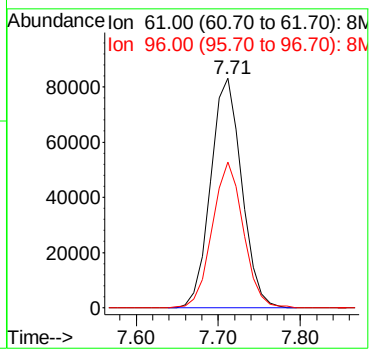


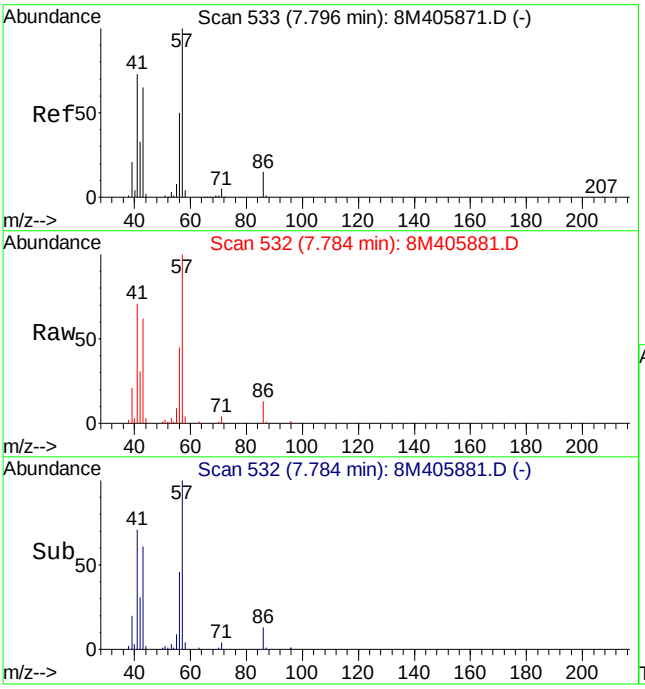


#23
trans-1,2-Dichloroethene
Concen: 21.14 ug/L
RT: 7.71 min Scan# 525
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 61 Resp: 218639

Ion	Ratio	Lower	Upper
61	100		
96	63.6	37.4	87.4

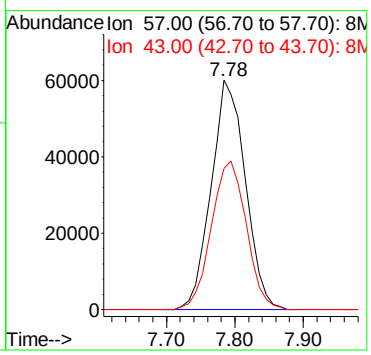


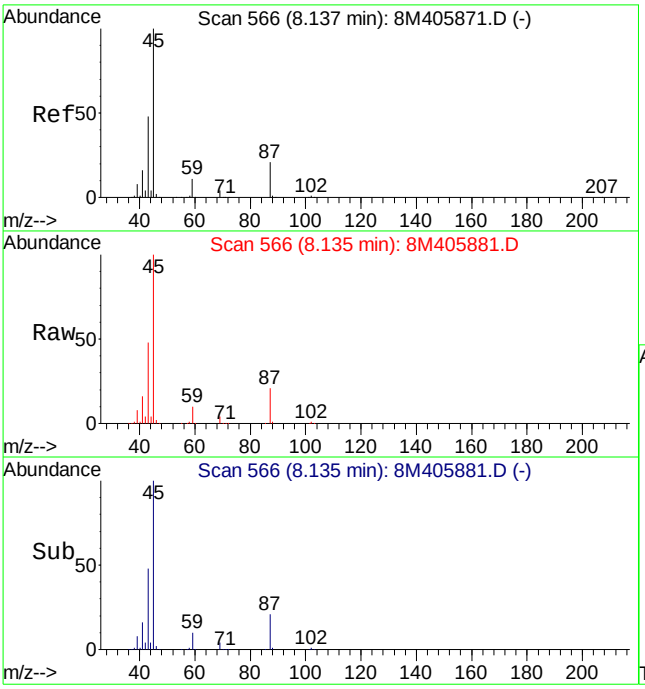


#24
n-Hexane
Concen: 20.37 ug/L
RT: 7.78 min Scan# 532
Delta R.T. -0.01 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 57 Resp: 208436

Ion	Ratio	Lower	Upper
57	100		
43	66.2	40.6	94.6

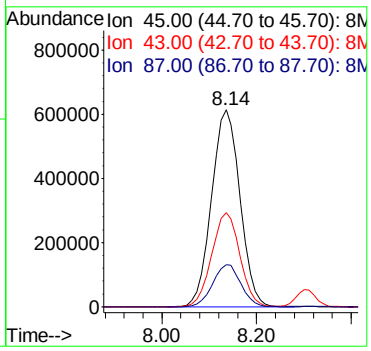


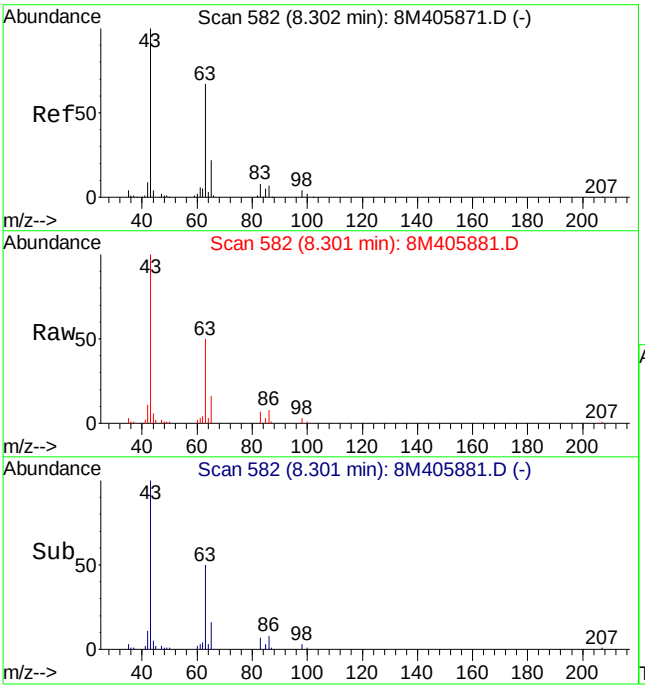


#25
Diisopropyl ether
Concen: 101.90 ug/L
RT: 8.14 min Scan# 566
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 45 Resp: 2561747

Ion	Ratio	Lower	Upper
45	100		
43	47.3	28.3	66.1
87	21.1	12.6	29.4

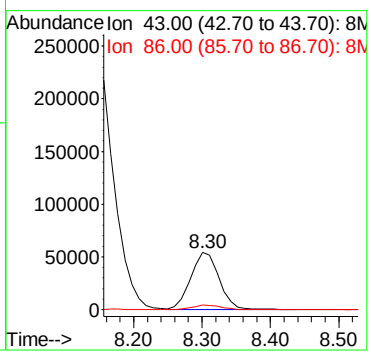


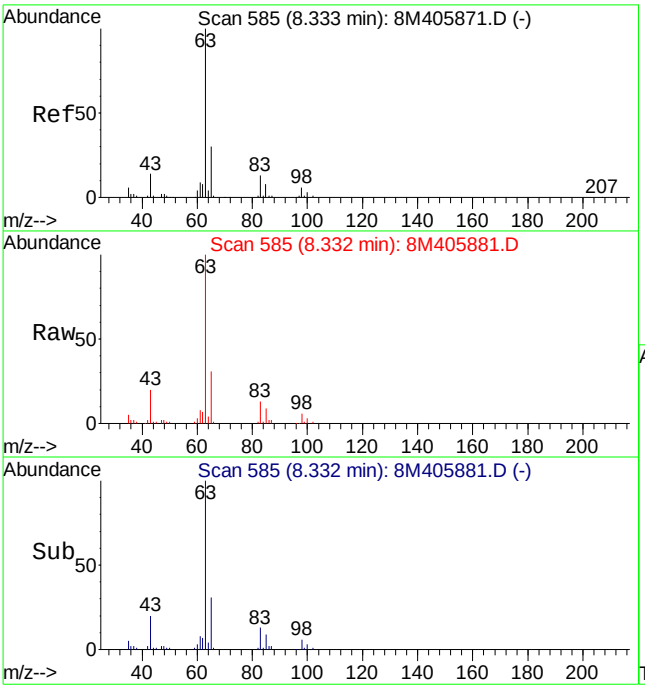


#26
Vinyl Acetate
Concen: 28.30 ug/L
RT: 8.30 min Scan# 582
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 43 Resp: 156448

Ion	Ratio	Lower	Upper
43	100		
86	7.8	4.9	11.3

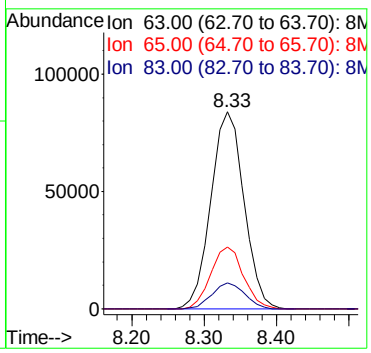


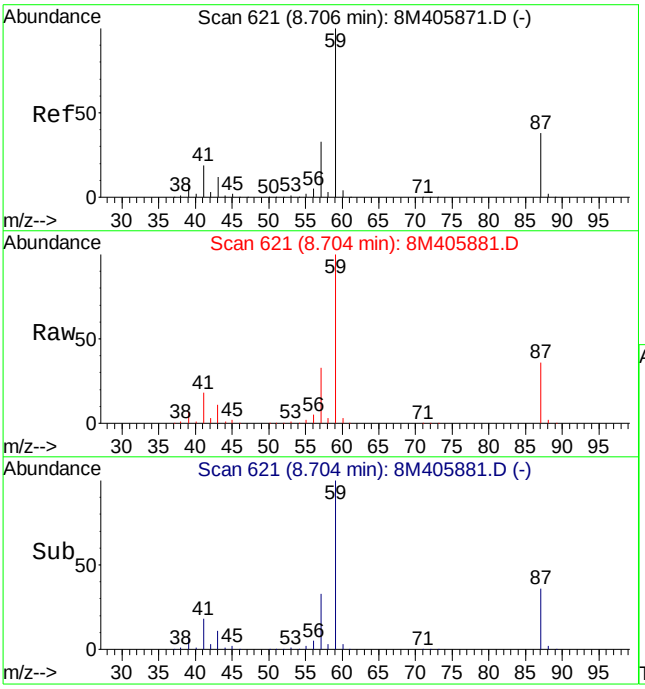


#27
1,1-Dichloroethane
Concen: 19.99 ug/L
RT: 8.33 min Scan# 585
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 63 Resp: 268356

Ion	Ratio	Lower	Upper
63	100		
65	30.9	18.4	43.0
83	12.8	7.7	18.1

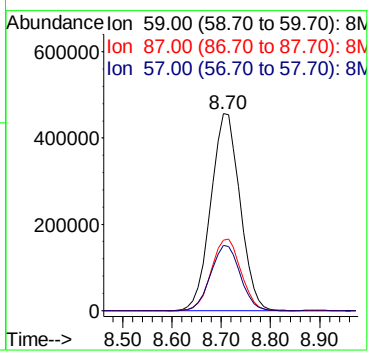


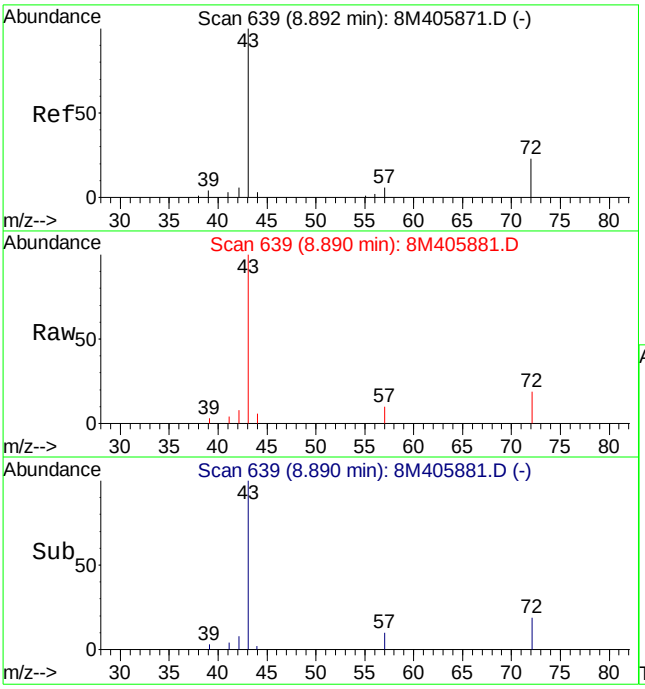


#28
Ethyl-Tert-Butyl ether
Concen: 96.47 ug/L
RT: 8.70 min Scan# 621
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 59 Resp: 1881600

Ion	Ratio	Lower	Upper
59	100		
87	36.7	22.5	52.5
57	33.4	20.0	46.6

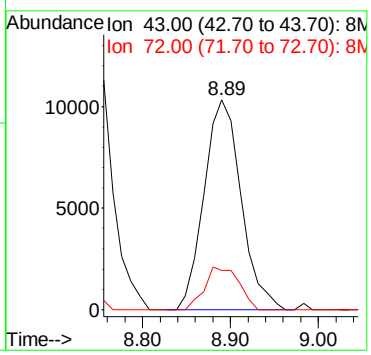


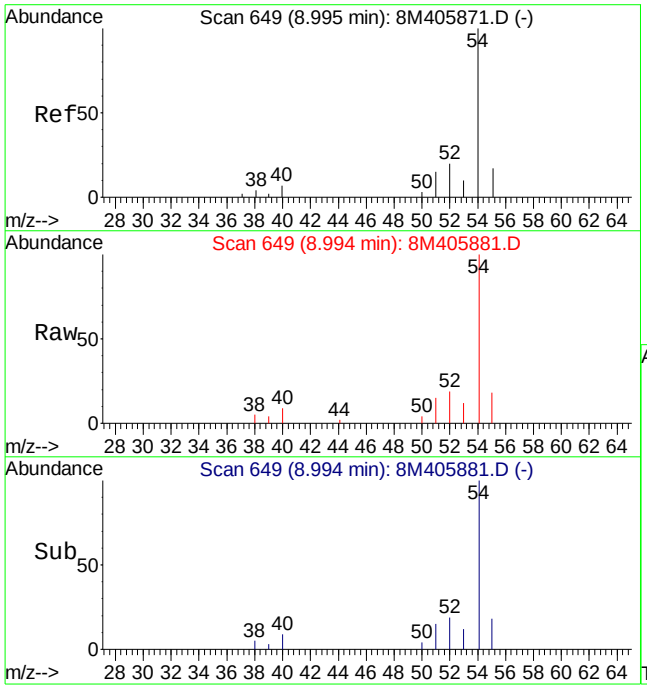


#29
2-Butanone
Concen: 19.90 ug/L
RT: 8.89 min Scan# 639
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 43 Resp: 30249

Ion	Ratio	Lower	Upper
43	100		
72	18.8	11.9	27.9

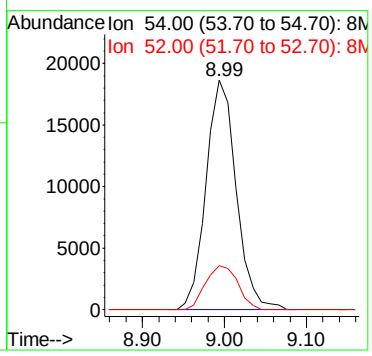


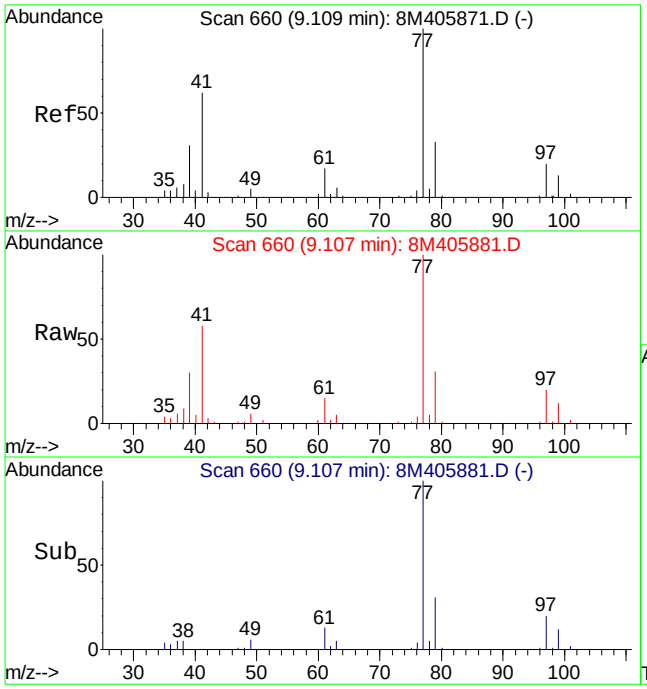


#30
Propionitrile
Concen: 105.89 ug/L
RT: 8.99 min Scan# 649
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 54 Resp: 47710

Ion	Ratio	Lower	Upper
54	100		
52	20.4	12.4	28.8

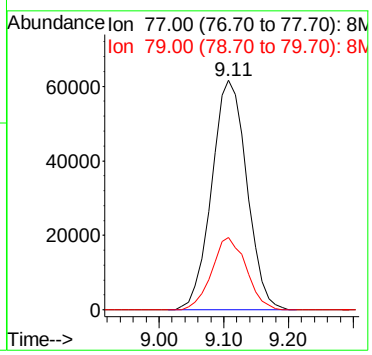


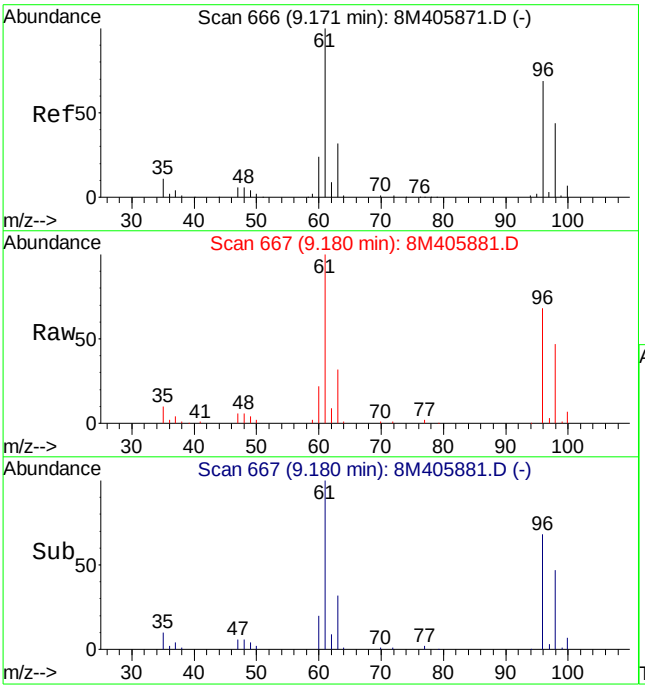


#31
2,2-Dichloropropane
Concen: 21.71 ug/L
RT: 9.11 min Scan# 660
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 77 Resp: 232708

Ion	Ratio	Lower	Upper
77	100		
79	30.9	19.4	45.4

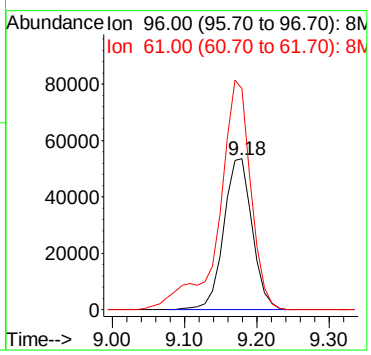


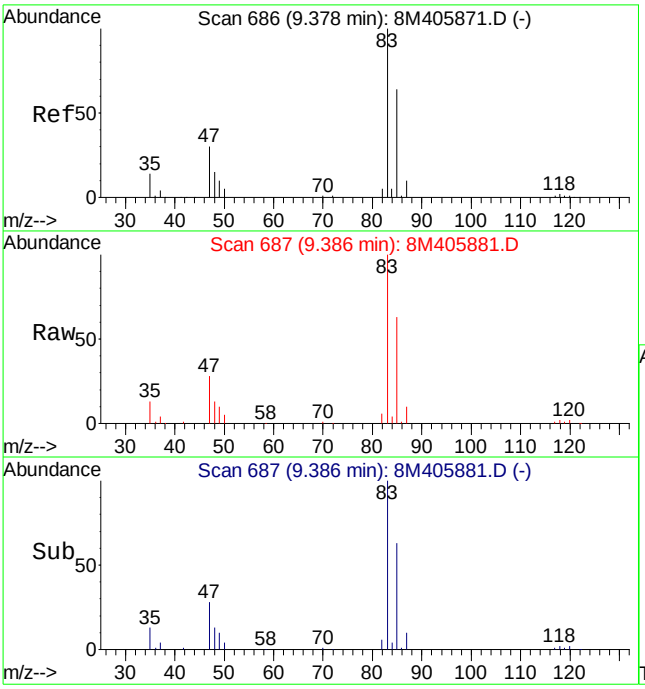


#32
cis-1,2-Dichloroethene
Concen: 20.70 ug/L
RT: 9.18 min Scan# 667
Delta R.T. 0.01 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 96 Resp: 147872

Ion	Ratio	Lower	Upper
96	100		
61	168.9	99.8	233.0

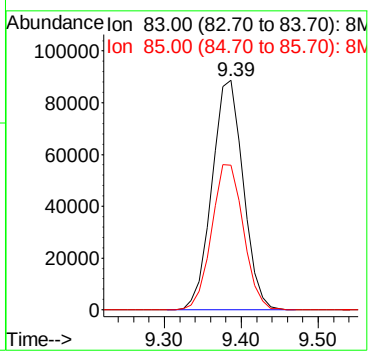


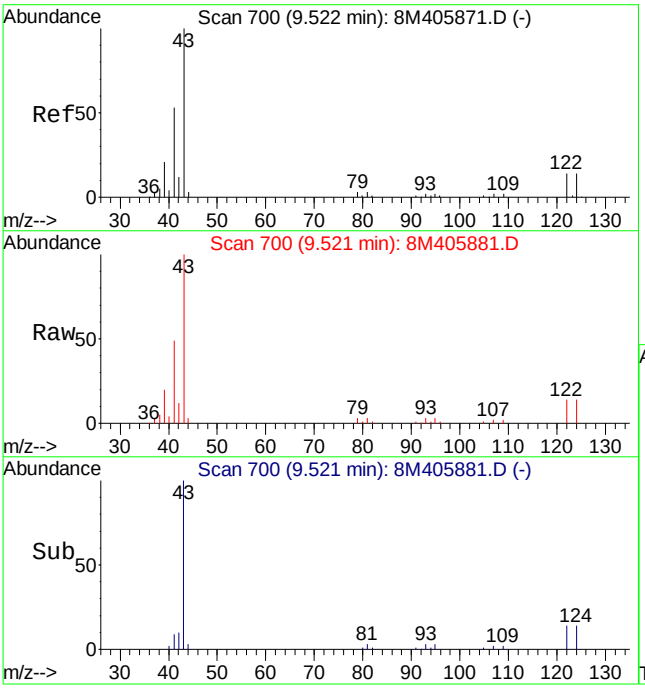


#33
Chloroform
Concen: 20.53 ug/L
RT: 9.39 min Scan# 687
Delta R.T. 0.01 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 83 Resp: 250691

Ion	Ratio	Lower	Upper
83	100		
85	64.4	38.8	90.4

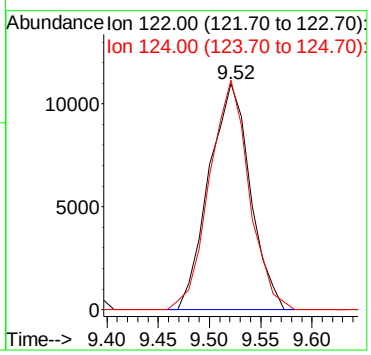


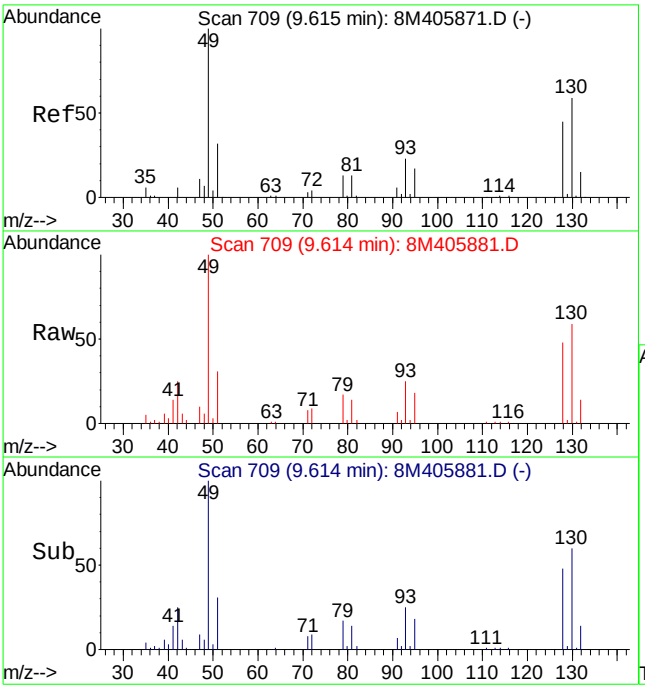


#34
1-Bromopropane
Concen: 26.18 ug/L
RT: 9.52 min Scan# 700
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:122 Resp: 30770

Ion	Ratio	Lower	Upper
122	100		
124	97.2	0.0	213.1

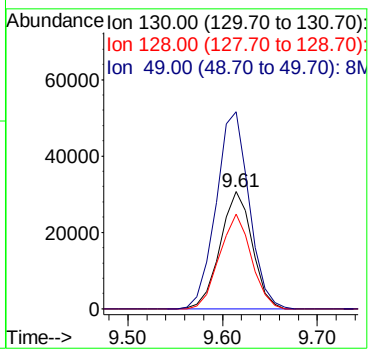


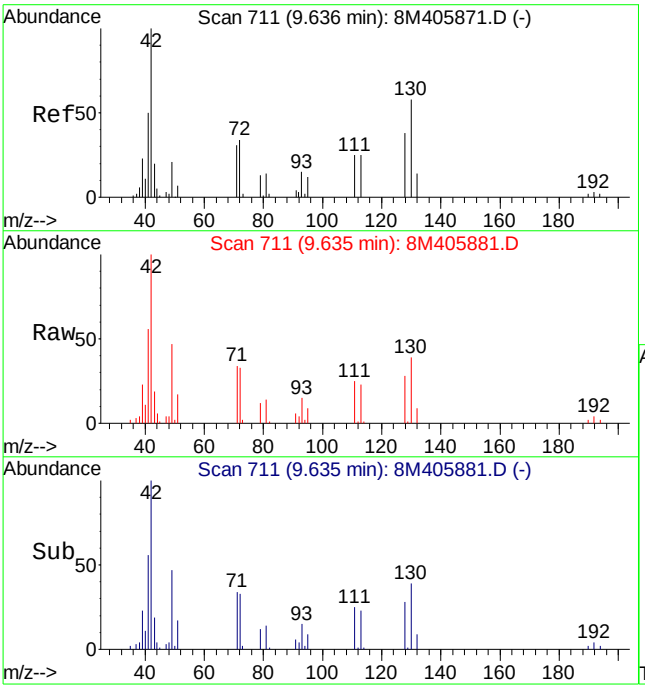


#35
Bromochloromethane
Concen: 20.62 ug/L
RT: 9.61 min Scan# 709
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:130 Resp: 72775

Ion	Ratio	Lower	Upper
130	100		
128	80.1	46.4	108.2
49	172.8	104.0	242.8

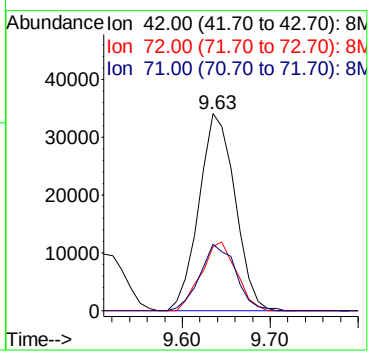


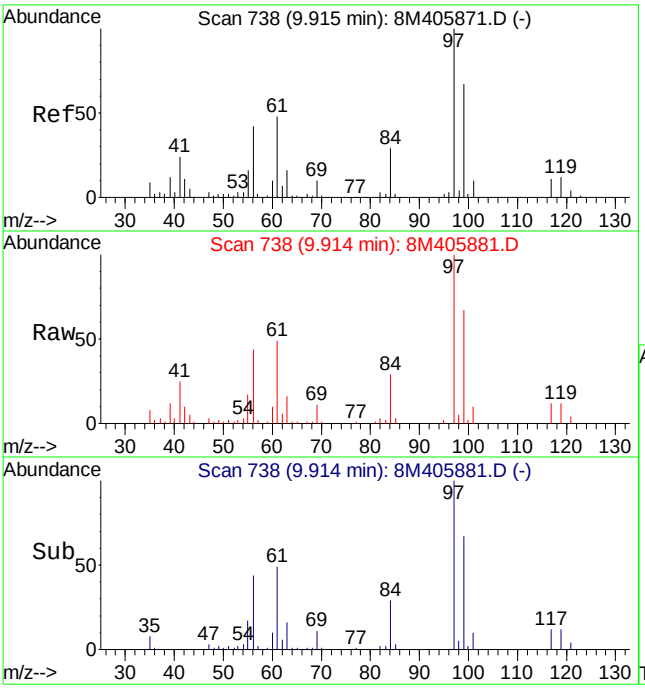


#36
Tetrahydrofuran
Concen: 96.01 ug/L
RT: 9.63 min Scan# 711
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 42 Resp: 97489

Ion	Ratio	Lower	Upper
42	100		
72	33.9	22.4	52.4
71	33.3	19.5	45.5

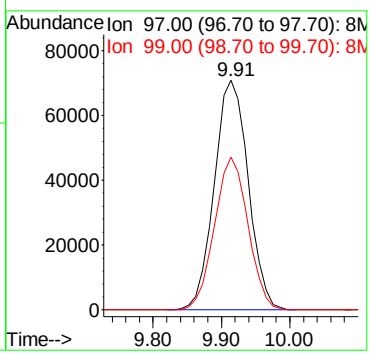


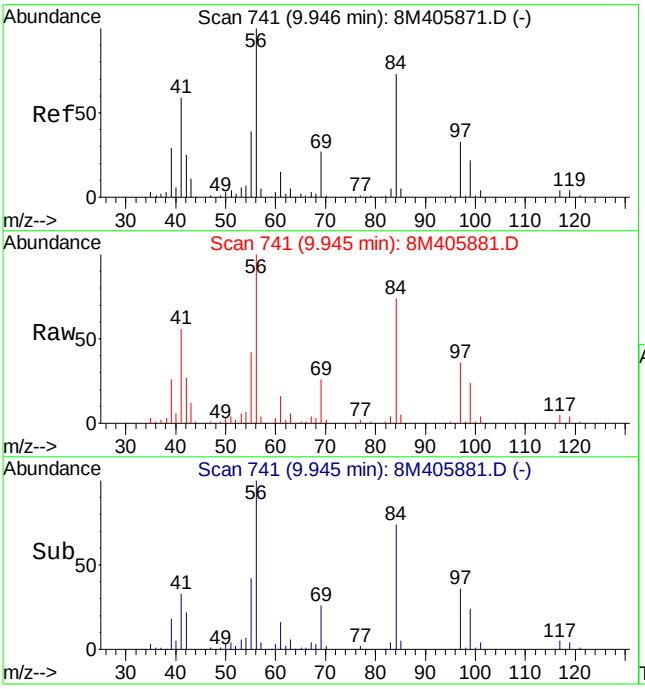


#38
1,1,1-Trichloroethane
Concen: 21.09 ug/L
RT: 9.91 min Scan# 738
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 97 Resp: 244456

Ion	Ratio	Lower	Upper
97	100		
99	65.6	39.7	92.7

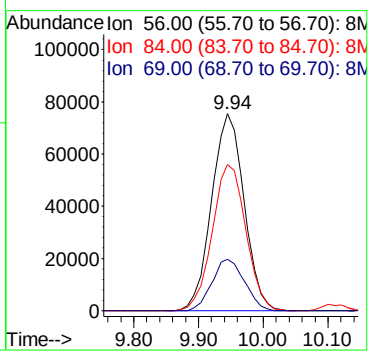


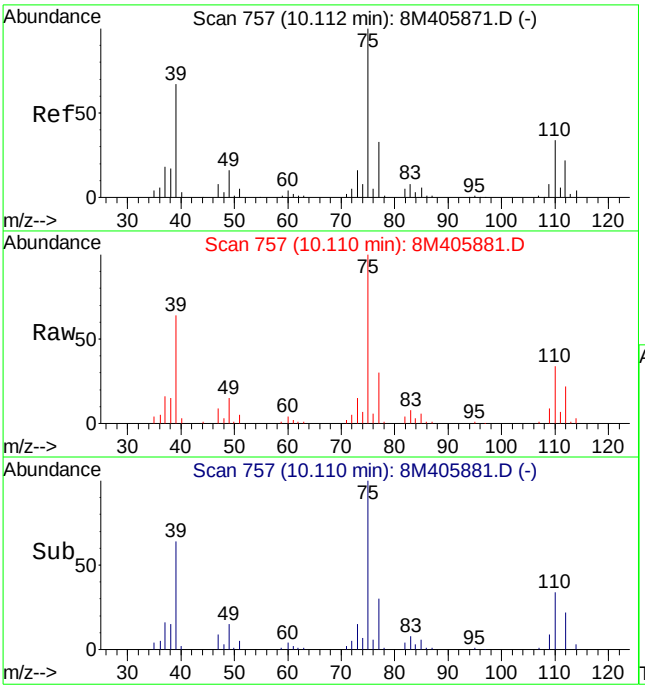


#39
Cyclohexane
Concen: 19.36 ug/L
RT: 9.94 min Scan# 741
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 56 Resp: 262838

Ion	Ratio	Lower	Upper
56	100		
84	76.6	45.4	105.8
69	26.0	15.8	37.0

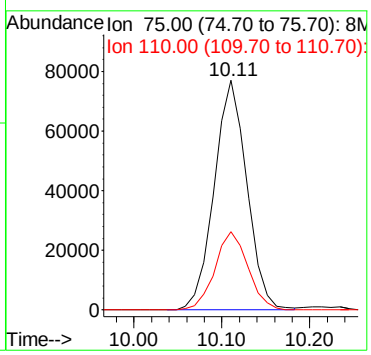


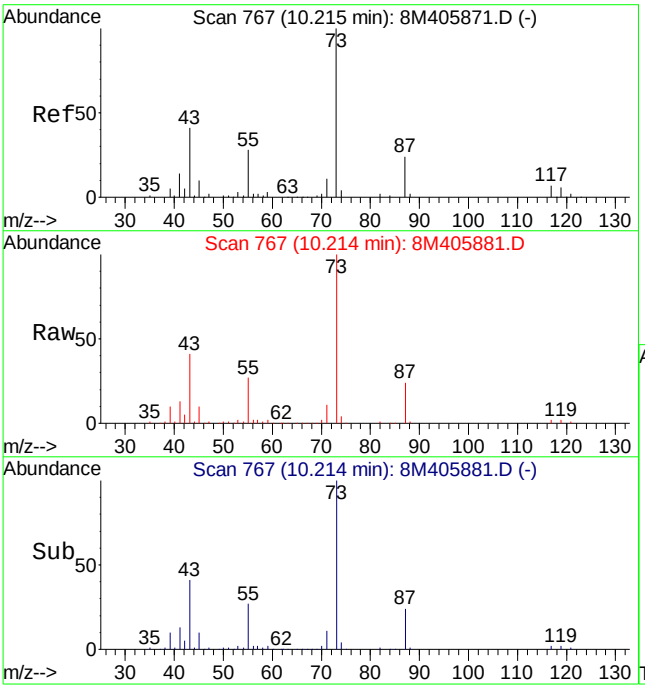


#40
1,1-Dichloropropene
Concen: 21.46 ug/L
RT: 10.11 min Scan# 757
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 75 Resp: 199416

Ion	Ratio	Lower	Upper
75	100		
110	34.2	20.2	47.0

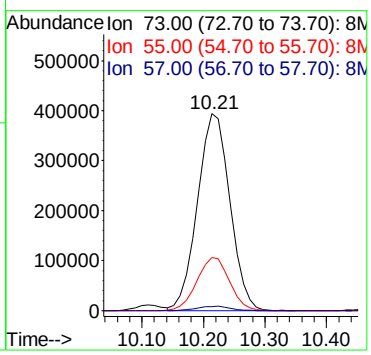


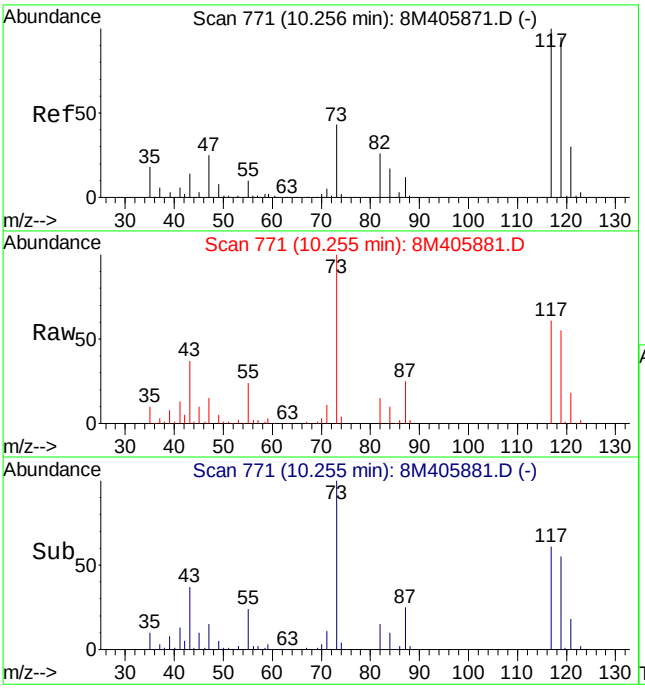


#41
Tert-Amyl-Methyl ether
Concen: 99.54 ug/L
RT: 10.21 min Scan# 767
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 73 Resp: 1443516

Ion	Ratio	Lower	Upper
73	100		
55	27.0	16.1	37.5
57	2.2	1.3	3.1

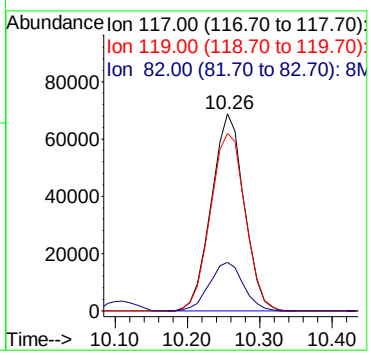


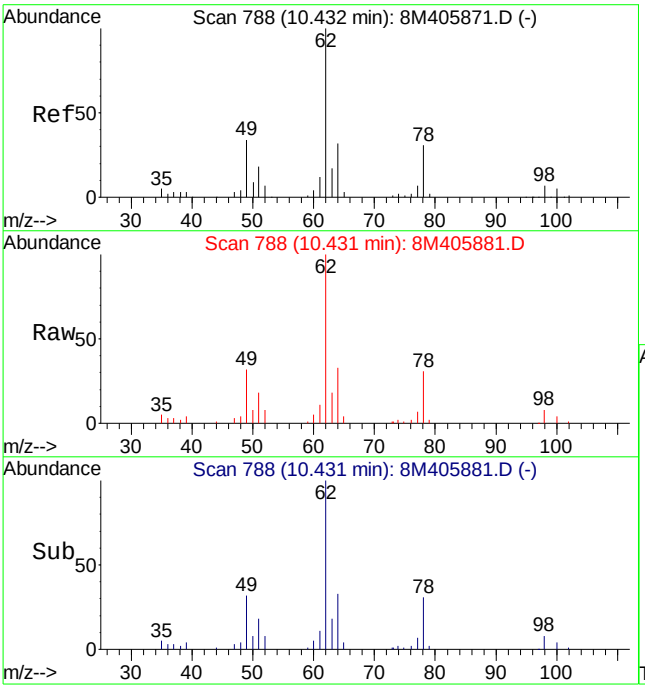


#42
Carbon Tetrachloride
Concen: 20.76 ug/L
RT: 10.26 min Scan# 771
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:117 Resp: 217968

Ion	Ratio	Lower	Upper
117	100		
119	95.2	58.0	135.2
82	25.4	15.7	36.5

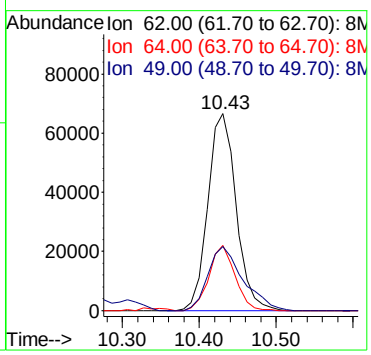


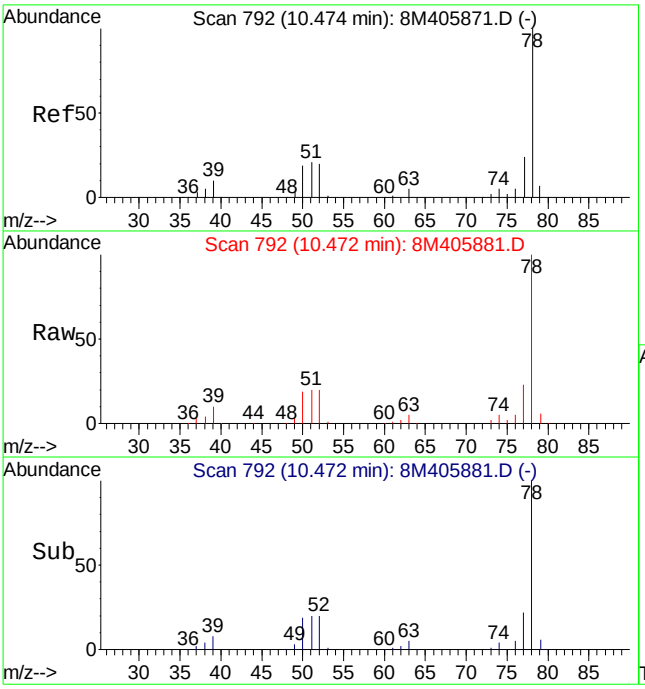


#45
1,2-Dichloroethane
Concen: 20.49 ug/L
RT: 10.43 min Scan# 788
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 62 Resp: 170134

Ion	Ratio	Lower	Upper
62	100		
64	30.6	18.8	44.0
49	40.3	25.3	58.9

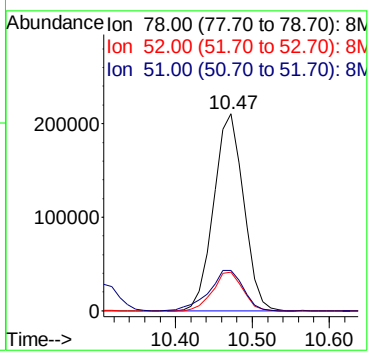


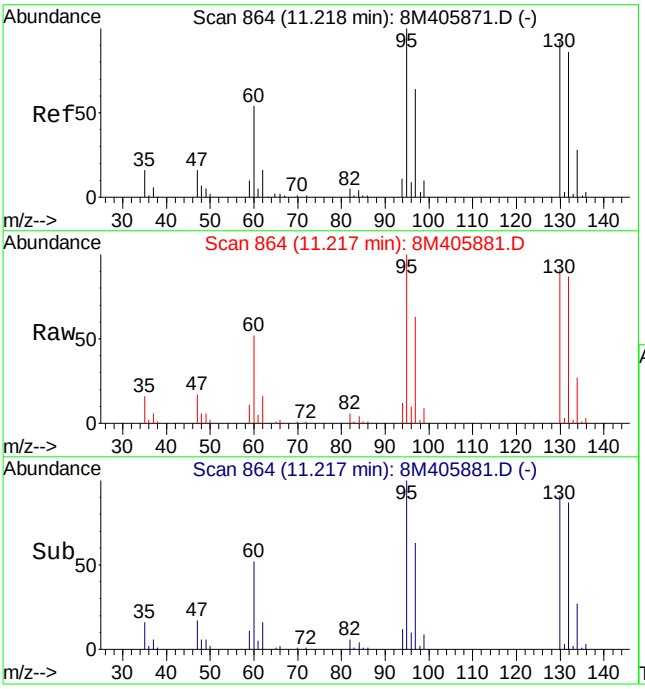


#46
Benzene
Concen: 21.35 ug/L
RT: 10.47 min Scan# 792
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 78 Resp: 568746

Ion	Ratio	Lower	Upper
78	100		
52	19.6	12.1	28.1
51	23.6	14.6	34.2

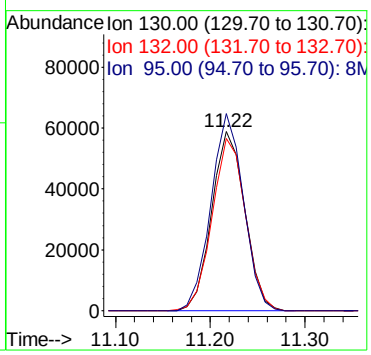


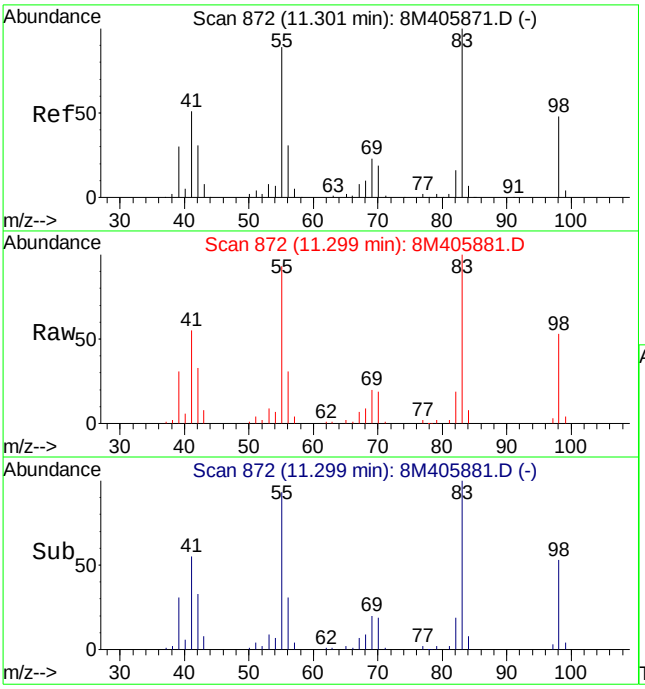


#47
Trichloroethene
Concen: 21.72 ug/L
RT: 11.22 min Scan# 864
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:130 Resp: 143918

Ion	Ratio	Lower	Upper
130	100		
132	96.6	59.0	137.6
95	108.0	65.0	151.8

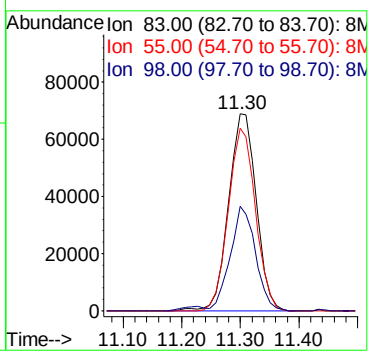


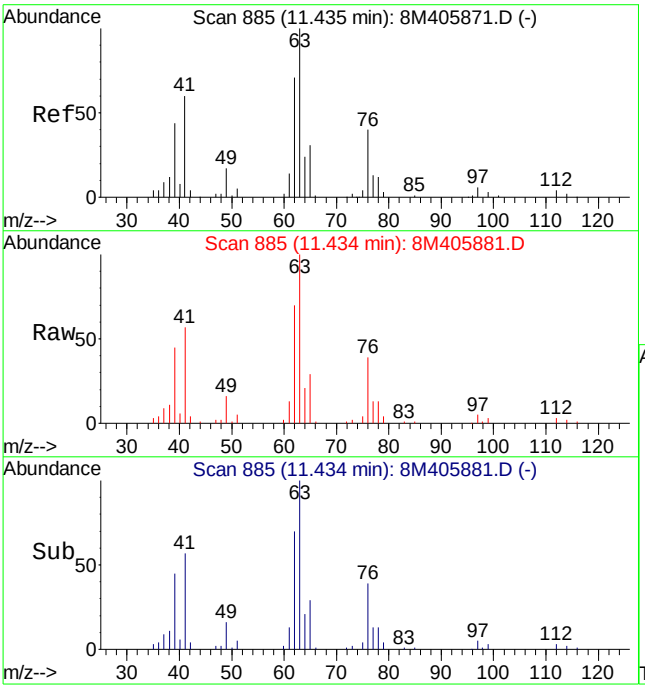


#48
Methylcyclohexane
Concen: 20.86 ug/L
RT: 11.30 min Scan# 872
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 83 Resp: 225296

Ion	Ratio	Lower	Upper
83	100		
55	91.0	54.8	128.0
98	48.4	29.0	67.8

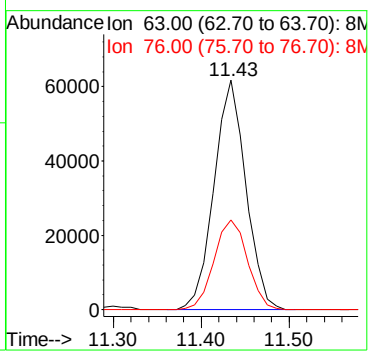


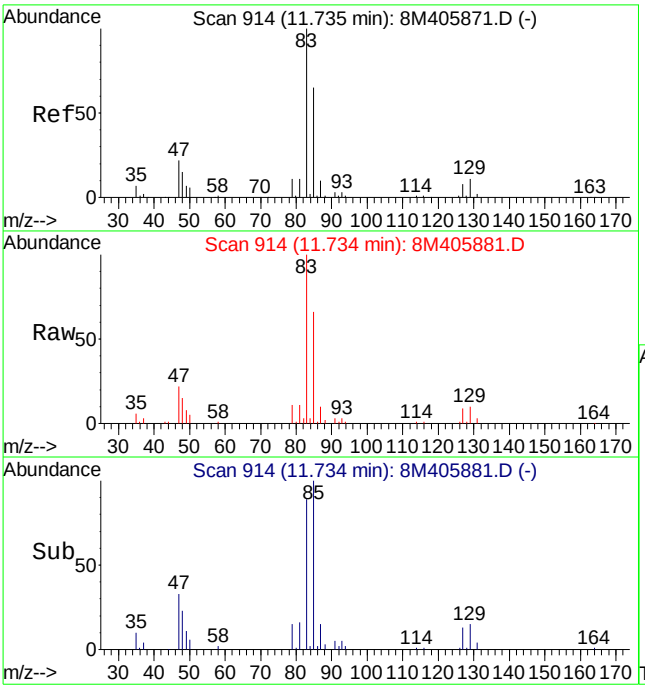


#49
1,2-Dichloropropane
Concen: 21.05 ug/L
RT: 11.43 min Scan# 885
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 63 Resp: 155573

Ion	Ratio	Lower	Upper
63	100		
76	41.0	24.4	57.0

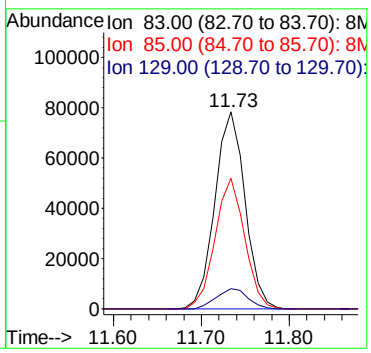


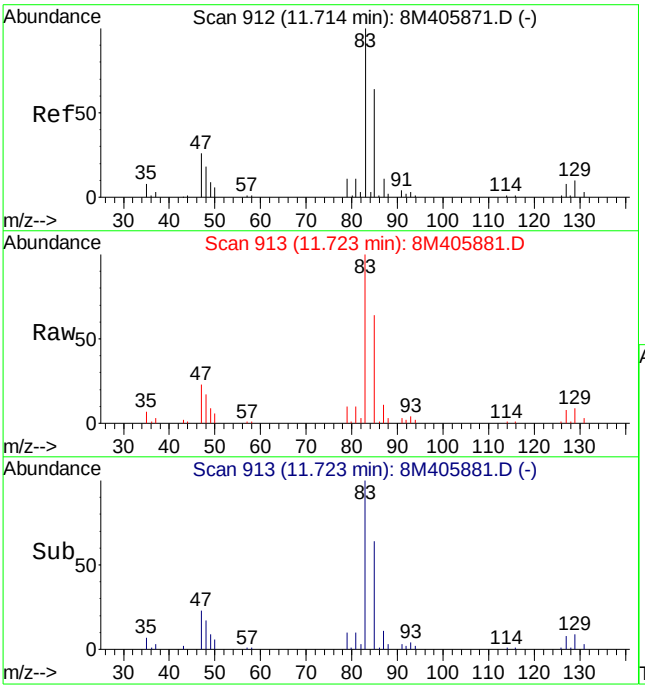


#50
Bromodichloromethane
Concen: 20.55 ug/L
RT: 11.73 min Scan# 914
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 83 Resp: 187451

Ion	Ratio	Lower	Upper
83	100		
85	64.8	38.6	90.2
129	10.7	6.6	15.4

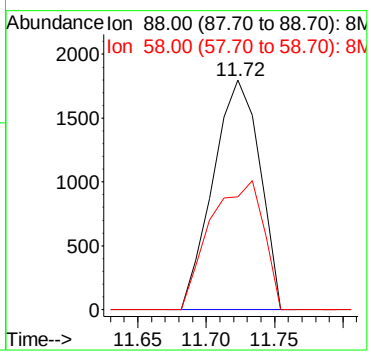


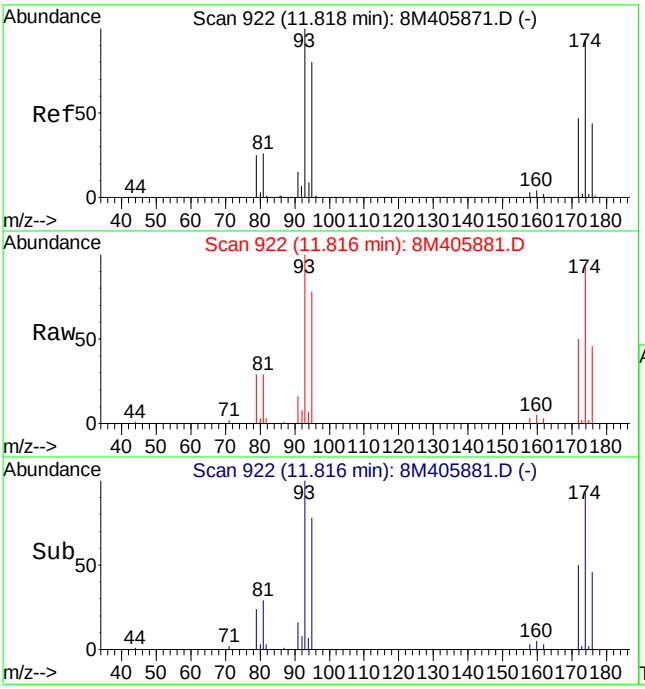


#51
1,4-Dioxane
Concen: 177.63 ug/L
RT: 11.72 min Scan# 913
Delta R.T. 0.01 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 88 Resp: 4273

Ion	Ratio	Lower	Upper
88	100		
58	63.6	46.9	109.3

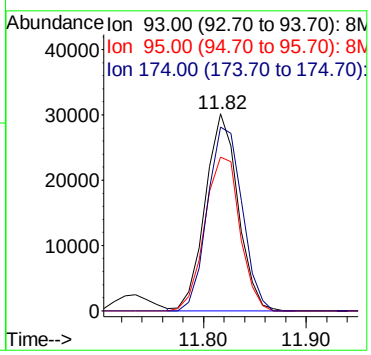


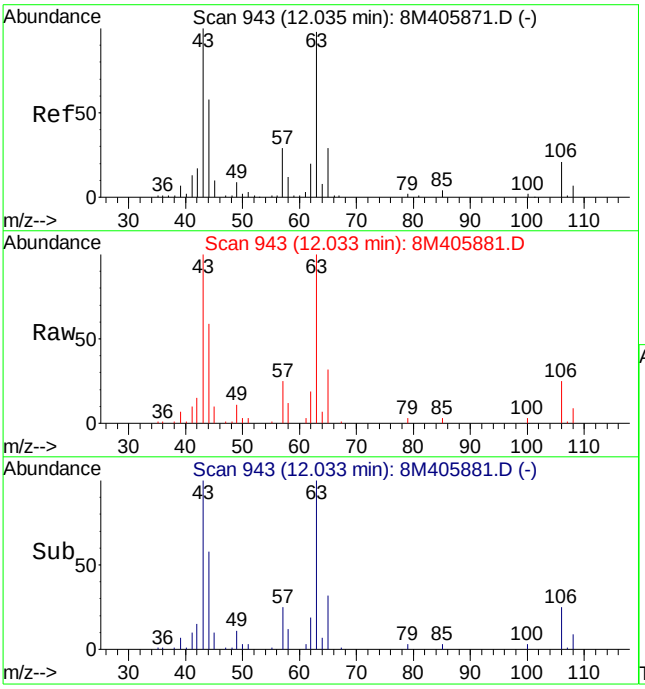


#52
Dibromomethane
Concen: 19.68 ug/L
RT: 11.82 min Scan# 922
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 93 Resp: 67207

Ion	Ratio	Lower	Upper
93	100		
95	83.2	48.9	114.1
174	97.9	58.1	135.5

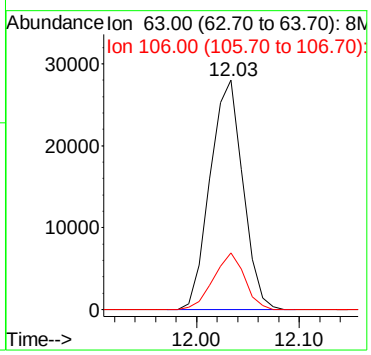


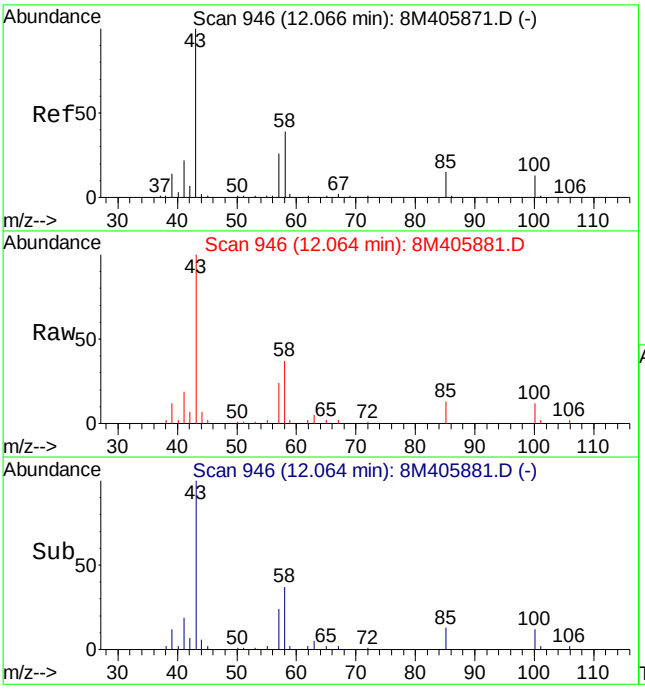


#53
2-Chloroethyl Vinyl Ether
Concen: 19.30 ug/L
RT: 12.03 min Scan# 943
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 63 Resp: 62312

Ion	Ratio	Lower	Upper
63	100		
106	23.4	13.7	31.9

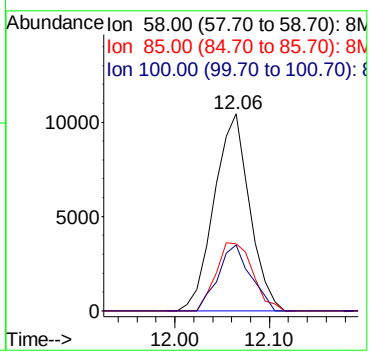


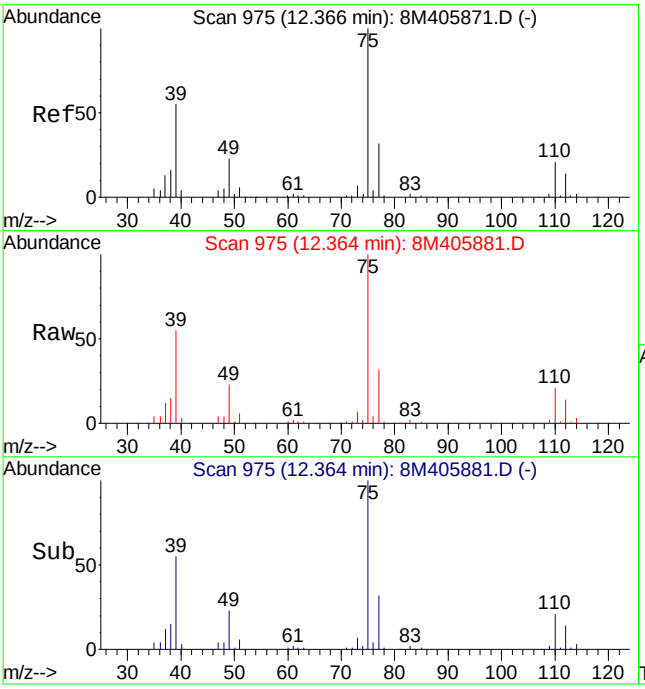


#54
4-Methyl-2-Pentanone
Concen: 19.89 ug/L
RT: 12.06 min Scan# 946
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 58 Resp: 27327

Ion	Ratio	Lower	Upper
58	100		
85	35.7	21.8	51.0
100	30.7	19.4	45.4

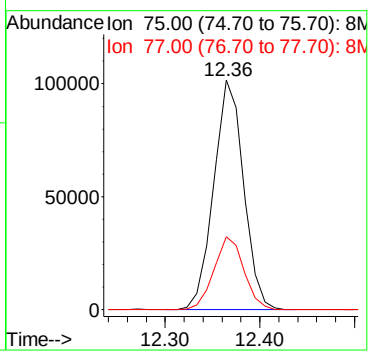


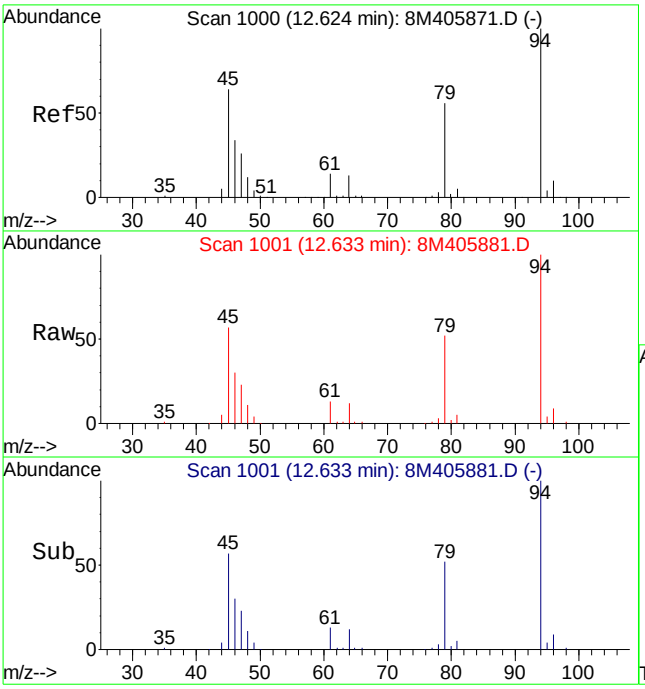


#55
cis-1,3-Dichloropropene
Concen: 22.15 ug/L
RT: 12.36 min Scan# 975
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 75 Resp: 224134

Ion	Ratio	Lower	Upper
75	100		
77	31.7	18.9	44.1

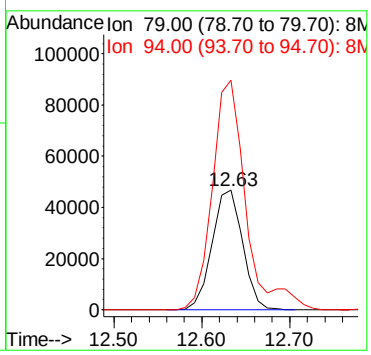


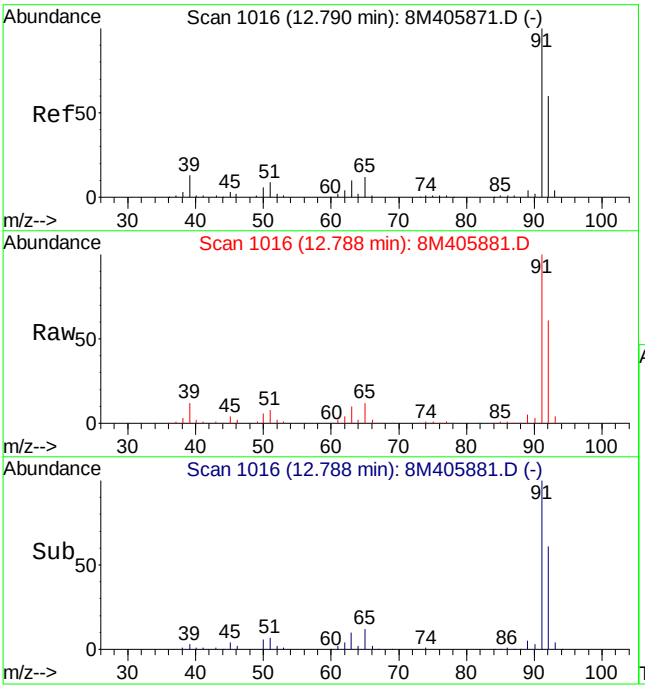


#56
Dimethyl Disulfide
Concen: 20.06 ug/L
RT: 12.63 min Scan# 1001
Delta R.T. 0.01 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 79 Resp: 113008

Ion	Ratio	Lower	Upper
79	100		
94	209.4	114.7	267.7

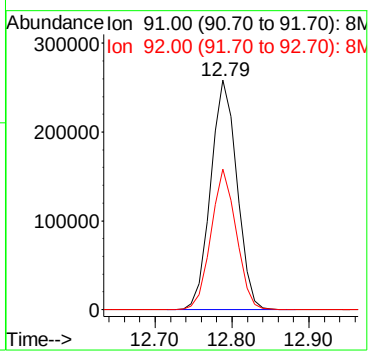


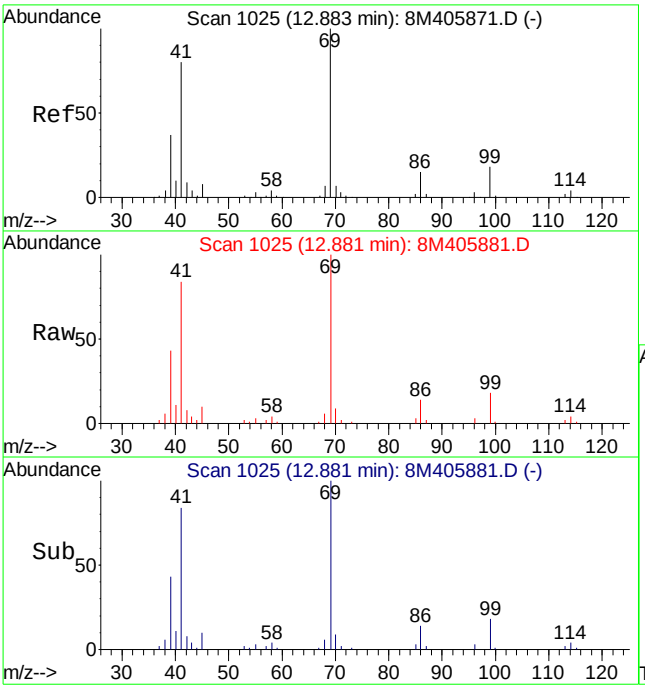


#59
Toluene
Concen: 21.92 ug/L
RT: 12.79 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 91 Resp: 613986

Ion	Ratio	Lower	Upper
91	100		
92	58.9	35.7	83.3

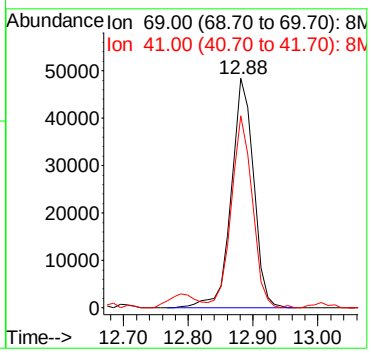


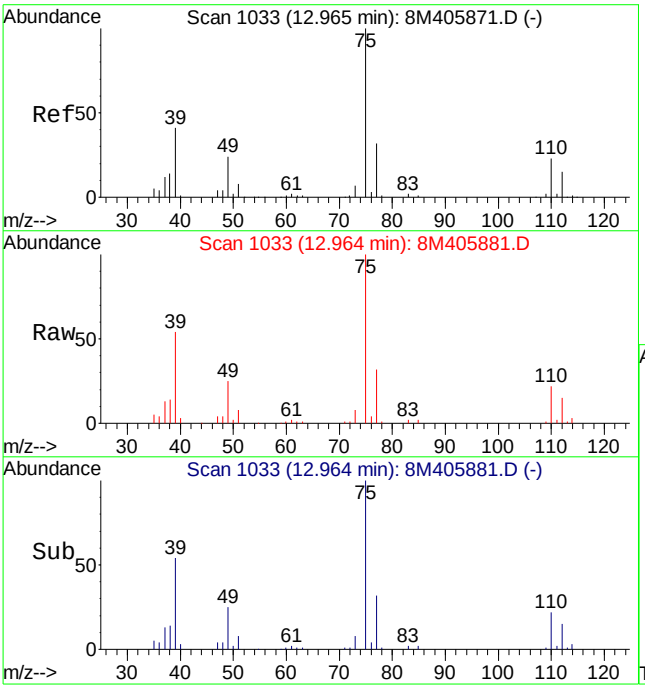


#60
Ethyl Methacrylate
Concen: 22.42 ug/L
RT: 12.88 min Scan# 1025
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 69 Resp: 115797

Ion	Ratio	Lower	Upper
69	100		
41	78.9	48.5	113.3

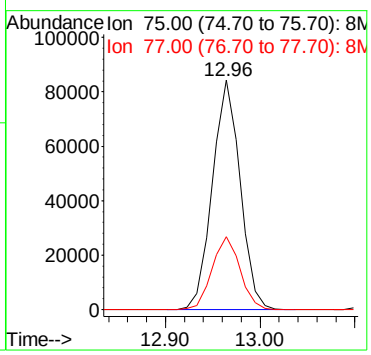


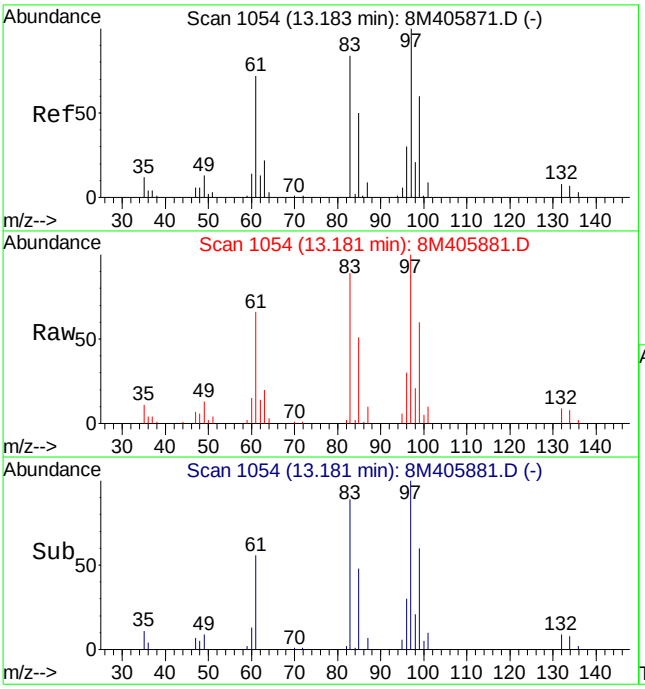


#62
trans-1,3-Dichloropropene
Concen: 19.97 ug/L
RT: 12.96 min Scan# 1033
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 75 Resp: 172496

Ion	Ratio	Lower	Upper
75	100		
77	32.0	19.2	44.8

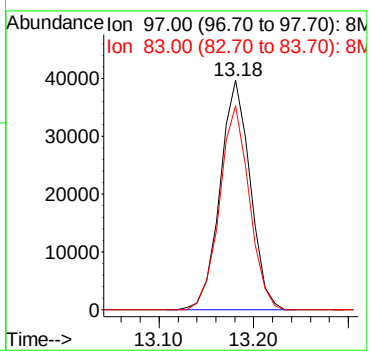


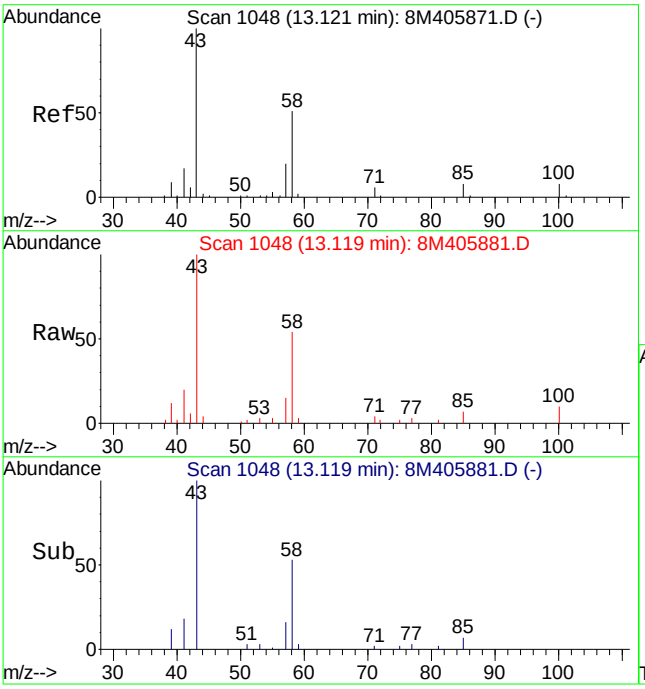


#63
1,1,2-Trichloroethane
Concen: 20.42 ug/L
RT: 13.18 min Scan# 1054
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 97 Resp: 88384

Ion	Ratio	Lower	Upper
97	100		
83	87.9	51.1	119.1

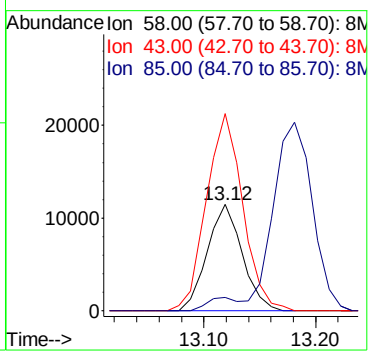


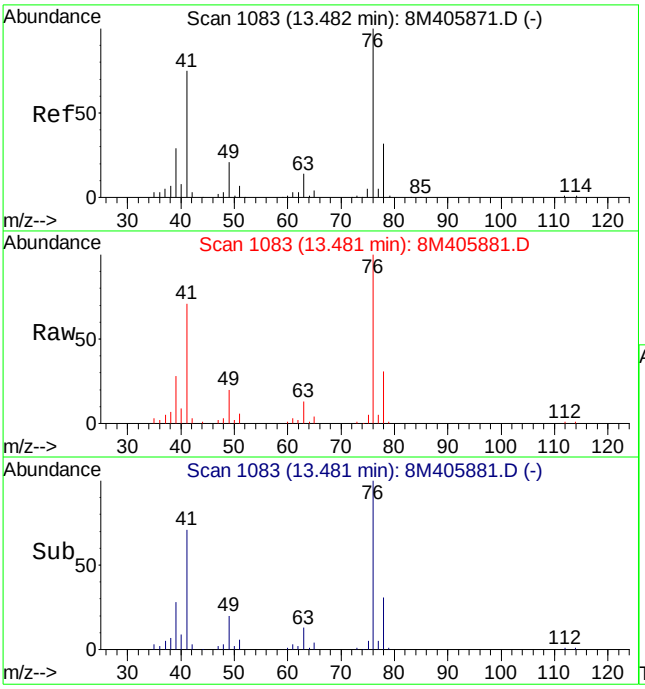


#64
2-Hexanone
Concen: 19.88 ug/L
RT: 13.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 58 Resp: 24865

Ion	Ratio	Lower	Upper
58	100		
43	192.9	116.8	272.4
85	208.4	0.0	0.0#

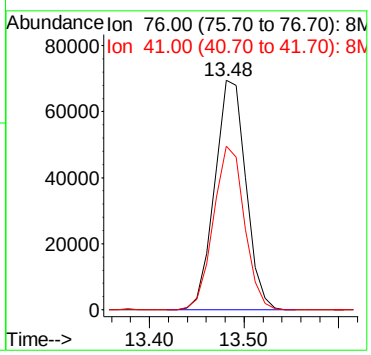


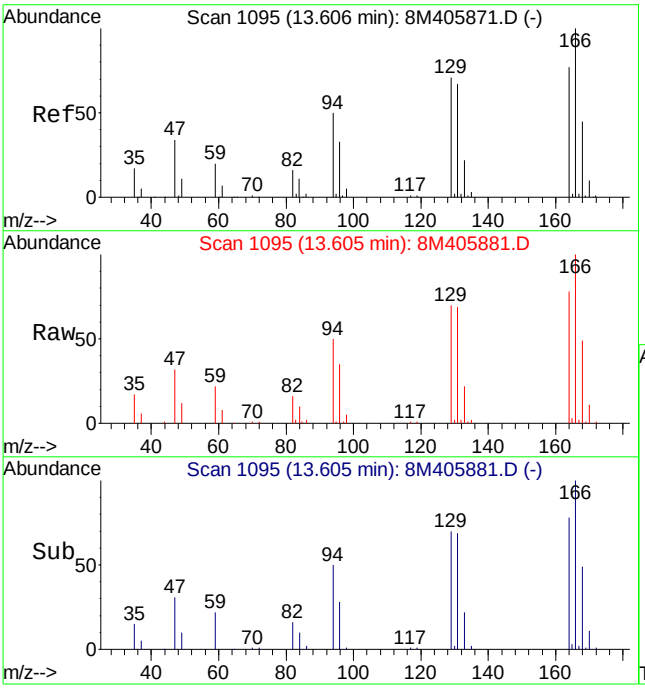


#65
1,3-Dichloropropane
Concen: 21.12 ug/L
RT: 13.48 min Scan# 1083
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 76 Resp: 160173

Ion	Ratio	Lower	Upper
76	100		
41	70.7	43.3	100.9

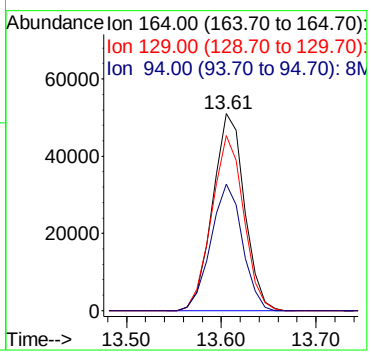


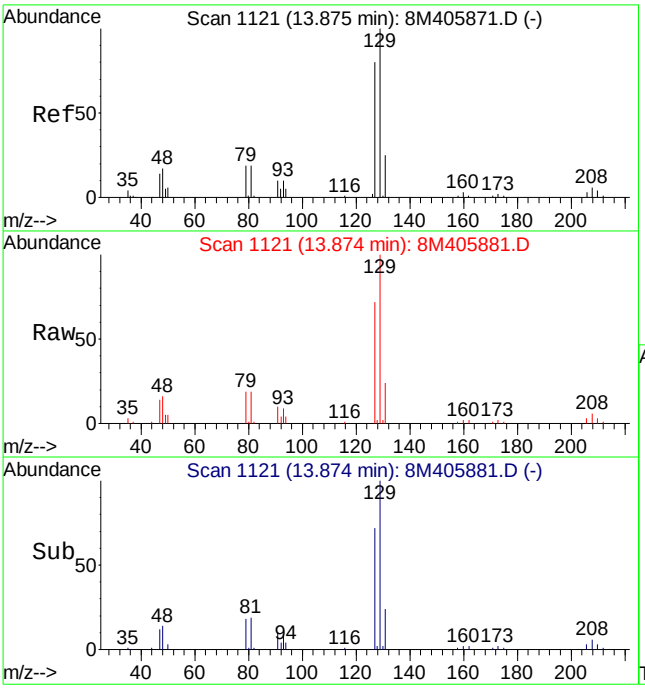


#66
Tetrachloroethene
Concen: 20.95 ug/L
RT: 13.61 min Scan# 1095
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:164 Resp: 119839

Ion	Ratio	Lower	Upper
164	100		
129	89.3	54.3	126.7
94	63.7	38.3	89.5

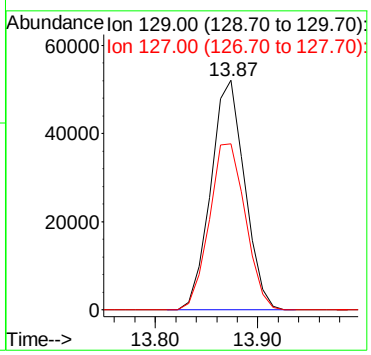


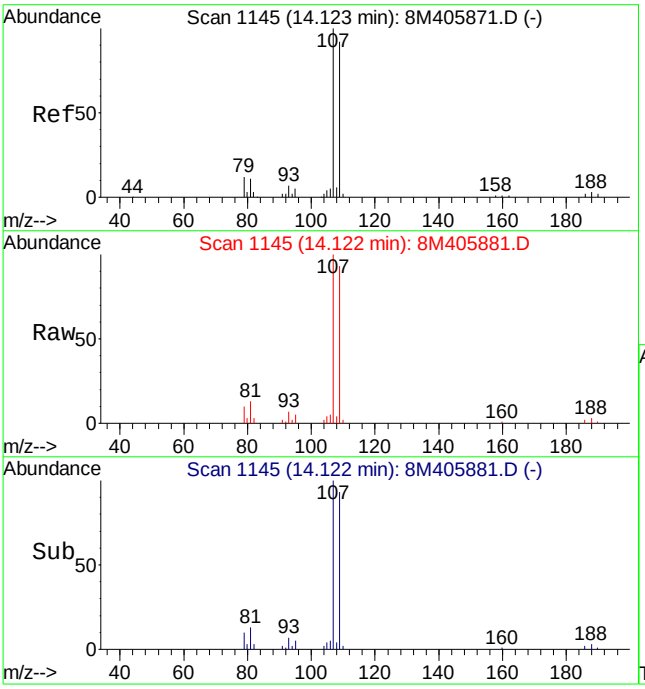


#67
Dibromochloromethane
Concen: 19.08 ug/L
RT: 13.87 min Scan# 1121
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:129 Resp: 119770

Ion	Ratio	Lower	Upper
129	100		
127	76.7	46.4	108.2

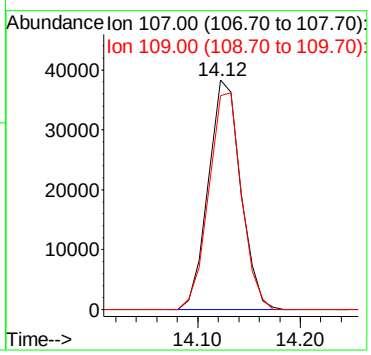


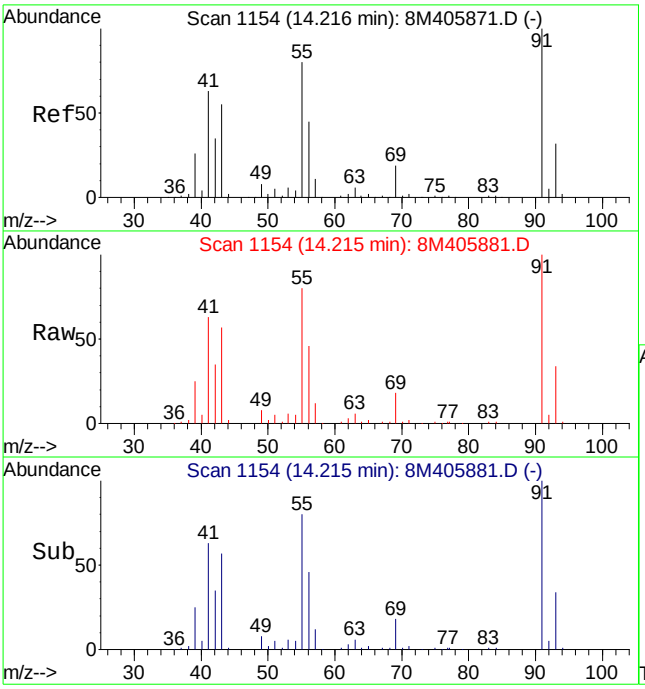


#68
1,2-Dibromoethane
Concen: 20.19 ug/L
RT: 14.12 min Scan# 1145
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:107 Resp: 84114

Ion	Ratio	Lower	Upper
107	100		
109	95.2	56.5	131.7

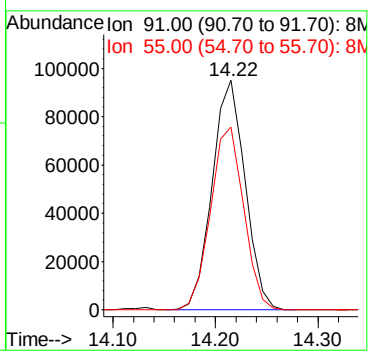


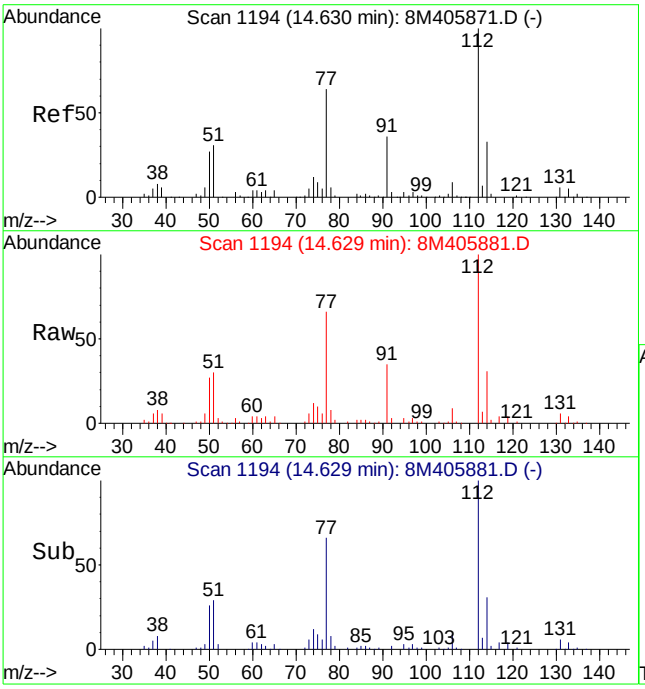


#69
1-Chlorohexane
Concen: 21.73 ug/L
RT: 14.22 min Scan# 1154
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 91 Resp: 212359

Ion	Ratio	Lower	Upper
91	100		
55	80.0	48.3	112.7

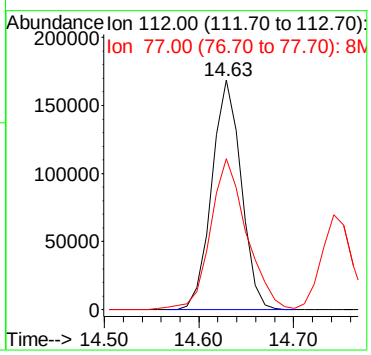


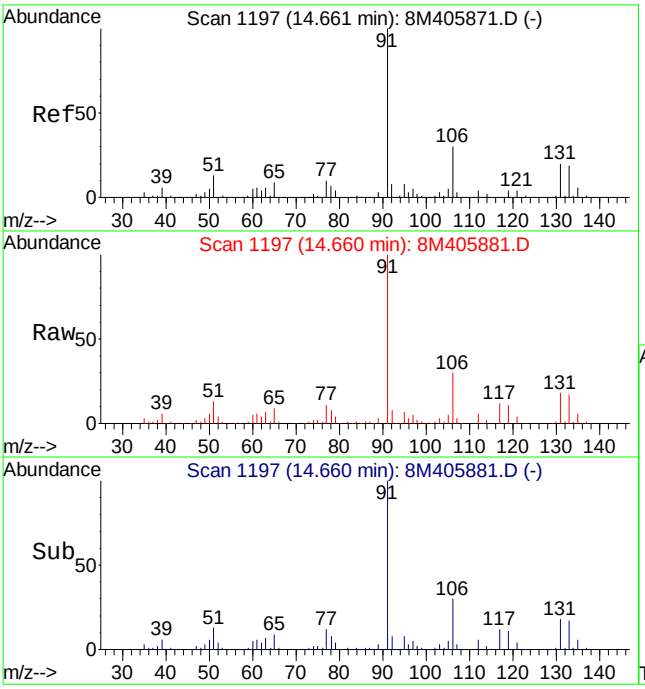


#70
Chlorobenzene
Concen: 19.49 ug/L
RT: 14.63 min Scan# 1194
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:112 Resp: 365967

Ion	Ratio	Lower	Upper
112	100		
77	80.8	47.6	111.0

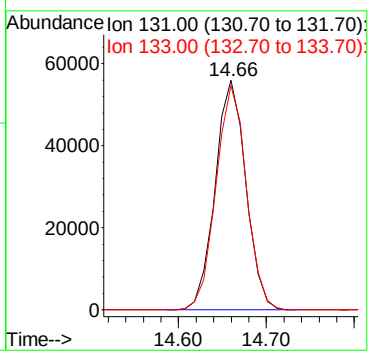


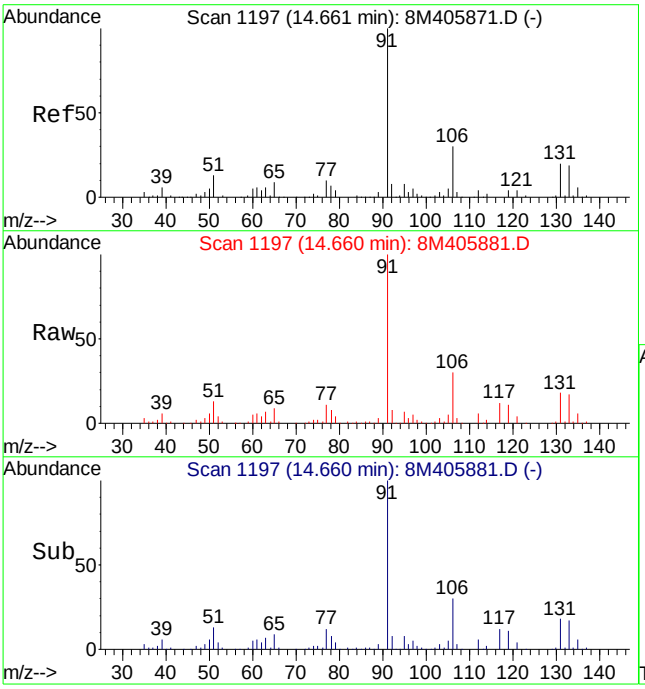


#71
1,1,1,2-Tetrachloroethane
Concen: 19.94 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:131 Resp: 136137

Ion	Ratio	Lower	Upper
131	100		
133	96.6	57.1	133.1

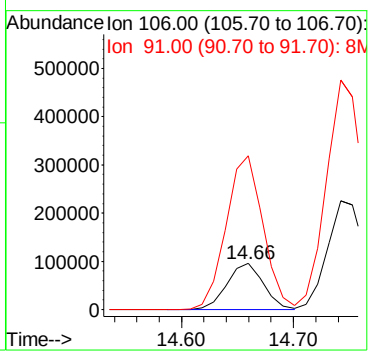


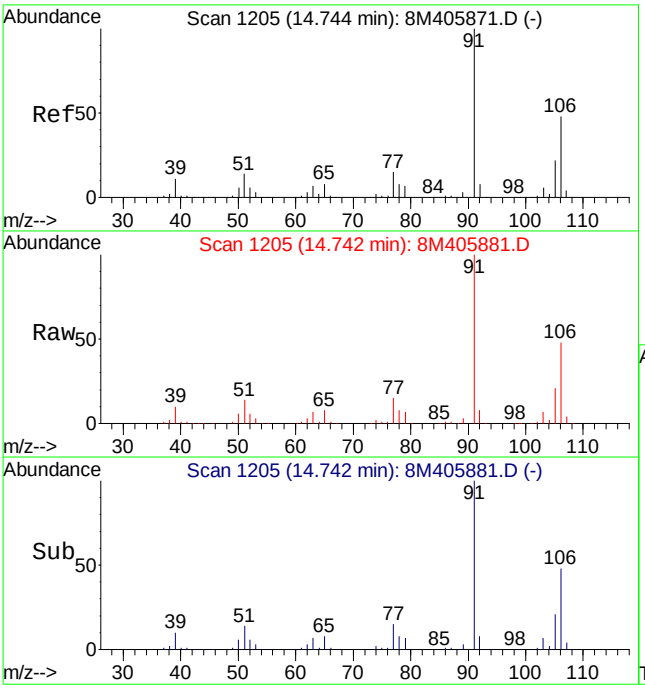


#72
Ethylbenzene
Concen: 20.70 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:106 Resp: 218647

Ion	Ratio	Lower	Upper
106	100		
91	335.4	199.7	466.1

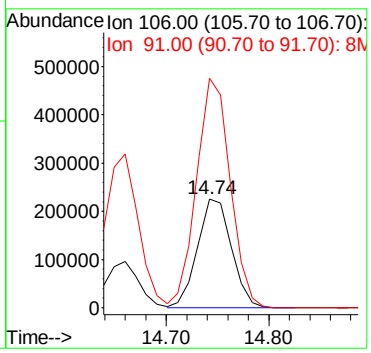


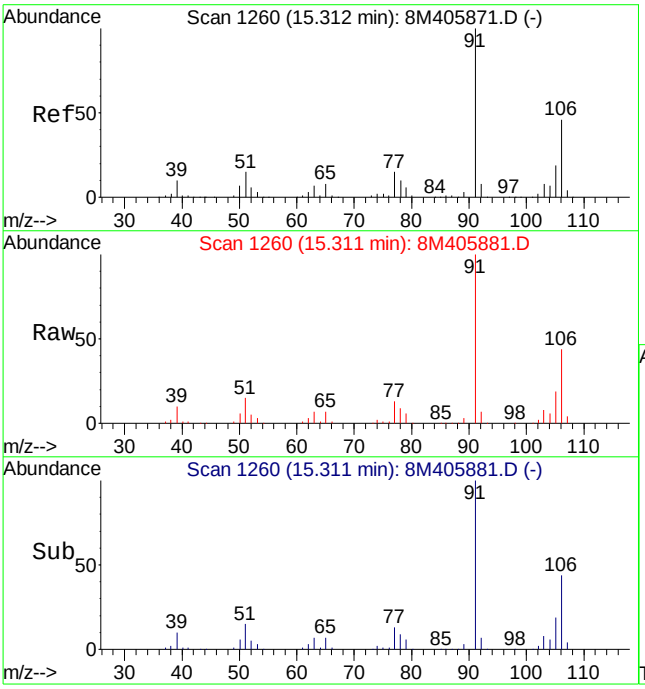


#73
m-,p-Xylene
Concen: 41.79 ug/L
RT: 14.74 min Scan# 1205
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:106 Resp: 519915

Ion	Ratio	Lower	Upper
106	100		
91	209.5	125.1	291.9

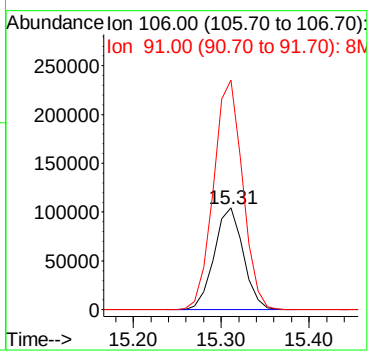


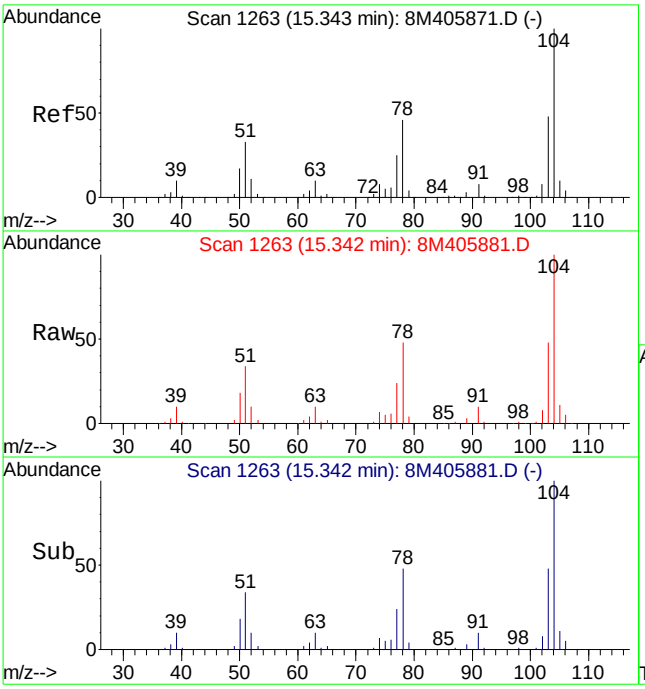


#74
o-Xylene
Concen: 19.84 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:106 Resp: 239405

Ion	Ratio	Lower	Upper
106	100		
91	226.2	134.3	313.5

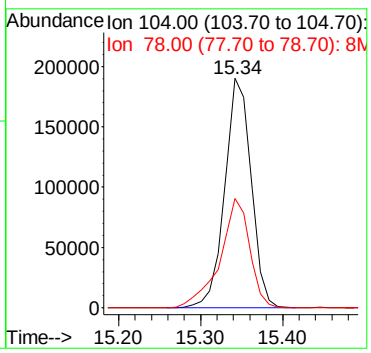


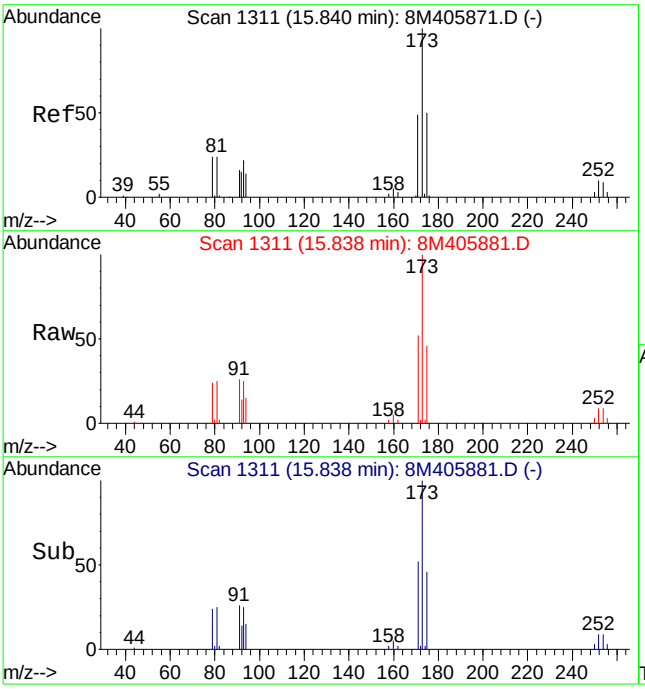


#75
Styrene
Concen: 21.94 ug/L
RT: 15.34 min Scan# 1263
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:104 Resp: 425539

Ion	Ratio	Lower	Upper
104	100		
78	53.4	32.9	76.7

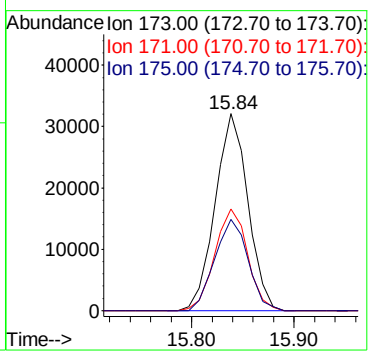


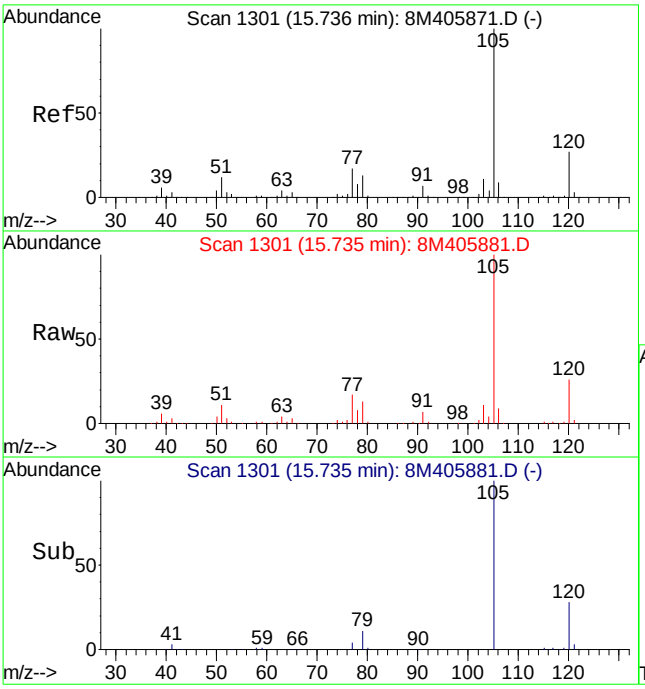


#76
Bromoform
Concen: 18.96 ug/L
RT: 15.84 min Scan# 1311
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:173 Resp: 71249

Ion	Ratio	Lower	Upper
173	100		
171	51.7	30.5	71.1
175	47.1	29.8	69.4

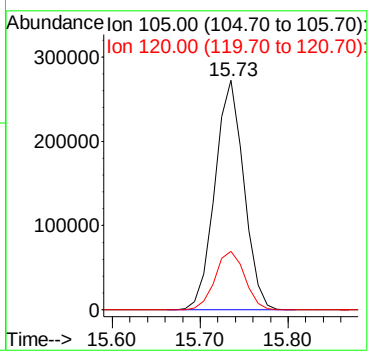


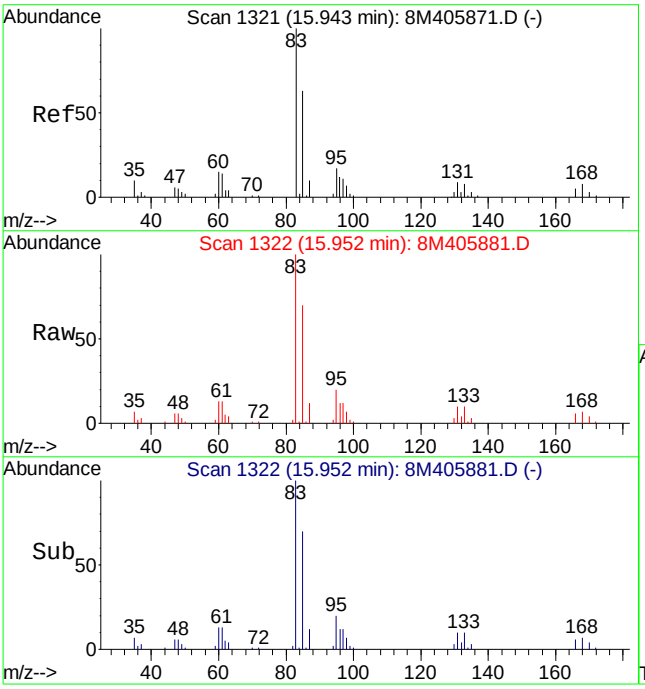


#77
Isopropylbenzene
Concen: 20.63 ug/L
RT: 15.73 min Scan# 1301
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:105 Resp: 624547

Ion	Ratio	Lower	Upper
105	100		
120	26.3	16.0	37.2

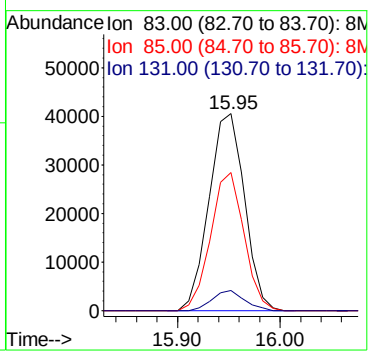


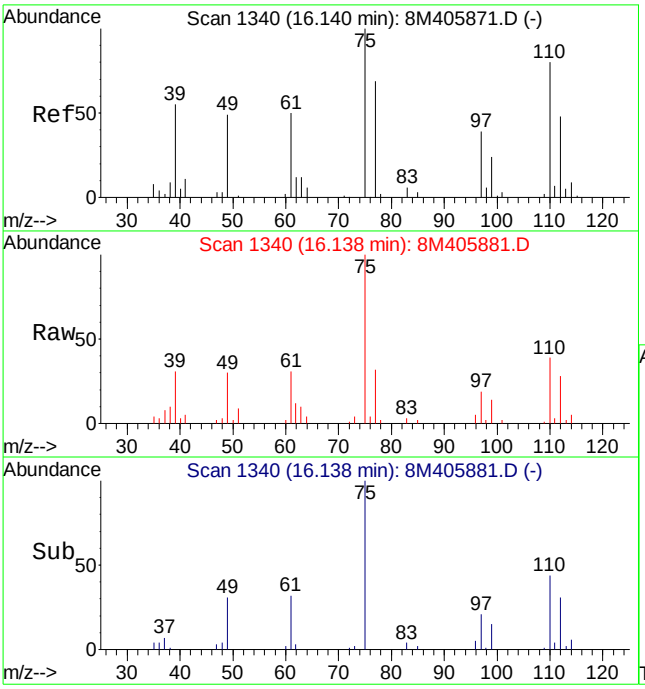


#79
1,1,2,2-Tetrachloroethane
Concen: 20.91 ug/L
RT: 15.95 min Scan# 1322
Delta R.T. 0.01 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 83 Resp: 97699

Ion	Ratio	Lower	Upper
83	100		
85	65.9	38.3	89.3
131	9.3	5.8	13.4

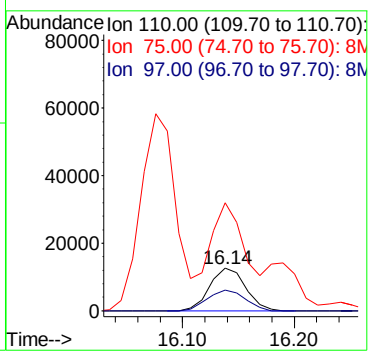


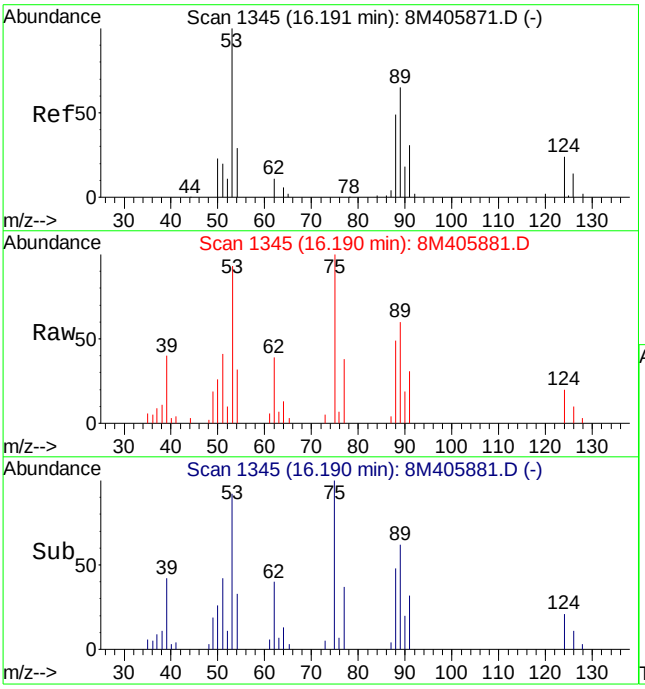


#81
1,2,3-Trichloropropane
Concen: 20.86 ug/L
RT: 16.14 min Scan# 1340
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:110 Resp: 27979

Ion	Ratio	Lower	Upper
110	100		
75	155.4	168.8	393.8#
97	51.0	31.0	72.2

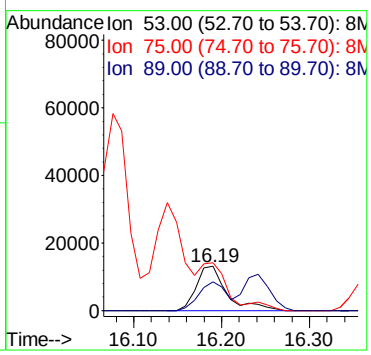


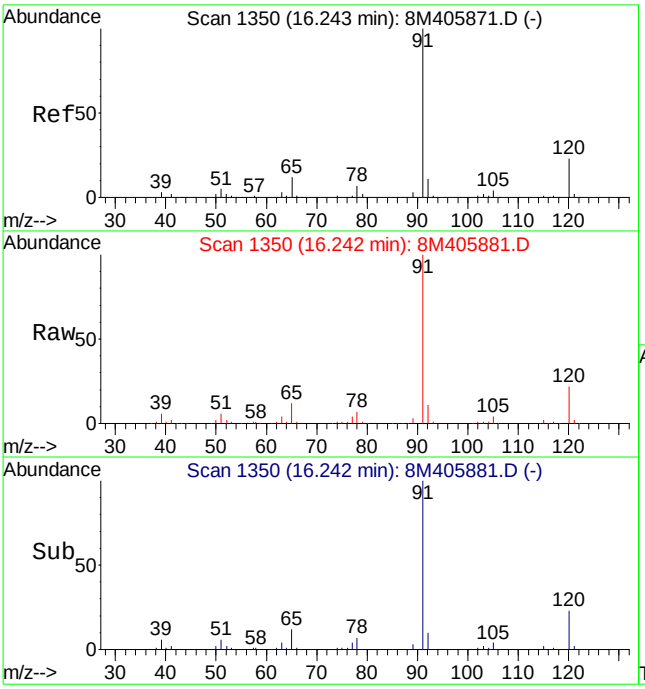


#82
trans-1,4-Dichloro-2-Butene
Concen: 18.94 ug/L
RT: 16.19 min Scan# 1345
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 53 Resp: 31518

Ion	Ratio	Lower	Upper
53	100		
75	137.9	58.5	136.5#
89	57.8	33.5	78.1

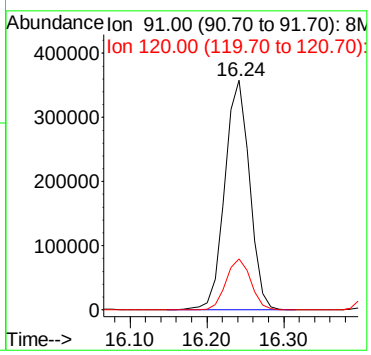


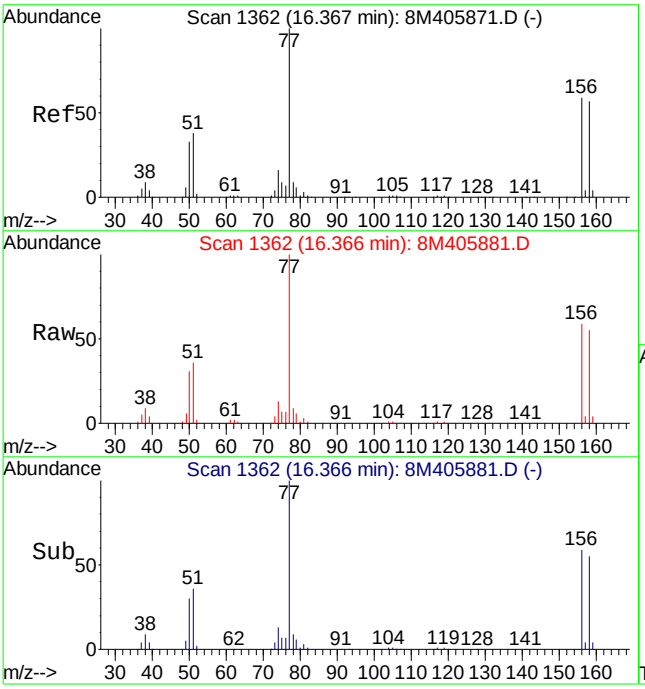


#83
n-Propylbenzene
Concen: 21.23 ug/L
RT: 16.24 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 91 Resp: 798899

Ion	Ratio	Lower	Upper
91	100		
120	21.9	13.1	30.5

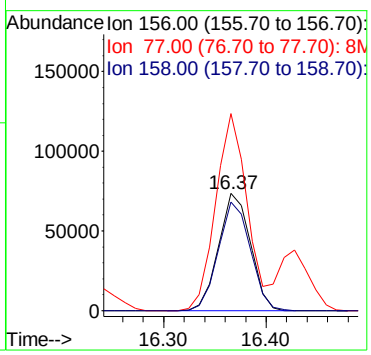


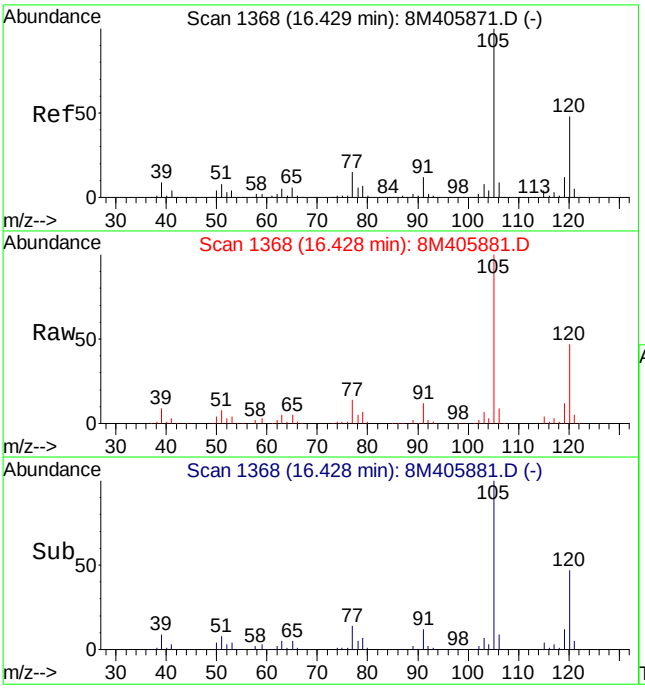


#84
Bromobenzene
Concen: 20.69 ug/L
RT: 16.37 min Scan# 1362
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:156 Resp: 158806

Ion	Ratio	Lower	Upper
156	100		
77	163.9	100.2	233.8
158	93.3	58.1	135.7

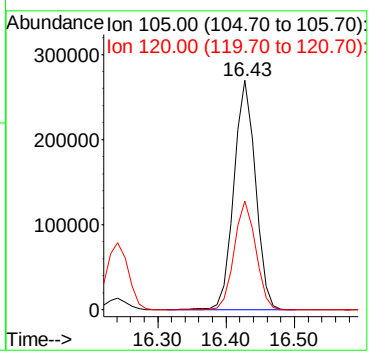


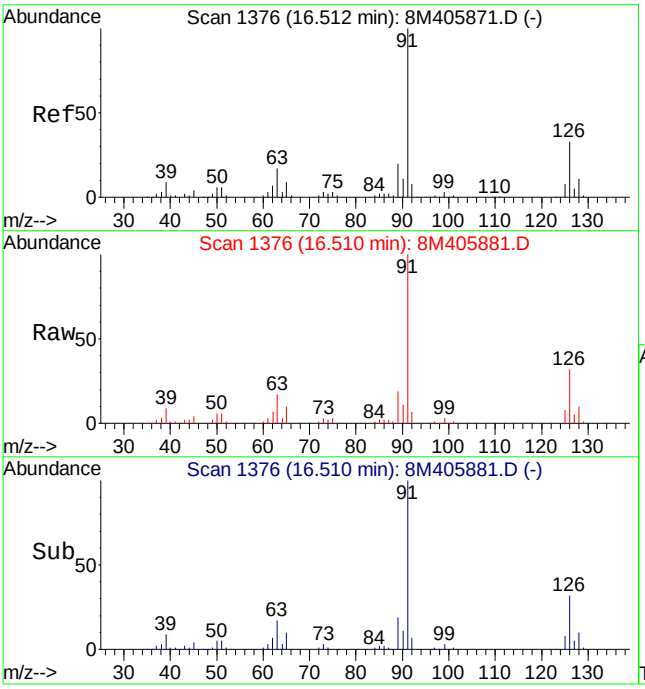


#85
1,3,5-Trimethylbenzene
Concen: 22.53 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:105 Resp: 591040

Ion	Ratio	Lower	Upper
105	100		
120	47.4	28.8	67.2

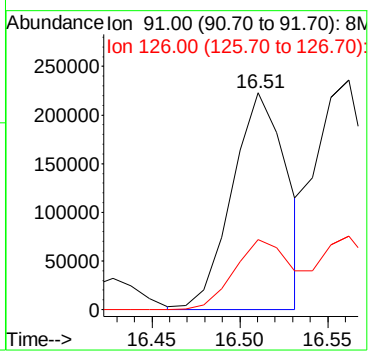


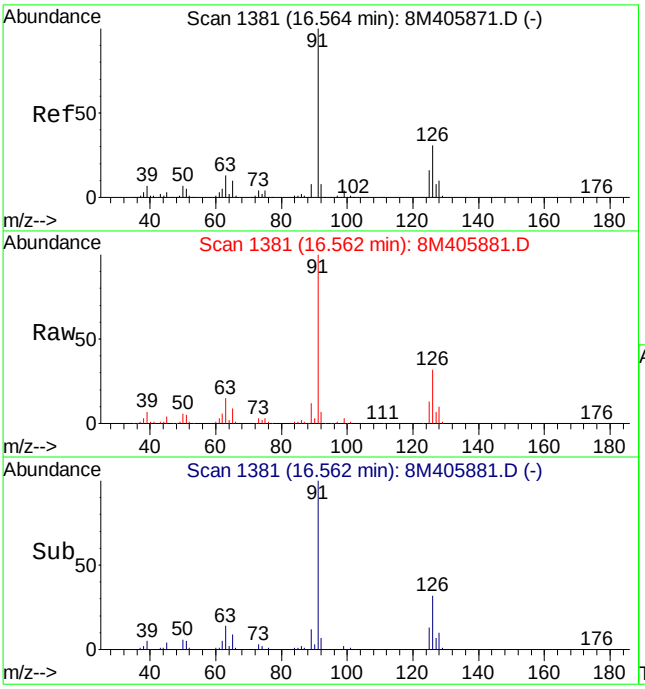


#86
2-Chlorotoluene
Concen: 20.45 ug/L
RT: 16.51 min Scan# 1376
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 91 Resp: 485840

Ion	Ratio	Lower	Upper
91	100		
126	32.2	19.4	45.4

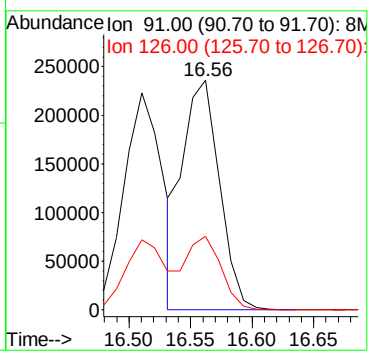


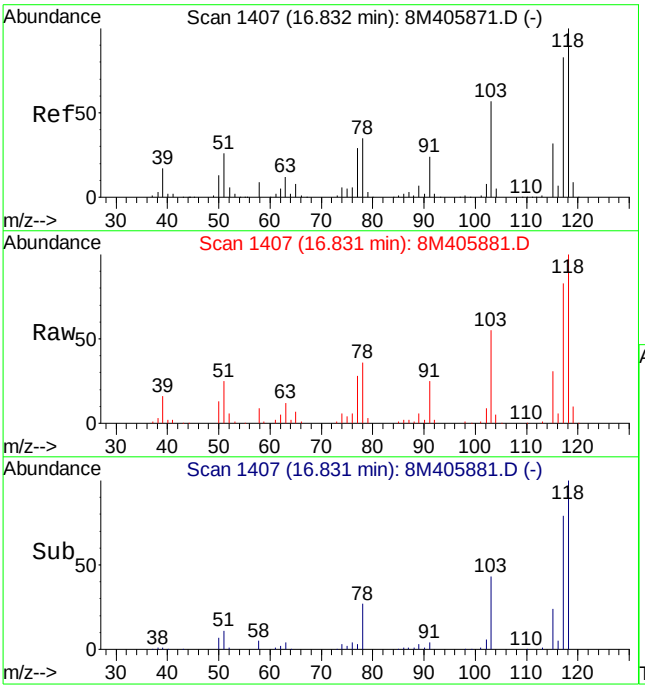


#87
4-Chlorotoluene
Concen: 20.47 ug/L
RT: 16.56 min Scan# 1381
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 91 Resp: 492561

Ion	Ratio	Lower	Upper
91	100		
126	32.2	19.7	45.9

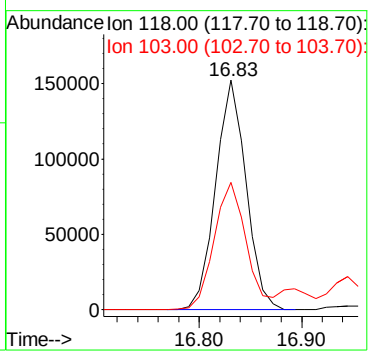


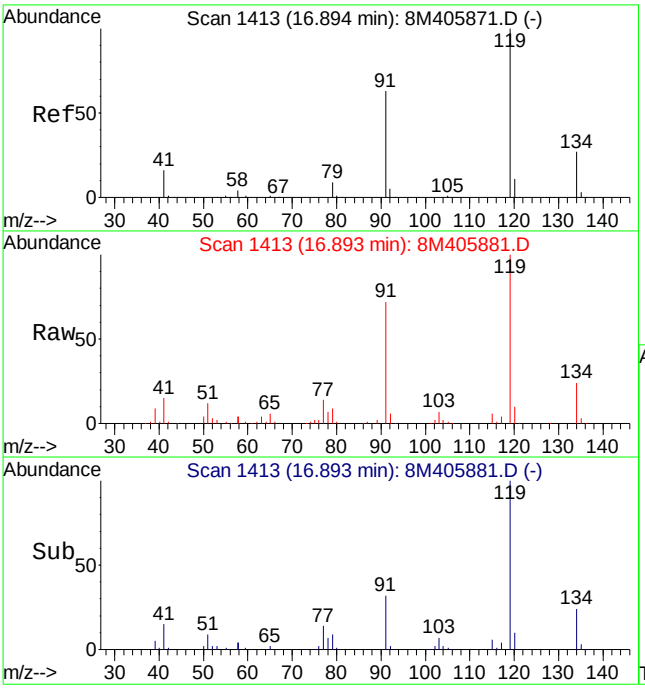


#88
a-Methylstyrene
Concen: 22.54 ug/L
RT: 16.83 min Scan# 1407
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:118 Resp: 313706

Ion	Ratio	Lower	Upper
118	100		
103	59.1	35.9	83.7

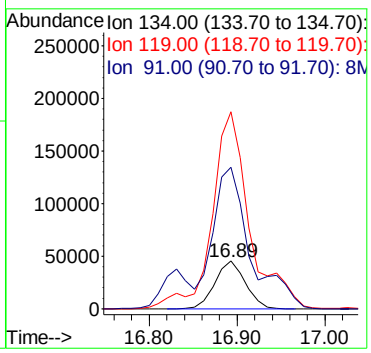


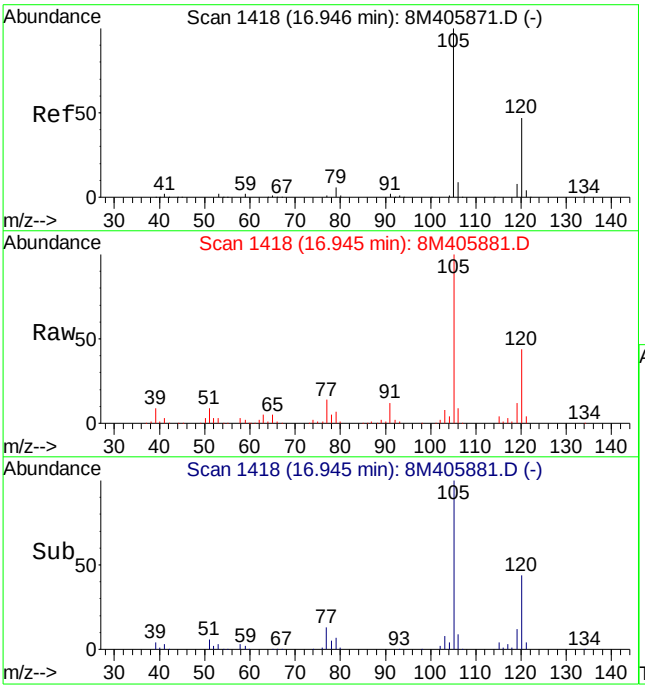


#89
tert-Butylbenzene
Concen: 20.36 ug/L
RT: 16.89 min Scan# 1413
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:134 Resp: 108852

Ion	Ratio	Lower	Upper
134	100		
119	511.8	293.9	685.7
91	365.4	214.9	501.3

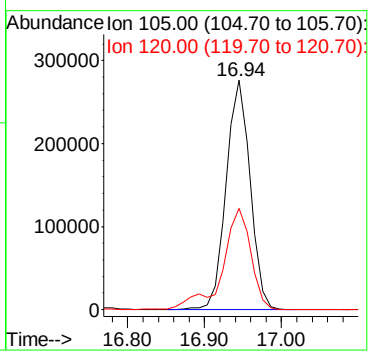


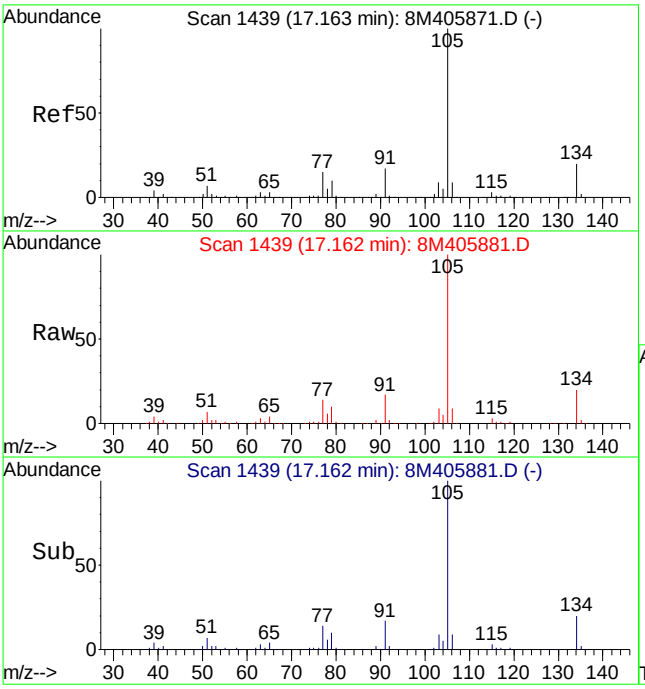


#90
1,2,4-Trimethylbenzene
Concen: 22.36 ug/L
RT: 16.94 min Scan# 1418
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:105 Resp: 597939

Ion	Ratio	Lower	Upper
105	100		
120	52.1	32.3	75.5

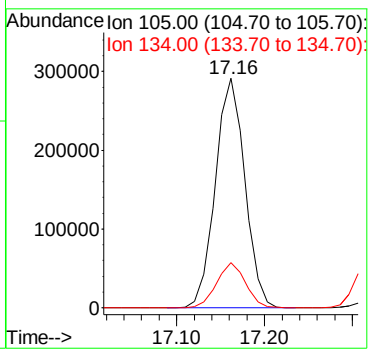


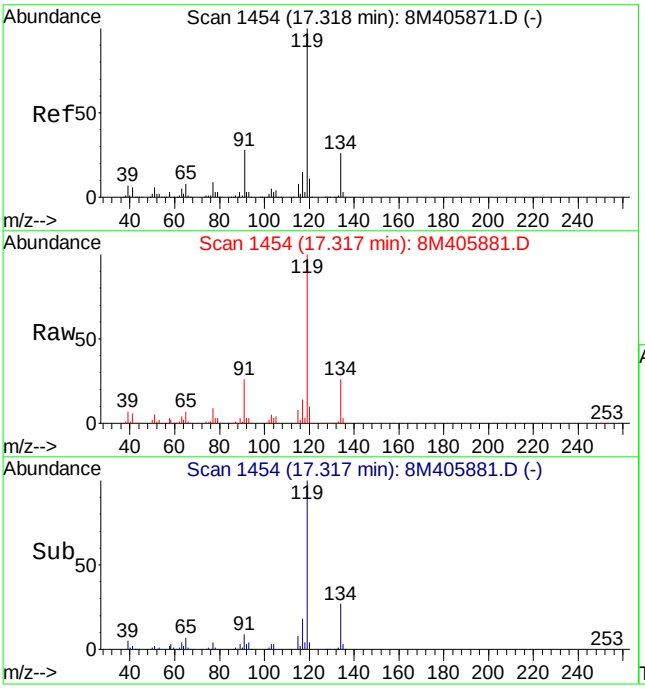


#91
sec-Butylbenzene
Concen: 21.74 ug/L
RT: 17.16 min Scan# 1439
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:105 Resp: 679684

Ion	Ratio	Lower	Upper
105	100		
134	19.2	11.8	27.4

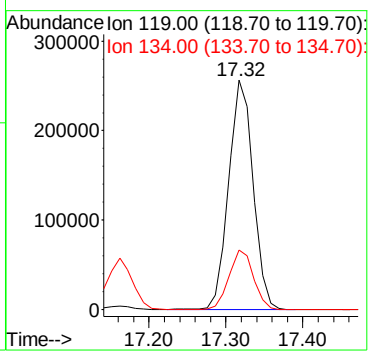


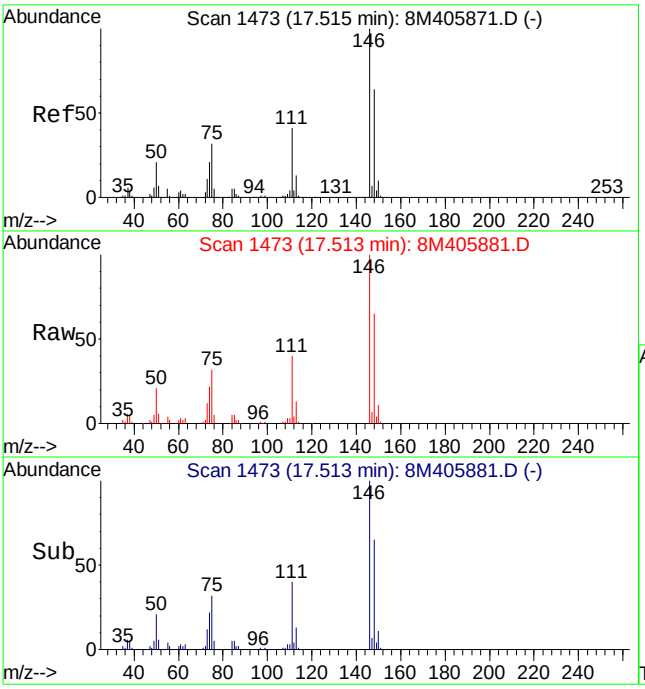


#92
p-Isopropyltoluene
Concen: 20.83 ug/L
RT: 17.32 min Scan# 1454
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:119 Resp: 566108

Ion	Ratio	Lower	Upper
119	100		
134	26.1	15.8	36.8

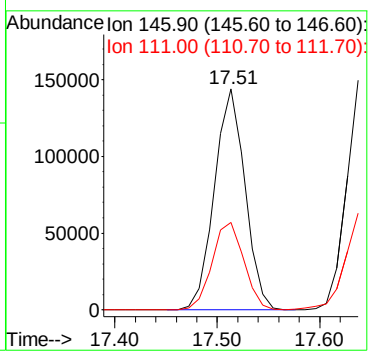


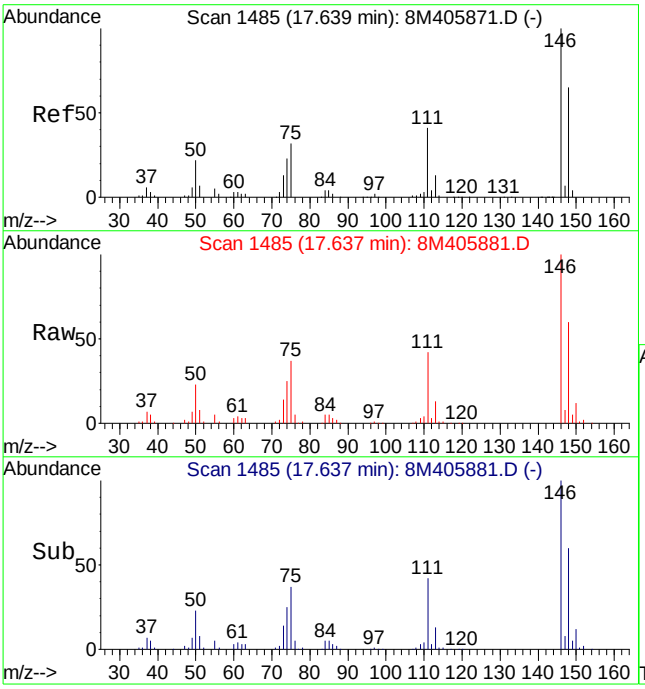


#93
1,3-Dichlorobenzene
Concen: 19.56 ug/L
RT: 17.51 min Scan# 1473
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:146 Resp: 298816

Ion	Ratio	Lower	Upper
146	100		
111	41.1	25.0	58.2

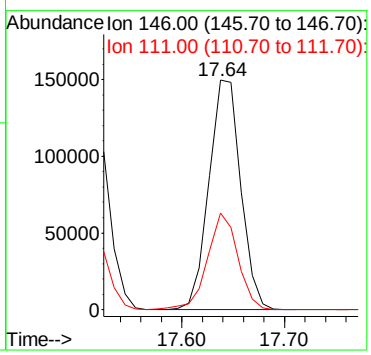


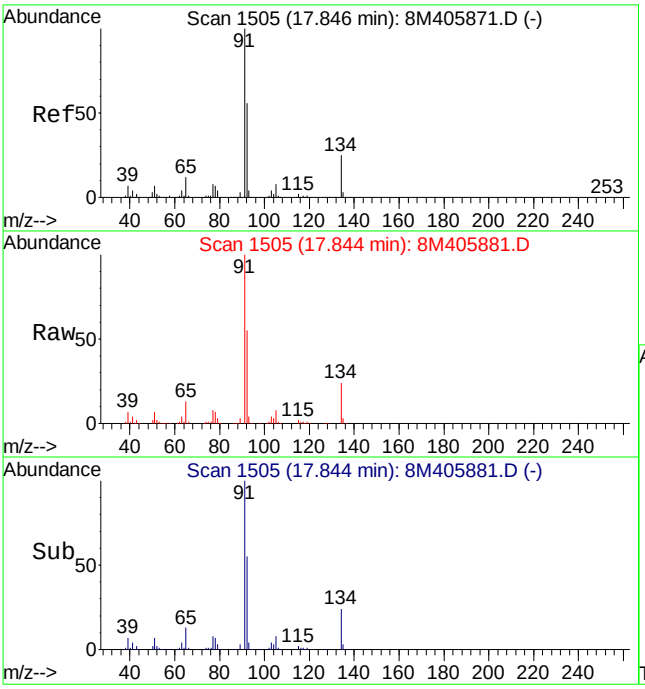


#94
1,4-Dichlorobenzene
Concen: 20.69 ug/L
RT: 17.64 min Scan# 1485
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:146 Resp: 322640

Ion	Ratio	Lower	Upper
146	100		
111	40.2	24.7	57.7

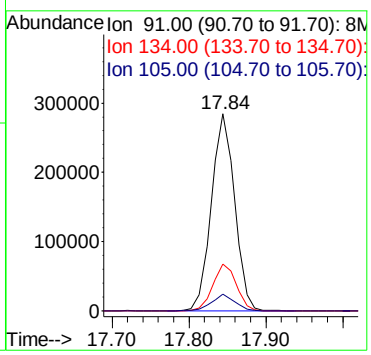


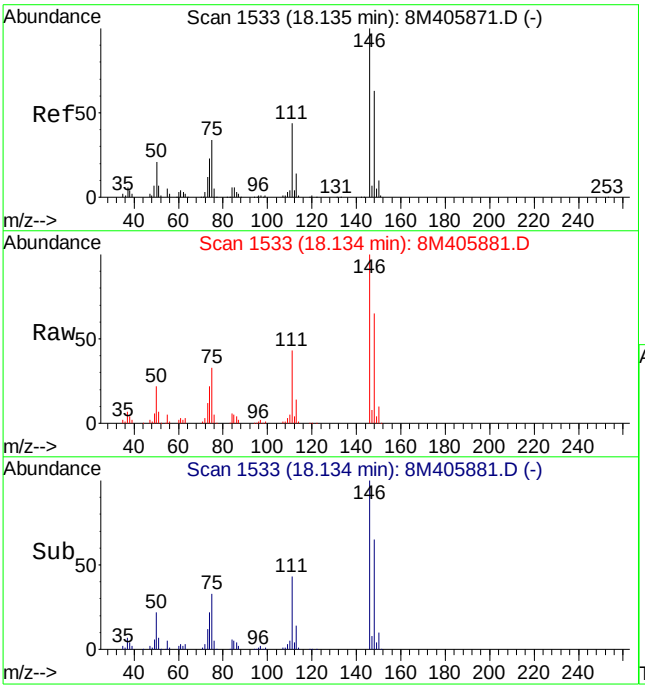


#95
n-Butylbenzene
Concen: 22.44 ug/L
RT: 17.84 min Scan# 1505
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 91 Resp: 597870

Ion	Ratio	Lower	Upper
91	100		
134	23.9	14.4	33.6
105	8.2	5.0	11.8

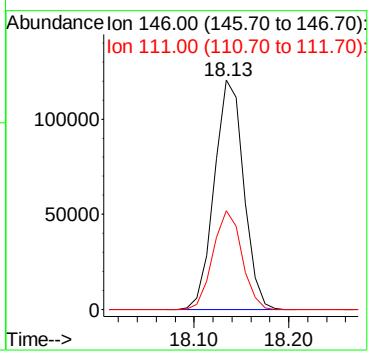


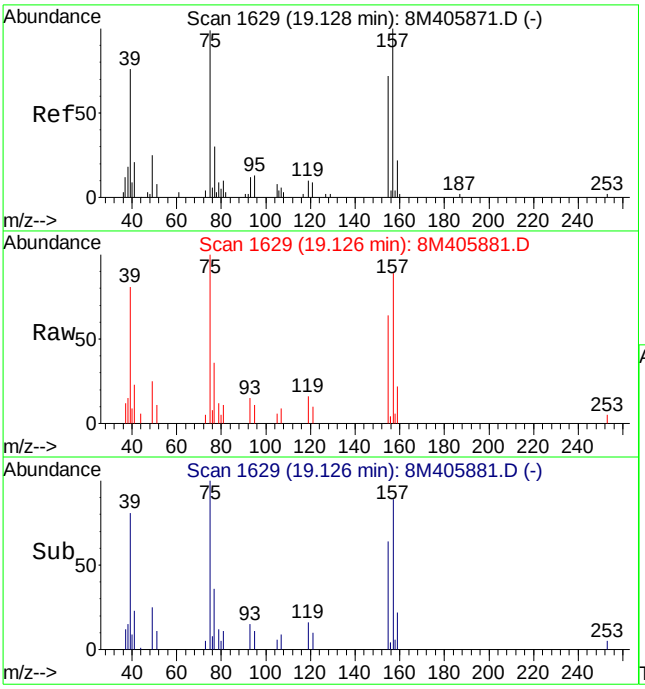


#96
1,2-Dichlorobenzene
Concen: 19.19 ug/L
RT: 18.13 min Scan# 1533
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:146 Resp: 261895

Ion	Ratio	Lower	Upper
146	100		
111	42.2	25.5	59.5

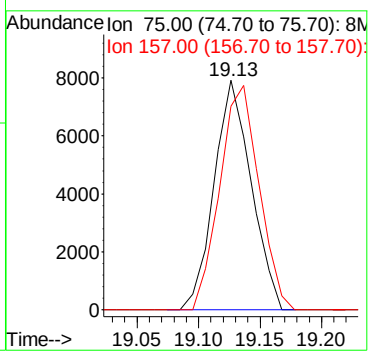


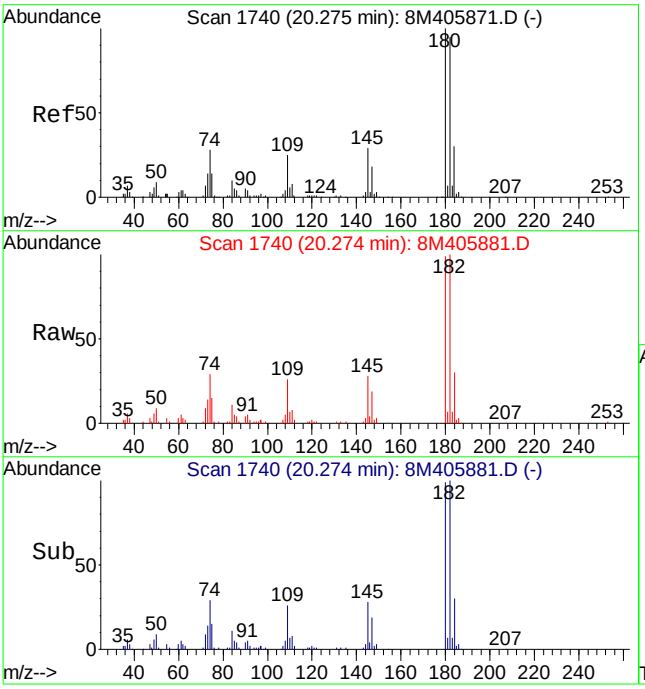


#97
1,2-Dibromo-3-Chloropropane
Concen: 20.06 ug/L
RT: 19.13 min Scan# 1629
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion: 75 Resp: 16567

Ion	Ratio	Lower	Upper
75	100		
157	103.4	61.0	142.4

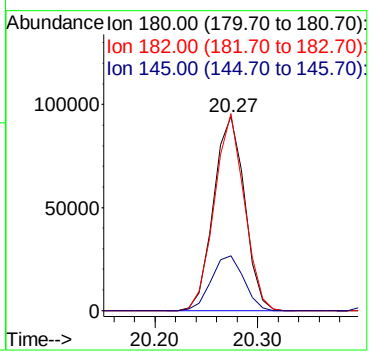


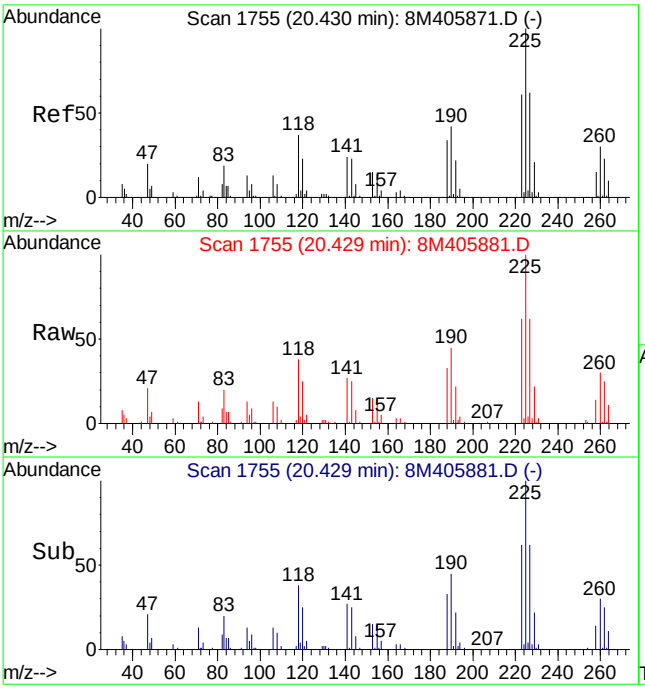


#98
1,2,4-Trichlorobenzene
Concen: 19.33 ug/L
RT: 20.27 min Scan# 1740
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:180 Resp: 197567

Ion	Ratio	Lower	Upper
180	100		
182	98.2	57.1	133.1
145	29.7	18.0	42.0

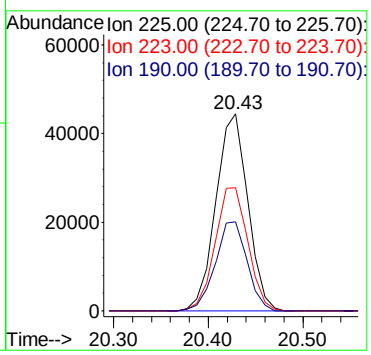


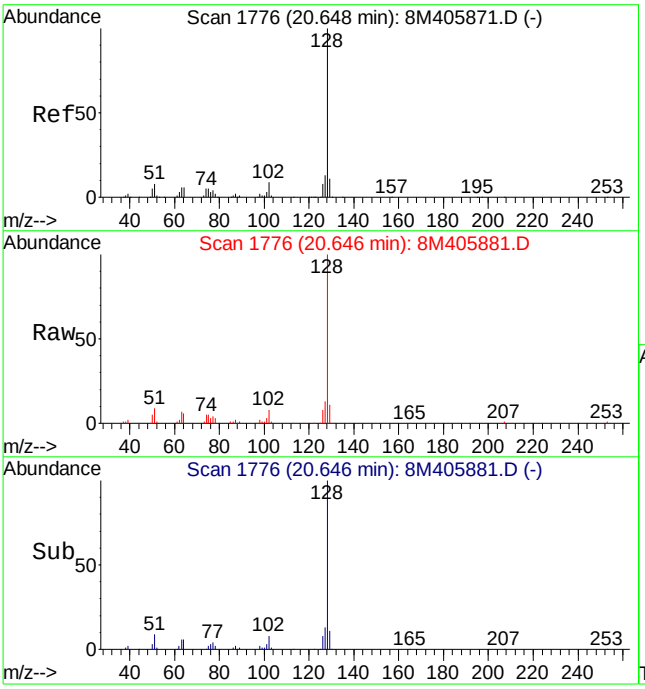


#99
Hexachlorobutadiene
Concen: 20.54 ug/L
RT: 20.43 min Scan# 1755
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:225 Resp: 105266

Ion	Ratio	Lower	Upper
225	100		
223	64.2	37.4	87.4
190	45.0	26.6	62.2

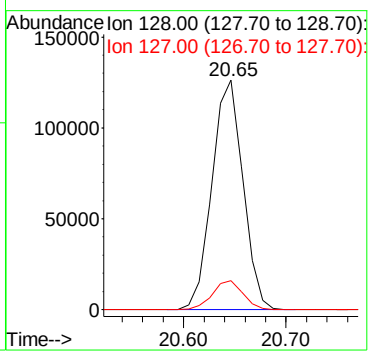


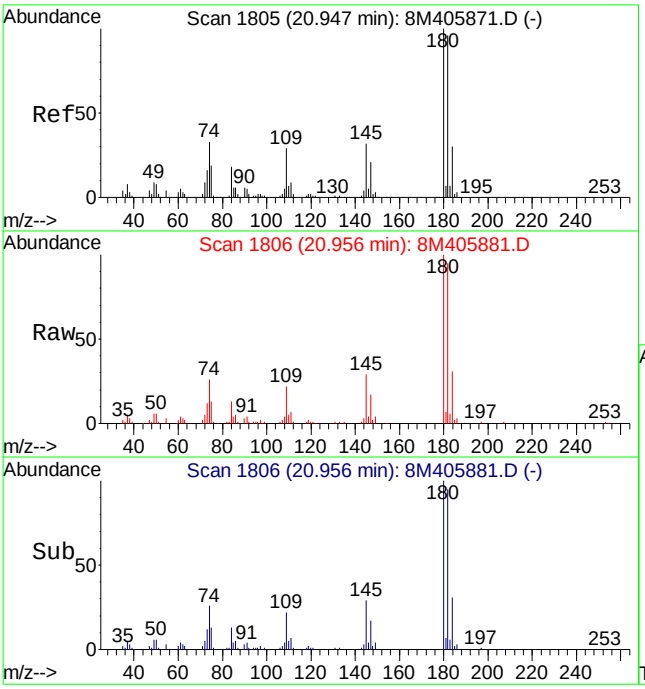


#100
Naphthalene
Concen: 19.67 ug/L
RT: 20.65 min Scan# 1776
Delta R.T. -0.00 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:128 Resp: 264982

Ion	Ratio	Lower	Upper
128	100		
127	12.5	8.0	18.6

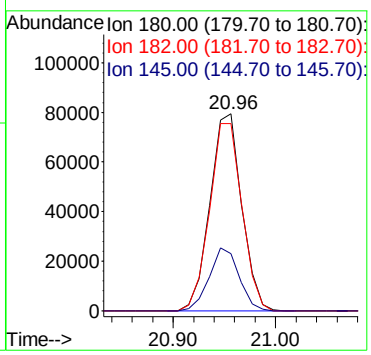




#101
1,2,3-Trichlorobenzene
Concen: 19.22 ug/L
RT: 20.96 min Scan# 1806
Delta R.T. 0.01 min
Lab File: 8M405881.D
Acq: 3 Jul 2015 16:08

Tgt Ion:180 Resp: 170838

Ion	Ratio	Lower	Upper
180	100		
182	97.0	58.3	135.9
145	29.9	18.2	42.4



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070615\8M405915.D Vial: 11
Acq On : 6 Jul 2015 18:24 Operator: ADC/ JDS
Sample : WG530076-02 20ug/L LCS STD 8260 Inst : HPMS8
Misc : 1,1 STD71359 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 07 10:08:55 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	593212	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	425526	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	239785	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	141091	25.6366	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 102.56%			
43) 1,2-Dichloroethane-d4	10.31	65	134996	25.0779	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 100.32%			
58) Toluene-d8	12.68	98	534155	25.3763	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.52%			
80) p-Bromofluorobenzene	16.08	95	205946	24.0401	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 96.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.16	85	141764	21.8052	ug/L	98
3) Chloromethane	3.62	50	236148	20.2697	ug/L	98
4) Vinyl Chloride	3.84	62	209671	23.3773	ug/L	99
5) 1,3-Butadiene	3.89	54	186165	26.1135	ug/L	94
6) Bromomethane	4.74	94	77360	19.3338	ug/L	99
7) Chloroethane	4.91	64	89272	23.1329	ug/L	96
8) Trichlorofluoromethane	5.38	101	189822	21.0296	ug/L	99
9) Diethyl ether	5.91	59	356985	101.0843	ug/L	99
10) Isoprene	5.95	67	164222	24.2623	ug/L	100
11) Acrolein	6.15	56	22461	91.2324	ug/L	94
12) 1,1,2-Trichloro-1,2,2-Trif	6.15	101	109989	22.1969	ug/L	100
13) Acetone	6.24	43	15673	21.5055	ug/L	96
14) 1,1-Dichloroethene	6.47	61	176020	20.3165	ug/L	99
15) Tert-Butyl Alcohol	6.58	59	37025	207.0775	ug/L	98
16) Dimethyl Sulfide	6.74	62	132149	27.9908	ug/L	99
17) Iodomethane	7.00	142	81440	19.5620	ug/L	99
18) Methyl acetate	7.01	43	44776	15.4723	ug/L	97
19) Methylene Chloride	7.26	84	115431	21.1263	ug/L	95
20) Carbon Disulfide	7.30	76	341831	21.9438	ug/L	99
21) Acrylonitrile	7.44	53	23317	21.7745	ug/L	97
22) Methyl Tert Butyl Ether	7.46	73	213493	21.3287	ug/L	99
23) trans-1,2-Dichloroethene	7.71	61	182856	21.8294	ug/L	98
24) n-Hexane	7.79	57	165456	19.9663	ug/L	98
25) Diisopropyl ether	8.14	45	2208708	108.4901	ug/L	99
26) Vinyl Acetate	8.30	43	190554	42.5647	ug/L	98
27) 1,1-Dichloroethane	8.33	63	221615	20.3839	ug/L	97
28) Ethyl-Tert-Butyl ether	8.71	59	1614381	102.2094	ug/L	99
29) 2-Butanone	8.89	43	26664	21.6615	ug/L	95
30) Propionitrile	8.99	54	37056	101.5635	ug/L	97
31) 2,2-Dichloropropane	9.11	77	193153	22.2512	ug/L	99
32) cis-1,2-Dichloroethene	9.17	96	125710	21.7252	ug/L	99
33) Chloroform	9.39	83	216389	21.8796	ug/L	100
34) 1-Bromopropane	9.51	122	26083	27.3736	ug/L	96
35) Bromochloromethane	9.61	130	63169	22.1021	ug/L	98
36) Tetrahydrofuran	9.63	42	81756	99.4258	ug/L	99
38) 1,1,1-Trichloroethane	9.91	97	207175	22.0698	ug/L	98
39) Cyclohexane	9.94	56	214396	19.4990	ug/L	98
40) 1,1-Dichloropropene	10.11	75	172061	22.8695	ug/L	99
41) Tert-Amyl-Methyl ether	10.21	73	1255127	106.8774	ug/L	99
42) Carbon Tetrachloride	10.25	117	185346	21.7995	ug/L	99

(#) = qualifier out of range (m) = manual integration
8M405915.D 8260WT.M Tue Jul 07 10:08:56 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070615\8M405915.D Vial: 11
Acq On : 6 Jul 2015 18:24 Operator: ADC/ JDS
Sample : WG530076-02 20ug/L LCS STD 8260 Inst : HPMS8
Misc : 1,1 STD71359 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 07 10:08:55 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

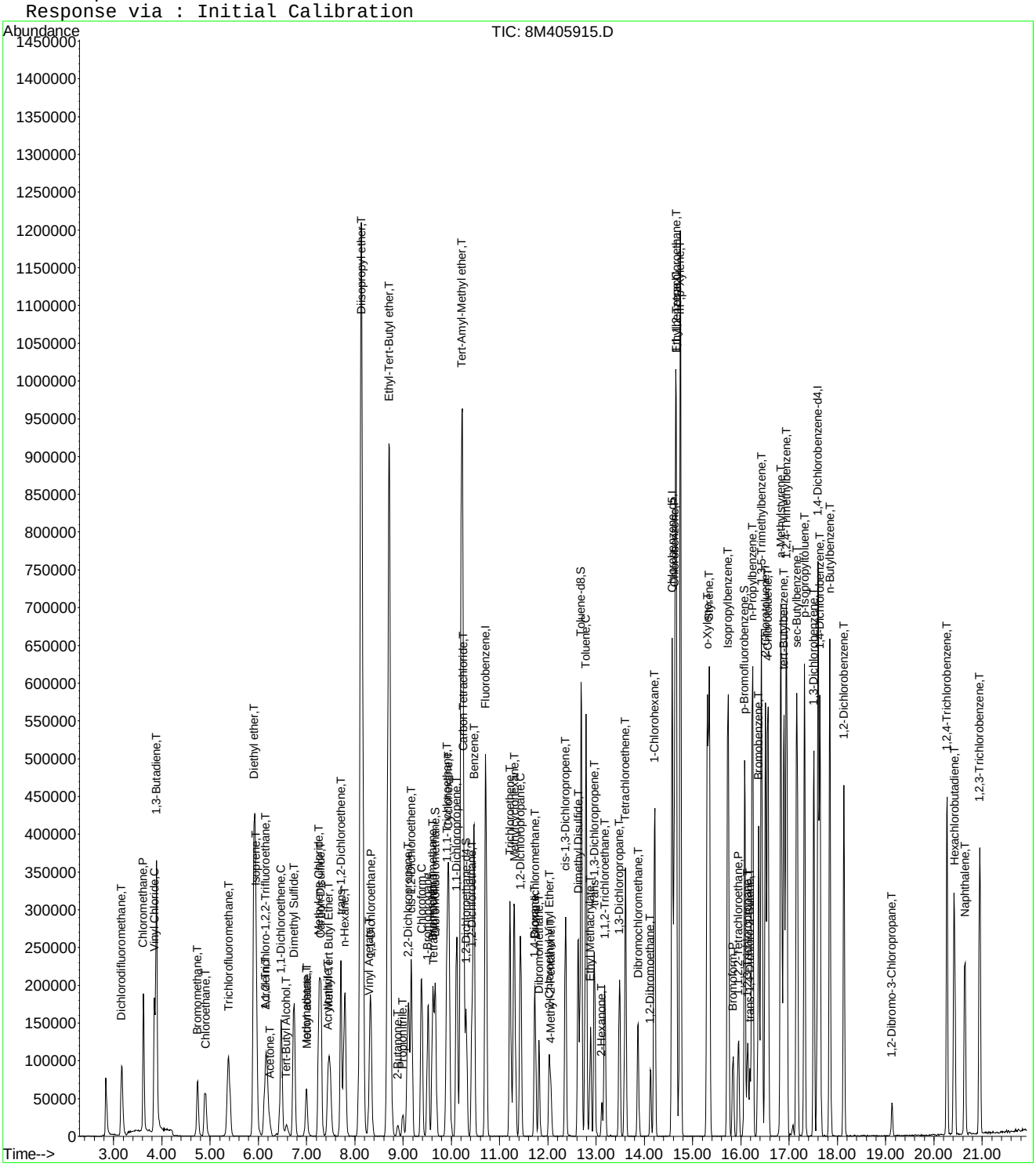
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	143492	21.3384	ug/L		99
46)	Benzene	10.47	78	471350	21.8516	ug/L		100
47)	Trichloroethene	11.22	130	123988	23.1045	ug/L		96
48)	Methylcyclohexane	11.31	83	190793	21.8102	ug/L		99
49)	1,2-Dichloropropane	11.43	63	130797	21.8587	ug/L		99
50)	Bromodichloromethane	11.73	83	157712	21.3461	ug/L		99
51)	1,4-Dioxane	11.72	88	2438	132.0685	ug/L		84
52)	Dibromomethane	11.82	93	58104	21.0087	ug/L		96
53)	2-Chloroethyl Vinyl Ether	12.03	63	53306	20.3838	ug/L		98
54)	4-Methyl-2-Pentanone	12.06	58	21941	19.7181	ug/L		98
55)	cis-1,3-Dichloropropene	12.36	75	188637	23.0216	ug/L		99
56)	Dimethyl Disulfide	12.63	79	98186	21.5230	ug/L		92
59)	Toluene	12.79	91	518537	22.1288	ug/L		100
60)	Ethyl Methacrylate	12.88	69	97869	22.6447	ug/L		100
62)	trans-1,3-Dichloropropene	12.96	75	151496	20.9588	ug/L		97
63)	1,1,2-Trichloroethane	13.18	97	75615	20.8781	ug/L		95
64)	2-Hexanone	13.12	58	20790	19.8685	ug/L	#	99
65)	1,3-Dichloropropane	13.48	76	137846	21.7228	ug/L		99
66)	Tetrachloroethene	13.60	164	103606	21.6419	ug/L		98
67)	Dibromochloromethane	13.87	129	102180	19.4511	ug/L		98
68)	1,2-Dibromoethane	14.12	107	73256	21.0166	ug/L		98
69)	1-Chlorohexane	14.21	91	178793	21.8588	ug/L		99
70)	Chlorobenzene	14.63	112	310079	19.7353	ug/L		99
71)	1,1,1,2-Tetrachloroethane	14.66	131	119783	20.9641	ug/L		97
72)	Ethylbenzene	14.66	106	181191	20.4985	ug/L		95
73)	m-,p-Xylene	14.74	106	432485	41.5446	ug/L		97
74)	o-Xylene	15.31	106	204290	20.2313	ug/L		100
75)	Styrene	15.34	104	357777	22.0446	ug/L		99
76)	Bromoform	15.84	173	62415	19.8283	ug/L		98
77)	Isopropylbenzene	15.73	105	533559	21.0637	ug/L		100
79)	1,1,2,2-Tetrachloroethane	15.95	83	83816	20.7137	ug/L		97
81)	1,2,3-Trichloropropane	16.14	110	22944	19.7477	ug/L		54
82)	trans-1,4-Dichloro-2-Buten	16.19	53	28923	20.0313	ug/L	#	69
83)	n-Propylbenzene	16.24	91	679414	20.8472	ug/L		100
84)	Bromobenzene	16.37	156	136768	20.5674	ug/L		98
85)	1,3,5-Trimethylbenzene	16.43	105	496637	21.8502	ug/L		99
86)	2-Chlorotoluene	16.51	91	417040	20.2643	ug/L		99
87)	4-Chlorotoluene	16.56	91	411489	19.7400	ug/L		100
88)	a-Methylstyrene	16.83	118	273132	22.6508	ug/L		99
89)	tert-Butylbenzene	16.89	134	94287	20.3552	ug/L		98
90)	1,2,4-Trimethylbenzene	16.94	105	507449	21.9024	ug/L		98
91)	sec-Butylbenzene	17.16	105	569290	21.0188	ug/L		100
92)	p-Isopropyltoluene	17.32	119	482165	20.4852	ug/L		99
93)	1,3-Dichlorobenzene	17.51	146	261674	19.7690	ug/L		97
94)	1,4-Dichlorobenzene	17.64	146	278585	20.6282	ug/L		98
95)	n-Butylbenzene	17.84	91	495188	21.4543	ug/L		100
96)	1,2-Dichlorobenzene	18.13	146	231402	19.5783	ug/L		99
97)	1,2-Dibromo-3-Chloropropan	19.13	75	14478	20.2346	ug/L		92
98)	1,2,4-Trichlorobenzene	20.27	180	177545	20.0553	ug/L		98
99)	Hexachlorobutadiene	20.43	225	84981	19.1438	ug/L		95
100)	Naphthalene	20.65	128	230939	19.7883	ug/L		99
101)	1,2,3-Trichlorobenzene	20.95	180	146190	18.9904	ug/L		99

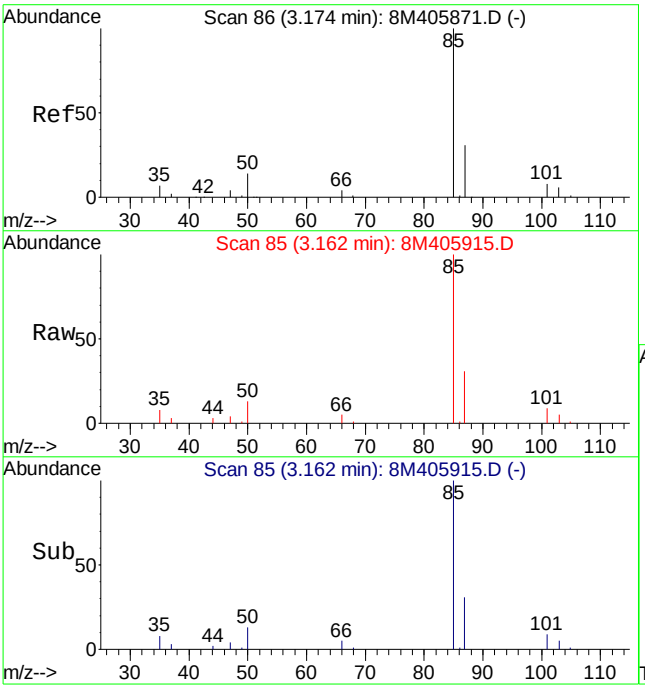
(#) = qualifier out of range (m) = manual integration
8M405915.D 8260WT.M Tue Jul 07 10:08:56 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070615\8M405915.D Vial: 11
Acq On : 6 Jul 2015 18:24 Operator: ADC/ JDS
Sample : WG530076-02 20ug/L LCS STD 8260 Inst : HPMS8
Misc : 1,1 STD71359 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 7 10:08 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

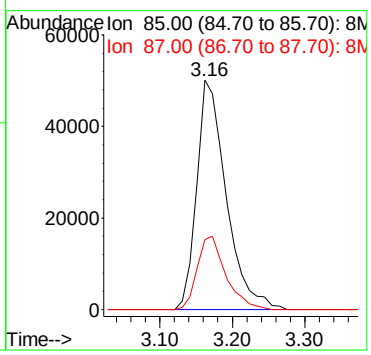


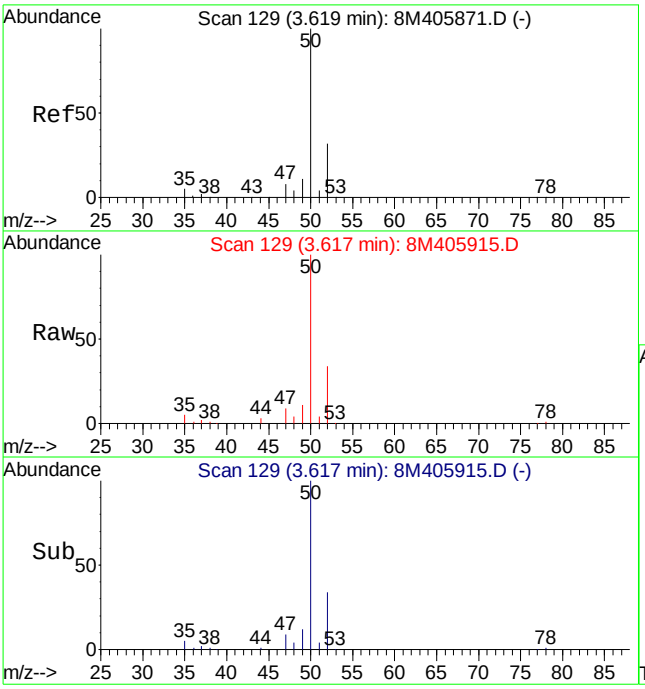


#2
Dichlorodifluoromethane
Concen: 21.81 ug/L
RT: 3.16 min Scan# 85
Delta R.T. -0.01 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 85 Resp: 141764

Ion	Ratio	Lower	Upper
85	100		
87	31.0	19.2	44.8

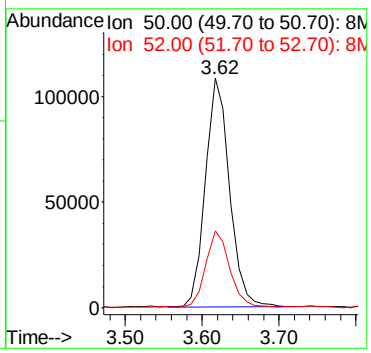


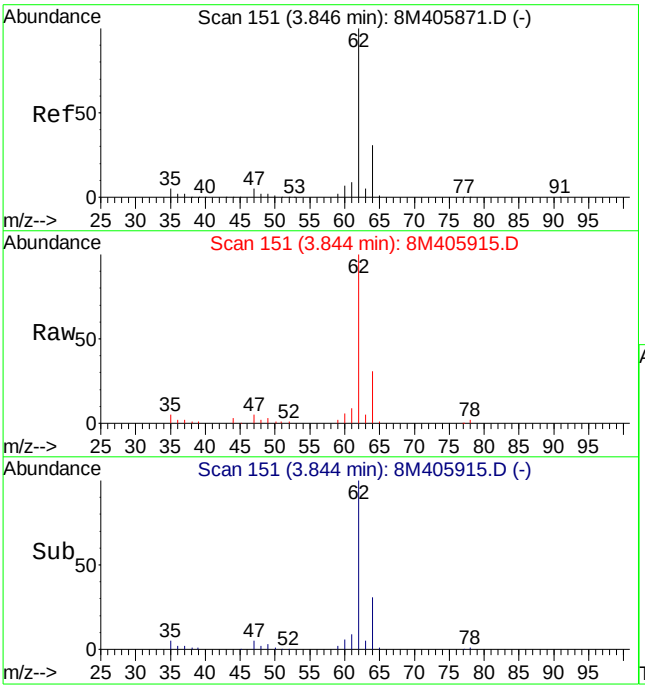


#3
Chloromethane
Concen: 20.27 ug/L
RT: 3.62 min Scan# 129
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 50 Resp: 236148

Ion	Ratio	Lower	Upper
50	100		
52	33.2	19.2	44.8

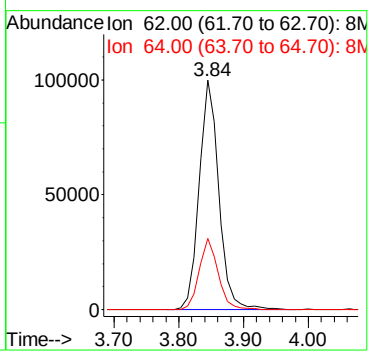


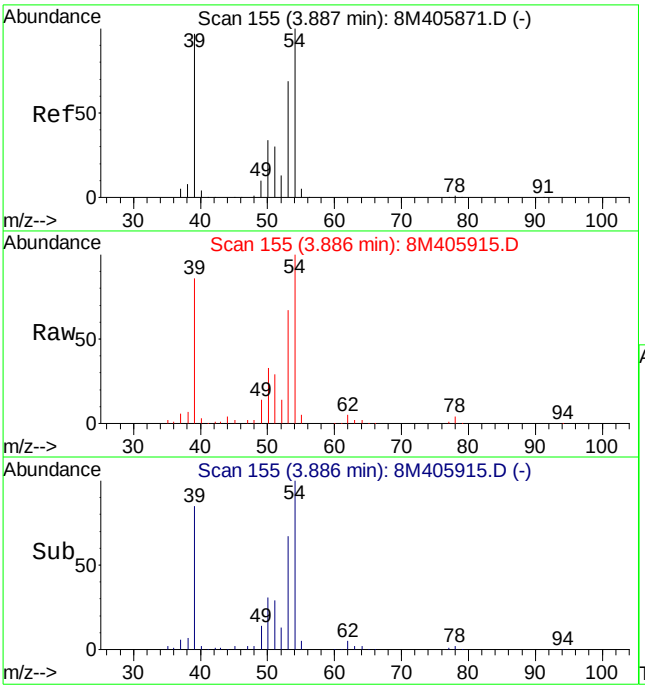


#4
Vinyl Chloride
Concen: 23.38 ug/L
RT: 3.84 min Scan# 151
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 62 Resp: 209671

Ion	Ratio	Lower	Upper
62	100		
64	29.9	18.2	42.6

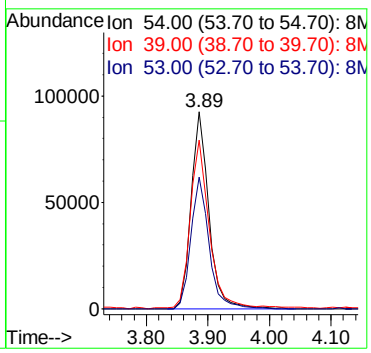


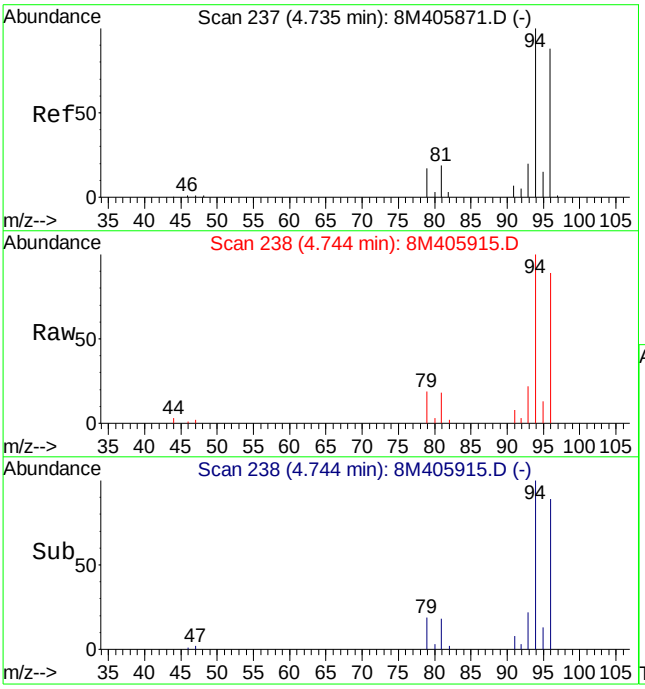


#5
1,3-Butadiene
Concen: 26.11 ug/L
RT: 3.89 min Scan# 155
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 54 Resp: 186165

Ion	Ratio	Lower	Upper
54	100		
39	93.5	60.8	142.0
53	68.1	42.4	99.0

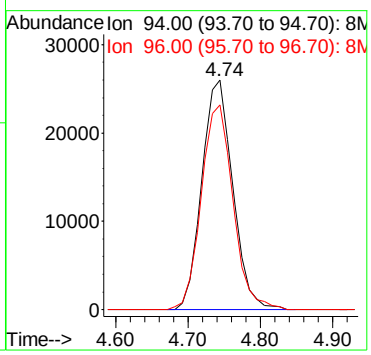


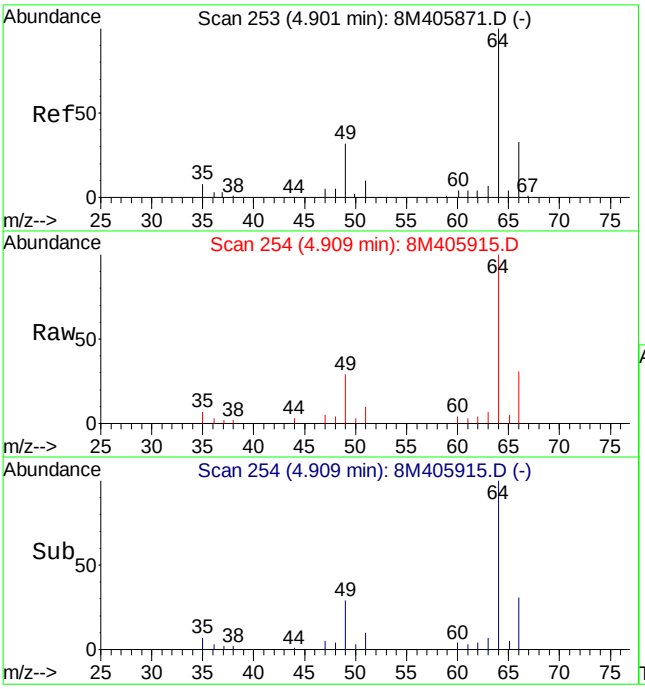


#6
Bromomethane
Concen: 19.33 ug/L
RT: 4.74 min Scan# 238
Delta R.T. 0.01 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 94 Resp: 77360

Ion	Ratio	Lower	Upper
94	100		
96	91.4	55.6	129.8

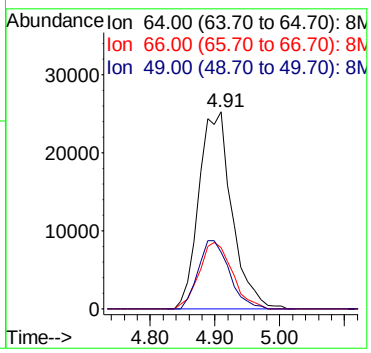


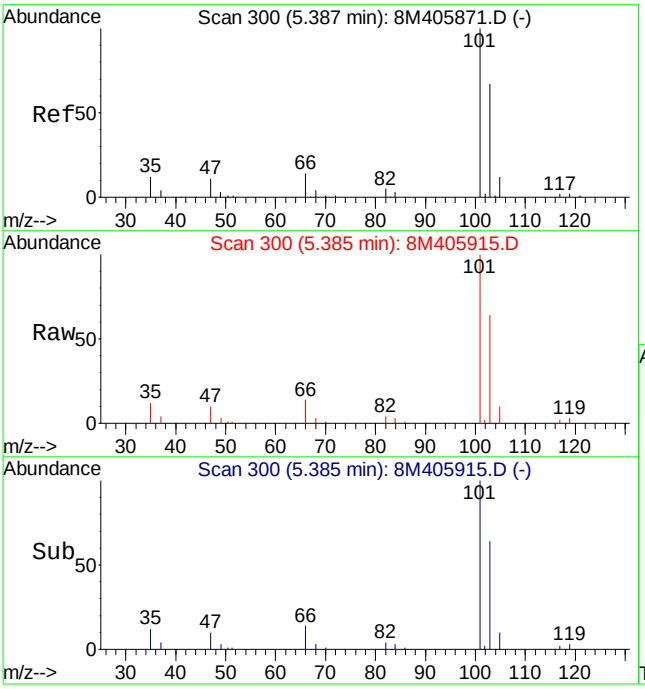


#7
Chloroethane
Concen: 23.13 ug/L
RT: 4.91 min Scan# 254
Delta R.T. 0.01 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 64 Resp: 89272

Ion	Ratio	Lower	Upper
64	100		
66	34.0	19.0	44.4
49	32.7	18.5	43.1

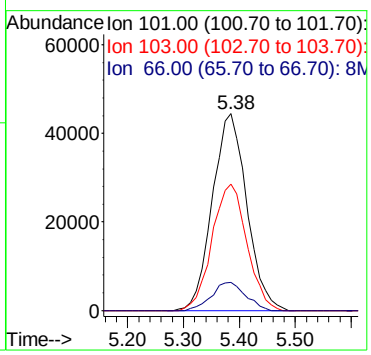


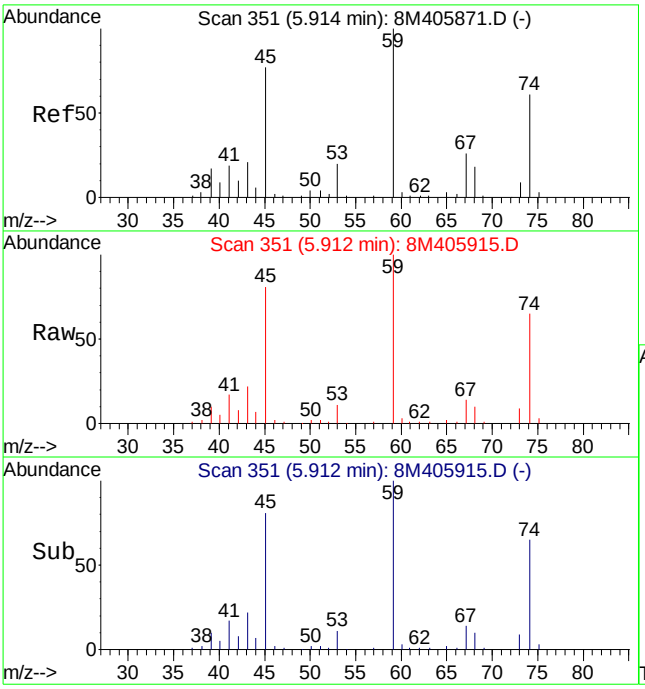


#8
Trichlorofluoromethane
Concen: 21.03 ug/L
RT: 5.38 min Scan# 300
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:101 Resp: 189822

Ion	Ratio	Lower	Upper
101	100		
103	64.8	39.7	92.7
66	14.2	8.5	19.9

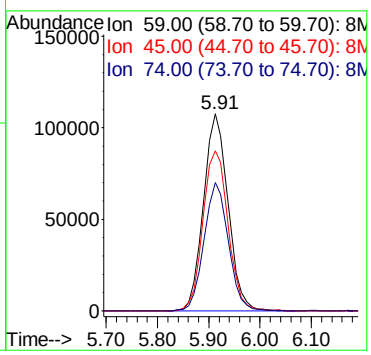


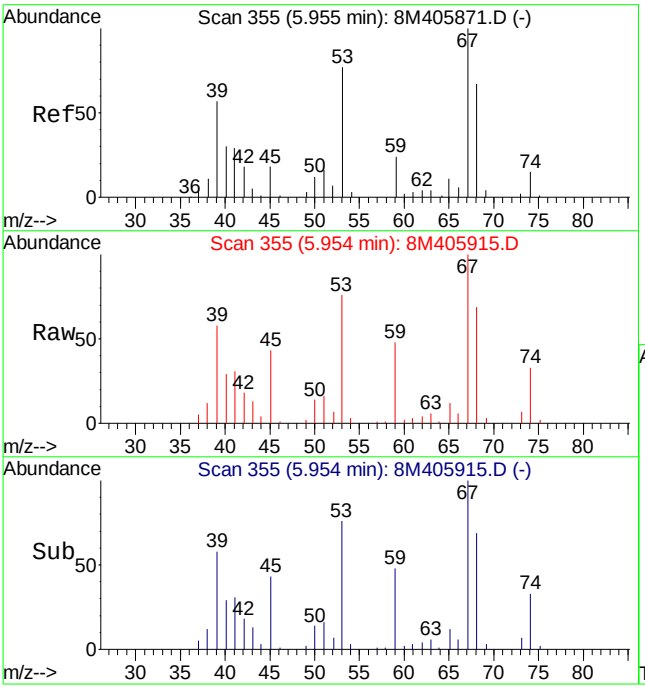


#9
Diethyl ether
Concen: 101.08 ug/L
RT: 5.91 min Scan# 351
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 59 Resp: 356985

Ion	Ratio	Lower	Upper
59	100		
45	83.2	49.3	115.1
74	64.4	38.6	90.2

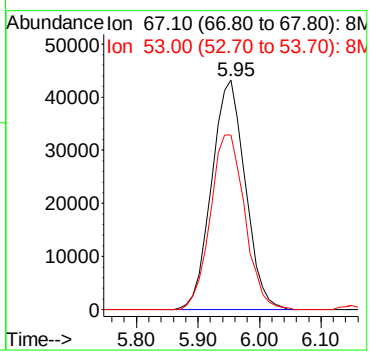


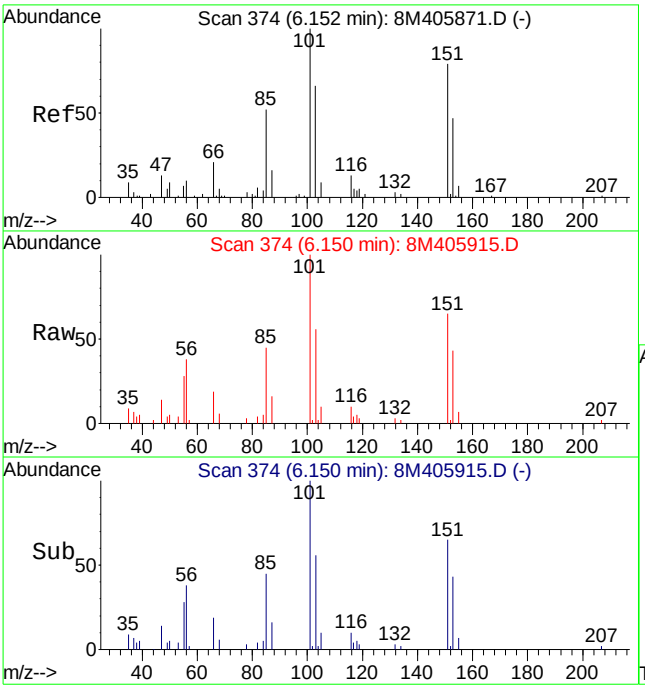


#10
Isoprene
Concen: 24.26 ug/L
RT: 5.95 min Scan# 355
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 67 Resp: 164222

Ion	Ratio	Lower	Upper
67	100		
53	77.9	46.9	109.5

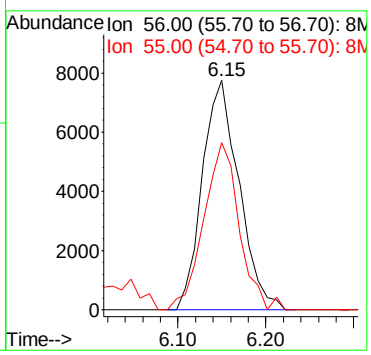


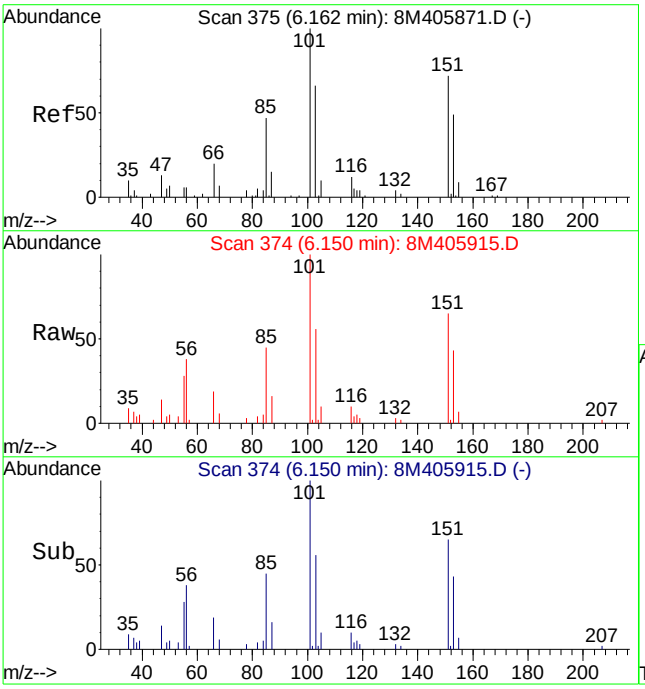


#11
Acrolein
Concen: 91.23 ug/L
RT: 6.15 min Scan# 374
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 56 Resp: 22461

Ion	Ratio	Lower	Upper
56	100		
55	70.3	45.2	105.6

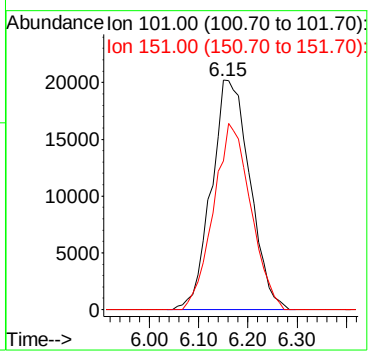


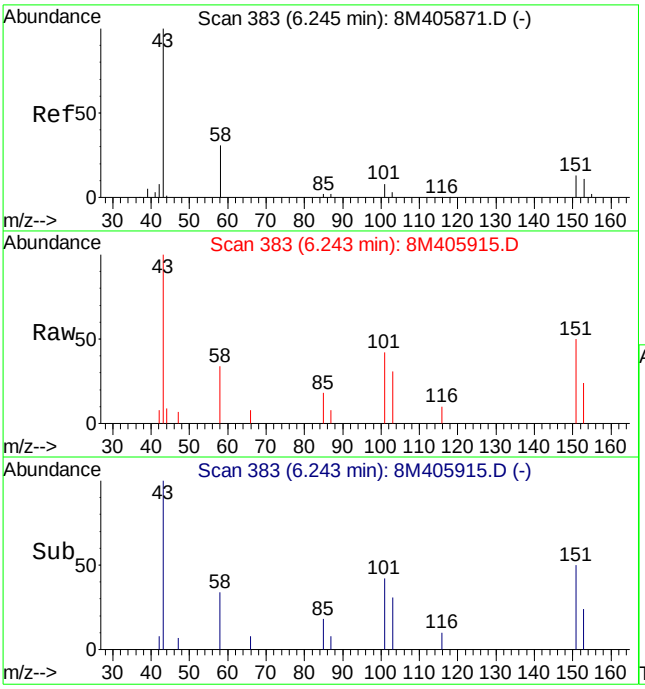


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 22.20 ug/L
RT: 6.15 min Scan# 374
Delta R.T. -0.01 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:101 Resp: 109989

Ion	Ratio	Lower	Upper
101	100		
151	78.5	38.1	118.1

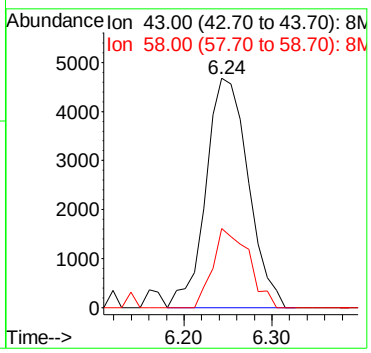


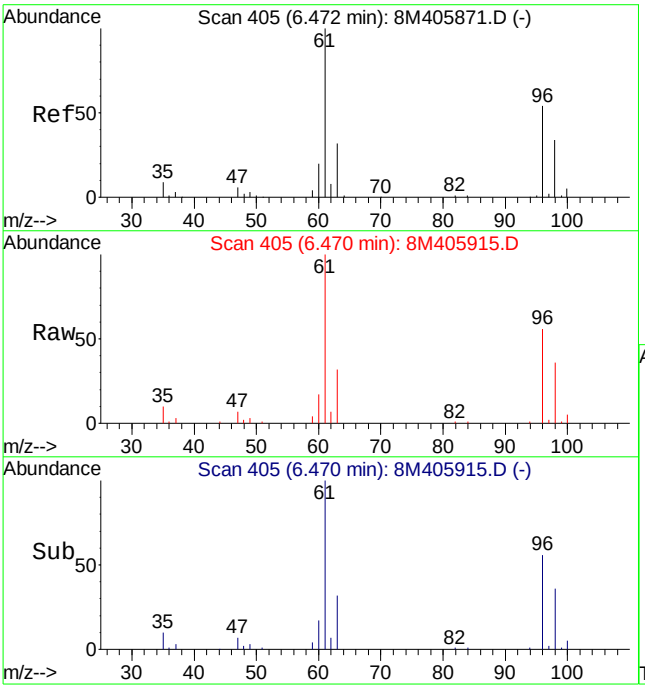


#13
Acetone
Concen: 21.51 ug/L
RT: 6.24 min Scan# 383
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 43 Resp: 15673

Ion	Ratio	Lower	Upper
43	100		
58	29.5	16.4	38.2

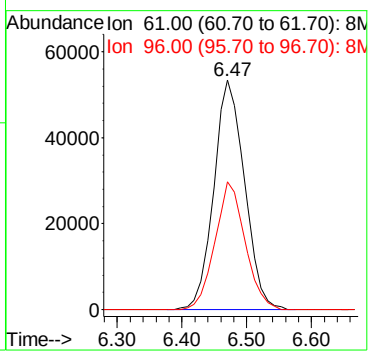


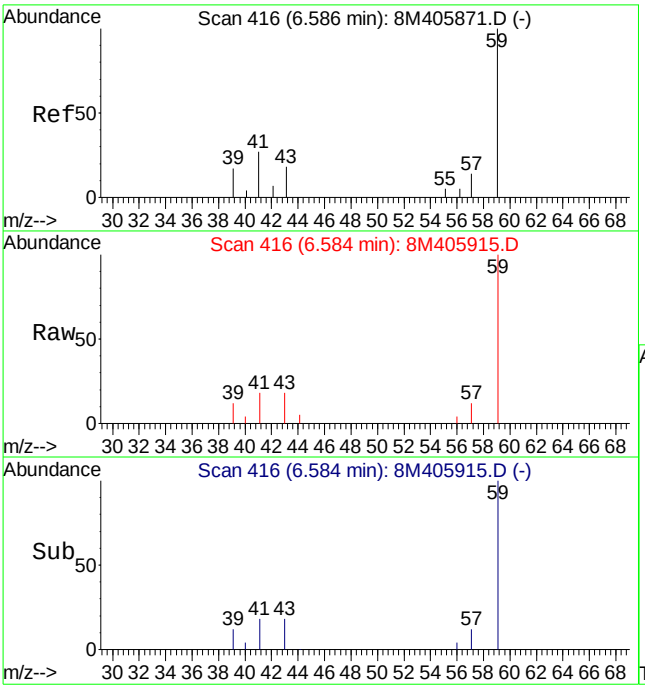


#14
1,1-Dichloroethene
Concen: 20.32 ug/L
RT: 6.47 min Scan# 405
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 61 Resp: 176020

Ion	Ratio	Lower	Upper
61	100		
96	54.7	32.3	75.3

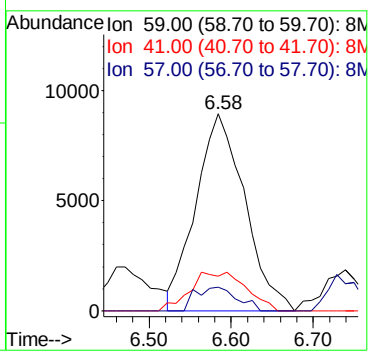


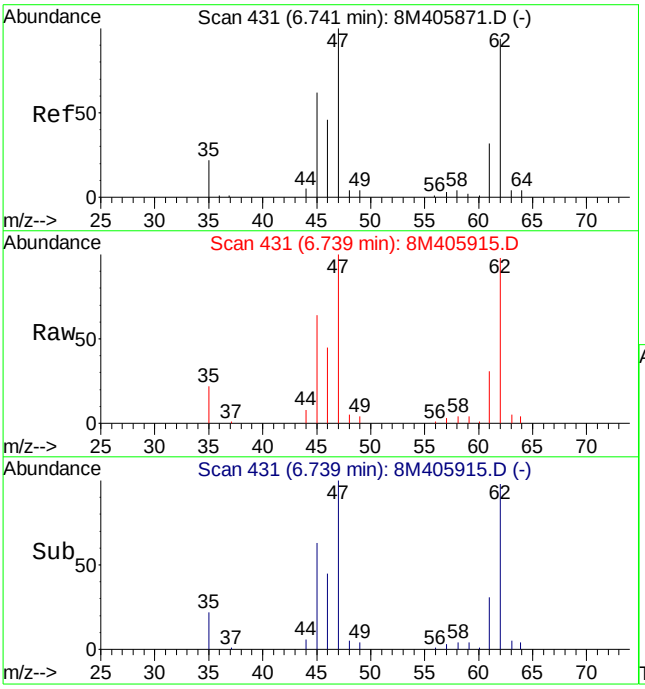


#15
Tert-Butyl Alcohol
Concen: 207.08 ug/L
RT: 6.58 min Scan# 416
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 59 Resp: 37025

Ion	Ratio	Lower	Upper
59	100		
41	22.4	14.2	33.0
57	10.1	6.5	15.3

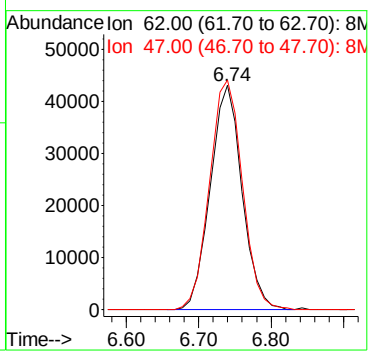


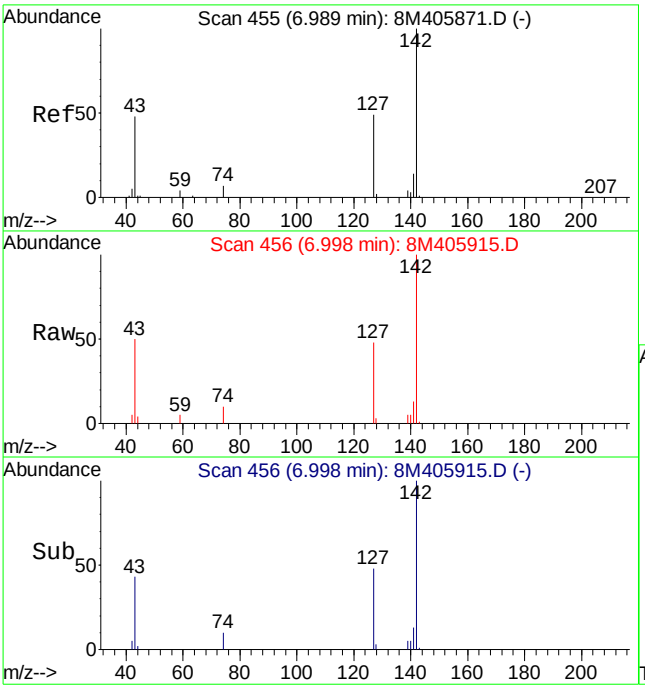


#16
Dimethyl Sulfide
Concen: 27.99 ug/L
RT: 6.74 min Scan# 431
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 62 Resp: 132149

Ion	Ratio	Lower	Upper
62	100		
47	105.9	64.3	149.9

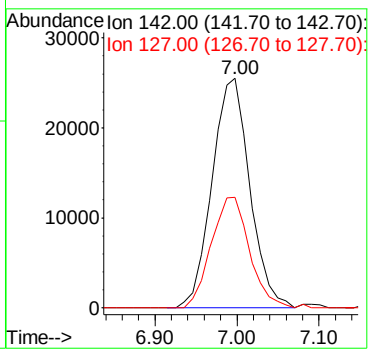


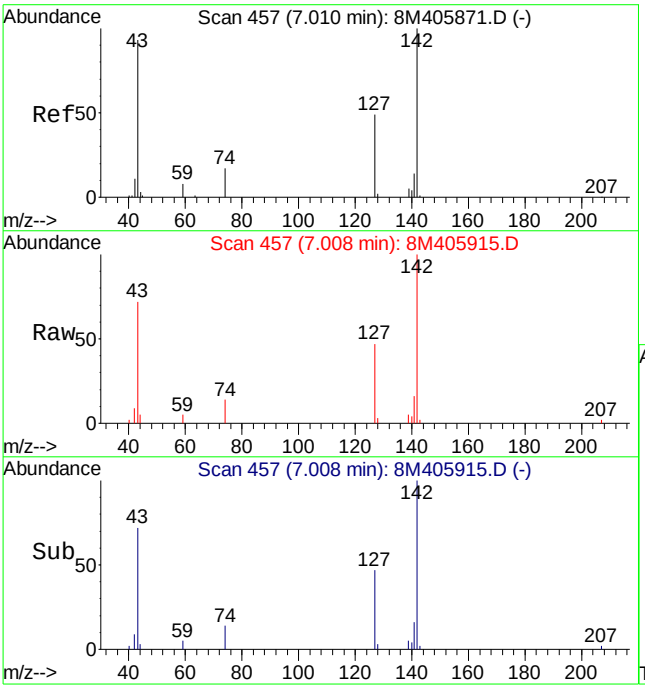


#17
Iodomethane
Concen: 19.56 ug/L
RT: 7.00 min Scan# 456
Delta R.T. 0.01 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:142 Resp: 81440

Ion	Ratio	Lower	Upper
142	100		
127	48.9	29.6	69.0

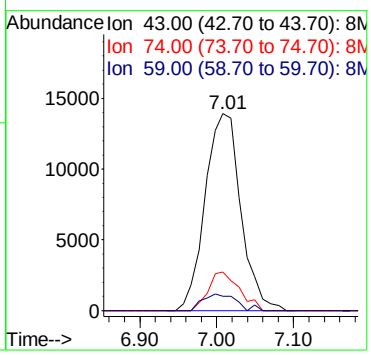


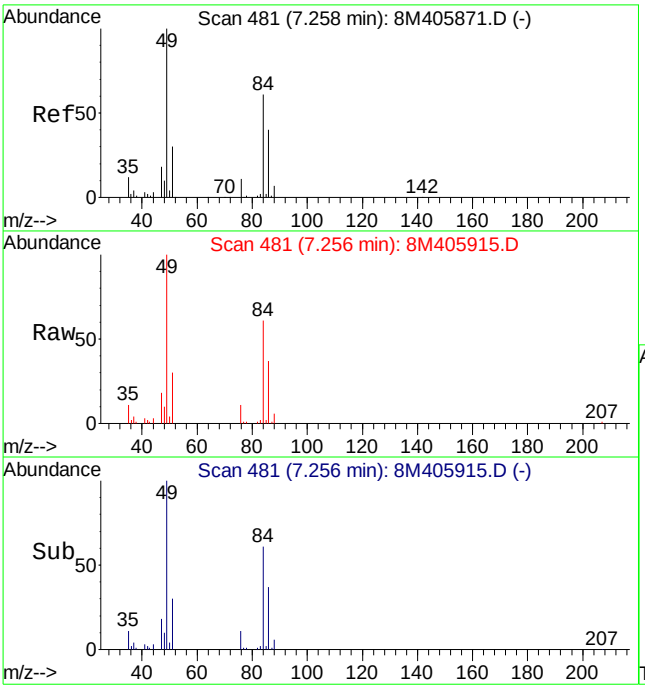


#18
Methyl acetate
Concen: 15.47 ug/L
RT: 7.01 min Scan# 457
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 43 Resp: 44776

Ion	Ratio	Lower	Upper
43	100		
74	17.0	11.2	26.2
59	8.0	4.7	11.1

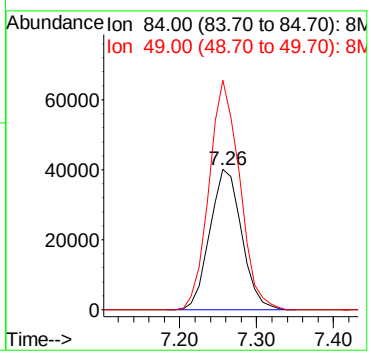


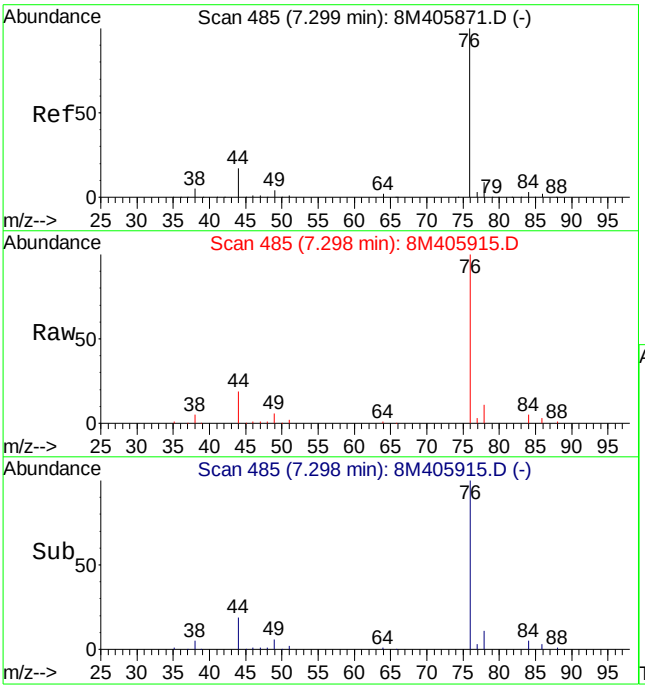


#19
Methylene Chloride
Concen: 21.13 ug/L
RT: 7.26 min Scan# 481
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 84 Resp: 115431

Ion	Ratio	Lower	Upper
84	100		
49	157.5	98.6	230.2

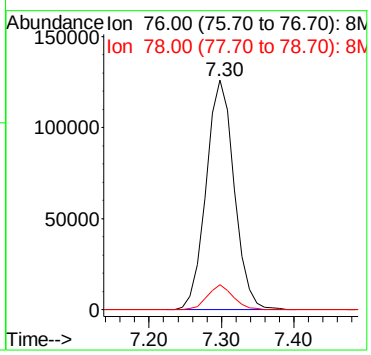


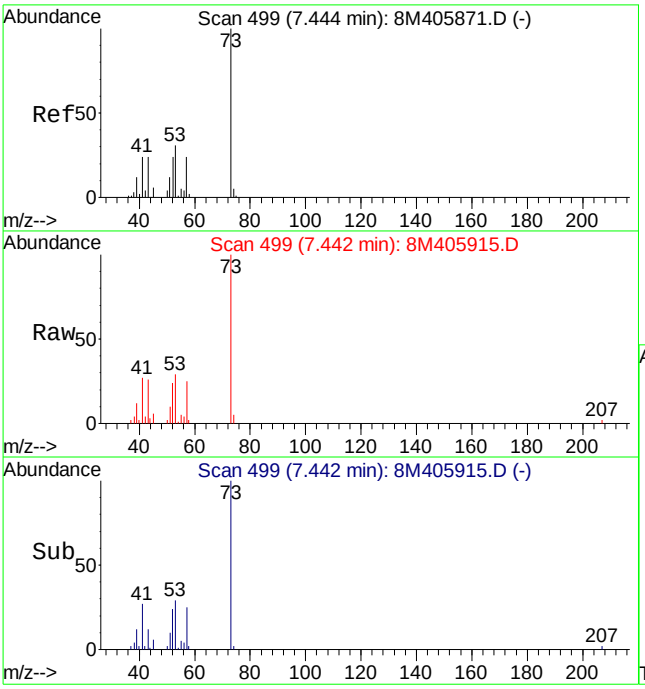


#20
Carbon Disulfide
Concen: 21.94 ug/L
RT: 7.30 min Scan# 485
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 76 Resp: 341831

Ion	Ratio	Lower	Upper
76	100		
78	9.9	5.7	13.3

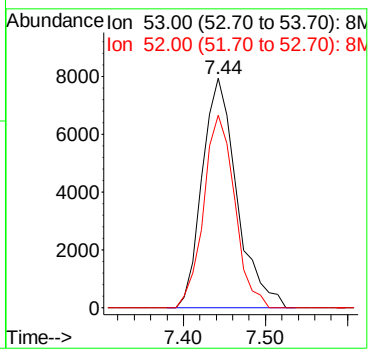


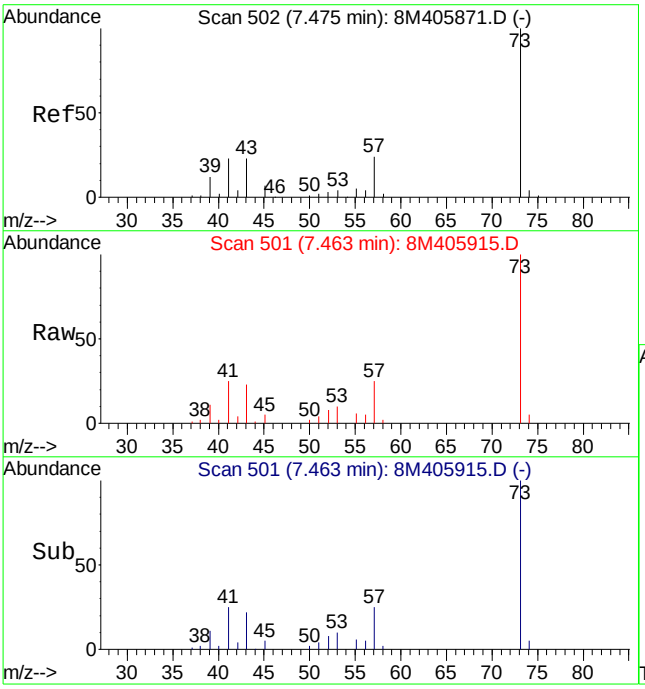


#21
Acrylonitrile
Concen: 21.77 ug/L
RT: 7.44 min Scan# 499
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 53 Resp: 23317

Ion	Ratio	Lower	Upper
53	100		
52	75.3	46.6	108.6

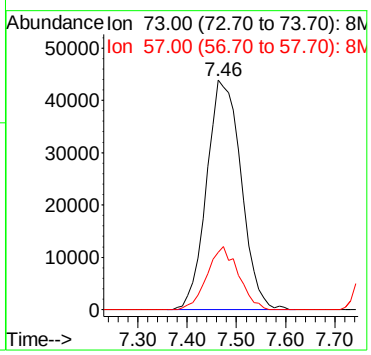


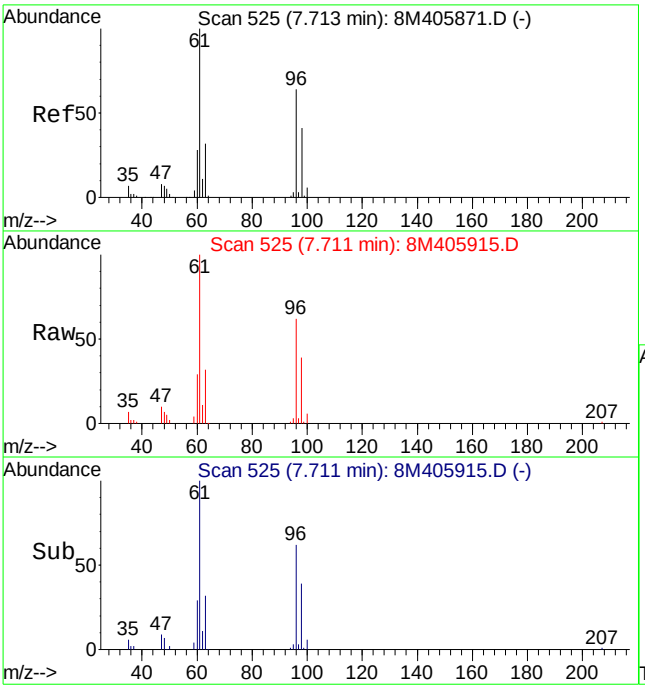


#22
Methyl Tert Butyl Ether
Concen: 21.33 ug/L
RT: 7.46 min Scan# 501
Delta R.T. -0.01 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 73 Resp: 213493

Ion	Ratio	Lower	Upper
73	100		
57	25.0	15.3	35.7

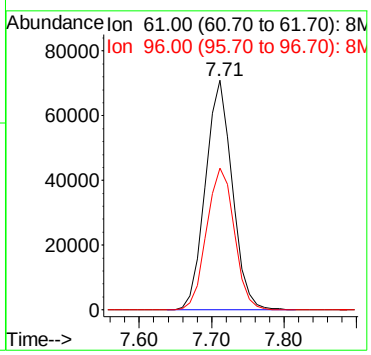


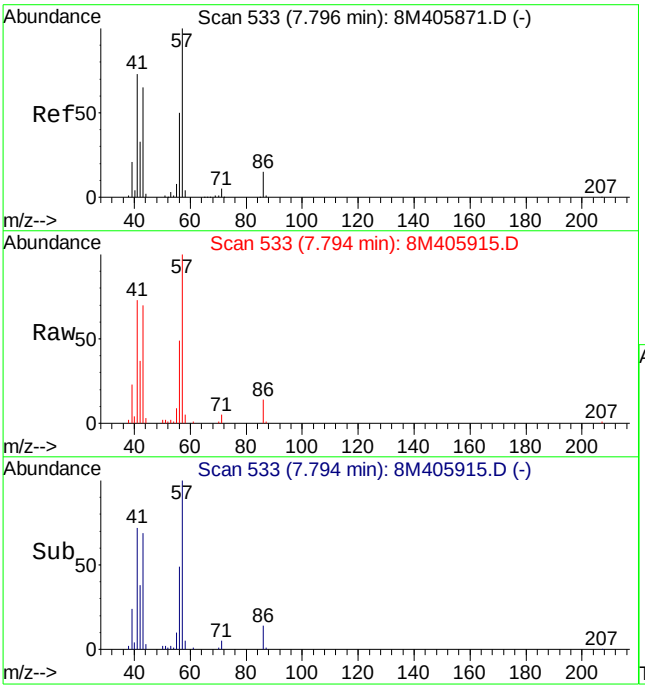


#23
trans-1,2-Dichloroethene
Concen: 21.83 ug/L
RT: 7.71 min Scan# 525
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 61 Resp: 182856

Ion	Ratio	Lower	Upper
61	100		
96	63.8	37.4	87.4

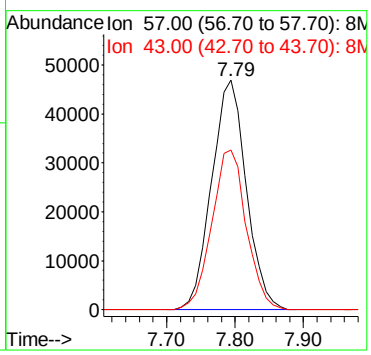


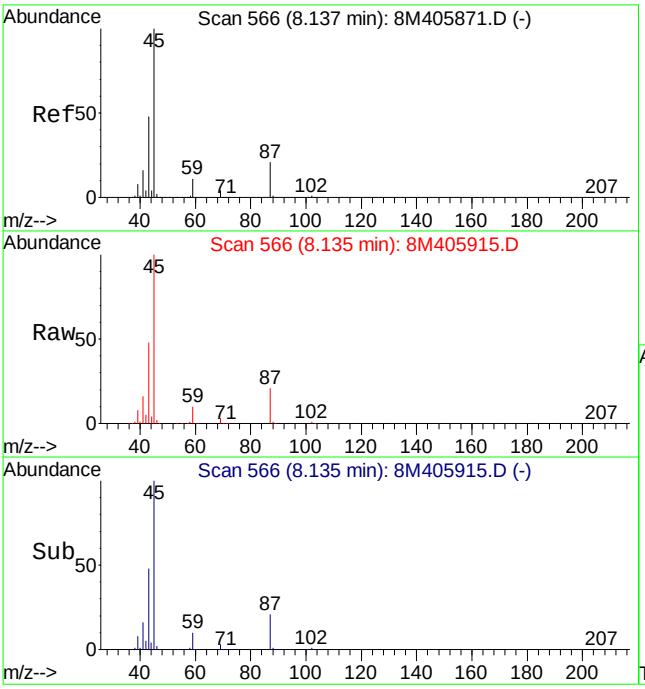


#24
n-Hexane
Concen: 19.97 ug/L
RT: 7.79 min Scan# 533
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 57 Resp: 165456

Ion	Ratio	Lower	Upper
57	100		
43	69.2	40.6	94.6

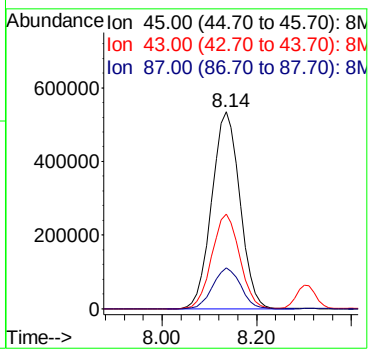


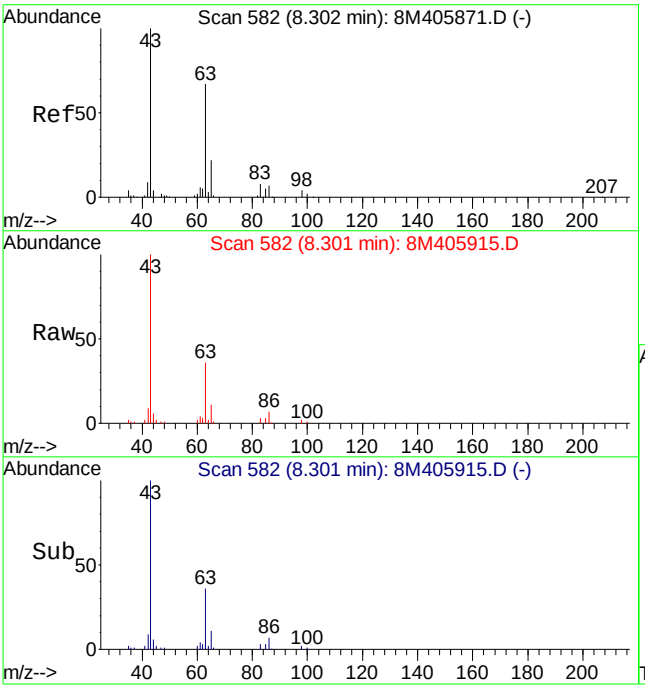


#25
Diisopropyl ether
Concen: 108.49 ug/L
RT: 8.14 min Scan# 566
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 45 Resp: 2208708

Ion	Ratio	Lower	Upper
45	100		
43	47.5	28.3	66.1
87	20.5	12.6	29.4

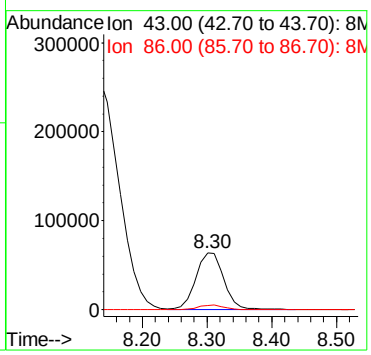


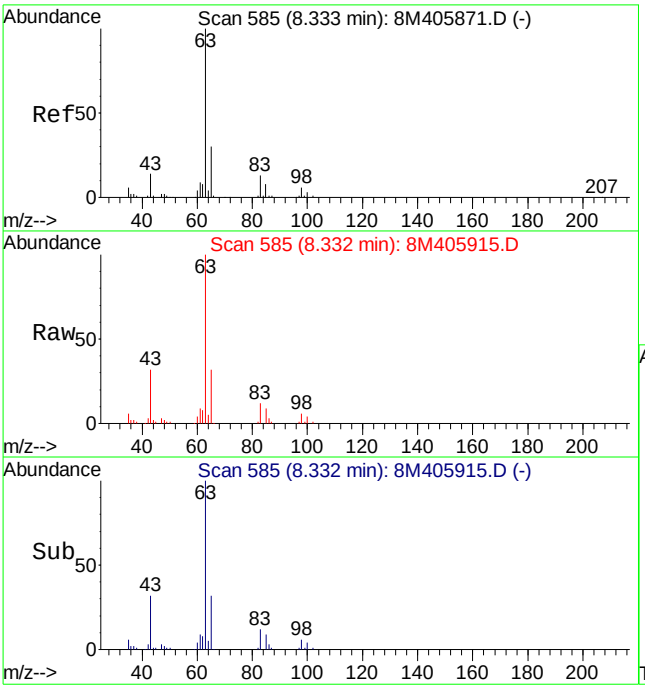


#26
Vinyl Acetate
Concen: 42.56 ug/L
RT: 8.30 min Scan# 582
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 43 Resp: 190554

Ion	Ratio	Lower	Upper
43	100		
86	7.3	4.9	11.3

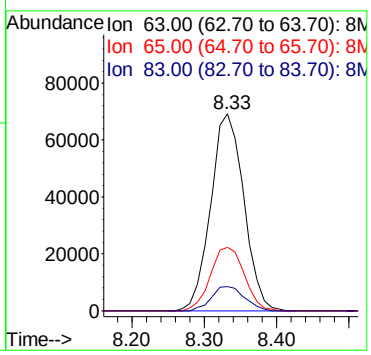


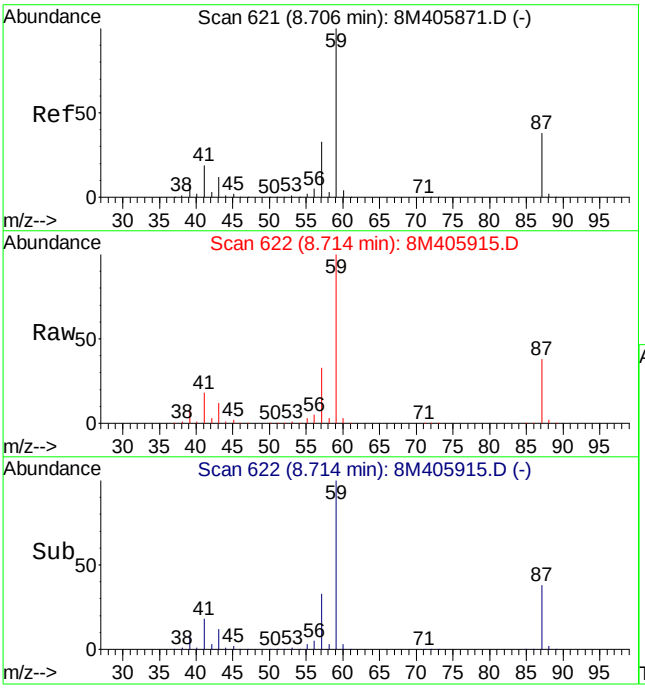


#27
1,1-Dichloroethane
Concen: 20.38 ug/L
RT: 8.33 min Scan# 585
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 63 Resp: 221615

Ion	Ratio	Lower	Upper
63	100		
65	33.0	18.4	43.0
83	12.3	7.7	18.1

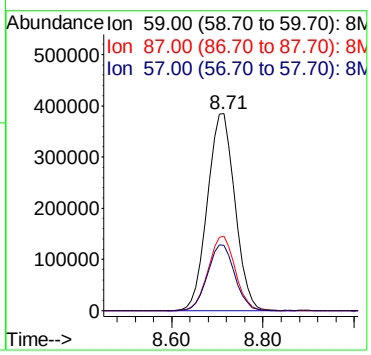


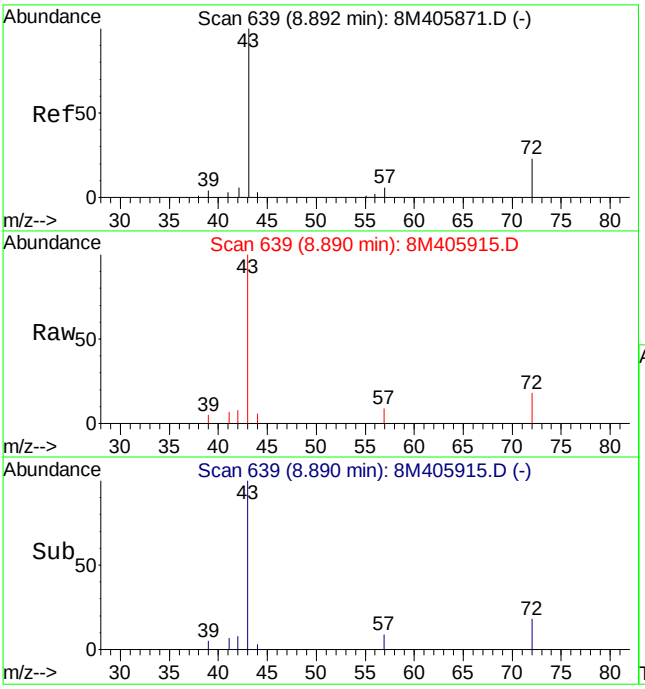


#28
Ethyl-Tert-Butyl ether
Concen: 102.21 ug/L
RT: 8.71 min Scan# 622
Delta R.T. 0.01 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 59 Resp: 1614381

Ion	Ratio	Lower	Upper
59	100		
87	37.1	22.5	52.5
57	32.9	20.0	46.6

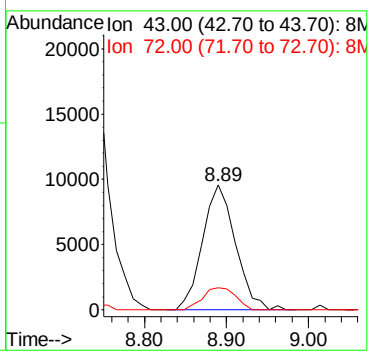


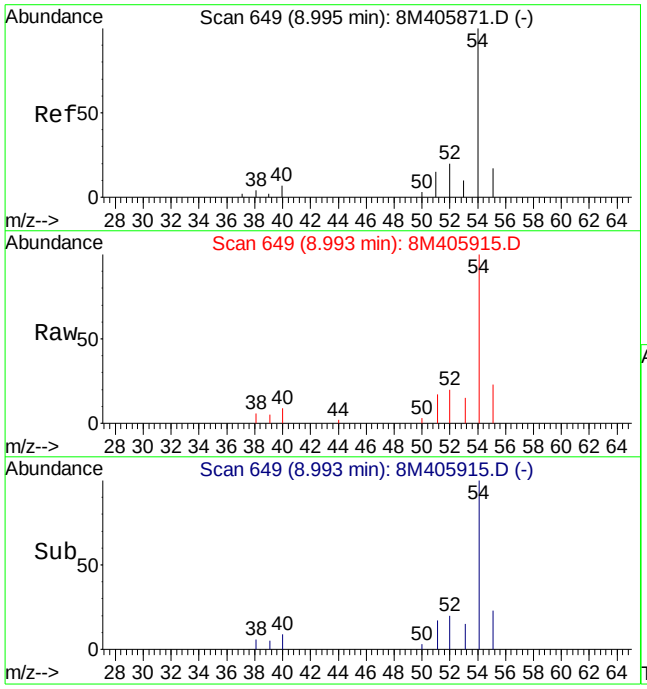


#29
2-Butanone
Concen: 21.66 ug/L
RT: 8.89 min Scan# 639
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 43 Resp: 26664

Ion	Ratio	Lower	Upper
43	100		
72	17.6	11.9	27.9

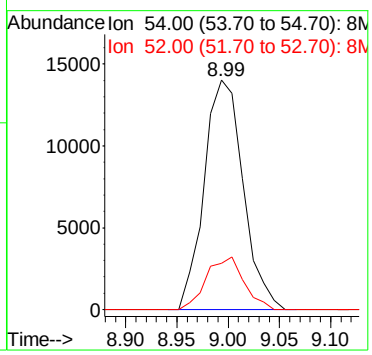


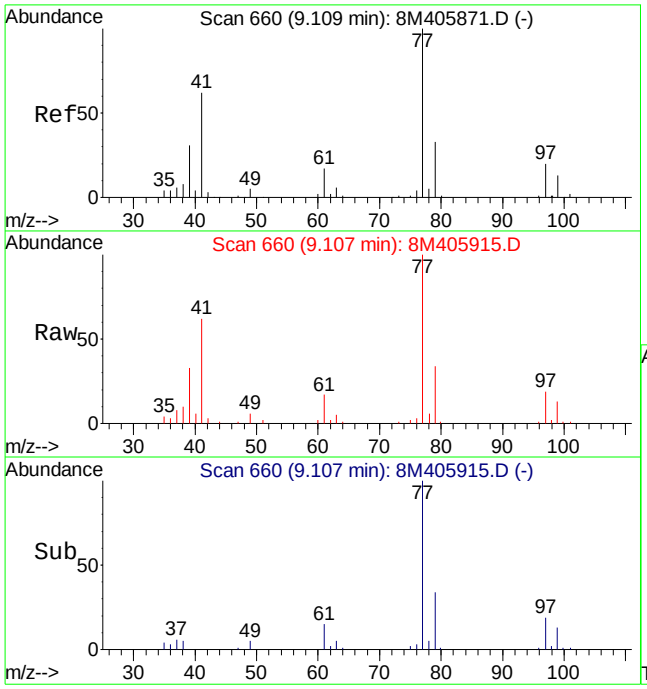


#30
Propionitrile
Concen: 101.56 ug/L
RT: 8.99 min Scan# 649
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 54 Resp: 37056

Ion	Ratio	Lower	Upper
54	100		
52	22.2	12.4	28.8

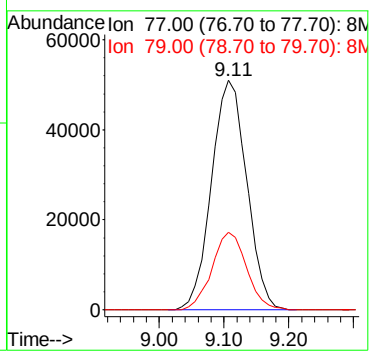


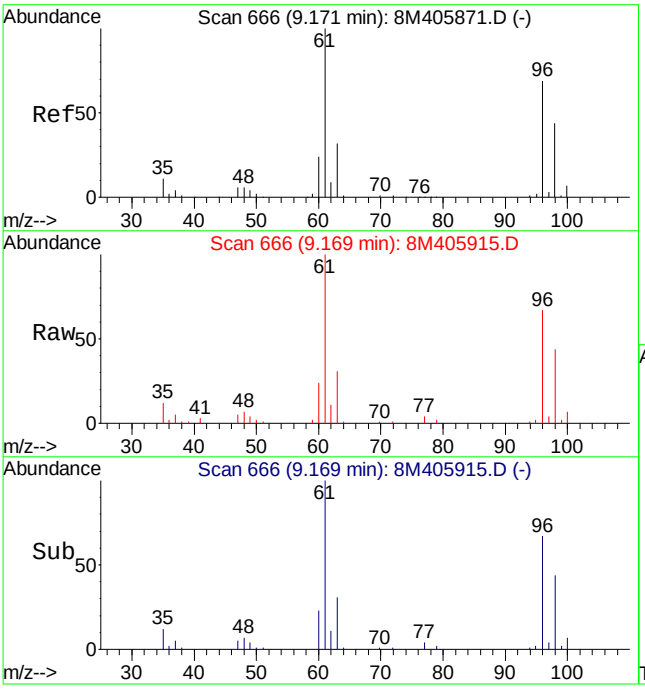


#31
2,2-Dichloropropane
Concen: 22.25 ug/L
RT: 9.11 min Scan# 660
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 77 Resp: 193153

Ion	Ratio	Lower	Upper
77	100		
79	33.0	19.4	45.4

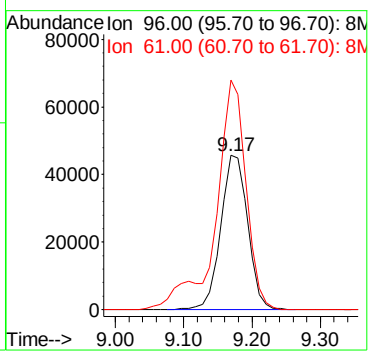


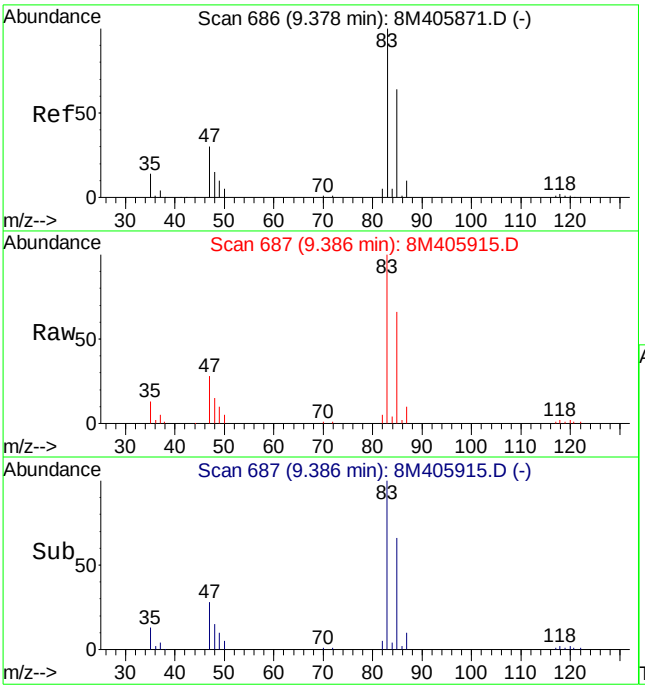


#32
cis-1,2-Dichloroethene
Concen: 21.73 ug/L
RT: 9.17 min Scan# 666
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 96 Resp: 125710

Ion	Ratio	Lower	Upper
96	100		
61	165.7	99.8	233.0

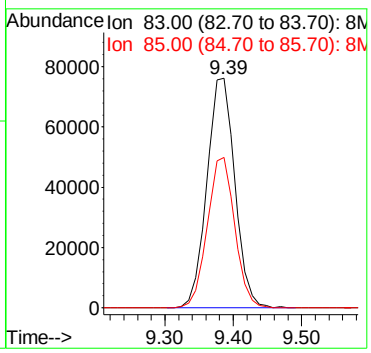


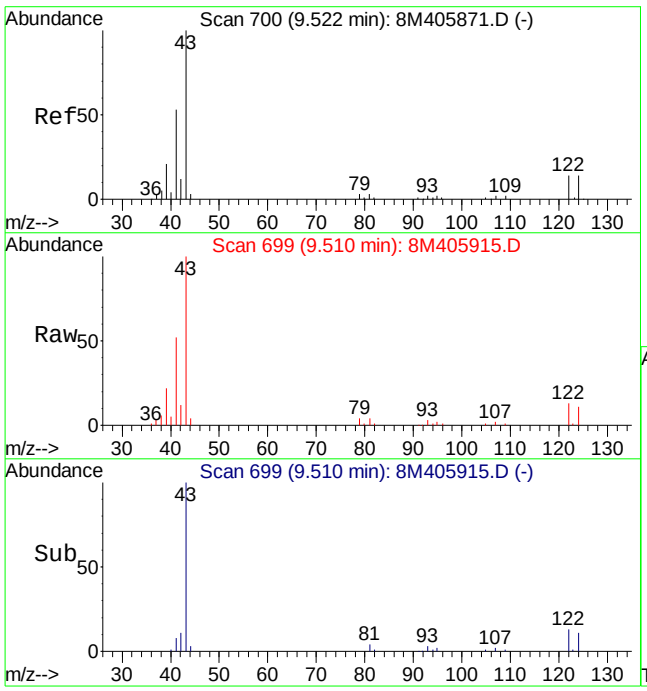


#33
Chloroform
Concen: 21.88 ug/L
RT: 9.39 min Scan# 687
Delta R.T. 0.01 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 83 Resp: 216389

Ion	Ratio	Lower	Upper
83	100		
85	64.2	38.8	90.4

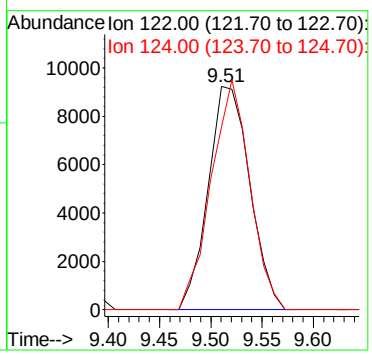


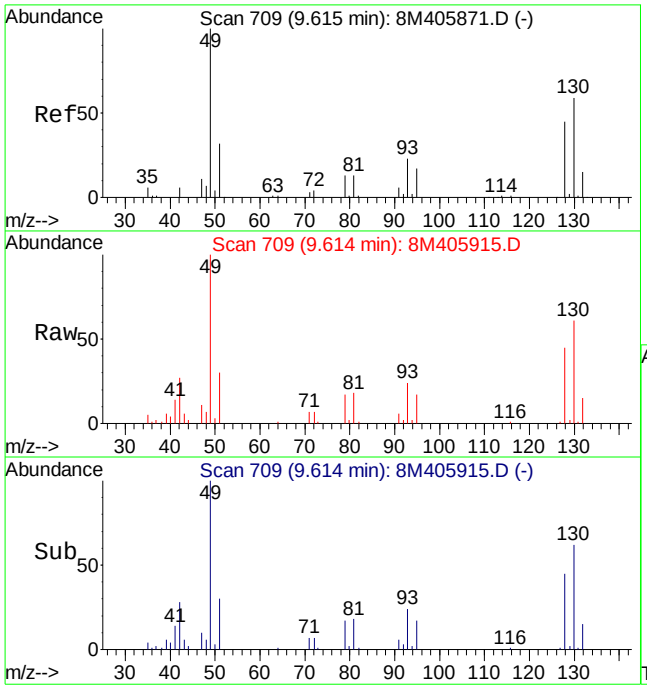


#34
1-Bromopropane
Concen: 27.37 ug/L
RT: 9.51 min Scan# 699
Delta R.T. -0.01 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:122 Resp: 26083

Ion	Ratio	Lower	Upper
122	100		
124	95.5	0.0	213.1

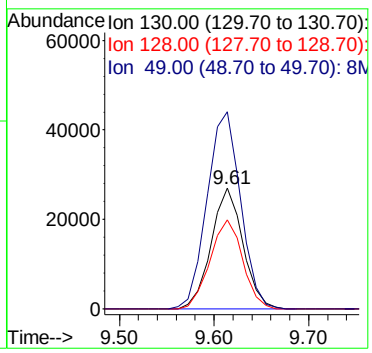


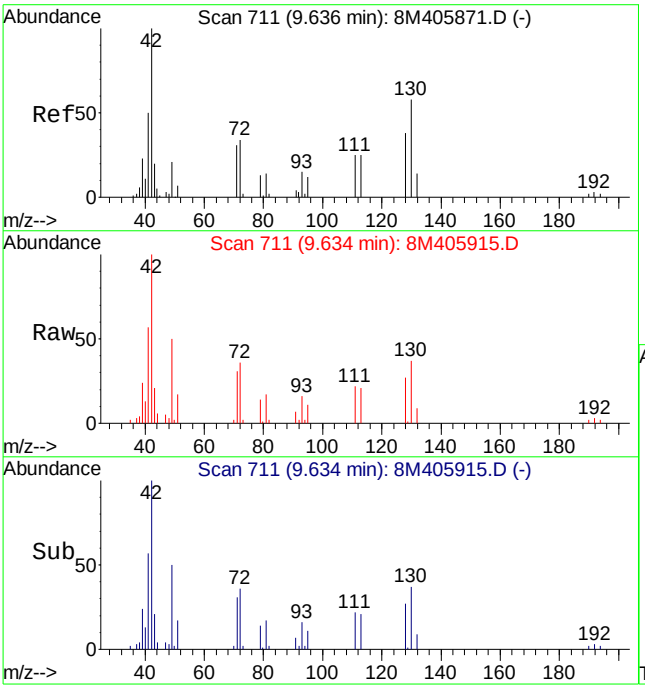


#35
Bromochloromethane
Concen: 22.10 ug/L
RT: 9.61 min Scan# 709
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:130 Resp: 63169

Ion	Ratio	Lower	Upper
130	100		
128	75.4	46.4	108.2
49	171.5	104.0	242.8

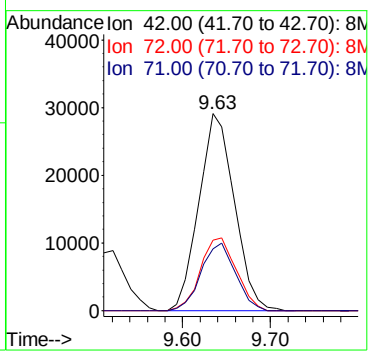


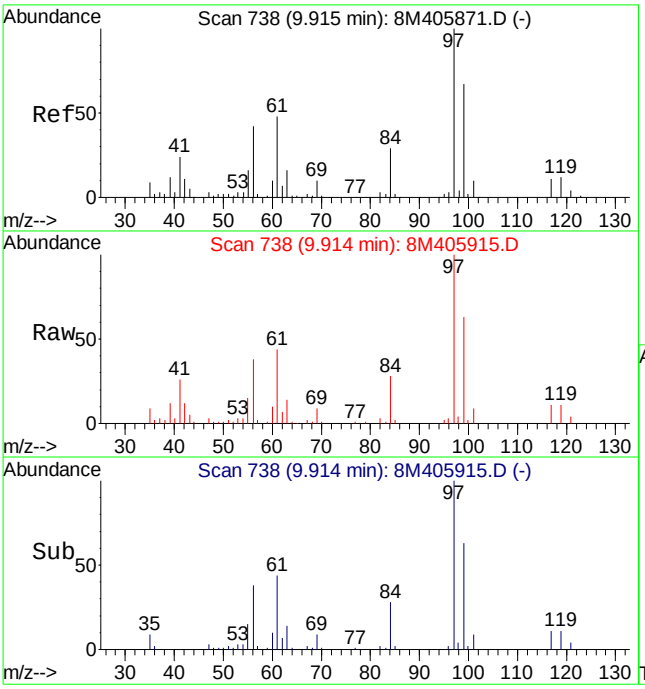


#36
Tetrahydrofuran
Concen: 99.43 ug/L
RT: 9.63 min Scan# 711
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 42 Resp: 81756

Ion	Ratio	Lower	Upper
42	100		
72	37.2	22.4	52.4
71	33.2	19.5	45.5

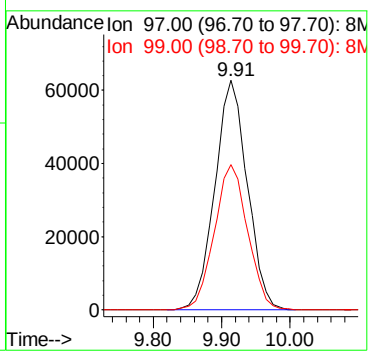


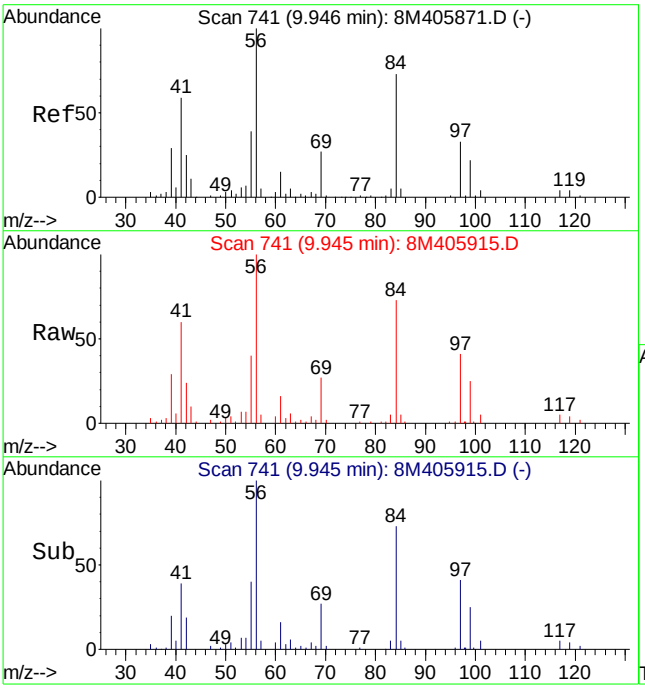


#38
1,1,1-Trichloroethane
Concen: 22.07 ug/L
RT: 9.91 min Scan# 738
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 97 Resp: 207175

Ion	Ratio	Lower	Upper
97	100		
99	64.9	39.7	92.7

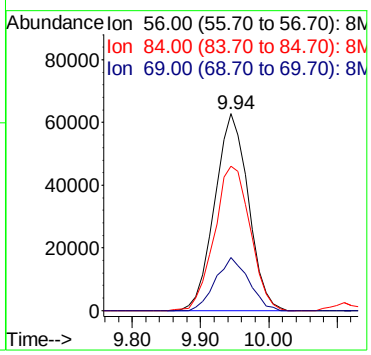


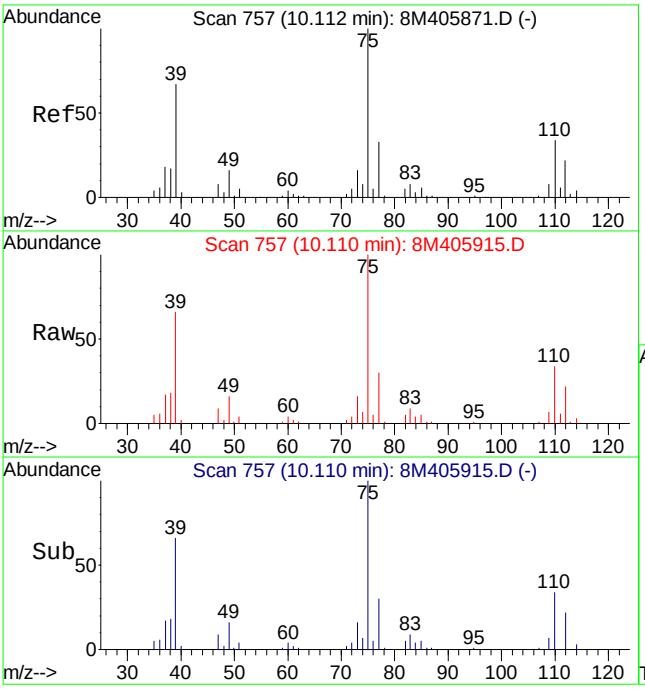


#39
Cyclohexane
Concen: 19.50 ug/L
RT: 9.94 min Scan# 741
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 56 Resp: 214396

Ion	Ratio	Lower	Upper
56	100		
84	78.2	45.4	105.8
69	26.5	15.8	37.0

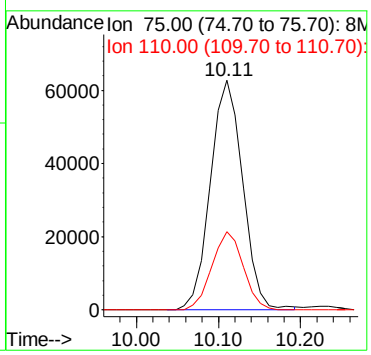


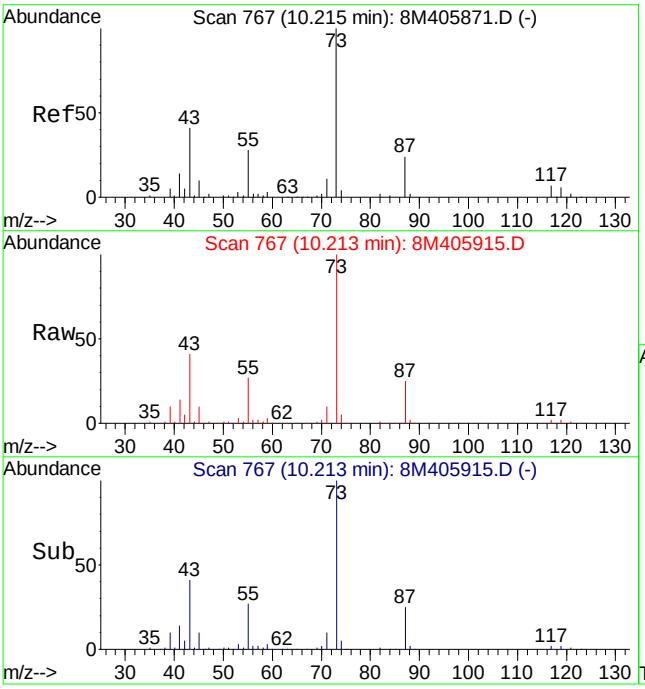


#40
1,1-Dichloropropene
Concen: 22.87 ug/L
RT: 10.11 min Scan# 757
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 75 Resp: 172061

Ion	Ratio	Lower	Upper
75	100		
110	32.8	20.2	47.0

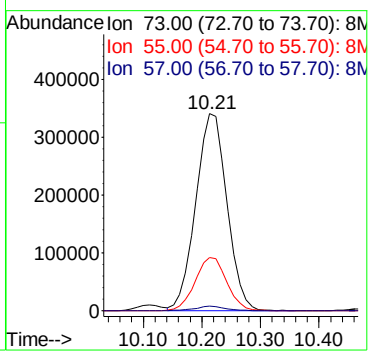


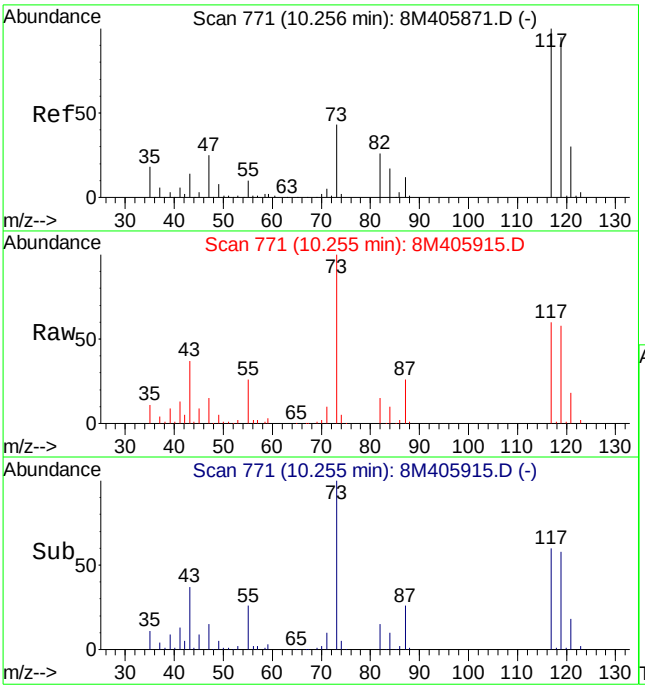


#41
Tert-Amyl-Methyl ether
Concen: 106.88 ug/L
RT: 10.21 min Scan# 767
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 73 Resp: 1255127

Ion	Ratio	Lower	Upper
73	100		
55	27.2	16.1	37.5
57	2.1	1.3	3.1

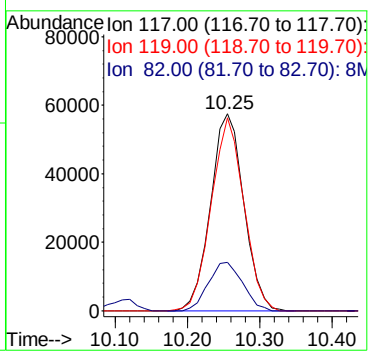


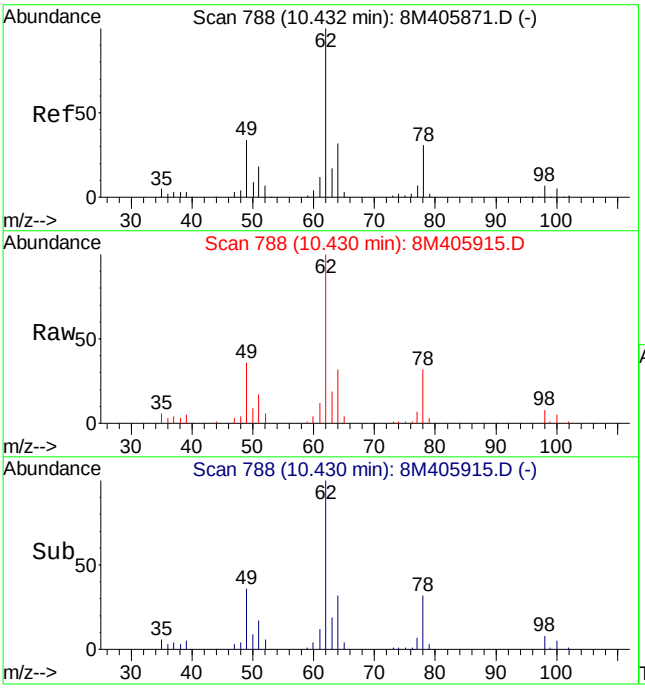


#42
Carbon Tetrachloride
Concen: 21.80 ug/L
RT: 10.25 min Scan# 771
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:117 Resp: 185346

Ion	Ratio	Lower	Upper
117	100		
119	95.8	58.0	135.2
82	25.2	15.7	36.5

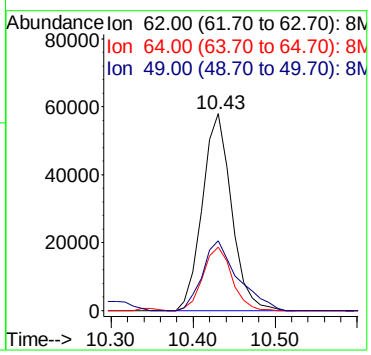


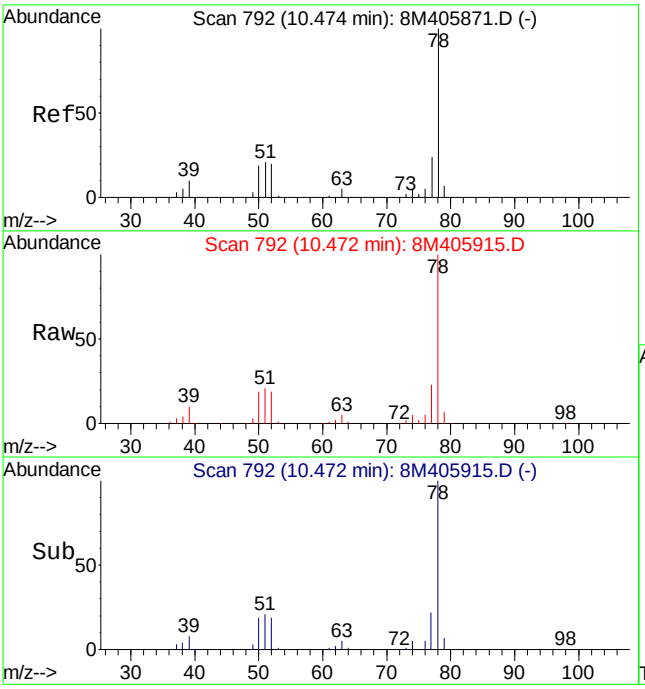


#45
1,2-Dichloroethane
Concen: 21.34 ug/L
RT: 10.43 min Scan# 788
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 62 Resp: 143492

Ion	Ratio	Lower	Upper
62	100		
64	32.0	18.8	44.0
49	42.8	25.3	58.9

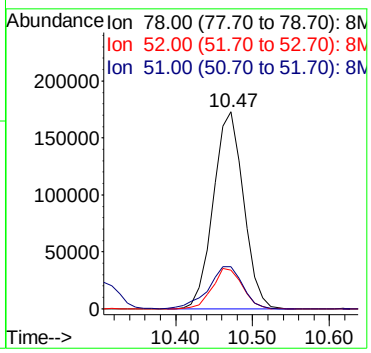


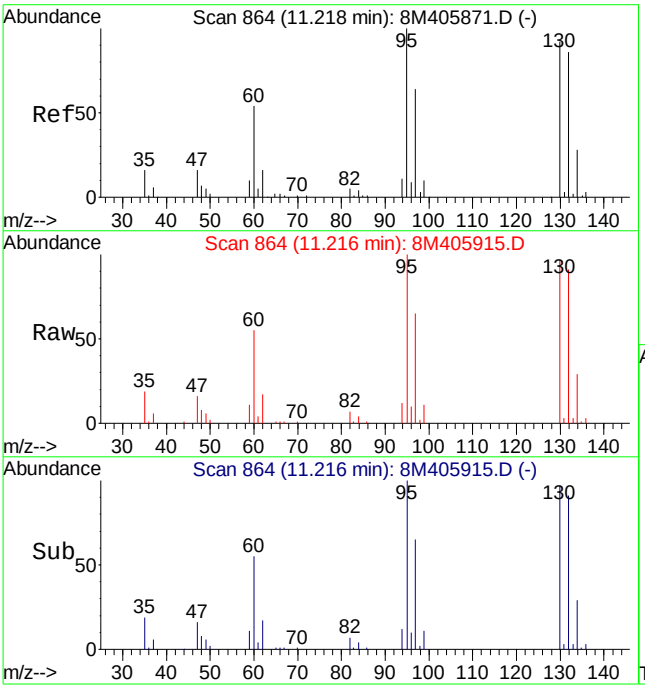


#46
Benzene
Concen: 21.85 ug/L
RT: 10.47 min Scan# 792
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 78 Resp: 471350

Ion	Ratio	Lower	Upper
78	100		
52	20.2	12.1	28.1
51	24.5	14.6	34.2

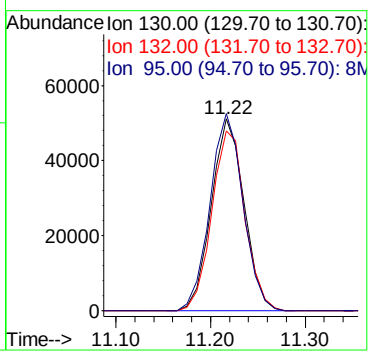


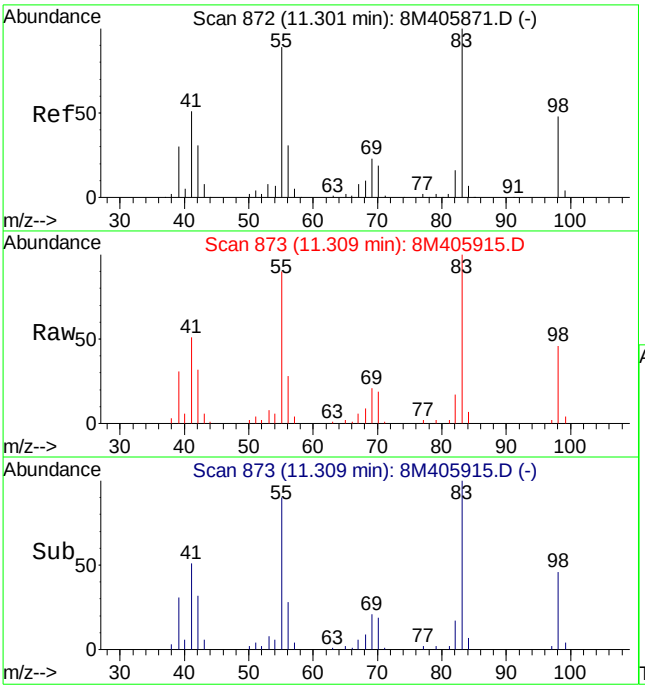


#47
Trichloroethene
Concen: 23.10 ug/L
RT: 11.22 min Scan# 864
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:130 Resp: 123988

Ion	Ratio	Lower	Upper
130	100		
132	94.6	59.0	137.6
95	103.4	65.0	151.8

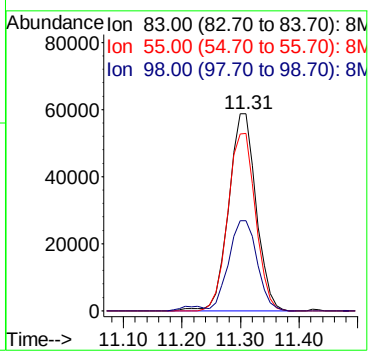


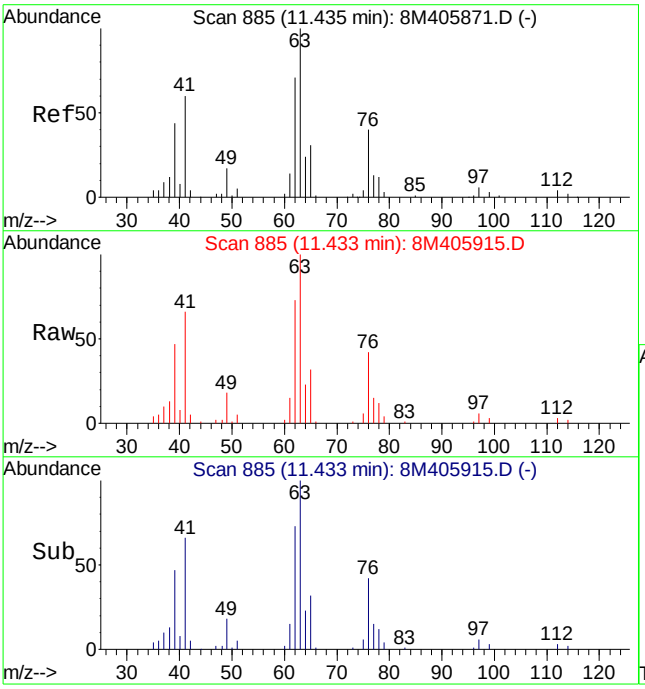


#48
Methylcyclohexane
Concen: 21.81 ug/L
RT: 11.31 min Scan# 873
Delta R.T. 0.01 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 83 Resp: 190793

Ion	Ratio	Lower	Upper
83	100		
55	90.5	54.8	128.0
98	47.2	29.0	67.8

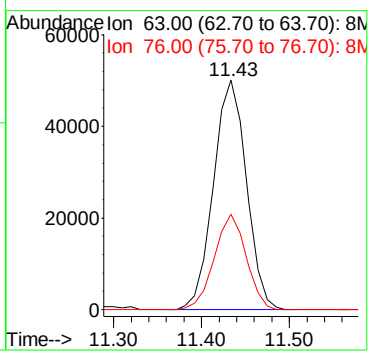


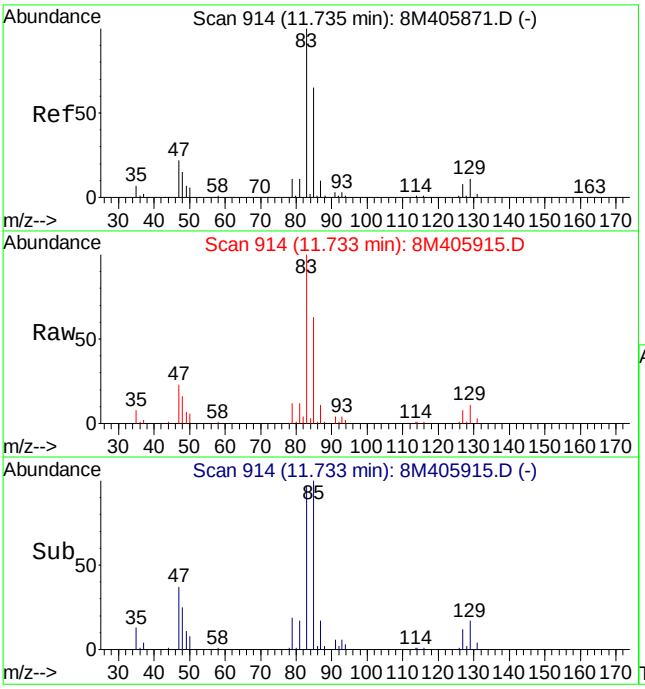


#49
1,2-Dichloropropane
Concen: 21.86 ug/L
RT: 11.43 min Scan# 885
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 63 Resp: 130797

Ion	Ratio	Lower	Upper
63	100		
76	40.2	24.4	57.0

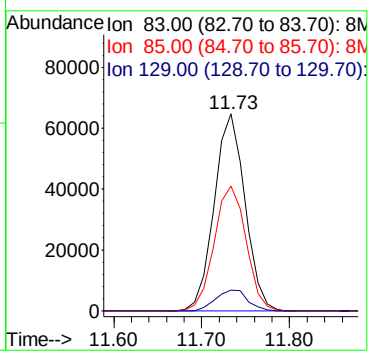


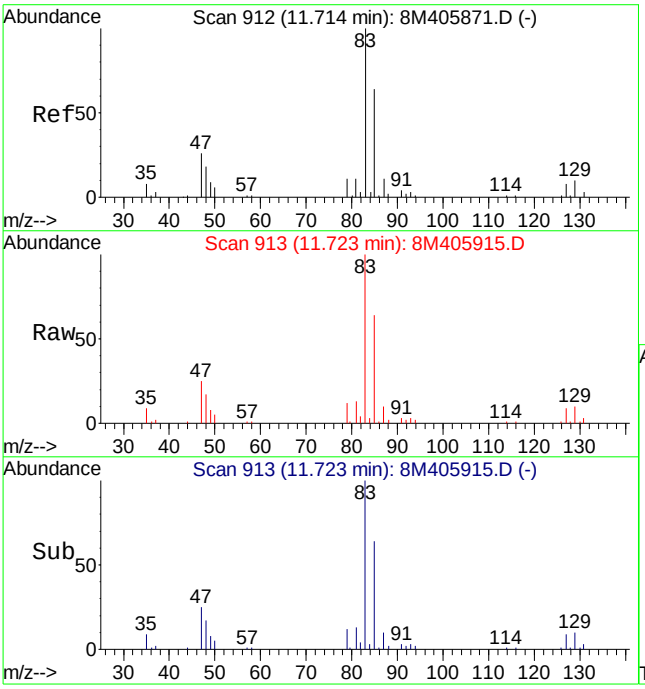


#50
Bromodichloromethane
Concen: 21.35 ug/L
RT: 11.73 min Scan# 914
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 83 Resp: 157712

Ion	Ratio	Lower	Upper
83	100		
85	65.6	38.6	90.2
129	10.9	6.6	15.4

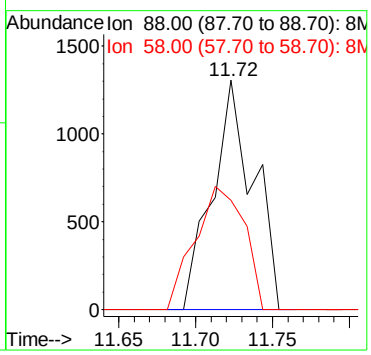


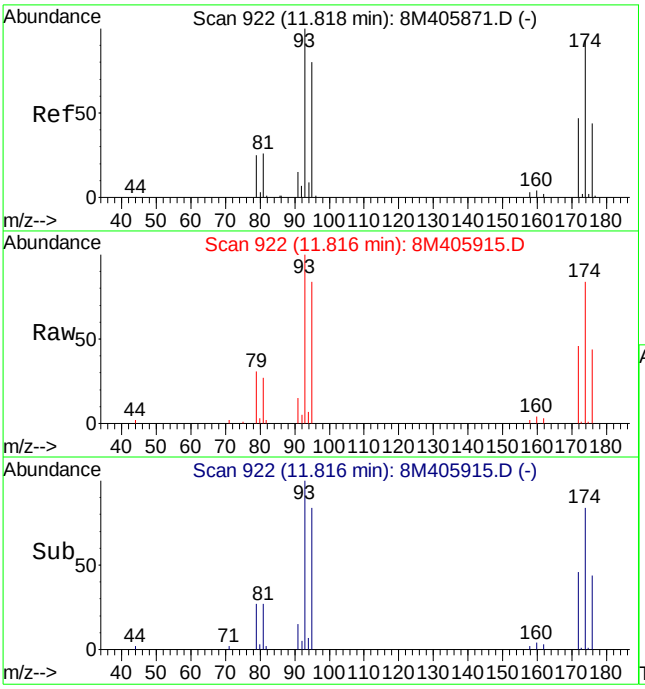


#51
1,4-Dioxane
Concen: 132.07 ug/L
RT: 11.72 min Scan# 913
Delta R.T. 0.01 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 88 Resp: 2438

Ion	Ratio	Lower	Upper
88	100		
58	64.1	46.9	109.3

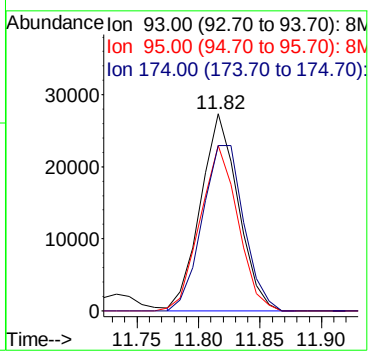


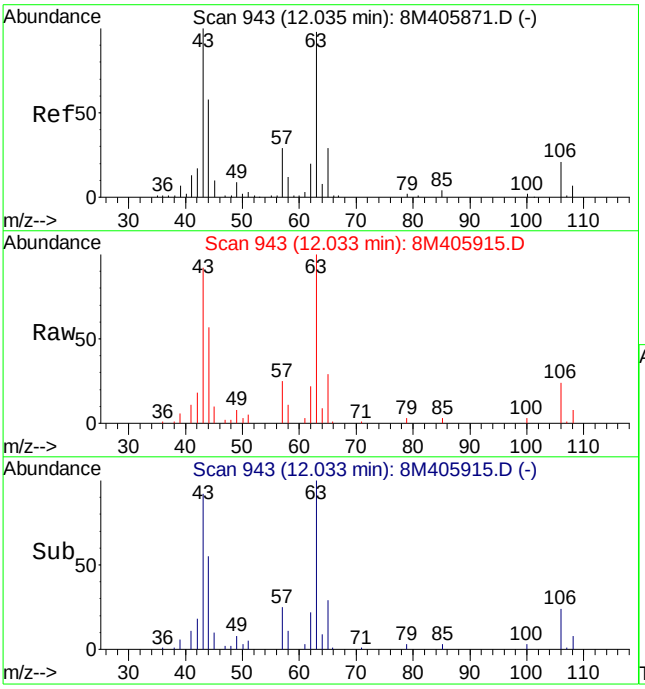


#52
Dibromomethane
Concen: 21.01 ug/L
RT: 11.82 min Scan# 922
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 93 Resp: 58104

Ion	Ratio	Lower	Upper
93	100		
95	84.2	48.9	114.1
174	92.7	58.1	135.5

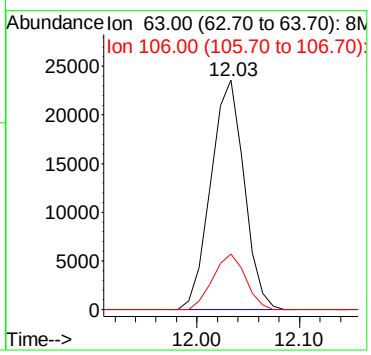


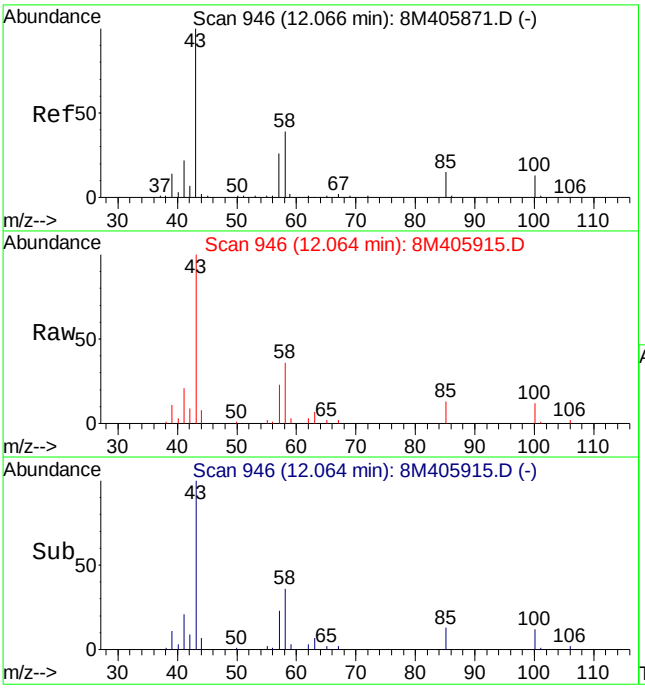


#53
2-Chloroethyl Vinyl Ether
Concen: 20.38 ug/L
RT: 12.03 min Scan# 943
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 63 Resp: 53306

Ion	Ratio	Lower	Upper
63	100		
106	23.6	13.7	31.9

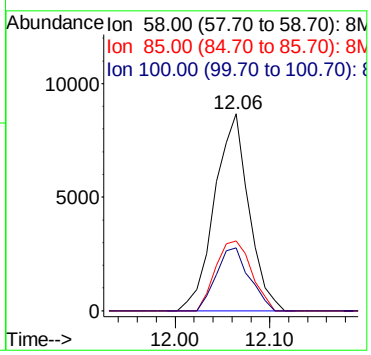


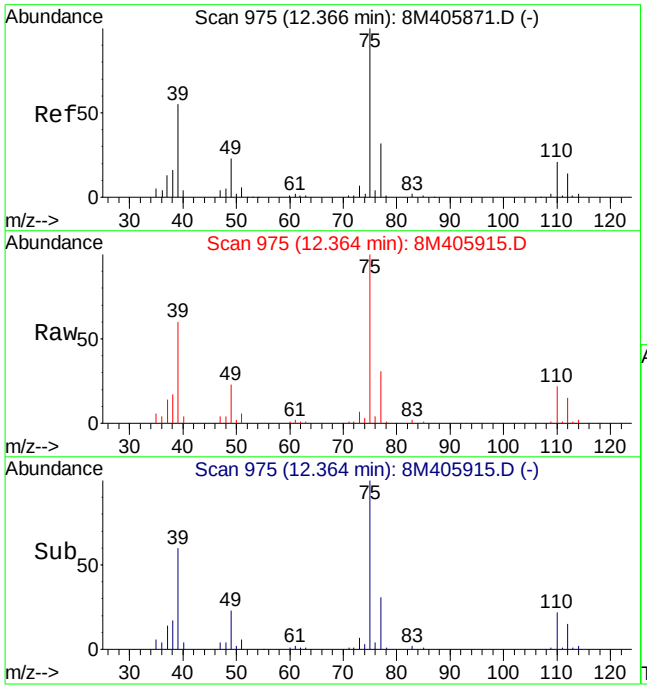


#54
4-Methyl-2-Pentanone
Concen: 19.72 ug/L
RT: 12.06 min Scan# 946
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 58 Resp: 21941

Ion	Ratio	Lower	Upper
58	100		
85	37.3	21.8	51.0
100	31.0	19.4	45.4

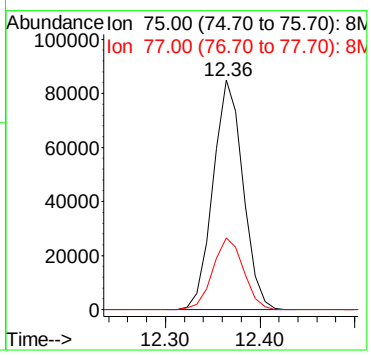


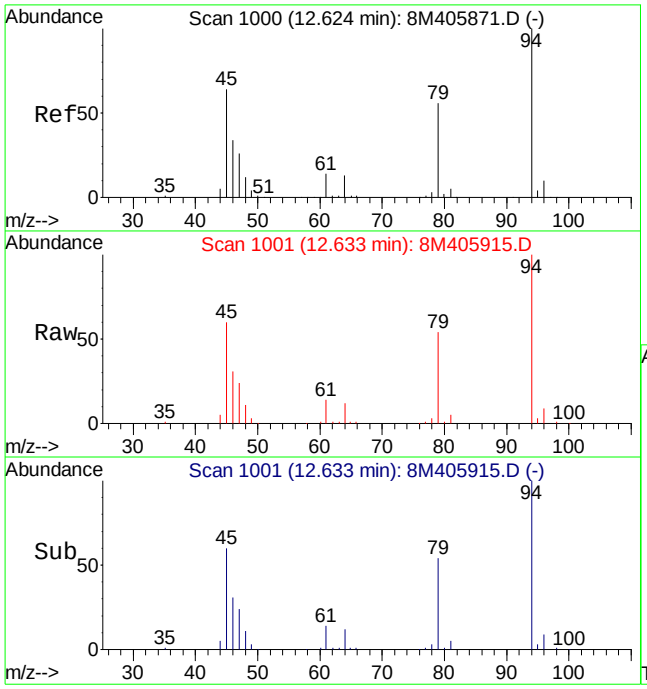


#55
cis-1,3-Dichloropropene
Concen: 23.02 ug/L
RT: 12.36 min Scan# 975
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 75 Resp: 188637

Ion	Ratio	Lower	Upper
75	100		
77	31.9	18.9	44.1

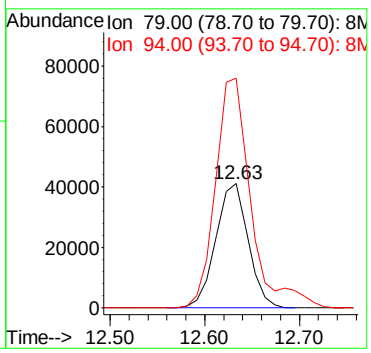


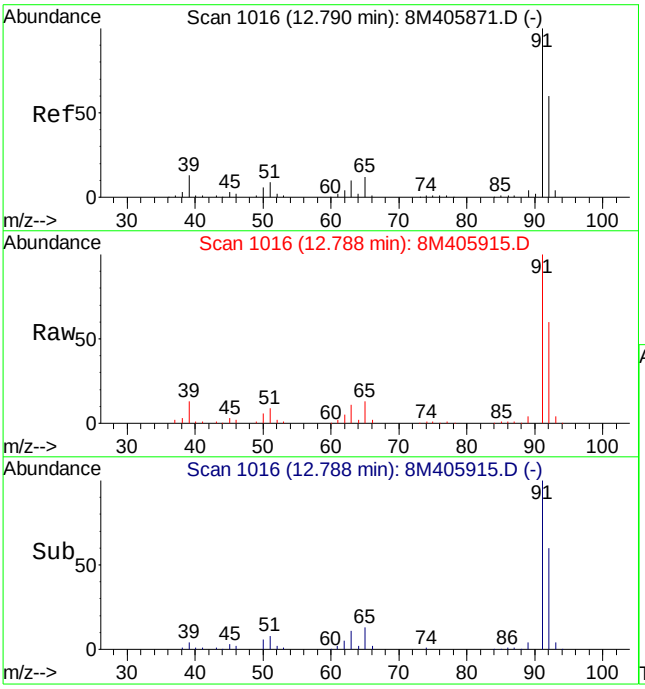


#56
Dimethyl Disulfide
Concen: 21.52 ug/L
RT: 12.63 min Scan# 1001
Delta R.T. 0.01 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 79 Resp: 98186

Ion	Ratio	Lower	Upper
79	100		
94	202.4	114.7	267.7

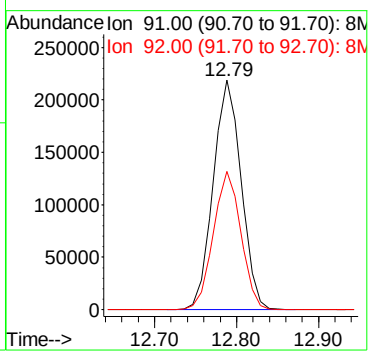


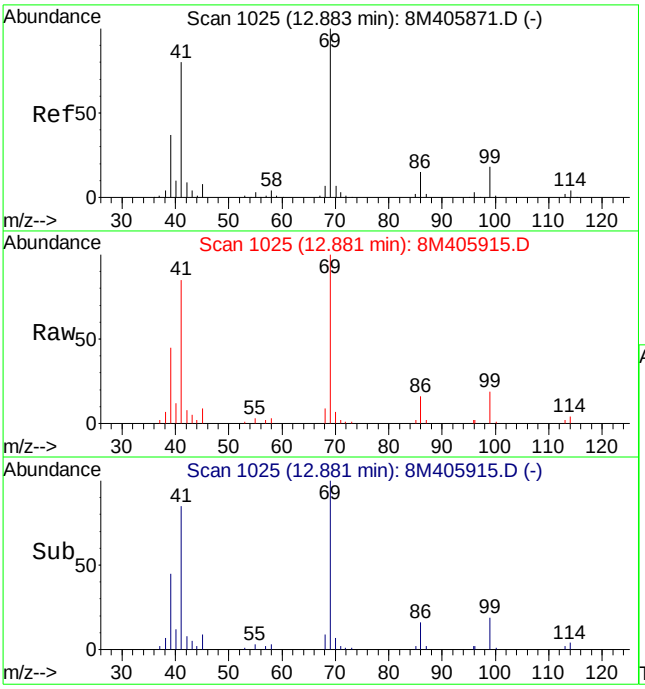


#59
Toluene
Concen: 22.13 ug/L
RT: 12.79 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 91 Resp: 518537

Ion	Ratio	Lower	Upper
91	100		
92	59.3	35.7	83.3

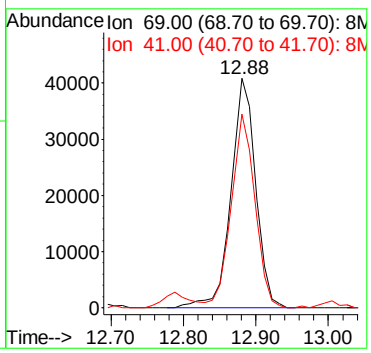


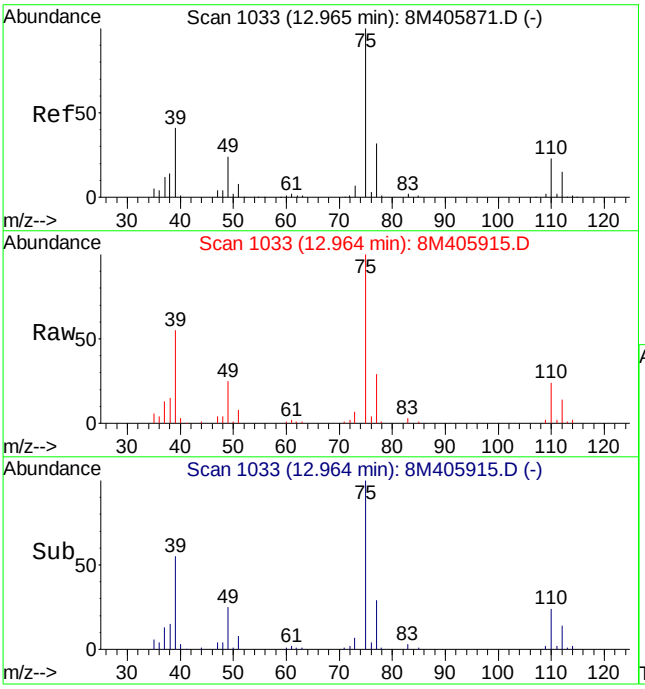


#60
Ethyl Methacrylate
Concen: 22.64 ug/L
RT: 12.88 min Scan# 1025
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 69 Resp: 97869

Ion	Ratio	Lower	Upper
69	100		
41	81.2	48.5	113.3

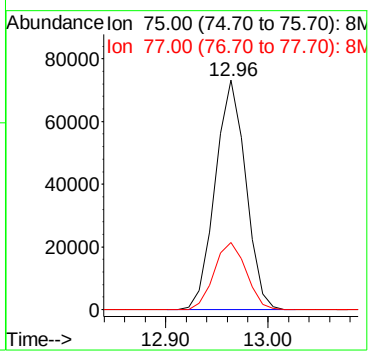


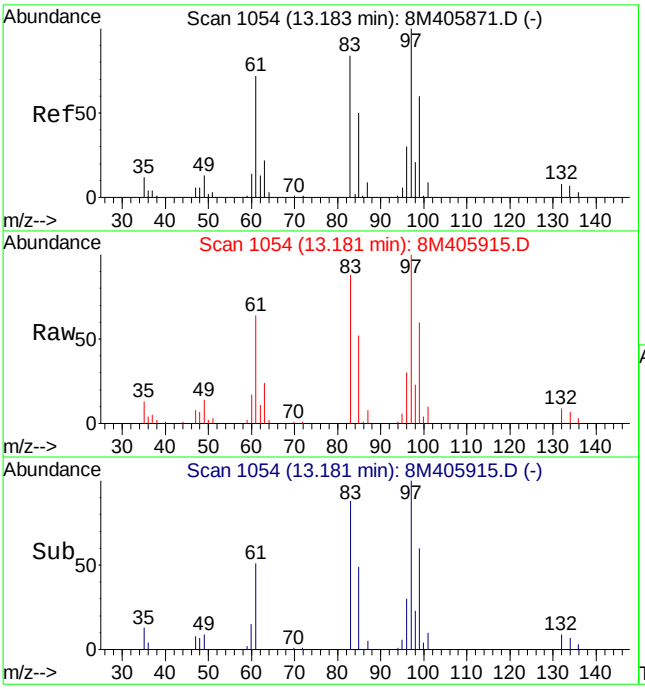


#62
trans-1,3-Dichloropropene
Concen: 20.96 ug/L
RT: 12.96 min Scan# 1033
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 75 Resp: 151496

Ion	Ratio	Lower	Upper
75	100		
77	30.5	19.2	44.8

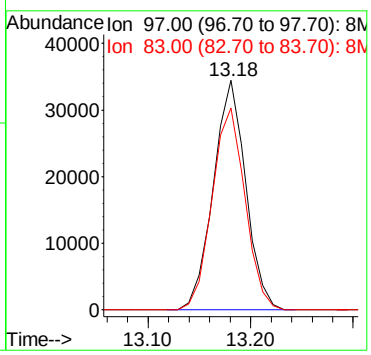


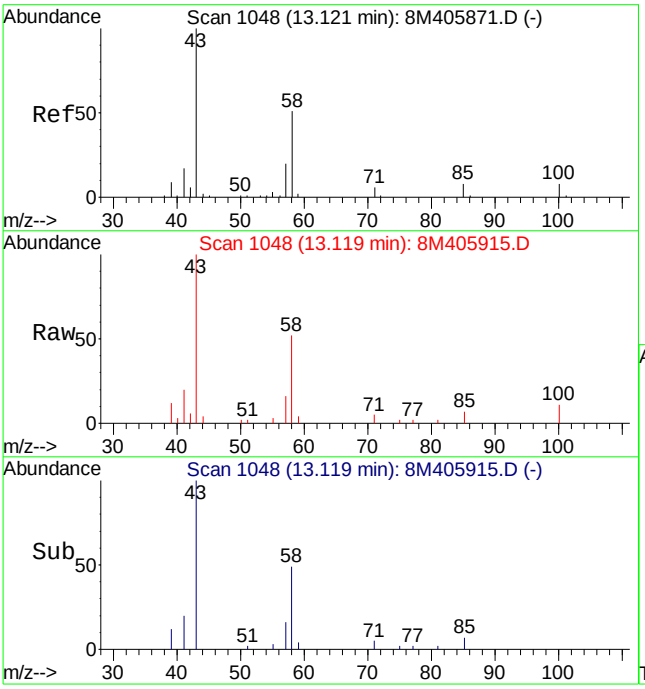


#63
1,1,2-Trichloroethane
Concen: 20.88 ug/L
RT: 13.18 min Scan# 1054
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 97 Resp: 75615

Ion	Ratio	Lower	Upper
97	100		
83	89.3	51.1	119.1

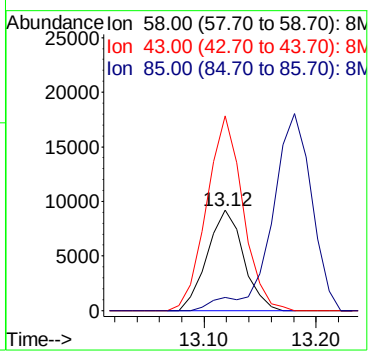


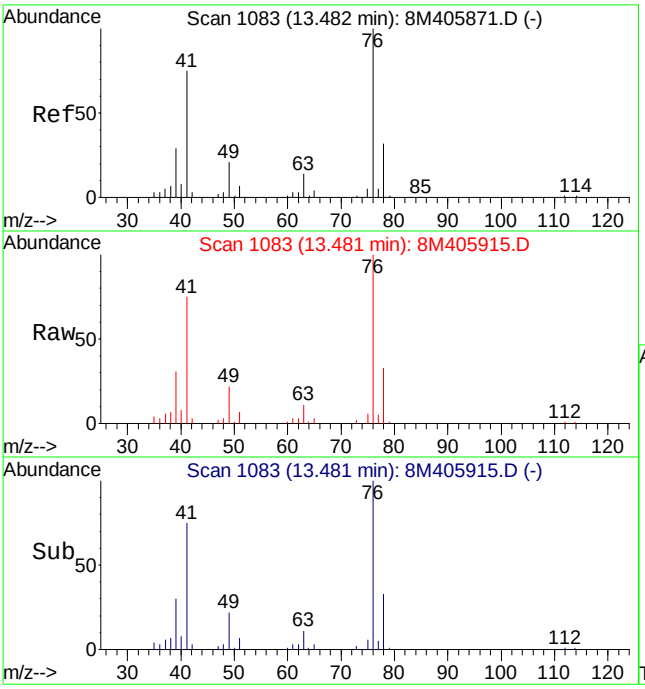


#64
2-Hexanone
Concen: 19.87 ug/L
RT: 13.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 58 Resp: 20790

Ion	Ratio	Lower	Upper
58	100		
43	193.2	116.8	272.4
85	214.0	0.0	0.0#

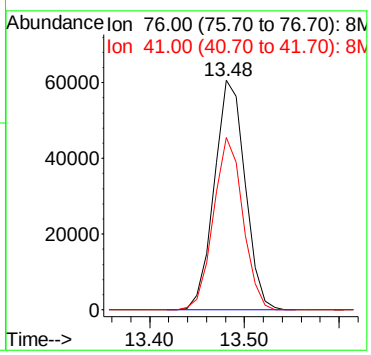


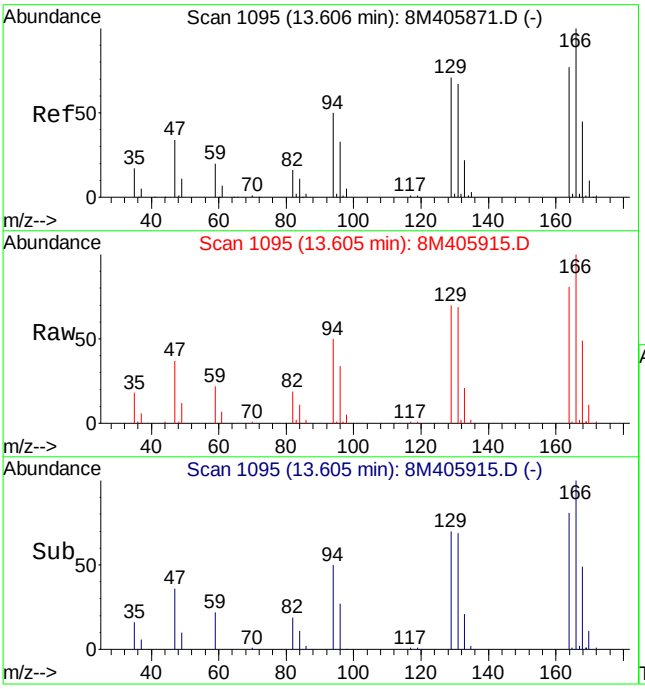


#65
1,3-Dichloropropane
Concen: 21.72 ug/L
RT: 13.48 min Scan# 1083
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 76 Resp: 137846

Ion	Ratio	Lower	Upper
76	100		
41	71.6	43.3	100.9

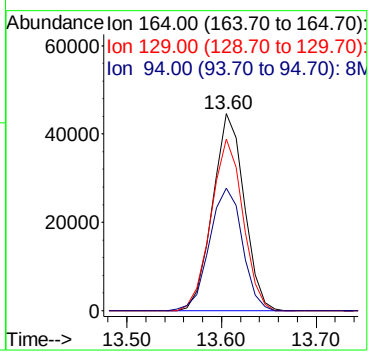


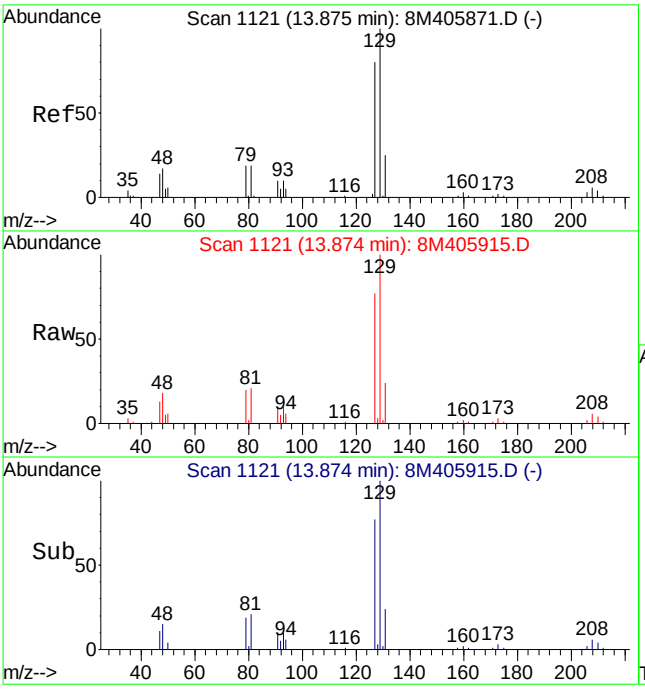


#66
Tetrachloroethene
Concen: 21.64 ug/L
RT: 13.60 min Scan# 1095
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:164 Resp: 103606

Ion	Ratio	Lower	Upper
164	100		
129	88.1	54.3	126.7
94	64.9	38.3	89.5

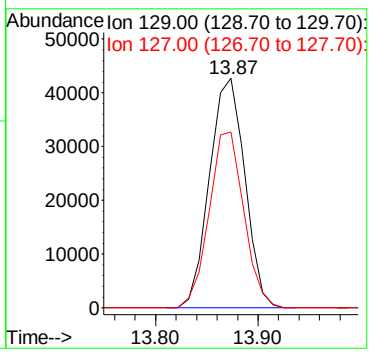


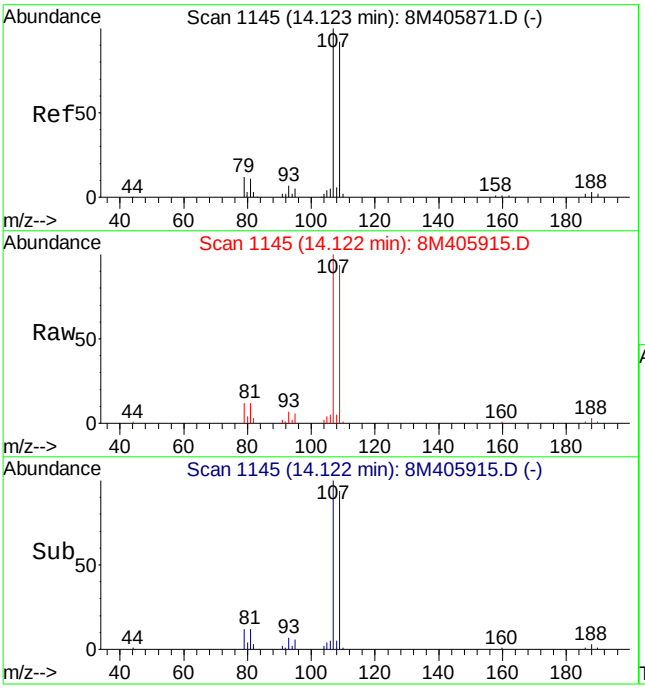


#67
Dibromochloromethane
Concen: 19.45 ug/L
RT: 13.87 min Scan# 1121
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:129 Resp: 102180

Ion	Ratio	Lower	Upper
129	100		
127	75.5	46.4	108.2

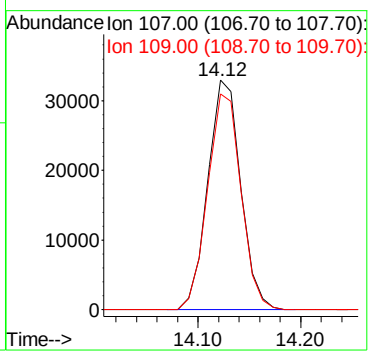


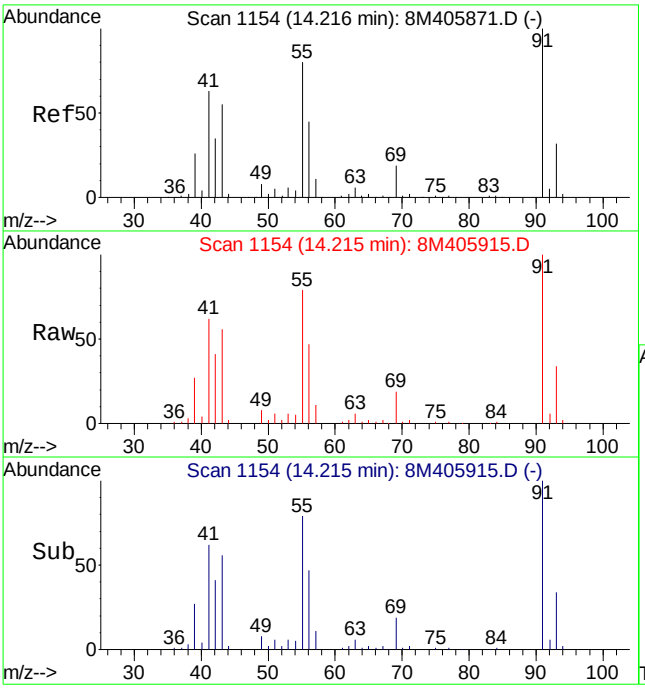


#68
1,2-Dibromoethane
Concen: 21.02 ug/L
RT: 14.12 min Scan# 1145
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:107 Resp: 73256

Ion	Ratio	Lower	Upper
107	100		
109	95.6	56.5	131.7

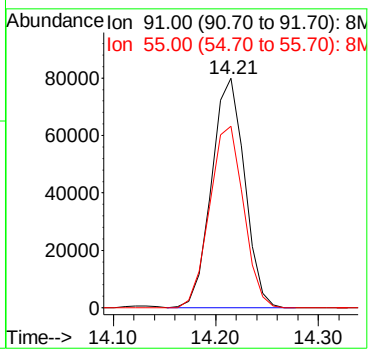


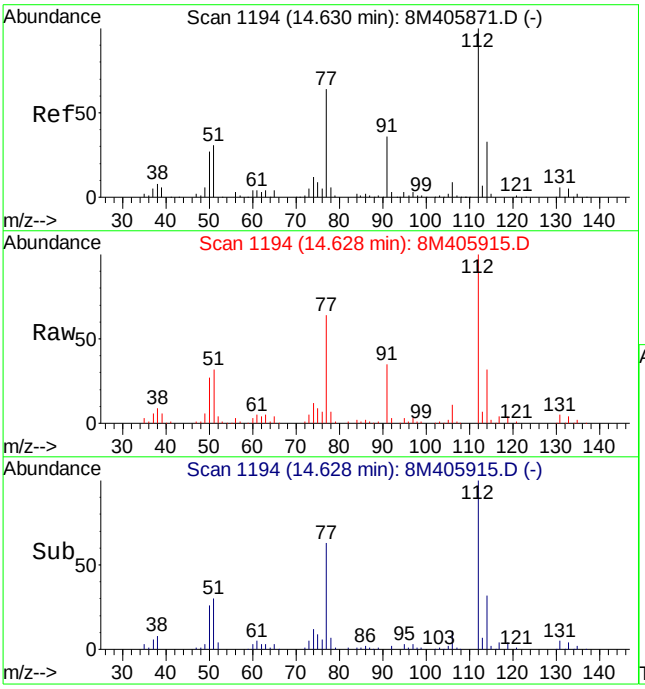


#69
1-Chlorohexane
Concen: 21.86 ug/L
RT: 14.21 min Scan# 1154
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 91 Resp: 178793

Ion	Ratio	Lower	Upper
91	100		
55	81.4	48.3	112.7

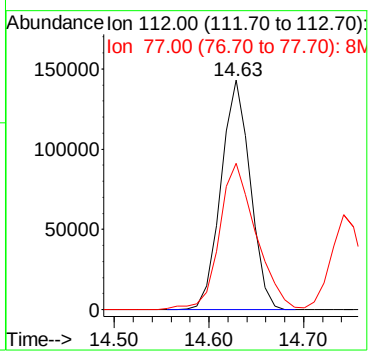


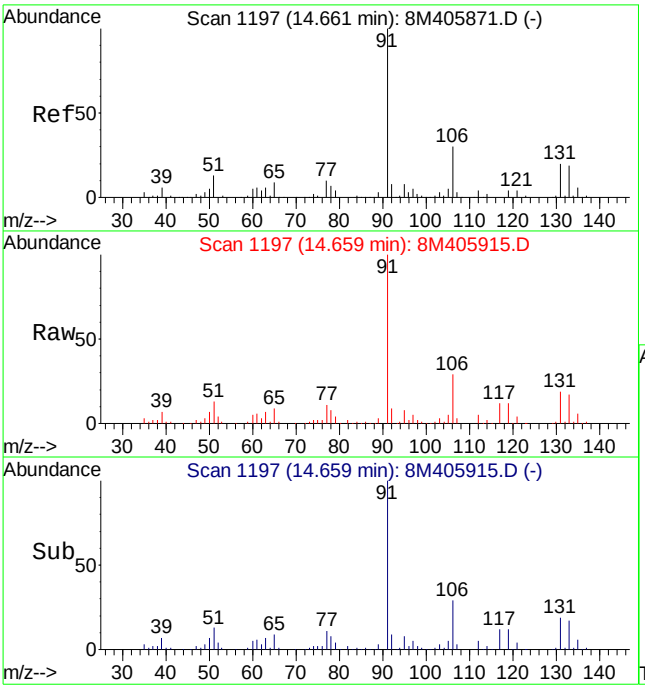


#70
Chlorobenzene
Concen: 19.74 ug/L
RT: 14.63 min Scan# 1194
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:112 Resp: 310079

Ion	Ratio	Lower	Upper
112	100		
77	79.9	47.6	111.0

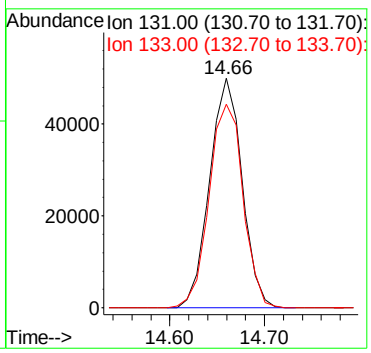


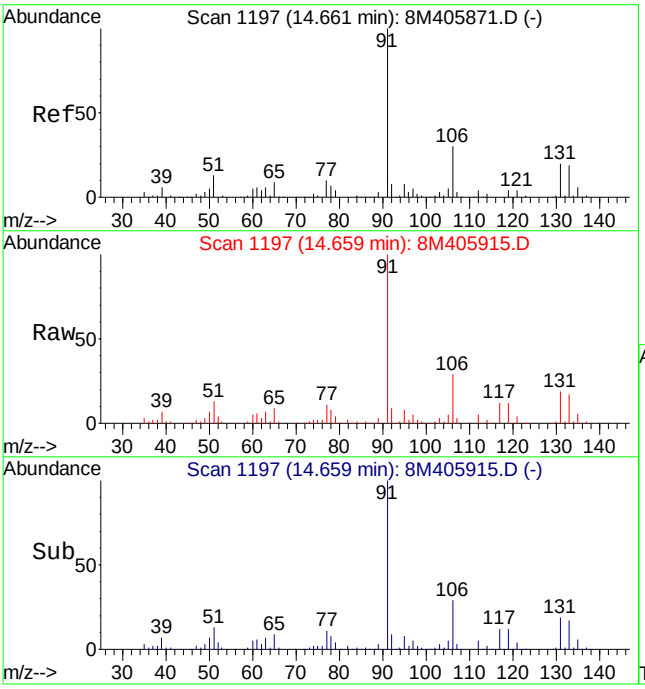


#71
1,1,1,2-Tetrachloroethane
Concen: 20.96 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:131 Resp: 119783

Ion	Ratio	Lower	Upper
131	100		
133	92.6	57.1	133.1

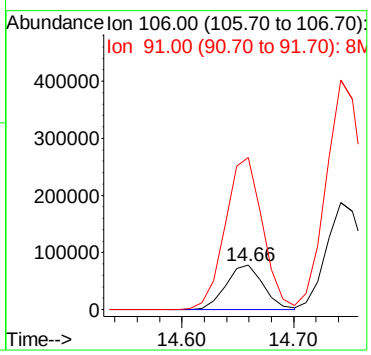


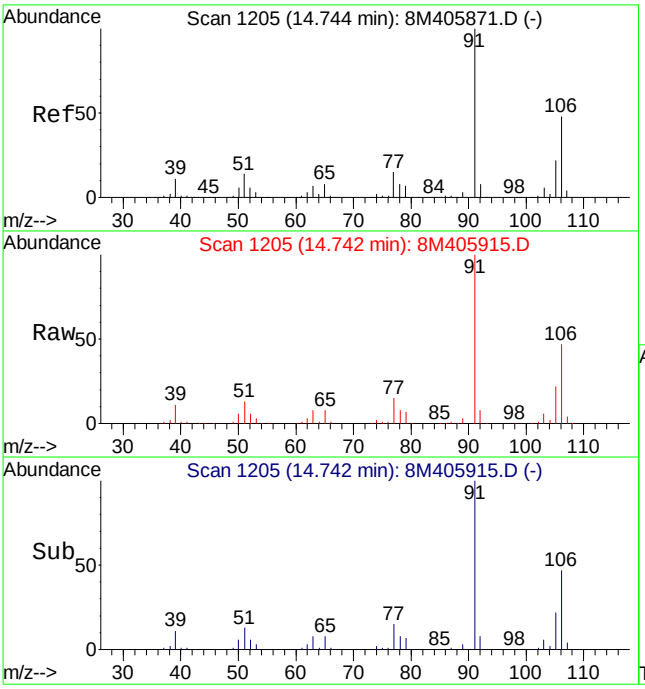


#72
Ethylbenzene
Concen: 20.50 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:106 Resp: 181191

Ion	Ratio	Lower	Upper
106	100		
91	342.4	199.7	466.1

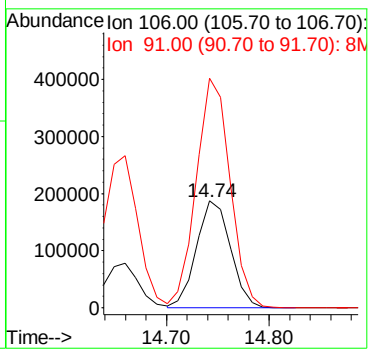


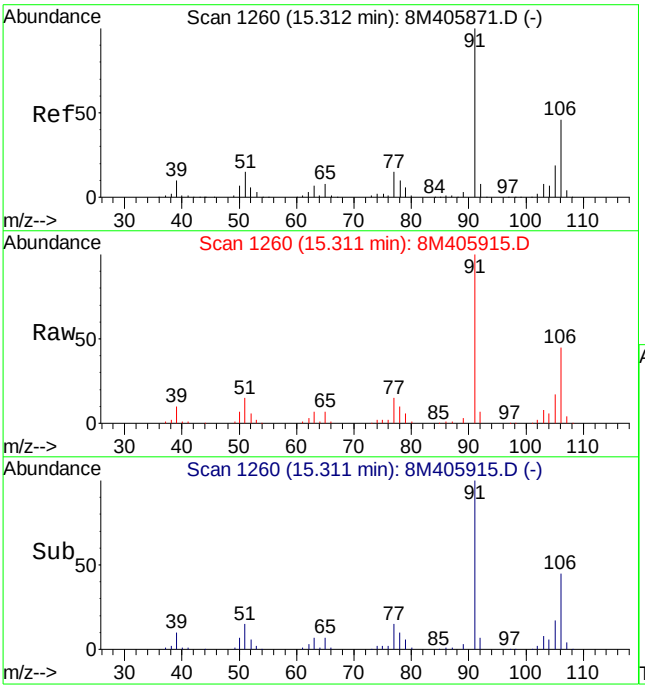


#73
m-,p-Xylene
Concen: 41.54 ug/L
RT: 14.74 min Scan# 1205
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:106 Resp: 432485

Ion	Ratio	Lower	Upper
106	100		
91	213.2	125.1	291.9

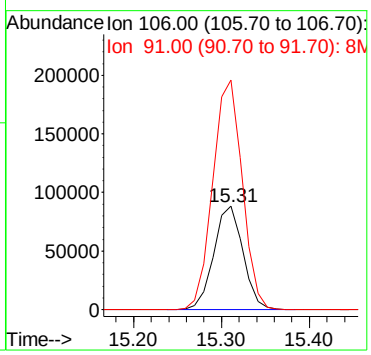


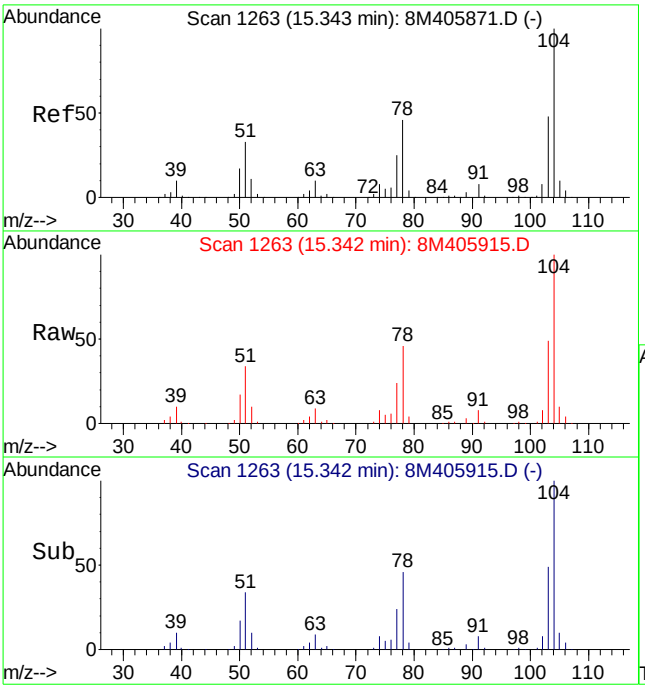


#74
o-Xylene
Concen: 20.23 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:106 Resp: 204290

Ion	Ratio	Lower	Upper
106	100		
91	223.9	134.3	313.5

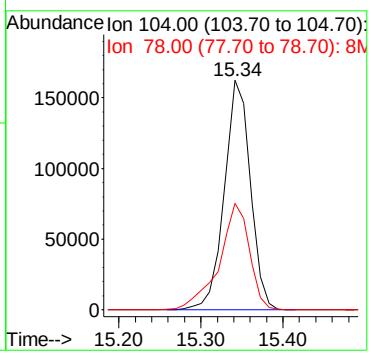


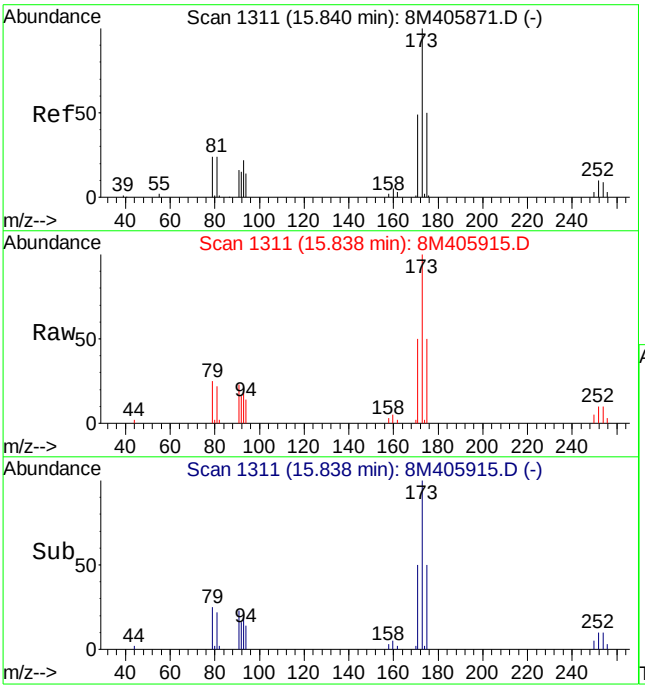


#75
Styrene
Concen: 22.04 ug/L
RT: 15.34 min Scan# 1263
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:104 Resp: 357777

Ion	Ratio	Lower	Upper
104	100		
78	53.9	32.9	76.7

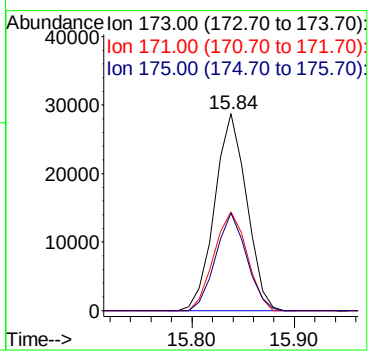


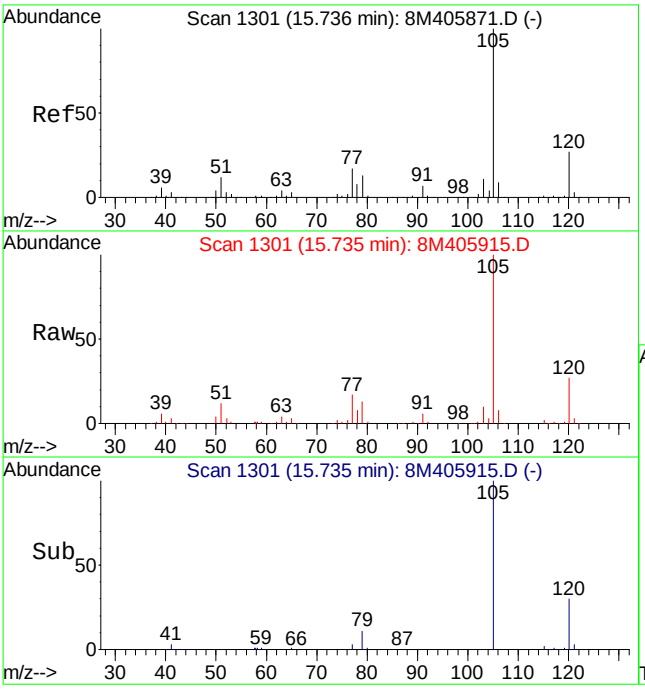


#76
Bromoform
Concen: 19.83 ug/L
RT: 15.84 min Scan# 1311
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:173 Resp: 62415

Ion	Ratio	Lower	Upper
173	100		
171	51.7	30.5	71.1
175	48.0	29.8	69.4

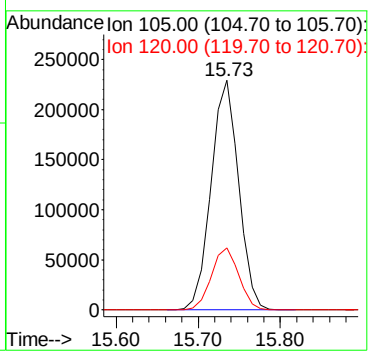


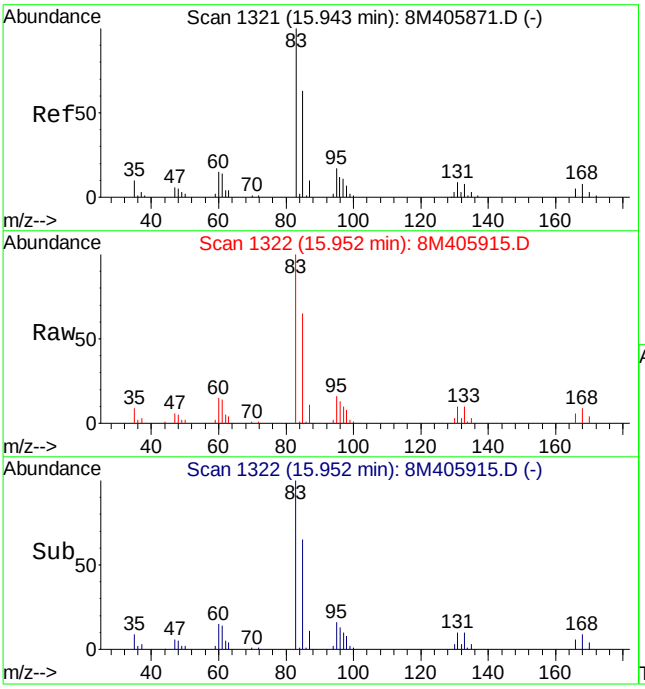


#77
Isopropylbenzene
Concen: 21.06 ug/L
RT: 15.73 min Scan# 1301
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:105 Resp: 533559

Ion	Ratio	Lower	Upper
105	100		
120	26.7	16.0	37.2

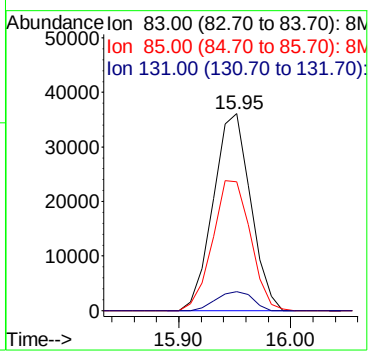


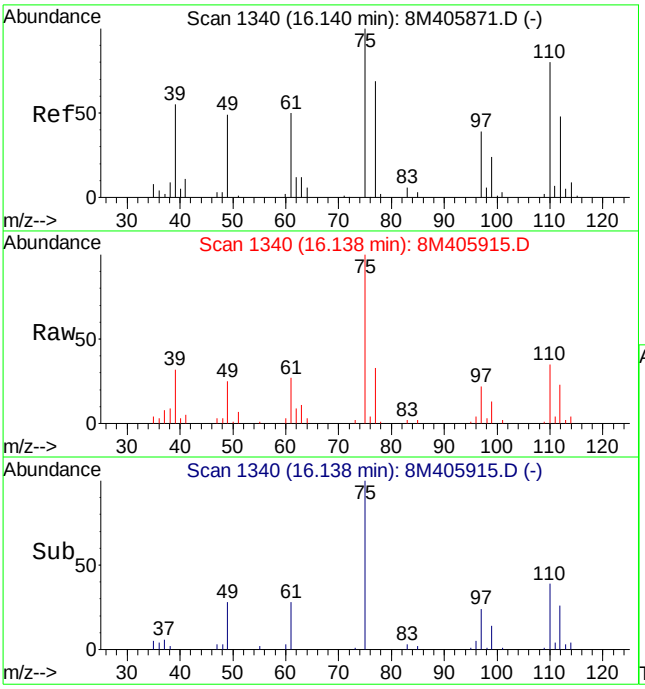


#79
1,1,2,2-Tetrachloroethane
Concen: 20.71 ug/L
RT: 15.95 min Scan# 1322
Delta R.T. 0.01 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 83 Resp: 83816

Ion	Ratio	Lower	Upper
83	100		
85	66.9	38.3	89.3
131	9.4	5.8	13.4

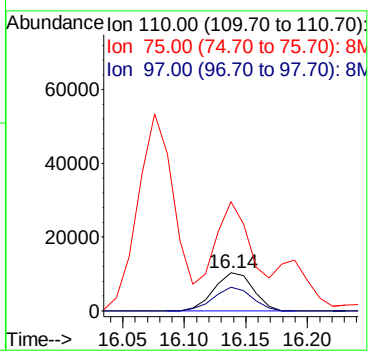


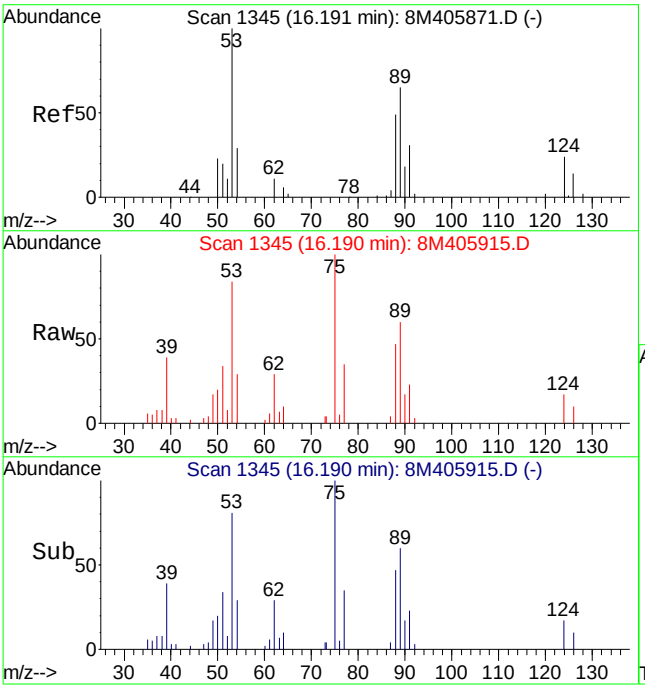


#81
1,2,3-Trichloropropane
Concen: 19.75 ug/L
RT: 16.14 min Scan# 1340
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:110 Resp: 22944

Ion	Ratio	Lower	Upper
110	100		
75	183.4	168.8	393.8
97	59.7	31.0	72.2

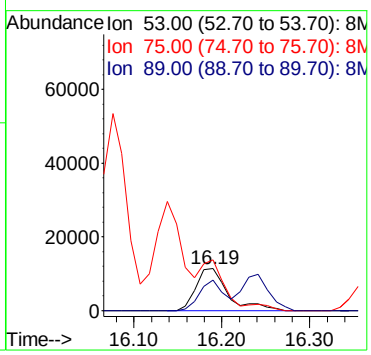


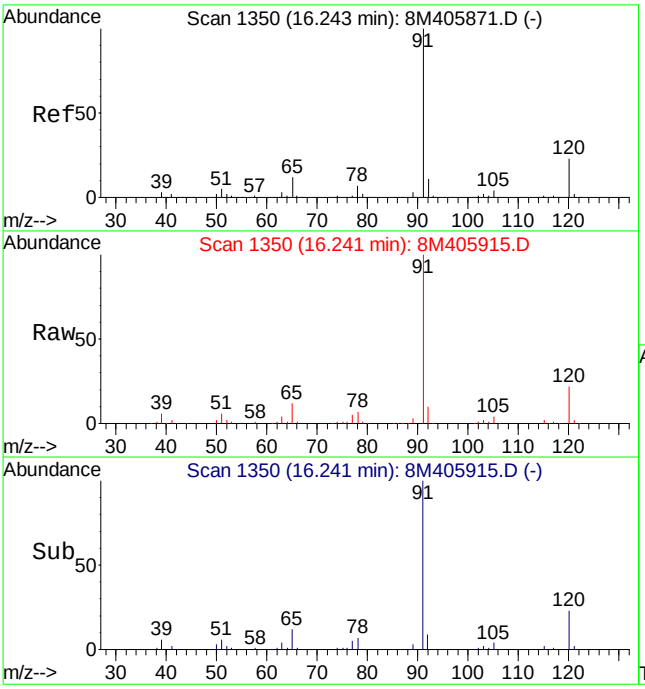


#82
trans-1,4-Dichloro-2-Butene
Concen: 20.03 ug/L
RT: 16.19 min Scan# 1345
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 53 Resp: 28923

Ion	Ratio	Lower	Upper
53	100		
75	145.5	58.5	136.5#
89	55.7	33.5	78.1

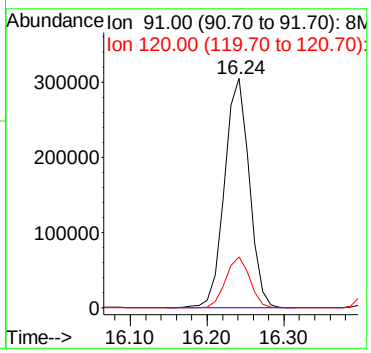


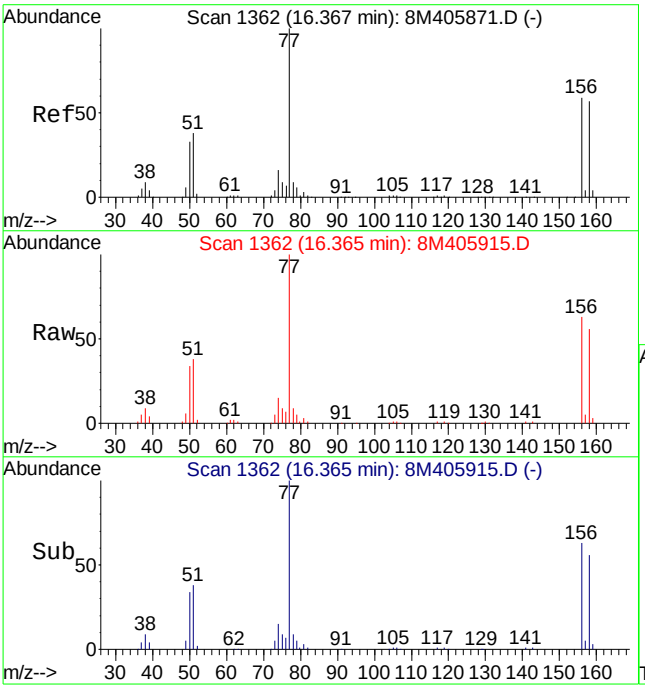


#83
n-Propylbenzene
Concen: 20.85 ug/L
RT: 16.24 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 91 Resp: 679414

Ion	Ratio	Lower	Upper
91	100		
120	21.7	13.1	30.5

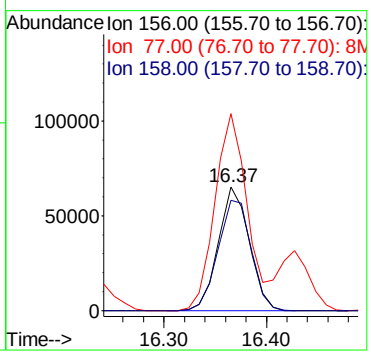


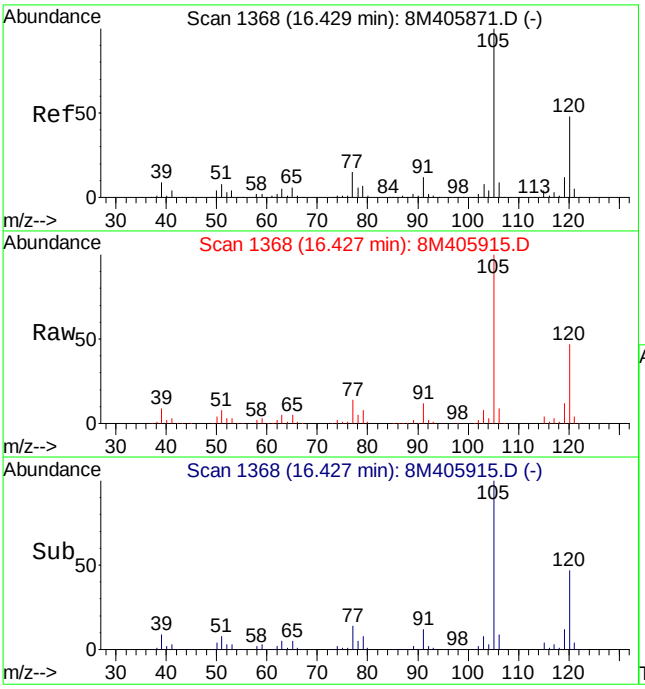


#84
Bromobenzene
Concen: 20.57 ug/L
RT: 16.37 min Scan# 1362
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:156 Resp: 136768

Ion	Ratio	Lower	Upper
156	100		
77	163.2	100.2	233.8
158	95.3	58.1	135.7

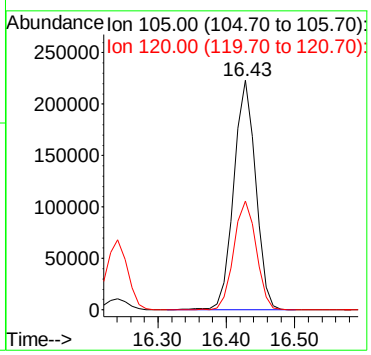


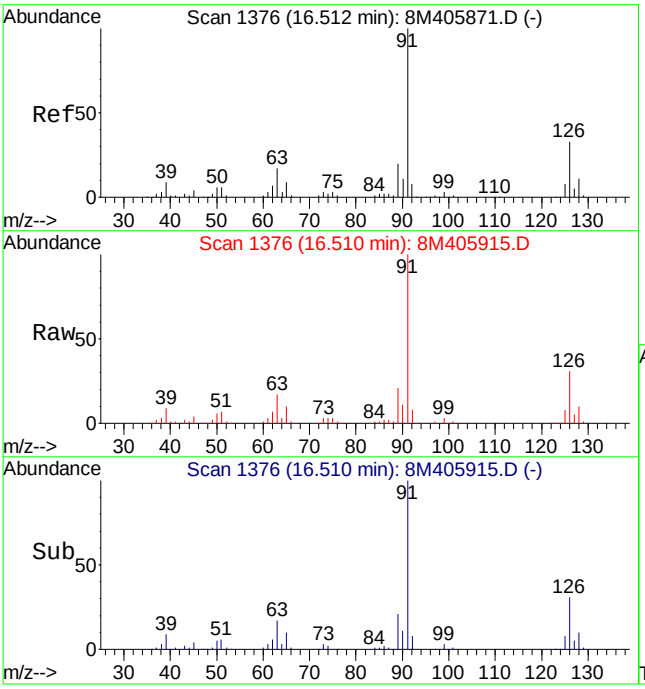


#85
1,3,5-Trimethylbenzene
Concen: 21.85 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:105 Resp: 496637

Ion	Ratio	Lower	Upper
105	100		
120	48.4	28.8	67.2

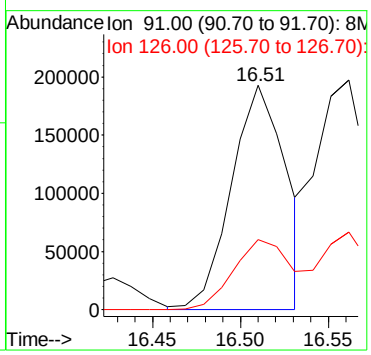


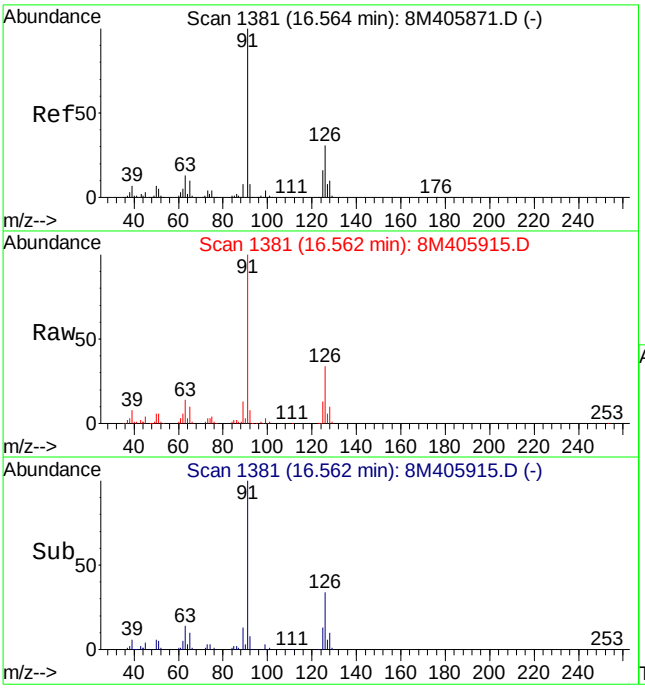


#86
2-Chlorotoluene
Concen: 20.26 ug/L
RT: 16.51 min Scan# 1376
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 91 Resp: 417040

Ion	Ratio	Lower	Upper
91	100		
126	31.8	19.4	45.4

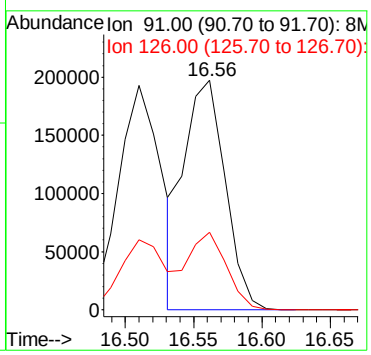


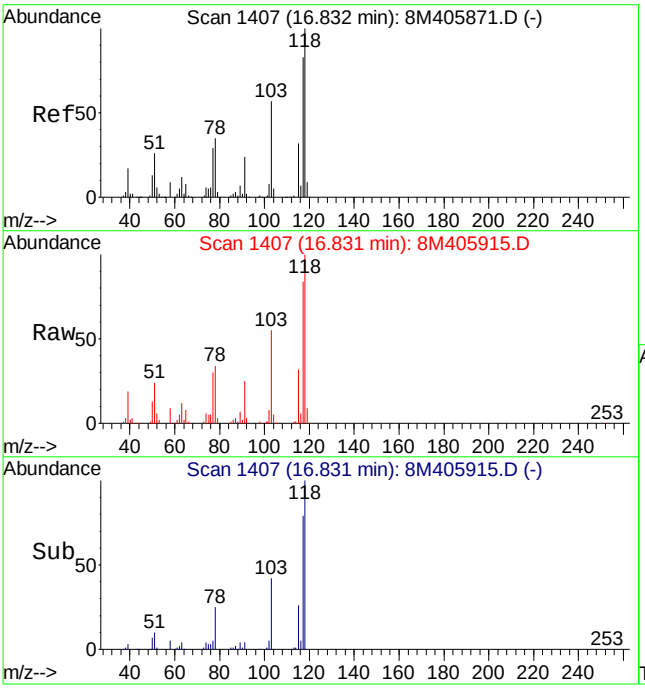


#87
4-Chlorotoluene
Concen: 19.74 ug/L
RT: 16.56 min Scan# 1381
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 91 Resp: 411489

Ion	Ratio	Lower	Upper
91	100		
126	33.1	19.7	45.9

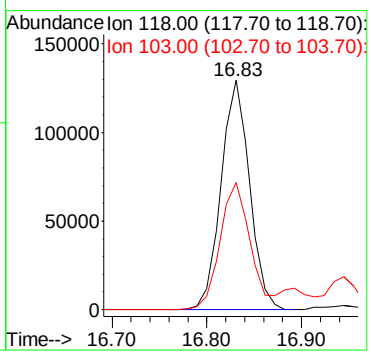


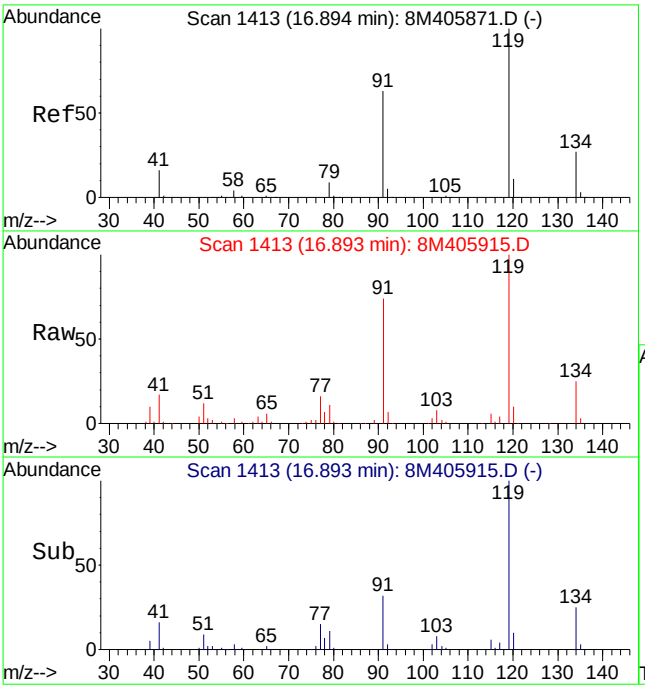


#88
a-Methylstyrene
Concen: 22.65 ug/L
RT: 16.83 min Scan# 1407
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:118 Resp: 273132

Ion	Ratio	Lower	Upper
118	100		
103	59.2	35.9	83.7

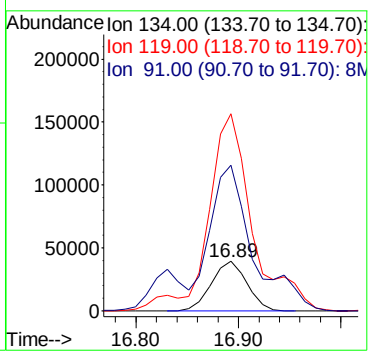


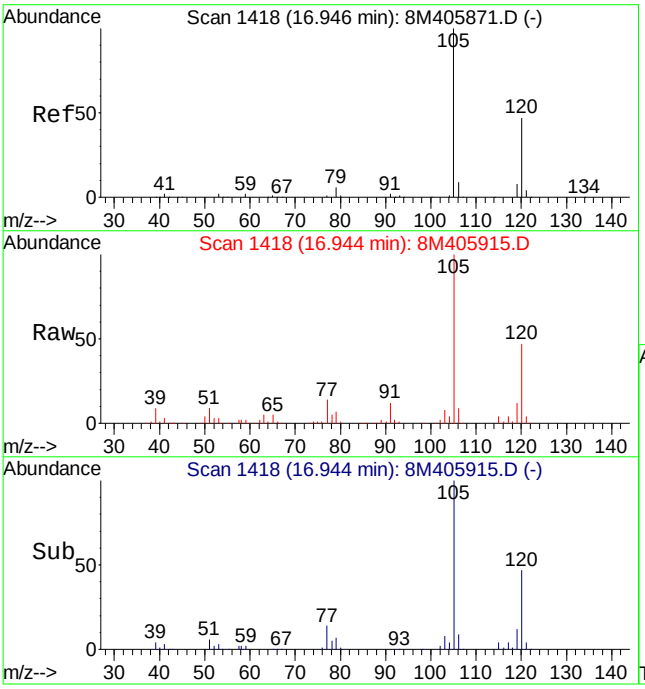


#89
tert-Butylbenzene
Concen: 20.36 ug/L
RT: 16.89 min Scan# 1413
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:134 Resp: 94287

Ion	Ratio	Lower	Upper
134	100		
119	498.0	293.9	685.7
91	357.6	214.9	501.3

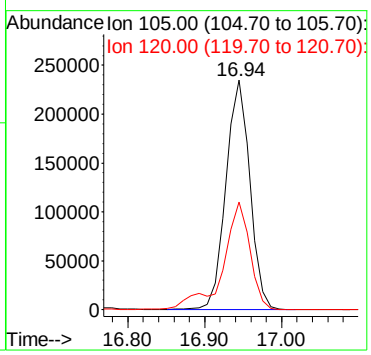


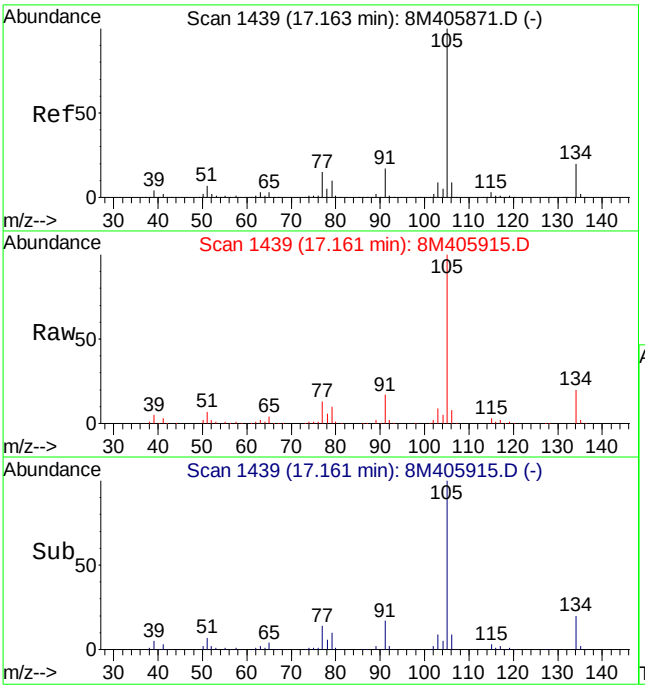


#90
1,2,4-Trimethylbenzene
Concen: 21.90 ug/L
RT: 16.94 min Scan# 1418
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:105 Resp: 507449

Ion	Ratio	Lower	Upper
105	100		
120	52.8	32.3	75.5

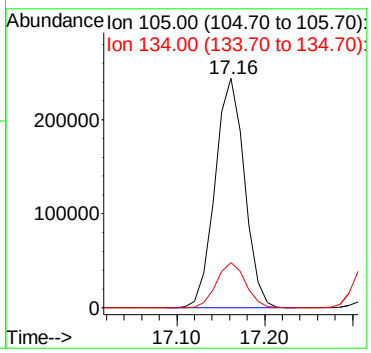


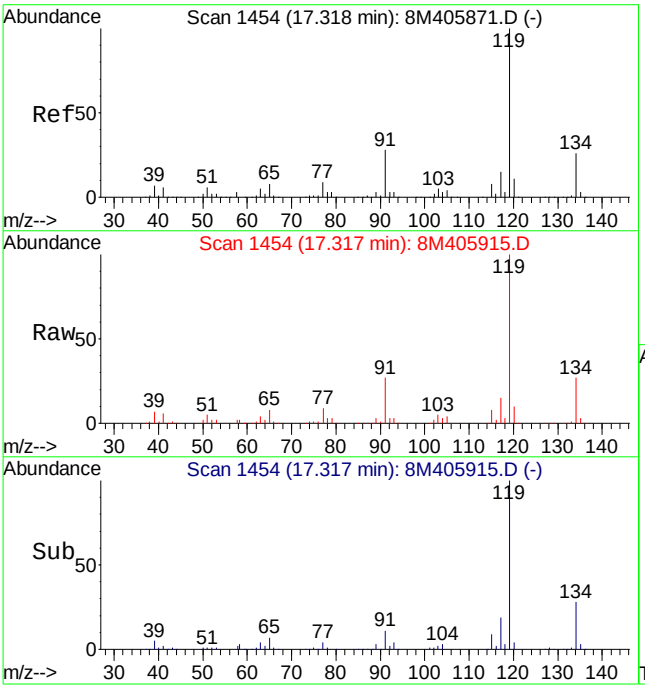


#91
sec-Butylbenzene
Concen: 21.02 ug/L
RT: 17.16 min Scan# 1439
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:105 Resp: 569290

Ion	Ratio	Lower	Upper
105	100		
134	19.5	11.8	27.4

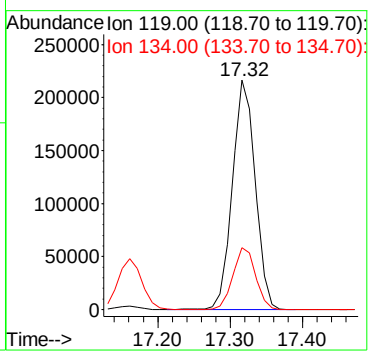


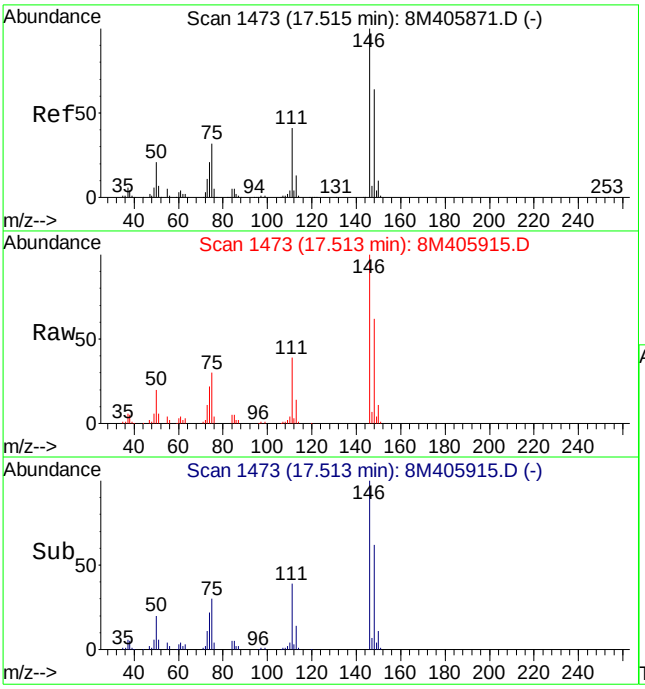


#92
p-Isopropyltoluene
Concen: 20.49 ug/L
RT: 17.32 min Scan# 1454
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:119 Resp: 482165

Ion	Ratio	Lower	Upper
119	100		
134	26.8	15.8	36.8

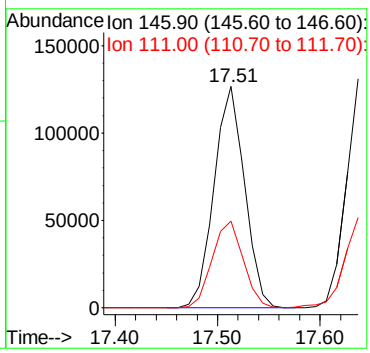


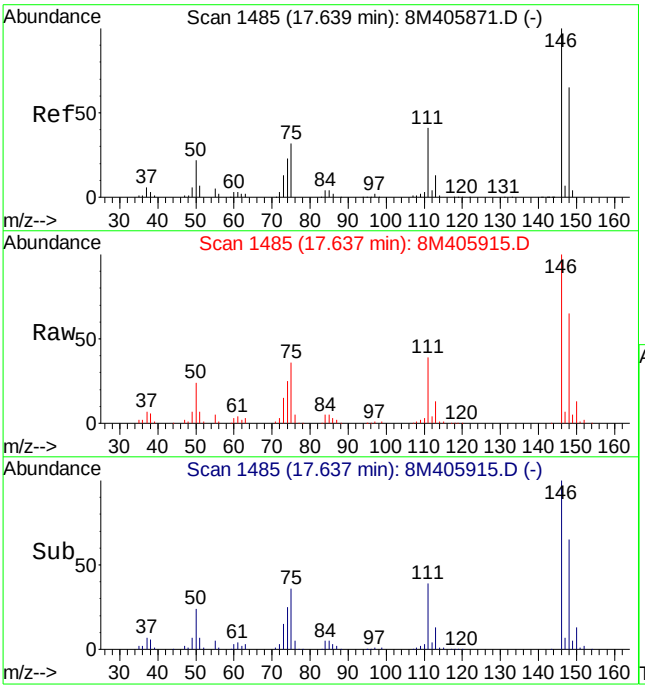


#93
1,3-Dichlorobenzene
Concen: 19.77 ug/L
RT: 17.51 min Scan# 1473
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:146 Resp: 261674

Ion	Ratio	Lower	Upper
146	100		
111	39.9	25.0	58.2

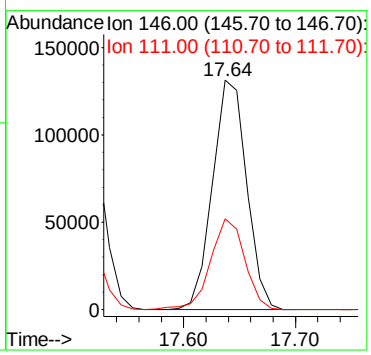


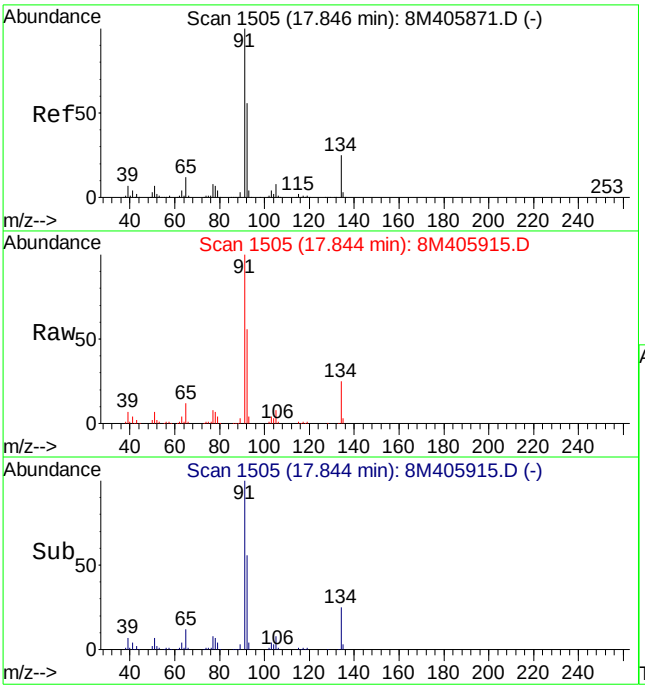


#94
1,4-Dichlorobenzene
Concen: 20.63 ug/L
RT: 17.64 min Scan# 1485
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:146 Resp: 278585

Ion	Ratio	Lower	Upper
146	100		
111	39.7	24.7	57.7

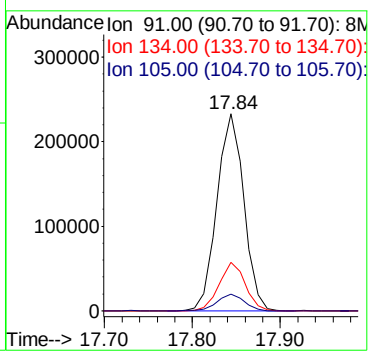


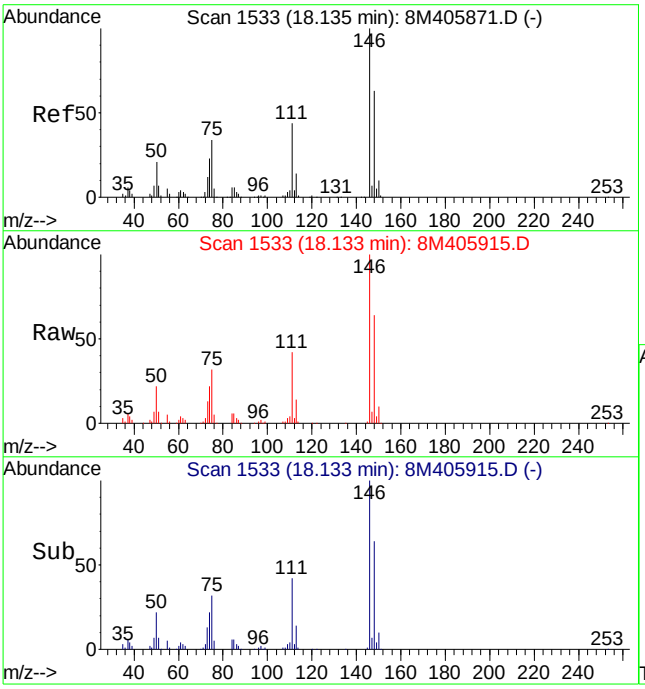


#95
n-Butylbenzene
Concen: 21.45 ug/L
RT: 17.84 min Scan# 1505
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 91 Resp: 495188

Ion	Ratio	Lower	Upper
91	100		
134	23.8	14.4	33.6
105	8.4	5.0	11.8

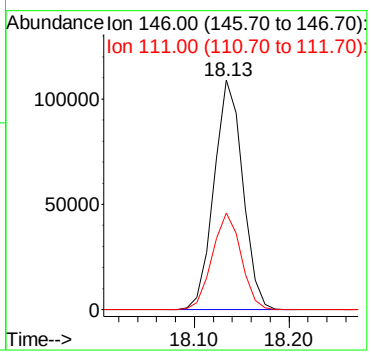


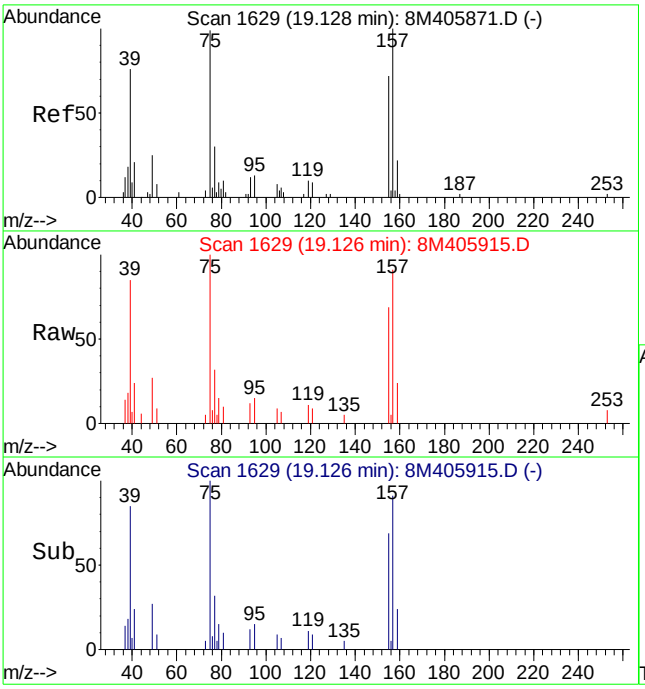


#96
1,2-Dichlorobenzene
Concen: 19.58 ug/L
RT: 18.13 min Scan# 1533
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:146 Resp: 231402

Ion	Ratio	Lower	Upper
146	100		
111	42.1	25.5	59.5

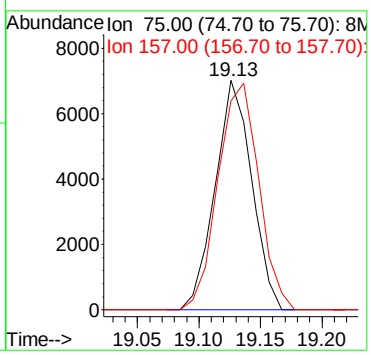


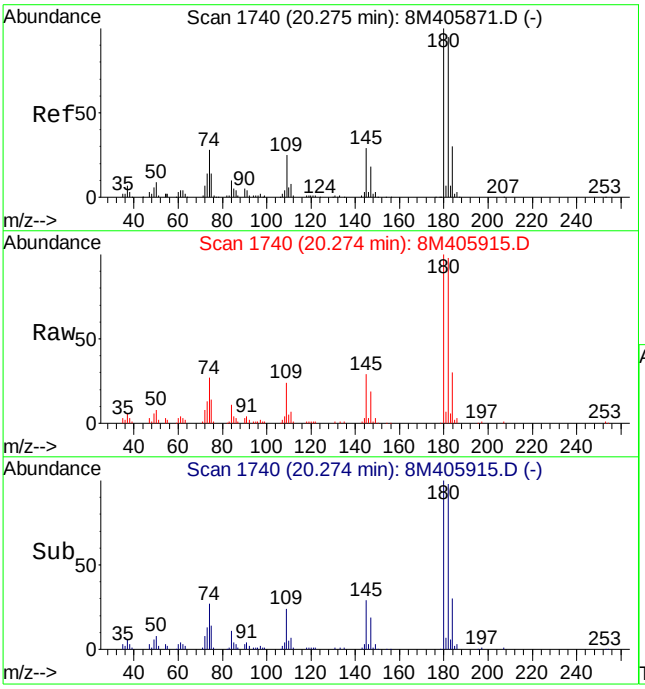


#97
1,2-Dibromo-3-Chloropropane
Concen: 20.23 ug/L
RT: 19.13 min Scan# 1629
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion: 75 Resp: 14478

Ion	Ratio	Lower	Upper
75	100		
157	110.3	61.0	142.4

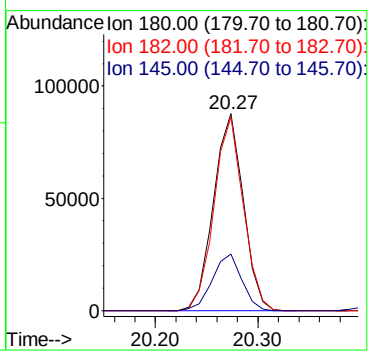


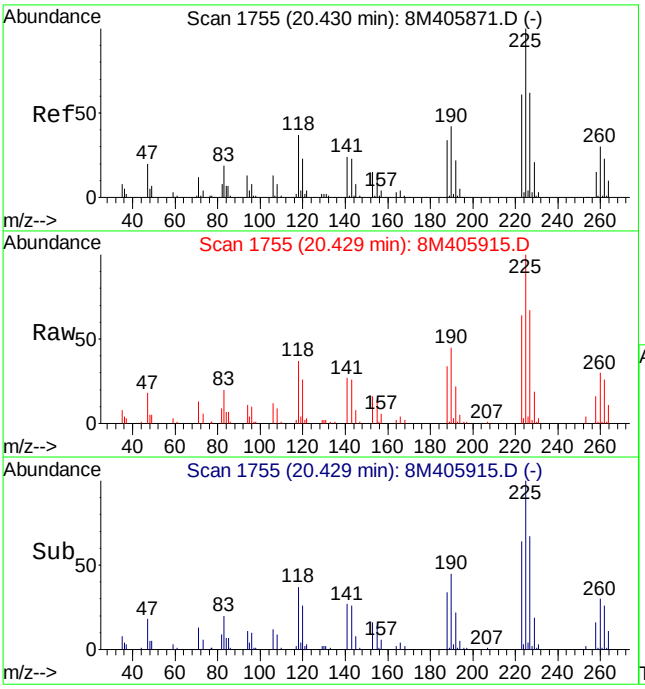


#98
1,2,4-Trichlorobenzene
Concen: 20.06 ug/L
RT: 20.27 min Scan# 1740
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:180 Resp: 177545

Ion	Ratio	Lower	Upper
180	100		
182	96.2	57.1	133.1
145	28.3	18.0	42.0

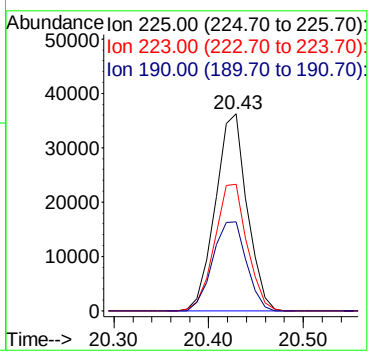


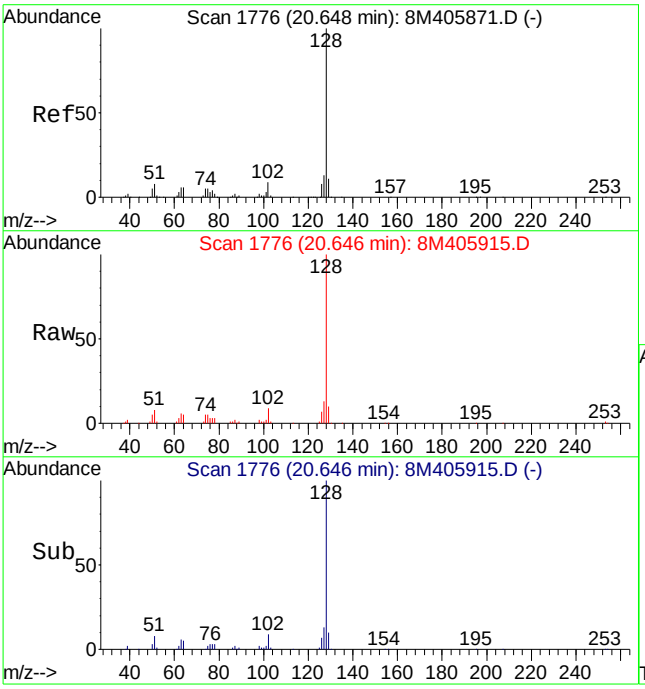


#99
Hexachlorobutadiene
Concen: 19.14 ug/L
RT: 20.43 min Scan# 1755
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:225 Resp: 84981

Ion	Ratio	Lower	Upper
225	100		
223	65.6	37.4	87.4
190	47.8	26.6	62.2

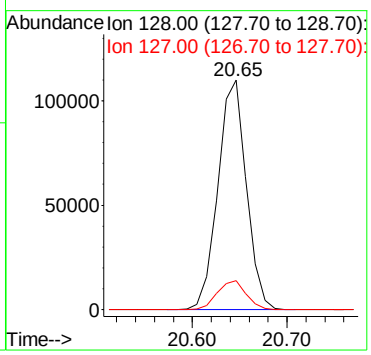


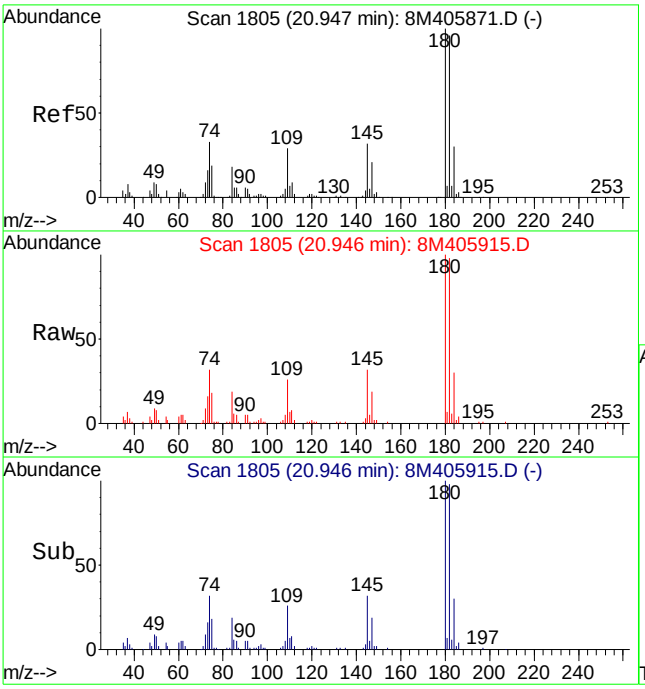


#100
Naphthalene
Concen: 19.79 ug/L
RT: 20.65 min Scan# 1776
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:128 Resp: 230939

Ion	Ratio	Lower	Upper
128	100		
127	12.8	8.0	18.6

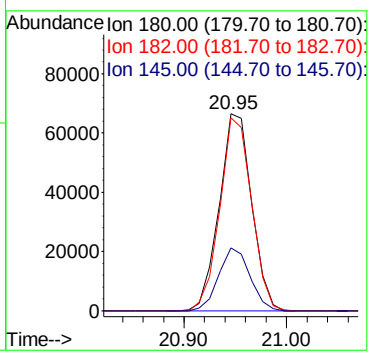




#101
1,2,3-Trichlorobenzene
Concen: 18.99 ug/L
RT: 20.95 min Scan# 1805
Delta R.T. -0.00 min
Lab File: 8M405915.D
Acq: 6 Jul 2015 18:24

Tgt Ion:180 Resp: 146190

Ion	Ratio	Lower	Upper
180	100		
182	95.8	58.3	135.9
145	30.7	18.2	42.4



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070615\8M405916.D Vial: 12
Acq On : 6 Jul 2015 18:53 Operator: ADC/ JDS
Sample : WG530076-03 20ug/L LCS2 STD 8260 Inst : HPMS8
Misc : 1,1 STD71359 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 07 10:09:04 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	613705	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	449930	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	243004	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	143474	25.1990	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.80%			
43) 1,2-Dichloroethane-d4	10.31	65	141751	25.4535	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 101.80%			
58) Toluene-d8	12.69	98	561731	25.2389	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 100.96%			
80) p-Bromofluorobenzene	16.08	95	214529	24.7103	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	149371	22.2049	ug/L	99
3) Chloromethane	3.62	50	251197	20.8414	ug/L	98
4) Vinyl Chloride	3.84	62	211319	22.7743	ug/L	100
5) 1,3-Butadiene	3.89	54	181723	24.6392	ug/L	91
6) Bromomethane	4.73	94	86911	20.9954	ug/L	99
7) Chloroethane	4.90	64	97239	24.3560	ug/L	99
8) Trichlorofluoromethane	5.39	101	201285	21.5549	ug/L	99
9) Diethyl ether	5.91	59	377261	103.2585	ug/L	99
10) Isoprene	5.95	67	172720	24.6615	ug/L	99
11) Acrolein	6.14	56	24633	96.7136	ug/L	93
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	115500	22.5307	ug/L	100
13) Acetone	6.25	43	16082	21.3299	ug/L	97
14) 1,1-Dichloroethene	6.47	61	188822	21.0664	ug/L	100
15) Tert-Butyl Alcohol	6.58	59	36043	194.8539	ug/L	98
16) Dimethyl Sulfide	6.74	62	142772	29.2311	ug/L	98
17) Iodomethane	6.99	142	94638	21.9082	ug/L	99
18) Methyl acetate	7.01	43	44175	14.7549	ug/L	99
19) Methylene Chloride	7.26	84	118644	20.9893	ug/L	98
20) Carbon Disulfide	7.30	76	332072	20.6055	ug/L	98
21) Acrylonitrile	7.44	53	23637	21.3363	ug/L	95
22) Methyl Tert Butyl Ether	7.47	73	226906	21.9117	ug/L	97
23) trans-1,2-Dichloroethene	7.71	61	189502	21.8674	ug/L	95
24) n-Hexane	7.79	57	174286	20.3295	ug/L	100
25) Diisopropyl ether	8.14	45	2275797	108.0527	ug/L	99
26) Vinyl Acetate	8.30	43	189298	40.8722	ug/L	100
27) 1,1-Dichloroethane	8.33	63	239676	21.3090	ug/L	99
28) Ethyl-Tert-Butyl ether	8.70	59	1659843	101.5786	ug/L	100
29) 2-Butanone	8.89	43	26670	20.9429	ug/L	99
30) Propionitrile	8.99	54	39719	105.2271	ug/L	99
31) 2,2-Dichloropropane	9.11	77	205390	22.8708	ug/L	97
32) cis-1,2-Dichloroethene	9.17	96	131886	22.0314	ug/L	97
33) Chloroform	9.38	83	226803	22.1668	ug/L	99
34) 1-Bromopropane	9.52	122	27460	27.8446	ug/L	93
35) Bromochloromethane	9.61	130	65321	22.0919	ug/L	100
36) Tetrahydrofuran	9.63	42	87334	102.6628	ug/L	97
38) 1,1,1-Trichloroethane	9.91	97	220538	22.7088	ug/L	95
39) Cyclohexane	9.95	56	229874	20.1892	ug/L	100
40) 1,1-Dichloropropene	10.11	75	182891	23.4973	ug/L	99
41) Tert-Amyl-Methyl ether	10.21	73	1284957	105.7638	ug/L	100
42) Carbon Tetrachloride	10.26	117	195653	22.2433	ug/L	100

(#) = qualifier out of range (m) = manual integration
8M405916.D 8260WT.M Tue Jul 07 10:09:04 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070615\8M405916.D Vial: 12
Acq On : 6 Jul 2015 18:53 Operator: ADC/ JDS
Sample : WG530076-03 20ug/L LCS2 STD 8260 Inst : HPMS8
Misc : 1,1 STD71359 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 07 10:09:04 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

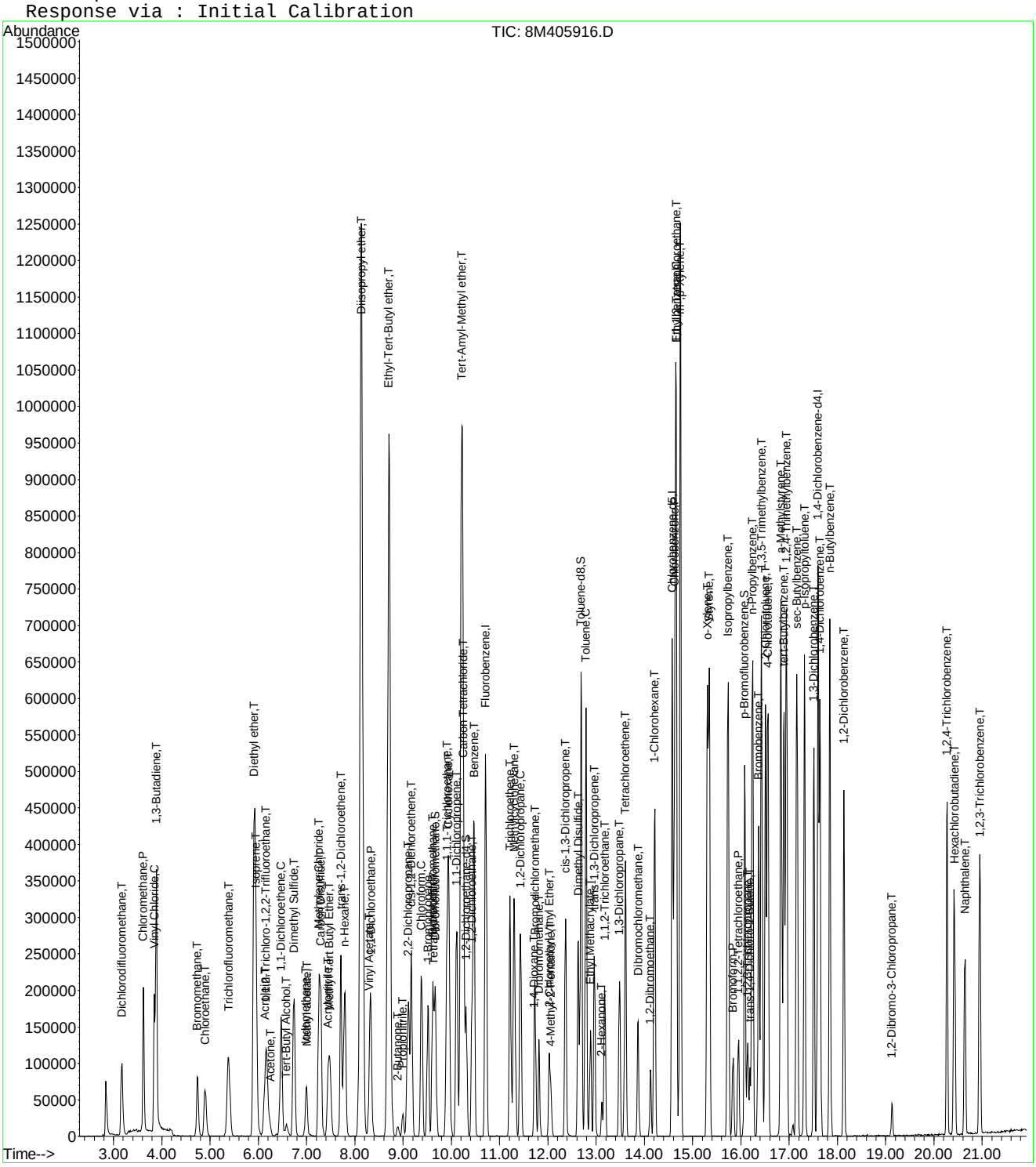
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	151986	21.8468	ug/L		98
46)	Benzene	10.47	78	493676	22.1224	ug/L		100
47)	Trichloroethene	11.22	130	129413	23.3102	ug/L		97
48)	Methylcyclohexane	11.30	83	196687	21.7332	ug/L		99
49)	1,2-Dichloropropane	11.43	63	137373	22.1910	ug/L		98
50)	Bromodichloromethane	11.73	83	167906	21.9670	ug/L		100
51)	1,4-Dioxane	11.71	88	4058	198.2279	ug/L		88
52)	Dibromomethane	11.82	93	58709	20.5186	ug/L		98
53)	2-Chloroethyl Vinyl Ether	12.03	63	52836	19.5294	ug/L		99
54)	4-Methyl-2-Pentanone	12.06	58	23331	20.2671	ug/L		98
55)	cis-1,3-Dichloropropene	12.36	75	194300	22.9209	ug/L		98
56)	Dimethyl Disulfide	12.63	79	103149	21.8559	ug/L		93
59)	Toluene	12.79	91	547849	22.1116	ug/L		98
60)	Ethyl Methacrylate	12.88	69	101299	22.1670	ug/L		99
62)	trans-1,3-Dichloropropene	12.96	75	151324	19.7995	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	79848	20.8511	ug/L		99
64)	2-Hexanone	13.12	58	21192	19.1542	ug/L	#	100
65)	1,3-Dichloropropane	13.48	76	142091	21.1772	ug/L		98
66)	Tetrachloroethene	13.61	164	108943	21.5224	ug/L		99
67)	Dibromochloromethane	13.87	129	105164	18.9388	ug/L		99
68)	1,2-Dibromoethane	14.12	107	74986	20.3461	ug/L		99
69)	1-Chlorohexane	14.22	91	187172	21.6436	ug/L		99
70)	Chlorobenzene	14.63	112	326759	19.6689	ug/L		100
71)	1,1,1,2-Tetrachloroethane	14.66	131	122235	20.2329	ug/L		100
72)	Ethylbenzene	14.66	106	189926	20.3213	ug/L		93
73)	m-,p-Xylene	14.74	106	458659	41.6692	ug/L		98
74)	o-Xylene	15.31	106	213916	20.0355	ug/L		99
75)	Styrene	15.34	104	371136	21.6274	ug/L		98
76)	Bromoform	15.84	173	62129	18.6942	ug/L		94
77)	Isopropylbenzene	15.74	105	562194	20.9904	ug/L		100
79)	1,1,2,2-Tetrachloroethane	15.95	83	86599	21.1180	ug/L		98
81)	1,2,3-Trichloropropane	16.14	110	23434	19.9023	ug/L		49
82)	trans-1,4-Dichloro-2-Buten	16.19	53	29080	19.8774	ug/L	#	74
83)	n-Propylbenzene	16.24	91	714894	21.6453	ug/L		99
84)	Bromobenzene	16.37	156	141959	21.0653	ug/L		99
85)	1,3,5-Trimethylbenzene	16.43	105	522784	22.6959	ug/L		100
86)	2-Chlorotoluene	16.51	91	431951	20.7108	ug/L		90
87)	4-Chlorotoluene	16.56	91	428763	20.2962	ug/L		92
88)	a-Methylstyrene	16.83	118	286674	23.4589	ug/L		98
89)	tert-Butylbenzene	16.89	134	99170	21.1258	ug/L		97
90)	1,2,4-Trimethylbenzene	16.94	105	534691	22.7725	ug/L		98
91)	sec-Butylbenzene	17.16	105	608407	22.1655	ug/L		100
92)	p-Isopropyltoluene	17.32	119	513977	21.5475	ug/L		98
93)	1,3-Dichlorobenzene	17.51	146	271756	20.2587	ug/L		97
94)	1,4-Dichlorobenzene	17.64	146	288904	21.1089	ug/L		99
95)	n-Butylbenzene	17.84	91	527718	22.5608	ug/L		100
96)	1,2-Dichlorobenzene	18.13	146	234642	19.5894	ug/L		99
97)	1,2-Dibromo-3-Chloropropan	19.13	75	14360	19.8038	ug/L		89
98)	1,2,4-Trichlorobenzene	20.27	180	182754	20.3702	ug/L		99
99)	Hexachlorobutadiene	20.43	225	89446	19.8839	ug/L		97
100)	Naphthalene	20.65	128	235872	19.9432	ug/L		99
101)	1,2,3-Trichlorobenzene	20.96	180	151234	19.3853	ug/L		99

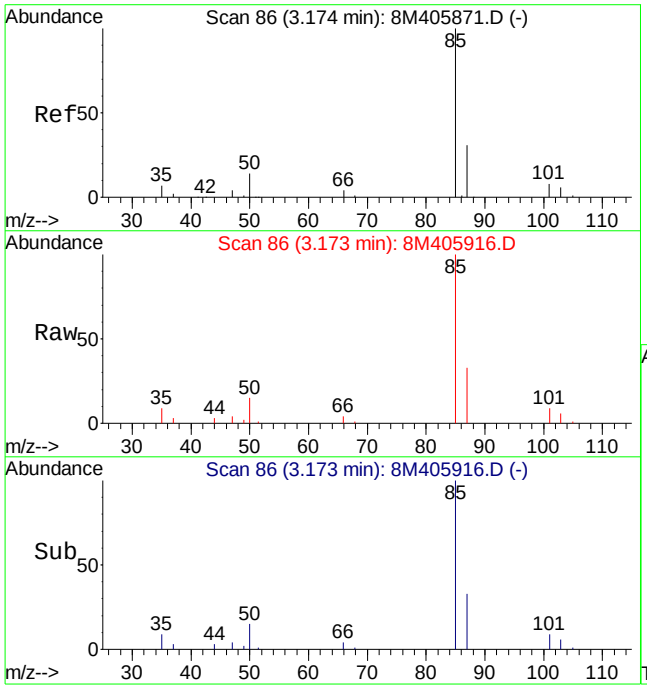
(#) = qualifier out of range (m) = manual integration
8M405916.D 8260WT.M Tue Jul 07 10:09:04 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\070615\8M405916.D Vial: 12
Acq On : 6 Jul 2015 18:53 Operator: ADC/ JDS
Sample : WG530076-03 20ug/L LCS2 STD 8260 Inst : HPMS8
Misc : 1,1 STD71359 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 7 10:09 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 07-02-15 HPMS 8
Last Update : Fri Jul 03 13:27:47 2015
Response via : Initial Calibration

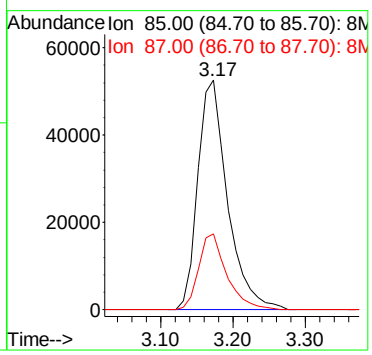


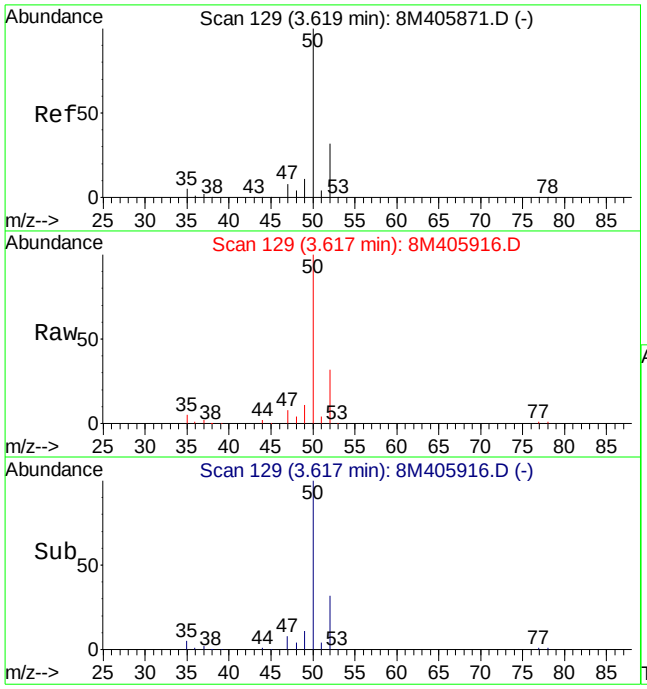


#2
Dichlorodifluoromethane
Concen: 22.20 ug/L
RT: 3.17 min Scan# 86
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 85 Resp: 149371

Ion	Ratio	Lower	Upper
85	100		
87	31.2	19.2	44.8

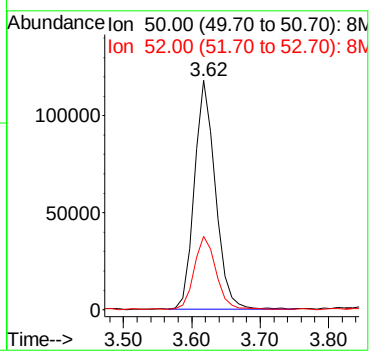


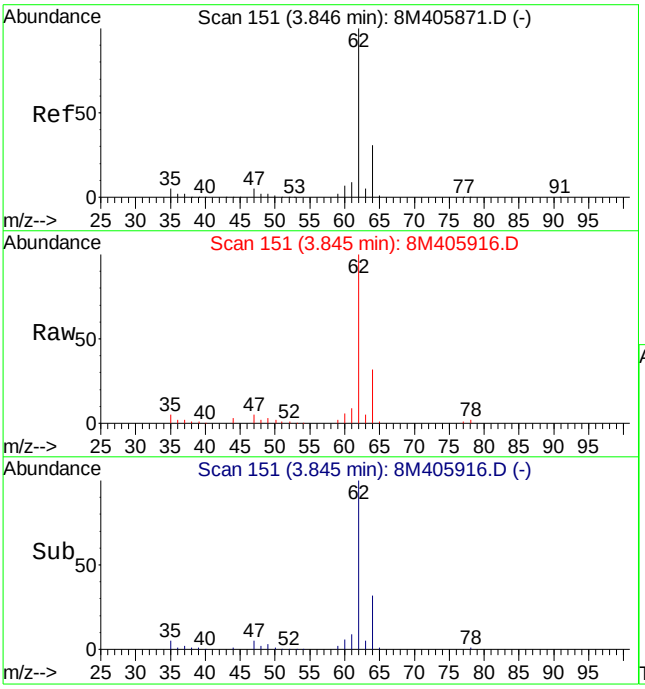


#3
Chloromethane
Concen: 20.84 ug/L
RT: 3.62 min Scan# 129
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 50 Resp: 251197

Ion	Ratio	Lower	Upper
50	100		
52	33.0	19.2	44.8

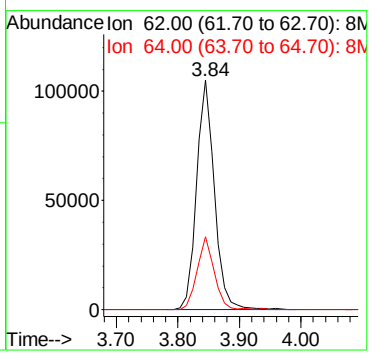


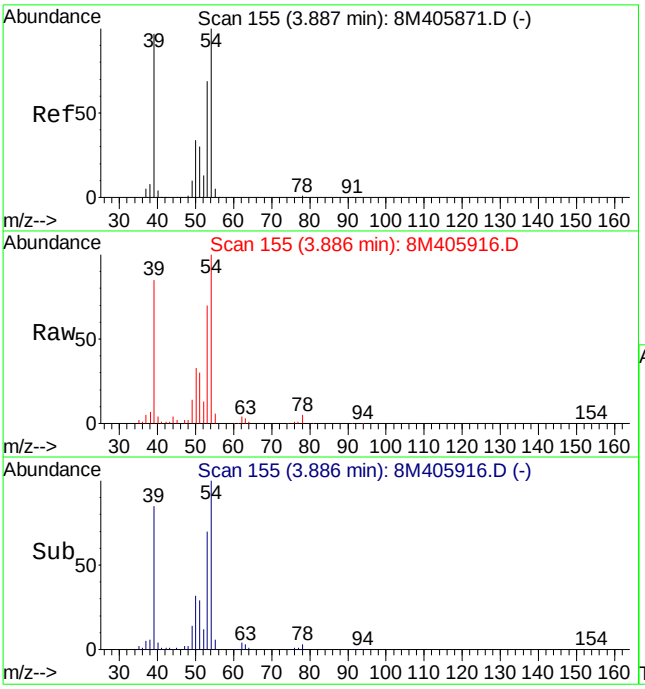


#4
Vinyl Chloride
Concen: 22.77 ug/L
RT: 3.84 min Scan# 151
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 62 Resp: 211319

Ion	Ratio	Lower	Upper
62	100		
64	30.5	18.2	42.6

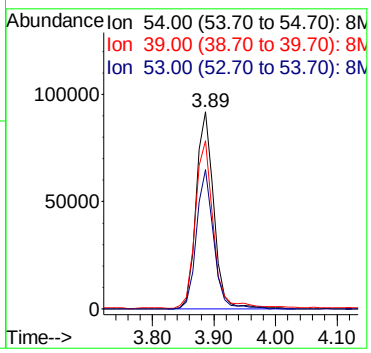


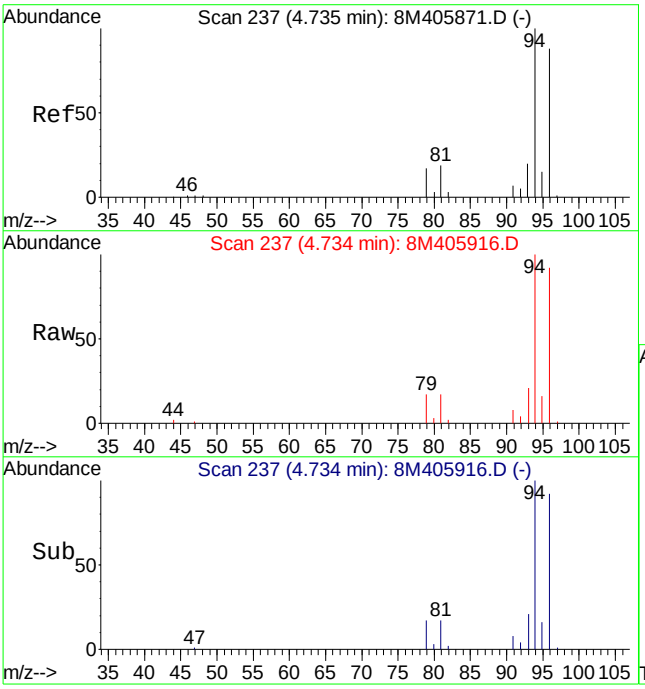


#5
1,3-Butadiene
Concen: 24.64 ug/L
RT: 3.89 min Scan# 155
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 54 Resp: 181723

Ion	Ratio	Lower	Upper
54	100		
39	88.3	60.8	142.0
53	68.8	42.4	99.0

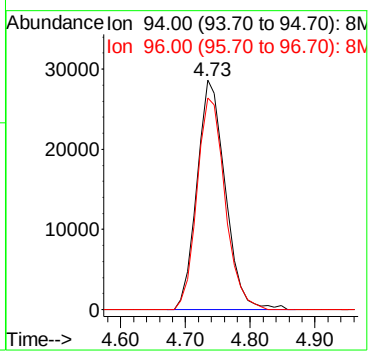


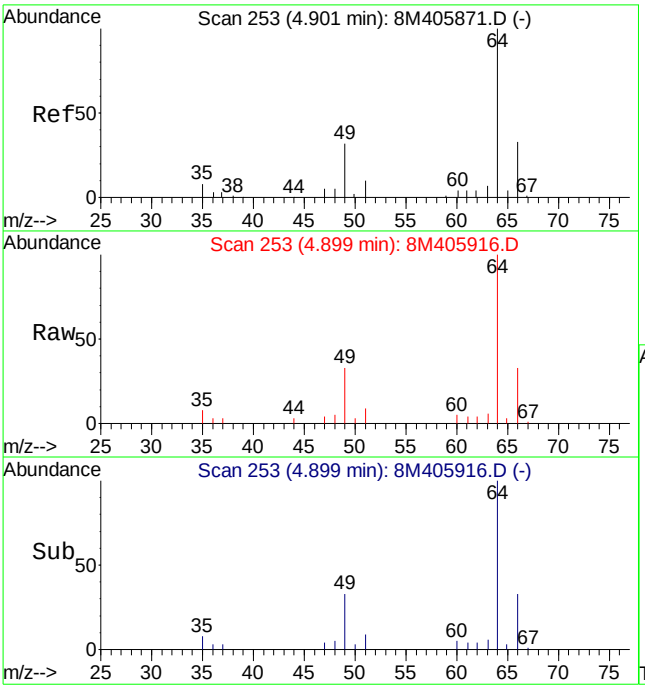


#6
Bromomethane
Concen: 21.00 ug/L
RT: 4.73 min Scan# 237
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 94 Resp: 86911

Ion	Ratio	Lower	Upper
94	100		
96	91.4	55.6	129.8

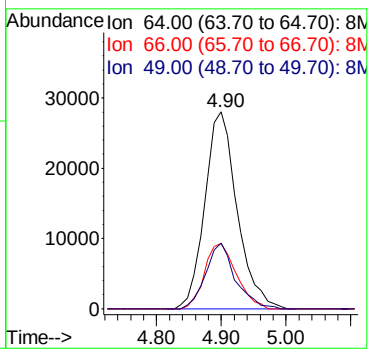


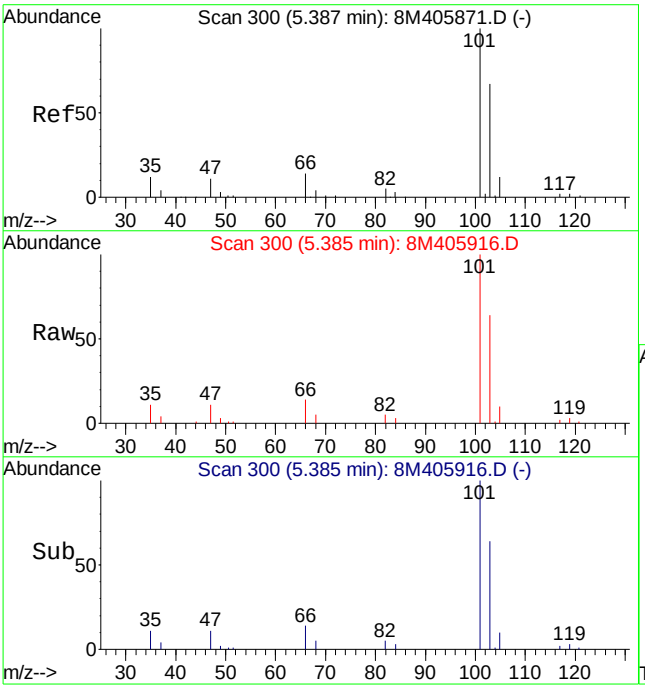


#7
Chloroethane
Concen: 24.36 ug/L
RT: 4.90 min Scan# 253
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 64 Resp: 97239

Ion	Ratio	Lower	Upper
64	100		
66	32.4	19.0	44.4
49	30.6	18.5	43.1

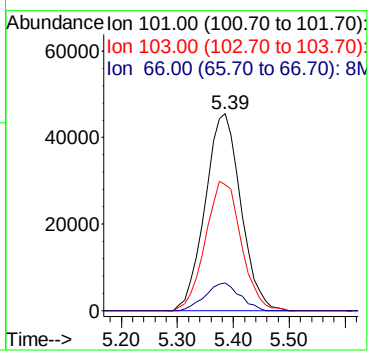


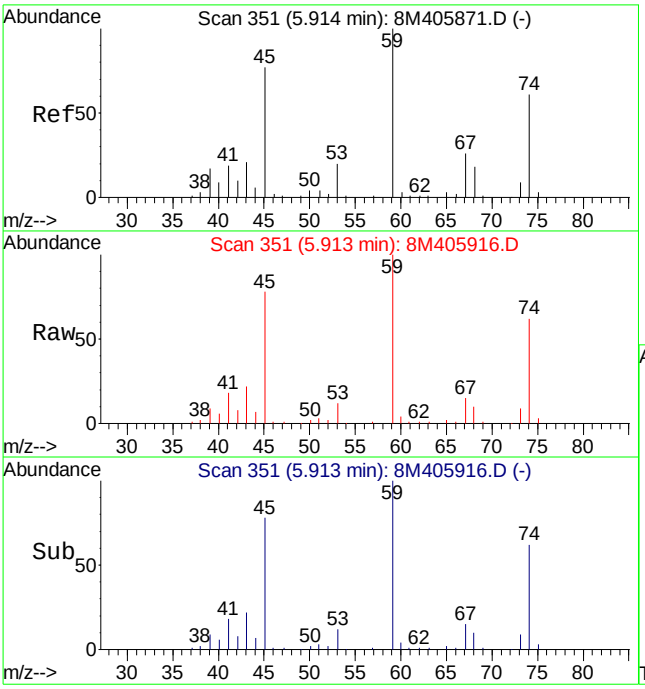


#8
Trichlorofluoromethane
Concen: 21.55 ug/L
RT: 5.39 min Scan# 300
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:101 Resp: 201285

Ion	Ratio	Lower	Upper
101	100		
103	65.7	39.7	92.7
66	13.5	8.5	19.9

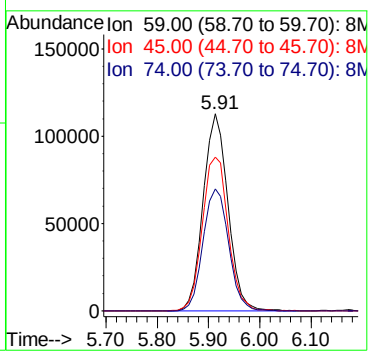


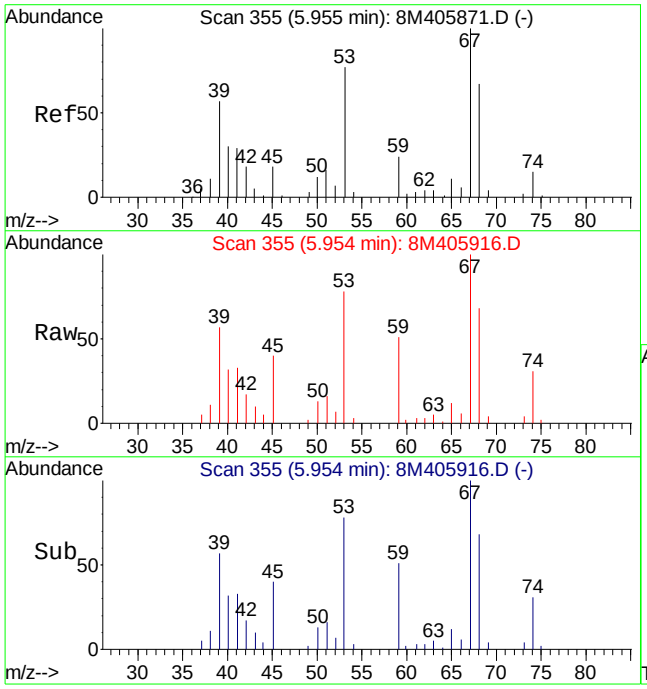


#9
Diethyl ether
Concen: 103.26 ug/L
RT: 5.91 min Scan# 351
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 59 Resp: 377261

Ion	Ratio	Lower	Upper
59	100		
45	81.8	49.3	115.1
74	63.9	38.6	90.2

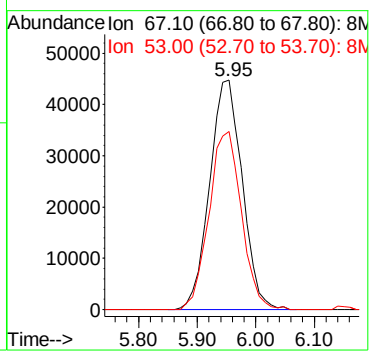


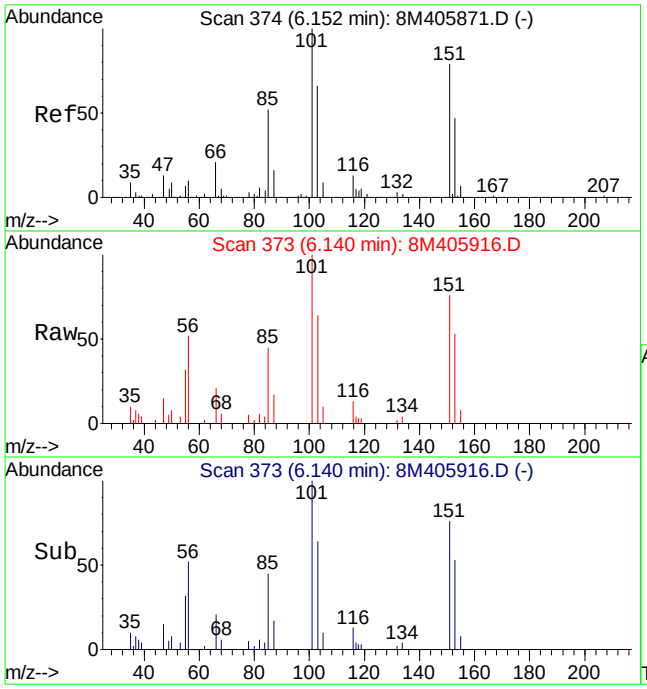


#10
Isoprene
Concen: 24.66 ug/L
RT: 5.95 min Scan# 355
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 67 Resp: 172720

Ion	Ratio	Lower	Upper
67	100		
53	77.3	46.9	109.5

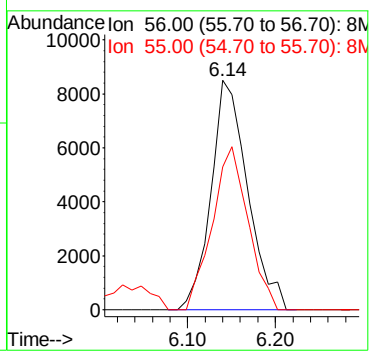


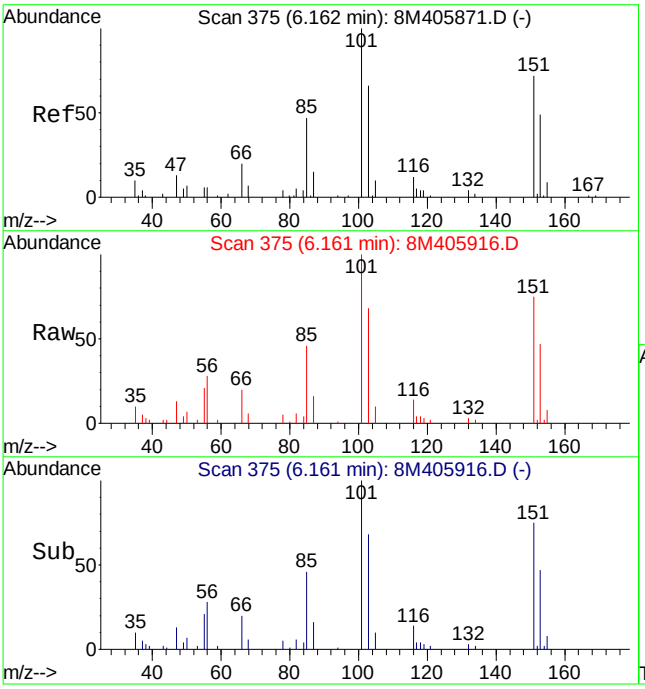


#11
Acrolein
Concen: 96.71 ug/L
RT: 6.14 min Scan# 373
Delta R.T. -0.01 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 56 Resp: 24633

Ion	Ratio	Lower	Upper
56	100		
55	69.4	45.2	105.6

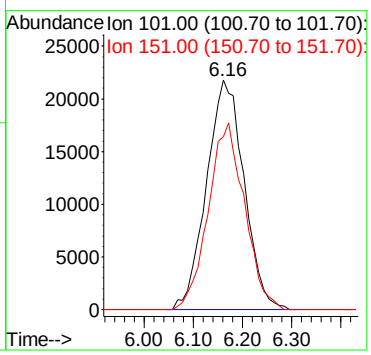


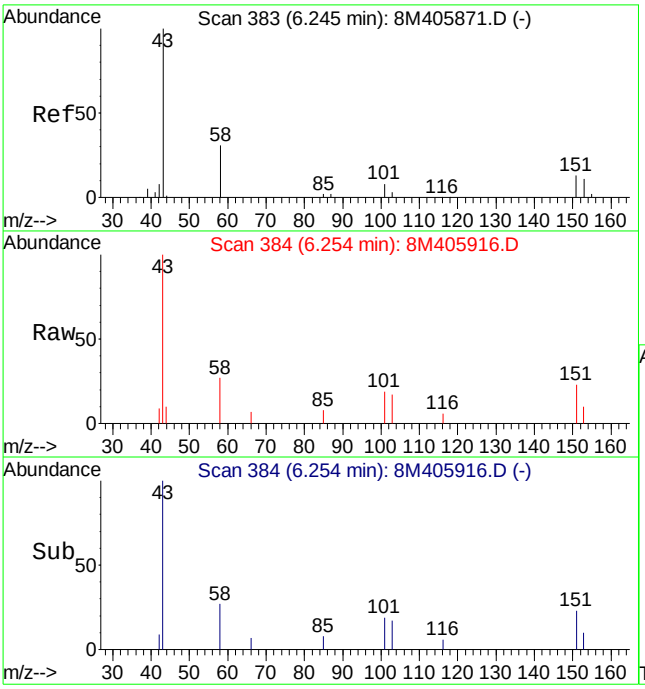


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 22.53 ug/L
RT: 6.16 min Scan# 375
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:101 Resp: 115500

Ion	Ratio	Lower	Upper
101	100		
151	78.5	38.1	118.1

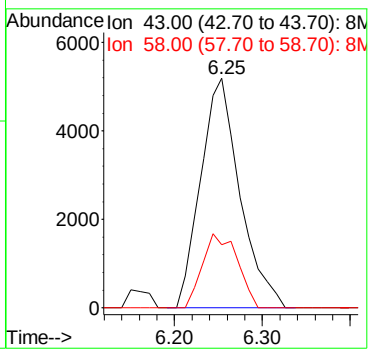


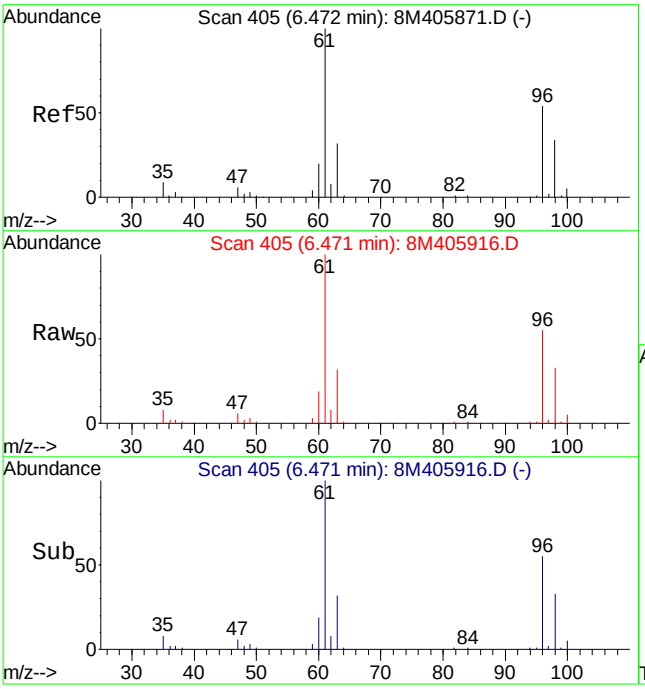


#13
Acetone
Concen: 21.33 ug/L
RT: 6.25 min Scan# 384
Delta R.T. 0.01 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 43 Resp: 16082

Ion	Ratio	Lower	Upper
43	100		
58	28.7	16.4	38.2

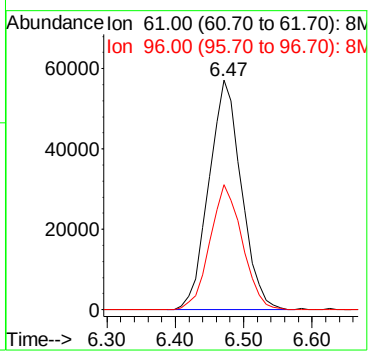


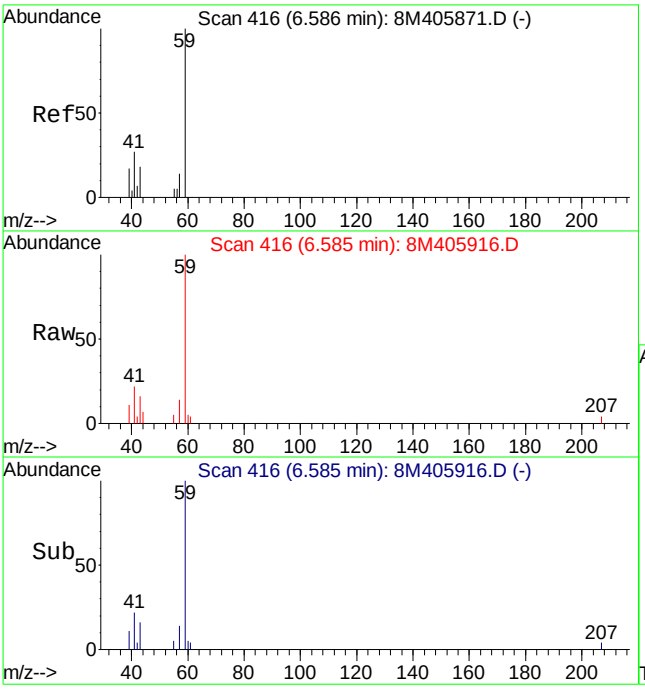


#14
1,1-Dichloroethene
Concen: 21.07 ug/L
RT: 6.47 min Scan# 405
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 61 Resp: 188822

Ion	Ratio	Lower	Upper
61	100		
96	54.1	32.3	75.3

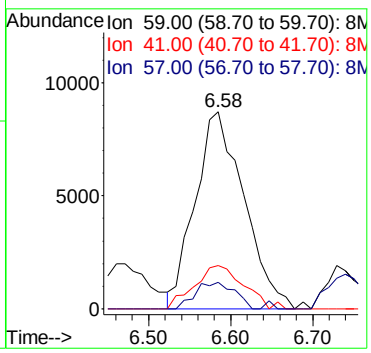


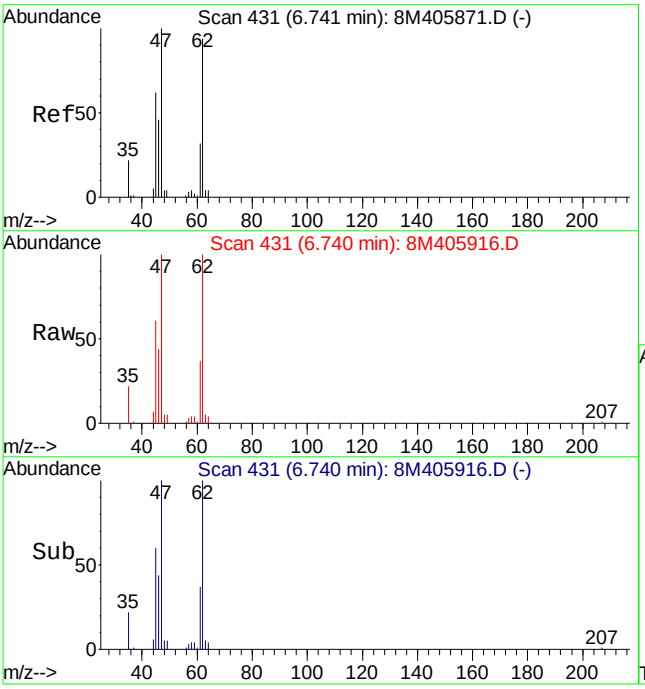


#15
Tert-Butyl Alcohol
Concen: 194.85 ug/L
RT: 6.58 min Scan# 416
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 59 Resp: 36043

Ion	Ratio	Lower	Upper
59	100		
41	22.1	14.2	33.0
57	10.8	6.5	15.3

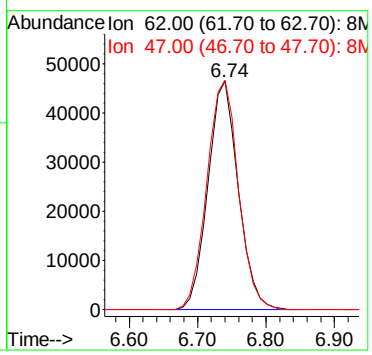


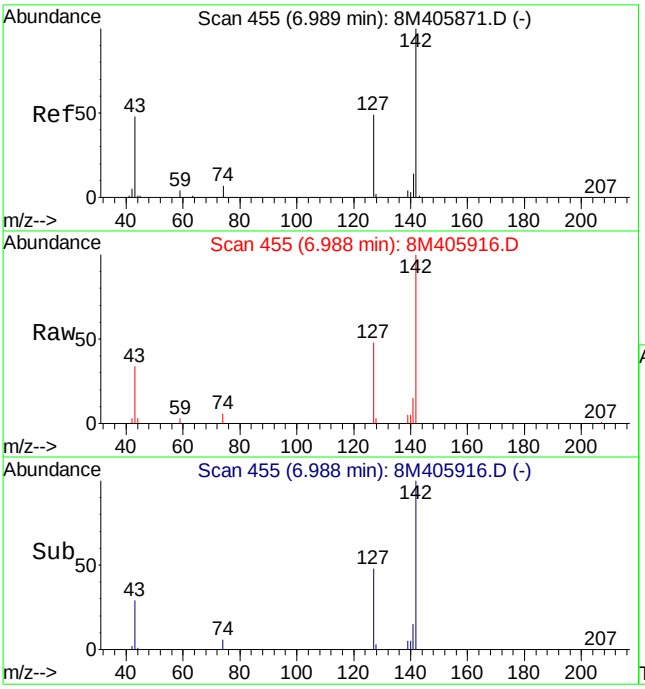


#16
Dimethyl Sulfide
Concen: 29.23 ug/L
RT: 6.74 min Scan# 431
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 62 Resp: 142772

Ion	Ratio	Lower	Upper
62	100		
47	104.6	64.3	149.9

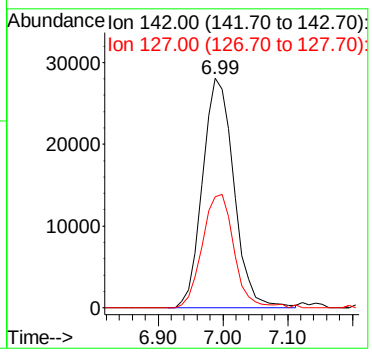


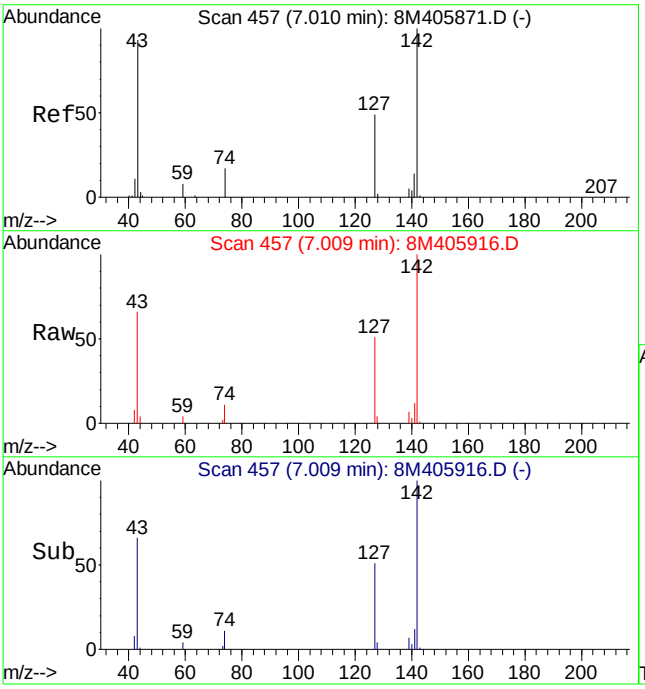


#17
Iodomethane
Concen: 21.91 ug/L
RT: 6.99 min Scan# 455
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:142 Resp: 94638

Ion	Ratio	Lower	Upper
142	100		
127	50.1	29.6	69.0

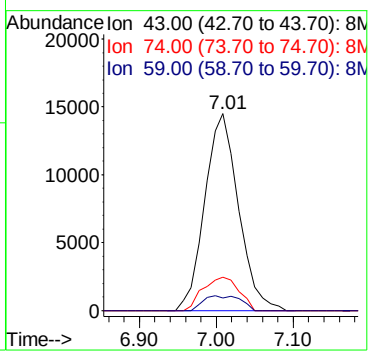


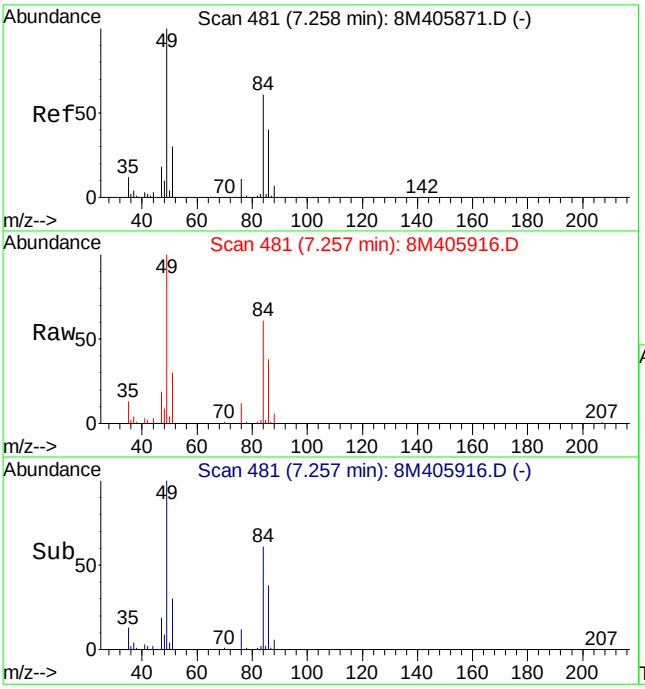


#18
Methyl acetate
Concen: 14.75 ug/L
RT: 7.01 min Scan# 457
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 43 Resp: 44175

Ion	Ratio	Lower	Upper
43	100		
74	18.0	11.2	26.2
59	8.3	4.7	11.1

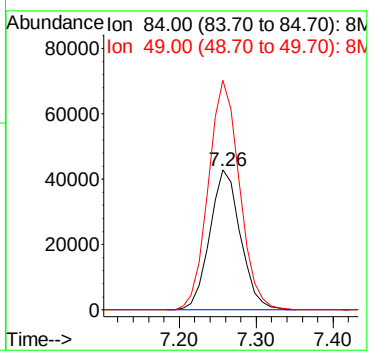


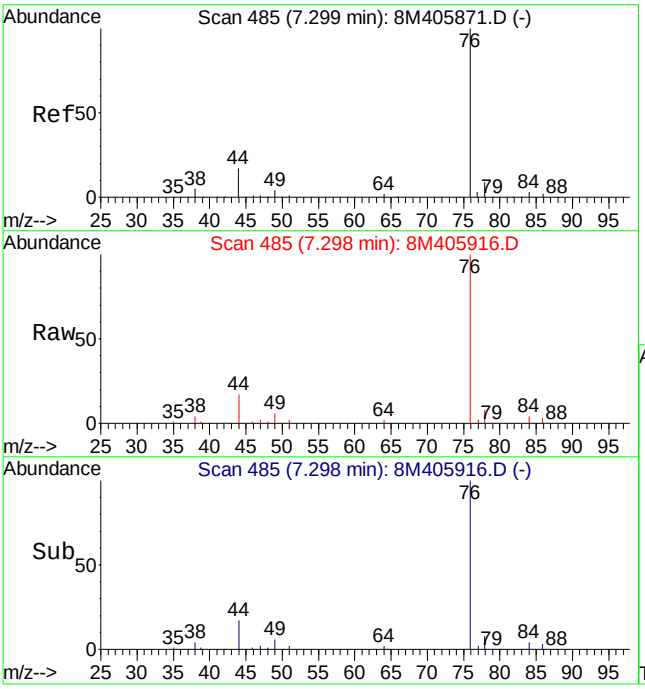


#19
Methylene Chloride
Concen: 20.99 ug/L
RT: 7.26 min Scan# 481
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 84 Resp: 118644

Ion	Ratio	Lower	Upper
84	100		
49	166.6	98.6	230.2

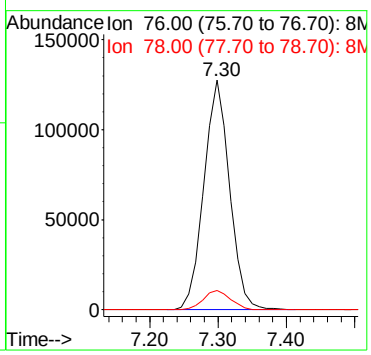


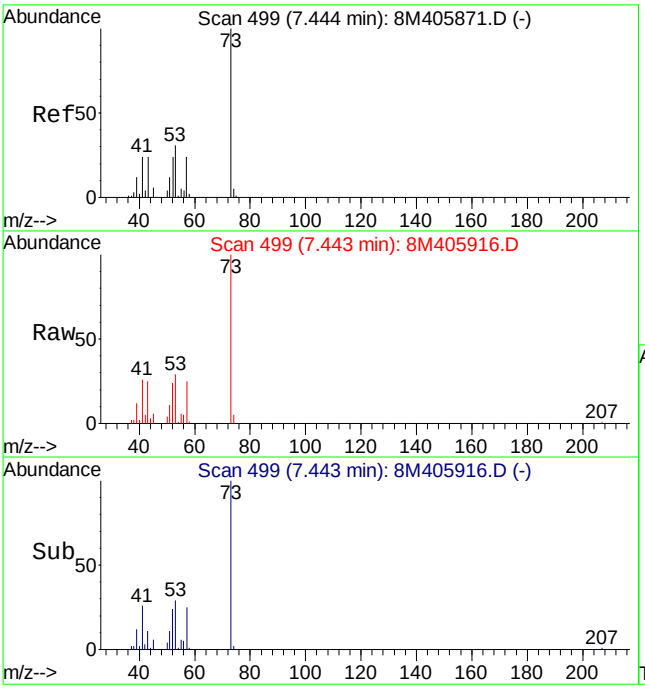


#20
Carbon Disulfide
Concen: 20.61 ug/L
RT: 7.30 min Scan# 485
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 76 Resp: 332072

Ion	Ratio	Lower	Upper
76	100		
78	8.7	5.7	13.3

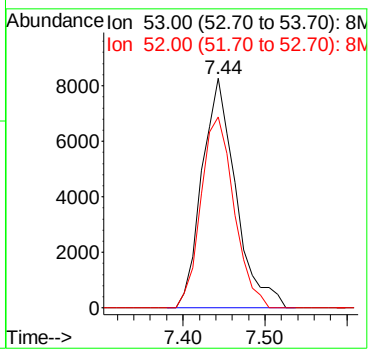


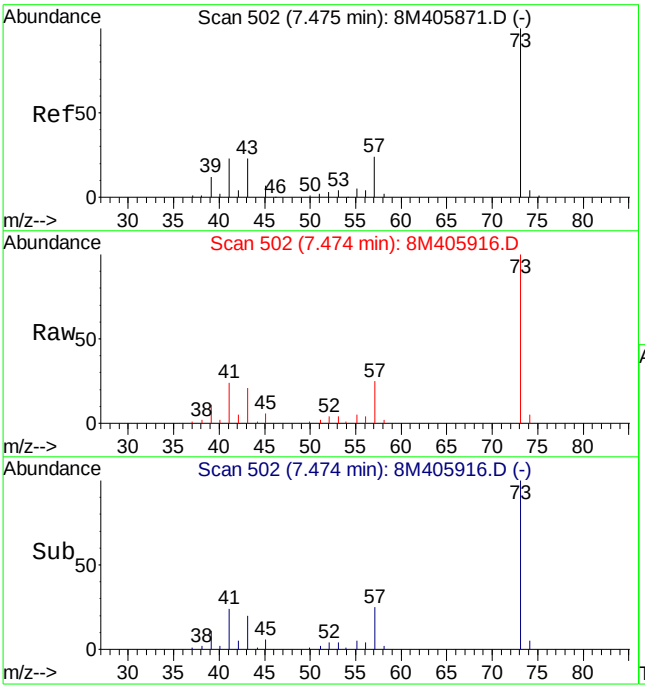


#21
Acrylonitrile
Concen: 21.34 ug/L
RT: 7.44 min Scan# 499
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 53 Resp: 23637

Ion	Ratio	Lower	Upper
53	100		
52	81.6	46.6	108.6

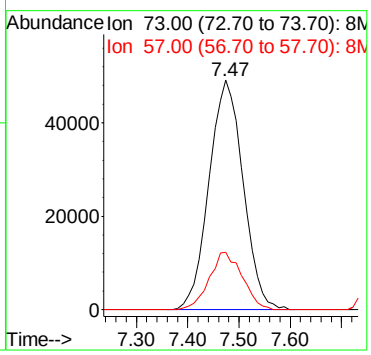


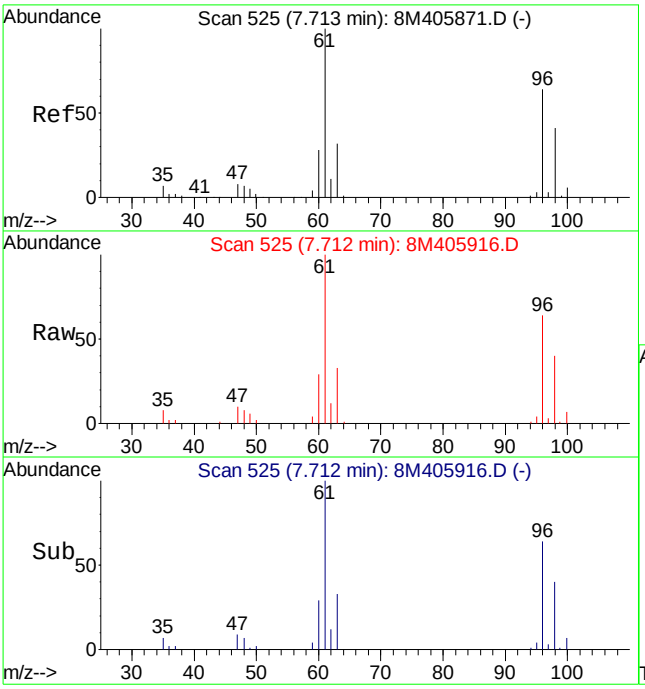


#22
Methyl Tert Butyl Ether
Concen: 21.91 ug/L
RT: 7.47 min Scan# 502
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 73 Resp: 226906

Ion	Ratio	Lower	Upper
73	100		
57	24.2	15.3	35.7

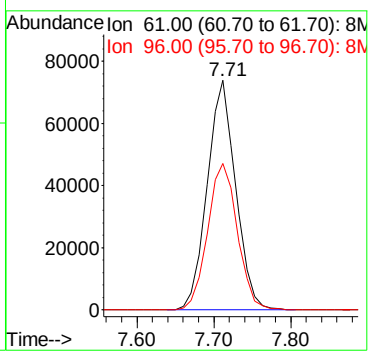


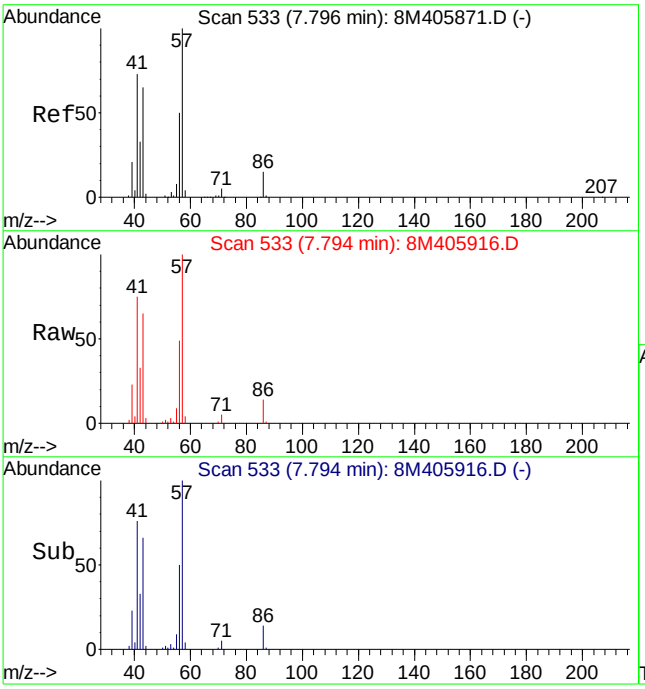


#23
trans-1,2-Dichloroethene
Concen: 21.87 ug/L
RT: 7.71 min Scan# 525
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 61 Resp: 189502

Ion	Ratio	Lower	Upper
61	100		
96	66.6	37.4	87.4

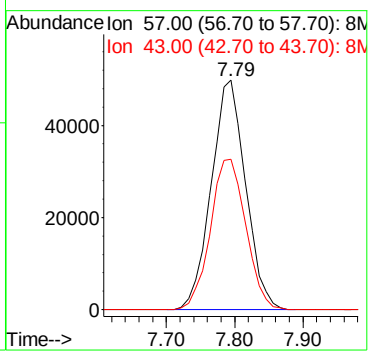


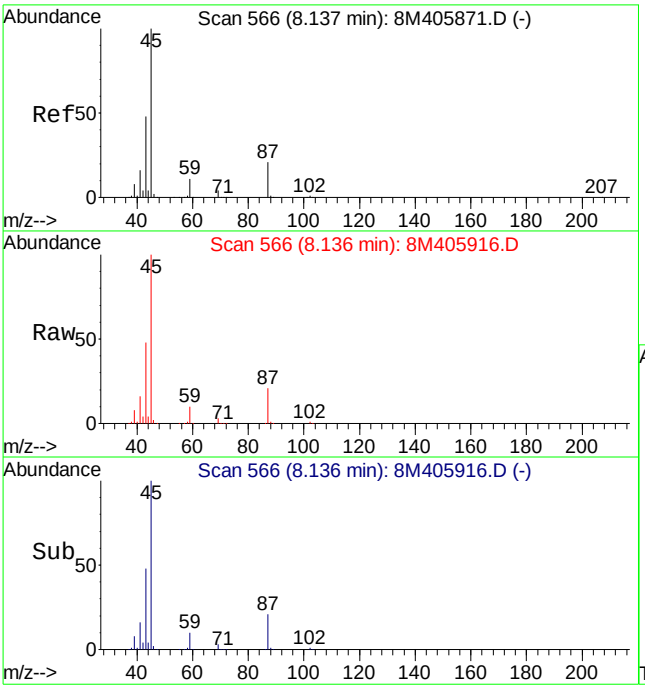


#24
n-Hexane
Concen: 20.33 ug/L
RT: 7.79 min Scan# 533
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 57 Resp: 174286

Ion	Ratio	Lower	Upper
57	100		
43	67.5	40.6	94.6

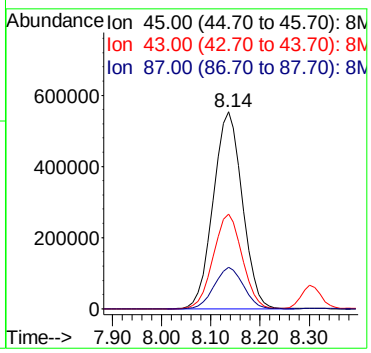


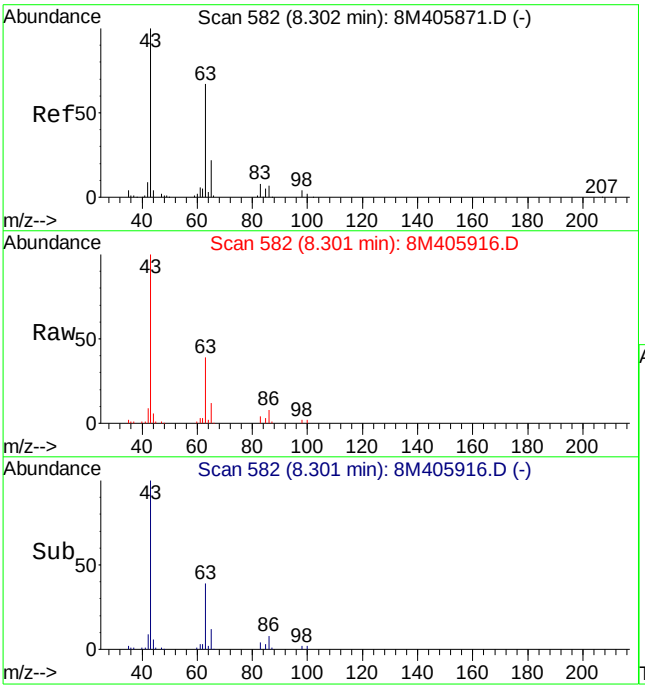


#25
Diisopropyl ether
Concen: 108.05 ug/L
RT: 8.14 min Scan# 566
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 45 Resp: 2275797

Ion	Ratio	Lower	Upper
45	100		
43	47.8	28.3	66.1
87	21.0	12.6	29.4

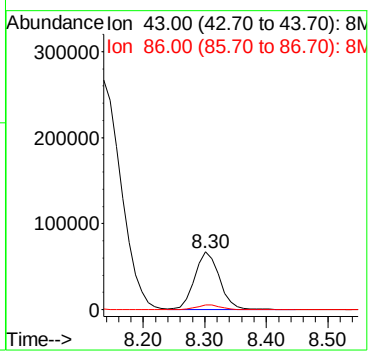


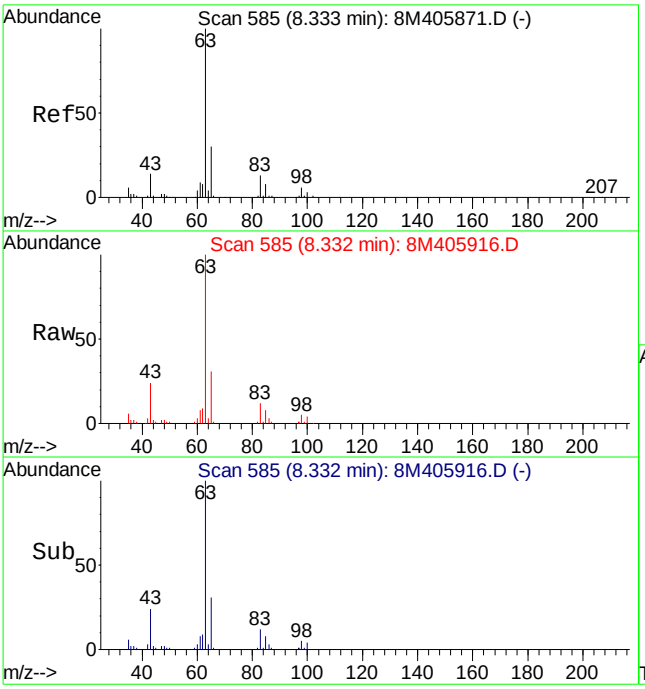


#26
Vinyl Acetate
Concen: 40.87 ug/L
RT: 8.30 min Scan# 582
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 43 Resp: 189298

Ion	Ratio	Lower	Upper
43	100		
86	7.9	4.9	11.3

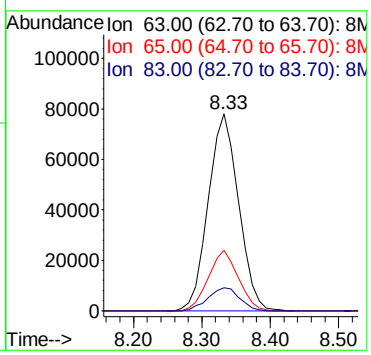


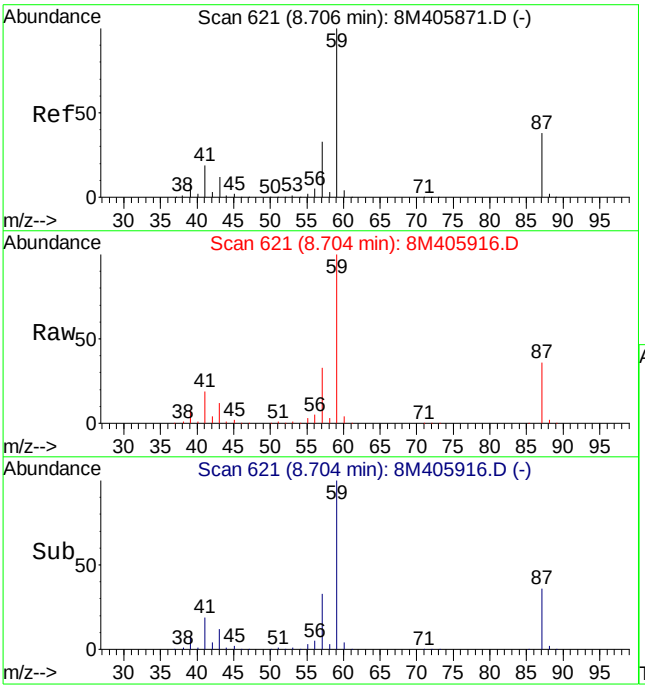


#27
1,1-Dichloroethane
Concen: 21.31 ug/L
RT: 8.33 min Scan# 585
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 63 Resp: 239676

Ion	Ratio	Lower	Upper
63	100		
65	30.2	18.4	43.0
83	12.1	7.7	18.1

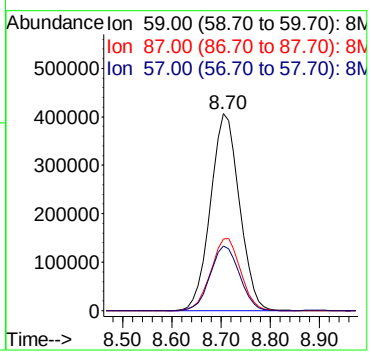


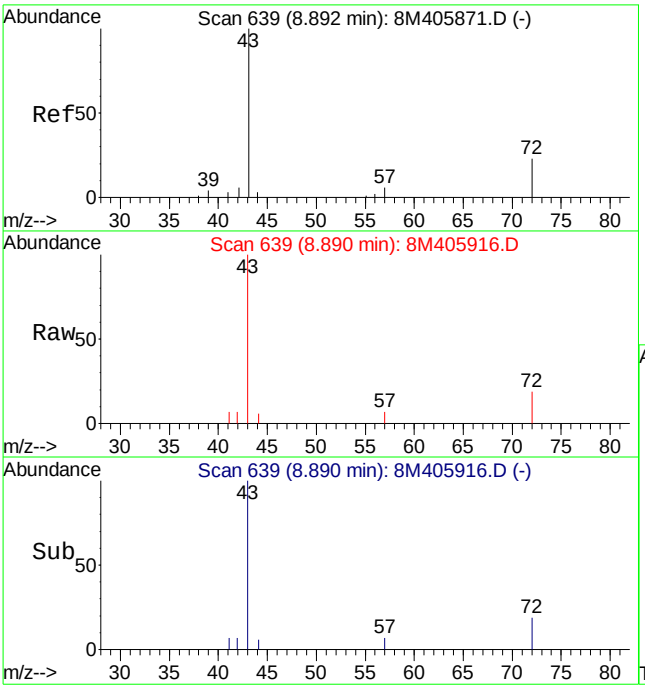


#28
Ethyl-Tert-Butyl ether
Concen: 101.58 ug/L
RT: 8.70 min Scan# 621
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 59 Resp: 1659843

Ion	Ratio	Lower	Upper
59	100		
87	37.6	22.5	52.5
57	33.1	20.0	46.6

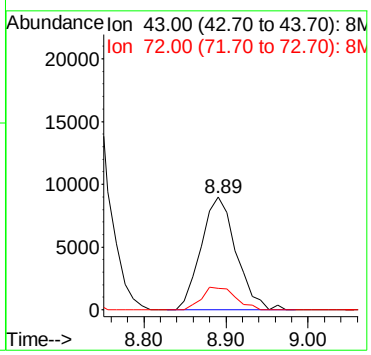


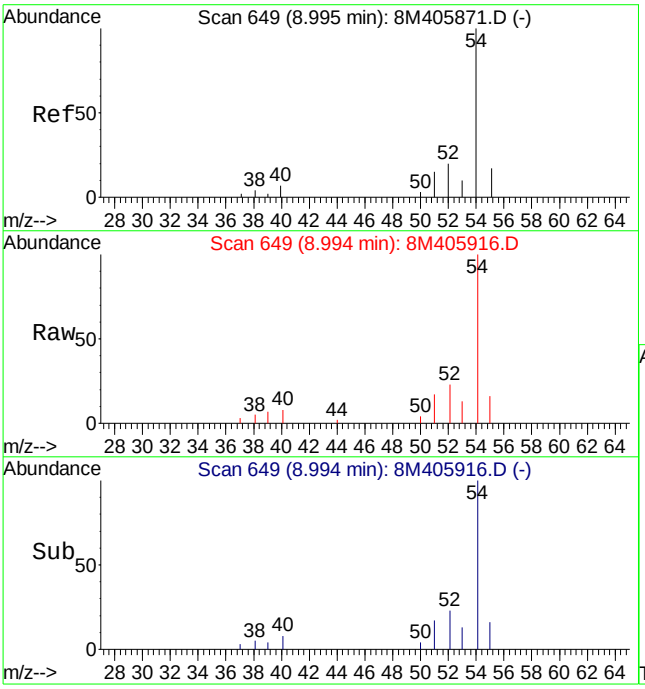


#29
2-Butanone
Concen: 20.94 ug/L
RT: 8.89 min Scan# 639
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 43 Resp: 26670

Ion	Ratio	Lower	Upper
43	100		
72	19.4	11.9	27.9

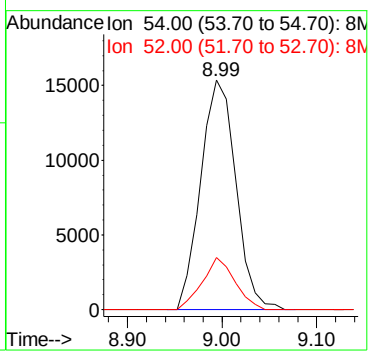


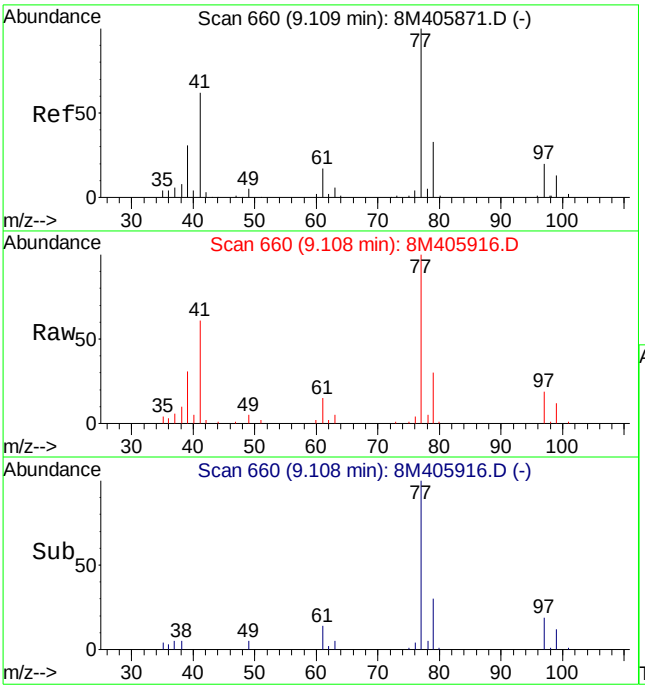


#30
Propionitrile
Concen: 105.23 ug/L
RT: 8.99 min Scan# 649
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 54 Resp: 39719

Ion	Ratio	Lower	Upper
54	100		
52	21.0	12.4	28.8

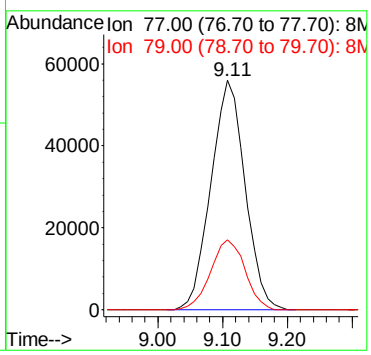


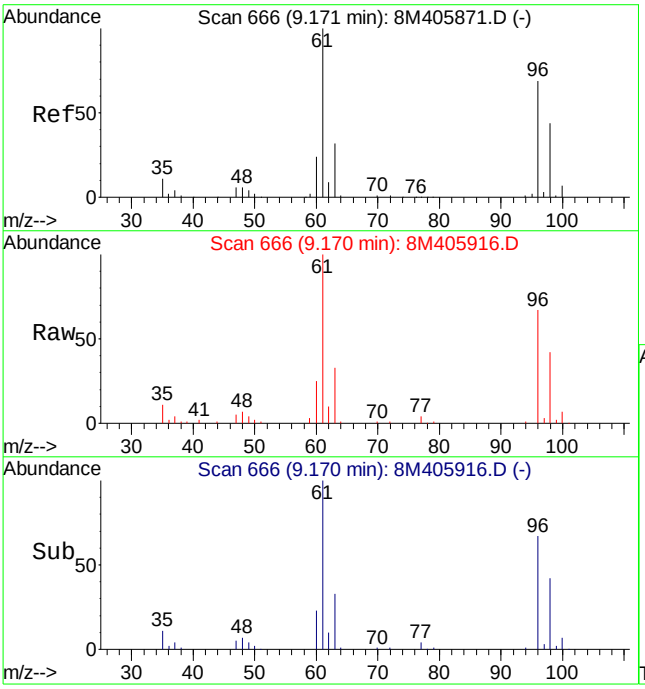


#31
2,2-Dichloropropane
Concen: 22.87 ug/L
RT: 9.11 min Scan# 660
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 77 Resp: 205390

Ion	Ratio	Lower	Upper
77	100		
79	30.7	19.4	45.4

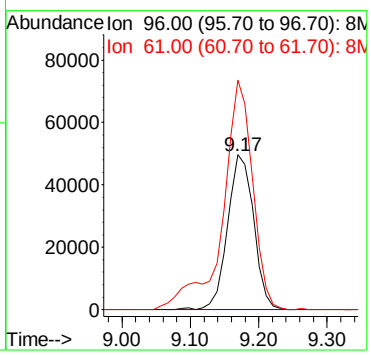


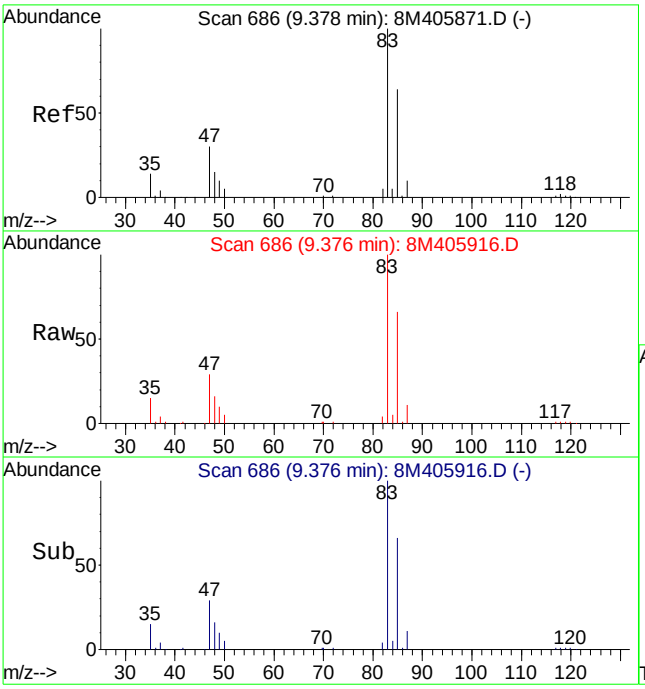


#32
cis-1,2-Dichloroethene
Concen: 22.03 ug/L
RT: 9.17 min Scan# 666
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 96 Resp: 131886

Ion	Ratio	Lower	Upper
96	100		
61	170.2	99.8	233.0

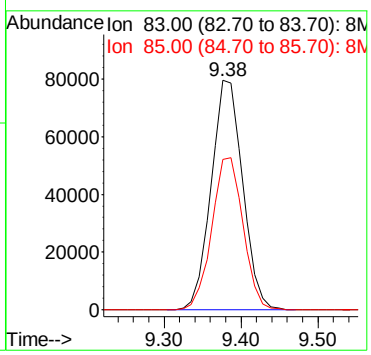


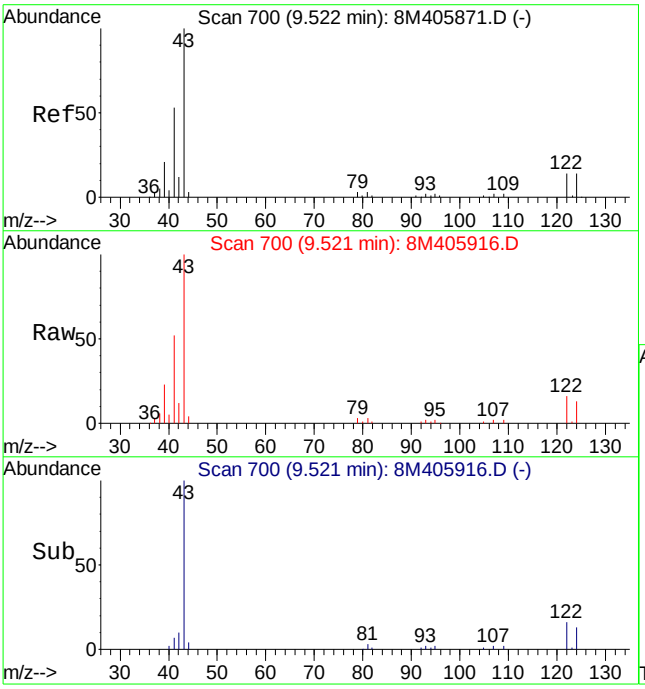


#33
Chloroform
Concen: 22.17 ug/L
RT: 9.38 min Scan# 686
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 83 Resp: 226803

Ion	Ratio	Lower	Upper
83	100		
85	65.6	38.8	90.4

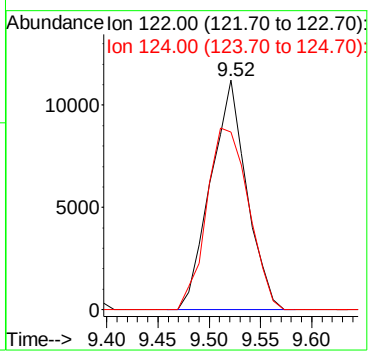


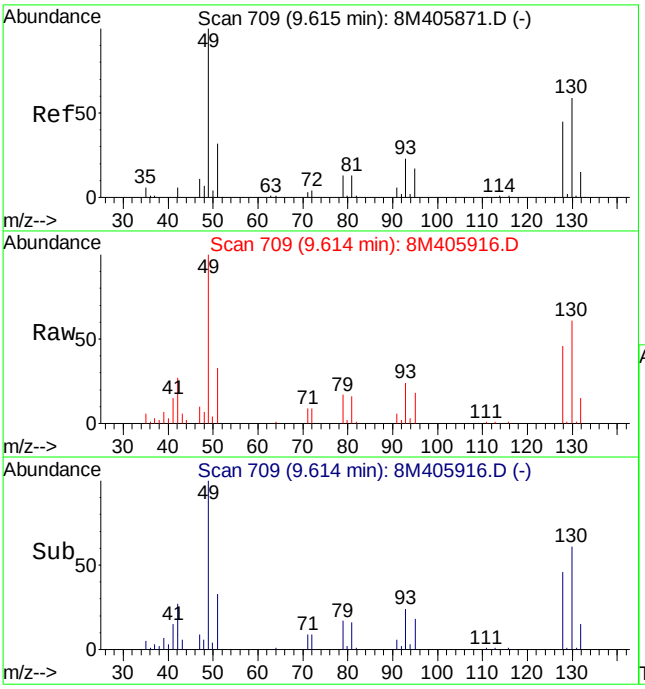


#34
1-Bromopropane
Concen: 27.84 ug/L
RT: 9.52 min Scan# 700
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:122 Resp: 27460

Ion	Ratio	Lower	Upper
122	100		
124	92.5	0.0	213.1

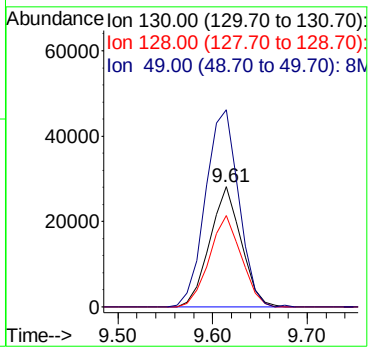


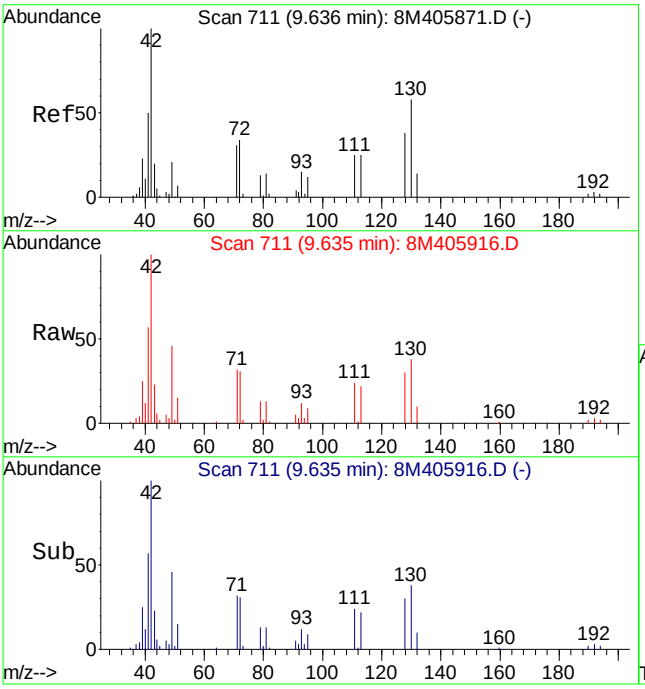


#35
Bromochloromethane
Concen: 22.09 ug/L
RT: 9.61 min Scan# 709
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:130 Resp: 65321

Ion	Ratio	Lower	Upper
130	100		
128	76.9	46.4	108.2
49	172.7	104.0	242.8

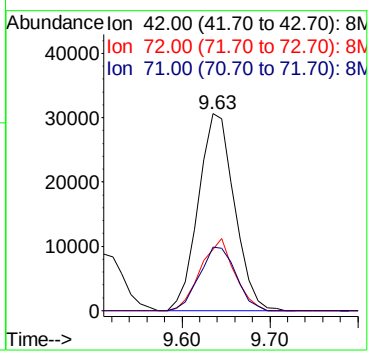


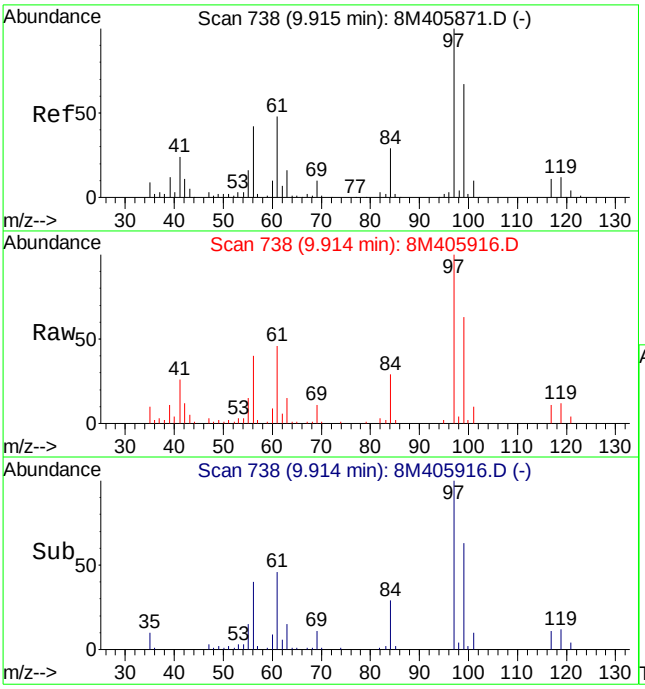


#36
Tetrahydrofuran
Concen: 102.66 ug/L
RT: 9.63 min Scan# 711
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 42 Resp: 87334

Ion	Ratio	Lower	Upper
42	100		
72	34.4	22.4	52.4
71	32.6	19.5	45.5

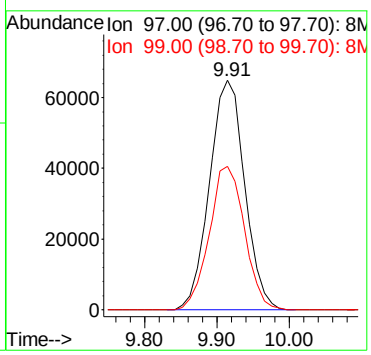


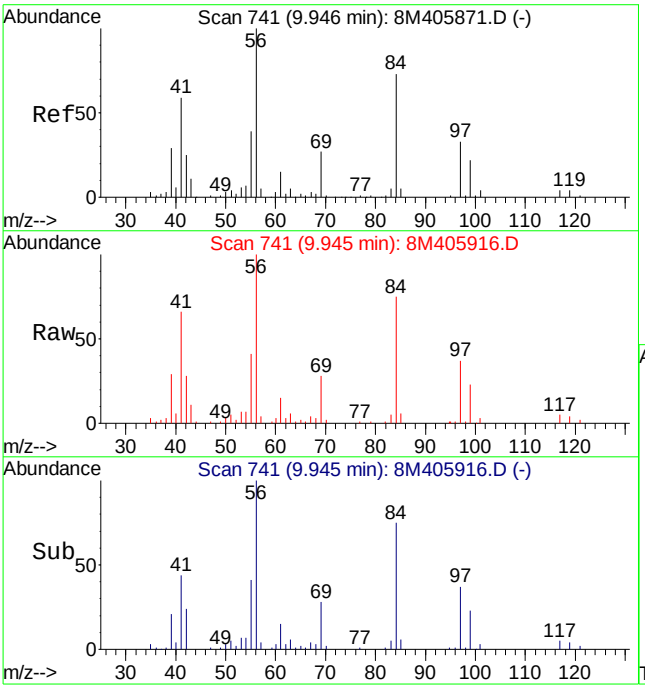


#38
1,1,1-Trichloroethane
Concen: 22.71 ug/L
RT: 9.91 min Scan# 738
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 97 Resp: 220538

Ion	Ratio	Lower	Upper
97	100		
99	62.5	39.7	92.7

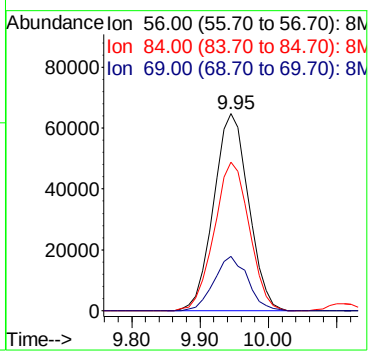


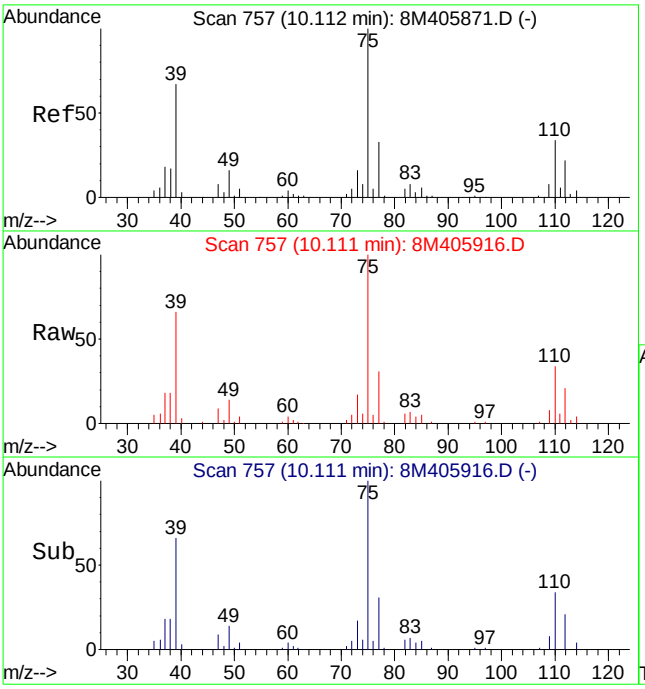


#39
Cyclohexane
Concen: 20.19 ug/L
RT: 9.95 min Scan# 741
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 56 Resp: 229874

Ion	Ratio	Lower	Upper
56	100		
84	75.6	45.4	105.8
69	26.5	15.8	37.0

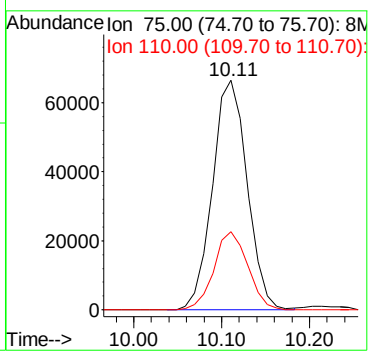


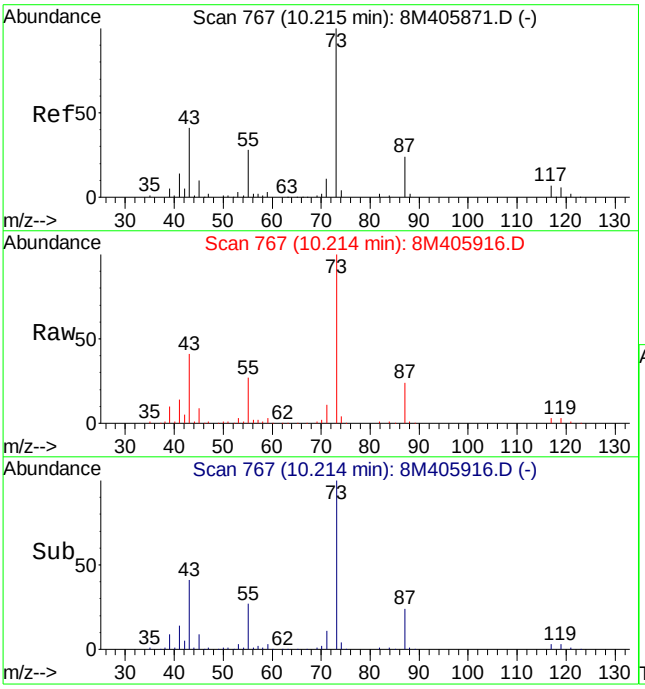


#40
1,1-Dichloropropene
Concen: 23.50 ug/L
RT: 10.11 min Scan# 757
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 75 Resp: 182891

Ion	Ratio	Lower	Upper
75	100		
110	33.0	20.2	47.0

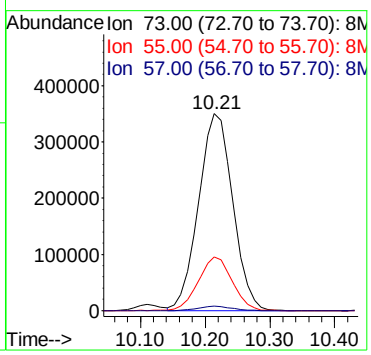


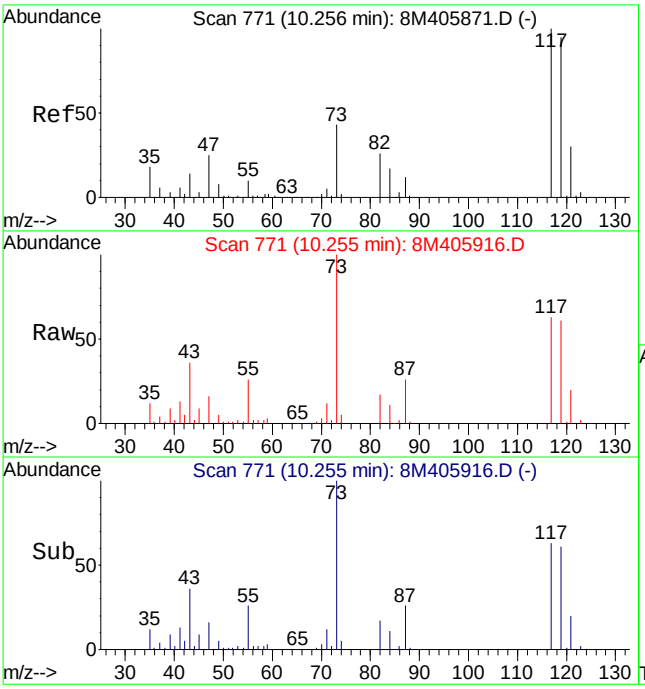


#41
Tert-Amyl-Methyl ether
Concen: 105.76 ug/L
RT: 10.21 min Scan# 767
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 73 Resp: 1284957

Ion	Ratio	Lower	Upper
73	100		
55	26.9	16.1	37.5
57	2.1	1.3	3.1

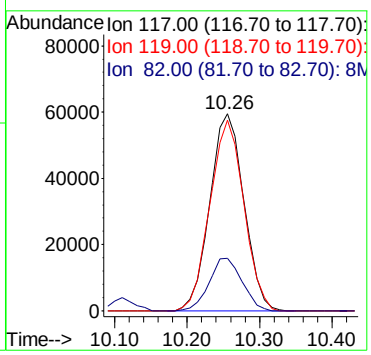


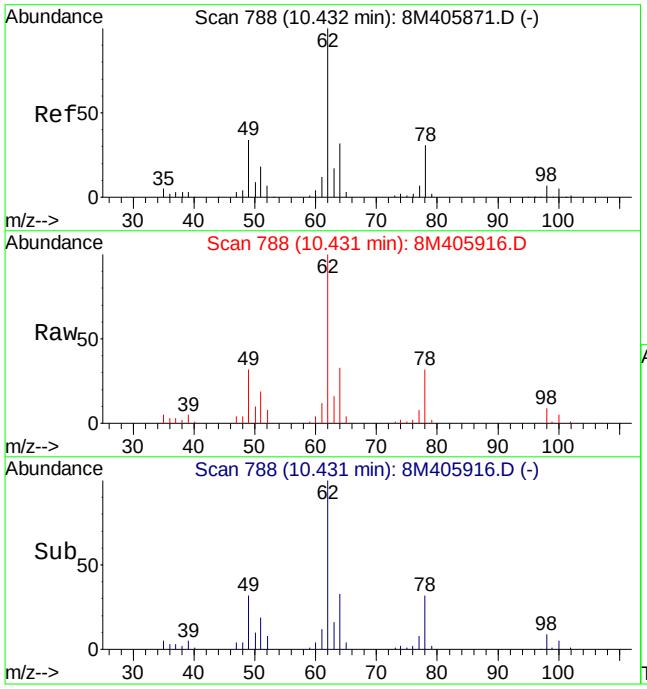


#42
Carbon Tetrachloride
Concen: 22.24 ug/L
RT: 10.26 min Scan# 771
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:117 Resp: 195653

Ion	Ratio	Lower	Upper
117	100		
119	96.2	58.0	135.2
82	25.7	15.7	36.5

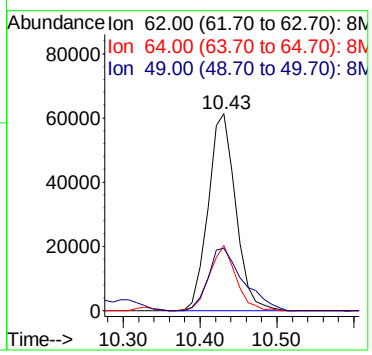


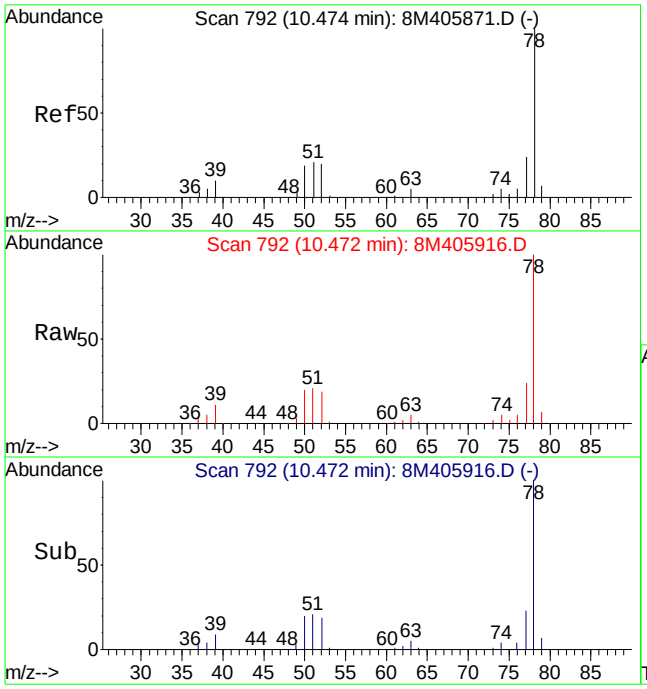


#45
1,2-Dichloroethane
Concen: 21.85 ug/L
RT: 10.43 min Scan# 788
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 62 Resp: 151986

Ion	Ratio	Lower	Upper
62	100		
64	31.8	18.8	44.0
49	40.4	25.3	58.9

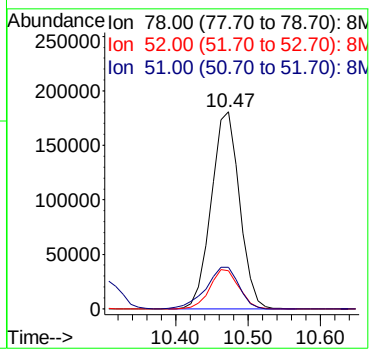


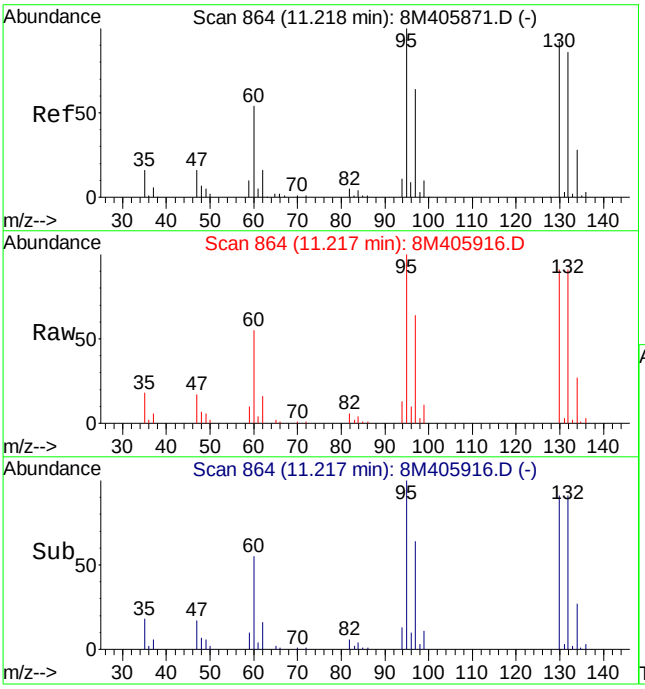


#46
Benzene
Concen: 22.12 ug/L
RT: 10.47 min Scan# 792
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 78 Resp: 493676

Ion	Ratio	Lower	Upper
78	100		
52	20.3	12.1	28.1
51	24.4	14.6	34.2

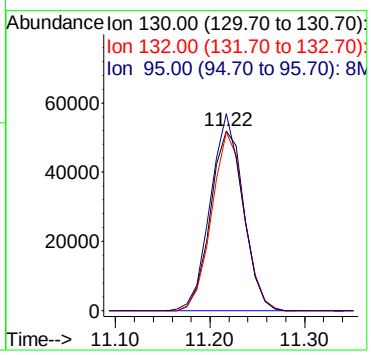


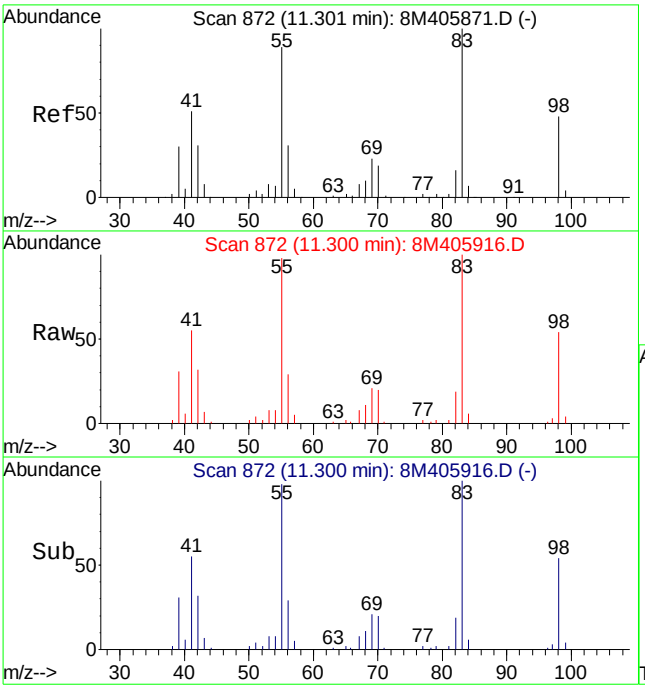


#47
Trichloroethene
Concen: 23.31 ug/L
RT: 11.22 min Scan# 864
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:130 Resp: 129413

Ion	Ratio	Lower	Upper
130	100		
132	95.6	59.0	137.6
95	104.5	65.0	151.8

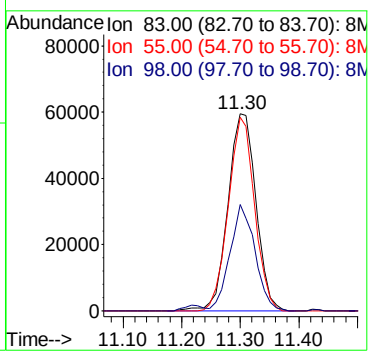


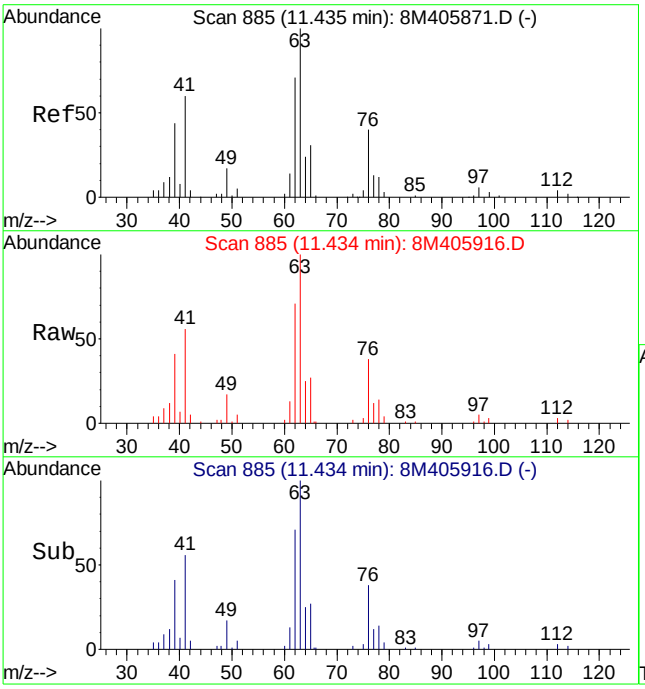


#48
Methylcyclohexane
Concen: 21.73 ug/L
RT: 11.30 min Scan# 872
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 83 Resp: 196687

Ion	Ratio	Lower	Upper
83	100		
55	92.0	54.8	128.0
98	48.1	29.0	67.8

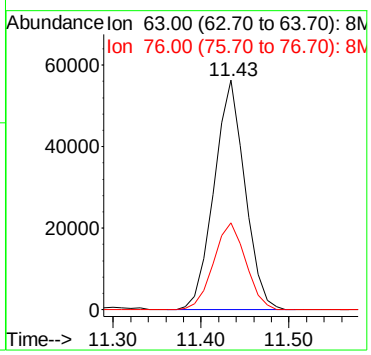


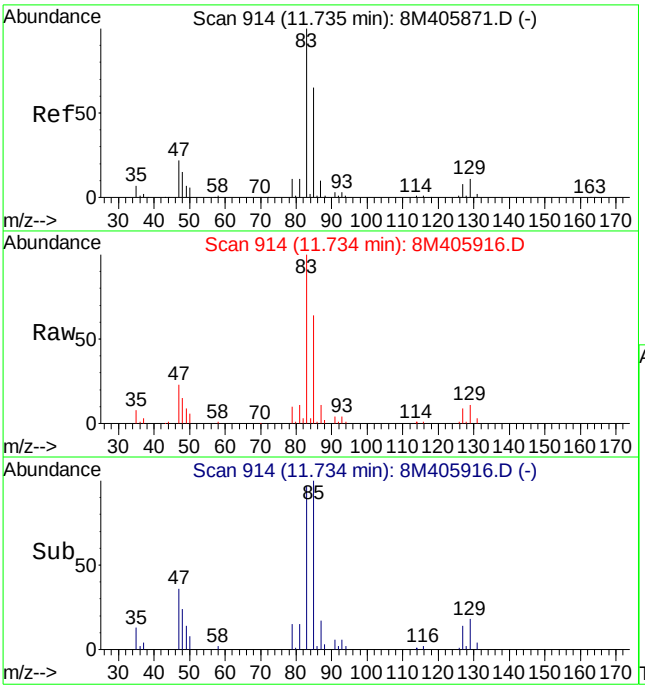


#49
1,2-Dichloropropane
Concen: 22.19 ug/L
RT: 11.43 min Scan# 885
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 63 Resp: 137373

Ion	Ratio	Lower	Upper
63	100		
76	39.5	24.4	57.0

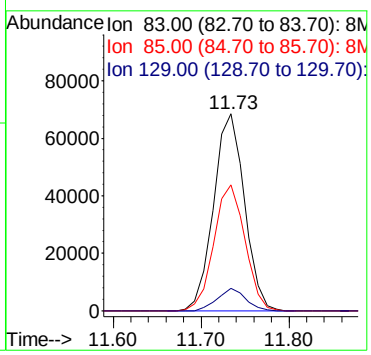


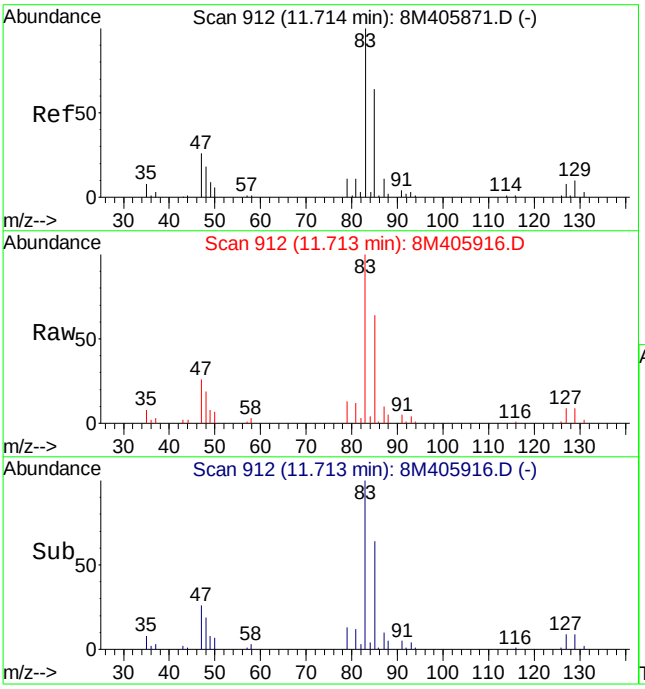


#50
Bromodichloromethane
Concen: 21.97 ug/L
RT: 11.73 min Scan# 914
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 83 Resp: 167906

Ion	Ratio	Lower	Upper
83	100		
85	64.4	38.6	90.2
129	10.4	6.6	15.4

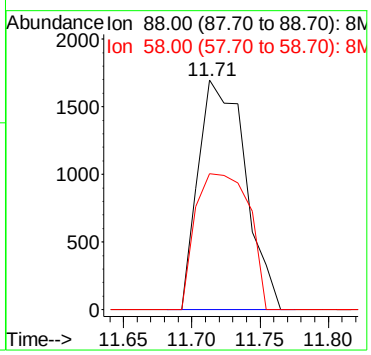


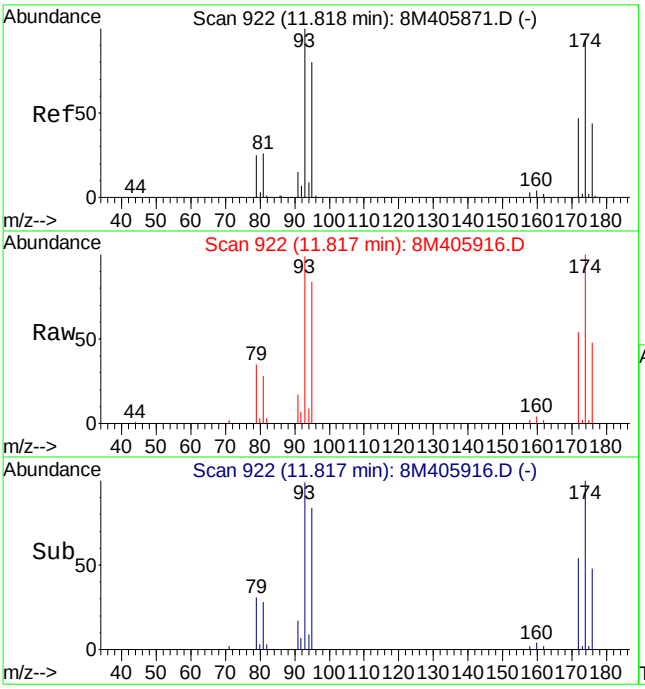


#51
1,4-Dioxane
Concen: 198.23 ug/L
RT: 11.71 min Scan# 912
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 88 Resp: 4058

Ion	Ratio	Lower	Upper
88	100		
58	67.6	46.9	109.3

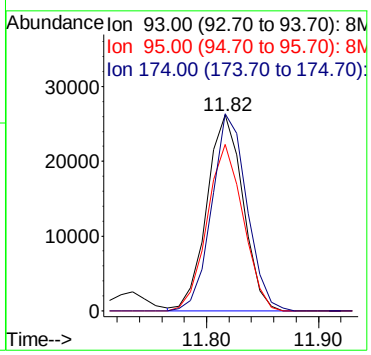


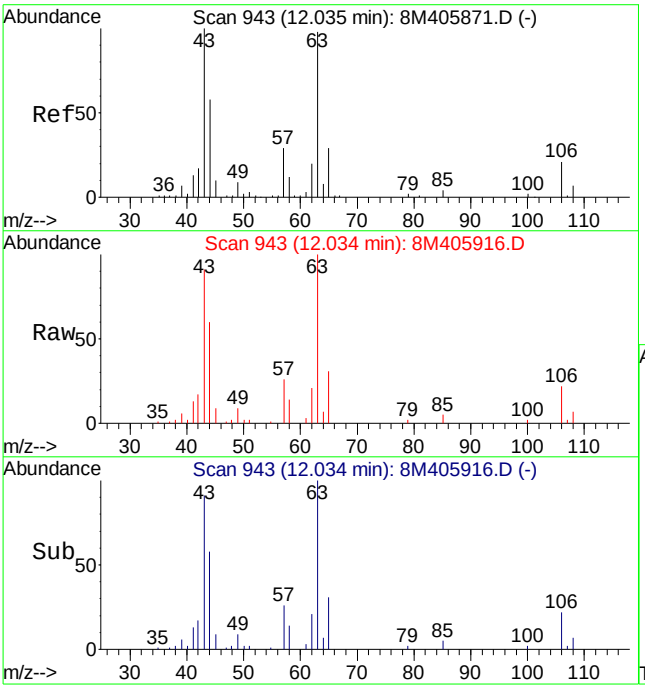


#52
Dibromomethane
Concen: 20.52 ug/L
RT: 11.82 min Scan# 922
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 93 Resp: 58709

Ion	Ratio	Lower	Upper
93	100		
95	84.7	48.9	114.1
174	98.0	58.1	135.5

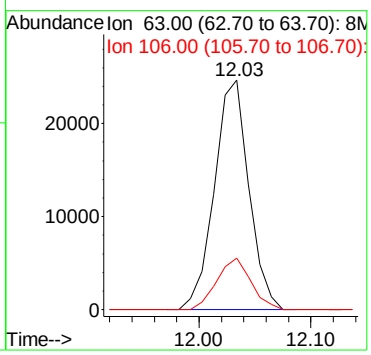


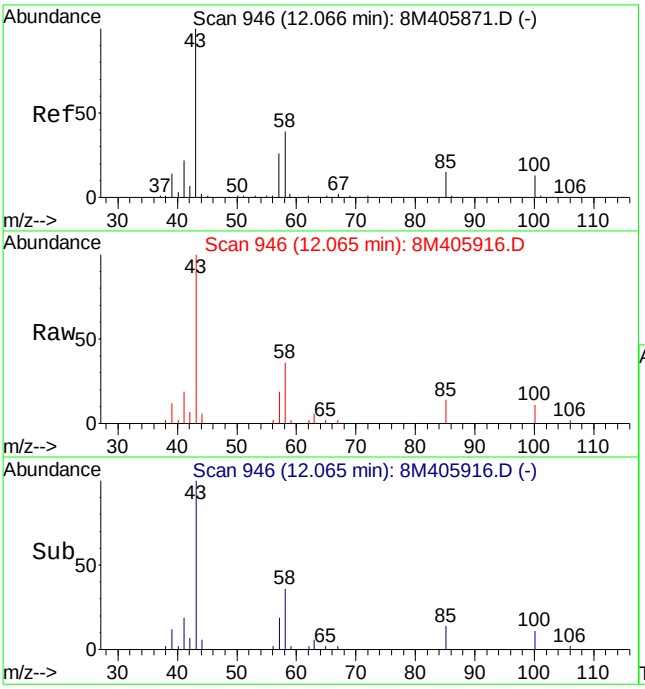


#53
2-Chloroethyl Vinyl Ether
Concen: 19.53 ug/L
RT: 12.03 min Scan# 943
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 63 Resp: 52836

Ion	Ratio	Lower	Upper
63	100		
106	22.1	13.7	31.9

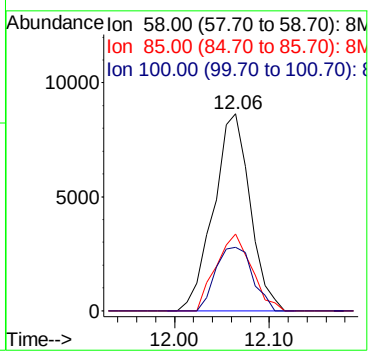


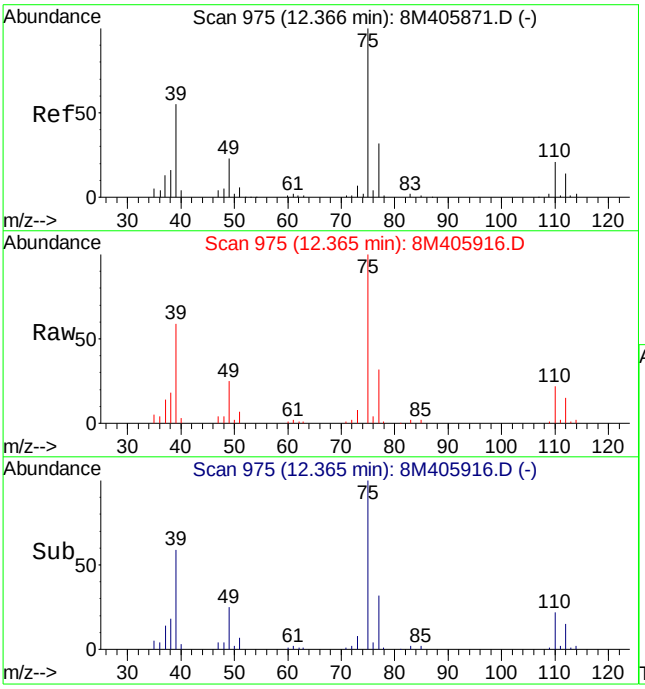


#54
4-Methyl-2-Pentanone
Concen: 20.27 ug/L
RT: 12.06 min Scan# 946
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 58 Resp: 23331

Ion	Ratio	Lower	Upper
58	100		
85	38.0	21.8	51.0
100	32.7	19.4	45.4

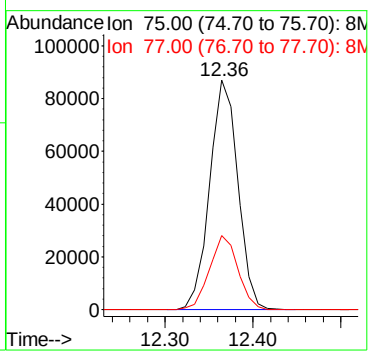


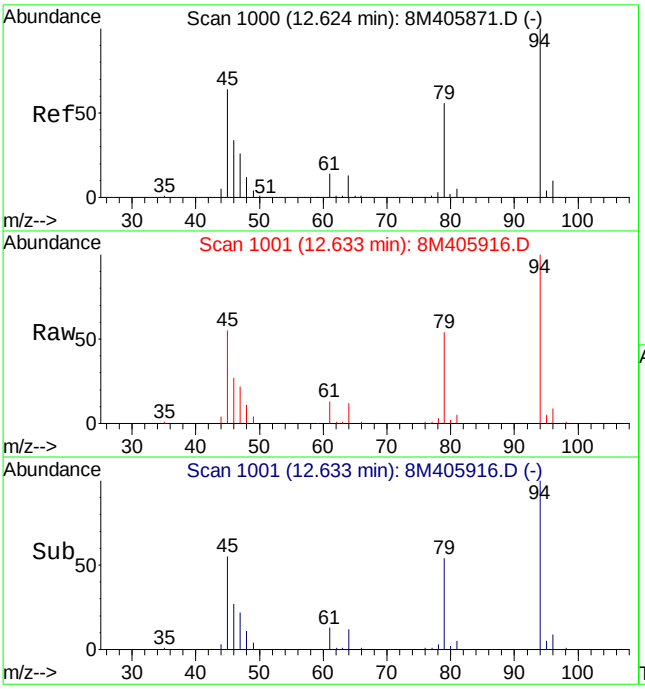


#55
cis-1,3-Dichloropropene
Concen: 22.92 ug/L
RT: 12.36 min Scan# 975
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 75 Resp: 194300

Ion	Ratio	Lower	Upper
75	100		
77	32.4	18.9	44.1

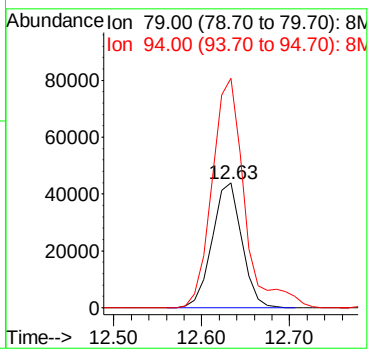


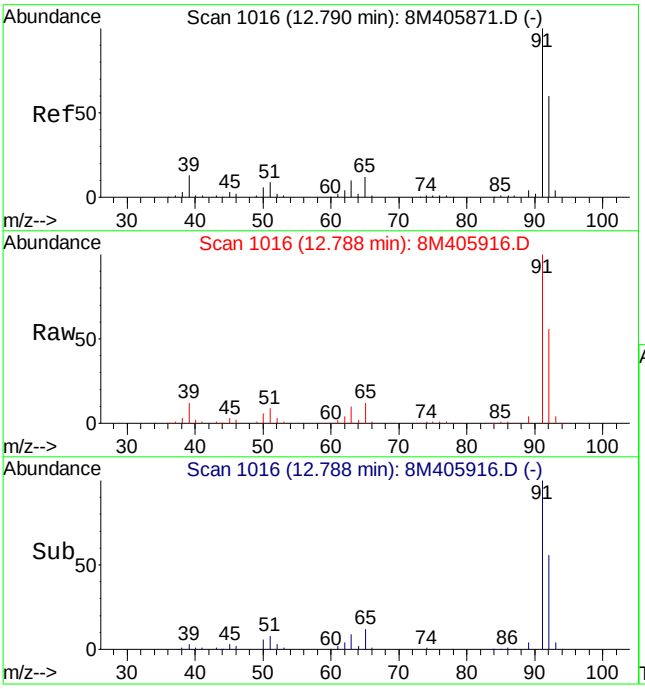


#56
Dimethyl Disulfide
Concen: 21.86 ug/L
RT: 12.63 min Scan# 1001
Delta R.T. 0.01 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 79 Resp: 103149

Ion	Ratio	Lower	Upper
79	100		
94	201.0	114.7	267.7

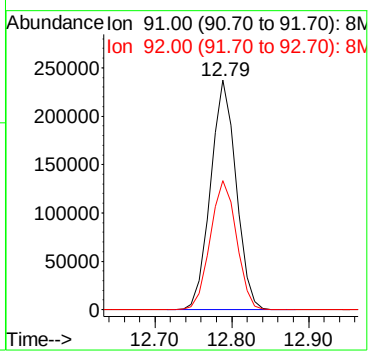


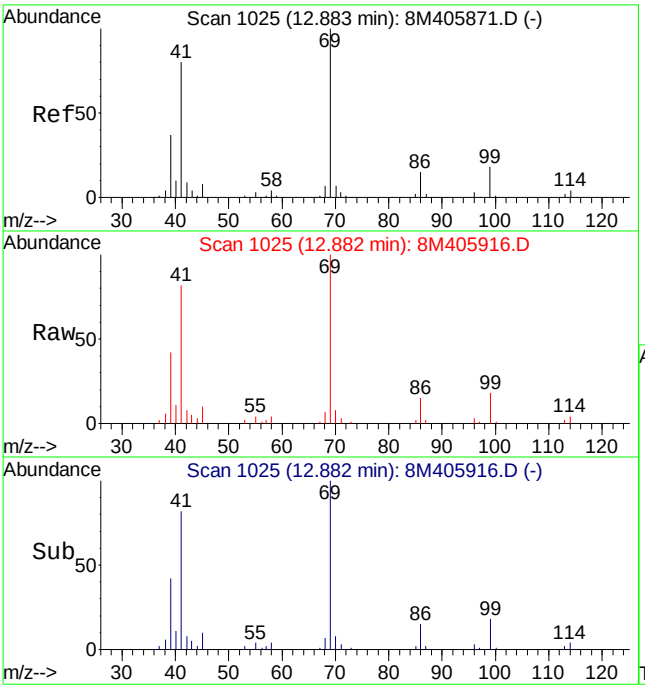


#59
Toluene
Concen: 22.11 ug/L
RT: 12.79 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 91 Resp: 547849

Ion	Ratio	Lower	Upper
91	100		
92	57.9	35.7	83.3

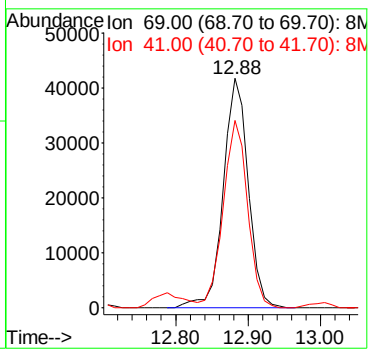


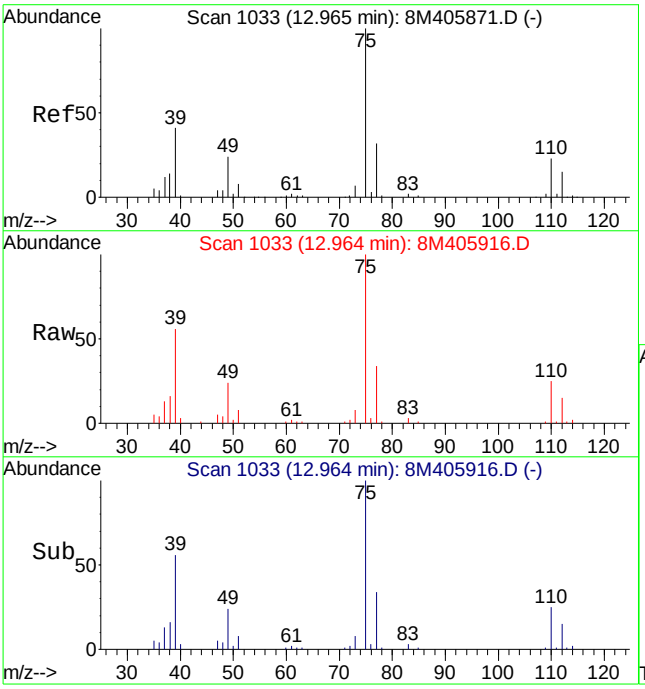


#60
Ethyl Methacrylate
Concen: 22.17 ug/L
RT: 12.88 min Scan# 1025
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 69 Resp: 101299

Ion	Ratio	Lower	Upper
69	100		
41	79.8	48.5	113.3

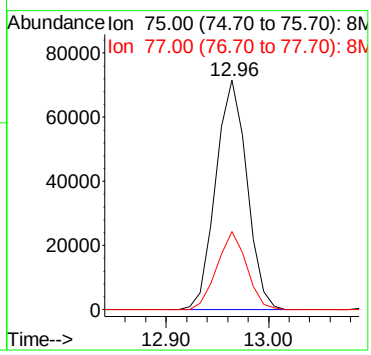


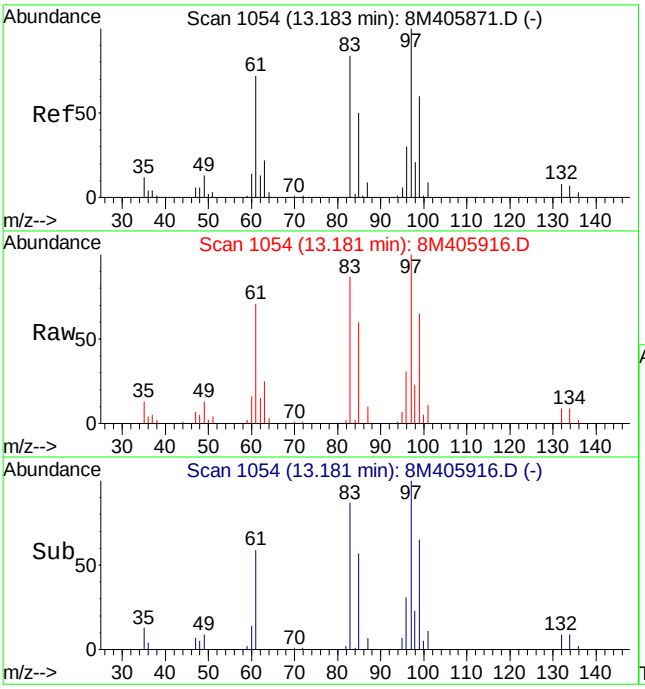


#62
trans-1,3-Dichloropropene
Concen: 19.80 ug/L
RT: 12.96 min Scan# 1033
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 75 Resp: 151324

Ion	Ratio	Lower	Upper
75	100		
77	32.4	19.2	44.8

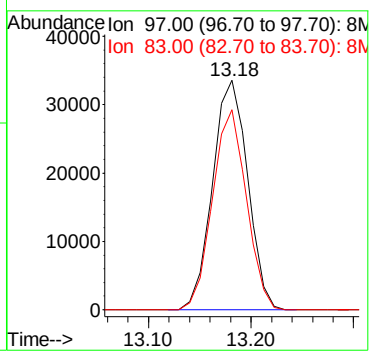


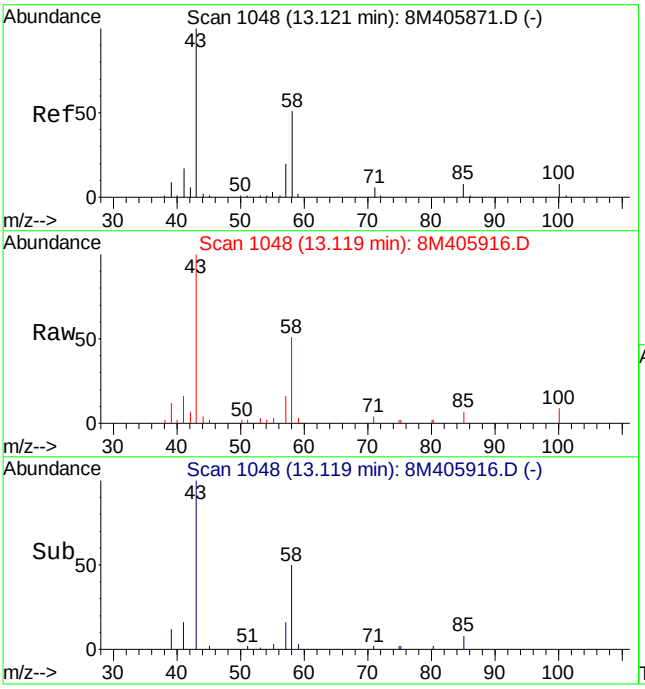


#63
1,1,2-Trichloroethane
Concen: 20.85 ug/L
RT: 13.18 min Scan# 1054
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 97 Resp: 79848

Ion	Ratio	Lower	Upper
97	100		
83	84.3	51.1	119.1

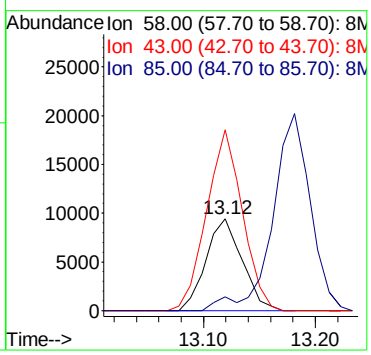


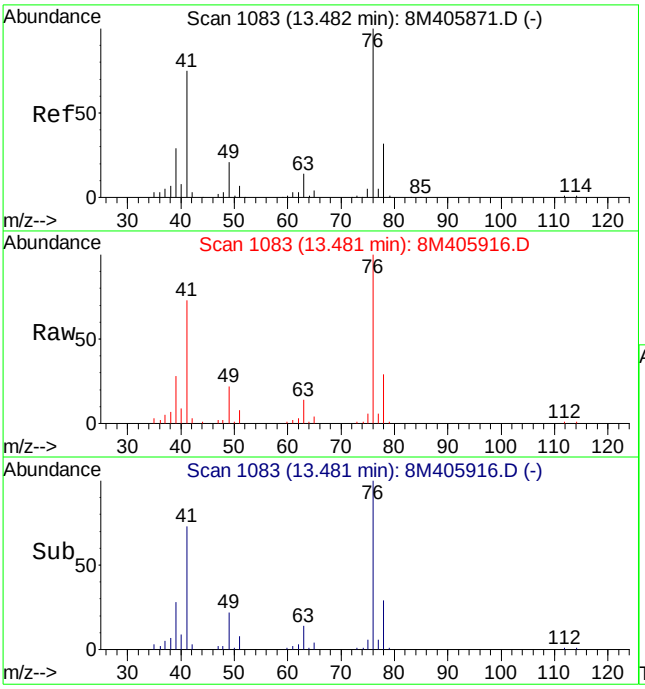


#64
2-Hexanone
Concen: 19.15 ug/L
RT: 13.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 58 Resp: 21192

Ion	Ratio	Lower	Upper
58	100		
43	194.9	116.8	272.4
85	221.9	0.0	0.0#

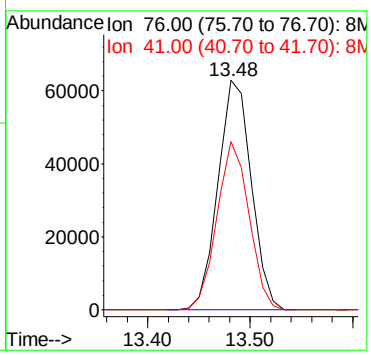


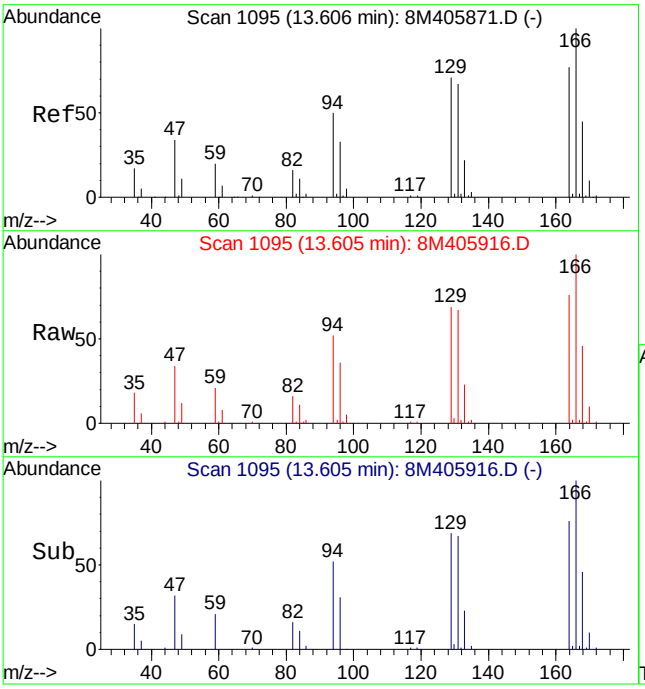


#65
1,3-Dichloropropane
Concen: 21.18 ug/L
RT: 13.48 min Scan# 1083
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 76 Resp: 142091

Ion	Ratio	Lower	Upper
76	100		
41	70.6	43.3	100.9

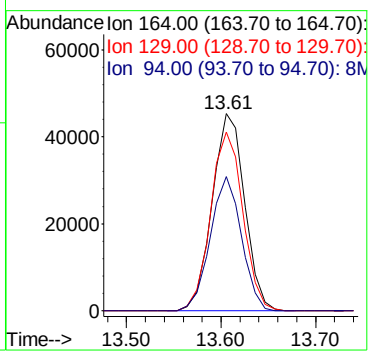


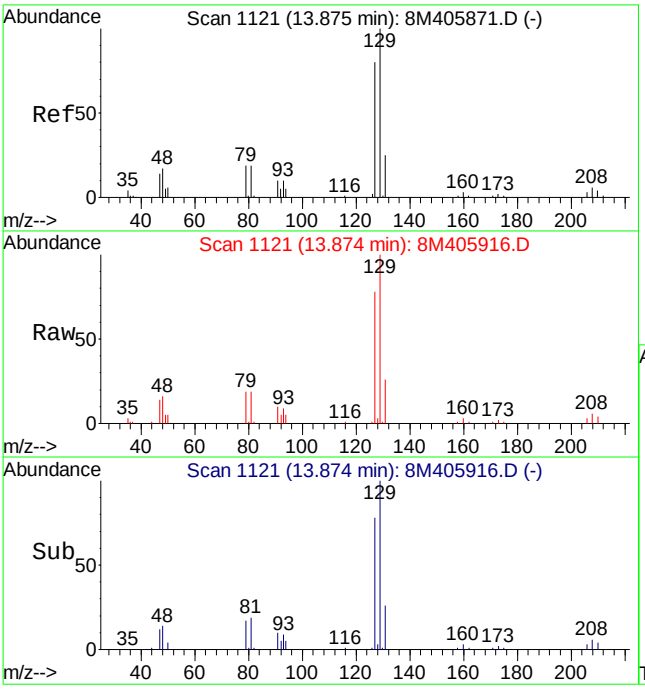


#66
Tetrachloroethene
Concen: 21.52 ug/L
RT: 13.61 min Scan# 1095
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:164 Resp: 108943

Ion	Ratio	Lower	Upper
164	100		
129	89.9	54.3	126.7
94	65.3	38.3	89.5

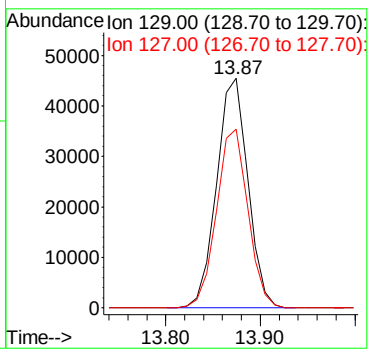


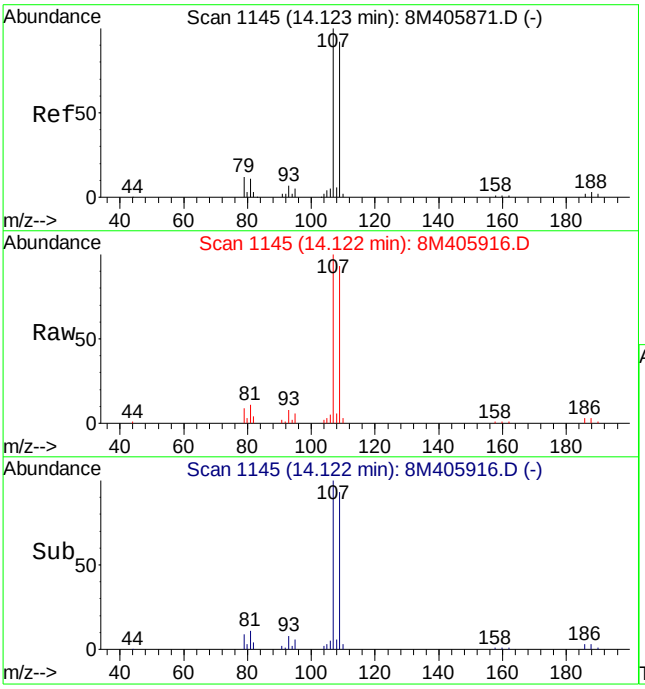


#67
Dibromochloromethane
Concen: 18.94 ug/L
RT: 13.87 min Scan# 1121
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:129 Resp: 105164

Ion	Ratio	Lower	Upper
129	100		
127	78.2	46.4	108.2

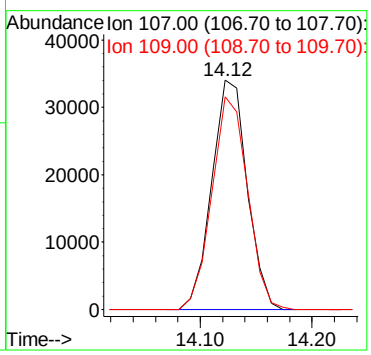


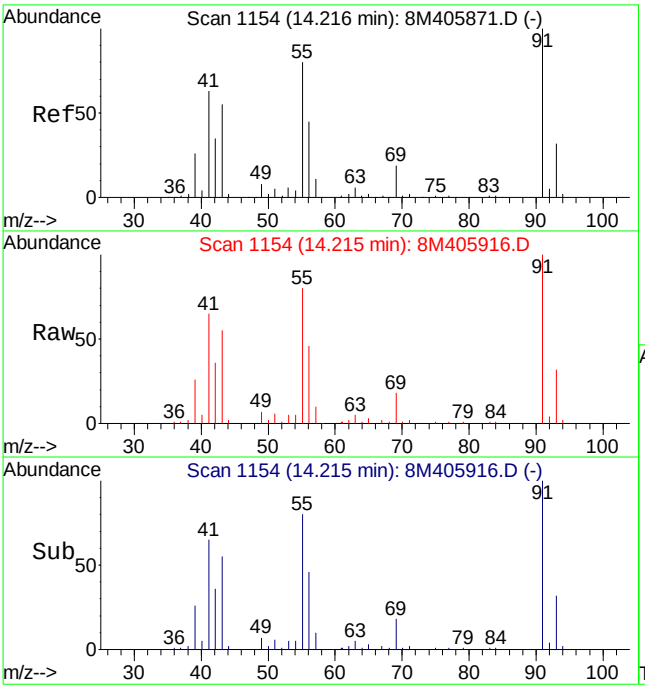


#68
1,2-Dibromoethane
Concen: 20.35 ug/L
RT: 14.12 min Scan# 1145
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:107 Resp: 74986

Ion	Ratio	Lower	Upper
107	100		
109	93.4	56.5	131.7

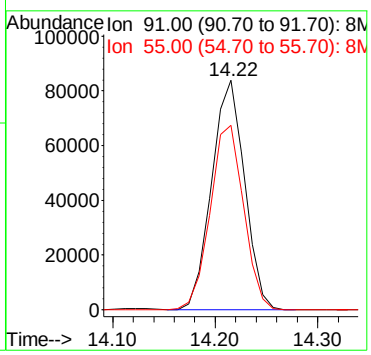


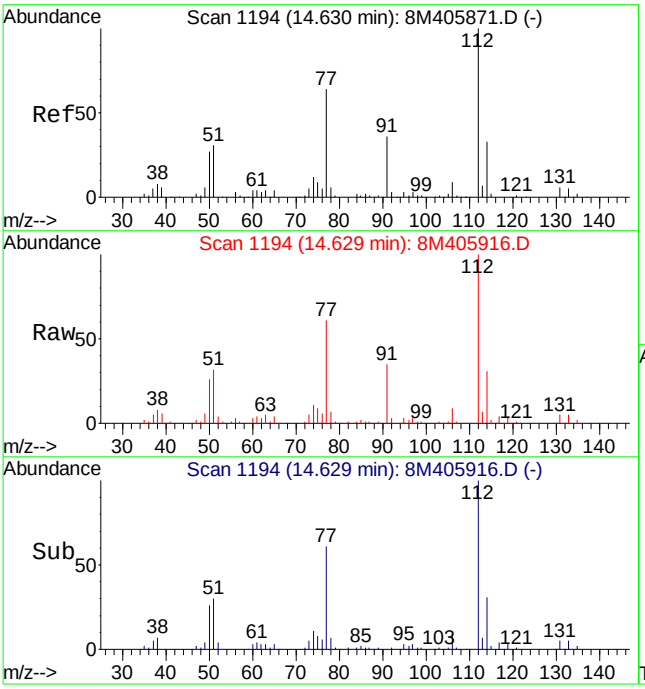


#69
1-Chlorohexane
Concen: 21.64 ug/L
RT: 14.22 min Scan# 1154
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 91 Resp: 187172

Ion	Ratio	Lower	Upper
91	100		
55	81.6	48.3	112.7

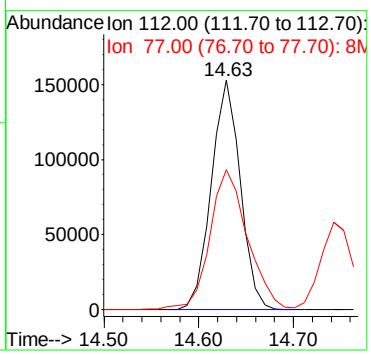


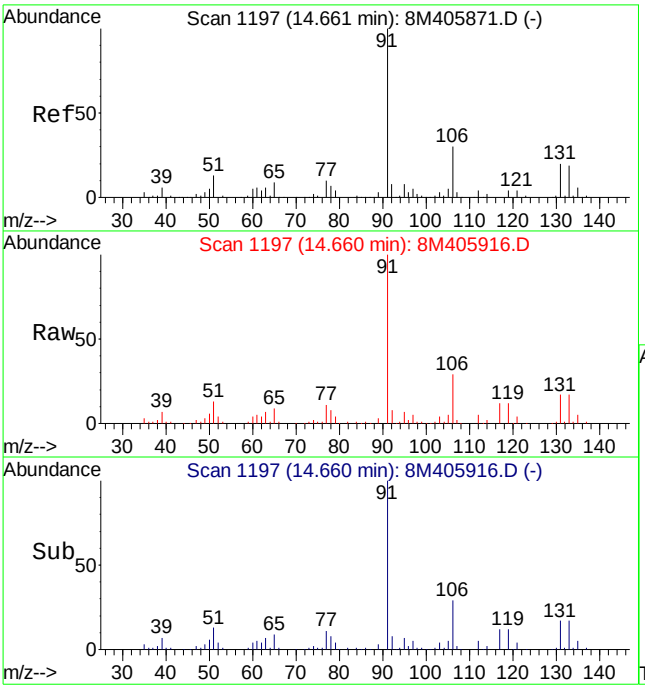


#70
Chlorobenzene
Concen: 19.67 ug/L
RT: 14.63 min Scan# 1194
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:112 Resp: 326759

Ion	Ratio	Lower	Upper
112	100		
77	79.2	47.6	111.0

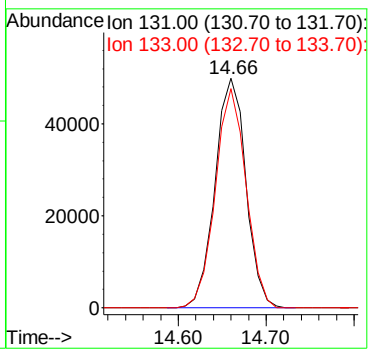


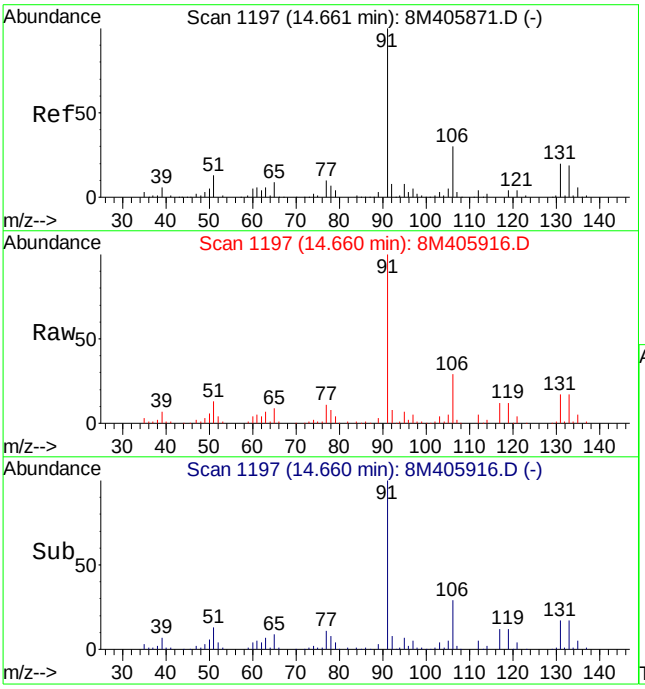


#71
1,1,1,2-Tetrachloroethane
Concen: 20.23 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:131 Resp: 122235

Ion	Ratio	Lower	Upper
131	100		
133	94.7	57.1	133.1

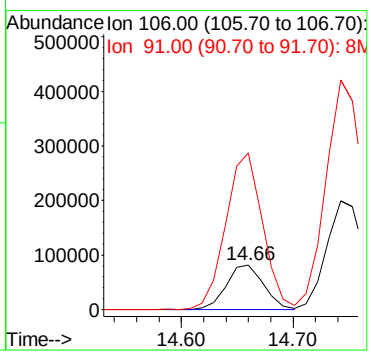


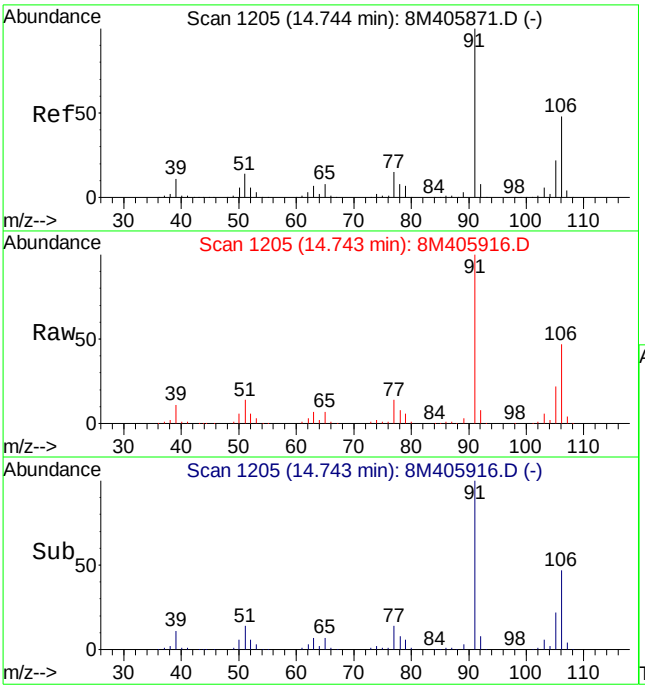


#72
Ethylbenzene
Concen: 20.32 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:106 Resp: 189926

Ion	Ratio	Lower	Upper
106	100		
91	346.7	199.7	466.1

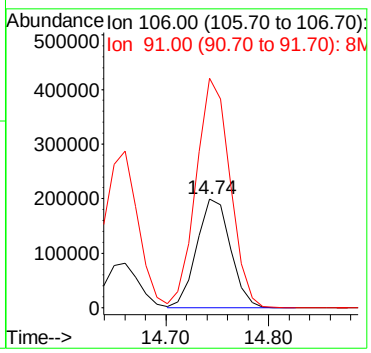


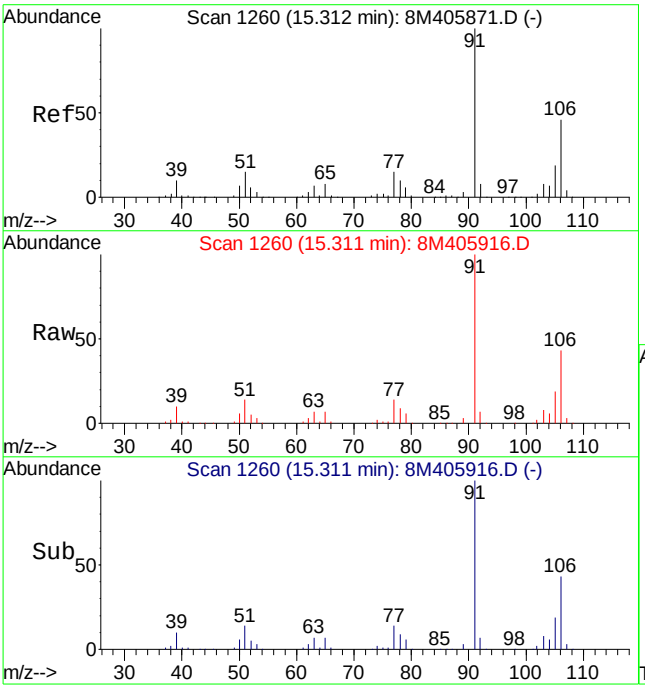


#73
m-,p-Xylene
Concen: 41.67 ug/L
RT: 14.74 min Scan# 1205
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:106 Resp: 458659

Ion	Ratio	Lower	Upper
106	100		
91	211.2	125.1	291.9

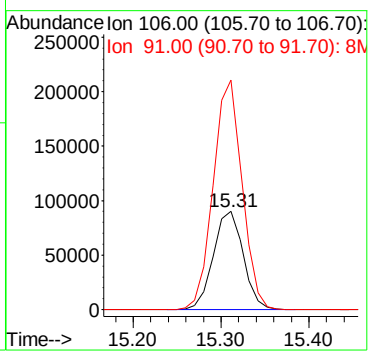


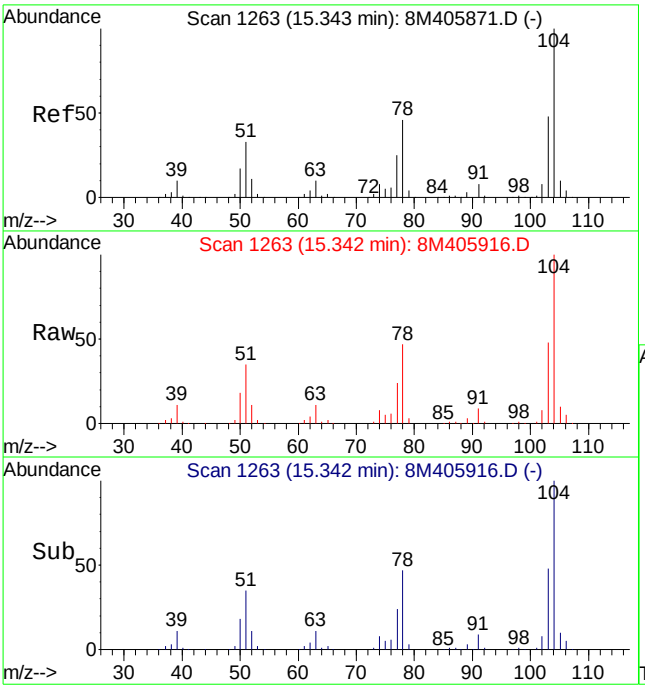


#74
o-Xylene
Concen: 20.04 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:106 Resp: 213916

Ion	Ratio	Lower	Upper
106	100		
91	225.1	134.3	313.5

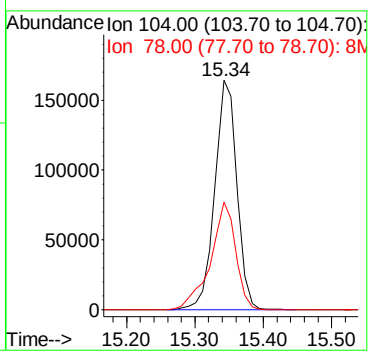


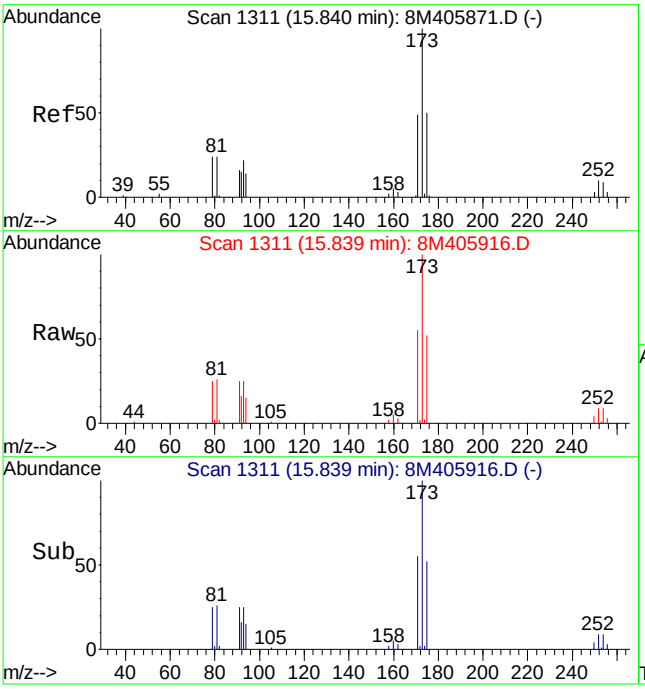


#75
Styrene
Concen: 21.63 ug/L
RT: 15.34 min Scan# 1263
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:104 Resp: 371136

Ion	Ratio	Lower	Upper
104	100		
78	53.4	32.9	76.7

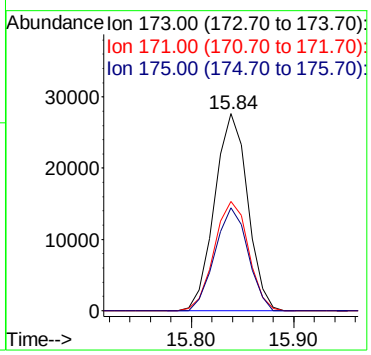


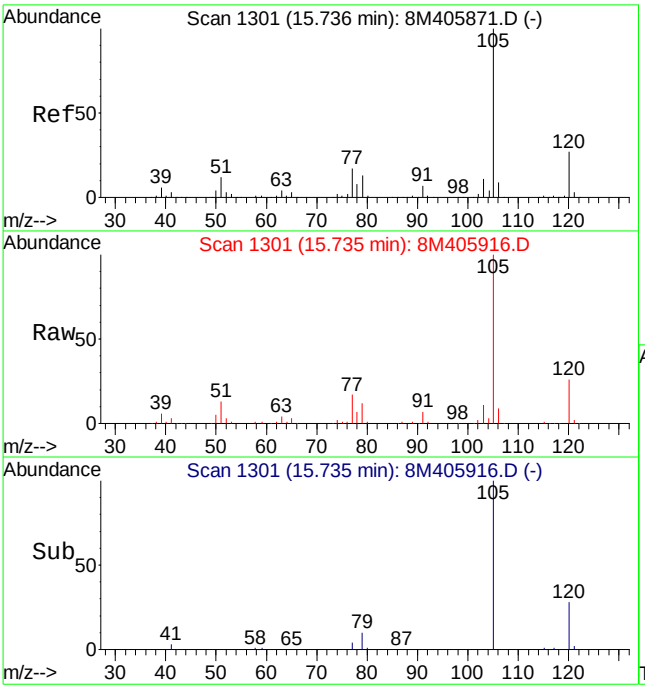


#76
Bromoform
Concen: 18.69 ug/L
RT: 15.84 min Scan# 1311
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:173 Resp: 62129

Ion	Ratio	Lower	Upper
173	100		
171	57.1	30.5	71.1
175	51.9	29.8	69.4

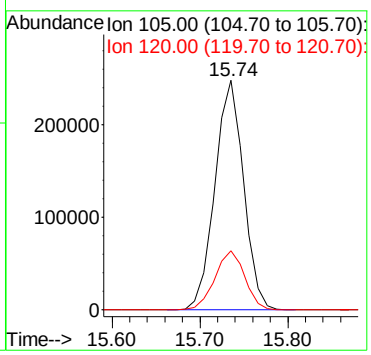


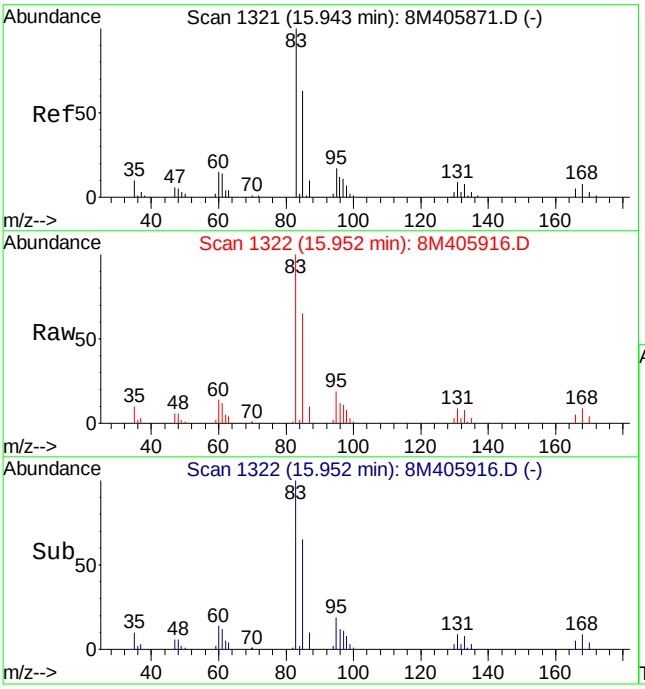


#77
Isopropylbenzene
Concen: 20.99 ug/L
RT: 15.74 min Scan# 1301
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:105 Resp: 562194

Ion	Ratio	Lower	Upper
105	100		
120	26.6	16.0	37.2

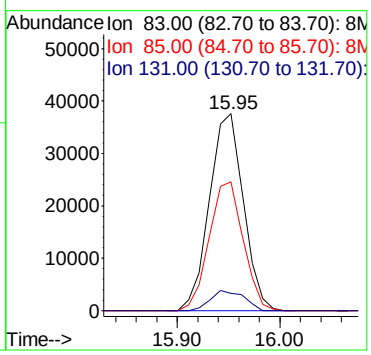


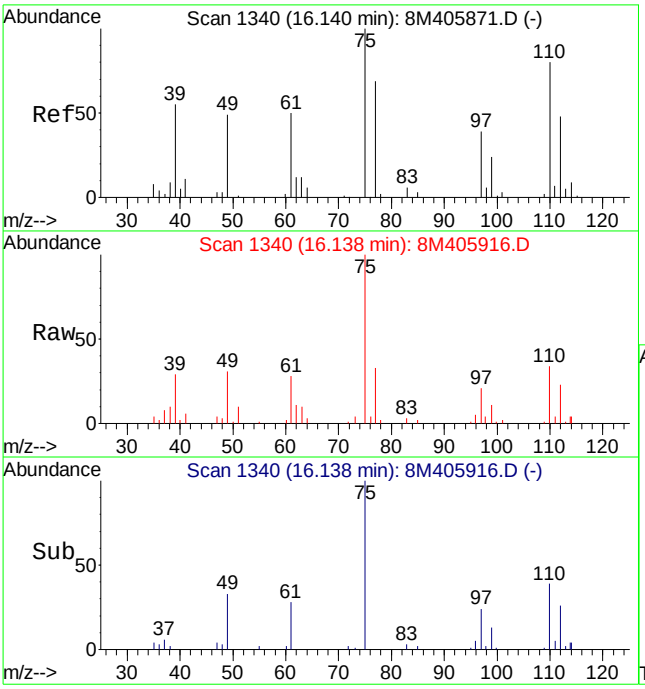


#79
1,1,2,2-Tetrachloroethane
Concen: 21.12 ug/L
RT: 15.95 min Scan# 1322
Delta R.T. 0.01 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 83 Resp: 86599

Ion	Ratio	Lower	Upper
83	100		
85	65.5	38.3	89.3
131	10.0	5.8	13.4

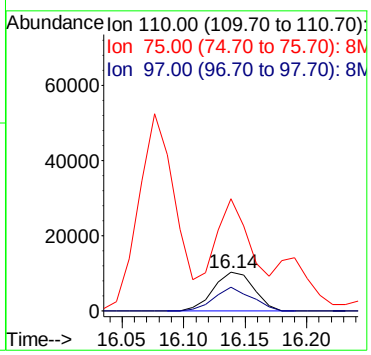


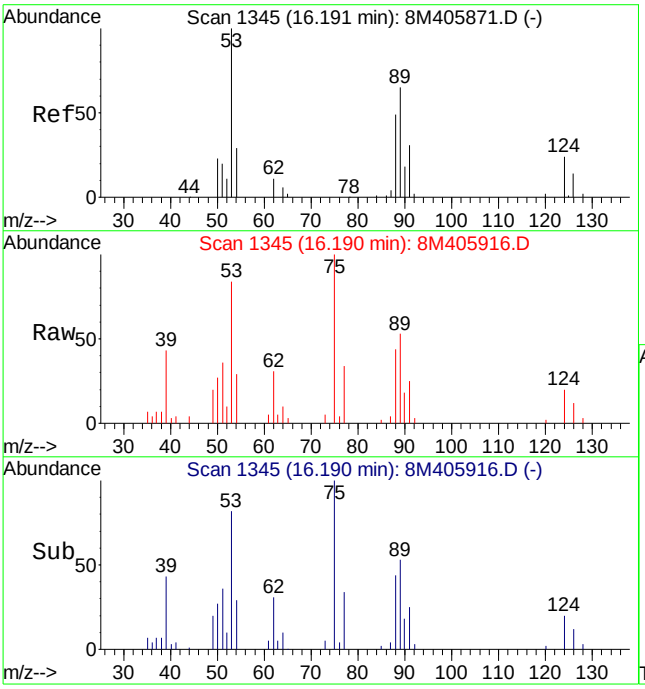


#81
1,2,3-Trichloropropane
Concen: 19.90 ug/L
RT: 16.14 min Scan# 1340
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:110 Resp: 23434

Ion	Ratio	Lower	Upper
110	100		
75	170.5	168.8	393.8
97	56.3	31.0	72.2

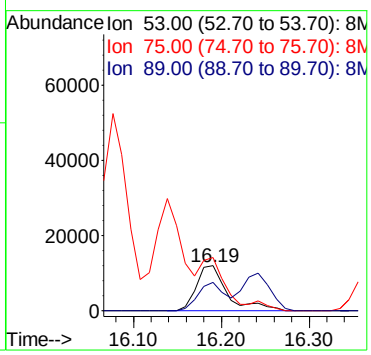


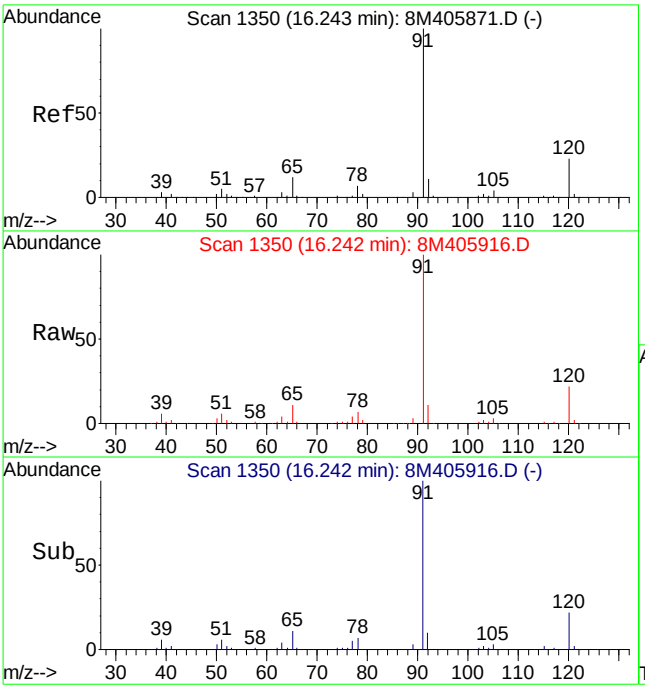


#82
trans-1,4-Dichloro-2-Butene
Concen: 19.88 ug/L
RT: 16.19 min Scan# 1345
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 53 Resp: 29080

Ion	Ratio	Lower	Upper
53	100		
75	137.4	58.5	136.5#
89	54.7	33.5	78.1

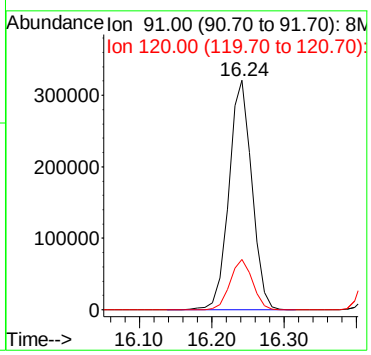


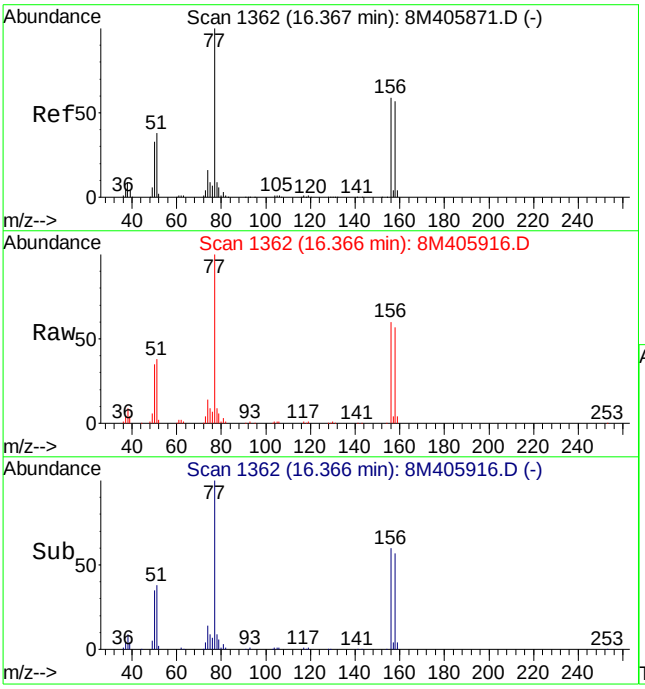


#83
n-Propylbenzene
Concen: 21.65 ug/L
RT: 16.24 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 91 Resp: 714894

Ion	Ratio	Lower	Upper
91	100		
120	21.5	13.1	30.5

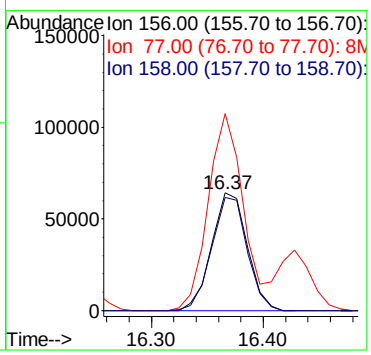


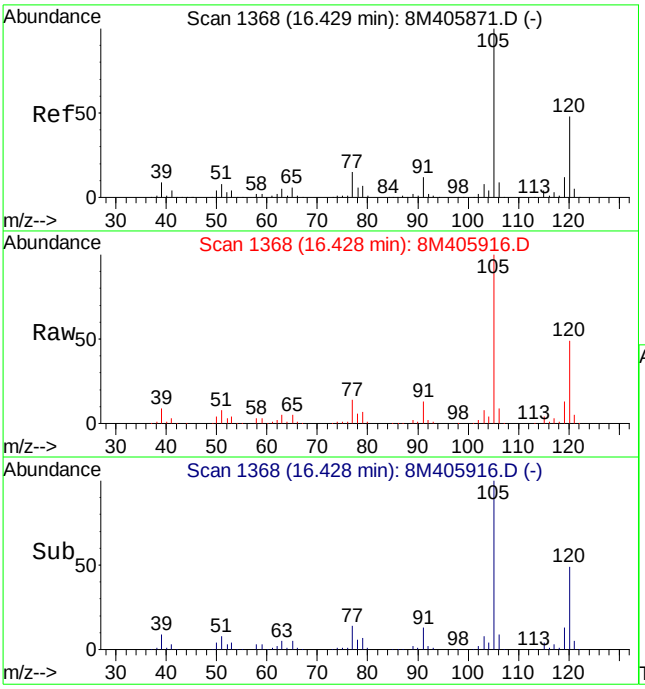


#84
Bromobenzene
Concen: 21.07 ug/L
RT: 16.37 min Scan# 1362
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:156 Resp: 141959

Ion	Ratio	Lower	Upper
156	100		
77	168.8	100.2	233.8
158	95.9	58.1	135.7

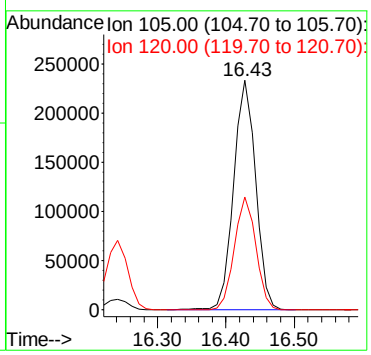


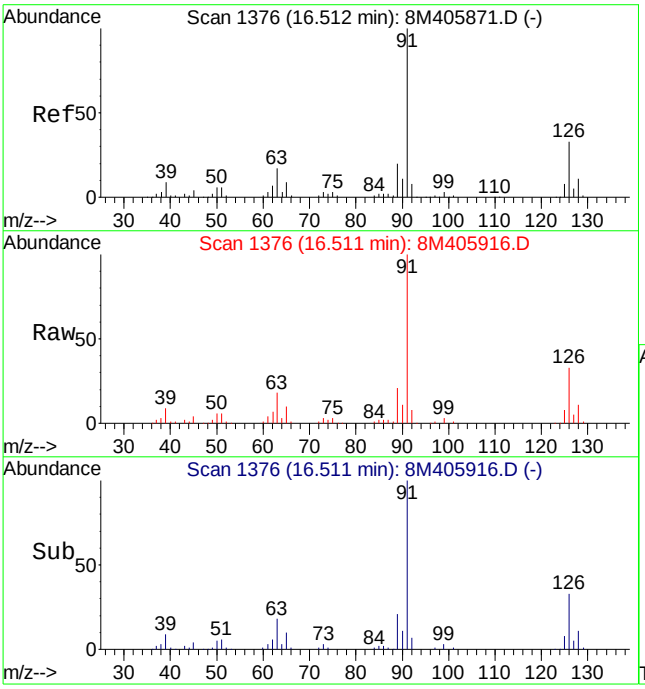


#85
1,3,5-Trimethylbenzene
Concen: 22.70 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:105 Resp: 522784

Ion	Ratio	Lower	Upper
105	100		
120	48.0	28.8	67.2

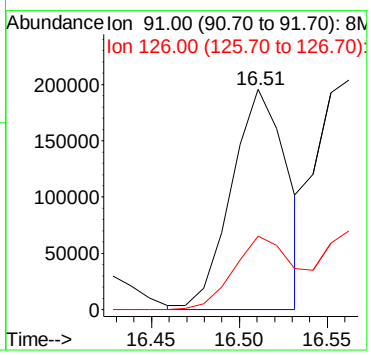


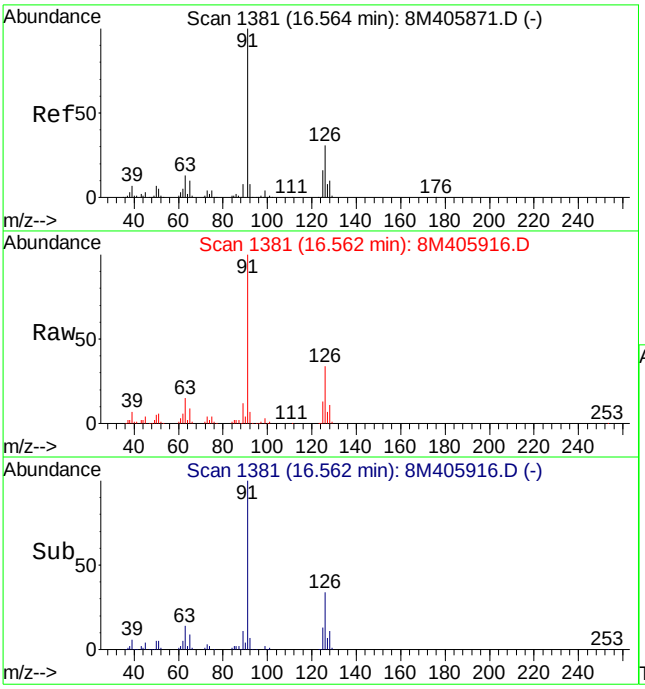


#86
2-Chlorotoluene
Concen: 20.71 ug/L
RT: 16.51 min Scan# 1376
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 91 Resp: 431951

Ion	Ratio	Lower	Upper
91	100		
126	37.9	19.4	45.4

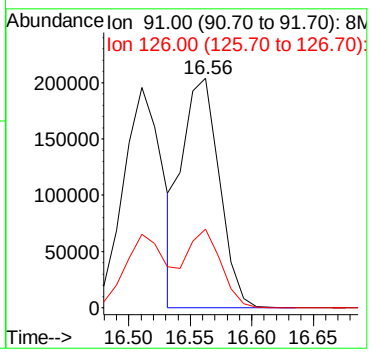


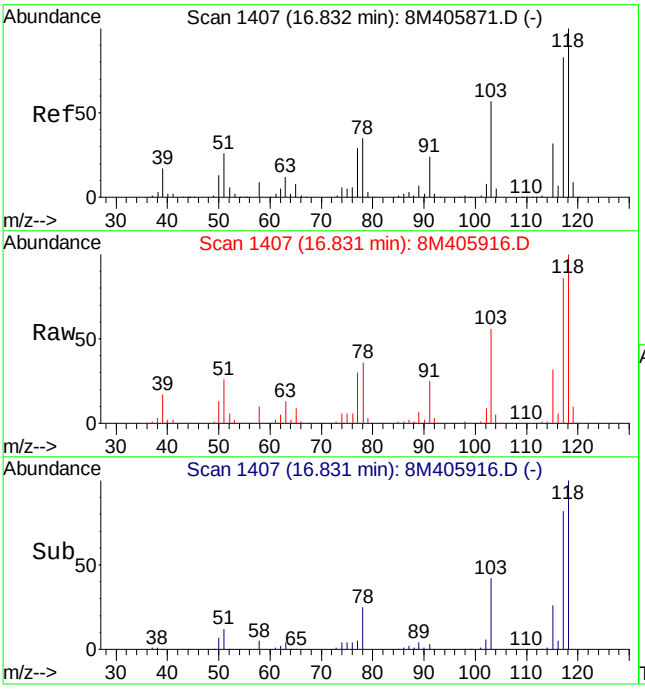


#87
4-Chlorotoluene
Concen: 20.30 ug/L
RT: 16.56 min Scan# 1381
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 91 Resp: 428763

Ion	Ratio	Lower	Upper
91	100		
126	28.4	19.7	45.9

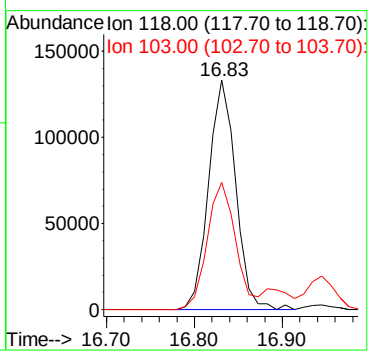


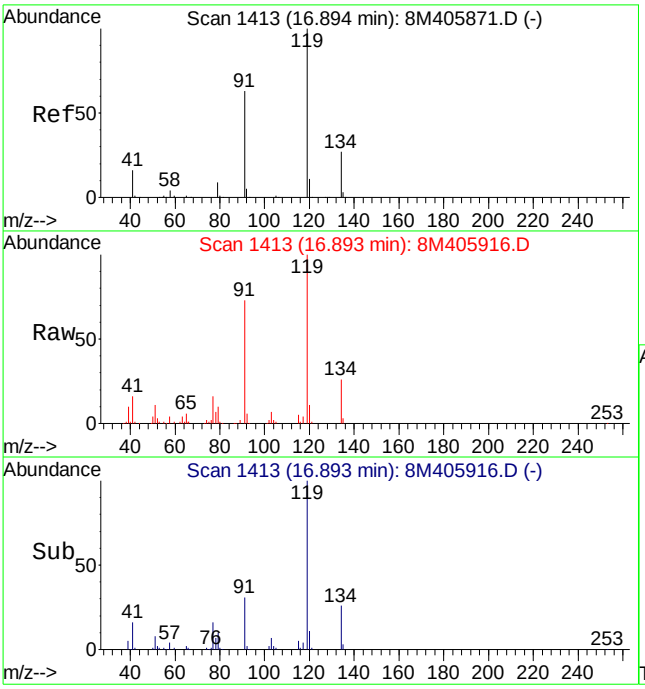


#88
a-Methylstyrene
Concen: 23.46 ug/L
RT: 16.83 min Scan# 1407
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:118 Resp: 286674

Ion	Ratio	Lower	Upper
118	100		
103	58.6	35.9	83.7

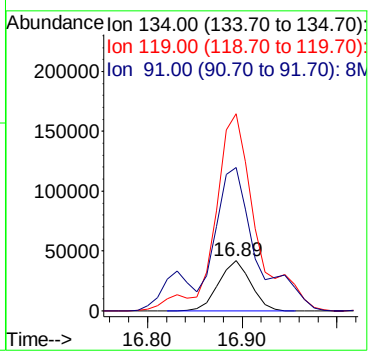


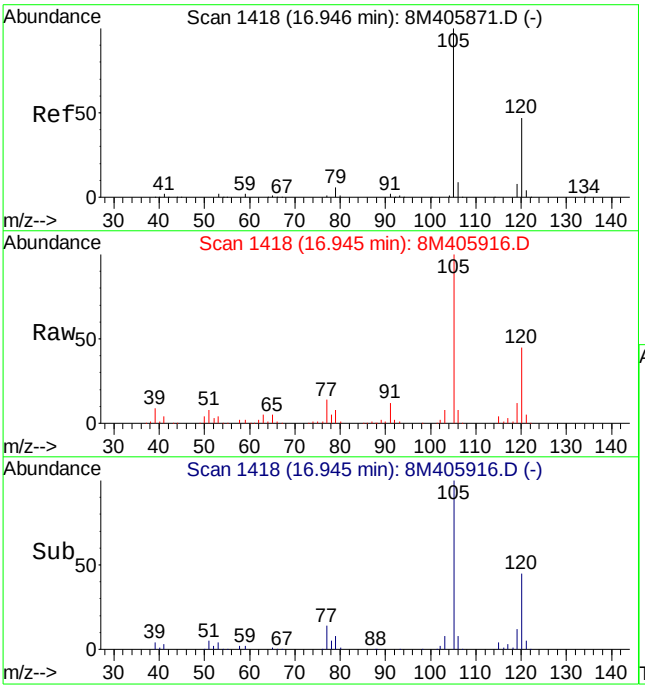


#89
tert-Butylbenzene
Concen: 21.13 ug/L
RT: 16.89 min Scan# 1413
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:134 Resp: 99170

Ion	Ratio	Lower	Upper
134	100		
119	501.2	293.9	685.7
91	360.8	214.9	501.3

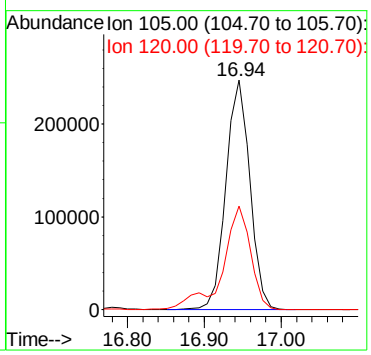


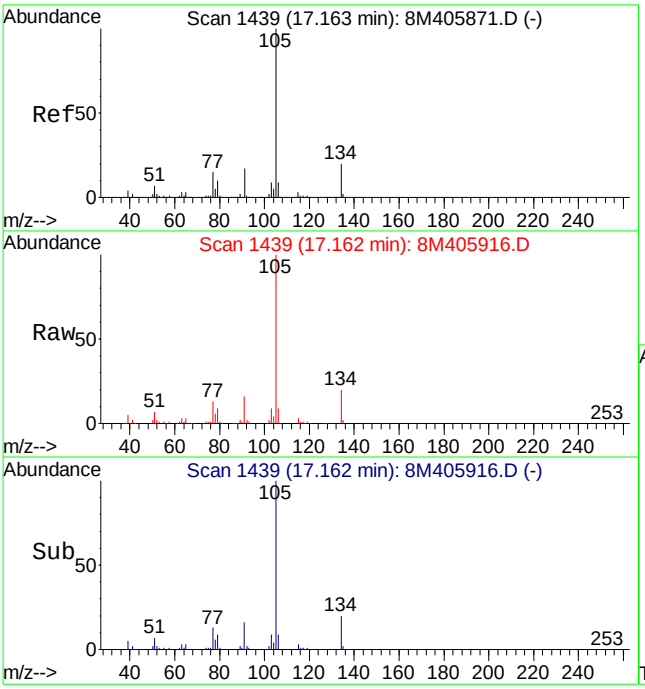


#90
1,2,4-Trimethylbenzene
Concen: 22.77 ug/L
RT: 16.94 min Scan# 1418
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:105 Resp: 534691

Ion	Ratio	Lower	Upper
105	100		
120	52.7	32.3	75.5

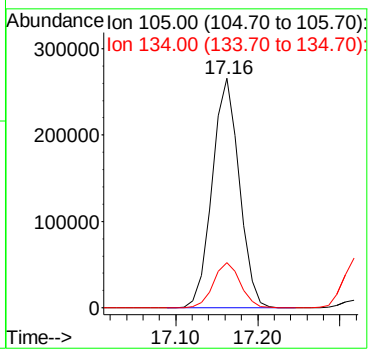


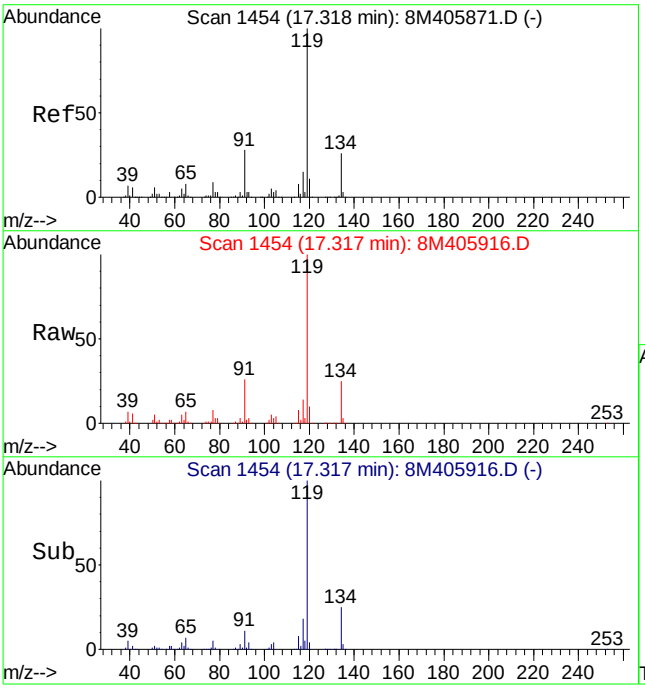


#91
sec-Butylbenzene
Concen: 22.17 ug/L
RT: 17.16 min Scan# 1439
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:105 Resp: 608407

Ion	Ratio	Lower	Upper
105	100		
134	19.6	11.8	27.4

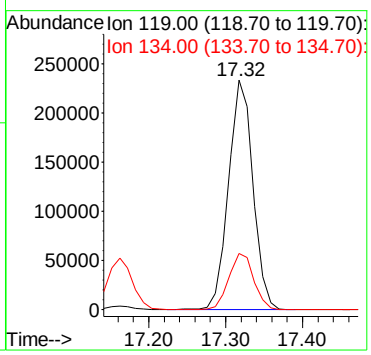


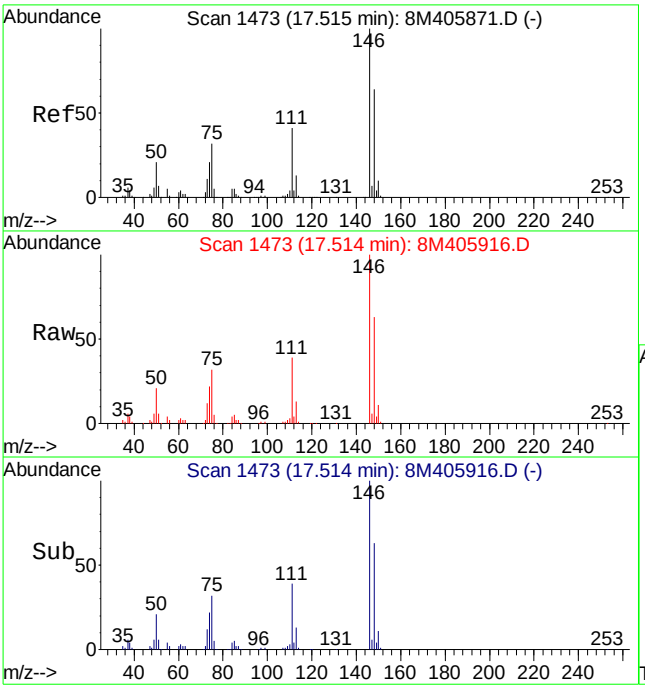


#92
p-Isopropyltoluene
Concen: 21.55 ug/L
RT: 17.32 min Scan# 1454
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:119 Resp: 513977

Ion	Ratio	Lower	Upper
119	100		
134	25.1	15.8	36.8

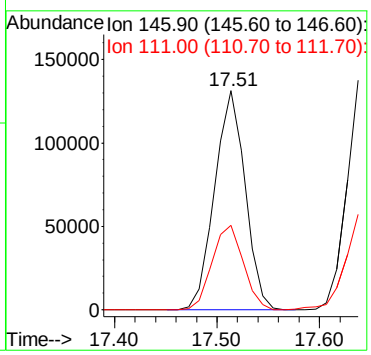


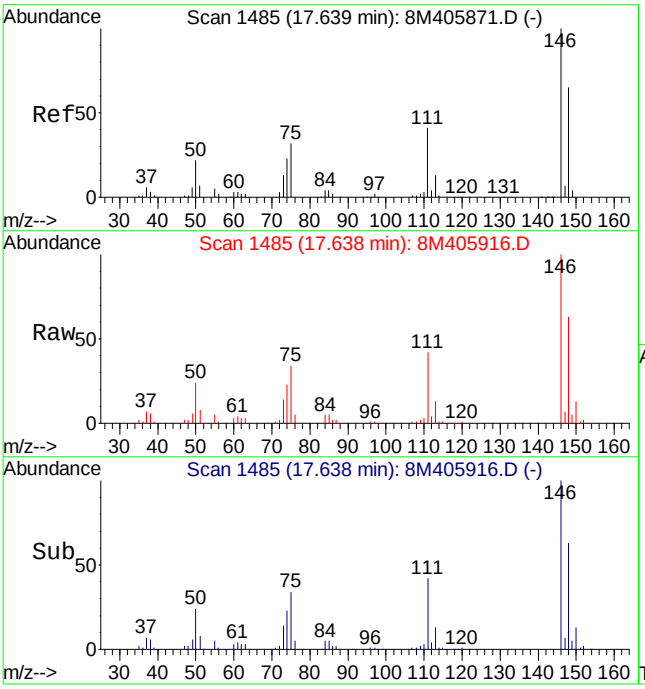


#93
1,3-Dichlorobenzene
Concen: 20.26 ug/L
RT: 17.51 min Scan# 1473
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:146 Resp: 271756

Ion	Ratio	Lower	Upper
146	100		
111	39.6	25.0	58.2

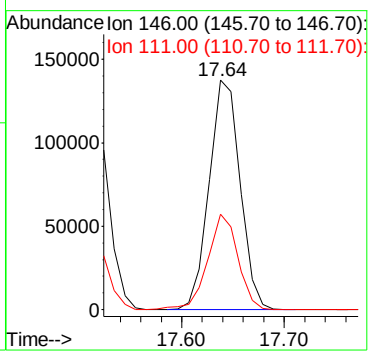


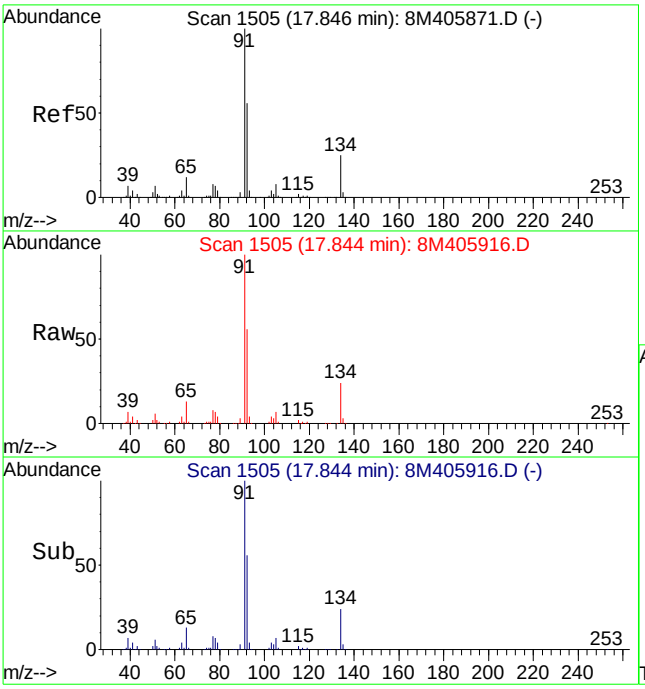


#94
1,4-Dichlorobenzene
Concen: 21.11 ug/L
RT: 17.64 min Scan# 1485
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:146 Resp: 288904

Ion	Ratio	Lower	Upper
146	100		
111	40.6	24.7	57.7

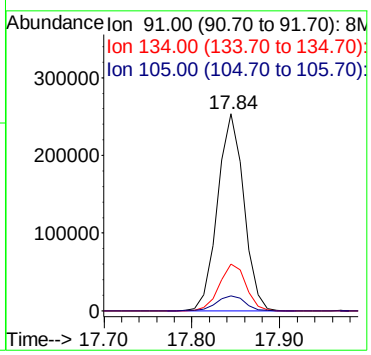


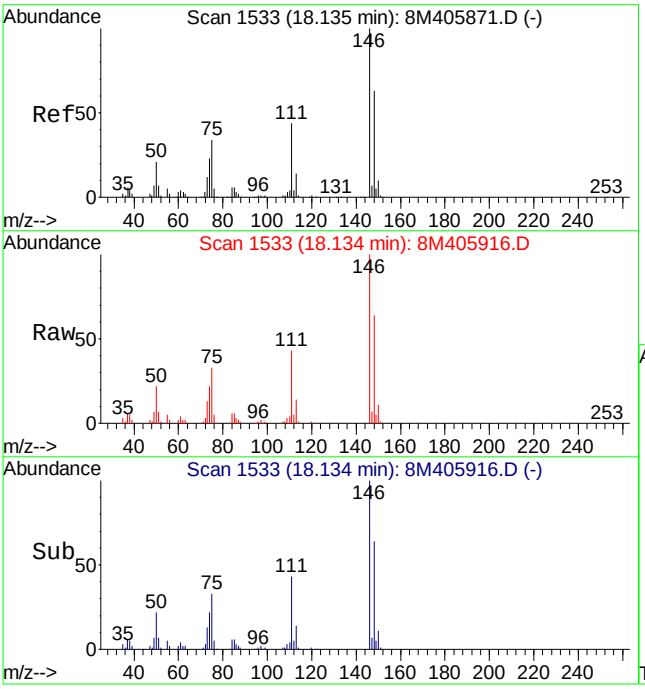


#95
n-Butylbenzene
Concen: 22.56 ug/L
RT: 17.84 min Scan# 1505
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 91 Resp: 527718

Ion	Ratio	Lower	Upper
91	100		
134	24.1	14.4	33.6
105	8.2	5.0	11.8

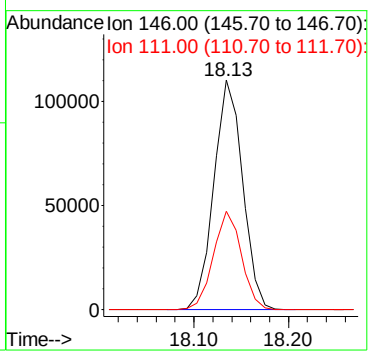


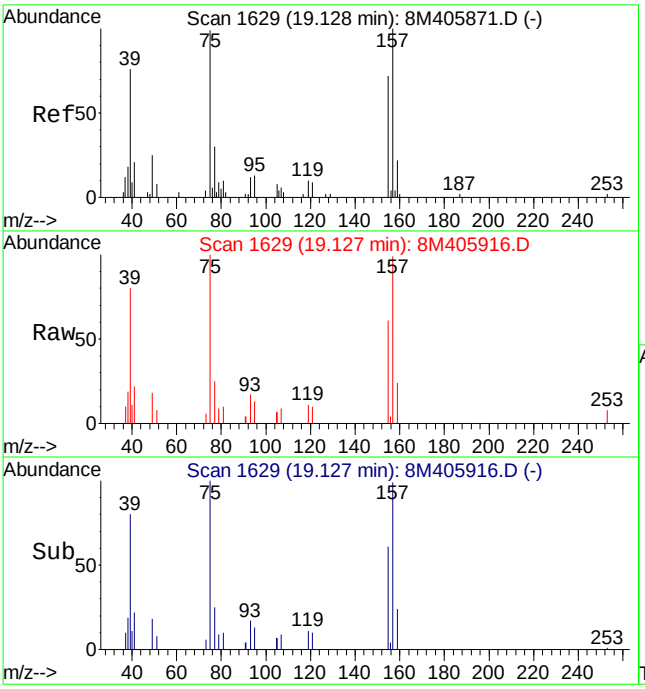


#96
1,2-Dichlorobenzene
Concen: 19.59 ug/L
RT: 18.13 min Scan# 1533
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:146 Resp: 234642

Ion	Ratio	Lower	Upper
146	100		
111	41.8	25.5	59.5

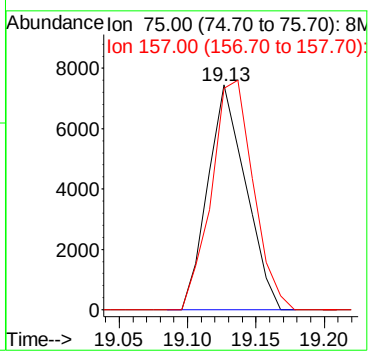


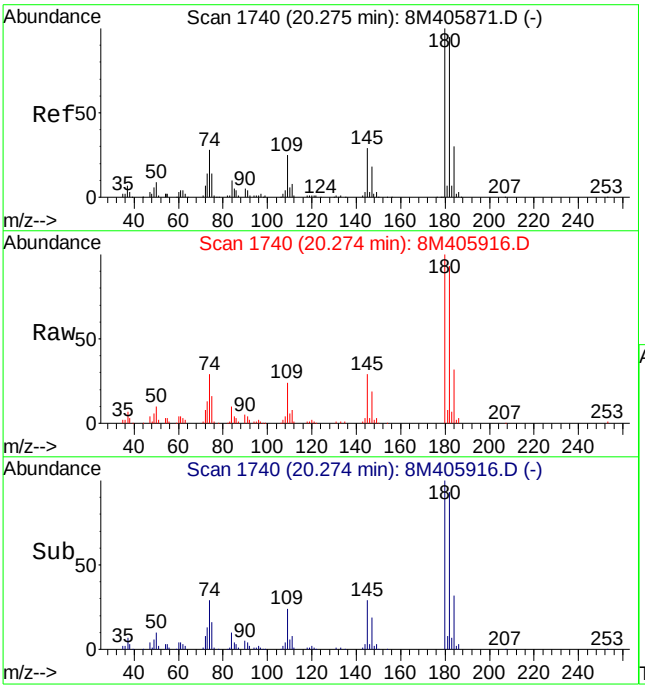


#97
1,2-Dibromo-3-Chloropropane
Concen: 19.80 ug/L
RT: 19.13 min Scan# 1629
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion: 75 Resp: 14360

Ion	Ratio	Lower	Upper
75	100		
157	112.8	61.0	142.4

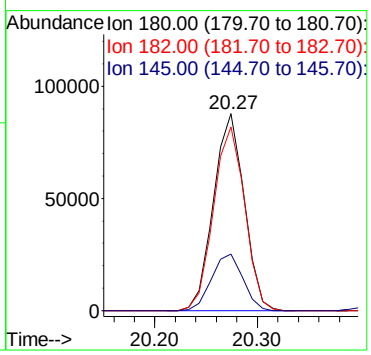


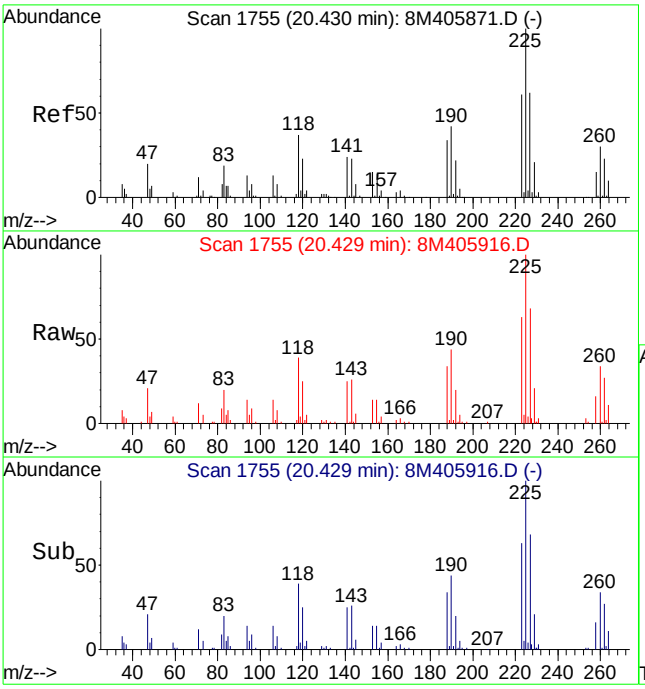


#98
1,2,4-Trichlorobenzene
Concen: 20.37 ug/L
RT: 20.27 min Scan# 1740
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:180 Resp: 182754

Ion	Ratio	Lower	Upper
180	100		
182	94.6	57.1	133.1
145	29.2	18.0	42.0

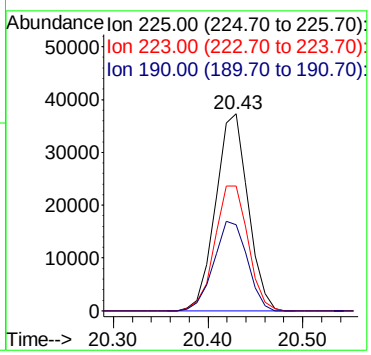


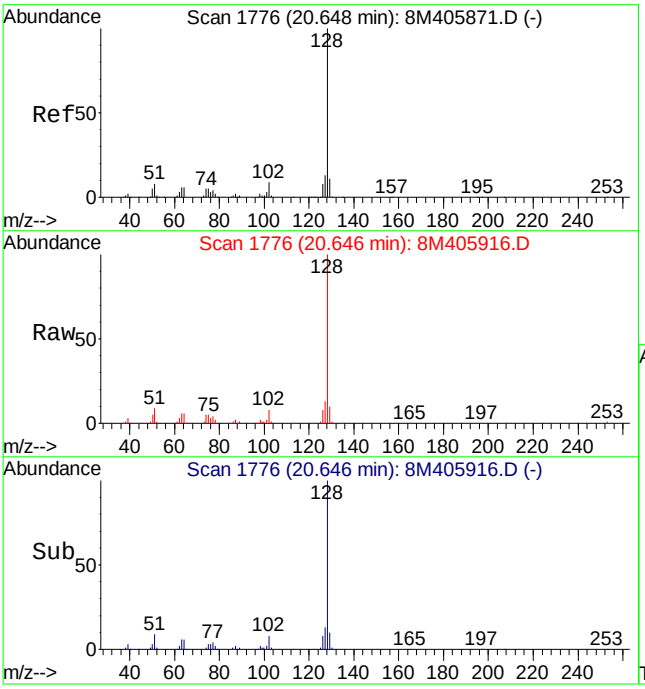


#99
Hexachlorobutadiene
Concen: 19.88 ug/L
RT: 20.43 min Scan# 1755
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:225 Resp: 89446

Ion	Ratio	Lower	Upper
225	100		
223	64.8	37.4	87.4
190	46.7	26.6	62.2

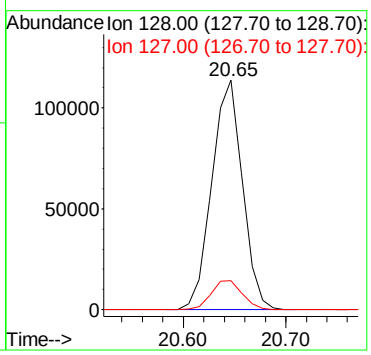


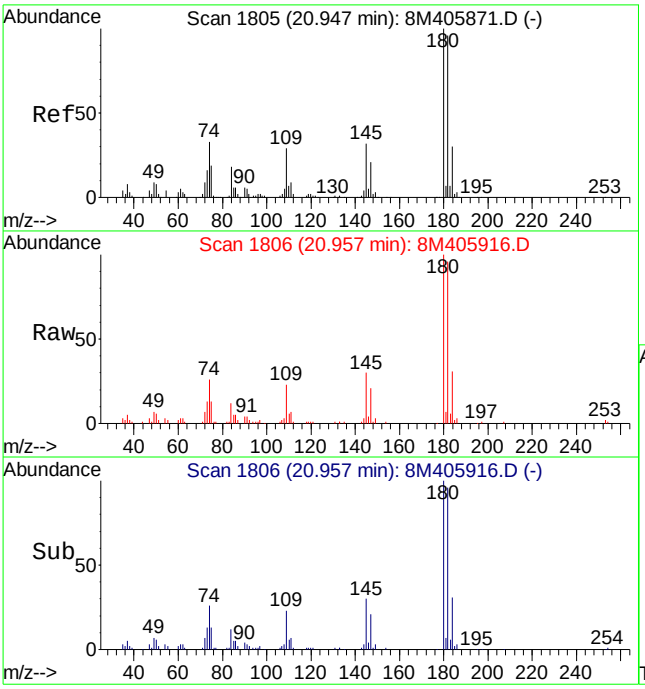


#100
Naphthalene
Concen: 19.94 ug/L
RT: 20.65 min Scan# 1776
Delta R.T. -0.00 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:128 Resp: 235872

Ion	Ratio	Lower	Upper
128	100		
127	12.9	8.0	18.6

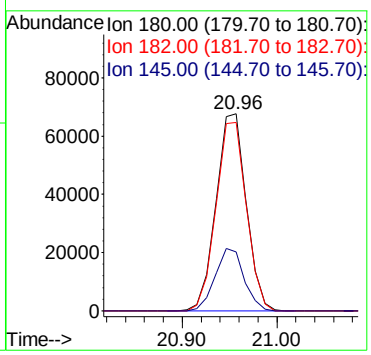




#101
1,2,3-Trichlorobenzene
Concen: 19.39 ug/L
RT: 20.96 min Scan# 1806
Delta R.T. 0.01 min
Lab File: 8M405916.D
Acq: 6 Jul 2015 18:53

Tgt Ion:180 Resp: 151234

Ion	Ratio	Lower	Upper
180	100		
182	95.9	58.3	135.9
145	30.3	18.2	42.4



3.0 Attachments

Microbac Laboratories Inc.
Ohio Valley Division Analyst List
July 13, 2015

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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	AC – AMBER R. CARMICHAEL
ADC – ANTHONY D. CANTER	ADG – APRIL D. GREENE
AED – ALLEN E. DAVIS	ALS – ADRIANE L. STEED
AWE – ANDREW W. ESSIG	AZH – AFTER HOURS
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. KETELSEN
DCM – DAVID C. MERCKLE	DEV – DAVID E. VANDENBERG
DIH – DEANNA I. HESSON	DLB – DAVID L. BUMGARNER
DLP – DOROTHY L. PAYNE	DLW – DIANA L. WRIGHT
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. STE MARIE
JKP – JACQUELINE K. PARSONS	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
KAT – KATHY A. TUCKER	KDW – KATHRYN D. WELCH
KEB – KATIE E. BARNES	KHR – KIM H. RHODES
KKB – KERRI K. BUCK	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
PRL – PAIGE R. LAMB	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
RST – ROBIN S. TURNER	SAV – SARAH A. VANDENBERG
SCB – SARAH C. BOGOLIN	SDC – SHALYN D. CONLEY
SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF
TB – TODD BOYLE	TGF – TIM G. FELTON
TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
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 13, 2015

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, S	Not detected; analyzed by method of standard addition (MSA)
ND,L	Not detected; sample reporting limit (RL) elevated due to interference
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

L15061450 / Revision: 0 / 621 total pages

leidos

301 Laboratory Road, Oak Ridge, Tennessee 37831(865) 482-9031

CHAIN OF CUSTODY RECORD

COC NO.: 1

PROJECT NAME: Gabreski ANG Base

PROJECT NUMBER: 206789.00.0198.8002.03.354

PROJECT MANAGER: Mike Poligone

Sampler (Signature) (Printed Name): Zach Steele

LABORATORY NAME: Microbac Laboratories, Inc. Ohio Valley Division

LABORATORY ADDRESS: 158 Starlite Drive Marietta, OH 45750

PHONE NO: 800-373-4071

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	1 (VOC)	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
TB057	6-23-15	0730	DI	X	2		Trip Blank
~~SW62SW0620~~	6-23-15	1310	GW	X	3		
SW0620D	6-23-15	1310	GW	X	3		Duplicate
SW0620MS	6-23-15	1310	GW	X	3		Matrix Spike
SW0620MSD	6-23-15	1310	GW	X	3		matrix Spike Dup
PZ407	6-23-15	1420	GW	X	3		
MW04GW04R04	6-23-15	1625	GW	X	3		
MW04GW0214	6-23-15	1745	GW	X	3		
SDW23AR03	6-24-15	1115	GW	X	3		
SW0718	6-24-15	0934	GW	X	3		
MW04GW0511	6-24-15	1430	GW	X	3		
MW04GW0112	6-24-15	1255	GW	X	3		
FB018	6-24-15	1100	DI	X	3		

RELINQUISHED BY: | Date/Time: 6-24-15 1830 | RECEIVED BY: | Date/Time

COMPANY NAME: Leidos | COMPANY NAME:

TOTAL NUMBER OF CONTAINERS: 41

Cooler ID: 1 of 1

Cooler Temperature:

FEDEX NUMBER: 8042 4543 8952

RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time

COMPANY NAME: | COMPANY NAME: | Date/Time

Microbac OVD
Received: 06/25/2015 10:23
By: CARA STRICKLER
221000071733

Cara Strickler

Standard 5-DAY TAT

1 3 - 40 ml Glass Vials, HCL to pH < 2, 4C

ER034 - 6-24-15 (Date) - 1110 (time) | X VOC | 3 # | Equipment Rinsate

Generated: 07/13/2015 08:53

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L15061450
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 02-JUL-2015

Samplenum	Container ID	Products
L15061450-01	593131	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:52	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:52	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Samplenum	Container ID	Products
L15061450-02	593132	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	ORG4	25-JUN-2015 16:31	CLS		
2	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:52	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:52	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

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: L15061450
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 02-JUL-2015

Samplenum	Container ID	Products
L15061450-03	593133	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:52	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Samplenum	Container ID	Products
L15061450-04	593134	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

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: L15061450
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 02-JUL-2015

Samplenum	Container ID	Products
L15061450-05	593135	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Samplenum	Container ID	Products
L15061450-06	593136	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

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: L15061450
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 02-JUL-2015

Samplenum	Container ID	Products
L15061450-07	593137	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER		25-JUN-2015 16:31	CLS		

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Samplenum	Container ID	Products
L15061450-08	593138	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

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: L15061450
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 02-JUL-2015

Samplenum	Container ID	Products
L15061450-09	593139	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Samplenum	Container ID	Products
L15061450-10	593140	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

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: L15061450
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 02-JUL-2015

Samplenum	Container ID	Products
L15061450-11	593141	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Samplenum	Container ID	Products
L15061450-12	593142	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	ORG4	25-JUN-2015 16:31	CLS		
2	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:40	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:39	CLS	AWE	

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: L15061450
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 02-JUL-2015

Samplenum	Container ID	Products
L15061450-13	593143	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:39	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:39	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:39	CLS	AWE	

Samplenum	Container ID	Products
L15061450-14	593144	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:39	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:39	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:39	CLS	AWE	

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: L15061450
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 02-JUL-2015

Samplenum	Container ID	Products
L15061450-15	593145	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:39	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:39	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	25-JUN-2015 16:31	CLS		
2	ANALYZ	V1	ORG4	26-JUN-2015 07:51	AWE	CLS	
3	STORE	ORG4	A2	09-JUL-2015 07:39	CLS	AWE	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

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)
Propionaldehyde (HPLC-UV)
n-Butane (RSK175)

SOLID AND HAZARDOUS CHEMICALS
Nitrogen, Ammonia by Method 350.1
Chromium, Hexavalent, Leachable by SM3500 Cr-B 2009
Phenolics, Total by Method 420.1
ASTM D3987-06

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 MSV01/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 HPLC07/HPLC-MS-MS

Hexamethylphosphoramide (XMPA-LCMS)

OVL HPLC12/HPLC/UV

Acetate
Formate

OVL RSK01/GC-FID

Acetylene
Propane

OVL K9305/ISE

Fluoroborate

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)

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OCTOBER 2015

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LEIDOS
Laboratory Data Verification Checklist

Project: Gabreski

SDG No: L15101278

Analyte Group: VOC
Sample Matrix: water
EDD (Y/N):

Disposition of Data Package:
NCR No. (if applicable):

1. Case Narrative

Read SDG Case Narrative	Y
Check Laboratory sample ID vs. Project sample ID lists	Y
Check that discussion covers each analytical type included in the SDG	Y
Check for identified nonconforming items (e.g., missed holding times, etc.)	Y

2. Chain-of-Custody (COC)

Check COC sample collection, shipping, and receiving dates	Y
Check that COC signature blocks are complete	Y
Check COC project sample IDs vs. Lab IDs and Result Form IDs	Y
Match COC requested analyses with Case Narrative and with data package content (Result Forms)	Y

3. Analytical Results Form

Verify that a Result Form is present for each sample and analysis	Y
On each Result Form check:	
SDG No.	Y
Sample ID	Y
Lab ID	Y
Date Collected	Y
Date Extracted	Y
Date Analyzed	Y
Result Matrix	Y
Result Units	Y

4. Project Verification

Check project analyte list vs. analytes reported	Y
Check project requested methods vs. analytical methods performed	Y
Check analyte reporting levels vs. project reporting level goals	Y

5. Analytical Quality Control Information

Check for surrogate recovery results (e.g., org. form II)		Y
Check for LCS results (e.g., org. form III, inorg. form XII)		Y
Check for method blank results (e.g., org. form IV, inorg. form III)		Y
Check for MS/MSD results (e.g., inorg. form V)		Y
Check for laboratory duplicate results (e.g., inorg. form VI)		NA
Check for Method Calibration and Run Documentation		
organic:	instrument performance check	Y
	initial calibration data	Y
	continuing calibration data	Y
	internal standard areas	Y
	internal standard retention times	Y
	sample clean-up documentation (org. forms V through X)	Y
metal:	initial calibration data	
	continuing calibration data	
	method detection limits	
	method linear range	
	sample run sequence (inorg. forms II, IV, and VIII through XIV)	
other:	initial calibration data	
	continuing calibration data	
	method detection limits	
	sample run sequence	

6. Incorrect Information

Identify missing items or incorrect information (i.e., missing forms, unsigned forms, incorrect sample IDs, etc.)

Contact the laboratory or project personnel to obtain missing information or correct information

Document corrections below:

7. Nonconforming Items

Document all nonconforming items that can not be resolved above in a Non-Conformance Report (NCR), complete form, file, and follow-up

NCR # Item

Reviewed By: Brooke Francis Date: 11/19/15

QA Review By: Joseph C Peters Date: 11/19/15

LEIDOS
Laboratory Data Package Detail Form

Project: Gabreski

SDG No: L15101278

Analyte Group: VOC

Field Sample ID	Lab ID #	Matrix	Analysis	Notes:
SW0719	L15101278-001	W	VOC	
MW04GW0113	L15101278-002			
MW04GW0215	L15101278-003			
MW04GW0314	L15101278-004			
MW04GW04R05	L15101278-005			
MW04GW0512	L15101278-006			
PZ408	L15101278-007			
SDW23AR04	L15101278-008			
SW0621D	L15101278-009			
SW0621	L15101278-010			MS/MSD
ER035	L15101278-013			
TB058	L15101278-014			
FB019	L15101278-015			

Comments:

LEIDOS
Organic Data Review Checklist

Project: Gabreski

SDG No: 15101278

Analysis: VOC

Method: 8260B

Laboratory: Microbac

Matrix: water

The above data package has been reviewed and the analytical quality control/quality assurance performance data have been summarized. The general criteria used to assess the analytical integrityof the data were based on an examination of the following:

Case Narrative	Analytical Surrogate Recoveries
Analytical Holding Times	Internal Standard Performance
Sample Preservation	MS/MSD Recoveries and Differences
Method Calibration	LCS Recoveries
Method and Project Blanks	Re-analysis and Secondary Dilution

Project Specific QA/QC or contract requirements may take priority over validation criteria in this procedure.

Overall Remarks: QSM Control limits were used

Some results were qualified U due to method blank contamination

Some results were qualified J/UJ due to LCS and calibration discrepancies

QA review of data validation found no discrepancies.

Definition of Qualifiers:

"U", not detected at the associated level
"UJ", not detected and associated value estimated
"J", associated value estimated
"R", associated value unusable or analyte identity unfounded
"=", compound properly identified and value positive

Reviewed by: Brooke Francis Date: 11/19/15

QA Reviewed by: Joseph C Peters Date: 11/19/15

I. Case Narrative

Verify direct statements made within the Laboratory Case Narrative (note discrepancies).

Remarks: MB contamination was not noted in the narrative

II. Re-analysis and Secondary Dilutions

Verify that re-analysis and secondary dilutions were performed and reported as necessary. Determine appropriate results to report.

Remarks: No samples were reanalyzed or diluted

III. Holding Times

VOC - Waters - unpreserved: aromatic within 7 days, non-aromatic within 14 days of sample collection
VOC - Waters - preserved: aromatic and non-aromatic within 14 days of sample collection
VOC - Soils - preserve or analyze within 48 hours of sample collection; analyze within 14 days of preservation

SVOC, Pest., PCB - Waters - extract within 7 days of sample collection, analyze within 40 days of extraction
SVOC, Pest., PCB - Soils - extract within 14 days of sample collection, analyze within 40 days of extraction

Deviations:

Sample #	VOC		SVOC			Pest/PCB		
	Date Collected	Date Analyzed	Date Collected	Date Extracted	Date Analyzed	Date Collected	Date Extracted	Date Analyzed

Actions:
1. If holding times are exceeded, all results are qualified as estimated (J/UJ)
2. If holding times are exceeded by more than 2X, reviewer may qualify non-detected results as unusable (R)

Remarks: All holding times were met

IV. System Monitoring Compounds (SMC) Recoveries (VOC, SVOC, Pesticides, PCBs)

List SMC compounds with unacceptable recoveries:

Note: SMC formerly known as surrogates.

Deviations:

Sample #	VOC			SVOC B/N Compounds			SVOC Acid Compounds			Pest	PCB
	TOL	BFB	DCE	NBZ	FBP	TPH	PHL	2FP	TBP	TCX	DCB
QC Limits											

Actions:

1. If any SMC recovery is <10%, qualify all positive results in associated fractions as estimated (J)
2. If any SMC recovery is <10%, qualify all nondetects in associated fractions as unusable (R)
3. If SMC recoveries fall between 10% and the lower recovery limit, qualify results as estimated (J/UJ)
4. If SMC recoveries fall above the upper recovery limit, qualify positive results as estimated (J)
5. Use professional judgement to qualify Pest/PCB results when SMC recoveries are >10%
6. Use professional judgement to qualify results when SMC recoveries have been diluted out of spec.
7. For SVOC, qualification of the data is required only when 2 or more SMC per fraction are not within control limits

Remarks: All surrogates met control limits

V. Internal Standards Performance (VOC, SVOC)

VOC internal standard area counts within -50% to +100% of standard (Y/N)
VOC internal standard retention times within ± 30 seconds of standard (Y/N)

SVOC internal standard area counts within -50% to +100% of standard (Y/N)
SVOC internal standard retention times within + 30 seconds of standard (Y/N)

Deviations:

Sample #	IS Affected	Area Counts	Acceptable Range	RT	Std. RT Value

Actions:

1. If area counts are outside limits, qualify positive results associated with that IS as estimated (J)
2. Non-detected compounds quantitated using an IS area count >100% should not be qualified
3. Non-detected compounds quantitated using an IS area count <50%, qualify as estimated (UJ)
4. If extremely low area counts are reported (<50% of the lower limit), qualify non-detects as unusable (R)
5. If an IS retention time varies more than 30 seconds, review the chromatographic profile for shifts and irregularities. Use professional judgement to qualify the data estimated (J/UJ) or unusable (R)

Remarks: All IS criteria were met

VI. Blanks

All blanks were reported per matrix per concentration level for each 12 hour period on each GC/ MS system used to analyze VOCs and SVOCs Yes / No

Review associated laboratory and project blank samples. List documented contamination below:

Laboratory Method Blanks:

Date:	Lab ID #	Fraction	Compound	Conc. (ppb)
10/22/15	MB 544006		Methylene Chloride	0.420 ug/L

Associated Project Blanks (e.g., equipment rinsates, trip blanks, etc.)

Date	Lab ID #	Fraction	Compound	Conc. (ppb)
10/21/15	ER035		2-butanone	4.53
	↓		Acetone	19.2
10/20/15	FB019		2-butanone	4.64
	↓		Acetone	19.7

Remarks:

VI. Blanks (continued)

Calculate action levels based on 10X the highest blank concentration of "common laboratory solvents", VOCs (methylene chloride, acetone, toluene, 2-butanone, cyclohexane) or SVOCs (phthalates), and 5X the highest blank concentration for all other VOC, SVOC, Pesticides, and PCB compounds. Sample weights, volumes, and dilution factors must be taken into account when applying the 5X and 10X criteria. This allows the total amount of contaminant present to be considered.

Deviations:

	Compound	Maximum Conc. Detected, (ppb)	Action Level (ppb)	Samples Affected
MB	Methylene Chloride	0.420 ug/L	4.2 ug/L	L15101278-01-07
RB	2-butanone	4.53 ug/L	45.3 ug/L	All samples
	Acetone	19.2 ug/L	192 ug/L	↓
FB	2-butanone	4.64 ug/L	46.4 ug/L	All samples
	Acetone	19.7 ug/L	197 ug/L	↓

Actions:

1. If compound results exceed the action levels, the data are not qualified
2. If compound results are below the required reporting level, report results as non-detect (U) at the reporting level
3. If the compound is detected above the reporting level, but below the action level, qualify as not-detected (U)
4. If gross contamination exists in blanks (i.e.,, saturated peaks by GC/ MS), all affected compounds in the associated samles should be qualifed as unusable (R) due to interference.
5. If blanks were not analyzed per matrix per concentration level for each 12 hour period on each GC/MS system used to analyze VOCs and SVOCs use professional judgement to qualifty data. Data may be rejected (R).

Remarks:

VII. Initial & Contining Calibration (VOC, SVOC)

GC/MS instrument performance checks (BFB / DFTPP) Acceptable (Y) or N
All compounds must have and RRF > 0.01, %RSD < 30, and %D < 25

VOC - Date of initial calibration: 8/12/15 9/30/15 10/5/15
VOC - Date(s) of continuing calibration: 10/22/15 10/23/15
Was the 12 hour critieria met? (Y) or N

SVOC- Date of initial calibration:
SVOC - Date(s) of continuing calibration:
Was the 12 hour critieria met? Y or N

Deviations:

Compound	Date	RRF	%RSD	%D	Samples Affected
Carbon Disulfide	8/21/15			-46.4	L15101278-01-07
Vinyl Acetate	↓			104	↓
Vinyl Acetate	9/30/15			83.9	L15101278-08-15
Carbon Disulfide	10/22/15			-30.5	L15101278-01-07
Vinyl Acetate	↓			25%	↓

Actions:

1. If any compound has an intial or continuing RRF of < 0.01, qualify positive results as estimated (J)
2. If any compound has an intial or continuing RRF of < 0.01, qualify non-detects as unusable (R)
3. If any compound has a %RSD >30 or a %D >25, qualify positive results as estimated (J)
4. If any compound has a %RSD >40 or a %D >40, qualify non-detects as estimated (UJ)
5. If BFB or DFTPP mass assignment / ION abundance criteria are all associated data as unusable (R).
6. If samples were analyzed outside the 12 hour BFB or DFTPP performance check time period, qualify the affected sample data as estimated (J/UJ).
7. If separate calibration for water and soil were not performed, use professional judgement to evaluate the data. Data may be rejected (R).
8. If calibrations were not completed within the 12 hour criterion, qualifty all associated data as estimated (J/UJ). If the 12 hour criterion was grossly exceeded, reject all associated data (R).

Remarks:

VIII. Initial & Continuing Calibration (Pesticides, PCBs)

Linearity evaluation, are %RSD <20? Yes or No

Is the RPD between calibration factors ≤25? Yes or No

Are multicomponent calibration data provided for each analysis date? Yes or No

Is the difference between columns check ≤ 25%D? Yes or No

Are 4, 4'- DDT and endrin breakdown (PEM) ≤ 20% and combined breakdown ≤ 30% Yes or No

Deviations:

Compound	%RSD	RPD	Samples Affected

Actions:

1. If %RSD criteria are not met, qualify positive results as estimated (J) and non-detects as estimated (UJ)
2. If RPD criteria are not met, qualify positive results as estimated (J) and non-detects as estimated (UJ)
3. If %D criteria is not met, qualify positive results as estimated (J) and non-detects as estimated (UJ)
4. If breadkwon criteria are not met, positive 4, 4'-DDT and endrin should be qualified as estimated (J). And non-detects should be rejected (R).

Remarks: NA

IX. Matrix Spike/Matrix Spike Duplicate Information

General MS/MSD Criteria:	VOC	SVOC	Pest	PCB
percent recovery (%R)	70-130	45-135	40-140	40-140
relative percent difference (RPD)	<30	<50	<50	<50

Project Sample(s) Spiked: SW0621

Deviations:

Compound	%R	%R Limits	RPD	RPD Limits	Samples Affected
Acetone	144/142	40-140			SW0621 ND, no qual

Actions:

1. If the spike recovery is above the upper control limit (UCL), qualify all positive values in the unspiked sample as estimated (J) and non-detects as estimated (UJ).
2. If the spike recovery is below the lower control limit (LCL), qualifty positive values as estimated (J). And non-detects as estimated (UJ) in the unspiked sample.
3. If the spike recovery is <10%, qualify non-detect values as unusable (R)
4. If the RPD does not meet criteria, qualify positive values in the unspiked sample as estimated (J)
5. Use professional judgement to qualify additional samples in the analytical group based on MS/MSD results
6. Use professional judgement for qualification of data for unspiked compounds

Remarks:

X. Laboratory Control Sample Information

General LCS Criteria:
percent recovery (%R)

VOC	SVOC	Pest	PCB
80-120	60-120	50-130	50-130

Laboratory LCS Identifications: LCS/D 544006, LCS 544056

Deviations:

Compound	Date	%R	Samples Affected/Qualifiers Applied
Carbon Disulfide	10/22/15	32.8/34.8	L15101278-01-07
Vinyl Acetate	↓		33.1%RPD ↓

Actions:

Action should be based on both the number of compounds outside the criterion and the magnitude of the exceedance.

1. If the LCS recovery is below limits but > one- half the lower limit, qualify valves as estimated (J/UJ).
2. If the LCS recovery is < one-half the lower limit, qualify all data for that analyte as unusable (R).
3. If the LCS recovery is greater than the upper limit, qualify positive valves for that analyte as estimated (J).
4. If more than half the compounds in this LCS are not within recovery criteria, then qualify associated detected compounds as estimated (J).
5. Use professional judgement for qualification of data for compounds with no LCS information

Remarks:

Certificate of Analysis

Sample #:	L15101278-01	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	SW0719	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	08/12/2015 18:29
Workgroup #:	WG544006	**Analyst:**	ADC	**Run Date:**	10/22/2015 20:18
Collect Date:	10/21/2015 10:30	**Dilution:**	1	**File ID:**	17M015960
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250	U
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200	U
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250	U
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125	U
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500	U
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200	U
1,2,4-Trimethylbenzene	95-63-6	10.7		1.00	0.500	0.250	=
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250	U
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200	U
1,3,5-Trimethylbenzene	108-67-8	6.66		1.00	0.500	0.250	=
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50	U
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50	U
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50	U
Acetone	67-64-1	17.4		5.00	5.00	2.50	U F02 F03
Benzene	71-43-2	0.250	U	1.00	0.250	0.125	U
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250	U
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500	U
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500	U
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500	UJ C05 P02
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250	U
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125	
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500	
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125	
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500	
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250	
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250	
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00	
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250	
Ethylbenzene	100-41-4	0.758	J	1.00	0.500	0.250	J
Isopropylbenzene	98-82-8	1.26		1.00	0.500	0.250	=
m-,p-Xylene	179601-23-1	5.57		1.00	1.00	0.500	=
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00	U

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250	U
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500	U
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250	U
n-Propylbenzene	103-65-1	1.34		1.00	0.250	0.125	=
Naphthalene	91-20-3	0.476	J	1.00	0.400	0.200	J
o-Xylene	95-47-6	1.88		1.00	0.500	0.250	=
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250	U
sec-Butylbenzene	135-98-8	0.283	J	1.00	0.500	0.250	J
Styrene	100-42-5	0.250	U	1.00	0.250	0.125	U
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250	
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250	
Toluene	108-88-3	0.500	U	1.00	0.500	0.250	
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250	
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500	
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250	
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50	UJ C05
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250	U

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	112	70	120	
4-Bromofluorobenzene	106	75	120	
Dibromofluoromethane	107	85	115	
Toluene-d8	106	85	120	

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

Sample #: L15101278-02
Client ID: MW04GW0113
Matrix: Water
Workgroup #: WG544006
Collect Date: 10/20/2015 17:40
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC
Dilution: 1
Units: ug/L

Instrument: HPMS17
Prep Date: N/A
Cal Date: 08/12/2015 18:29
Run Date: 10/22/2015 20:38
File ID: 17M015961

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250	U
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200	
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250	
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125	
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500	
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200	

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,2,4-Trimethylbenzene	95-63-6	94.3		1.00	0.500	0.250	=
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250	U
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200	U
1,3,5-Trimethylbenzene	108-67-8	59.7		1.00	0.500	0.250	=
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50	U
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50	U
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50	U
Acetone	67-64-1	27.8		5.00	5.00	2.50	U F02 F03
Benzene	71-43-2	0.250	U	1.00	0.250	0.125	U
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250	U
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500	U
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500	U
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500	UJ C05 P02
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250	U
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125	
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500	
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125	
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500	
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250	
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250	
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00	
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250	
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250	
Isopropylbenzene	98-82-8	6.55		1.00	0.500	0.250	=
m-,p-Xylene	179601-23-1	0.778	J	1.00	1.00	0.500	J
Methyl Cyclohexane	108-87-2	21.4		5.00	2.00	1.00	=
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250	U
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500	U
n-Butylbenzene	104-51-8	4.26		1.00	0.500	0.250	=
n-Propylbenzene	103-65-1	12.0		1.00	0.250	0.125	=
Naphthalene	91-20-3	1.61		1.00	0.400	0.200	=
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250	U
p-Isopropyltoluene	99-87-6	9.06		1.00	0.500	0.250	=
sec-Butylbenzene	135-98-8	7.72		1.00	0.500	0.250	=
Styrene	100-42-5	0.250	U	1.00	0.250	0.125	U
tert-Butylbenzene	98-06-6	1.28		1.00	0.500	0.250	=
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250	U
Toluene	108-88-3	0.500	U	1.00	0.500	0.250	U
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250	U

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500	U
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250	U
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50	UJ C05
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250	U

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	110	70	120	
4-Bromofluorobenzene	109	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	108	85	120	

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

Sample #: L15101278-03
Client ID: MW04GW0215
Matrix: Water
Workgroup #: WG544006
Collect Date: 10/20/2015 15:55
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC
Dilution: 1
Units: ug/L

Instrument: HPMS17
Prep Date: N/A
Cal Date: 08/12/2015 18:29
Run Date: 10/22/2015 20:58
File ID: 17M015962

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250	U
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200	
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250	
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125	
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500	
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200	
1,2,4-Trimethylbenzene	95-63-6	12.6		1.00	0.500	0.250	=
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250	U
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200	U
1,3,5-Trimethylbenzene	108-67-8	6.85		1.00	0.500	0.250	=
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50	U
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50	U
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50	U
Acetone	67-64-1	16.8		5.00	5.00	2.50	U F02 F03
Benzene	71-43-2	0.250	U	1.00	0.250	0.125	U
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250	U
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500	U
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500	U
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500	UJ C05 P02

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250	U
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125	
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500	
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125	
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500	
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250	
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250	
Cyclohexane	110-82-7	1.17	J	5.00	2.00	1.00	J
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250	U
Ethylbenzene	100-41-4	4.84		1.00	0.500	0.250	=
Isopropylbenzene	98-82-8	1.83		1.00	0.500	0.250	=
m-,p-Xylene	179601-23-1	23.4		1.00	1.00	0.500	=
Methyl Cyclohexane	108-87-2	3.40	J	5.00	2.00	1.00	J
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250	U
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500	U
n-Butylbenzene	104-51-8	0.350	J	1.00	0.500	0.250	J
n-Propylbenzene	103-65-1	2.03		1.00	0.250	0.125	=
Naphthalene	91-20-3	0.556	J	1.00	0.400	0.200	J
o-Xylene	95-47-6	11.3		1.00	0.500	0.250	=
p-Isopropyltoluene	99-87-6	0.576	J	1.00	0.500	0.250	J
sec-Butylbenzene	135-98-8	0.597	J	1.00	0.500	0.250	J
Styrene	100-42-5	0.250	U	1.00	0.250	0.125	U
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250	
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250	
Toluene	108-88-3	0.500	U	1.00	0.500	0.250	
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250	
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500	
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250	
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50	UJ C05
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250	U

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	110	70	120	
4-Bromofluorobenzene	109	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	106	85	120	

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 #:	L15101278-04	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	MW04GW0314	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	08/12/2015 18:29
Workgroup #:	WG544006	**Analyst:**	ADC	**Run Date:**	10/22/2015 21:18
Collect Date:	10/20/2015 16:50	**Dilution:**	1	**File ID:**	17M015963
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250	U
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200	
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250	
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125	
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500	
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200	
1,2,4-Trimethylbenzene	95-63-6	1.82		1.00	0.500	0.250	=
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250	U
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200	U
1,3,5-Trimethylbenzene	108-67-8	3.48		1.00	0.500	0.250	=
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50	U
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50	
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50	
Acetone	67-64-1	5.00	U	5.00	5.00	2.50	
Benzene	71-43-2	0.250	U	1.00	0.250	0.125	
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250	
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500	
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500	
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500	UJ C05 P02
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250	U
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125	
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500	
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125	
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500	
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250	
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250	
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00	
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250	
Ethylbenzene	100-41-4	0.693	J	1.00	0.500	0.250	J
Isopropylbenzene	98-82-8	0.674	J	1.00	0.500	0.250	J
m-,p-Xylene	179601-23-1	3.14		1.00	1.00	0.500	=
Methyl Cyclohexane	108-87-2	3.31	J	5.00	2.00	1.00	J

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250	U
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500	U
n-Butylbenzene	104-51-8	0.444	J	1.00	0.500	0.250	J
n-Propylbenzene	103-65-1	0.448	J	1.00	0.250	0.125	J
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200	U
o-Xylene	95-47-6	1.86		1.00	0.500	0.250	=
p-Isopropyltoluene	99-87-6	1.08		1.00	0.500	0.250	=
sec-Butylbenzene	135-98-8	1.80		1.00	0.500	0.250	=
Styrene	100-42-5	0.250	U	1.00	0.250	0.125	U
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250	
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250	
Toluene	108-88-3	0.500	U	1.00	0.500	0.250	
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250	
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500	
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250	
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50	UJ C05
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250	U

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	113	70	120	
4-Bromofluorobenzene	110	75	120	
Dibromofluoromethane	106	85	115	
Toluene-d8	107	85	120	

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

Sample #: L15101278-05
Client ID: MW04GW04R05
Matrix: Water
Workgroup #: WG544006
Collect Date: 10/20/2015 14:45
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC
Dilution: 1
Units: ug/L

Instrument: HPMS17
Prep Date: N/A
Cal Date: 08/12/2015 18:29
Run Date: 10/22/2015 21:38
File ID: 17M015964

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250	U
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200	
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250	
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125	
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500	
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200	

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,2,4-Trimethylbenzene	95-63-6	8.50		1.00	0.500	0.250	=
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250	U
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200	U
1,3,5-Trimethylbenzene	108-67-8	5.49		1.00	0.500	0.250	=
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50	U
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50	
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50	
Acetone	67-64-1	5.00	U	5.00	5.00	2.50	
Benzene	71-43-2	0.250	U	1.00	0.250	0.125	
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250	
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500	
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500	
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500	UJ C05 P02
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250	U
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125	
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500	
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125	
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500	
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250	
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250	
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00	
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250	
Ethylbenzene	100-41-4	3.22		1.00	0.500	0.250	=
Isopropylbenzene	98-82-8	1.28		1.00	0.500	0.250	=
m-,p-Xylene	179601-23-1	22.5		1.00	1.00	0.500	=
Methyl Cyclohexane	108-87-2	2.61	J	5.00	2.00	1.00	J
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250	U
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500	U
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250	U
n-Propylbenzene	103-65-1	1.33		1.00	0.250	0.125	=
Naphthalene	91-20-3	0.525	J	1.00	0.400	0.200	J
o-Xylene	95-47-6	14.9		1.00	0.500	0.250	=
p-Isopropyltoluene	99-87-6	0.339	J	1.00	0.500	0.250	J
sec-Butylbenzene	135-98-8	0.467	J	1.00	0.500	0.250	J
Styrene	100-42-5	0.250	U	1.00	0.250	0.125	U
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250	U
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250	U
Toluene	108-88-3	1.25		1.00	0.500	0.250	=
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250	U

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500	U
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250	U
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50	UJ C05
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250	U

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	112	70	120	
4-Bromofluorobenzene	109	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	107	85	120	

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

Sample #: L15101278-06
Client ID: MW04GW0512
Matrix: Water
Workgroup #: WG544006
Collect Date: 10/21/2015 13:35
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC
Dilution: 1
Units: ug/L

Instrument: HPMS17
Prep Date: N/A
Cal Date: 08/12/2015 18:29
Run Date: 10/22/2015 22:18
File ID: 17M015966

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250	U
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200	
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250	
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125	
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500	
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200	
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250	
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250	
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200	
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250	
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50	
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50	
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50	
Acetone	67-64-1	5.00	U	5.00	5.00	2.50	
Benzene	71-43-2	0.250	U	1.00	0.250	0.125	
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250	
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500	
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500	
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500	UJ C05 P02

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250	U
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125	
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500	
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125	
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500	
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250	
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250	
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00	
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250	
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250	
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250	
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500	
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00	
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250	
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500	
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250	
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125	
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200	
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250	
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250	
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250	
Styrene	100-42-5	0.250	U	1.00	0.250	0.125	
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250	
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250	
Toluene	108-88-3	0.500	U	1.00	0.500	0.250	
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250	
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500	
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250	
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50	UJ C05
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250	U

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	111	70	120	
4-Bromofluorobenzene	110	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	107	85	120	

U	Not detected at or above adjusted sample detection limit

Certificate of Analysis

Sample #:	L15101278-07	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	PZ408	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	08/12/2015 18:29
Workgroup #:	WG544006	**Analyst:**	ADC	**Run Date:**	10/22/2015 21:57
Collect Date:	10/20/2015 13:35	**Dilution:**	1	**File ID:**	17M015965
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250	U
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200	
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250	
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125	
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500	
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200	
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250	
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250	
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200	
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250	
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50	
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50	
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50	
Acetone	67-64-1	5.00	U	5.00	5.00	2.50	
Benzene	71-43-2	0.250	U	1.00	0.250	0.125	
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250	
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500	
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500	
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500	UJ C05 P02
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250	U
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125	
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500	
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125	
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500	
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250	
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250	
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00	
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250	
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250	
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250	
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500	
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00	

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250	U
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500	
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250	
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125	
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200	
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250	
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250	
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250	
Styrene	100-42-5	0.250	U	1.00	0.250	0.125	
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250	
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250	
Toluene	108-88-3	0.500	U	1.00	0.500	0.250	
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250	
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500	
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250	
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50	UJ C05
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250	U

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	112	70	120	
4-Bromofluorobenzene	110	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	107	85	120	

U	Not detected at or above adjusted sample detection limit

Sample #: L15101278-08
Client ID: SDW23AR04
Matrix: Water
Workgroup #: WG544056
Collect Date: 10/21/2015 12:35
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 09/30/2015 14:52
Run Date: 10/23/2015 20:03
File ID: 8M408246

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250	U
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200	
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250	
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125	
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500	
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200	
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250	

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250	U
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200	
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250	
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50	
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50	
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50	
Acetone	67-64-1	5.00	U	5.00	5.00	2.50	
Benzene	71-43-2	0.250	U	1.00	0.250	0.125	
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250	
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500	
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500	
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500	
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250	
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125	
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500	
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125	
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500	
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250	
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250	
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00	
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250	
Ethylbenzene	100-41-4	0.314	J	1.00	0.500	0.250	J
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250	U
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500	
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00	
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250	
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500	
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250	
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125	
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200	
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250	
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250	
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250	
Styrene	100-42-5	0.250	U	1.00	0.250	0.125	
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250	
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250	
Toluene	108-88-3	0.500	U	1.00	0.500	0.250	
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250	
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500	

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250	U
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50	UJ C05
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250	U

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	104	70	120	
4-Bromofluorobenzene	98.5	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	99.7	85	120	

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

Sample #: L15101278-09
Client ID: SW0621D
Matrix: Water
Workgroup #: WG544056
Collect Date: 10/20/2015 12:25
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 09/30/2015 14:52
Run Date: 10/23/2015 19:34
File ID: 8M408245

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250	U
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200	
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250	
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125	
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500	
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200	
1,2,4-Trimethylbenzene	95-63-6	9.24		1.00	0.500	0.250	=
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250	U
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200	U
1,3,5-Trimethylbenzene	108-67-8	8.46		1.00	0.500	0.250	=
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50	U
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50	
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50	
Acetone	67-64-1	5.00	U	5.00	5.00	2.50	
Benzene	71-43-2	0.250	U	1.00	0.250	0.125	
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250	
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500	
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500	
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500	
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250	

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125	U
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500	U
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125	
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500	
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250	
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250	
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00	
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250	
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250	
Isopropylbenzene	98-82-8	0.533	J	1.00	0.500	0.250	J
m-,p-Xylene	179601-23-1	3.89		1.00	1.00	0.500	=
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00	U
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250	U
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500	U
n-Butylbenzene	104-51-8	1.63		1.00	0.500	0.250	=
n-Propylbenzene	103-65-1	0.468	J	1.00	0.250	0.125	J
Naphthalene	91-20-3	1.03		1.00	0.400	0.200	=
o-Xylene	95-47-6	3.01		1.00	0.500	0.250	=
p-Isopropyltoluene	99-87-6	0.852	J	1.00	0.500	0.250	J
sec-Butylbenzene	135-98-8	0.667	J	1.00	0.500	0.250	J
Styrene	100-42-5	0.250	U	1.00	0.250	0.125	U
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250	
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250	
Toluene	108-88-3	0.500	U	1.00	0.500	0.250	
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250	
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500	
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250	
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50	UJ C05
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250	U

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	98.2	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	98.4	85	120	

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 #:	L15101278-10	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	SW0621	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	09/30/2015 14:52
Workgroup #:	WG544056	**Analyst:**	TMB	**Run Date:**	10/23/2015 18:34
Collect Date:	10/20/2015 12:25	**Dilution:**	1	**File ID:**	8M408243
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250	U
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200	U
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250	U
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125	U
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500	U
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200	U
1,2,4-Trimethylbenzene	95-63-6	9.88		1.00	0.500	0.250	=
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250	U
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200	U
1,3,5-Trimethylbenzene	108-67-8	8.94		1.00	0.500	0.250	=
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50	U
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50	
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50	
Acetone	67-64-1	5.00	U	5.00	5.00	2.50	
Benzene	71-43-2	0.250	U	1.00	0.250	0.125	
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250	
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500	
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500	
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500	
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250	
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125	
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500	
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125	
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500	
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250	
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250	
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00	
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250	
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250	
Isopropylbenzene	98-82-8	0.569	J	1.00	0.500	0.250	J
m-,p-Xylene	179601-23-1	4.09		1.00	1.00	0.500	=
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00	u

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250	U
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500	U
n-Butylbenzene	104-51-8	1.72		1.00	0.500	0.250	=
n-Propylbenzene	103-65-1	0.491	J	1.00	0.250	0.125	J
Naphthalene	91-20-3	1.12		1.00	0.400	0.200	=
o-Xylene	95-47-6	3.05		1.00	0.500	0.250	=
p-Isopropyltoluene	99-87-6	0.939	J	1.00	0.500	0.250	J
sec-Butylbenzene	135-98-8	0.709	J	1.00	0.500	0.250	J
Styrene	100-42-5	0.250	U	1.00	0.250	0.125	U
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250	
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250	
Toluene	108-88-3	0.500	U	1.00	0.500	0.250	
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250	
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500	
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250	
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50	UJ C05
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250	U

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	95.2	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	99.0	85	120	

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

Sample #: L15101278-11
Client ID: SW0621 MS
Matrix: Water
Workgroup #: WG544056
Collect Date: 10/20/2015 12:25
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 09/30/2015 14:52
Run Date: 10/23/2015 12:39
File ID: 8M408231

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	21.8		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	19.7		1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	20.3		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	21.5		1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	20.5		1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	22.3		1.00	0.400	0.200

Certificate of Analysis

Sample #:	L15101278-13	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	ER035	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	09/30/2015 14:52
Workgroup #:	WG544056	**Analyst:**	TMB	**Run Date:**	10/23/2015 17:35
Collect Date:	10/21/2015 15:00	**Dilution:**	1	**File ID:**	8M408241
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	4.53	J	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	19.2		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00

U J U U = U

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250	U
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500	
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250	
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125	
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200	
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250	
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250	
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250	
Styrene	100-42-5	0.250	U	1.00	0.250	0.125	
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250	
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250	
Toluene	108-88-3	0.500	U	1.00	0.500	0.250	
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250	
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500	
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250	
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50	UJ C05
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250	U

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	103	70	120	
4-Bromofluorobenzene	98.8	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	99.5	85	120	

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

Sample #: L15101278-14
Client ID: TB058
Matrix: Water
Workgroup #: WG544056
Collect Date: 10/20/2015 07:30
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 09/30/2015 14:52
Run Date: 10/23/2015 16:35
File ID: 8M408239

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250	U
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200	
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250	
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125	
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500	
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200	

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

U

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500	U
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250	U
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50	UJ C05
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250	U

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	103	70	120	
4-Bromofluorobenzene	98.2	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	98.8	85	120	

U	Not detected at or above adjusted sample detection limit

Sample #: L15101278-15
Client ID: FB019
Matrix: Water
Workgroup #: WG544056
Collect Date: 10/20/2015 11:00
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 09/30/2015 14:52
Run Date: 10/23/2015 17:05
File ID: 8M408240

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250	U
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200	
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250	
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125	
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500	
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200	
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250	
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250	
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200	
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250	
2-Butanone	78-93-3	4.64	J	5.00	5.00	2.50	J
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50	U
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50	U
Acetone	67-64-1	19.7		5.00	5.00	2.50	=
Benzene	71-43-2	0.250	U	1.00	0.250	0.125	U
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250	
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500	
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500	
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500	
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250	

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL	
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125	U
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500	
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125	
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500	
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250	
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250	
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00	
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250	
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250	
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250	
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500	
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00	
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250	
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500	
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250	
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125	
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200	
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250	
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250	
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250	
Styrene	100-42-5	0.250	U	1.00	0.250	0.125	
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250	
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250	
Toluene	108-88-3	0.500	U	1.00	0.500	0.250	
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250	
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500	
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250	
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50	UJ C05
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250	U

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	97.9	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	98.5	85	120	

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

Microbac

Laboratory Report Number: L15101278

Marie Simpson
Leidos
301 Laboratory Road
Oak Ridge, TN 37831

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 October 29 2015

David E. Vandenberg

David Vandenberg – Managing Director

State of Origin: NY
Accrediting Authority: Department of Health ID:10861
QAPP: DOD Ver 4.2 without flagging

Microbac

Lab Report #: L15101278
Lab Project #: 2870.008
Project Name: Gabreski
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?
00112413	H	0.0		1002239513160004575000808102651782	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 #: L15101278
Lab Project #: 2870.008
Project Name: Gabreski
Lab Contact: Stephanie Mossburg

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
SW0719	L15101278-01	10/21/2015 10:30	10/22/2015 10:10
MW04GW0113	L15101278-02	10/20/2015 17:40	10/22/2015 10:10
MW04GW0215	L15101278-03	10/20/2015 15:55	10/22/2015 10:10
MW04GW0314	L15101278-04	10/20/2015 16:50	10/22/2015 10:10
MW04GW04R05	L15101278-05	10/20/2015 14:45	10/22/2015 10:10
MW04GW0512	L15101278-06	10/21/2015 13:35	10/22/2015 10:10
PZ408	L15101278-07	10/20/2015 13:35	10/22/2015 10:10
SDW23AR04	L15101278-08	10/21/2015 12:35	10/22/2015 10:10
SW0621D	L15101278-09	10/20/2015 12:25	10/22/2015 10:10
SW0621	L15101278-10	10/20/2015 12:25	10/22/2015 10:10
SW0621 MS	L15101278-11	10/20/2015 12:25	10/22/2015 10:10
SW0621 MSD	L15101278-12	10/20/2015 12:25	10/22/2015 10:10
ER035	L15101278-13	10/21/2015 15:00	10/22/2015 10:10
TB058	L15101278-14	10/20/2015 07:30	10/22/2015 10:10
FB019	L15101278-15	10/20/2015 11:00	10/22/2015 10:10

Microbac REPORT L15101278
PREPARED FOR Leidos
WORK ID:

1.0 Summary Data 5
1.1 Narratives 6
1.2 Certificate of Analysis 9
2.0 Full Sample Data Package 35
2.1 Volatiles Data 36
2.1.1 Volatiles GCMS Data (8260) 37
2.1.1.1 Summary Data 38
2.1.1.2 QC Summary Data 71
2.1.1.3 Sample Data 128
2.1.1.4 Standards Data 272
2.1.1.5 Raw QC Data 422
3.0 Attachments 444

1.0 Summary Data

1.1 Narratives

Login Number: L15101278
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: The percent difference was out of range for the following analytes: Carbon Disulfide, Vinyl Acetate. 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: Carbon Disulfide. 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: Carbon Disulfide, Vinyl Acetate. Please see the applicable QC report for a detailed presentation of the failures.

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

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

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: 105653
Approved By: Franci Bolden



1.2 Certificate of Analysis

Certificate of Analysis

Sample #:	L15101278-01	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	SW0719	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	08/12/2015 18:29
Workgroup #:	WG544006	**Analyst:**	ADC	**Run Date:**	10/22/2015 20:18
Collect Date:	10/21/2015 10:30	**Dilution:**	1	**File ID:**	17M015960
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	10.7		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	6.66		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	17.4		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.758	J	1.00	0.500	0.250
Isopropylbenzene	98-82-8	1.26		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	5.57		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	1.34		1.00	0.250	0.125
Naphthalene	91-20-3	0.476	J	1.00	0.400	0.200
o-Xylene	95-47-6	1.88		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.283	J	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	112	70	120	
4-Bromofluorobenzene	106	75	120	
Dibromofluoromethane	107	85	115	
Toluene-d8	106	85	120	

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

Sample #: L15101278-02
Client ID: MW04GW0113
Matrix: Water
Workgroup #: WG544006
Collect Date: 10/20/2015 17:40
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC
Dilution: 1
Units: ug/L

Instrument: HPMS17
Prep Date: N/A
Cal Date: 08/12/2015 18:29
Run Date: 10/22/2015 20:38
File ID: 17M015961

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2,4-Trimethylbenzene	95-63-6	94.3		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	59.7		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	27.8		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	6.55		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	0.778	J	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	21.4		5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	4.26		1.00	0.500	0.250
n-Propylbenzene	103-65-1	12.0		1.00	0.250	0.125
Naphthalene	91-20-3	1.61		1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	9.06		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	7.72		1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	1.28		1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	110	70	120	
4-Bromofluorobenzene	109	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	108	85	120	

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

Sample #: L15101278-03
Client ID: MW04GW0215
Matrix: Water
Workgroup #: WG544006
Collect Date: 10/20/2015 15:55
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC
Dilution: 1
Units: ug/L

Instrument: HPMS17
Prep Date: N/A
Cal Date: 08/12/2015 18:29
Run Date: 10/22/2015 20:58
File ID: 17M015962

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	12.6		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	6.85		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	16.8		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	1.17	J	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	4.84		1.00	0.500	0.250
Isopropylbenzene	98-82-8	1.83		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	23.4		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	3.40	J	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.350	J	1.00	0.500	0.250
n-Propylbenzene	103-65-1	2.03		1.00	0.250	0.125
Naphthalene	91-20-3	0.556	J	1.00	0.400	0.200
o-Xylene	95-47-6	11.3		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.576	J	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.597	J	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	110	70	120	
4-Bromofluorobenzene	109	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	106	85	120	

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 #:	L15101278-04	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	MW04GW0314	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	08/12/2015 18:29
Workgroup #:	WG544006	**Analyst:**	ADC	**Run Date:**	10/22/2015 21:18
Collect Date:	10/20/2015 16:50	**Dilution:**	1	**File ID:**	17M015963
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	1.82		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	3.48		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.693	J	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.674	J	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	3.14		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	3.31	J	5.00	2.00	1.00

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.444	J	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.448	J	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	1.86		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	1.08		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	1.80		1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	113	70	120	
4-Bromofluorobenzene	110	75	120	
Dibromofluoromethane	106	85	115	
Toluene-d8	107	85	120	

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

Sample #: L15101278-05
Client ID: MW04GW04R05
Matrix: Water
Workgroup #: WG544006
Collect Date: 10/20/2015 14:45
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC
Dilution: 1
Units: ug/L

Instrument: HPMS17
Prep Date: N/A
Cal Date: 08/12/2015 18:29
Run Date: 10/22/2015 21:38
File ID: 17M015964

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2,4-Trimethylbenzene	95-63-6	8.50		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	5.49		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	3.22		1.00	0.500	0.250
Isopropylbenzene	98-82-8	1.28		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	22.5		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.61	J	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	1.33		1.00	0.250	0.125
Naphthalene	91-20-3	0.525	J	1.00	0.400	0.200
o-Xylene	95-47-6	14.9		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.339	J	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.467	J	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	1.25		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	112	70	120	
4-Bromofluorobenzene	109	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	107	85	120	

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

Sample #: L15101278-06
Client ID: MW04GW0512
Matrix: Water
Workgroup #: WG544006
Collect Date: 10/21/2015 13:35
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC
Dilution: 1
Units: ug/L

Instrument: HPMS17
Prep Date: N/A
Cal Date: 08/12/2015 18:29
Run Date: 10/22/2015 22:18
File ID: 17M015966

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	111	70	120	
4-Bromofluorobenzene	110	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	107	85	120	

U	Not detected at or above adjusted sample detection limit

Certificate of Analysis

Sample #:	L15101278-07	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	PZ408	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	08/12/2015 18:29
Workgroup #:	WG544006	**Analyst:**	ADC	**Run Date:**	10/22/2015 21:57
Collect Date:	10/20/2015 13:35	**Dilution:**	1	**File ID:**	17M015965
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	112	70	120	
4-Bromofluorobenzene	110	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	107	85	120	

U	Not detected at or above adjusted sample detection limit

Sample #: L15101278-08
Client ID: SDW23AR04
Matrix: Water
Workgroup #: WG544056
Collect Date: 10/21/2015 12:35
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 09/30/2015 14:52
Run Date: 10/23/2015 20:03
File ID: 8M408246

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.314	J	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	104	70	120	
4-Bromofluorobenzene	98.5	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	99.7	85	120	

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

Sample #: L15101278-09
Client ID: SW0621D
Matrix: Water
Workgroup #: WG544056
Collect Date: 10/20/2015 12:25
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 09/30/2015 14:52
Run Date: 10/23/2015 19:34
File ID: 8M408245

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	9.24		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	8.46		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.533	J	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	3.89		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	1.63		1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.468	J	1.00	0.250	0.125
Naphthalene	91-20-3	1.03		1.00	0.400	0.200
o-Xylene	95-47-6	3.01		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.852	J	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.667	J	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	98.2	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	98.4	85	120	

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 #:	L15101278-10	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	SW0621	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	09/30/2015 14:52
Workgroup #:	WG544056	**Analyst:**	TMB	**Run Date:**	10/23/2015 18:34
Collect Date:	10/20/2015 12:25	**Dilution:**	1	**File ID:**	8M408243
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	9.88		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	8.94		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.569	J	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	4.09		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	1.72		1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.491	J	1.00	0.250	0.125
Naphthalene	91-20-3	1.12		1.00	0.400	0.200
o-Xylene	95-47-6	3.05		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.939	J	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.709	J	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	95.2	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	99.0	85	120	

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

Sample #: L15101278-11
Client ID: SW0621 MS
Matrix: Water
Workgroup #: WG544056
Collect Date: 10/20/2015 12:25
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 09/30/2015 14:52
Run Date: 10/23/2015 12:39
File ID: 8M408231

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	21.8		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	19.7		1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	20.3		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	21.5		1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	20.5		1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	22.3		1.00	0.400	0.200

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2,4-Trimethylbenzene	95-63-6	28.9		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	22.2		1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	21.0		1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	27.4		1.00	0.500	0.250
2-Butanone	78-93-3	24.1		5.00	5.00	2.50
2-Hexanone	591-78-6	20.9		5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	21.4		5.00	5.00	2.50
Acetone	67-64-1	28.7		5.00	5.00	2.50
Benzene	71-43-2	21.5		1.00	0.250	0.125
Bromodichloromethane	75-27-4	21.4		1.00	0.500	0.250
Bromoform	75-25-2	22.3		1.00	1.00	0.500
Bromomethane	74-83-9	21.9		1.00	1.00	0.500
Carbon disulfide	75-15-0	18.6		1.00	1.00	0.500
Carbon tetrachloride	56-23-5	21.8		1.00	0.500	0.250
Chlorobenzene	108-90-7	20.9		1.00	0.250	0.125
Chloroethane	75-00-3	22.0		1.00	1.00	0.500
Chloroform	67-66-3	22.4		1.00	0.250	0.125
Chloromethane	74-87-3	19.3		1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	21.5		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	22.5		1.00	0.500	0.250
Cyclohexane	110-82-7	21.1		5.00	2.00	1.00
Chlorodibromomethane	124-48-1	20.5		1.00	0.500	0.250
Ethylbenzene	100-41-4	19.2		1.00	0.500	0.250
Isopropylbenzene	98-82-8	22.3		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	45.0		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	21.8		5.00	2.00	1.00
Methylene chloride	75-09-2	21.1		1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	24.8		1.00	1.00	0.500
n-Butylbenzene	104-51-8	23.2		1.00	0.500	0.250
n-Propylbenzene	103-65-1	20.2		1.00	0.250	0.125
Naphthalene	91-20-3	25.0		1.00	0.400	0.200
o-Xylene	95-47-6	23.1		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	21.0		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	20.9		1.00	0.500	0.250
Styrene	100-42-5	20.7		1.00	0.250	0.125
tert-Butylbenzene	98-06-6	19.8		1.00	0.500	0.250
Tetrachloroethene	127-18-4	20.7		1.00	0.500	0.250
Toluene	108-88-3	20.3		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	21.4		1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,3-Dichloropropene	10061-02-6	20.0		1.00	1.00	0.500
Trichloroethene	79-01-6	20.8		1.00	0.500	0.250
Vinyl acetate	108-05-4	25.0		5.00	5.00	2.50
Vinyl chloride	75-01-4	18.3		1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	95.6	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	99.4	85	120	

Sample #: L15101278-12
Client ID: SW0621 MSD
Matrix: Water
Workgroup #: WG544056
Collect Date: 10/20/2015 12:25
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 09/30/2015 14:52
Run Date: 10/23/2015 13:08
File ID: 8M408232

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	21.9		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	20.1		1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	20.0		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	21.4		1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	20.5		1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	22.3		1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	29.3		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	21.9		1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	21.2		1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	28.6		1.00	0.500	0.250
2-Butanone	78-93-3	21.8		5.00	5.00	2.50
2-Hexanone	591-78-6	20.0		5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	21.1		5.00	5.00	2.50
Acetone	67-64-1	28.4		5.00	5.00	2.50
Benzene	71-43-2	21.5		1.00	0.250	0.125
Bromodichloromethane	75-27-4	21.2		1.00	0.500	0.250
Bromoform	75-25-2	22.0		1.00	1.00	0.500
Bromomethane	74-83-9	22.6		1.00	1.00	0.500
Carbon disulfide	75-15-0	18.0		1.00	1.00	0.500
Carbon tetrachloride	56-23-5	21.3		1.00	0.500	0.250
Chlorobenzene	108-90-7	20.9		1.00	0.250	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Chloroethane	75-00-3	21.9		1.00	1.00	0.500
Chloroform	67-66-3	22.2		1.00	0.250	0.125
Chloromethane	74-87-3	18.4		1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	21.0		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	22.3		1.00	0.500	0.250
Cyclohexane	110-82-7	20.5		5.00	2.00	1.00
Chlorodibromomethane	124-48-1	20.5		1.00	0.500	0.250
Ethylbenzene	100-41-4	19.3		1.00	0.500	0.250
Isopropylbenzene	98-82-8	22.3		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	45.2		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	21.2		5.00	2.00	1.00
Methylene chloride	75-09-2	20.9		1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	23.9		1.00	1.00	0.500
n-Butylbenzene	104-51-8	23.5		1.00	0.500	0.250
n-Propylbenzene	103-65-1	20.3		1.00	0.250	0.125
Naphthalene	91-20-3	25.2		1.00	0.400	0.200
o-Xylene	95-47-6	23.1		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	21.2		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	21.1		1.00	0.500	0.250
Styrene	100-42-5	20.7		1.00	0.250	0.125
tert-Butylbenzene	98-06-6	20.1		1.00	0.500	0.250
Tetrachloroethene	127-18-4	20.5		1.00	0.500	0.250
Toluene	108-88-3	20.4		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	20.9		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	20.0		1.00	1.00	0.500
Trichloroethene	79-01-6	20.6		1.00	0.500	0.250
Vinyl acetate	108-05-4	24.7		5.00	5.00	2.50
Vinyl chloride	75-01-4	17.4		1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	102	70	120	
4-Bromofluorobenzene	97.6	75	120	
Dibromofluoromethane	103	85	115	
Toluene-d8	99.4	85	120	

Certificate of Analysis

Sample #:	L15101278-13	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	ER035	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	09/30/2015 14:52
Workgroup #:	WG544056	**Analyst:**	TMB	**Run Date:**	10/23/2015 17:35
Collect Date:	10/21/2015 15:00	**Dilution:**	1	**File ID:**	8M408241
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	4.53	J	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	19.2		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	103	70	120	
4-Bromofluorobenzene	98.8	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	99.5	85	120	

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

Sample #: L15101278-14
Client ID: TB058
Matrix: Water
Workgroup #: WG544056
Collect Date: 10/20/2015 07:30
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 09/30/2015 14:52
Run Date: 10/23/2015 16:35
File ID: 8M408239

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	103	70	120	
4-Bromofluorobenzene	98.2	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	98.8	85	120	

U	Not detected at or above adjusted sample detection limit

Sample #: L15101278-15
Client ID: FB019
Matrix: Water
Workgroup #: WG544056
Collect Date: 10/20/2015 11:00
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 09/30/2015 14:52
Run Date: 10/23/2015 17:05
File ID: 8M408240

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	4.64	J	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	19.7		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	97.9	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	98.5	85	120	

J	The analyte was positively identified, but the quantitation was below the RL
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: L15101278
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: The percent difference was out of range for the following analytes: Carbon Disulfide, Vinyl Acetate. 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: Carbon Disulfide. 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: Carbon Disulfide, Vinyl Acetate. Please see the applicable QC report for a detailed presentation of the failures.

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

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

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: 105653
Approved By: Franci Bolden



Certificate of Analysis

Sample #:	L15101278-01	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	SW0719	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	08/12/2015 18:29
Workgroup #:	WG544006	**Analyst:**	ADC	**Run Date:**	10/22/2015 20:18
Collect Date:	10/21/2015 10:30	**Dilution:**	1	**File ID:**	17M015960
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	10.7		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	6.66		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	17.4		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.758	J	1.00	0.500	0.250
Isopropylbenzene	98-82-8	1.26		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	5.57		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	1.34		1.00	0.250	0.125
Naphthalene	91-20-3	0.476	J	1.00	0.400	0.200
o-Xylene	95-47-6	1.88		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.283	J	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	112	70	120	
4-Bromofluorobenzene	106	75	120	
Dibromofluoromethane	107	85	115	
Toluene-d8	106	85	120	

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 #:	L15101278-02	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	MW04GW0113	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	08/12/2015 18:29
Workgroup #:	WG544006	**Analyst:**	ADC	**Run Date:**	10/22/2015 20:38
Collect Date:	10/20/2015 17:40	**Dilution:**	1	**File ID:**	17M015961
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	94.3		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	59.7		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	27.8		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	6.55		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	0.778	J	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	21.4		5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	4.26		1.00	0.500	0.250
n-Propylbenzene	103-65-1	12.0		1.00	0.250	0.125
Naphthalene	91-20-3	1.61		1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	9.06		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	7.72		1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	1.28		1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	110	70	120	
4-Bromofluorobenzene	109	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	108	85	120	

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 #:	L15101278-03	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	MW04GW0215	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	08/12/2015 18:29
Workgroup #:	WG544006	**Analyst:**	ADC	**Run Date:**	10/22/2015 20:58
Collect Date:	10/20/2015 15:55	**Dilution:**	1	**File ID:**	17M015962
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	12.6		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	6.85		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	16.8		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	1.17	J	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	4.84		1.00	0.500	0.250
Isopropylbenzene	98-82-8	1.83		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	23.4		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	3.40	J	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.350	J	1.00	0.500	0.250
n-Propylbenzene	103-65-1	2.03		1.00	0.250	0.125
Naphthalene	91-20-3	0.556	J	1.00	0.400	0.200
o-Xylene	95-47-6	11.3		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.576	J	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.597	J	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	110	70	120	
4-Bromofluorobenzene	109	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	106	85	120	

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 #:	L15101278-04	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	MW04GW0314	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	08/12/2015 18:29
Workgroup #:	WG544006	**Analyst:**	ADC	**Run Date:**	10/22/2015 21:18
Collect Date:	10/20/2015 16:50	**Dilution:**	1	**File ID:**	17M015963
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	1.82		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	3.48		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.693	J	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.674	J	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	3.14		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	3.31	J	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.444	J	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.448	J	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	1.86		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	1.08		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	1.80		1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	113	70	120	
4-Bromofluorobenzene	110	75	120	
Dibromofluoromethane	106	85	115	
Toluene-d8	107	85	120	

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 #:	L15101278-05	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	MW04GW04R05	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	08/12/2015 18:29
Workgroup #:	WG544006	**Analyst:**	ADC	**Run Date:**	10/22/2015 21:38
Collect Date:	10/20/2015 14:45	**Dilution:**	1	**File ID:**	17M015964
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	8.50		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	5.49		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	3.22		1.00	0.500	0.250
Isopropylbenzene	98-82-8	1.28		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	22.5		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.61	J	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	1.33		1.00	0.250	0.125
Naphthalene	91-20-3	0.525	J	1.00	0.400	0.200
o-Xylene	95-47-6	14.9		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.339	J	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.467	J	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	1.25		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	112	70	120	
4-Bromofluorobenzene	109	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	107	85	120	

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 #:	L15101278-06	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	MW04GW0512	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	08/12/2015 18:29
Workgroup #:	WG544006	**Analyst:**	ADC	**Run Date:**	10/22/2015 22:18
Collect Date:	10/21/2015 13:35	**Dilution:**	1	**File ID:**	17M015966
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	111	70	120	
4-Bromofluorobenzene	110	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	107	85	120	

U	Not detected at or above adjusted sample detection limit

Certificate of Analysis

Sample #:	L15101278-07	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	PZ408	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	08/12/2015 18:29
Workgroup #:	WG544006	**Analyst:**	ADC	**Run Date:**	10/22/2015 21:57
Collect Date:	10/20/2015 13:35	**Dilution:**	1	**File ID:**	17M015965
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	112	70	120	
4-Bromofluorobenzene	110	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	107	85	120	

U	Not detected at or above adjusted sample detection limit

Certificate of Analysis

Sample #:	L15101278-08	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	SDW23AR04	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	09/30/2015 14:52
Workgroup #:	WG544056	**Analyst:**	TMB	**Run Date:**	10/23/2015 20:03
Collect Date:	10/21/2015 12:35	**Dilution:**	1	**File ID:**	8M408246
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.314	J	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	104	70	120	
4-Bromofluorobenzene	98.5	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	99.7	85	120	

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 #:	L15101278-09	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	SW0621D	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	09/30/2015 14:52
Workgroup #:	WG544056	**Analyst:**	TMB	**Run Date:**	10/23/2015 19:34
Collect Date:	10/20/2015 12:25	**Dilution:**	1	**File ID:**	8M408245
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	9.24		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	8.46		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.533	J	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	3.89		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	1.63		1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.468	J	1.00	0.250	0.125
Naphthalene	91-20-3	1.03		1.00	0.400	0.200
o-Xylene	95-47-6	3.01		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.852	J	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.667	J	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	98.2	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	98.4	85	120	

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 #:	L15101278-10	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	SW0621	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	09/30/2015 14:52
Workgroup #:	WG544056	**Analyst:**	TMB	**Run Date:**	10/23/2015 18:34
Collect Date:	10/20/2015 12:25	**Dilution:**	1	**File ID:**	8M408243
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	9.88		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	8.94		1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.569	J	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	4.09		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	1.72		1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.491	J	1.00	0.250	0.125
Naphthalene	91-20-3	1.12		1.00	0.400	0.200
o-Xylene	95-47-6	3.05		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.939	J	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.709	J	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	95.2	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	99.0	85	120	

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 #:	L15101278-11	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	SW0621 MS	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	09/30/2015 14:52
Workgroup #:	WG544056	**Analyst:**	TMB	**Run Date:**	10/23/2015 12:39
Collect Date:	10/20/2015 12:25	**Dilution:**	1	**File ID:**	8M408231
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	21.8		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	19.7		1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	20.3		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	21.5		1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	20.5		1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	22.3		1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	28.9		1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	22.2		1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	21.0		1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	27.4		1.00	0.500	0.250
2-Butanone	78-93-3	24.1		5.00	5.00	2.50
2-Hexanone	591-78-6	20.9		5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	21.4		5.00	5.00	2.50
Acetone	67-64-1	28.7		5.00	5.00	2.50
Benzene	71-43-2	21.5		1.00	0.250	0.125
Bromodichloromethane	75-27-4	21.4		1.00	0.500	0.250
Bromoform	75-25-2	22.3		1.00	1.00	0.500
Bromomethane	74-83-9	21.9		1.00	1.00	0.500
Carbon disulfide	75-15-0	18.6		1.00	1.00	0.500
Carbon tetrachloride	56-23-5	21.8		1.00	0.500	0.250
Chlorobenzene	108-90-7	20.9		1.00	0.250	0.125
Chloroethane	75-00-3	22.0		1.00	1.00	0.500
Chloroform	67-66-3	22.4		1.00	0.250	0.125
Chloromethane	74-87-3	19.3		1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	21.5		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	22.5		1.00	0.500	0.250
Cyclohexane	110-82-7	21.1		5.00	2.00	1.00
Chlorodibromomethane	124-48-1	20.5		1.00	0.500	0.250
Ethylbenzene	100-41-4	19.2		1.00	0.500	0.250
Isopropylbenzene	98-82-8	22.3		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	45.0		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	21.8		5.00	2.00	1.00
Methylene chloride	75-09-2	21.1		1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	24.8		1.00	1.00	0.500
n-Butylbenzene	104-51-8	23.2		1.00	0.500	0.250
n-Propylbenzene	103-65-1	20.2		1.00	0.250	0.125
Naphthalene	91-20-3	25.0		1.00	0.400	0.200
o-Xylene	95-47-6	23.1		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	21.0		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	20.9		1.00	0.500	0.250
Styrene	100-42-5	20.7		1.00	0.250	0.125
tert-Butylbenzene	98-06-6	19.8		1.00	0.500	0.250
Tetrachloroethene	127-18-4	20.7		1.00	0.500	0.250
Toluene	108-88-3	20.3		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	21.4		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	20.0		1.00	1.00	0.500
Trichloroethene	79-01-6	20.8		1.00	0.500	0.250
Vinyl acetate	108-05-4	25.0		5.00	5.00	2.50
Vinyl chloride	75-01-4	18.3		1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	95.6	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	99.4	85	120	

Certificate of Analysis

Sample #: L15101278-12
Client ID: SW0621 MSD
Matrix: Water
Workgroup #: WG544056
Collect Date: 10/20/2015 12:25
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 09/30/2015 14:52
Run Date: 10/23/2015 13:08
File ID: 8M408232

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	21.9		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	20.1		1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	20.0		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	21.4		1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	20.5		1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	22.3		1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	29.3		1.00	0.500	0.250

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloroethane	107-06-2	21.9		1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	21.2		1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	28.6		1.00	0.500	0.250
2-Butanone	78-93-3	21.8		5.00	5.00	2.50
2-Hexanone	591-78-6	20.0		5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	21.1		5.00	5.00	2.50
Acetone	67-64-1	28.4		5.00	5.00	2.50
Benzene	71-43-2	21.5		1.00	0.250	0.125
Bromodichloromethane	75-27-4	21.2		1.00	0.500	0.250
Bromoform	75-25-2	22.0		1.00	1.00	0.500
Bromomethane	74-83-9	22.6		1.00	1.00	0.500
Carbon disulfide	75-15-0	18.0		1.00	1.00	0.500
Carbon tetrachloride	56-23-5	21.3		1.00	0.500	0.250
Chlorobenzene	108-90-7	20.9		1.00	0.250	0.125
Chloroethane	75-00-3	21.9		1.00	1.00	0.500
Chloroform	67-66-3	22.2		1.00	0.250	0.125
Chloromethane	74-87-3	18.4		1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	21.0		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	22.3		1.00	0.500	0.250
Cyclohexane	110-82-7	20.5		5.00	2.00	1.00
Chlorodibromomethane	124-48-1	20.5		1.00	0.500	0.250
Ethylbenzene	100-41-4	19.3		1.00	0.500	0.250
Isopropylbenzene	98-82-8	22.3		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	45.2		1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	21.2		5.00	2.00	1.00
Methylene chloride	75-09-2	20.9		1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	23.9		1.00	1.00	0.500
n-Butylbenzene	104-51-8	23.5		1.00	0.500	0.250
n-Propylbenzene	103-65-1	20.3		1.00	0.250	0.125
Naphthalene	91-20-3	25.2		1.00	0.400	0.200
o-Xylene	95-47-6	23.1		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	21.2		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	21.1		1.00	0.500	0.250
Styrene	100-42-5	20.7		1.00	0.250	0.125
tert-Butylbenzene	98-06-6	20.1		1.00	0.500	0.250
Tetrachloroethene	127-18-4	20.5		1.00	0.500	0.250
Toluene	108-88-3	20.4		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	20.9		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	20.0		1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Trichloroethene	79-01-6	20.6		1.00	0.500	0.250
Vinyl acetate	108-05-4	24.7		5.00	5.00	2.50
Vinyl chloride	75-01-4	17.4		1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	102	70	120	
4-Bromofluorobenzene	97.6	75	120	
Dibromofluoromethane	103	85	115	
Toluene-d8	99.4	85	120	

Certificate of Analysis

Sample #: L15101278-13
Client ID: ER035
Matrix: Water
Workgroup #: WG544056
Collect Date: 10/21/2015 15:00
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/L

Instrument: HPMS8
Prep Date: N/A
Cal Date: 09/30/2015 14:52
Run Date: 10/23/2015 17:35
File ID: 8M408241

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	4.53	J	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	19.2		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	103	70	120	
4-Bromofluorobenzene	98.8	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	99.5	85	120	

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 #:	L15101278-14	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	TB058	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	09/30/2015 14:52
Workgroup #:	WG544056	**Analyst:**	TMB	**Run Date:**	10/23/2015 16:35
Collect Date:	10/20/2015 07:30	**Dilution:**	1	**File ID:**	8M408239
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	5.00	U	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	5.00	U	5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	103	70	120	
4-Bromofluorobenzene	98.2	75	120	
Dibromofluoromethane	104	85	115	
Toluene-d8	98.8	85	120	

U	Not detected at or above adjusted sample detection limit

Certificate of Analysis

Sample #:	L15101278-15	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	FB019	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	09/30/2015 14:52
Workgroup #:	WG544056	**Analyst:**	TMB	**Run Date:**	10/23/2015 17:05
Collect Date:	10/20/2015 11:00	**Dilution:**	1	**File ID:**	8M408240
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,1-Dichloroethene	75-35-4	1.00	U	1.00	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
2-Butanone	78-93-3	4.64	J	5.00	5.00	2.50
2-Hexanone	591-78-6	5.00	U	5.00	5.00	2.50
4-Methyl-2-pentanone	108-10-1	5.00	U	5.00	5.00	2.50
Acetone	67-64-1	19.7		5.00	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	1.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	1.00	1.00	0.500
Carbon disulfide	75-15-0	1.00	U	1.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chloroethane	75-00-3	1.00	U	1.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	1.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
Cyclohexane	110-82-7	2.00	U	5.00	2.00	1.00
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	1.00	1.00	0.500

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Methyl Cyclohexane	108-87-2	2.00	U	5.00	2.00	1.00
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Methyl t-butyl ether (MTBE)	1634-04-4	1.00	U	1.00	1.00	0.500
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	1.00	1.00	0.500
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Vinyl acetate	108-05-4	5.00	U	5.00	5.00	2.50
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	105	70	120	
4-Bromofluorobenzene	97.9	75	120	
Dibromofluoromethane	105	85	115	
Toluene-d8	98.5	85	120	

J	The analyte was positively identified, but the quantitation was below the RL
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: HPMS17 Dataset: 081215
Analyst1: ADC Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 22
Method: 624 SOP: MSV10 Rev: 13
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID:

Internal Standard: STD71947 Surrogate Standard: STD71948
CCV: STD71944 LCS: STD72082 MS/MSD: NA

Column 1 ID: RTX-VMS Column 2 ID: NA
Workgroups: WG534785 (ICAL)

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
17M014367	WG534785-01 50ng BFB STD	NA	1	1	STD71644	08/12/15 14:50
17M014368	WG534785-02 50ug/L CCV-STD	NA	1	1	STD71944	08/12/15 15:10
17M014369	RINSE	NA	1	1	STD71944	08/12/15 15:30
17M014370	WG534785-03 0.3ug/L STD	NA	1	1	STD71944	08/12/15 15:50
17M014371	WG534785-04 0.4ug/L STD	NA	1	1	STD71944	08/12/15 16:10
17M014372	WG534785-05 1.0ug/L STD	NA	1	1	STD71944	08/12/15 16:30
17M014373	WG534785-06 2.0ug/L STD	NA	1	1	STD71944	08/12/15 16:50
17M014374	WG534785-07 5.0ug/L STD	NA	1	1	STD71944	08/12/15 17:10
17M014375	WG534785-08 20.0ug/L STD	NA	1	1	STD71944	08/12/15 17:30
17M014376	WG534785-09 100.0ug/L STD	NA	1	1	STD71944	08/12/15 17:50
17M014377	WG534785-10 200.0ug/L STD	NA	1	1	STD71944	08/12/15 18:09
17M014378	WG534785-11 300.0ug/L STD	NA	1	1	STD71944	08/12/15 18:29
17M014379	RINSE	NA	1	1		08/12/15 18:49
17M014380	WG534785-12 50ug/L ALTSRC	NA	1	1	STD71945	08/12/15 19:09

Comments

Seq.	Rerun	Dil.	Reason	Analytes
14				
File ID: 17M014380				
WG534785-12 Failing standard, RR. DNR.				

Approved: August 28, 2015

Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS17 Dataset: 082115
Analyst1: ADC Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 22
Method: 5235, 5030B, 5030C SOP: PAT01 Rev: 18

Maintenance Log ID:

Internal Standard: STD71947 Surrogate Standard: STD71948
CCV: STD71944 LCS: STD72082 MS/MSD: STD72082

Column 1 ID: RTX-VMS Column 2 ID: NA
Workgroups: WG536005, WG534785 (ALT SRC)

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
17M014381	WG536002-01 50ng BFB STD	NA	1	1	STD71644	08/21/15 11:40
17M014382	WG536002-01 50ng BFB STD	NA	1	1	STD71644	08/21/15 11:57
17M014383	WG536002-01 50ng BFB STD	NA	1	1	STD71644	08/21/15 12:28
17M014384	WG536002-02 50ug/L CCV-STD	NA	1	1	STD71944	08/21/15 12:47
17M014385	WG534785-12 50ug/L ALTSRC	NA	1	1	STD71945	08/21/15 13:07
17M014386	RINSE	NA	1	1		08/21/15 13:27
17M014387	WG536005-01 VBLK 0821 8260	NA	1	1		08/21/15 13:47
17M014388	L15081147-12 A BLK	NA	1	1		08/21/15 14:07
17M014389	L15081147-13 A BLK	NA	1	1		08/21/15 14:27
17M014390	L15081147-01 A MDL	NA	1	1	STD71946	08/21/15 14:46
17M014391	L15081147-02 A MDL	NA	1	1	STD71946	08/21/15 15:06
17M014392	L15081147-03 A MDL	NA	1	1	STD71946	08/21/15 15:26
17M014393	L15081147-04 A MDL	NA	1	1	STD71946	08/21/15 15:46
17M014394	L15081147-05 A MDL	NA	1	1	STD71946	08/21/15 16:06
17M014395	L15081147-06 A MDL	NA	1	1	STD71946	08/21/15 16:26
17M014396	L15081147-07 A MDL	NA	1	1	STD71946	08/21/15 16:46
17M014397	L15081147-14 A LOD	NA	1	1	STD71946	08/21/15 17:06
17M014398	L15081147-08 A LOQ	NA	1	1	STD71946	08/21/15 17:26
17M014399	L15081147-11 A LOQ	NA	1	1	STD71946	08/21/15 17:46
17M014400	L15081147-09 A LOQ	NA	1	1	STD71946	08/21/15 18:06
17M014401	L15081147-10 A LOQ	NA	1	1	STD71946	08/21/15 18:25
17M014402	L15081147-23 A DOC	NA	1	1	STD71946	08/21/15 18:45
17M014403	L15081147-24 A DOC	NA	1	1	STD71946	08/21/15 19:05
17M014404	L15081147-25 A DOC	NA	1	1	STD71946	08/21/15 19:25
17M014405	L15081147-26 A DOC	NA	1	1	STD71946	08/21/15 19:45
17M014406	RINSE	NA	1	1	STD71946	08/24/15 09:04
17M014407	RINSE	NA	1	1	STD71946	08/24/15 09:24

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1				
File ID: 17M014381				
WG536002-01 Failed acceptance criteria. RR.				

Approved: August 30, 2015

Page: 1

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Instrument Run Log

Instrument: HPMS17 Dataset: 082115
Analyst1: ADC Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 22
Method: 5235, 5030B, 5030C SOP: PAT01 Rev: 18

Maintenance Log ID:

Internal Standard: STD71947 Surrogate Standard: STD71948
CCV: STD71944 LCS: STD72082 MS/MSD: STD72082

Column 1 ID: RTX-VMS Column 2 ID: NA
Workgroups: WG536005, WG534785 (ALT SRC)

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
File ID: 17M014382				
WG536002-01 Failed acceptance criteria. Re-tune and RR.				

Approved: August 30, 2015

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Instrument Run Log

Instrument: HPMS8 Dataset: 093015
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 22
Method: 624 SOP: MSV10 Rev: 13
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID: 53451

Internal Standard: STD72206 Surrogate Standard: STD72206
CCV: STD72739 LCS: STD72747 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG540912

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M407744	WG540912-01 50ng BFB STD 8260	NA	1	1	STD72715	09/30/15 09:14
8M407745	WG540912-01 50ng BFB STD 8260	NA	1	1	STD72715	09/30/15 09:38
8M407746	RINSE	NA	1	1		09/30/15 10:01
8M407747	WG540912-02 0.3ug/L STD 8260	NA	1	1	STD72739	09/30/15 10:30
8M407748	WG540912-03 0.4ug/L STD 8260	NA	1	1	STD72739	09/30/15 10:59
8M407749	WG540912-04 1ug/L STD 8260	NA	1	1	STD72739	09/30/15 11:32
8M407750	WG540912-05 2ug/L STD 8260	NA	1	1	STD72739	09/30/15 12:01
8M407751	WG540912-06 5ug/L STD 8260	NA	1	1	STD72739	09/30/15 12:29
8M407752	WG540912-07 20ug/L STD 8260	NA	1	1	STD72739	09/30/15 12:58
8M407753	WG540912-08 50ug/L STD 8260	NA	1	1	STD72739	09/30/15 13:27
8M407754	WG540912-09 100ug/L STD 8260	NA	1	1	STD72739	09/30/15 13:56
8M407755	WG540912-10 200ug/L STD 8260	NA	1	1	STD72739	09/30/15 14:24
8M407756	WG540912-11 300ug/L STD 8260	NA	1	1	STD72739	09/30/15 14:52
8M407757	RINSE	NA	1	1		09/30/15 15:25
8M407758	RINSE	NA	1	1		09/30/15 15:54
8M407759	WG540912-12 50ug/L ALT SRC STD 8260	NA	1	1	STD727747	09/30/15 16:22
8M407760	RINSE	NA	1	1		09/30/15 16:52
8M407761	WG540912-12 50ug/L ALT SRC STD 8260	NA	1	1	STD72747	09/30/15 17:27
8M407762	CCV	NA	1	1	STD72739	09/30/15 17:56
8M407763	RINSE	NA	1	1		09/30/15 18:24

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1	X			
File ID: 8M407744				
			Tune failed, DNR.	
16	X			
File ID: 8M407759				
			Carbon disulfide was low, DNR. Made a new lcs adds mix.	

Approved: October 01, 2015

Page: 1

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Instrument Run Log

Instrument: HPMS8 Dataset: 100515
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 22
Method: 624 SOP: MSV10 Rev: 13
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID: 53462

Internal Standard: STD72767 Surrogate Standard: STD72767
CCV: STD72810 LCS: STD72811 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG540826

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M407827	WG540826-01 50ng BFB STD 8260	NA	1	1	STD72715	10/05/15 11:26
8M407828	WG540826-02 5ug/L STD A9FOO	NA	1	1	STD72810	10/05/15 11:49
8M407829	WG540826-03 20ug/L STD A9FOO	NA	1	1	STD72810	10/05/15 12:17
8M407830	WG540826-04 50ug/L STD A9FOO	NA	1	1	STD72810	10/05/15 12:51
8M407831	WG540826-05 100ug/L STD A9FOO	NA	1	1	STD72810	10/05/15 13:20
8M407832	WG540826-06 200ug/L STD A9FOO	NA	1	1	STD72810	10/05/15 13:49
8M407833	WG540826-07 300ug/L STD A9FOO	NA	1	1	STD72810	10/05/15 14:17
8M407834	WG540826-08 400ug/L STD A9FOO	NA	1	1	STD72810	10/05/15 14:47
8M407835	WG540826-09 500ug/L STD A9FOO	NA	1	1	STD72810	10/05/15 15:15
8M407836	RINSE	NA	1	1		10/05/15 15:50
8M407837	RINSE	NA	1	1		10/05/15 16:19
8M407838	WG540826-10 100ug/L ALT SRC STD A9/F	NA	1	1	STD72811	10/05/15 16:48

Approved: October 09, 2015



Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS17 Dataset: 102215
Analyst1: ADC Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 23
Method: 5035/5030B/ 5030C SOP: PAT01 Rev: 18

Maintenance Log ID:

Internal Standard: STD72995 Surrogate Standard: STD72996
CCV: STD72875 LCS: STD73034 MS/MSD: STD73034

Column 1 ID: RTX-VMS Column 2 ID: NA
Workgroups: WG543915, WG544006

Comments: No 624s are reported due to a software error on the 624 blank.

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
17M015933	WG543912-01 50ng BFB STD	NA	1	1	STD72715	10/22/15 11:24
17M015934	WG543912-02 50ug/L CCV STD	NA	1	1	STD72875	10/22/15 11:41
17M015935	RINSE	NA	1	1		10/22/15 12:03
17M015936	WG543915-01 BLK 8260	NA	1	1		10/22/15 12:23
17M015937	WG543915-02 20ug/L LCS 8260	NA	1	1	STD73034	10/22/15 12:42
17M015938	L15101091-07 A MS 826-SPE	<2	1	1	STD73034	10/22/15 13:02
17M015939	L15101091-08 A MSD 826-SPE	<2	1	1		10/22/15 13:22
17M015940	L15101244-03 A 826-BETX	<2	2	1		10/22/15 13:42
17M015941	L15101091-09 A 826-SPE	<2	1	1		10/22/15 14:02
17M015942	L15101219-02 A 826-SPE	5	1	1		10/22/15 14:21
17M015943	L15101243-09 A 826-SPE1	<2	1	1		10/22/15 14:41
17M015944	L15101243-10 A 826-SPE1	<2	1	1		10/22/15 15:01
17M015945	L15101091-06 A 826-SPE	<2	1	1		10/22/15 15:21
17M015946	L15101219-01 A 826-SPE	7	1	1		10/22/15 15:41
17M015947	L15101221-01 A 826-SPE	6	1	1		10/22/15 16:01
17M015948	L15101244-01 A 826-BETX	<2	2	1		10/22/15 16:20
17M015949	L15101245-01 A 826-BETX	<2	2	1		10/22/15 16:40
17M015950	L15101243-01 A 826-SPE1	<2	1	1		10/22/15 17:00
17M015951	L15101243-03 A 826-SPE1	<2	1	1		10/22/15 17:20
17M015952	L15101243-05 A 826-SPE1	<2	1	1		10/22/15 17:40
17M015953	L15101243-07 A 826-SPE1	<2	1	1		10/22/15 18:00
17M015954	L15101243-11 A 826-SPE1	<2	1	1		10/22/15 18:20
17M015955	RINSE	NA	1	1		10/22/15 18:39
17M015956	WG544006-01 BLK 8260	NA	1	1		10/22/15 18:59
17M015957	WG544006-02 20ug/L LCS 8260	NA	1	1	STD73034	10/22/15 19:19
17M015958	WG544006-03 20ug/L LCSDUP 8260	NA	1	1	STD73034	10/22/15 19:39
17M015959	RINSE	NA	1	1		10/22/15 19:59
17M015960	L15101278-01 A 826-SPE	<2	1	1		10/22/15 20:18
17M015961	L15101278-02 A 826-SPE	<2	1	1		10/22/15 20:38
17M015962	L15101278-03 A 826-SPE	<2	1	1		10/22/15 20:58
17M015963	L15101278-04 A 826-SPE	<2	1	1		10/22/15 21:18
17M015964	L15101278-05 A 826-SPE	<2	1	1		10/22/15 21:38
17M015965	L15101278-07 A 826-SPE	<2	1	1		10/22/15 21:57
17M015966	L15101278-06 A 826-SPE	<2	1	1		10/22/15 22:18

Approved: October 26, 2015

Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS17 Dataset: 102215
Analyst1: ADC Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 23
Method: 5035/5030B/ 5030C SOP: PAT01 Rev: 18

Maintenance Log ID:

Internal Standard: STD72995 Surrogate Standard: STD72996
CCV: STD72875 LCS: STD73034 MS/MSD: STD73034

Column 1 ID: RTX-VMS Column 2 ID: NA
Workgroups: WG543915, WG544006

Comments: No 624s are reported due to a software error on the 624 blank.

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
17M015967	RINSE	NA	1	1		10/22/15 22:37
17M015968	WG544006-04 624-BLK	NA	2	1		10/22/15 22:58
17M015969	L15101285-01 A 624-SPE	7	2	1		10/22/15 23:17
17M015970	L15101331-02 A 624-SPE	5	2	1		10/22/15 23:37
17M015971	L15101331-04 A 624-SPE	7	2	1		10/22/15 23:57
17M015972	RINSE	NA	2	1		10/23/15 00:17
17M015973	RINSE	NA	2	1		10/23/15 00:37
17M015974	RINSE	NA	2	1		10/23/15 00:57

Approved: October 26, 2015

Page: 2

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 102315
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 22
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18

Maintenance Log ID: 53499

Internal Standard: STD72767 Surrogate Standard: STD72767
CCV: STD73133 LCS: STD73015 MS/MSD: STD73015

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG544056

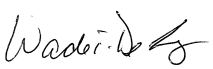
Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M408225	WG544055-01 50ng BFB STD 8260	NA	1	1	STD72715	10/23/15 10:01
8M408226	WG544055-01 50ng BFB STD 8260	NA	1	1	STD72715	10/23/15 10:16
8M408227	WG544055-02 50ug/L CCV STD 8260	NA	1	1	STD73133	10/23/15 10:40
8M408228	WG000000-01 100ug/L A9CCV STD 8260	NA	1	1	STD72810	10/23/15 11:10
8M408229	WG544056-01 VBLK1023 BLANK STD 826	NA	1	1		10/23/15 11:39
8M408230	WG544056-02 20ug/L LCS STD 8260	NA	1	1	STD73015	10/23/15 12:09
8M408231	L15101278-11 A MS 826-SPE	<2	1	1	STD73015	10/23/15 12:39
8M408232	L15101278-12 A MSD 826-SPE	<2	1	1	STD73015	10/23/15 13:08
8M408233	L15101235-02 B 100X 826-SPE D1	5	1	100		10/23/15 13:37
8M408234	L15101235-03 B 50X 826-SPE D1	3	1	50		10/23/15 14:07
8M408235	L15101235-04 B 10X 826-SPE D1	<2	1	10		10/23/15 14:37
8M408236	L15101181-09 B 500X 826-SPE D1	<2	1	500		10/23/15 15:06
8M408237	L15101181-12 B 500X 826-SPE D1	<2	1	500		10/23/15 15:36
8M408238	L15101317-01 A 826-SPE	<2	1	1		10/23/15 16:05
8M408239	L15101278-14 A TB 826-SPE	<2	1	1		10/23/15 16:35
8M408240	L15101278-15 A FB 826-SPE	<2	1	1		10/23/15 17:05
8M408241	L15101278-13 A ER 826-SPE	<2	1	1		10/23/15 17:35
8M408242	L15101235-05 B 826-SPE	<2	1	1		10/23/15 18:04
8M408243	L15101278-10 A REF 826-SPE	<2	1	1		10/23/15 18:34
8M408244	L15101181-11 A 826-SPE	<2	1	1		10/23/15 19:04
8M408245	L15101278-09 A 826-SPE	<2	1	1		10/23/15 19:34
8M408246	L15101278-08 A 826-SPE	<2	1	1		10/23/15 20:03
8M408247	L15101302-03 B 100X 826-SPE 00	<2	1	100		10/23/15 20:32
8M408248	L15101302-04 B 5X 826-SPE 00	<2	1	5		10/23/15 21:02
8M408249	L15101302-09 B 826-SPE	<2	1	1		10/23/15 21:31
8M408250	L15101302-10 B 826-SPE	<2	1	1		10/23/15 22:01
8M408251	CCV	NA	1	1		10/23/15 22:30
8M408252	RINSE	NA	1	1		10/23/15 23:00
8M408253	RINSE	NA	1	1		10/23/15 23:29
8M408254	RINSE	NA	1	1		10/23/15 23:58
8M408255	RINSE	NA	1	1		10/24/15 00:27

Comments

Approved: October 27, 2015

Page: 1



Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 102315
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 22
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18

Maintenance Log ID: 53499

Internal Standard: STD72767 Surrogate Standard: STD72767
CCV: STD73133 LCS: STD73015 MS/MSD: STD73015

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

Workgroups: WG544056

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1	X			
File ID: 8M408225				
	Tune failed, DNR.			
4				
File ID: 8M408228				
	Not needed. DNR.			
26	X	5	Over Calibration Range	CIS12-DCE
File ID: 8M408250				

Approved: October 27, 2015

Page: 2

Microbac Laboratories Inc.

Data Checklist

Date: 12-AUG-2015
Analyst: ADC
Analyst: NA
Method: 8260
Instrument: HPMS17
Curve Workgroup: WG534785
Runlog ID: 70077
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	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	ADC
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	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:
27-AUG-2015

Secondary Reviewer:
28-AUG-2015

CHECKLIST1 - Modified 03/05/2008
Generated: AUG-28-2015 14:33:47

Microbac Laboratories Inc.

Data Checklist

Date: 21-AUG-2015
Analyst: ADC
Analyst: NA
Method: 8260
Instrument: HPMS17
Curve Workgroup: WG534785
Runlog ID: 70086
Analytical Workgroups: WG536005

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	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	ADC
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	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:
27-AUG-2015

Secondary Reviewer:
30-AUG-2015

CHECKLIST1 - Modified 03/05/2008
Generated: AUG-30-2015 21:27:41

Microbac Laboratories Inc.

Data Checklist

Date: 30-SEP-2015
Analyst: TMB
Analyst: NA
Method: 8260B/624/OVAP
Instrument: HPMS8
Curve Workgroup: NA
Runlog ID: 70802
Analytical Workgroups: WG540912

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	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
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:
01-OCT-2015
Tiffany Bailey

Secondary Reviewer:
01-OCT-2015

CHECKLIST1 - Modified 03/05/2008
Generated: OCT-01-2015 16:52:52

Microbac Laboratories Inc.

Data Checklist

Date: 05-OCT-2015
Analyst: TMB
Analyst: NA
Method: 8260B/624/OVAP
Instrument: HPMS8
Curve Workgroup: NA
Runlog ID: 70874
Analytical Workgroups: WG540826

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	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
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	TMB
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:
06-OCT-2015

Tiffany Bailey

Secondary Reviewer:
09-OCT-2015

CHECKLIST1 - Modified 03/05/2008
Generated: OCT-09-2015 12:12:03

Microbac Laboratories Inc.

Data Checklist

Date: 22-OCT-2015
Analyst: ADC
Analyst: NA
Method: 8260
Instrument: HPMS17
Curve Workgroup: NA
Runlog ID: 71262
Analytical Workgroups: WG543915, WG544006

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	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	ADC
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	X
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	ADC
Secondary Reviewer	WTD
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:
25-OCT-2015

Secondary Reviewer:
26-OCT-2015

CHECKLIST1 - Modified 03/05/2008
Generated: OCT-26-2015 15:39:22

Microbac Laboratories Inc.

Data Checklist

Date: 23-OCT-2015
Analyst: TMB
Analyst: NA
Method: 8260B
Instrument: HPMS8
Curve Workgroup: NA
Runlog ID: 71253
Analytical Workgroups: WG544056

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	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
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	TMB
Secondary Reviewer	WTD
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-OCT-2015

Secondary Reviewer:
27-OCT-2015

CHECKLIST1 - Modified 03/05/2008
Generated: OCT-27-2015 15:09:53

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG544006

Login Number: L15101278

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
SW0719	01	10/21/15					10/22/2015	1.4	14		10/22/15	1.4	14	
MW04GW0113	02	10/20/15					10/22/2015	2.1	14		10/22/15	2.1	14	
MW04GW0215	03	10/20/15					10/22/2015	2.2	14		10/22/15	2.2	14	
MW04GW0314	04	10/20/15					10/22/2015	2.2	14		10/22/15	2.2	14	
MW04GW04R05	05	10/20/15					10/22/2015	2.3	14		10/22/15	2.3	14	
MW04GW0512	06	10/21/15					10/22/2015	1.4	14		10/22/15	1.4	14	
PZ408	07	10/20/15					10/22/2015	2.3	14		10/22/15	2.3	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 4460574
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG544056

Login Number: L15101278

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
SDW23AR04	08	10/21/15					10/23/2015	2.3	14		10/23/15	2.3	14	
SW0621D	09	10/20/15					10/23/2015	3.3	14		10/23/15	3.3	14	
SW0621	10	10/20/15					10/23/2015	3.3	14		10/23/15	3.3	14	
SW0621 MS	11	10/20/15					10/23/2015	3	14		10/23/15	3	14	
SW0621 MSD	12	10/20/15					10/23/2015	3	14		10/23/15	3	14	
ER035	13	10/21/15					10/23/2015	2.1	14		10/23/15	2.1	14	
TB058	14	10/20/15					10/23/2015	3.4	14		10/23/15	3.4	14	
FB019	15	10/20/15					10/23/2015	3.3	14		10/23/15	3.3	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 4460574
Report generated 10/29/2015 12:43

Login Number: L15101278
Instrument Id: HPMS17
Workgroup (AAB#): WG544006

Method: 8260
CAL ID: HPMS17-12-AUG-15
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L15101278-01	1.00	01	112	107	106	106
L15101278-02	1.00	01	110	105	109	108
L15101278-03	1.00	01	110	104	109	106
L15101278-04	1.00	01	113	106	110	107
L15101278-05	1.00	01	112	105	109	107
L15101278-06	1.00	01	111	104	110	107
L15101278-07	1.00	01	112	105	110	107
WG544006-01	1.00	01	113	105	106	106
WG544006-02	1.00	01	111	107	101	107
WG544006-03	1.00	01	111	106	102	107

Surrogates	Surrogate Limits
1 - 1,2-Dichloroethane-d4	70 - 120
2 - Dibromofluoromethane	85 - 115
3 - 4-Bromofluorobenzene	75 - 120
4 - Toluene-d8	85 - 120

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 4460580
Report generated: 10/29/2015 12:43

Login Number: L15101278
Instrument Id: HPMS8
Workgroup (AAB#): WG544056

Method: 8260
CAL ID: HPMS8-30-SEP-15
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L15101278-08	1.00	01	104	104	98.5	99.7
L15101278-09	1.00	01	105	105	98.2	98.4
L15101278-10	1.00	01	105	105	95.2	99.0
L15101278-11	1.00	01	105	105	95.6	99.4
L15101278-12	1.00	01	102	103	97.6	99.4
L15101278-13	1.00	01	103	104	98.8	99.5
L15101278-14	1.00	01	103	104	98.2	98.8
L15101278-15	1.00	01	105	105	97.9	98.5
WG544056-01	1.00	01	104	105	99.9	99.4
WG544056-02	1.00	01	101	102	95.9	99.2

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	120
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	75	-	120
4 - Toluene-d8	85	-	120

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 4460580
Report generated: 10/29/2015 12:43

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L15101278
Blank File ID: 17M015956
Prep Date: 10/22/15 18:59
Analyzed Date: 10/22/15 18:59
Analyst: ADC

Work Group: WG544006
Blank Sample ID: WG544006-01
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	WG544006-02	17M015957	10/22/15 19:19	01
LCS2	WG544006-03	17M015958	10/22/15 19:39	01
SW0719	L15101278-01	17M015960	10/22/15 20:18	01
MW04GW0113	L15101278-02	17M015961	10/22/15 20:38	01
MW04GW0215	L15101278-03	17M015962	10/22/15 20:58	01
MW04GW0314	L15101278-04	17M015963	10/22/15 21:18	01
MW04GW04R05	L15101278-05	17M015964	10/22/15 21:38	01
PZ408	L15101278-07	17M015965	10/22/15 21:57	01
MW04GW0512	L15101278-06	17M015966	10/22/15 22:18	01

Report Name: BLANK_SUMMARY
PDF File ID: 4461027
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L15101278
Blank File ID: 8M408229
Prep Date: 10/23/15 11:39
Analyzed Date: 10/23/15 11:39
Analyst: TMB

Work Group: WG544056
Blank Sample ID: WG544056-01
Instrument ID: HPMS8
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG544056-02	8M408230	10/23/15 12:09	01
SW0621 MS	L15101278-11	8M408231	10/23/15 12:39	01
SW0621 MSD	L15101278-12	8M408232	10/23/15 13:08	01
TB058	L15101278-14	8M408239	10/23/15 16:35	01
FB019	L15101278-15	8M408240	10/23/15 17:05	01
ER035	L15101278-13	8M408241	10/23/15 17:35	01
SW0621	L15101278-10	8M408243	10/23/15 18:34	01
SW0621D	L15101278-09	8M408245	10/23/15 19:34	01
SDW23AR04	L15101278-08	8M408246	10/23/15 20:03	01

Report Name: BLANK_SUMMARY
PDF File ID: 4461027
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L15101278 Prep Date:10/22/15 18:59 Sample ID:WG544006-01
Instrument ID:HPMS17 Run Date:10/22/15 18:59 Prep Method:5030B/5030C/503
File ID:17M015956 Analyst:ADC Method:8260B
Workgroup (AAB#):WG544006 Matrix:Water Units:ug/L
Contract #: Cal ID:HPMS17-12-AUG-15

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
2-Butanone	2.50	5.00	2.50	1	U
2-Hexanone	2.50	5.00	2.50	1	U
4-Methyl-2-pentanone	2.50	5.00	2.50	1	U
Acetone	2.50	5.00	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chloroethane	0.500	1.00	0.500	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
Cyclohexane	1.00	5.00	1.00	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
Isopropylbenzene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U
Methyl Cyclohexane	1.00	5.00	1.00	1	U
Methylene chloride	0.250	1.00	0.420	1	J
Methyl t-butyl ether (MTBE)	0.500	1.00	0.500	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Naphthalene	0.200	1.00	0.200	1	U
o-Xylene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
Styrene	0.125	1.00	0.125	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U

Report Name:BLANK
PDF ID: 4461028
29-OCT-2015 12:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L15101278 Prep Date: 10/22/15 18:59 Sample ID: WG544006-01
Instrument ID: HPMS17 Run Date: 10/22/15 18:59 Prep Method: 5030B/5030C/503
File ID: 17M015956 Analyst: ADC Method: 8260B
Workgroup (AAB#): WG544006 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS17-12-AUG-15

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	5.00	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	113	70 - 120	PASS
4-Bromofluorobenzene	106	75 - 120	PASS
Dibromofluoromethane	105	85 - 115	PASS
Toluene-d8	106	85 - 115	PASS

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 4461028
29-OCT-2015 12:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L15101278 Prep Date:10/23/15 11:39 Sample ID:WG544056-01
Instrument ID:HPMS8 Run Date:10/23/15 11:39 Prep Method:5030B/5030C/503
File ID:8M408229 Analyst:TMB Method:8260B
Workgroup (AAB#):WG544056 Matrix:Water Units:ug/L
Contract #: Cal ID: HPMS8-30-SEP-15

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
2-Butanone	2.50	5.00	2.50	1	U
2-Hexanone	2.50	5.00	2.50	1	U
4-Methyl-2-pentanone	2.50	5.00	2.50	1	U
Acetone	2.50	5.00	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chloroethane	0.500	1.00	0.500	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
Cyclohexane	1.00	5.00	1.00	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
Isopropylbenzene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U
Methyl Cyclohexane	1.00	5.00	1.00	1	U
Methylene chloride	0.250	1.00	0.250	1	U
Methyl t-butyl ether (MTBE)	0.500	1.00	0.500	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Naphthalene	0.200	1.00	0.200	1	U
o-Xylene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
Styrene	0.125	1.00	0.125	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U

Report Name:BLANK
PDF ID: 4461028
29-OCT-2015 12:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L15101278 Prep Date: 10/23/15 11:39 Sample ID: WG544056-01
Instrument ID: HPMS8 Run Date: 10/23/15 11:39 Prep Method: 5030B/5030C/503
File ID: 8M408229 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG544056 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS8-30-SEP-15

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	5.00	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
1,2-Dichloroethane-d4	104	70	-	120	PASS
4-Bromofluorobenzene	99.9	75	-	120	PASS
Dibromofluoromethane	105	85	-	115	PASS
Toluene-d8	99.4	85	-	120	PASS

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 4461028
29-OCT-2015 12:43

Login Number: L15101278 Run Date: 10/23/2015 Sample ID: WG544056-02
Instrument ID: HPMS8 Run Time: 12:09 Prep Method: 5030B/5030C/503
File ID: 8M408230 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG544056 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD73015 Cal ID: HPMS8-30-SEP-15

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1-Trichloroethane	20.0	22.3	111	65 - 130	
1,1,2,2-Tetrachloroethane	20.0	19.5	97.3	65 - 130	
1,1,2-Trichloroethane	20.0	20.3	102	75 - 125	
1,1-Dichloroethane	20.0	21.7	108	70 - 135	
1,1-Dichloroethene	20.0	21.2	106	70 - 130	
1,2,4-Trichlorobenzene	20.0	21.8	109	65 - 135	
1,2,4-Trimethylbenzene	20.0	20.5	102	75 - 130	
1,2-Dichloroethane	20.0	21.7	109	70 - 130	
1,2-Dichloropropane	20.0	21.5	107	75 - 125	
1,3,5-Trimethylbenzene	20.0	20.4	102	75 - 130	
2-Butanone	20.0	22.7	114	30 - 150	
2-Hexanone	20.0	19.4	97.1	55 - 130	
4-Methyl-2-pentanone	20.0	20.8	104	60 - 135	
Acetone	20.0	24.4	122	40 - 140	
Benzene	20.0	22.1	111	80 - 120	
Bromodichloromethane	20.0	21.4	107	75 - 120	
Bromoform	20.0	21.5	107	70 - 130	
Bromomethane	20.0	20.2	101	30 - 145	
Carbon disulfide	20.0	18.3	91.7	35 - 160	
Carbon tetrachloride	20.0	22.2	111	65 - 140	
Chlorobenzene	20.0	20.9	104	80 - 120	
Chloroethane	20.0	22.5	112	60 - 135	
Chloroform	20.0	22.4	112	65 - 135	
Chloromethane	20.0	19.8	99.2	40 - 125	
cis-1,2-Dichloroethene	20.0	21.4	107	70 - 125	
cis-1,3-Dichloropropene	20.0	22.6	113	70 - 130	
Cyclohexane	20.0	21.0	105	70 - 130	
Chlorodibromomethane	20.0	20.7	104	60 - 135	
Ethylbenzene	20.0	19.6	97.9	75 - 125	
Isopropylbenzene	20.0	22.2	111	75 - 125	
m-,p-Xylene	40.0	42.2	105	75 - 130	
Methyl Cyclohexane	20.0	21.0	105	80 - 130	
Methylene chloride	20.0	20.8	104	55 - 140	
Methyl t-butyl ether (MTBE)	20.0	23.6	118	65 - 125	
n-Butylbenzene	20.0	22.2	111	70 - 135	
n-Propylbenzene	20.0	20.4	102	70 - 130	
Naphthalene	20.0	22.9	115	55 - 140	
o-Xylene	20.0	20.7	103	80 - 120	
p-Isopropyltoluene	20.0	20.7	104	75 - 130	
sec-Butylbenzene	20.0	21.0	105	70 - 125	
Styrene	20.0	20.8	104	65 - 135	

LCS - Modified 03/06/2008
PDF File ID: 4460575
Report generated: 10/25/2015 14:49

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L15101278 Run Date: 10/23/2015 Sample ID: WG544056-02
Instrument ID: HPMS8 Run Time: 12:09 Prep Method: 5030B/5030C/503
File ID: 8M408230 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG544056 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD73015 Cal ID: HPMS8-30-SEP-15

Analytes	Expected	Found	% Rec	LCS Limits	Q
tert-Butylbenzene	20.0	20.2	101	70 - 130	
Tetrachloroethene	20.0	21.0	105	45 - 150	
Toluene	20.0	20.8	104	75 - 120	
trans-1,2-Dichloroethene	20.0	21.6	108	60 - 140	
trans-1,3-Dichloropropene	20.0	19.8	99.1	55 - 140	
Trichloroethene	20.0	21.5	107	70 - 125	
Vinyl acetate	20.0	24.2	121	10 - 190	
Vinyl chloride	20.0	18.9	94.7	50 - 145	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	101	70 - 120	PASS
4-Bromofluorobenzene	95.9	75 - 120	PASS
Dibromofluoromethane	102	85 - 115	PASS
Toluene-d8	99.2	85 - 120	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 4460575
Report generated: 10/25/2015 14:49

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L15101278 Analyst: ADC Prep Method: 5030B/5030C/503
Instrument ID: HPMS17 Matrix: Water Method: 8260B
Workgroup (AAB#): WG544006 Units: ug/L
QC Key: DOD4 Lot #: STD73034

Sample ID: WG544006-02 LCS File ID: 17M015957 Run Date: 10/22/2015 19:19
Sample ID: WG544006-03 LCS2 File ID: 17M015958 Run Date: 10/22/2015 19:39

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	19.6	98.0	20.0	19.8	98.9	0.923	65 - 130	30	
1,1,2,2-Tetrachloroethane	20.0	17.2	86.2	20.0	18.7	93.6	8.27	65 - 130	30	
1,1,2-Trichloroethane	20.0	18.9	94.7	20.0	19.1	95.6	0.929	75 - 125	30	
1,1-Dichloroethane	20.0	21.6	108	20.0	21.4	107	0.897	70 - 135	30	
1,1-Dichloroethene	20.0	20.7	103	20.0	20.6	103	0.557	70 - 130	30	
1,2,4-Trichlorobenzene	20.0	17.4	87.2	20.0	18.2	90.9	4.22	65 - 135	30	
1,2,4-Trimethylbenzene	20.0	18.9	94.7	20.0	19.3	96.6	1.96	75 - 130	30	
1,2-Dichloroethane	20.0	20.3	102	20.0	20.1	100	1.16	70 - 130	30	
1,2-Dichloropropane	20.0	21.8	109	20.0	21.8	109	0.123	75 - 125	30	
1,3,5-Trimethylbenzene	20.0	19.2	95.9	20.0	19.5	97.3	1.42	75 - 130	30	
2-Butanone	20.0	24.3	121	20.0	24.6	123	1.12	30 - 150	30	
2-Hexanone	20.0	22.0	110	20.0	23.0	115	4.12	55 - 130	30	
4-Methyl-2-pentanone	20.0	20.1	101	20.0	20.9	104	3.74	60 - 135	30	
Acetone	20.0	28.1	140	20.0	26.3	131	6.64	40 - 140	30	
Benzene	20.0	20.6	103	20.0	20.3	101	1.43	80 - 120	30	
Bromodichloromethane	20.0	19.5	97.7	20.0	19.5	97.6	0.0674	75 - 120	30	
Bromoform	20.0	19.1	95.5	20.0	19.3	96.4	0.959	70 - 130	30	
Bromomethane	20.0	17.3	86.7	20.0	19.6	97.8	12.0	30 - 145	30	
Carbon disulfide	20.0	6.56	32.8	20.0	6.96	34.8	5.97	35 - 160	30	*
Carbon tetrachloride	20.0	19.4	96.9	20.0	19.6	97.8	0.929	65 - 140	30	
Chlorobenzene	20.0	20.3	101	20.0	20.3	102	0.232	80 - 120	30	
Chloroethane	20.0	22.0	110	20.0	21.7	108	1.55	60 - 135	30	
Chloroform	20.0	20.4	102	20.0	20.2	101	1.03	65 - 135	30	
Chloromethane	20.0	23.3	117	20.0	23.3	116	0.222	40 - 125	30	
cis-1,2-Dichloroethene	20.0	18.6	92.8	20.0	18.6	93.2	0.445	70 - 125	30	
cis-1,3-Dichloropropene	20.0	19.7	98.4	20.0	20.7	104	5.14	70 - 130	30	
Cyclohexane	20.0	21.3	106	20.0	21.5	107	0.869	70 - 130	20	
Chlorodibromomethane	20.0	18.5	92.7	20.0	18.6	93.0	0.336	60 - 135	30	
Ethylbenzene	20.0	19.4	97.1	20.0	19.5	97.4	0.298	75 - 125	30	
Isopropylbenzene	20.0	20.1	100	20.0	20.2	101	0.500	75 - 125	30	
m-,p-Xylene	40.0	40.4	101	40.0	40.6	101	0.515	75 - 130	30	
Methyl t-butyl ether (MTBE)	20.0	20.7	103	20.0	20.8	104	0.794	65 - 125	30	
Methyl Cyclohexane	20.0	18.8	94.0	20.0	19.3	96.7	2.86	80 - 130	20	
Methylene chloride	20.0	19.9	99.5	20.0	19.6	98.0	1.60	55 - 140	30	
n-Butylbenzene	20.0	19.3	96.7	20.0	20.4	102	5.22	70 - 135	30	
n-Propylbenzene	20.0	20.3	102	20.0	20.7	104	1.88	70 - 130	30	
Naphthalene	20.0	16.0	79.9	20.0	16.4	82.1	2.76	55 - 140	30	
o-Xylene	20.0	19.7	98.7	20.0	19.8	98.9	0.192	80 - 120	30	
p-Isopropyltoluene	20.0	18.6	93.0	20.0	19.2	95.9	3.09	75 - 130	30	
sec-Butylbenzene	20.0	20.2	101	20.0	20.6	103	1.71	70 - 125	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 4469226
Report generated: 10/29/2015 12:43

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L15101278 Analyst: ADC Prep Method: 5030B/5030C/503
Instrument ID: HPMS17 Matrix: Water Method: 8260B
Workgroup (AAB#): WG544006 Units: ug/L
QC Key: DOD4 Lot #: STD73034

Sample ID: WG544006-02 LCS File ID: 17M015957 Run Date: 10/22/2015 19:19
Sample ID: WG544006-03 LCS2 File ID: 17M015958 Run Date: 10/22/2015 19:39

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Styrene	20.0	19.2	96.2	20.0	19.3	96.7	0.542	65 - 135	30	
tert-Butylbenzene	20.0	18.9	94.6	20.0	19.2	96.2	1.67	70 - 130	30	
Tetrachloroethene	20.0	18.3	91.4	20.0	18.5	92.6	1.35	45 - 150	30	
Toluene	20.0	18.8	94.1	20.0	18.9	94.6	0.584	75 - 120	30	
trans-1,2-Dichloroethene	20.0	19.0	95.2	20.0	18.7	93.7	1.64	60 - 140	30	
trans-1,3-Dichloropropene	20.0	18.0	89.8	20.0	18.9	94.3	4.90	55 - 140	30	
Trichloroethene	20.0	19.6	98.1	20.0	18.8	94.0	4.21	70 - 125	30	
Vinyl acetate	20.0	17.9	89.4	20.0	25.0	125	33.1	10 - 190	20	#
Vinyl chloride	20.0	22.4	112	20.0	22.8	114	1.78	50 - 145	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	111	111	70 - 120	PASS
Dibromofluoromethane	107	106	85 - 115	PASS
4-Bromofluorobenzene	101	102	75 - 120	PASS
Toluene-d8	107	107	85 - 120	PASS

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 4469226
Report generated: 10/29/2015 12:43

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L15101278 Cal ID: HPMS8- 30-SEP-15 Worknum: WG544056

Instrument ID: HPMS8 Contract #: Prep Method: 5030B/5030C/

Parent ID: L15101278-10 File ID: 8M408243 Dil: 1 Method: 5035A

Sample ID: L15101278-11 MS File ID: 8M408231 Dil: 1 Matrix: 8260B

Sample ID: L15101278-12 MSD File ID: 8M408232 Dil: 1 Units: Water

ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
1,1,1-Trichloroethane	U	20.0	21.8	109	20.0	21.9	110	0.511	65 - 130	30	
1,1,2,2-Tetrachloroethane	U	20.0	19.7	98.6	20.0	20.1	100	1.91	65 - 130	30	
1,1,2-Trichloroethane	U	20.0	20.3	101	20.0	20.0	100	1.24	75 - 125	30	
1,1-Dichloroethane	U	20.0	21.5	107	20.0	21.4	107	0.257	70 - 135	30	
1,1-Dichloroethene	U	20.0	20.5	102	20.0	20.5	103	0.270	70 - 130	30	
1,2,4-Trichlorobenzene	U	20.0	22.3	111	20.0	22.3	112	0.155	65 - 135	30	
1,2,4-Trimethylbenzene	9.88	20.0	28.9	95.1	20.0	29.3	97.3	1.48	75 - 130	30	
1,2-Dichloroethane	U	20.0	22.2	111	20.0	21.9	110	1.31	70 - 130	30	
1,2-Dichloropropane	U	20.0	21.0	105	20.0	21.2	106	0.862	75 - 125	30	
1,3,5-Trimethylbenzene	8.94	20.0	27.4	92.1	20.0	28.6	98.1	4.30	75 - 130	30	
2-Butanone	U	20.0	24.1	120	20.0	21.8	109	10.1	30 - 150	30	
2-Hexanone	U	20.0	20.9	104	20.0	20.0	99.8	4.60	55 - 130	30	
4-Methyl-2-pentanone	U	20.0	21.4	107	20.0	21.1	105	1.50	60 - 135	30	
Acetone	U	20.0	28.7	144	20.0	28.4	142	1.13	40 - 140	30	*
Benzene	U	20.0	21.5	108	20.0	21.5	107	0.185	80 - 120	30	
Bromodichloromethane	U	20.0	21.4	107	20.0	21.2	106	0.814	75 - 120	30	
Bromoform	U	20.0	22.3	111	20.0	22.0	110	1.07	70 - 130	30	
Bromomethane	U	20.0	21.9	109	20.0	22.6	113	3.17	30 - 145	30	
Carbon disulfide	U	20.0	18.6	93.1	20.0	18.0	89.9	3.49	35 - 160	30	
Carbon tetrachloride	U	20.0	21.8	109	20.0	21.3	106	2.25	65 - 140	30	
Chlorobenzene	U	20.0	20.9	104	20.0	20.9	104	0.110	80 - 120	30	
Chloroethane	U	20.0	22.0	110	20.0	21.9	110	0.0655	60 - 135	30	
Chloroform	U	20.0	22.4	112	20.0	22.2	111	0.920	65 - 135	30	
Chloromethane	U	20.0	19.3	96.4	20.0	18.4	91.9	4.77	40 - 125	30	
cis-1,2-Dichloroethene	U	20.0	21.5	107	20.0	21.0	105	2.30	70 - 125	30	
cis-1,3-Dichloropropene	U	20.0	22.5	112	20.0	22.3	111	0.916	70 - 130	30	
Cyclohexane	U	20.0	21.1	106	20.0	20.5	103	2.76	80 - 130	20	
Chlorodibromomethane	U	20.0	20.5	103	20.0	20.5	103	0.0898	60 - 135	30	
Ethylbenzene	U	20.0	19.2	96	20.0	19.3	96.7	0.677	75 - 125	30	
Isopropylbenzene	0.569	20.0	22.3	109	20.0	22.3	109	0.249	75 - 125	30	
m-,p-Xylene	4.09	40.0	45.0	102	40.0	45.2	103	0.366	75 - 130	30	
Methyl Cyclohexane	U	20.0	21.8	109	20.0	21.2	106	2.67	80 - 130	20	
Methylene chloride	U	20.0	21.1	105	20.0	20.9	105	0.897	55 - 140	30	
Methyl t-butyl ether (MTBE)	U	20.0	24.8	124	20.0	23.9	120	3.46	65 - 125	30	
n-Butylbenzene	1.72	20.0	23.2	108	20.0	23.5	109	1.22	70 - 135	30	
n-Propylbenzene	0.491	20.0	20.2	98.4	20.0	20.3	99.2	0.764	70 - 130	30	
Naphthalene	1.12	20.0	25.0	120	20.0	25.2	121	0.729	55 - 140	30	
o-Xylene	3.05	20.0	23.1	100	20.0	23.1	100	0.0775	80 - 120	30	
p-Isopropyltoluene	0.939	20.0	21.0	100	20.0	21.2	101	0.677	75 - 130	30	
sec-Butylbenzene	0.709	20.0	20.9	101	20.0	21.1	102	0.616	70 - 125	30	
Styrene	U	20.0	20.7	104	20.0	20.7	104	0.150	65 - 135	30	

MS_MSD - Modified 03/06/2008

PDF File ID: 4460576

Report generated 10/29/2015 12:43

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L15101278 Cal ID: HPMS8 30-SEP-15 Worknum: WG544056

Instrument ID: HPMS8 Contract #: Prep Method: 5030B/5030C/

Parent ID: L15101278-10 File ID: 8M408243 Dil: 1 Method: 5035A

Sample ID: L15101278-11 MS File ID: 8M408231 Dil: 1 Matrix: 8260B

Sample ID: L15101278-12 MSD File ID: 8M408232 Dil: 1 Units: Water

ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
tert-Butylbenzene	U	20.0	19.8	99.2	20.0	20.1	100	1.30	70 - 130	30	
Tetrachloroethene	U	20.0	20.7	103	20.0	20.5	103	0.698	45 - 150	30	
Toluene	U	20.0	20.3	102	20.0	20.4	102	0.183	75 - 120	30	
trans-1,2-Dichloroethene	U	20.0	21.4	107	20.0	20.9	105	2.39	60 - 140	30	
trans-1,3-Dichloropropene	U	20.0	20.0	100	20.0	20.0	99.8	0.364	55 - 140	30	
Trichloroethene	U	20.0	20.8	104	20.0	20.6	103	0.665	70 - 125	30	
Vinyl acetate	U	20.0	25.0	125	20.0	24.7	124	0.933	10 - 190	20	
Vinyl chloride	U	20.0	18.3	91.5	20.0	17.4	86.9	5.12	50 - 145	30	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

PDF File ID: 4460576

Report generated 10/29/2015 12:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L15101278
Instrument: HPMS17
Analyst: ADC
Workgroup: WG534785

Tune ID: WG534785-01
Run Date: 08/12/2015
Run Time: 14:50
File ID: 17M014367
Cal ID: HPMS17 - 12-AUG-15

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	10099	PASS
75.0	95.0	30.0	60.0	44.8	29957	PASS
95.0	95.0	100	100	100	66800	PASS
96.0	95.0	5.00	9.00	6.57	4386	PASS
173	174	0	2.00	0.711	449	PASS
174	95.0	50.0	100	94.5	63136	PASS
175	174	5.00	9.00	7.27	4587	PASS
176	174	95.0	101	98.8	62368	PASS
177	176	5.00	9.00	6.55	4082	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG534785-02	STD-CCV	01	08/12/2015 15:10	
WG534785-03	STD	01	08/12/2015 15:50	
WG534785-04	STD	01	08/12/2015 16:10	
WG534785-05	STD	01	08/12/2015 16:30	
WG534785-06	STD	01	08/12/2015 16:50	
WG534785-07	STD	01	08/12/2015 17:10	
WG534785-08	STD	01	08/12/2015 17:30	
WG534785-09	STD	01	08/12/2015 17:50	
WG534785-10	STD	01	08/12/2015 18:09	
WG534785-11	STD	01	08/12/2015 18:29	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4460578
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L15101278
Instrument: HPMS17
Analyst: ADC
Workgroup: WG536002

Tune ID: WG536002-01
Run Date: 08/21/2015
Run Time: 12:28
File ID: 17M014383
Cal ID: HPMS17 - 12-AUG-15

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	16.3	7906	PASS
75.0	95.0	30.0	60.0	47.3	22963	PASS
95.0	95.0	100	100	100	48544	PASS
96.0	95.0	5.00	9.00	6.54	3177	PASS
173	174	0	2.00	0.868	374	PASS
174	95.0	50.0	100	88.8	43109	PASS
175	174	5.00	9.00	7.48	3226	PASS
176	174	95.0	101	98.1	42301	PASS
177	176	5.00	9.00	6.49	2747	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG534785-12	SSCV	01	08/21/2015 13:07	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4460578
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L15101278
Instrument: HPMS17
Analyst: ADC
Workgroup: WG543912

Tune ID: WG543912-01
Run Date: 10/22/2015
Run Time: 11:24
File ID: 17M015933
Cal ID: HPMS17 - 12-AUG-15

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	17.8	8556	PASS
75.0	95.0	30.0	60.0	48.8	23517	PASS
95.0	95.0	100	100	100	48144	PASS
96.0	95.0	5.00	9.00	7.11	3423	PASS
173	174	0	2.00	1.22	531	PASS
174	95.0	50.0	100	90.6	43624	PASS
175	174	5.00	9.00	7.06	3078	PASS
176	174	95.0	101	96.9	42293	PASS
177	176	5.00	9.00	6.67	2822	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG543912-02	CCV	01	10/22/2015 11:41	
WG544006-01	BLANK	01	10/22/2015 18:59	
WG544006-02	LCS	01	10/22/2015 19:19	
WG544006-03	LCS2	01	10/22/2015 19:39	
L15101278-01	SW0719	01	10/22/2015 20:18	
L15101278-02	MW04GW0113	01	10/22/2015 20:38	
L15101278-03	MW04GW0215	01	10/22/2015 20:58	
L15101278-04	MW04GW0314	01	10/22/2015 21:18	
L15101278-05	MW04GW04R05	01	10/22/2015 21:38	
L15101278-07	PZ408	01	10/22/2015 21:57	
L15101278-06	MW04GW0512	01	10/22/2015 22:18	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4460578
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L15101278
Instrument: HPMS8
Analyst: TMB
Workgroup: WG540912

Tune ID: WG540912-01
Run Date: 09/30/2015
Run Time: 09:38
File ID: 8M407745
Cal ID: HPMS8-30-SEP-15

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	22.5	9471	PASS
75.0	95.0	30.0	60.0	51.7	21732	PASS
95.0	95.0	100	100	100	42018	PASS
96.0	95.0	5.00	9.00	6.75	2835	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	78.3	32893	PASS
175	174	5.00	9.00	7.63	2510	PASS
176	174	95.0	101	95.1	31272	PASS
177	176	5.00	9.00	6.85	2141	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG540912-02	STD	01	09/30/2015 10:30	
WG540912-03	STD	01	09/30/2015 10:59	
WG540912-04	STD	01	09/30/2015 11:32	
WG540912-05	STD	01	09/30/2015 12:01	
WG540912-06	STD	01	09/30/2015 12:29	
WG540912-07	STD	01	09/30/2015 12:58	
WG540912-08	STD-CCV	01	09/30/2015 13:27	
WG540912-09	STD	01	09/30/2015 13:56	
WG540912-10	STD	01	09/30/2015 14:24	
WG540912-11	STD	01	09/30/2015 14:52	
WG540912-12	SSCV	01	09/30/2015 17:27	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4460578
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L15101278
Instrument: HPMS8
Analyst: TMB
Workgroup: WG540826

Tune ID: WG540826-01
Run Date: 10/05/2015
Run Time: 11:26
File ID: 8M407827
Cal ID: HPMS8-05-OCT-15

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.7	8565	PASS
75.0	95.0	30.0	60.0	52.2	18121	PASS
95.0	95.0	100	100	100	34714	PASS
96.0	95.0	5.00	9.00	6.52	2262	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	74.2	25773	PASS
175	174	5.00	9.00	7.16	1845	PASS
176	174	95.0	101	98.5	25378	PASS
177	176	5.00	9.00	6.88	1746	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG540826-02	STD	01	10/05/2015 11:49	
WG540826-03	STD	01	10/05/2015 12:17	
WG540826-04	STD	01	10/05/2015 12:51	
WG540826-05	STD-CCV	01	10/05/2015 13:20	
WG540826-06	STD	01	10/05/2015 13:49	
WG540826-07	STD	01	10/05/2015 14:17	
WG540826-08	STD	01	10/05/2015 14:47	
WG540826-09	STD	01	10/05/2015 15:15	
WG540826-10	SSCV	01	10/05/2015 16:48	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4460578
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L15101278
Instrument: HPMS8
Analyst: TMB
Workgroup: WG544055

Tune ID: WG544055-01
Run Date: 10/23/2015
Run Time: 10:16
File ID: 8M408226
Cal ID: HPMS8-30-SEP-15

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	22.8	5875	PASS
75.0	95.0	30.0	60.0	48.9	12632	PASS
95.0	95.0	100	100	100	25809	PASS
96.0	95.0	5.00	9.00	6.88	1776	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	84.4	21792	PASS
175	174	5.00	9.00	7.22	1573	PASS
176	174	95.0	101	96.7	21073	PASS
177	176	5.00	9.00	6.89	1451	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG544055-02	CCV	01	10/23/2015 10:40	
WG544056-01	BLANK	01	10/23/2015 11:39	
WG544056-02	LCS	01	10/23/2015 12:09	
L15101278-11	SW0621 MS	01	10/23/2015 12:39	
L15101278-12	SW0621 MSD	01	10/23/2015 13:08	
L15101278-14	TB058	01	10/23/2015 16:35	
L15101278-15	FB019	01	10/23/2015 17:05	
L15101278-13	ER035	01	10/23/2015 17:35	
L15101278-10	SW0621	01	10/23/2015 18:34	
L15101278-09	SW0621D	01	10/23/2015 19:34	
L15101278-08	SDW23AR04	01	10/23/2015 20:03	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4460578
Report generated 10/29/2015 12:43

Response Factor Report HPMS17

Method Path : D:\MassHunter\GCMS\1\methods\
Method File : 826VMS.M
Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
Last Update : Thu Aug 20 16:10:41 2015
Response Via : Initial Calibration
Curve: WG534785
Calibration Files
0.3 =17M014370.D 0.4 =17M014371.D 1 =17M014372.D 2 =17M014373.D 5 =17M014374.D 20 =17M014375.D 50 =17M014368.D
100 =17M014376.D 200 =17M014377.D 300 =17M014378.D

		Compound	0.3	0.4	1	2	5	20	50	100	200	300	Avg	%RSD	Linear	Quadratic
1)	I	Fluorobenzene	----------	----------	ISTD	----------	----------	----------	----------	----------	----------	----------				
2)	T	Dichlorodifluo...			0.280	0.284	0.271	0.331	0.331	0.352	0.345	0.327	0.315	10.08		
3)	P	Chloromethane			0.260	0.253	0.242	0.249	0.250	0.259	0.265	0.259	0.255	2.88		
4)	C	Vinyl Chloride		0.288	0.285	0.281	0.278	0.296	0.291	0.317	0.317	0.304	0.295	4.94#		
5)	T	1,3-Butadiene		0.245	0.220	0.223	0.211	0.225	0.224	0.236	0.245	0.234	0.229	5.06		
6)	T	Bromomethane			0.188	0.174	0.149	0.141	0.118	0.170	0.183	0.177	0.163	14.76		
7)	T	Chloroethane			0.180	0.219	0.220	0.177	0.129	0.125	0.114	0.105	0.159	29.39		0.994
8)	T	Trichlorofluor...		0.446	0.428	0.424	0.423	0.444	0.433	0.452			0.436	2.63		
9)	T	Diethyl ether		0.196	0.183	0.189	0.186	0.181	0.170	0.190	0.191	0.185	0.186	3.97		
10)	C	1,1-Dichloroet...		0.385	0.367	0.368	0.356	0.370	0.363	0.387	0.386	0.375	0.373	2.96#		
11)	T	Carbon Disulfide		0.928	0.789	0.851	0.766	0.789	0.780	0.824	0.830	0.788	0.816	6.13		
12)	T	1,1,2-Trichlor...		0.267	0.266	0.258	0.252	0.265	0.263	0.273	0.270	0.261	0.264	2.41		
13)	T	Iodomethane			0.186	0.246	0.366	0.475	0.459	0.498	0.492	0.447	0.396	30.16	0.997	
14)	T	Acrolein					0.036	0.029	0.025	0.030	0.030	0.029	0.030	11.79		
15)	T	Methylene Chlo...		0.324	0.303	0.282	0.268	0.270	0.260	0.278	0.278	0.271	0.282	7.05		
16)	T	Acetone					0.048	0.044	0.036	0.043	0.042	0.040	0.042	9.39		
17)	T	trans-1,2-Dich...		0.285	0.268	0.263	0.255	0.261	0.256	0.272	0.276	0.270	0.267	3.65		
18)	T	Methyl Acetate	0.168	0.214	0.161	0.144	0.144	0.146	0.131	0.153	0.154	0.149	0.156	14.57		
19)	T	Methyl Tert Bu...		0.693	0.653	0.659	0.642	0.647	0.586	0.667	0.662	0.649	0.651	4.37		
20)	P	1,1-Dichloroet...		0.478	0.455	0.452	0.450	0.457	0.446	0.476	0.478	0.468	0.462	2.82		
21)	T	Acrylonitrile				0.059	0.059	0.058	0.052	0.060	0.061	0.058	0.058	4.79		
22)	T	Vinyl Acetate					0.012	0.016	0.017	0.018	0.019	0.018	0.016	13.64		
23)	T	cis-1,2-Dichlo...		0.330	0.309	0.304	0.290	0.295	0.286	0.307	0.309	0.304	0.304	4.27		
24)	T	2,2-Dichloropr...		0.427	0.380	0.367	0.362	0.371	0.401	0.399	0.401	0.388	0.388	5.33		
25)	T	Cyclohexane		0.457	0.426	0.417	0.409	0.414	0.410	0.429	0.436	0.420	0.424	3.60		
26)	T	Bromochloromet...			0.183	0.185	0.186	0.191	0.182	0.201	0.202	0.199	0.191	4.42		
27)	C	Chloroform	0.631	0.517	0.477	0.478	0.471	0.475	0.455	0.491	0.489	0.476	0.496	10.08#		
28)	T	Carbon Tetrach...		0.374	0.383	0.382	0.383	0.399	0.398	0.425	0.432	0.422	0.400	5.38		
29)	S	Dibromofluorom...					0.256	0.246	0.265	0.261	0.253		0.256	2.93		
30)	T	1,1,1-Trichlor...		0.484	0.436	0.439	0.428	0.440	0.426	0.457	0.457	0.444	0.445	4.05		
31)	T	1,1-Dichloropr...		0.364	0.342	0.344	0.339	0.350	0.345	0.369	0.373	0.365	0.355	3.68		
32)	T	2-Butanone					0.078	0.071	0.059	0.072	0.069	0.064	0.069	9.34		
33)	T	Benzene		1.131	1.080	1.059	1.040	1.059	1.022	1.086	1.085	1.046	1.068	3.02		
34)	S	1,2-Dichloroet...					0.244	0.225	0.234	0.238	0.226		0.233	3.54		
35)	T	1,2-Dichloroet...		0.324	0.319	0.318	0.316	0.320	0.297	0.330	0.327	0.319	0.319	2.91		
36)	T	Methylcyclohexane	0.502	0.510	0.488	0.463	0.455	0.469	0.470	0.489	0.494	0.477	0.482	3.70		
37)	T	Trichloroethene		0.345	0.324	0.310	0.310	0.315	0.303	0.332	0.334	0.326	0.322	4.20		
38)	T	Dibromomethane		0.158	0.154	0.152	0.156	0.158	0.148	0.168	0.167		0.158	4.40		
39)	C	1,2-Dichloropr...		0.284	0.273	0.274	0.265	0.266	0.260	0.279	0.281	0.274	0.273	2.95#		

40)	T	Bromodichlorom...		0.386	0.364	0.357	0.352	0.361	0.353	0.386	0.386	0.371	0.368	3.92
41)	T	1,4-Dioxane						0.002	0.002	0.002	0.002	0.002	0.002	8.31
42)	T	2-Chloroethyl ...			0.121	0.128	0.125	0.131	0.118	0.130	0.124	0.113	0.124	5.09
43)	T	cis-1,3-Dichlo...		0.442	0.399	0.399	0.400	0.413	0.410	0.445	0.448	0.431	0.421	4.91
44)	T	4-Methyl-2-Pen...					0.064	0.065	0.055	0.067	0.067	0.060	0.063	7.41
45)	T	trans-1,3-Dich...		0.358	0.347	0.351	0.342	0.358	0.345	0.385	0.386		0.359	4.83
46)	I	Chlorobenzene-d5	----------ISTD----------											
47)	S	Toluene-d8					1.342	1.232	1.337	1.268	1.232		1.282	4.22
48)	C	Toluene		2.199	1.803	1.722	1.655	1.619	1.579	1.621	1.610	1.576	1.709	11.55#
49)	T	Tetrachloroethene		0.498	0.457	0.457	0.454	0.460	0.458	0.475	0.480	0.487	0.470	3.39
50)	T	1,1,2-Trichlor...		0.322	0.314	0.309	0.303	0.296	0.275	0.301	0.301	0.300	0.302	4.35
51)	T	Dibromochlorom...		0.380	0.390	0.383	0.385	0.392	0.383	0.420	0.427	0.428	0.399	5.09
52)	T	1,3-Dichloropr...		0.505	0.482	0.476	0.469	0.459	0.429	0.470	0.470	0.469	0.470	4.24
53)	T	1,2-Dibromoethane		0.322	0.298	0.317	0.305	0.302	0.277	0.311	0.310	0.311	0.306	4.32
54)	T	2-Hexanone				0.172	0.159	0.153	0.131	0.156	0.155	0.147	0.153	8.21
55)	P	Chlorobenzene		1.161	1.062	1.070	1.061	1.059	1.043	1.097	1.085	1.038	1.075	3.45
56)	T	1-Chlorohexane		0.118	0.097	0.093	0.089	0.091	0.095	0.097	0.099	0.096	0.097	8.68
57)	C	Ethylbenzene		0.594	0.574	0.579	0.568	0.569	0.565	0.593	0.589	0.565	0.577	2.07#
58)	T	1,1,1,2-Tetrac...		0.414	0.397	0.405	0.401	0.400	0.392	0.415	0.414	0.401	0.405	2.04
59)	T	m-,p-Xylene		0.742	0.690	0.687	0.695	0.692	0.686	0.711	0.666	0.598	0.685	5.65
60)	T	o-Xylene		0.725	0.683	0.692	0.688	0.680	0.669	0.703	0.697	0.662	0.689	2.74
61)	T	Styrene		1.150	1.092	1.118	1.110	1.112	1.097	1.166	1.133	1.042	1.113	3.23
62)	P	Bromoform		0.260	0.245	0.259	0.261	0.270	0.259	0.295	0.296		0.268	6.80
63)	T	Isopropylbenzene		1.907	1.804	1.811	1.810	1.799	1.767	1.842	1.733	1.544	1.780	5.65
64)	I	1,4-Dichlorobenzen...	----------ISTD----------											
65)	T	1,3,5-Trimethy...		3.217	2.986	2.980	3.038	2.951	2.967	2.937	2.787	2.570	2.937	6.03
66)	S	p-Bromofluorob...					0.886	0.795	0.915	0.870	0.860		0.865	5.13
67)	T	Bromobenzene	1.238	1.017	0.976	0.952	0.968	0.934	0.930	0.953			0.996	10.21
68)	T	n-Propylbenzene		4.022	3.802	3.785	3.845	3.762	3.830	3.769	3.553	3.263	3.737	5.74
69)	P	1,1,2,2-Tetrac...		0.741	0.681	0.671	0.683	0.653	0.606	0.652	0.655	0.656	0.666	5.40
70)	T	2-Chlorotoluene		2.606	2.416	2.367	2.385	2.294	2.316	2.301	2.257	2.162	2.345	5.27
71)	T	1,2,3-Trichlor...		0.206	0.186	0.193	0.190	0.182	0.166	0.182	0.179	0.174	0.184	6.27
72)	T	trans-1,4-Dich...	0.083	0.126	0.128	0.116	0.124	0.124	0.125	0.133	0.133	0.133	0.123	12.10
73)	T	1,2,4-Trimethy...		3.174	3.003	2.954	3.002	2.915	2.942	2.912	2.781	2.568	2.917	5.72
74)	T	4-Chlorotoluene		2.582	2.330	2.351	2.389	2.331	2.324	2.329	2.302	2.204	2.349	4.29
75)	T	tert-Butylbenzene		0.625	0.583	0.582	0.581	0.563	0.565	0.574	0.572	0.556	0.578	3.44
76)	T	sec-Butylbenzene		3.882	3.689	3.638	3.734	3.651	3.674	3.614	3.364	3.030	3.586	6.93
77)	T	p-Isopropyltol...		3.246	3.126	3.119	3.223	3.191	3.248	3.197	2.969	2.652	3.108	6.17
78)	T	1,3-Dichlorobe...		1.851	1.735	1.696	1.737	1.690	1.701	1.728	1.713	1.639	1.721	3.32
79)	T	1,4-Dichlorobe...	2.238	1.832	1.710	1.680	1.691	1.652	1.672	1.700	1.688	1.606	1.747	10.41
80)	T	n-Butylbenzene		2.706	2.517	2.503	2.625	2.679	2.793	2.756	2.652	2.406	2.626	4.86
81)	T	1,2-Dichlorobe...	2.080	1.786	1.668	1.658	1.678	1.624	1.607	1.643	1.629	1.559	1.693	8.74
82)	T	1,2-Dibromo-3-...				0.111	0.118	0.116	0.108	0.122	0.123	0.126	0.118	5.57
83)	T	Hexachlorobuta...		0.820	0.742	0.738	0.763	0.751	0.752	0.755	0.774	0.736	0.759	3.41
84)	T	1,2,4-Trichlor...		1.328	1.168	1.176	1.249	1.241	1.231	1.284	1.322	1.267	1.252	4.48
85)	T	Naphthalene		2.579	2.369	2.401	2.454	2.379	2.161	2.379	2.340	2.222	2.365	5.13
86)	T	1,2,3-Trichlor...		1.298	1.134	1.157	1.205	1.184	1.131	1.206	1.233	1.173	1.191	4.41

(#) = Out of Range

826VMS.M Wed Aug 26 12:09:58 2015

Calibration Table Report
Method: A9FOOWTR.M
Title: A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Calibration: Tue Oct 06 11:55:21 2015
Curve: WG540826
Calibration Files

	Compound		5 8M407828.D	20 8M407829.D	50 8M407830.D	100 8M407831.D	200 8M407832.D	300 8M407833.D	400 8M407834.D	500 8M407835.D	Avg	%RSD
I	Fluorobenzene	ISTD										
T	Acetonitrile		0.020	0.019	0.020	0.019	0.019	0.019	0.019	0.019	0.019	3.019
T	3-Chloro-1-propene		0.474	0.484	0.476	0.471	0.484	0.465	0.458	0.432	0.468	3.632
T	2-Chloro-1,3-butadiene		0.448	0.481	0.482	0.486	0.514	0.495	0.486	0.460	0.481	4.206
T	Ethyl Acetate		0.104	0.129	0.132	0.131	0.132	0.128	0.128	0.133	0.127	7.528
T	Methacrylonitrile		0.046	0.055	0.058	0.057	0.057	0.056	0.057	0.060	0.056	7.551
T	Isobutyl Alcohol				0.005	0.005	0.005	0.005	0.005	0.006	0.005	4.964
T	1-Butanol				0.002	0.002	0.003	0.003	0.003	0.003	0.003	10.874
T	Methyl methacrylate		0.120	0.147	0.158	0.162	0.162	0.158	0.160	0.165	0.154	9.638
T	2-Nitropropane				0.021	0.022	0.025	0.026	0.029	0.031	0.026	14.916
I	Chlorobenzene-d5	ISTD										
I	1,4-Dichlorobenzene-d4	ISTD										
T	Cyclohexanone				0.057	0.052	0.054	0.051	0.052	0.054	0.053	3.733

Tue Oct 06 11:57:17 2015

Calibration Table Report
Method: 8260WT.M
Title: Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Calibration: Wed Sep 30 15:45:31 2015
Curve: WG540912
Calibration Files

	Compound	0.3 8M407747.D	0.4 8M407748.D	1 8M407749.D	2 8M407750.D	5 8M407751.D	20 8M407752.D	50 8M407753.D	100 8M407754.D	200 8M407755.D	300 8M407756.D	Avg	%RSD	Linear	Quad
I	Fluorobenzene	ISTD													
T	Dichlorodifluoromethane		0.380	0.381	0.359	0.346	0.426	0.391	0.412	0.377	0.348	0.380	7.176		
P	Chloromethane			0.693	0.621	0.587	0.619	0.579	0.579	0.515	0.447	0.580	12.684		
C	Vinyl Chloride		0.547	0.520	0.465	0.459	0.488	0.424	0.407	0.355		0.458	13.571		
T	1,3-Butadiene					0.415	0.434	0.316	0.248	0.208	0.174	0.299	36.091		1.007
T	Bromomethane			0.104	0.099	0.100	0.128	0.142	0.174	0.183	0.185	0.139	26.623		1.000
T	Chloroethane		0.143	0.197	0.184	0.189	0.202	0.190	0.198	0.194	0.186	0.187	9.444		
T	Trichlorofluoromethane		0.452	0.468	0.421	0.434	0.455	0.428	0.456	0.442	0.431	0.443	3.518		
T	Diethyl ether			0.169	0.169	0.169	0.164	0.164	0.176		0.184	0.170	4.169		
T	Isoprene		0.296	0.323	0.283	0.302	0.340	0.346	0.362	0.340	0.334	0.325	8.057		
T	Acrolein				0.021	0.021	0.020	0.020	0.021		0.024	0.021	7.793		
T	1,1,2-Trichloro-1,2,2-Trifluoroethane			0.245	0.229	0.236	0.244	0.233	0.251	0.239	0.228	0.238	3.475		
T	Acetone					0.038	0.037	0.033	0.034	0.042	0.039	0.037	8.864		
C	1,1-Dichloroethene		0.427	0.426	0.381	0.398	0.408	0.387	0.419	0.413	0.389	0.405	4.243		
T	Tert-Butyl Alcohol				0.011	0.011	0.011	0.010	0.011		0.012	0.011	6.872		
T	Dimethyl Sulfide		0.193	0.233	0.224	0.224	0.238	0.236	0.247	0.252	0.246	0.233	7.587		
T	Iodomethane				0.047	0.081	0.127	0.149	0.172	0.165	0.153	0.128	36.698	0.997	
T	Methyl acetate					0.149	0.139	0.127	0.137	0.146	0.145	0.140	5.557		
T	Methylene Chloride			0.270	0.237	0.247	0.257	0.244	0.253	0.257	0.248	0.252	4.037		
T	Carbon Disulfide			0.873	0.793	0.800	0.856	0.843	0.864	0.807	0.740	0.822	5.489		
T	Acrylonitrile			0.050	0.050	0.052	0.054	0.055	0.058		0.071	0.056	13.209		
T	Methyl Tert Butyl Ether			0.456	0.433	0.479	0.485	0.464	0.497	0.514	0.489	0.477	5.314		
T	trans-1,2-Dichloroethene		0.375	0.384	0.364	0.378	0.395	0.384	0.409	0.401	0.375	0.385	3.701		
T	n-Hexane					0.371	0.385	0.388	0.404	0.375	0.358	0.380	4.129		
T	Diisopropyl ether			0.990	0.981	0.965	0.946	0.947	0.950		0.862	0.949	4.398		
T	Vinyl Acetate		0.248	0.230	0.237	0.265	0.261	0.253	0.253	0.264	0.258	0.252	4.767		
P	1,1-Dichloroethane		0.482	0.508	0.482	0.490	0.497	0.477	0.504	0.496	0.464	0.489	2.856		
T	Ethyl-Tert-Butyl ether			0.749	0.754	0.756	0.741	0.738	0.765		0.729	0.747	1.610		
T	2-Butanone					0.061	0.063	0.059	0.065	0.067	0.068	0.064	5.457		
T	Propionitrile			0.017	0.019	0.019	0.019	0.018	0.019		0.021	0.019	7.390		
T	2,2-Dichloropropane		0.393	0.438	0.390	0.399	0.421	0.403	0.428	0.414	0.389	0.408	4.343		
T	cis-1,2-Dichloroethene		0.265	0.291	0.270	0.271	0.278	0.269	0.280	0.281	0.266	0.275	3.128		
C	Chloroform	0.453	0.499	0.475	0.451	0.465	0.477	0.460	0.474	0.462	0.427	0.464	4.130		
T	1-Bromopropane			0.036	0.044	0.045	0.048	0.048	0.048	0.046	0.045	0.045	8.589		
T	Bromochloromethane		0.117	0.143	0.125	0.136	0.138	0.136	0.142	0.143	0.137	0.135	6.408		
T	Tetrahydrofuran			0.046	0.041	0.041	0.040	0.039	0.040		0.045	0.042	6.813		
S	Dibromofluoromethane			0.228	0.229	0.236	0.244	0.239	0.247	0.244	0.237	0.238	2.882		
T	1,1,1-Trichloroethane		0.396	0.411	0.383	0.413	0.432	0.420	0.449	0.436	0.411	0.417	4.879		
T	Cyclohexane			0.500	0.472	0.470	0.505	0.502	0.528	0.506	0.485	0.496	3.912		
T	1,1-Dichloropropene			0.372	0.320	0.353	0.376	0.358	0.382	0.366	0.344	0.359	5.566		
T	Tert-Amyl-Methyl ether			0.553	0.552	0.554	0.550	0.539	0.564		0.567	0.554	1.666		
T	Carbon Tetrachloride		0.342	0.387	0.342	0.352	0.388	0.378	0.409	0.384	0.37	0.3725	6.23053		
S	1,2-Dichloroethane-d4			0.227	0.237	0.235	0.251	0.242	0.251	0.252	0.245	0.2426	3.75472		
T	Heptane											0	0		
T	1,2-Dichloroethane		0.282	0.308	0.304	0.32	0.332	0.319	0.338	0.344	0.323	0.3188	5.97586		
T	Benzene	0.948	1.053	1.068	1.016	1.012	1.055	1.009	1.017	0.904	0.765	0.9846	9.33012		
T	Trichloroethene		0.296	0.263	0.255	0.248	0.271	0.259	0.276	0.265	0.254	0.2651	5.51495		
T	Methylcyclohexane					0.405	0.421	0.417	0.43	0.403	0.385	0.4101	3.90762		
C	1,2-Dichloropropane		0.238	0.269	0.253	0.265	0.275	0.263	0.278	0.28	0.267	0.2652	4.99091		
T	Bromodichloromethane		0.331	0.324	0.32	0.329	0.357	0.348	0.364	0.365	0.343	0.3424	5.04612		
T	1,4-Dioxane					0.001	0.001	0.001	0.001		0.001	0.0012	13.1586		
T	Dibromomethane		0.113	0.119	0.121	0.13	0.132	0.125	0.13	0.135	0.131	0.1263	5.73877		
T	2-Chloroethyl Vinyl Ether					0.1	0.109	0.103	0.112	0.115	0.117	0.1093	6.11607		
T	4-Methyl-2-Pentanone					0.051	0.055	0.051	0.056	0.06	0.063	0.0561	8.3812		
T	cis-1,3-Dichloropropene		0.36	0.371	0.355	0.364	0.398	0.387	0.405	0.404	0.376	0.3801	5.00621		

T	Dimethyl Disulfide					0.158	0.19	0.202	0.22	0.232	0.227	0.2049	13.705
I	Chlorobenzene-d5	ISTD											
S	Toluene-d8			1.192	1.154	1.143	1.206	1.188	1.231	1.129	1.036	1.16	5.2193
C	Toluene		1.586	1.558	1.513	1.462	1.54	1.446	1.465	1.226	0.99	1.4206	13.5587
T	Ethyl Methacrylate			0.229	0.248	0.275	0.293	0.284	0.312	0.318	0.307	0.2832	11.1162
T	Paraldehyde											0	0
T	trans-1,3-Dichloropropene			0.382	0.396	0.43	0.454	0.443	0.474	0.47	0.437	0.4358	7.50736
T	1,1,2-Trichloroethane		0.215	0.213	0.222	0.233	0.23	0.218	0.234	0.237	0.228	0.2255	3.87257
T	2-Hexanone					0.062	0.072	0.065	0.073	0.076	0.077	0.0709	8.49385
T	1,3-Dichloropropane		0.409	0.416	0.386	0.399	0.412	0.389	0.418	0.411	0.387	0.4029	3.20744
T	Tetrachloroethene		0.274	0.335	0.293	0.297	0.304	0.295	0.319	0.307	0.293	0.302	5.77936
T	Dibromochloromethane		0.265	0.264	0.262	0.285	0.303	0.293	0.318	0.324	0.31	0.2915	8.29724
T	1,2-Dibromoethane		0.235	0.211	0.202	0.225	0.233	0.22	0.235	0.239	0.226	0.2251	5.51845
T	1-Chlorohexane		0.511	0.53	0.496	0.497	0.518	0.521	0.539	0.499	0.464	0.5083	4.39894
P	Chlorobenzene		1.019	0.978	0.95	0.944	0.986	0.956	1.013	0.935	0.787	0.9519	7.22423
T	1,1,1,2-Tetrachloroethane		0.265	0.325	0.323	0.339	0.363	0.358	0.402	0.41	0.382	0.352	12.8056
C	Ethylbenzene		0.553	0.548	0.513	0.519	0.561	0.544	0.602	0.603	0.549	0.5545	5.65783
T	m-,p-Xylene		0.653	0.672	0.647	0.659	0.677	0.656	0.688	0.594	0.478	0.6359	10.2214
T	o-Xylene			0.69	0.616	0.608	0.654	0.636	0.672	0.662	0.607	0.6431	4.84917
T	Styrene		0.957	1.011	0.983	1.079	1.09	1.068	1.114	1.015	0.854	1.0189	7.95219
P	Bromoform			0.143	0.145	0.164	0.179	0.174	0.193	0.203	0.201	0.1753	13.4432
T	Isopropylbenzene		1.674	1.711	1.59	1.59	1.701	1.607	1.616	1.333	1.062	1.5426	13.7434
I	1,4-Dichlorobenzene-d4	ISTD											
P	1,1,2,2-Tetrachloroethane		0.466	0.431	0.447	0.482	0.487	0.445	0.461	0.475	0.456	0.4612	3.98563
S	p-Bromofluorobenzene				0.839	0.861	0.897	0.872	0.9	0.883	0.855	0.8723	2.5773
T	1,2,3-Trichloropropane			0.117	0.121	0.128	0.136	0.124	0.131	0.136	0.132	0.1282	5.47011
T	trans-1,4-Dichloro-2-Butene			0.165	0.121	0.159	0.173	0.169	0.184	0.195	0.191	0.1695	13.7331
T	n-Propylbenzene		3.853	4.064	3.646	3.829	3.894	3.605	3.431	2.634		3.6196	12.2626
T	Bromobenzene	0.716	0.667	0.795	0.742	0.733	0.765	0.727	0.757	0.745	0.701	0.7348	4.83527
T	1,3,5-Trimethylbenzene		2.694	2.781	2.538	2.617	2.699	2.581	2.572	2.175	1.741	2.4886	13.2002
T	2-Chlorotoluene		2.572	2.712	2.449	2.619	2.629	2.438	2.425	2.115	1.617	2.3974	14.1849
T	4-Chlorotoluene		2.301	2.388	2.204	2.076	2.232	2.159	2.12	1.736	1.443	2.0734	14.4053
T	a-Methylstyrene					1.309	1.407	1.402	1.437	1.365	1.219	1.3567	5.94098
T	tert-Butylbenzene			0.554	0.526	0.527	0.551	0.531	0.57	0.571	0.55	0.5475	3.2892
T	1,2,4-Trimethylbenzene		2.628	2.739	2.592	2.702	2.752	2.637	2.622	2.21	1.751	2.5147	13.0606
T	sec-Butylbenzene			3.403	3.108	3.202	3.306	3.103	3.049	2.467		3.0914	9.77187
T	p-Isopropyltoluene			2.69	2.604	2.632	2.712	2.601	2.619	2.181	1.735	2.4717	13.7983
T	1,3-Dichlorobenzene		1.534	1.588	1.433	1.519	1.547	1.468	1.495	1.403	1.213	1.4666	7.58144
T	1,4-Dichlorobenzene	1.487	1.624	1.584	1.427	1.505	1.506	1.438	1.464	1.381	1.188	1.4604	8.193
T	n-Butylbenzene			2.514	2.27	2.452	2.509	2.482	2.49	2.075	1.64	2.3041	13.4157
T	1,2-Dichlorobenzene	1.241	1.291	1.402	1.288	1.325	1.343	1.269	1.306	1.257	1.11	1.2833	5.96211
T	1,2-Dibromo-3-Chloropropane				0.068	0.075	0.084	0.078	0.083	0.09	0.087	0.0808	9.2848
T	1,2,4-Trichlorobenzene		0.786	0.858	0.844	0.9	0.906	0.905	0.947	0.946	0.843	0.8816	6.03392
T	Hexachlorobutadiene		0.419	0.411	0.423	0.422	0.427	0.417	0.442	0.432	0.402	0.4217	2.75284
T	Naphthalene		1.416	1.32	1.314	1.295	1.264	1.247	1.273	1.259	1.084	1.2746	6.86659
T	1,2,3-Trichlorobenzene	0.681	0.712	0.793	0.719	0.764	0.777	0.762	0.79	0.8	0.72	0.7518	5.44426

Thu Oct 01 09:11:48 2015

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number:L15101278 Run Date:08/21/2015 Sample ID:WG534785-12
Instrument ID:HPMS17 Run Time:13:07 Method:8260B
File ID:17M014385 Analyst:ADC QC Key:DOD4
ICal Workgroup:WG534785 Cal ID:HPMS17 - 12-AUG-15

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	50.8	ug/L	0.379	1.50	20	
1,2-Dichloropropane	CCC	50.0	52.8	ug/L	0.288	5.70	20	
Chloroform	CCC	50.0	50.9	ug/L	0.505	1.90	20	
Ethylbenzene	CCC	50.0	52.2	ug/L	0.603	4.40	20	
Toluene	CCC	50.0	50.7	ug/L	1.73	1.50	20	
Vinyl Chloride	CCC	50.0	58.0	ug/L	0.343	16.1	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	45.0	ug/L	0.600	10.0	20	
1,1-Dichloroethane	SPCC	50.0	53.3	ug/L	0.493	6.60	20	
Bromoform	SPCC	50.0	49.5	ug/L	0.266	0.900	20	
Chlorobenzene	SPCC	50.0	53.5	ug/L	1.15	6.90	20	
Chloromethane	SPCC	50.0	58.6	ug/L	0.299	17.2	20	
1,1,1-Trichloroethane		50.0	52.5	ug/L	0.468	5.00	20	
1,1,2-Trichloroethane		50.0	45.4	ug/L	0.275	9.20	20	
1,2,4-Trichlorobenzene		50.0	51.7	ug/L	1.30	3.50	20	
1,2,4-Trimethylbenzene		50.0	51.4	ug/L	3.00	2.80	20	
1,2-Dichloroethane		50.0	49.0	ug/L	0.313	1.90	20	
1,3,5-Trimethylbenzene		50.0	52.8	ug/L	3.10	5.60	20	
2-Butanone		50.0	48.3	ug/L	0.0664	3.50	20	
2-Hexanone		50.0	47.0	ug/L	0.144	6.00	20	
4-Methyl-2-Pentanone		50.0	44.4	ug/L	0.0559	11.2	20	
Acetone		50.0	50.3	ug/L	0.0424	0.600	20	
Benzene		50.0	51.7	ug/L	1.10	3.50	20	
Bromodichloromethane		50.0	49.5	ug/L	0.365	1.10	20	
Bromomethane		50.0	51.1	ug/L	0.166	2.30	20	
Carbon Disulfide		50.0	26.8	ug/L	0.438	46.4	20	*
Carbon Tetrachloride		50.0	53.6	ug/L	0.429	7.20	20	
Chloroethane		50.0	49.8	ug/L	0.137	0.500	20	
cis-1,2-Dichloroethene		50.0	49.3	ug/L	0.300	1.40	20	
cis-1,3-Dichloropropene		50.0	53.3	ug/L	0.448	6.60	20	
Cyclohexane		50.0	53.4	ug/L	0.453	6.80	30	
Dibromochloromethane		50.0	48.3	ug/L	0.385	3.50	20	
Isopropylbenzene		50.0	53.7	ug/L	1.91	7.50	20	
m-,p-Xylene		100	108	ug/L	0.742	8.30	20	
Methylcyclohexane		50.0	52.2	ug/L	0.503	4.40	30	
Methylene Chloride		50.0	47.2	ug/L	0.266	5.70	20	
Methyl Tert Butyl Ether		50.0	51.7	ug/L	0.673	3.40	20	
n-Butylbenzene		50.0	55.0	ug/L	2.89	10.1	20	
n-Propylbenzene		50.0	55.3	ug/L	4.14	10.7	20	
Naphthalene		50.0	45.3	ug/L	2.14	9.40	20	
o-Xylene		50.0	52.5	ug/L	0.724	5.10	20	
p-Isopropyltoluene		50.0	52.9	ug/L	3.29	5.80	20	
sec-Butylbenzene		50.0	54.6	ug/L	3.92	9.30	20	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4460577
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L15101278 Run Date: 08/21/2015 Sample ID: WG534785-12
Instrument ID: HPMS17 Run Time: 13:07 Method: 8260B
File ID: 17M014385 Analyst: ADC QC Key: DOD4
ICal Workgroup: WG534785 Cal ID: HPMS17 - 12-AUG-15

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Styrene		50.0	50.7	ug/L	1.13	1.50	20	
tert-Butylbenzene		50.0	52.4	ug/L	0.605	4.70	20	
Tetrachloroethene		50.0	53.8	ug/L	0.505	7.60	20	
trans-1,2-Dichloroethene		50.0	49.9	ug/L	0.267	0.200	20	
trans-1,3-Dichloropropene		50.0	48.1	ug/L	0.345	3.90	20	
Trichloroethene		50.0	49.6	ug/L	0.319	0.900	20	
Vinyl Acetate		50.0	102	ug/L	0.0336	104	40	*

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4460577
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number:L15101278 Run Date:09/30/2015 Sample ID:WG540912-12
Instrument ID:HPMS8 Run Time:17:27 Method:8260B
File ID:8M407761 Analyst:TMB QC Key:DOD4
ICal Workgroup:WG540912 Cal ID: HPMS8 - 30-SEP-15

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	49.6	ug/L	0.402	0.800	20	
1,2-Dichloropropane	CCC	50.0	51.4	ug/L	0.273	2.90	20	
Chloroform	CCC	50.0	53.5	ug/L	0.497	7.10	20	
Ethylbenzene	CCC	50.0	49.2	ug/L	0.546	1.60	20	
Toluene	CCC	50.0	50.2	ug/L	1.42	0.300	20	
Vinyl Chloride	CCC	50.0	44.0	ug/L	0.404	12.0	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	47.9	ug/L	0.442	4.10	20	
1,1-Dichloroethane	SPCC	50.0	51.9	ug/L	0.507	3.70	20	
Bromoform	SPCC	50.0	51.2	ug/L	0.180	2.40	20	
Chlorobenzene	SPCC	50.0	51.8	ug/L	0.986	3.50	20	
Chloromethane	SPCC	50.0	49.6	ug/L	0.576	0.700	20	
1,1,1-Trichloroethane		50.0	55.1	ug/L	0.460	10.3	20	
1,1,2-Trichloroethane		50.0	47.4	ug/L	0.214	5.20	20	
1,2,4-Trichlorobenzene		50.0	49.3	ug/L	0.869	1.40	20	
1,2,4-Trimethylbenzene		50.0	51.5	ug/L	2.59	3.00	20	
1,2-Dichloroethane		50.0	52.5	ug/L	0.335	5.10	20	
1,3,5-Trimethylbenzene		50.0	52.6	ug/L	2.62	5.30	20	
2-Butanone		50.0	54.2	ug/L	0.0693	8.40	20	
2-Hexanone		50.0	48.3	ug/L	0.0684	3.50	20	
4-Methyl-2-Pentanone		50.0	50.6	ug/L	0.0568	1.30	20	
Acetone		50.0	59.2	ug/L	0.0439	18.4	20	
Benzene		50.0	52.9	ug/L	1.04	5.80	20	
Bromodichloromethane		50.0	52.2	ug/L	0.358	4.40	20	
Bromomethane		50.0	45.2	ug/L	0.141	9.70	20	
Carbon Disulfide		50.0	48.8	ug/L	0.802	2.50	20	
Carbon Tetrachloride		50.0	54.5	ug/L	0.406	9.00	20	
Chloroethane		50.0	55.9	ug/L	0.209	11.7	20	
cis-1,2-Dichloroethene		50.0	51.1	ug/L	0.281	2.20	20	
cis-1,3-Dichloropropene		50.0	55.2	ug/L	0.420	10.5	20	
Cyclohexane		50.0	53.0	ug/L	0.525	5.90	30	
Dibromochloromethane		50.0	49.3	ug/L	0.287	1.40	20	
Isopropylbenzene		50.0	54.1	ug/L	1.67	8.20	20	
m-,p-Xylene		100	105	ug/L	0.668	5.10	20	
Methylcyclohexane		50.0	53.7	ug/L	0.441	7.50	30	
Methylene Chloride		50.0	50.4	ug/L	0.254	0.800	20	
Methyl Tert Butyl Ether		50.0	56.0	ug/L	0.534	11.9	20	
n-Butylbenzene		50.0	52.9	ug/L	2.44	5.70	20	
n-Propylbenzene		50.0	50.9	ug/L	3.69	1.90	20	
Naphthalene		50.0	44.3	ug/L	1.13	11.3	20	
o-Xylene		50.0	51.6	ug/L	0.664	3.20	20	
p-Isopropyltoluene		50.0	51.9	ug/L	2.57	3.80	20	
sec-Butylbenzene		50.0	51.8	ug/L	3.20	3.60	20	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4460577
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L15101278 Run Date: 09/30/2015 Sample ID: WG540912-12
Instrument ID: HPMS8 Run Time: 17:27 Method: 8260B
File ID: 8M407761 Analyst: TMB QC Key: DOD4
ICal Workgroup: WG540912 Cal ID: HPMS8 - 30-SEP-15

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Styrene		50.0	52.5	ug/L	1.07	5.10	20	
tert-Butylbenzene		50.0	51.7	ug/L	0.566	3.40	20	
Tetrachloroethene		50.0	50.4	ug/L	0.304	0.700	20	
trans-1,2-Dichloroethene		50.0	51.7	ug/L	0.398	3.30	20	
trans-1,3-Dichloropropene		50.0	49.1	ug/L	0.428	1.80	20	
Trichloroethene		50.0	50.9	ug/L	0.270	1.90	20	
Vinyl Acetate		50.0	83.9	ug/L	0.423	67.8	40	*

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4460577
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L15101278 Run Date: 10/22/2015 Sample ID: WG543912-02

Instrument ID: HPMS17 Run Time: 11:41 Method: 8260B

File ID: 17M015934 Analyst: ADC QC Key: DOD4

Workgroup (AAB#): WG544006 Cal ID: HPMS17 - 12-AUG-15

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	55.2	ug/L	0.411	10.3	20	
1,2-Dichloropropane	CCC	50.0	54.3	ug/L	0.296	8.64	20	
Chloroform	CCC	50.0	48.9	ug/L	0.485	2.29	20	
Ethylbenzene	CCC	50.0	49.8	ug/L	0.575	0.480	20	
Toluene	CCC	50.0	47.5	ug/L	1.62	4.96	20	
Vinyl Chloride	CCC	50.0	55.3	ug/L	0.327	10.7	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	45.0	ug/L	0.600	10.0	20	
1,1-Dichloroethane	SPCC	50.0	54.2	ug/L	0.501	8.41	20	
Bromoform	SPCC	50.0	47.9	ug/L	0.257	4.14	20	
Chlorobenzene	SPCC	50.0	49.8	ug/L	1.07	0.460	20	
Chloromethane	SPCC	50.0	55.1	ug/L	0.281	10.2	20	
Xylenes		150	154	ug/L	0.700	2.75	20	
1,1,1-Trichloroethane		50.0	48.4	ug/L	0.431	3.30	20	
1,1,2-Trichloroethane		50.0	46.2	ug/L	0.280	7.55	20	
1,2,4-Trichlorobenzene		50.0	49.5	ug/L	1.24	0.961	20	
1,2,4-Trimethylbenzene		50.0	50.9	ug/L	2.97	1.86	20	
1,2-Dichloroethane		50.0	49.5	ug/L	0.315	1.05	20	
1,3,5-Trimethylbenzene		50.0	50.2	ug/L	2.95	0.399	20	
2-Butanone		50.0	50.0	ug/L	0.0688	0.0716	20	
2-Hexanone		50.0	46.5	ug/L	0.143	6.99	20	
4-Methyl-2-Pentanone		50.0	44.3	ug/L	0.0558	11.4	20	
Acetone		50.0	48.3	ug/L	0.0408	3.34	20	
Benzene		50.0	50.9	ug/L	1.09	1.70	20	
Bromodichloromethane		50.0	50.3	ug/L	0.371	0.657	20	
Bromomethane		50.0	49.6	ug/L	0.161	0.818	20	
Carbon Disulfide		50.0	34.8	ug/L	0.567	30.5	20	*
Carbon Tetrachloride		50.0	49.9	ug/L	0.399	0.264	20	
Chloroethane		50.0	58.1	ug/L	0.158	16.3	20	
cis-1,2-Dichloroethene		50.0	48.5	ug/L	0.295	3.06	20	
cis-1,3-Dichloropropene		50.0	51.8	ug/L	0.436	3.69	20	
Cyclohexane		50.0	47.1	ug/L	0.400	5.72	40	
Dibromochloromethane		50.0	47.6	ug/L	0.379	4.82	20	
Isopropylbenzene		50.0	50.8	ug/L	1.81	1.65	20	
m-,p-Xylene		100	105	ug/L	0.717	4.61	20	
Methylcyclohexane		50.0	45.6	ug/L	0.439	8.82	40	
Methylene Chloride		50.0	48.9	ug/L	0.275	2.27	20	
Methyl Tert Butyl Ether		50.0	46.6	ug/L	0.606	6.85	20	
n-Butylbenzene		50.0	56.6	ug/L	2.97	13.1	20	
n-Propylbenzene		50.0	52.3	ug/L	3.91	4.64	20	
Naphthalene		50.0	41.8	ug/L	1.98	16.4	20	
o-Xylene		50.0	49.5	ug/L	0.682	0.966	20	
p-Isopropyltoluene		50.0	52.1	ug/L	3.24	4.26	20	

CCV - Modified 03/05/2008

PDF File ID: 4460579

Report generated 10/29/2015 12:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L15101278 Run Date: 10/22/2015 Sample ID: WG543912-02

Instrument ID: HPMS17 Run Time: 11:41 Method: 8260B

File ID: 17M015934 Analyst: ADC QC Key: DOD4

Workgroup (AAB#): WG544006 Cal ID: HPMS17 - 12-AUG-15

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
sec-Butylbenzene		50.0	51.8	ug/L	3.72	3.70	20	
Styrene		50.0	50.9	ug/L	1.13	1.73	20	
tert-Butylbenzene		50.0	47.5	ug/L	0.549	5.06	20	
Tetrachloroethene		50.0	47.0	ug/L	0.442	5.96	20	
trans-1,2-Dichloroethene		50.0	49.2	ug/L	0.263	1.60	20	
trans-1,3-Dichloropropene		50.0	50.7	ug/L	0.364	1.43	20	
Trichloroethene		50.0	48.2	ug/L	0.311	3.58	20	
Vinyl Acetate		50.0	62.5	ug/L	0.0206	25.0	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 4460579
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L15101278 Run Date: 10/23/2015 Sample ID: WG544055-02

Instrument ID: HPMS8 Run Time: 10:40 Method: 8260B

File ID: 8M408227 Analyst: TMB QC Key: DOD4

Workgroup (AAB#): WG544056 Cal ID: HPMS8 - 30-SEP-15

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	57.4	ug/L	0.465	14.8	20	
1,2-Dichloropropane	CCC	50.0	54.8	ug/L	0.291	9.64	20	
Chloroform	CCC	50.0	55.9	ug/L	0.519	11.7	20	
Ethylbenzene	CCC	50.0	52.6	ug/L	0.584	5.28	20	
Toluene	CCC	50.0	54.1	ug/L	1.54	8.25	20	
Vinyl Chloride	CCC	50.0	48.4	ug/L	0.444	3.22	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	49.5	ug/L	0.457	0.951	20	
1,1-Dichloroethane	SPCC	50.0	56.6	ug/L	0.553	13.2	20	
Bromoform	SPCC	50.0	56.6	ug/L	0.198	13.2	20	
Chlorobenzene	SPCC	50.0	52.9	ug/L	1.01	5.75	20	
Chloromethane	SPCC	50.0	50.8	ug/L	0.589	1.57	20	
Xylenes		150	161	ug/L	0.680	7.34	20	
1,1,1-Trichloroethane		50.0	57.1	ug/L	0.476	14.2	20	
1,1,2-Trichloroethane		50.0	52.2	ug/L	0.235	4.33	20	
1,2,4-Trichlorobenzene		50.0	56.8	ug/L	1.00	13.6	20	
1,2,4-Trimethylbenzene		50.0	54.4	ug/L	2.74	8.79	20	
1,2-Dichloroethane		50.0	56.5	ug/L	0.360	12.9	20	
1,3,5-Trimethylbenzene		50.0	53.6	ug/L	2.67	7.15	20	
2-Butanone		50.0	54.0	ug/L	0.0691	8.10	20	
2-Hexanone		50.0	50.0	ug/L	0.0708	0.0910	20	
4-Methyl-2-Pentanone		50.0	52.6	ug/L	0.0590	5.23	20	
Acetone		50.0	59.0	ug/L	0.0438	17.9	20	
Benzene		50.0	57.0	ug/L	1.12	14.1	20	
Bromodichloromethane		50.0	56.3	ug/L	0.385	12.6	20	
Bromomethane		50.0	52.3	ug/L	0.164	4.69	20	
Carbon Disulfide		50.0	44.2	ug/L	0.727	11.5	20	
Carbon Tetrachloride		50.0	58.3	ug/L	0.435	16.7	20	
Chloroethane		50.0	55.1	ug/L	0.206	10.3	20	
cis-1,2-Dichloroethene		50.0	56.4	ug/L	0.310	12.8	20	
cis-1,3-Dichloropropene		50.0	56.1	ug/L	0.427	12.2	20	
Cyclohexane		50.0	49.5	ug/L	0.491	0.990	40	
Dibromochloromethane		50.0	54.1	ug/L	0.315	8.10	20	
Isopropylbenzene		50.0	56.3	ug/L	1.74	12.5	20	
m-,p-Xylene		100	109	ug/L	0.695	9.31	20	
Methylcyclohexane		50.0	50.5	ug/L	0.414	0.987	40	
Methylene Chloride		50.0	54.4	ug/L	0.274	8.72	20	
Methyl Tert Butyl Ether		50.0	55.6	ug/L	0.531	11.2	20	
n-Butylbenzene		50.0	59.8	ug/L	2.76	19.6	20	
n-Propylbenzene		50.0	51.6	ug/L	3.73	3.14	20	
Naphthalene		50.0	57.7	ug/L	1.47	15.4	20	
o-Xylene		50.0	51.7	ug/L	0.665	3.40	20	
p-Isopropyltoluene		50.0	56.1	ug/L	2.77	12.2	20	

CCV - Modified 03/05/2008

PDF File ID: 4460579

Report generated 10/29/2015 12:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L15101278 Run Date: 10/23/2015 Sample ID: WG544055-02
Instrument ID: HPMS8 Run Time: 10:40 Method: 8260B
File ID: 8M408227 Analyst: TMB QC Key: DOD4
Workgroup (AAB#): WG544056 Cal ID: HPMS8 - 30-SEP-15
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
sec-Butylbenzene		50.0	53.4	ug/L	3.30	6.80	20	
Styrene		50.0	55.1	ug/L	1.12	10.3	20	
tert-Butylbenzene		50.0	51.3	ug/L	0.562	2.67	20	
Tetrachloroethene		50.0	54.5	ug/L	0.329	8.93	20	
trans-1,2-Dichloroethene		50.0	57.0	ug/L	0.439	14.0	20	
trans-1,3-Dichloropropene		50.0	53.6	ug/L	0.467	7.15	20	
Trichloroethene		50.0	55.3	ug/L	0.293	10.6	20	
Vinyl Acetate		50.0	57.7	ug/L	0.291	15.5	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 4460579
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L15101278
Instrument ID: HPMS17
Workgroup (AAB#): WG544006

CCV Number: WG543912-02
CAL ID: HPMS17-12-AUG-15
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG543912-02	NA	NA	188866	345072	460512
Upper Limit	NA	NA	377732	690144	921024
Lower Limit	NA	NA	94433	172536	230256
L15101278-01	1.00	01	170482	327603	444517
L15101278-02	1.00	01	173120	331915	449016
L15101278-03	1.00	01	170417	337207	456492
L15101278-04	1.00	01	173473	339157	457100
L15101278-05	1.00	01	181741	355799	481029
L15101278-06	1.00	01	170542	341303	472018
L15101278-07	1.00	01	170388	339843	467854
WG544006-01	1.00	01	161747	320463	436996
WG544006-02	1.00	01	174056	320031	428887
WG544006-03	1.00	01	172114	318508	428940

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: 4461029
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L15101278
Instrument ID: HPMS8
Workgroup (AAB#): WG544056

CCV Number: WG544055-02
CAL ID: HPMS8-30-SEP-15
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG544055-02	NA	NA	316162	551418	721053
Upper Limit	NA	NA	632324	1102836	1442106
Lower Limit	NA	NA	158081	275709	360527
L15101278-08	1.00	01	288723	524832	681539
L15101278-09	1.00	01	296362	525397	673620
L15101278-10	1.00	01	285946	500150	643031
L15101278-11	1.00	01	327529	560885	720855
L15101278-12	1.00	01	336540	585173	759510
L15101278-13	1.00	01	277695	507519	658458
L15101278-14	1.00	01	289433	520769	675010
L15101278-15	1.00	01	286067	521657	677968
WG544056-01	1.00	01	291679	534064	695162
WG544056-02	1.00	01	318730	555297	724346

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: 4461029
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L15101278
Instrument ID: HPMS17
Workgroup (AAB#): WG544006

CCV Number: WG543912-02
CAL ID: HPMS17-12-AUG-15
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG543912-02	NA	NA	9.305	7.976	5.144
Upper Limit	NA	NA	9.805	8.476	5.644
Lower Limit	NA	NA	8.805	7.476	4.644
L15101278-01	1.00	01	9.3	7.98	5.14
L15101278-02	1.00	01	9.3	7.97	5.14
L15101278-03	1.00	01	9.3	7.97	5.14
L15101278-04	1.00	01	9.3	7.97	5.14
L15101278-05	1.00	01	9.3	7.97	5.14
L15101278-06	1.00	01	9.3	7.97	5.14
L15101278-07	1.00	01	9.3	7.97	5.14
WG544006-01	1.00	01	9.3	7.98	5.14
WG544006-02	1.00	01	9.3	7.98	5.14
WG544006-03	1.00	01	9.3	7.98	5.14

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: 4461030
Report generated 10/29/2015 12:43

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L15101278
Instrument ID: HPMS8
Workgroup (AAB#): WG544056

CCV Number: WG544055-02
CAL ID: HPMS8-30-SEP-15
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG544055-02	NA	NA	17.6	14.57	10.71
Upper Limit	NA	NA	18.1	15.07	11.21
Lower Limit	NA	NA	17.1	14.07	10.21
L15101278-08	1.00	01	17.6	14.58	10.72
L15101278-09	1.00	01	17.6	14.58	10.71
L15101278-10	1.00	01	17.6	14.58	10.72
L15101278-11	1.00	01	17.6	14.58	10.72
L15101278-12	1.00	01	17.6	14.57	10.72
L15101278-13	1.00	01	17.6	14.58	10.72
L15101278-14	1.00	01	17.6	14.58	10.72
L15101278-15	1.00	01	17.6	14.58	10.71
WG544056-01	1.00	01	17.6	14.58	10.72
WG544056-02	1.00	01	17.6	14.57	10.71

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: 4461030
Report generated 10/29/2015 12:43

2.1.1.3 Sample Data

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015960.D
Acq On : 22 Oct 2015 20:18
Operator : ADC
Sample : L15101278-01 A 826-SPE
Misc : 1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 25 12:50:10 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

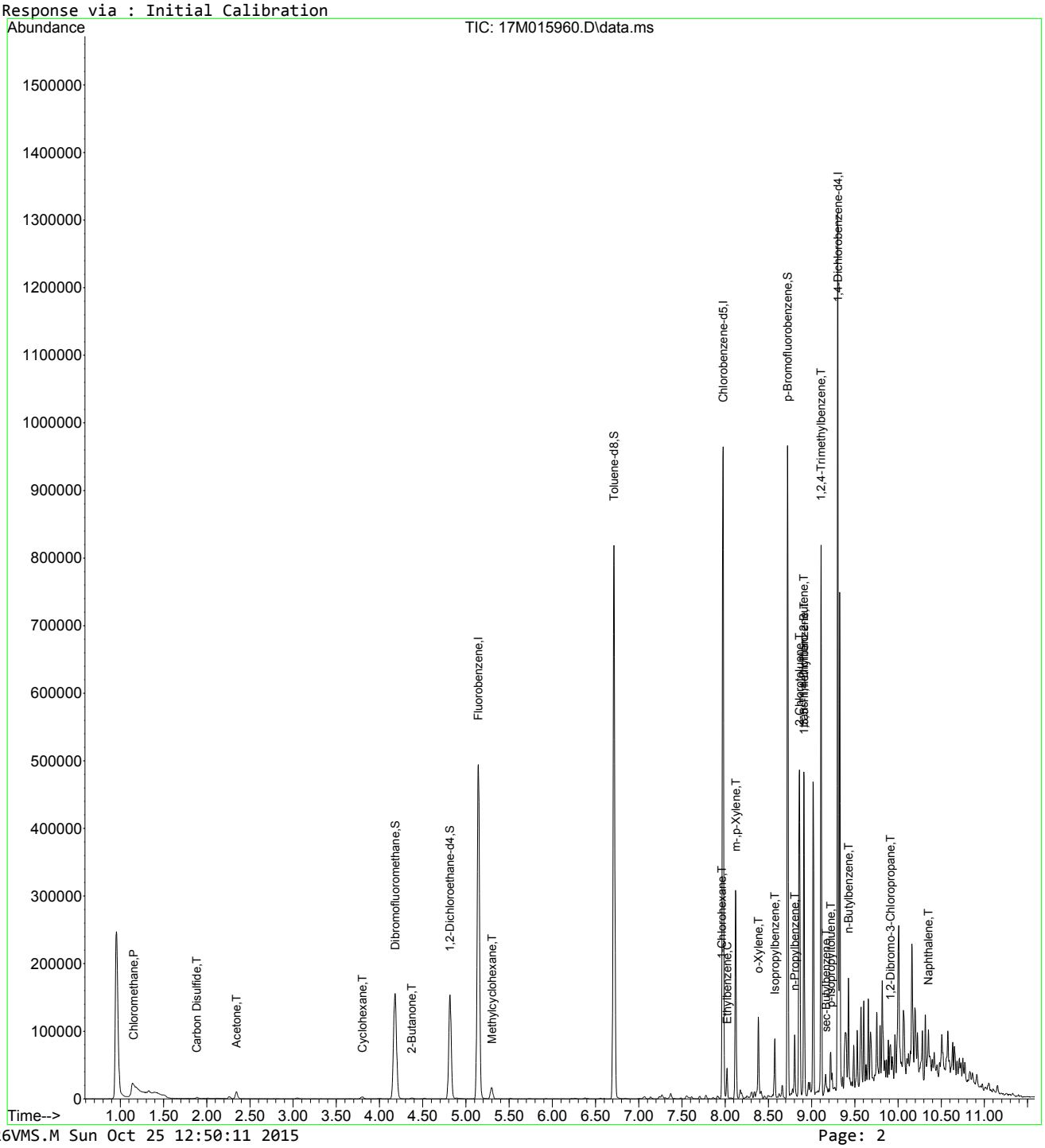
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.144	96	444517	25.00000	ug/L		0.0000
46) Chlorobenzene-d5	7.976	117	327603	25.00000	ug/L		0.0000
64) 1,4-Dichlorobenzene-d4	9.305	152	170482	25.00000	ug/L		0.0000
System Monitoring Compounds							
29) Dibromofluoromethane	4.183	111	121493	26.6583	ug/L		0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 106.633%				
34) 1,2-Dichloroethane-d4	4.814	65	116013	27.9458	ug/L		0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 111.783%				
47) Toluene-d8	6.713	98	443313	26.3862	ug/L		0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 105.545%				
66) p-Bromofluorobenzene	8.723	95	156008	26.4374	ug/L		0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.750%				
Target Compounds							Qvalue
3) Chloromethane	1.151	50	2268	0.5008	ug/L	#	58
11) Carbon Disulfide	1.884	76	2751	0.1896	ug/L	#	91
16) Acetone	2.344	43	13037	17.3800	ug/L		92
25) Cyclohexane	3.803	56	1867	0.2475	ug/L		90
32) 2-Butanone	4.371	43	2177	1.7793	ug/L	#	57
36) Methylcyclohexane	5.303	83	6944	0.8107	ug/L		88
56) 1-Chlorohexane	7.961	69	2075	1.6283	ug/L	#	1
57) Ethylbenzene	8.022	106	5733	0.7579	ug/L		73
59) m-,p-Xylene	8.123	106	50045	5.5727	ug/L		96
60) o-Xylene	8.384	106	16931	1.8756	ug/L		97
63) Isopropylbenzene	8.575	105	29451	1.2629	ug/L		99
65) 1,3,5-Trimethylbenzene	8.914	105	133339	6.6576	ug/L		99
68) n-Propylbenzene	8.804	91	34245	1.3439	ug/L		97
70) 2-Chlorotoluene	8.859	91	24261	1.5173	ug/L	#	41
72) trans-1,4-Dichloro-2-B...	8.911	53	4104	4.9096	ug/L	#	23
73) 1,2,4-Trimethylbenzene	9.111	105	212477	10.6820	ug/L		99
76) sec-Butylbenzene	9.166	105	6912	0.2826	ug/L		92
77) p-Isopropyltoluene	9.221	119	22570	1.0649	ug/L		95
80) n-Butylbenzene	9.426	91	9454	0.5279	ug/L	#	1
82) 1,2-Dibromo-3-Chloropr...	9.913	75	209	0.2600	ug/L	#	1
85) Naphthalene	10.353	128	7676	0.4760	ug/L	#	64

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

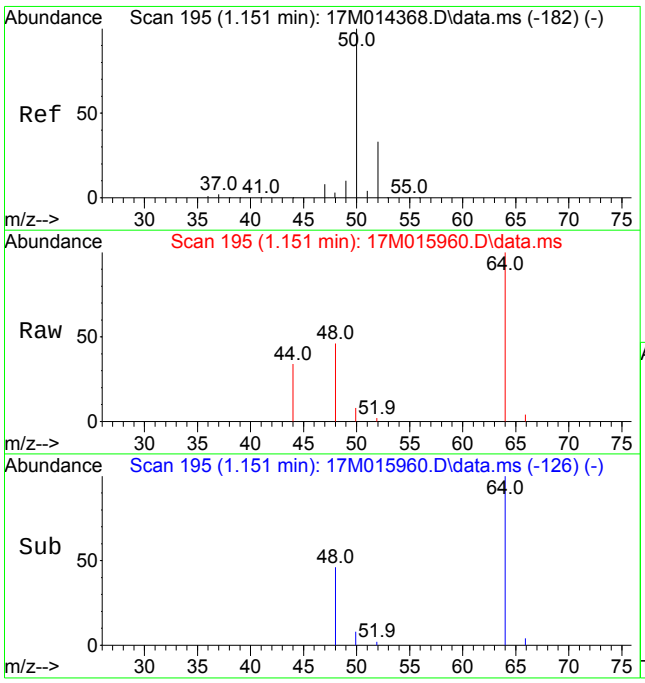
Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015960.D
Acq On : 22 Oct 2015 20:18
Operator : ADC
Sample : L15101278-01 A 826-SPE
Misc : 1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 25 12:50:10 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration



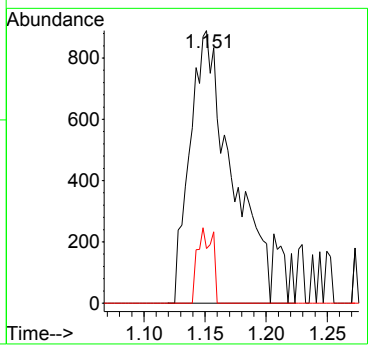
826VMS.M Sun Oct 25 12:50:11 2015 Page: 2

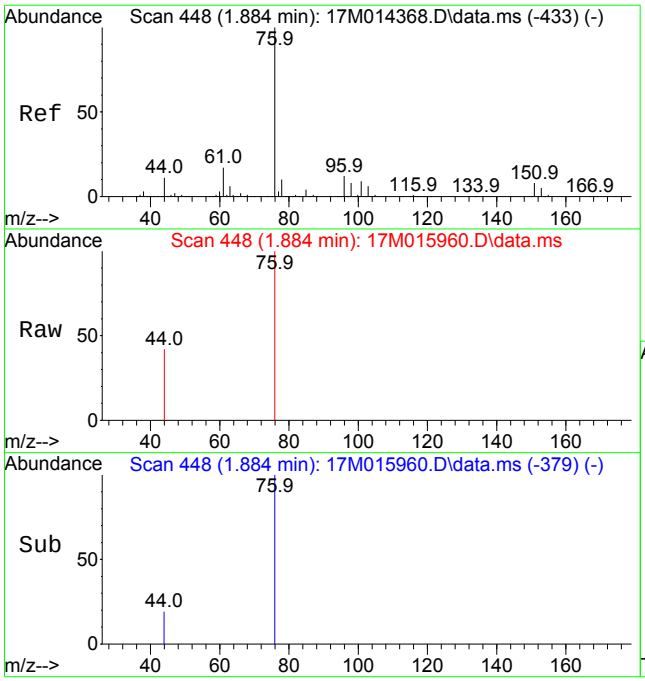


#3
Chloromethane
Concen: 0.5008 ug/L
RT: 1.151 min Scan# 195
Delta R.T. 0.000 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion: 50 Resp: 2268

Ion	Ratio	Lower	Upper
50	100		
52	9.2	19.8	46.2#

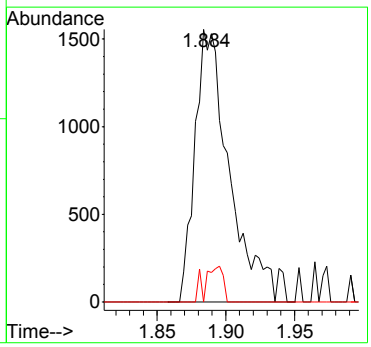


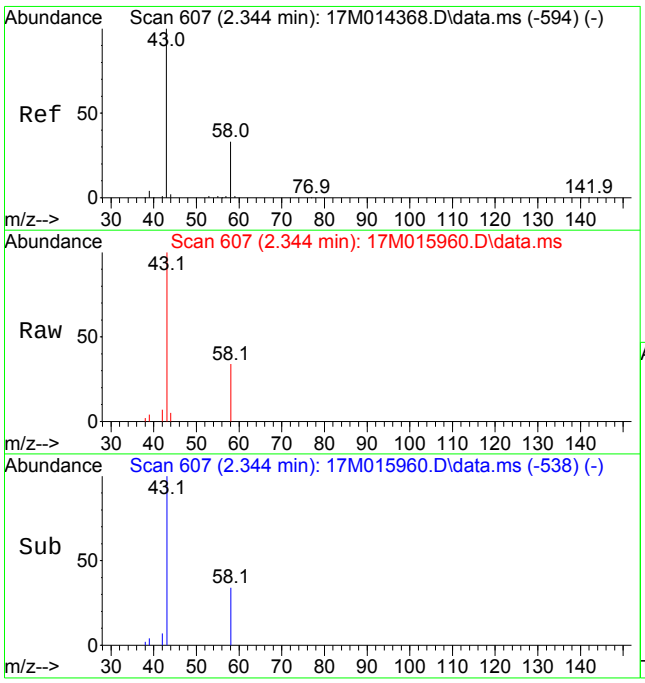


#11
Carbon Disulfide
Concen: 0.1896 ug/L
RT: 1.884 min Scan# 448
Delta R.T. -0.000 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion: 76 Resp: 2751

Ion	Ratio	Lower	Upper
76	100		
78	6.8	8.1	12.1#

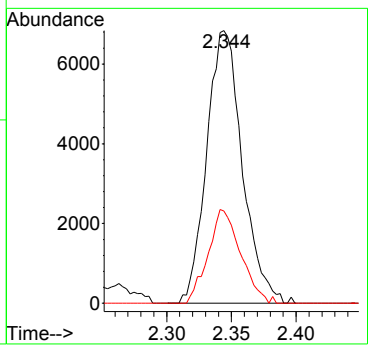


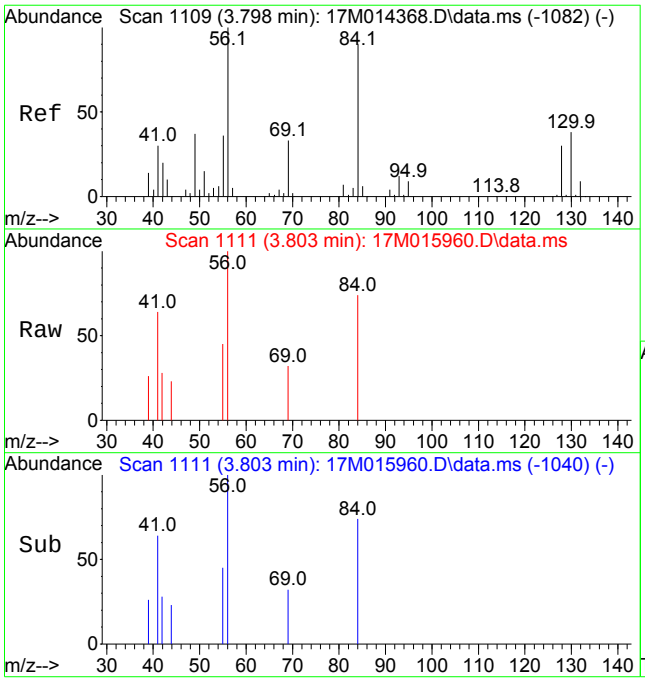


#16
Acetone
Concen: 17.3800 ug/L
RT: 2.344 min Scan# 607
Delta R.T. 0.000 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion: 43 Resp: 13037

Ion	Ratio	Lower	Upper
43	100		
58	31.4	21.7	50.7

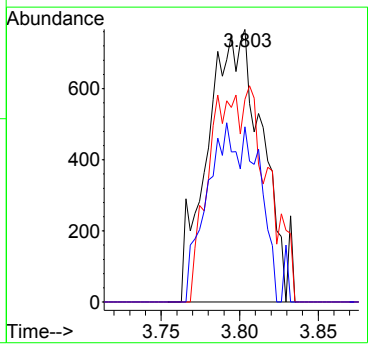


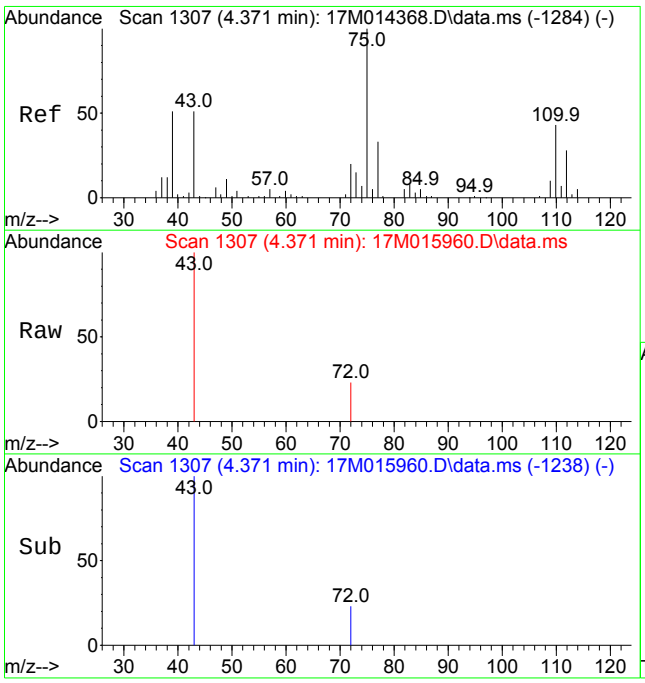


#25
Cyclohexane
Concen: 0.2475 ug/L
RT: 3.803 min Scan# 1111
Delta R.T. 0.005 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion: 56 Resp: 1867

Ion	Ratio	Lower	Upper
56	100		
84	81.8	71.4	107.0
41	61.6	41.2	61.8

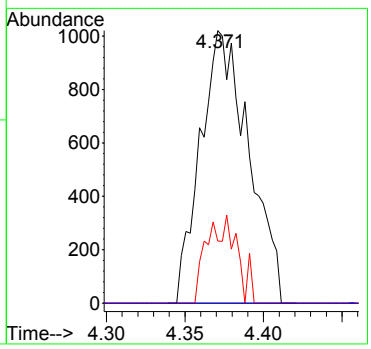


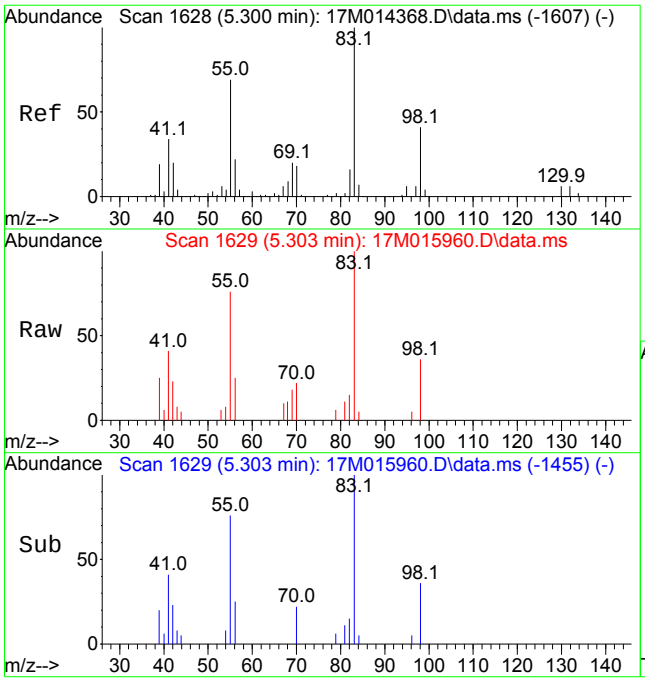


#32
2-Butanone
Concen: 1.7793 ug/L
RT: 4.371 min Scan# 1307
Delta R.T. -0.000 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion: 43 Resp: 2177

Ion	Ratio	Lower	Upper
43	100		
72	20.0	42.5	63.7#
57	0.0	8.2	12.2#

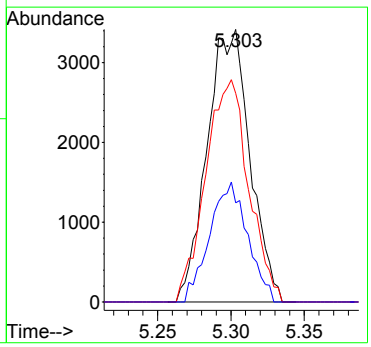


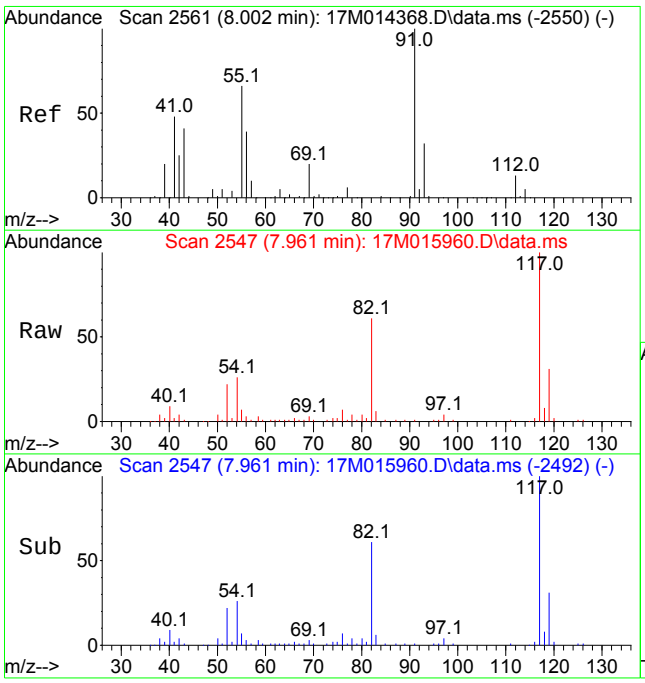


#36
Methylcyclohexane
Concen: 0.8107 ug/L
RT: 5.303 min Scan# 1629
Delta R.T. 0.003 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion: 83 Resp: 6944

Ion	Ratio	Lower	Upper
83	100		
55	82.0	55.8	83.8
98	38.8	34.2	51.2

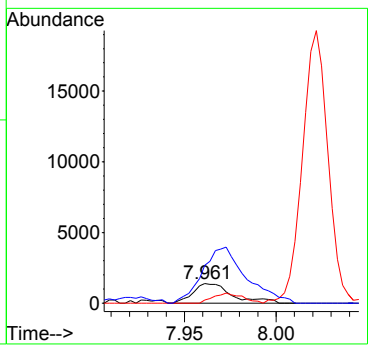


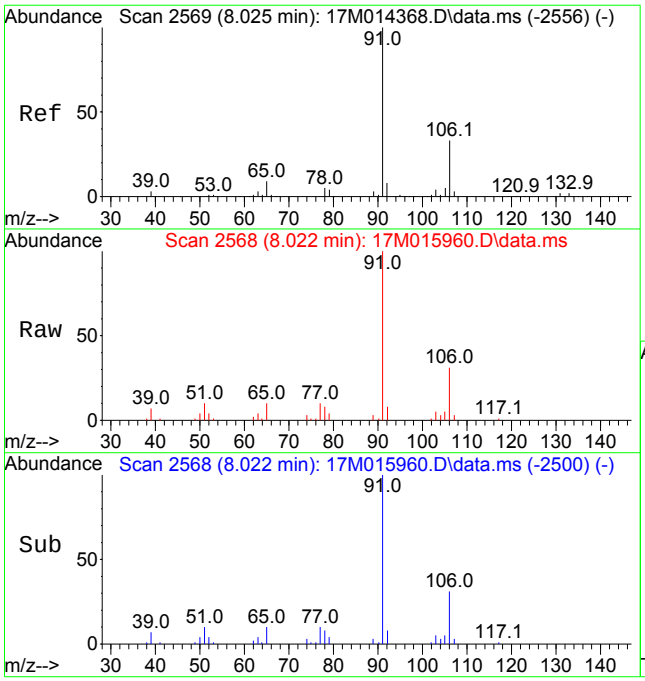


#56
1-Chlorohexane
Concen: 1.6283 ug/L
RT: 7.961 min Scan# 2547
Delta R.T. -0.041 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion: 69 Resp: 2075

Ion	Ratio	Lower	Upper
69	100		
91	38.5	1863.4	2795.0#
55	316.6	275.6	413.4

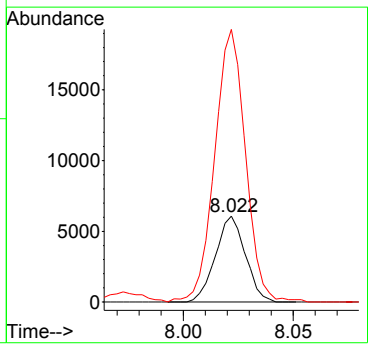


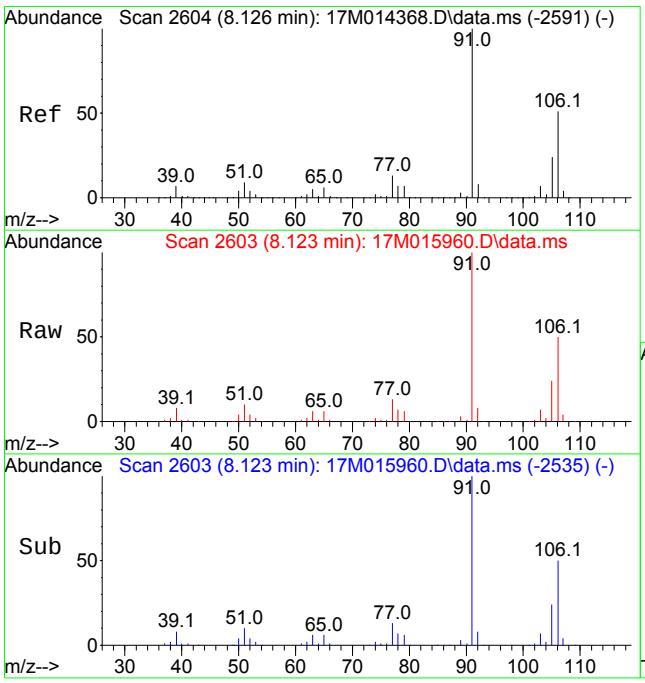


#57
Ethylbenzene
Concen: 0.7579 ug/L
RT: 8.022 min Scan# 2568
Delta R.T. -0.003 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion:106 Resp: 5733

Ion	Ratio	Lower	Upper
106	100		
91	327.7	311.7	467.5

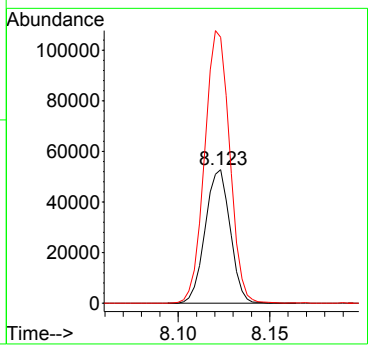


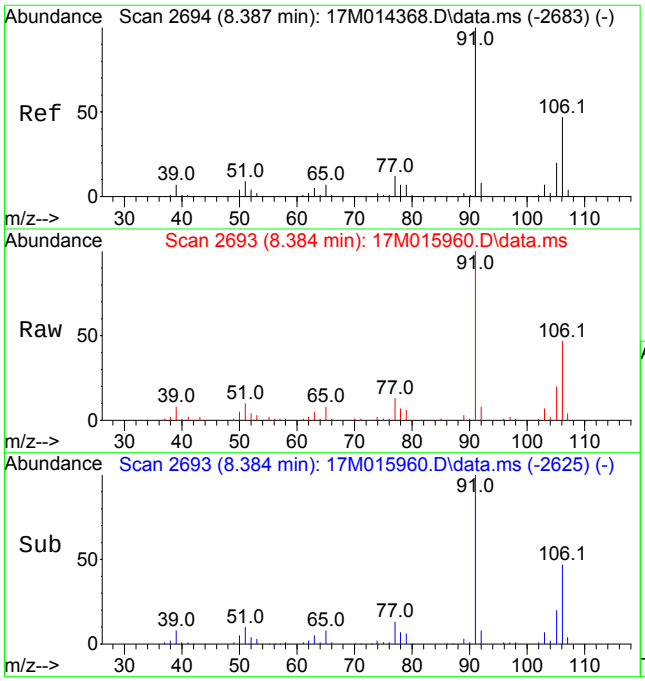


#59
m-,p-Xylene
Concen: 5.5727 ug/L
RT: 8.123 min Scan# 2603
Delta R.T. -0.003 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion:106 Resp: 50045

Ion	Ratio	Lower	Upper
106	100		
91	204.9	119.0	277.6

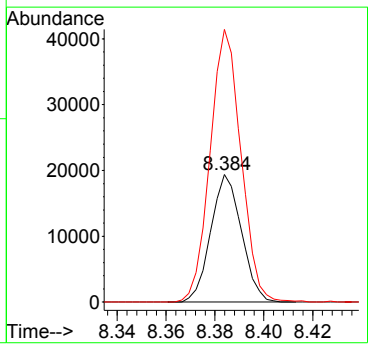


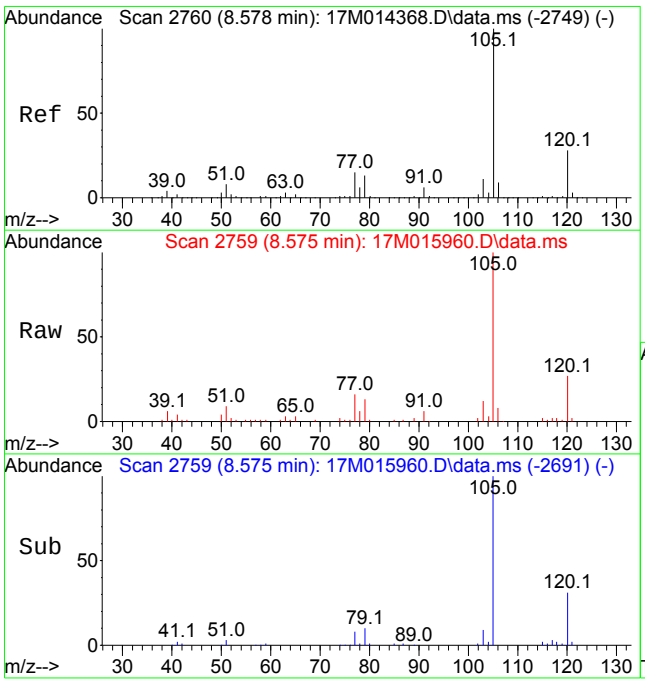


#60
o-Xylene
Concen: 1.8756 ug/L
RT: 8.384 min Scan# 2693
Delta R.T. -0.003 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion:106 Resp: 16931

Ion	Ratio	Lower	Upper
106	100		
91	215.2	126.2	294.4

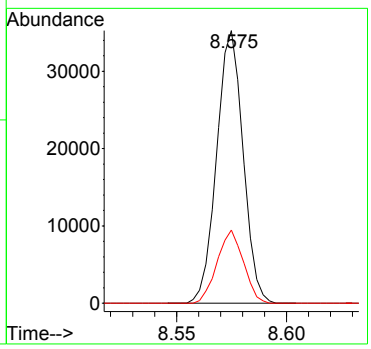


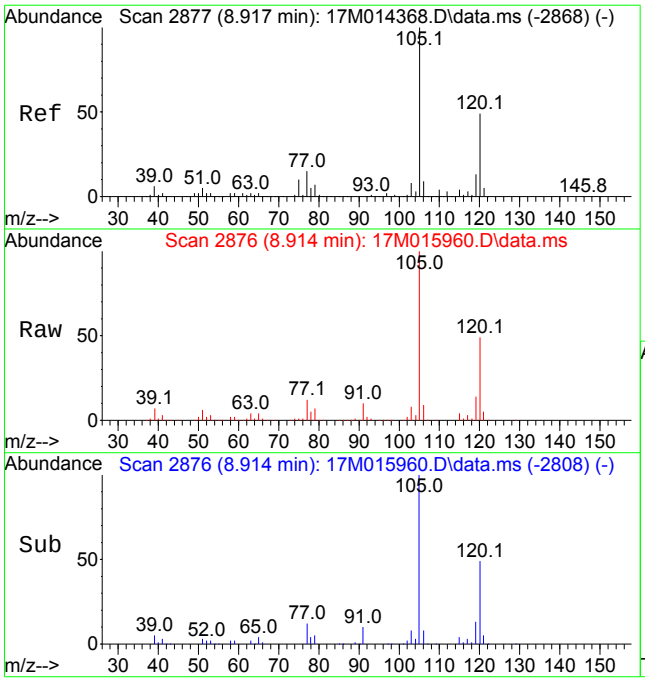


#63
Isopropylbenzene
Concen: 1.2629 ug/L
RT: 8.575 min Scan# 2759
Delta R.T. -0.003 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion:105 Resp: 29451

Ion	Ratio	Lower	Upper
105	100		
120	26.7	16.4	38.4

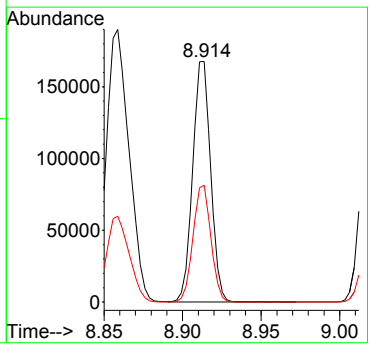


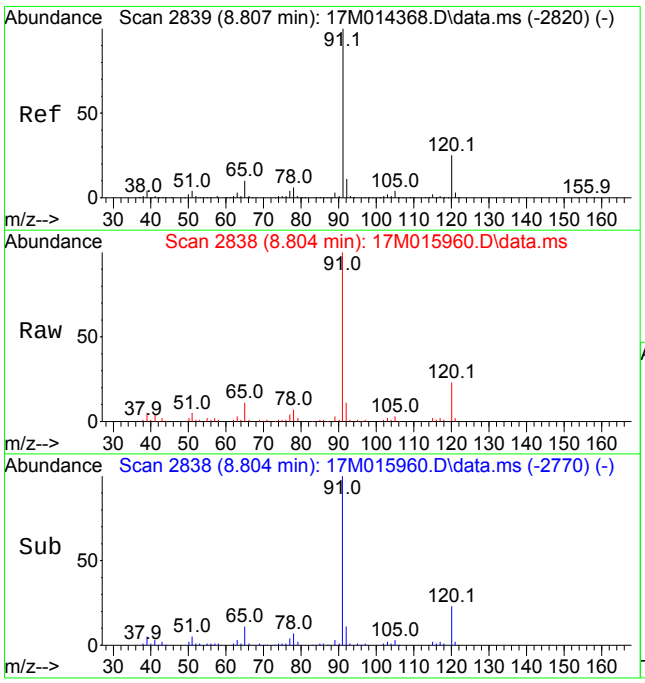


#65
1,3,5-Trimethylbenzene
Concen: 6.6576 ug/L
RT: 8.914 min Scan# 2876
Delta R.T. -0.003 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion:105 Resp: 133339

Ion	Ratio	Lower	Upper
105	100		
120	48.2	39.2	58.8

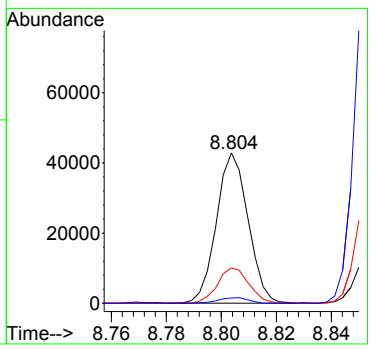


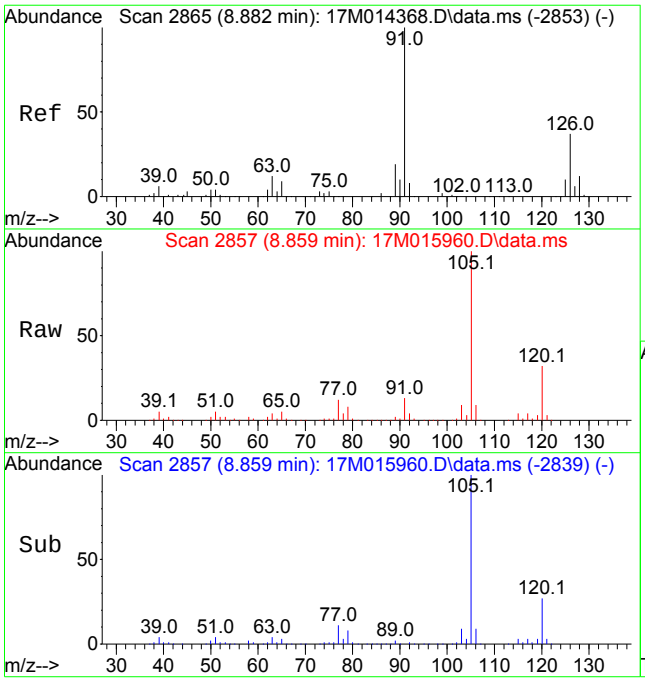


#68
n-Propylbenzene
Concen: 1.3439 ug/L
RT: 8.804 min Scan# 2838
Delta R.T. -0.003 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion: 91 Resp: 34245

Ion	Ratio	Lower	Upper
91	100		
120	23.2	15.0	35.0
105	3.5	2.3	5.3

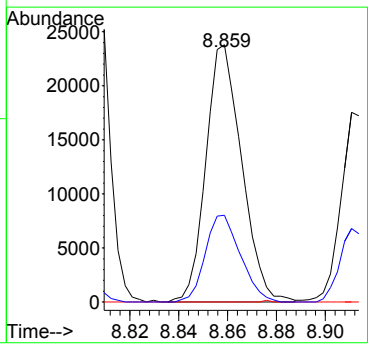


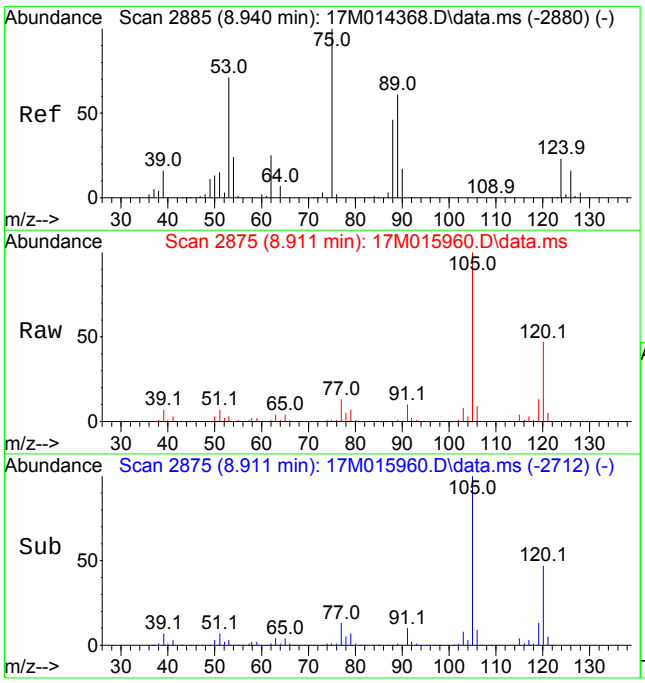


#70
2-Chlorotoluene
Concen: 1.5173 ug/L
RT: 8.859 min Scan# 2857
Delta R.T. -0.023 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion: 91 Resp: 24261

Ion	Ratio	Lower	Upper
91	100		
126	0.0	22.4	52.2#
63	33.1	7.7	18.1#

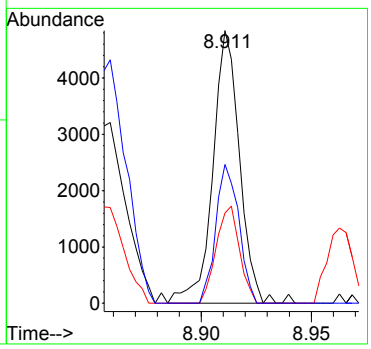


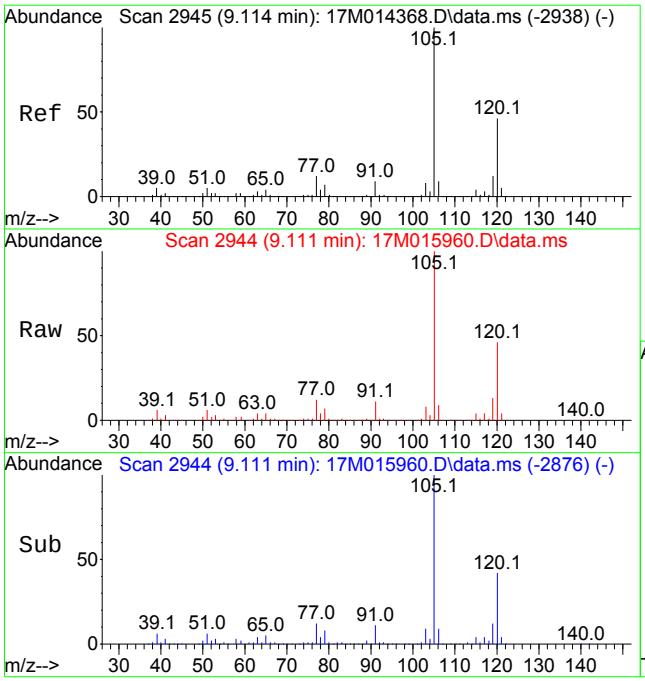


#72
trans-1,4-Dichloro-2-Butene
Concen: 4.9096 ug/L
RT: 8.911 min Scan# 2875
Delta R.T. -0.029 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion: 53 Resp: 4104

Ion	Ratio	Lower	Upper
53	100		
75	31.1	151.4	151.4#
89	43.9	70.1	105.1#

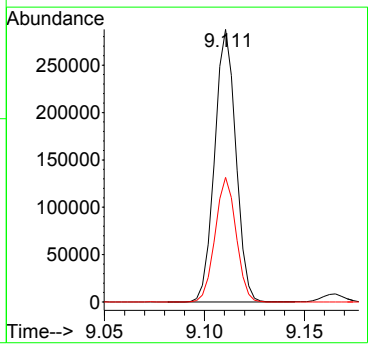


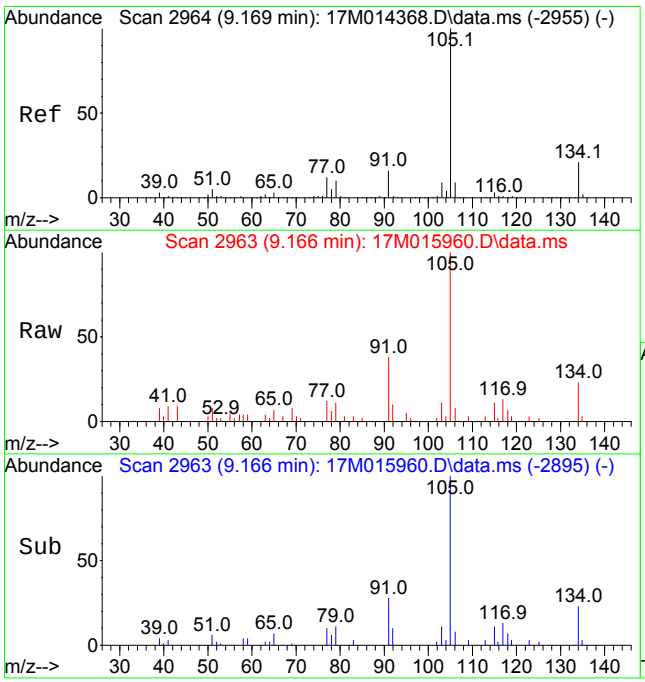


#73
1,2,4-Trimethylbenzene
Concen: 10.6820 ug/L
RT: 9.111 min Scan# 2944
Delta R.T. -0.003 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion:105 Resp: 212477

Ion	Ratio	Lower	Upper
105	100		
120	45.1	36.6	55.0

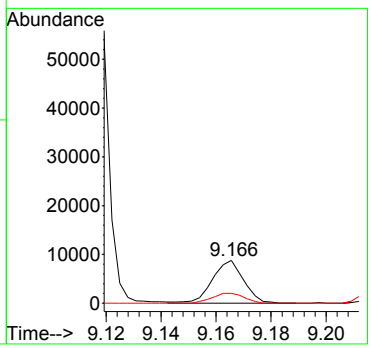


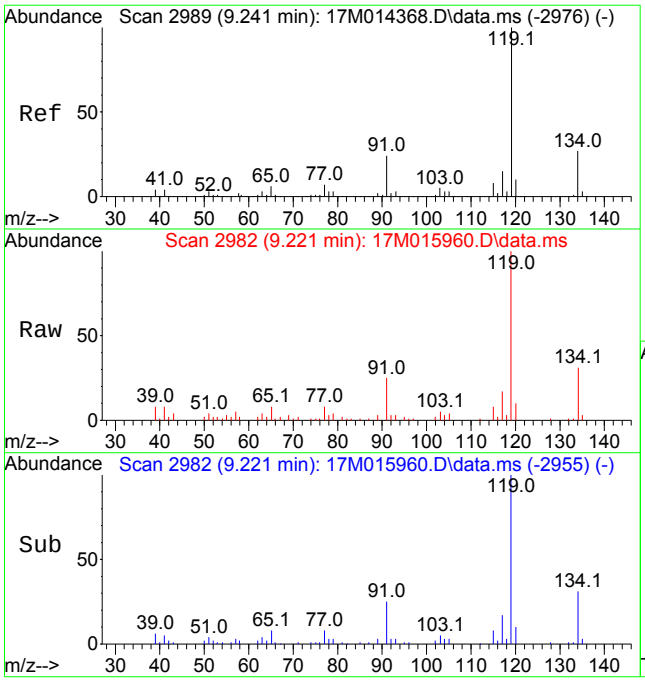


#76
sec-Butylbenzene
Concen: 0.2826 ug/L
RT: 9.166 min Scan# 2963
Delta R.T. -0.003 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion:105 Resp: 6912

Ion	Ratio	Lower	Upper
105	100		
134	24.1	12.3	28.7

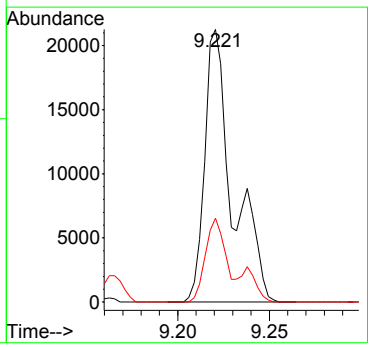


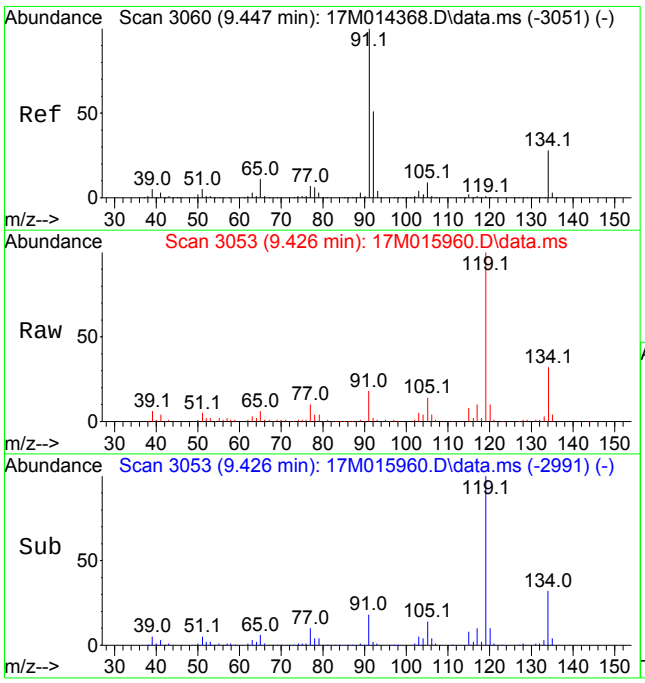


#77
p-Isopropyltoluene
Concen: 1.0649 ug/L
RT: 9.221 min Scan# 2982
Delta R.T. -0.020 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion:119 Resp: 22570

Ion	Ratio	Lower	Upper
119	100		
134	29.6	16.2	37.8

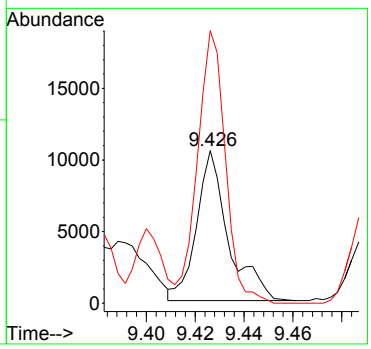


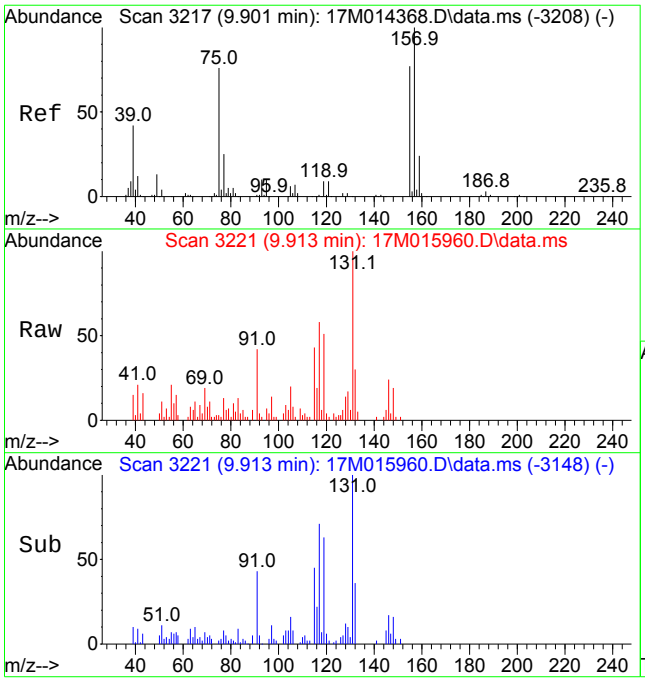


#80
n-Butylbenzene
Concen: 0.5279 ug/L
RT: 9.426 min Scan# 3053
Delta R.T. -0.021 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion: 91 Resp: 9454

Ion	Ratio	Lower	Upper
91	100		
134	161.8	16.8	39.2#

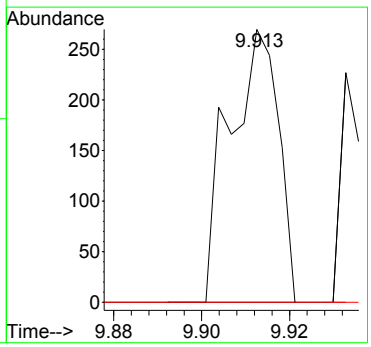


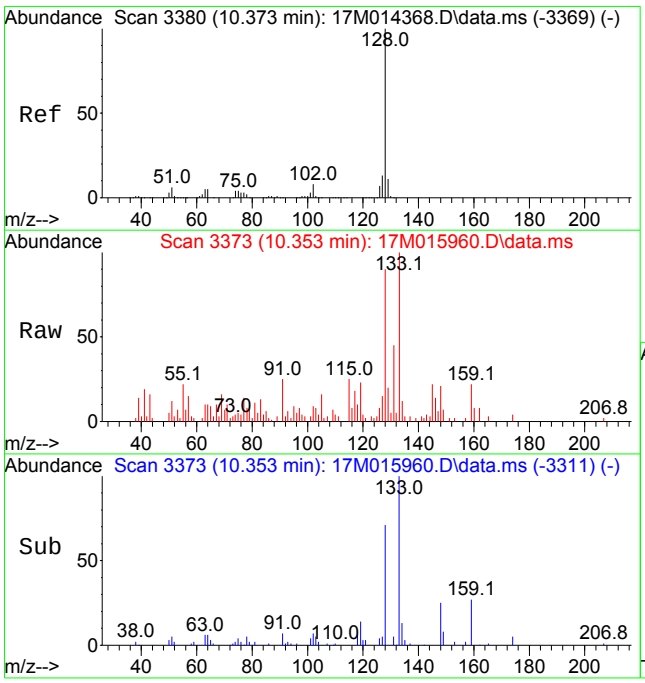


#82
1,2-Dibromo-3-Chloropropane
Concen: 0.2600 ug/L
RT: 9.913 min Scan# 3221
Delta R.T. 0.012 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

Tgt Ion: 75 Resp: 209

Ion	Ratio	Lower	Upper
75	100		
157	0.0	77.0	179.6#

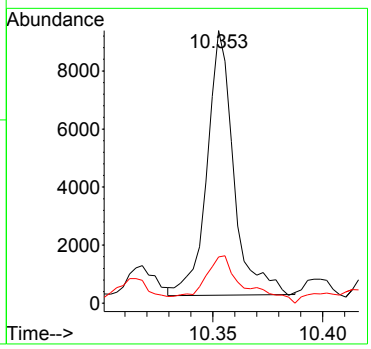




#85
Naphthalene
Concen: 0.4760 ug/L
RT: 10.353 min Scan# 3373
Delta R.T. -0.020 min
Lab File: 17M015960.D
Acq: 22 Oct 2015 20:18

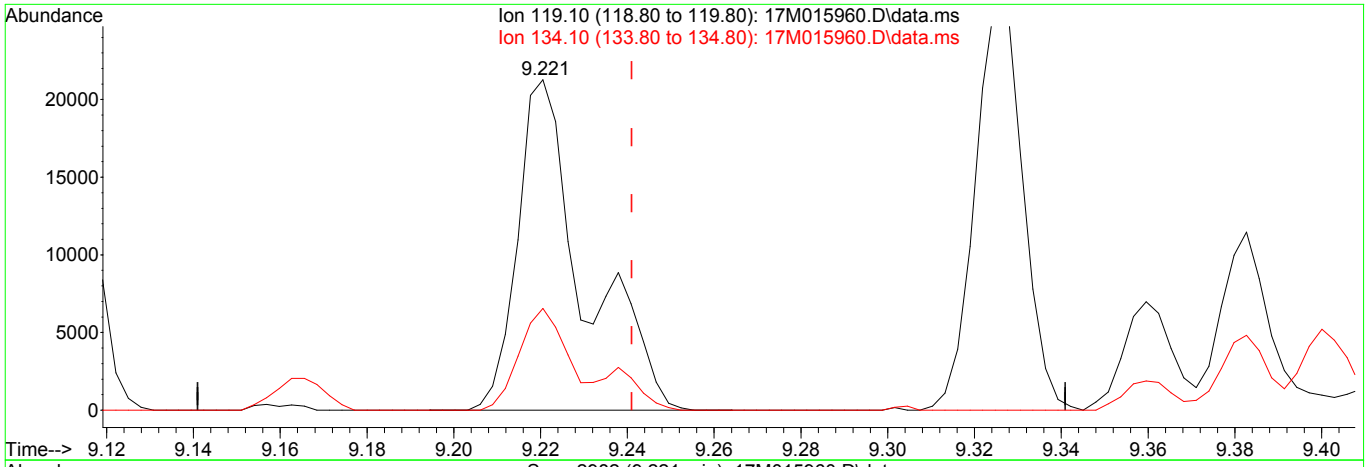
Tgt Ion:128 Resp: 7676

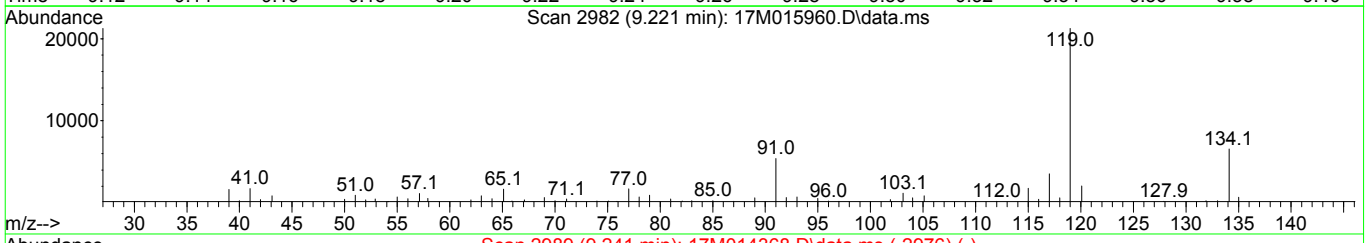
Ion	Ratio	Lower	Upper
128	100		
127	27.3	7.9	18.3#

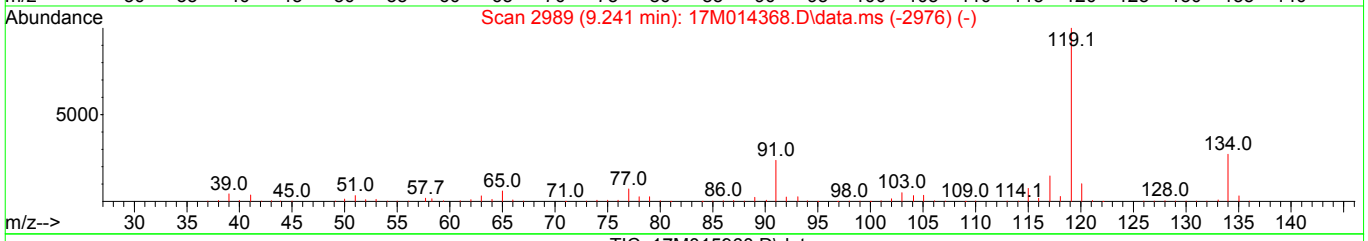


Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015960.D
Acq On : 22 Oct 2015 20:18
Operator : ADC
Sample : L15101278-01 A 826-SPE
Misc : 1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 25 12:50:10 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015960.D\data.ms

(77) p-Isopropyltoluene (T)

9.221min (-0.020) 1.06 ug/L

response 22570

Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.00	29.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015961.D
Acq On : 22 Oct 2015 20:38
Operator : ADC
Sample : L15101278-02 A 826-SPE
Misc : 1,1
ALS Vial : 28 Sample Multiplier: 1

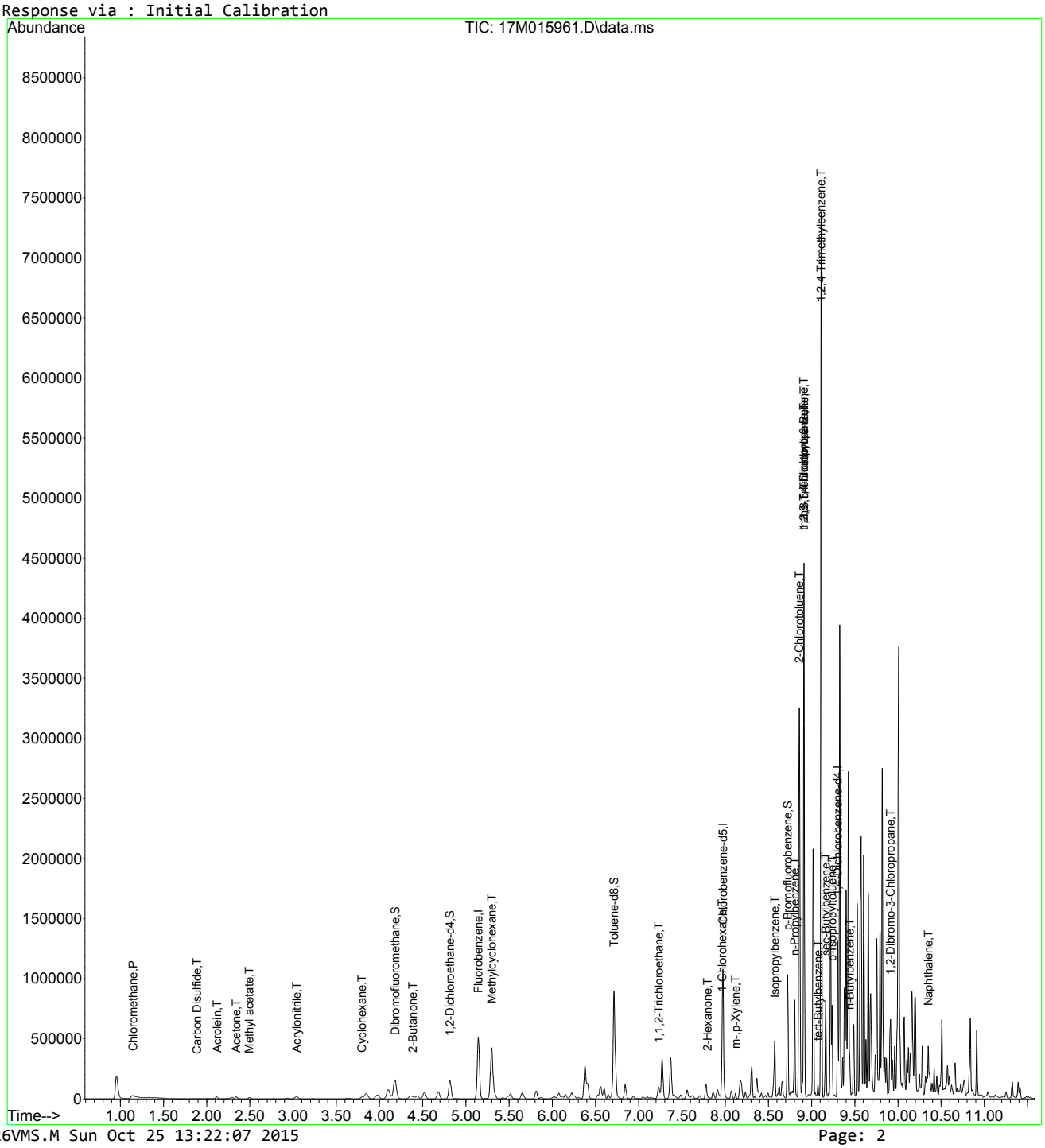
Quant Time: Oct 25 12:50:15 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

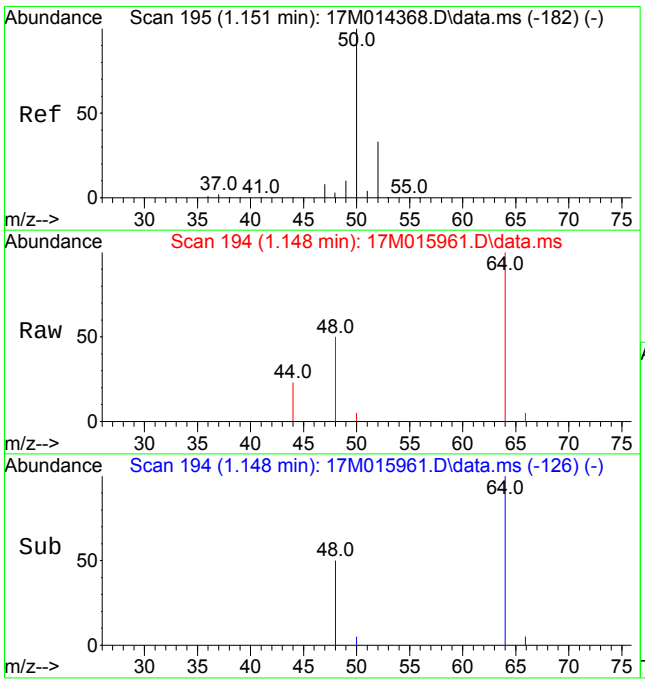
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	449016	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.973	117	331915	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.302	152	173120	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.180	111	121404	26.3719	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 105.488%			
34) 1,2-Dichloroethane-d4	4.814	65	115820	27.6198	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 110.479%			
47) Toluene-d8	6.713	98	461073	27.0867	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 108.347%			
66) p-Bromofluorobenzene	8.723	95	163464	27.2788	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 109.115%			
Target Compounds						Qvalue
3) Chloromethane	1.148	50	1806	0.3948	ug/L #	42
11) Carbon Disulfide	1.887	76	1826	0.1246	ug/L #	73
14) Acrolein	2.121	56	537	1.0043	ug/L #	2
16) Acetone	2.341	43	21057	27.7905	ug/L	92
18) Methyl acetate	2.492	43	3692	1.3148	ug/L #	56
21) Acrylonitrile	3.042	53	601	0.5755	ug/L #	8
25) Cyclohexane	3.795	56	7478	0.9812	ug/L #	45
32) 2-Butanone	4.385	43	16195	13.1042	ug/L #	45
36) Methylcyclohexane	5.297	83	184860	21.3662	ug/L	89
50) 1,1,2-Trichloroethane	7.232	97	13973	3.4810	ug/L #	62
54) 2-Hexanone	7.796	43	1808	0.8886	ug/L #	23
56) 1-Chlorohexane	7.964	69	33028	25.5810	ug/L #	1
59) m-,p-Xylene	8.120	106	7080	0.7781	ug/L	95
63) Isopropylbenzene	8.575	105	154816	6.5526	ug/L	98
65) 1,3,5-Trimethylbenzene	8.914	105	1214750	59.7285	ug/L	100
68) n-Propylbenzene	8.804	91	311009	12.0188	ug/L	97
70) 2-Chlorotoluene	8.856	91	149618	9.2144	ug/L #	40
71) 1,2,3-Trichloropropane	8.911	110	976	0.7653	ug/L #	1
72) trans-1,4-Dichloro-2-B...	8.911	53	34513	40.6585	ug/L #	26
73) 1,2,4-Trimethylbenzene	9.111	105	1905168	94.3206	ug/L	100
75) tert-Butylbenzene	9.076	134	5112	1.2774	ug/L	99
76) sec-Butylbenzene	9.163	105	191705	7.7191	ug/L #	79
77) p-Isopropyltoluene	9.238	119	194909m	9.0557	ug/L	
80) n-Butylbenzene	9.441	91	77466m	4.2596	ug/L	
82) 1,2-Dibromo-3-Chloropr...	9.913	75	2554	3.1287	ug/L #	1
85) Naphthalene	10.353	128	26386	1.6112	ug/L #	80

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

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015961.D
Acq On : 22 Oct 2015 20:38
Operator : ADC
Sample : L15101278-02 A 826-SPE
Misc : 1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 25 12:50:15 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

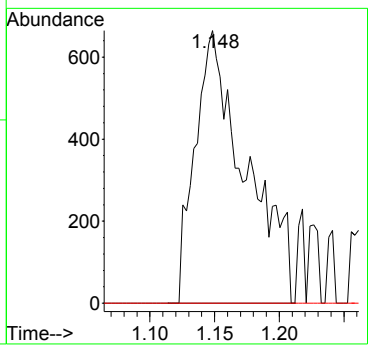


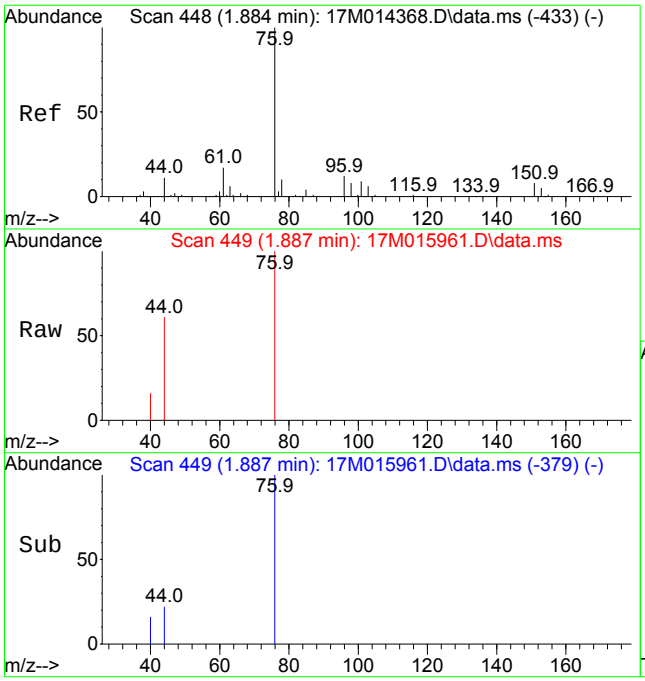


#3
Chloromethane
Concen: 0.3948 ug/L
RT: 1.148 min Scan# 194
Delta R.T. -0.003 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 50 Resp: 1806

Ion	Ratio	Lower	Upper
50	100		
52	0.0	19.8	46.2#

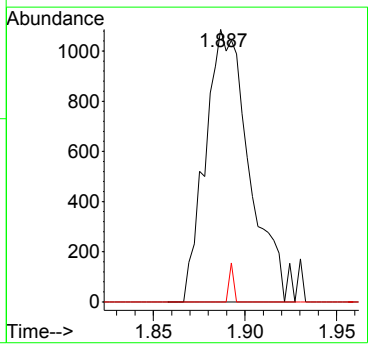


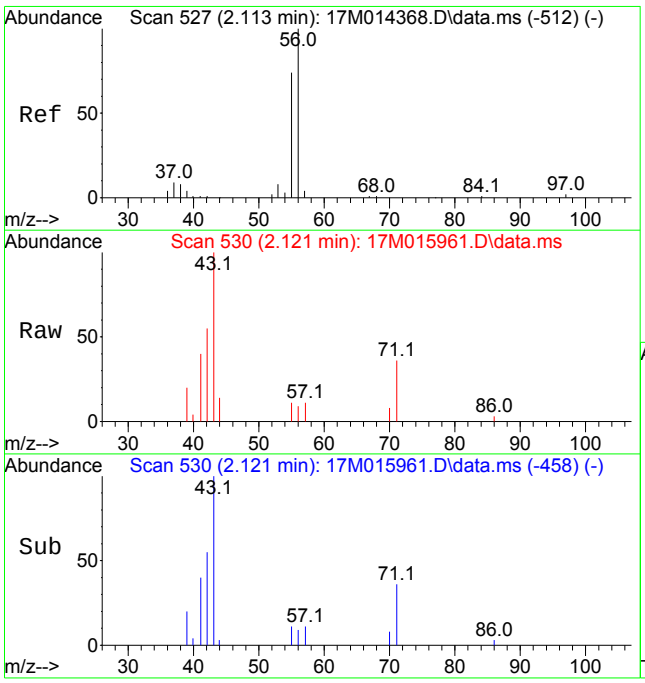


#11
Carbon Disulfide
Concen: 0.1246 ug/L
RT: 1.887 min Scan# 449
Delta R.T. 0.003 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 76 Resp: 1826

Ion	Ratio	Lower	Upper
76	100		
78	0.0	8.1	12.1#

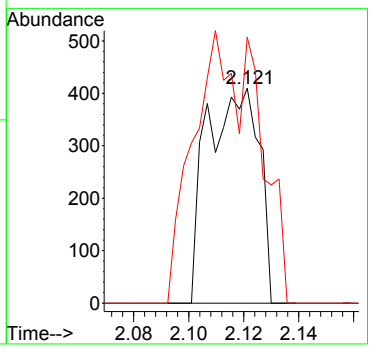


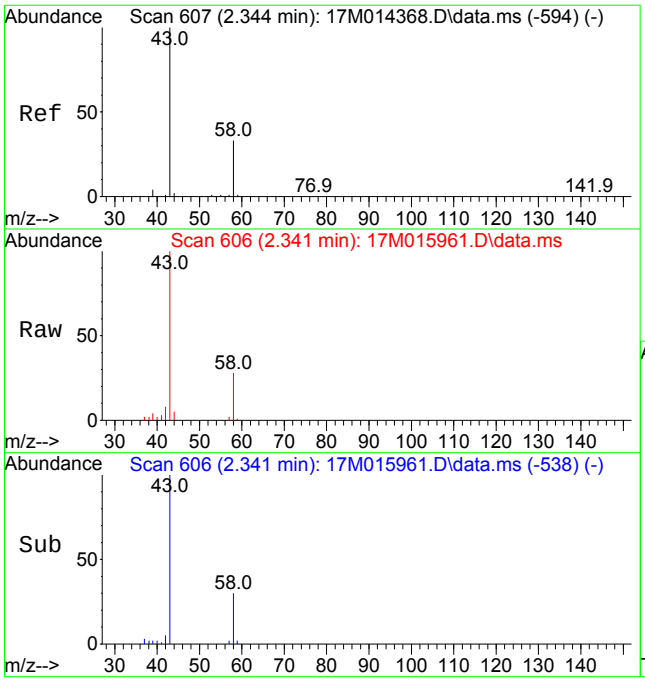


#14
Acrolein
Concen: 1.0043 ug/L
RT: 2.121 min Scan# 530
Delta R.T. 0.008 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 56 Resp: 537

Ion	Ratio	Lower	Upper
56	100		
55	156.8	44.5	103.7#

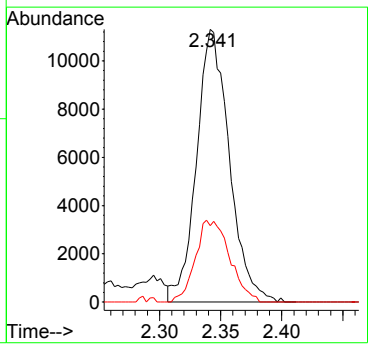


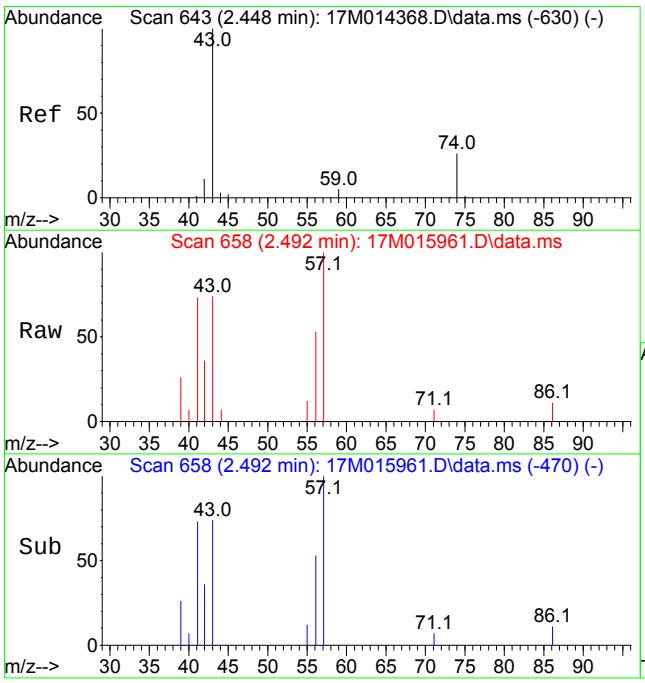


#16
Acetone
Concen: 27.7905 ug/L
RT: 2.341 min Scan# 606
Delta R.T. -0.003 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 43 Resp: 21057

Ion	Ratio	Lower	Upper
43	100		
58	31.3	21.7	50.7

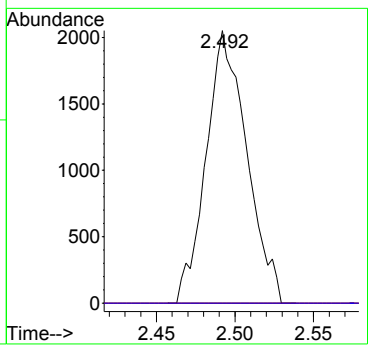


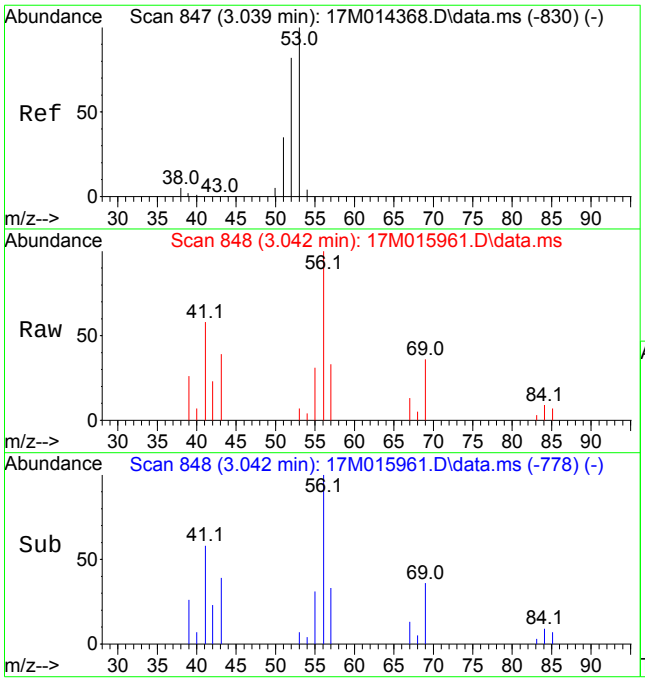


#18
Methyl acetate
Concen: 1.3148 ug/L
RT: 2.492 min Scan# 658
Delta R.T. 0.044 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 43 Resp: 3692

Ion	Ratio	Lower	Upper
43	100		
74	0.0	25.6	25.6#
59	0.0	6.2	9.4#

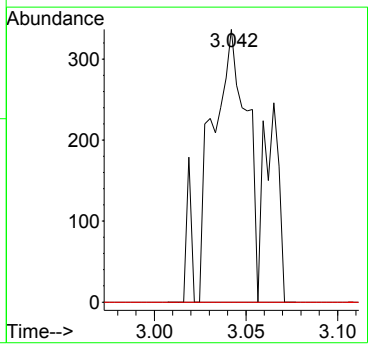


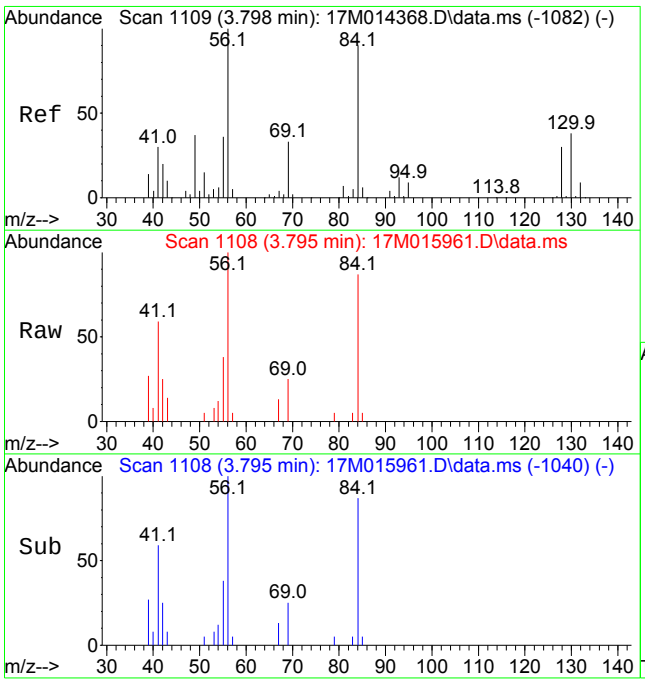


#21
Acrylonitrile
Concen: 0.5755 ug/L
RT: 3.042 min Scan# 848
Delta R.T. 0.003 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 53 Resp: 601

Ion	Ratio	Lower	Upper
53	100		
52	0.0	50.2	117.0#

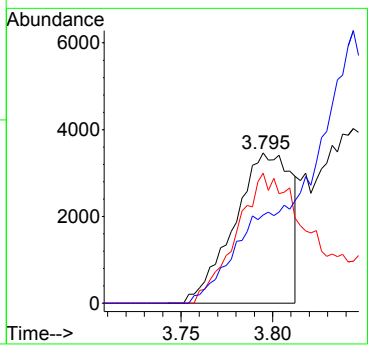


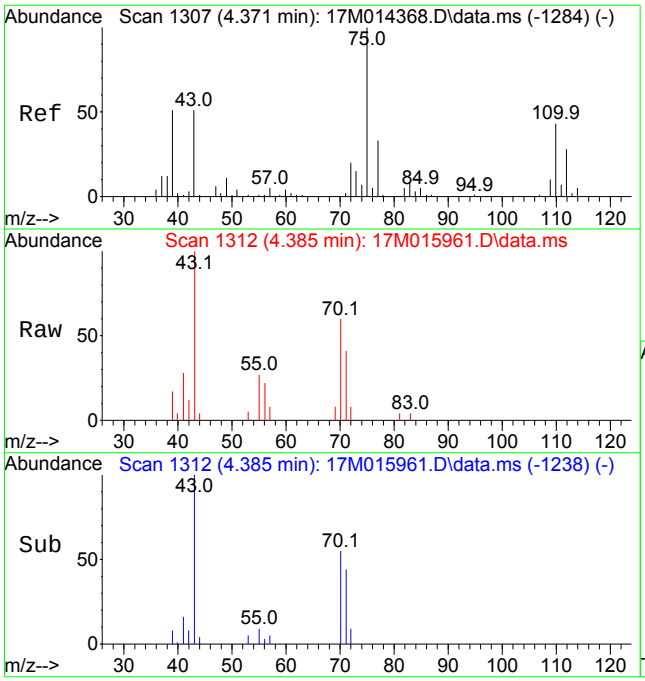


#25
Cyclohexane
Concen: 0.9812 ug/L
RT: 3.795 min Scan# 1108
Delta R.T. -0.003 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 56 Resp: 7478

Ion	Ratio	Lower	Upper
56	100		
84	130.6	71.4	107.0#
41	0.0	41.2	61.8#

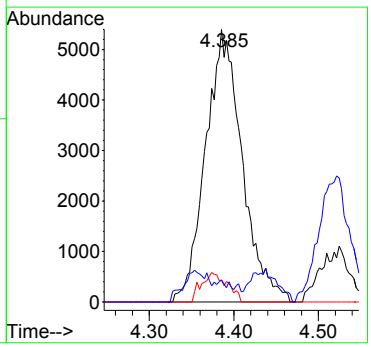


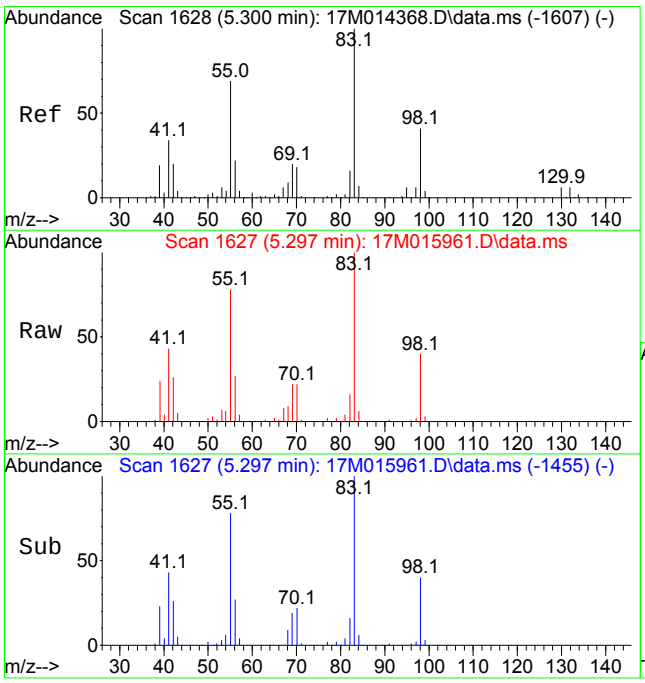


#32
2-Butanone
Concen: 13.1042 ug/L
RT: 4.385 min Scan# 1312
Delta R.T. 0.014 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 43 Resp: 16195

Ion	Ratio	Lower	Upper
43	100		
72	7.6	42.5	63.7#
57	8.5	8.2	12.2

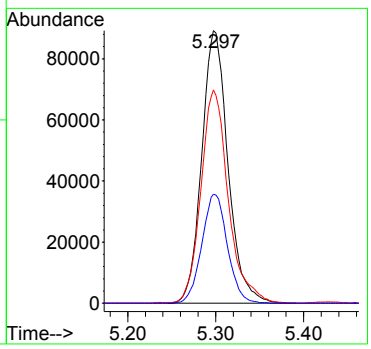


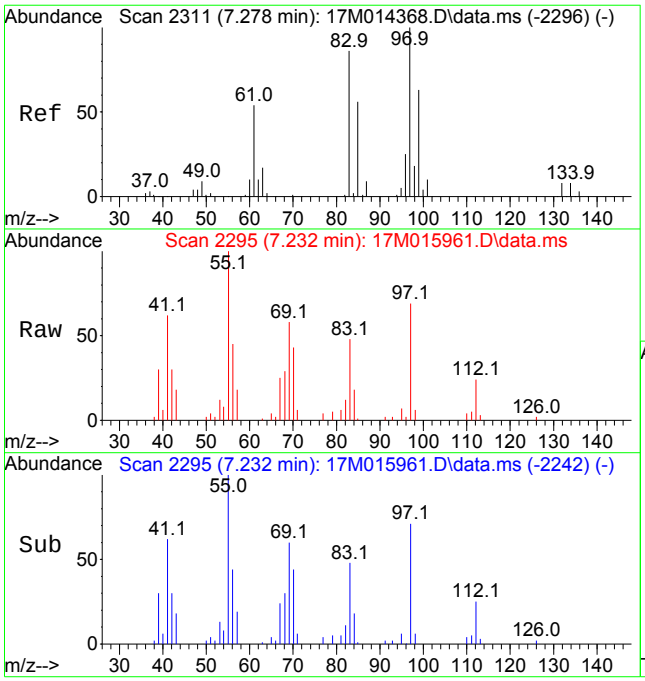


#36
Methylcyclohexane
Concen: 21.3662 ug/L
RT: 5.297 min Scan# 1627
Delta R.T. -0.003 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 83 Resp: 184860

Ion	Ratio	Lower	Upper
83	100		
55	81.9	55.8	83.8
98	39.0	34.2	51.2

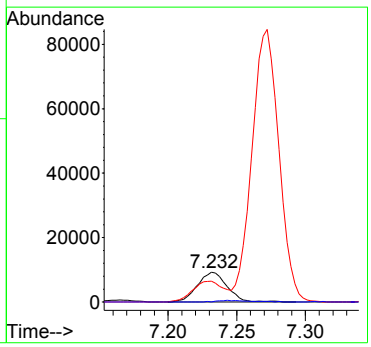


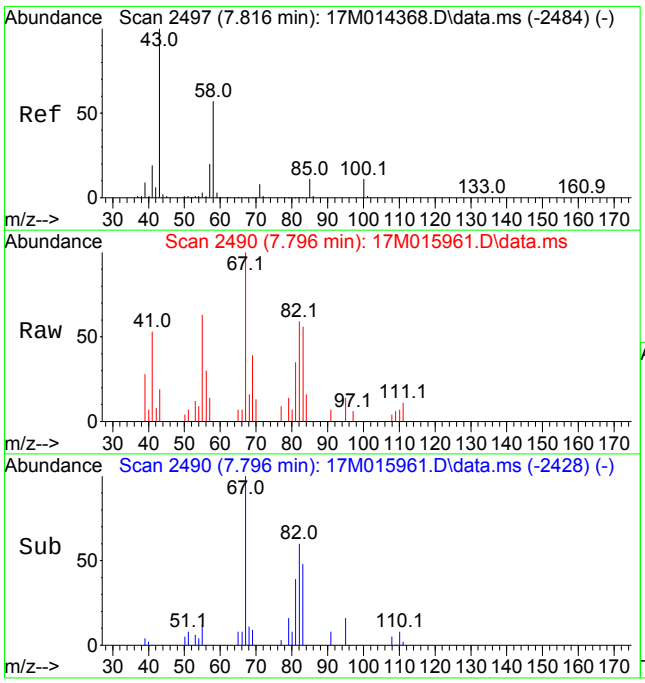


#50
1,1,2-Trichloroethane
Concen: 3.4810 ug/L
RT: 7.232 min Scan# 2295
Delta R.T. -0.046 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 97 Resp: 13973

Ion	Ratio	Lower	Upper
97	100		
83	74.9	51.8	120.8
99	6.0	37.9	88.3#

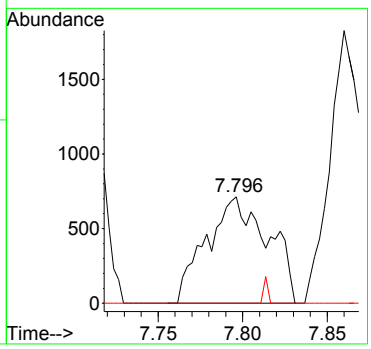


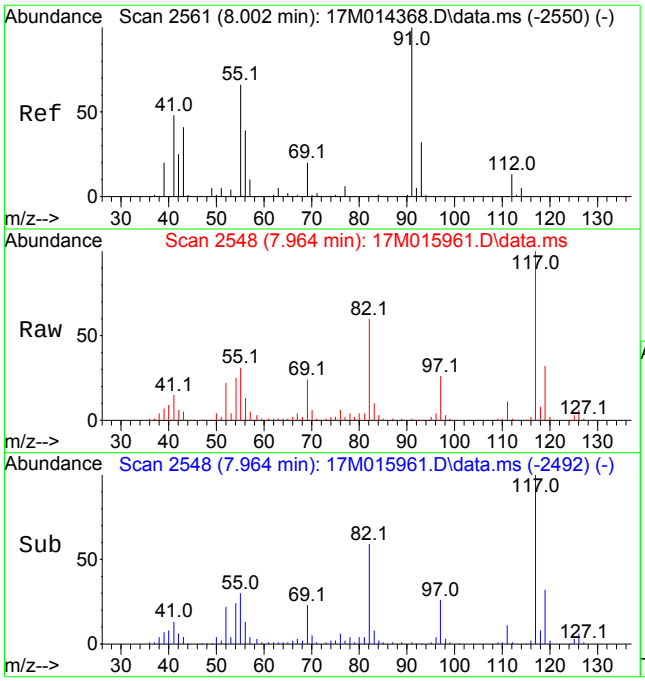


#54
2-Hexanone
Concen: 0.8886 ug/L
RT: 7.796 min Scan# 2490
Delta R.T. -0.020 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 43 Resp: 1808

Ion	Ratio	Lower	Upper
43	100		
58	0.0	44.8	67.2#

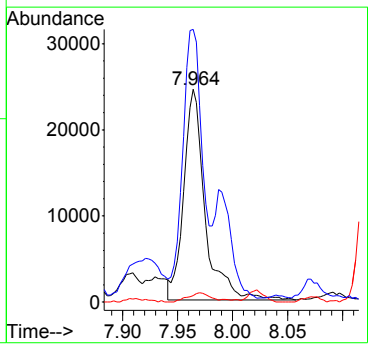


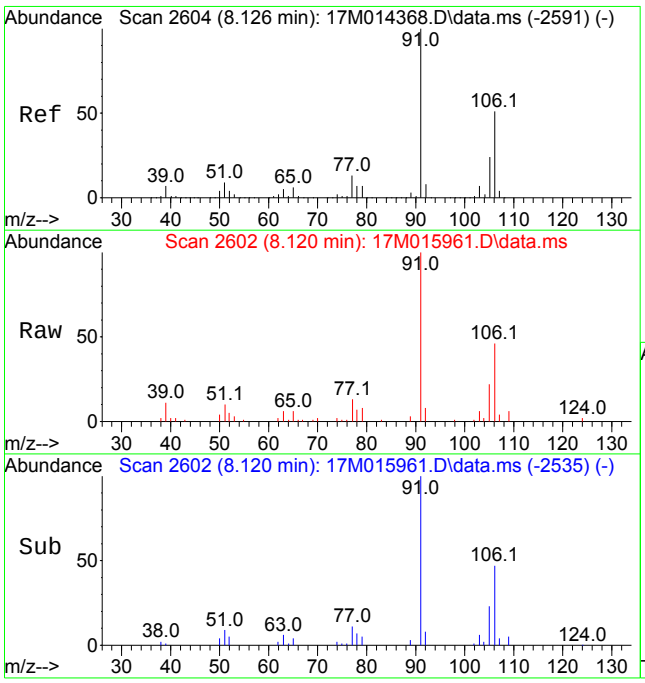


#56
1-Chlorohexane
Concen: 25.5810 ug/L
RT: 7.964 min Scan# 2548
Delta R.T. -0.038 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 69 Resp: 33028

Ion	Ratio	Lower	Upper
69	100		
91	5.1	1863.4	2795.0#
55	103.8	275.6	413.4#

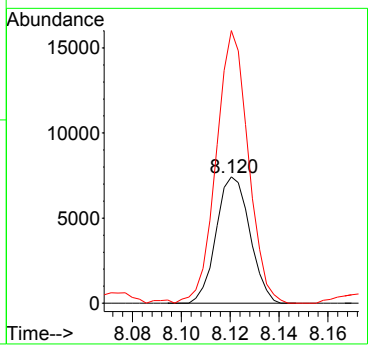


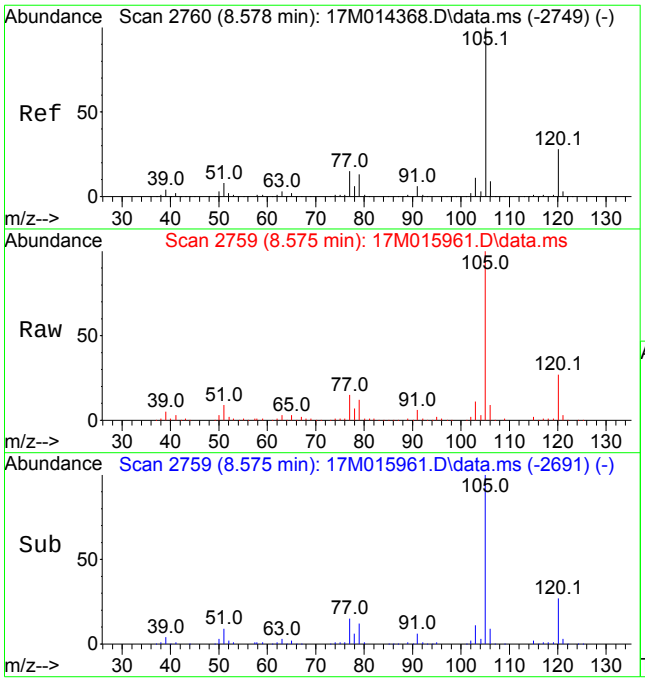


#59
m-,p-Xylene
Concen: 0.7781 ug/L
RT: 8.120 min Scan# 2602
Delta R.T. -0.006 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion:106 Resp: 7080

Ion	Ratio	Lower	Upper
106	100		
91	206.4	119.0	277.6

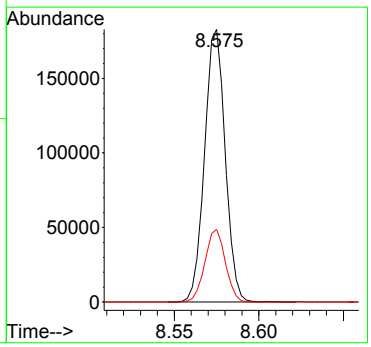


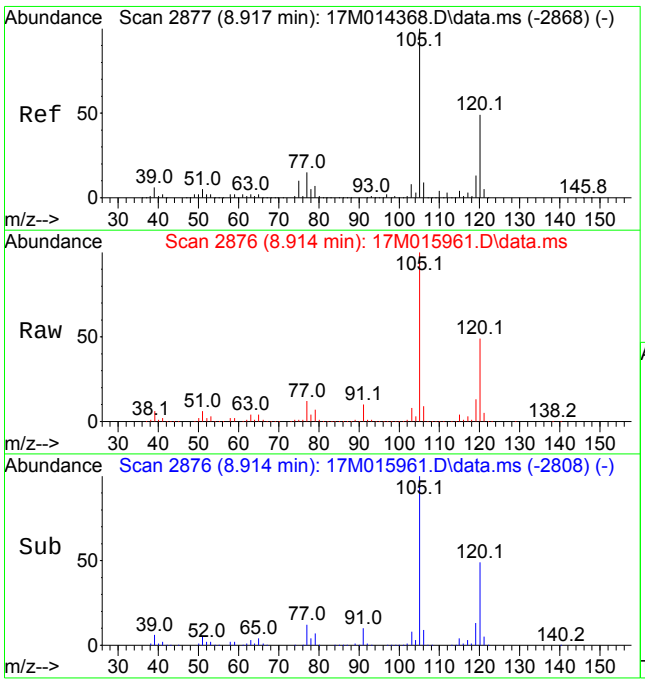


#63
Isopropylbenzene
Concen: 6.5526 ug/L
RT: 8.575 min Scan# 2759
Delta R.T. -0.003 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion:105 Resp: 154816

Ion	Ratio	Lower	Upper
105	100		
120	26.3	16.4	38.4

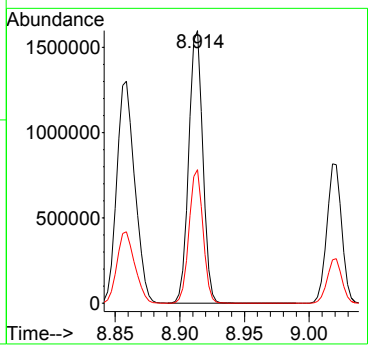


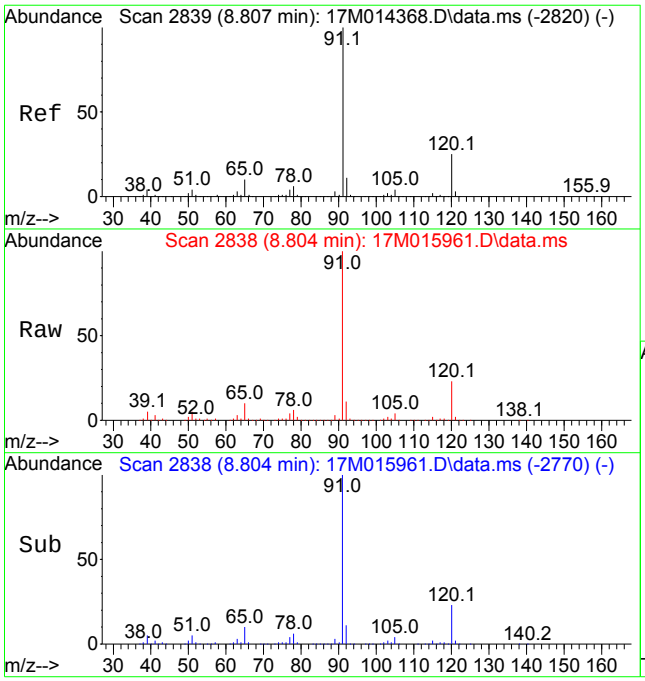


#65
1,3,5-Trimethylbenzene
Concen: 59.7285 ug/L
RT: 8.914 min Scan# 2876
Delta R.T. -0.003 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion:105 Resp: 1214750

Ion	Ratio	Lower	Upper
105	100		
120	48.7	39.2	58.8

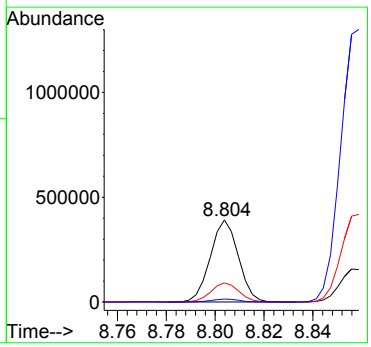


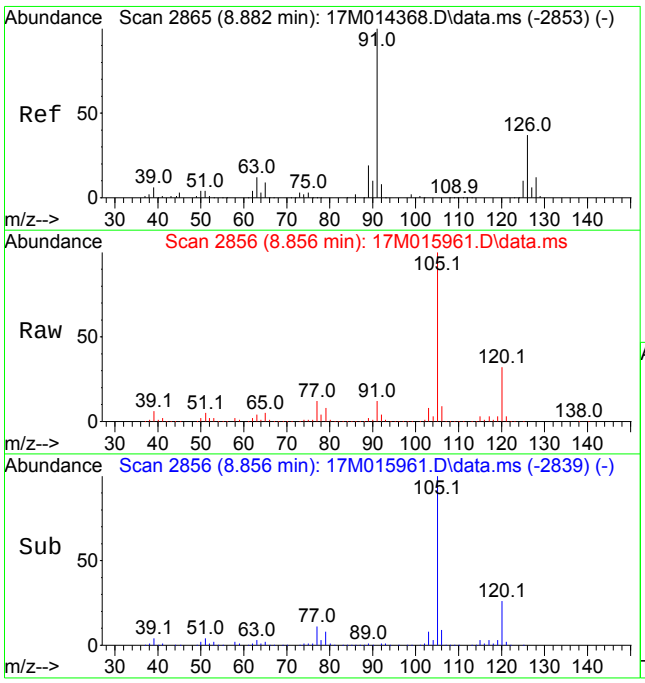


#68
n-Propylbenzene
Concen: 12.0188 ug/L
RT: 8.804 min Scan# 2838
Delta R.T. -0.003 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 91 Resp: 311009

Ion	Ratio	Lower	Upper
91	100		
120	23.4	15.0	35.0
105	3.6	2.3	5.3

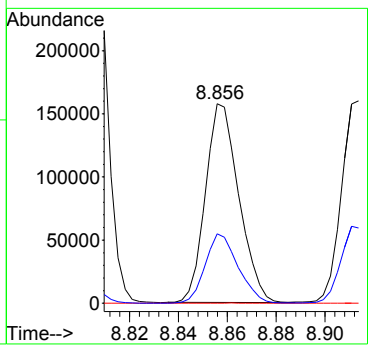


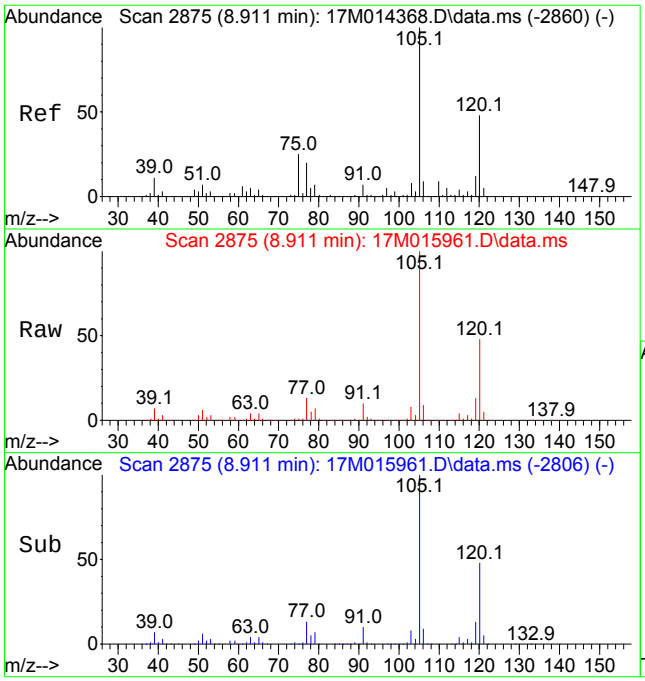


#70
2-Chlorotoluene
Concen: 9.2144 ug/L
RT: 8.856 min Scan# 2856
Delta R.T. -0.026 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 91 Resp: 149618

Ion	Ratio	Lower	Upper
91	100		
126	0.0	22.4	52.2#
63	34.3	7.7	18.1#

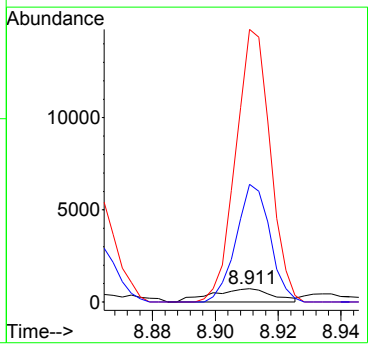


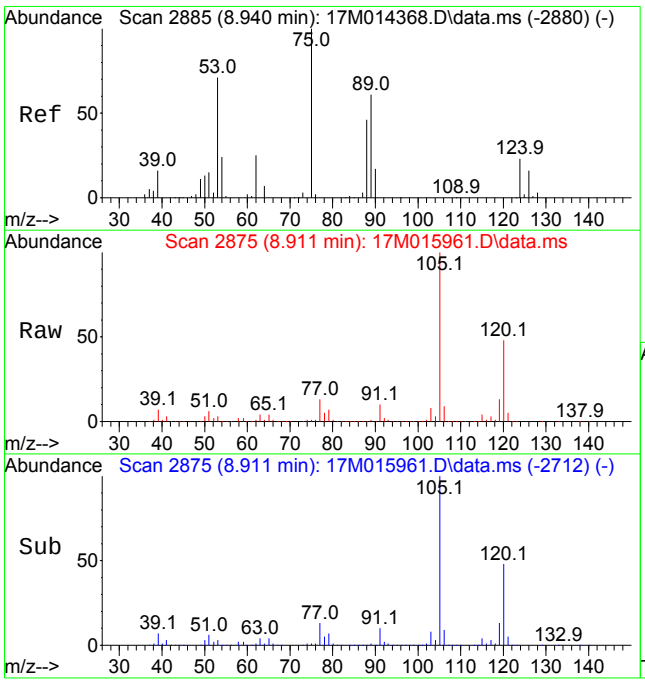


#71
1,2,3-Trichloropropane
Concen: 0.7653 ug/L
RT: 8.911 min Scan# 2875
Delta R.T. -0.000 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion:110 Resp: 976

Ion	Ratio	Lower	Upper
110	100		
75	1158.3	230.6	346.0#
61	491.6	59.5	89.3#

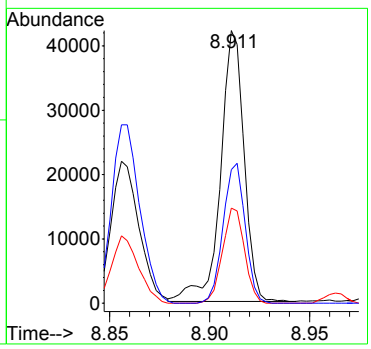


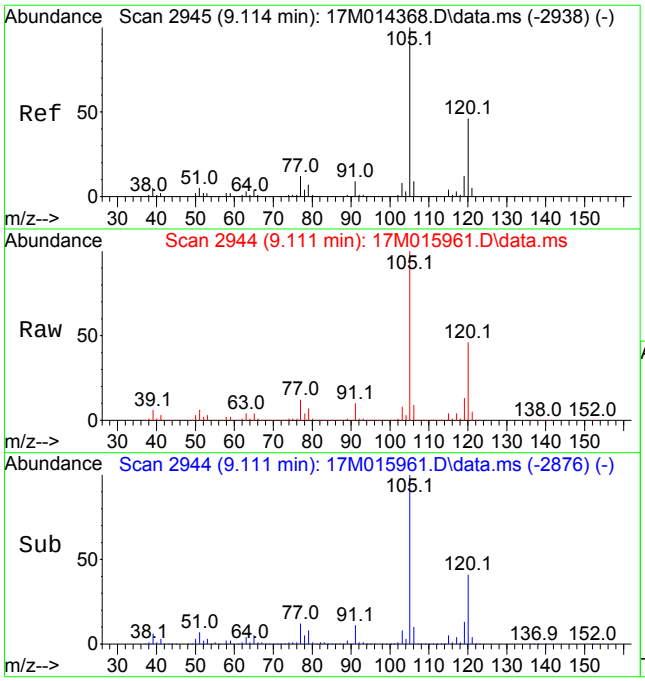


#72
trans-1,4-Dichloro-2-Butene
Concen: 40.6585 ug/L
RT: 8.911 min Scan# 2875
Delta R.T. -0.029 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 53 Resp: 34513

Ion	Ratio	Lower	Upper
53	100		
75	32.8	151.4	151.4#
89	48.4	70.1	105.1#

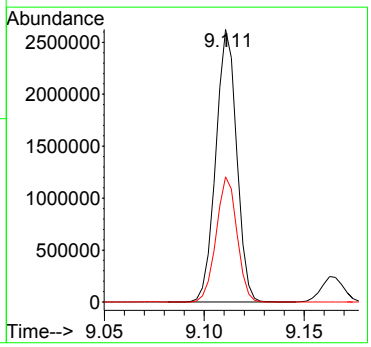


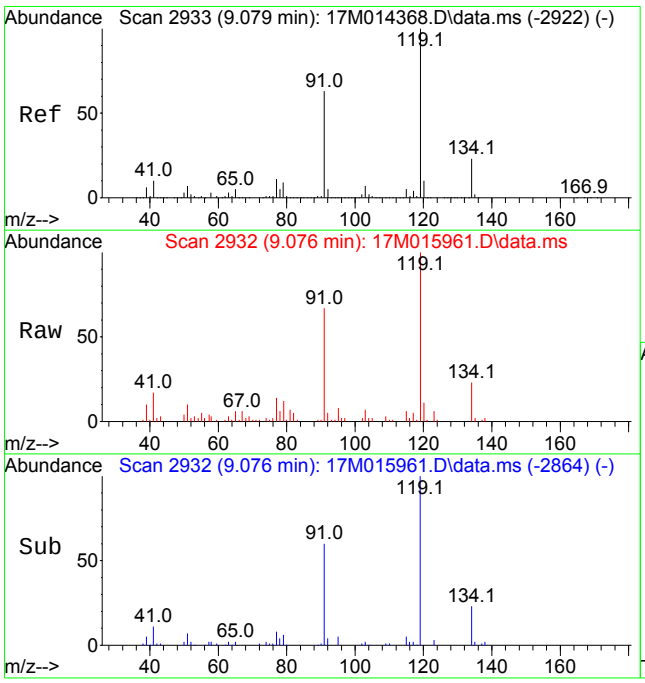


#73
1,2,4-Trimethylbenzene
Concen: 94.3206 ug/L
RT: 9.111 min Scan# 2944
Delta R.T. -0.003 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion:105 Resp: 1905168

Ion	Ratio	Lower	Upper
105	100		
120	45.7	36.6	55.0

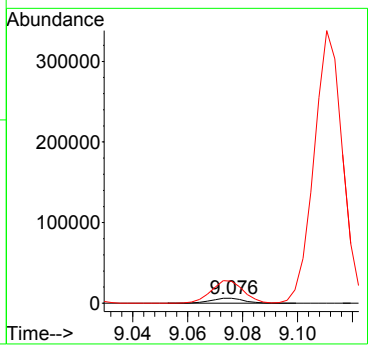


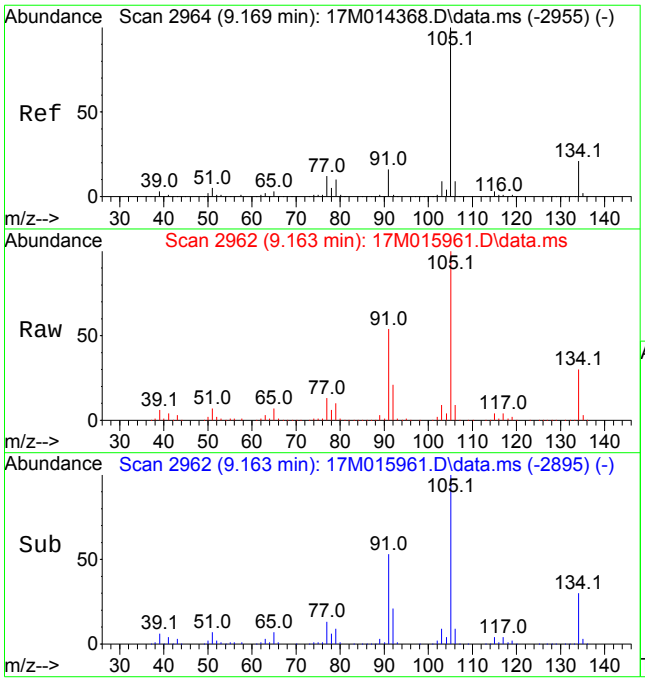


#75
tert-Butylbenzene
Concen: 1.2774 ug/L
RT: 9.076 min Scan# 2932
Delta R.T. -0.003 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion:134 Resp: 5112

Ion	Ratio	Lower	Upper
134	100		
119	449.9	270.8	632.0

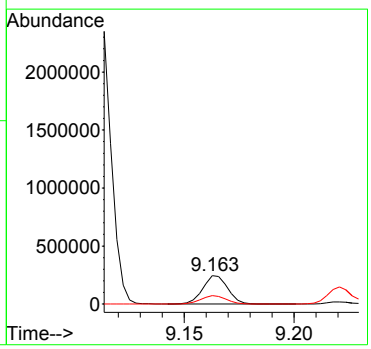


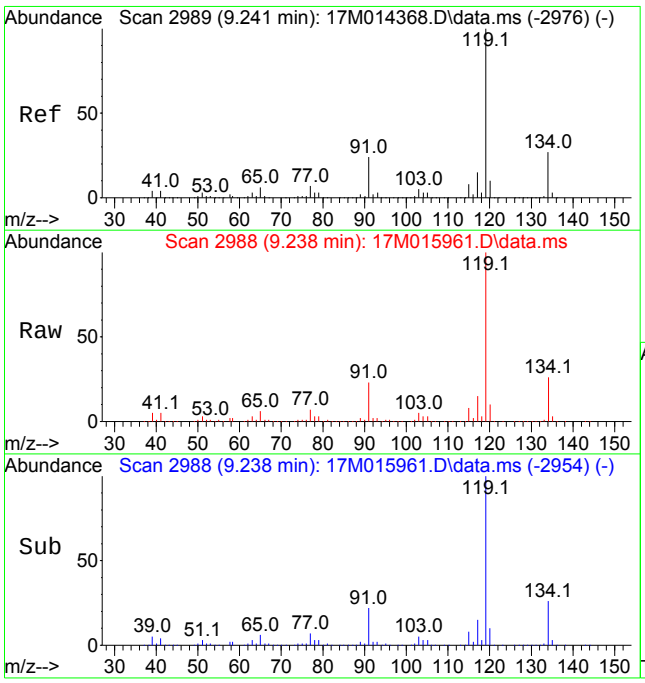


#76
sec-Butylbenzene
Concen: 7.7191 ug/L
RT: 9.163 min Scan# 2962
Delta R.T. -0.006 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion:105 Resp: 191705

Ion	Ratio	Lower	Upper
105	100		
134	30.1	12.3	28.7#

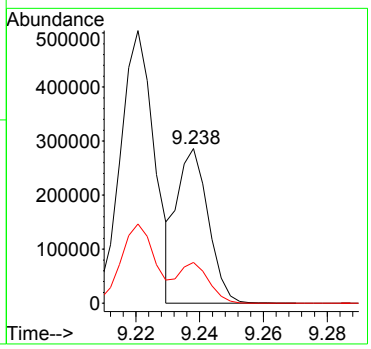


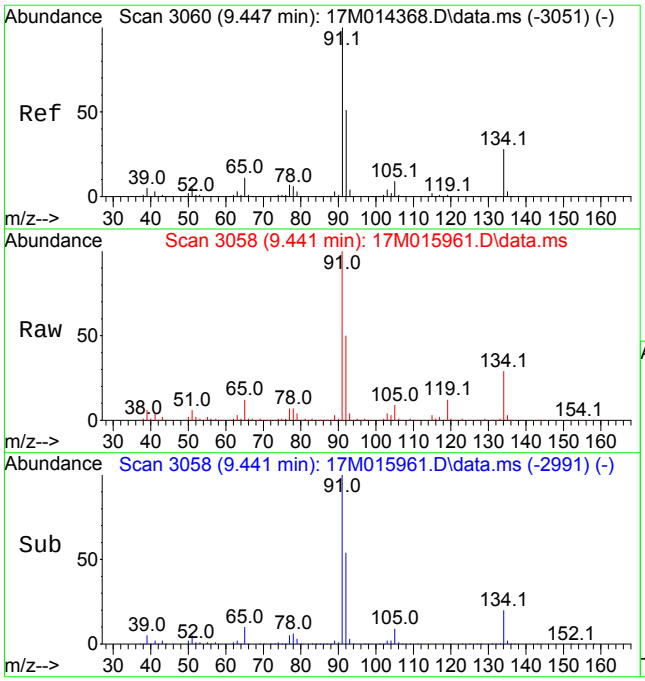


#77
p-Isopropyltoluene
Concen: 9.0557 ug/L m
RT: 9.238 min Scan# 2988
Delta R.T. -0.003 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion:119 Resp: 194909

Ion	Ratio	Lower	Upper
119	100		
134	81.8	16.2	37.8#

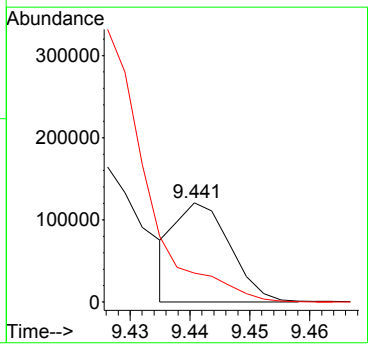


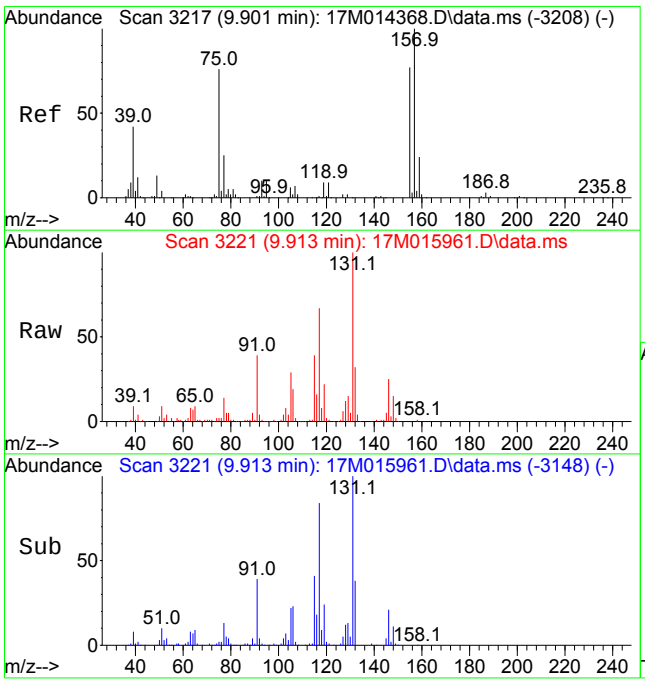


#80
n-Butylbenzene
Concen: 4.2596 ug/L m
RT: 9.441 min Scan# 3058
Delta R.T. -0.006 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 91 Resp: 77466

Ion	Ratio	Lower	Upper
91	100		
134	373.7	16.8	39.2#

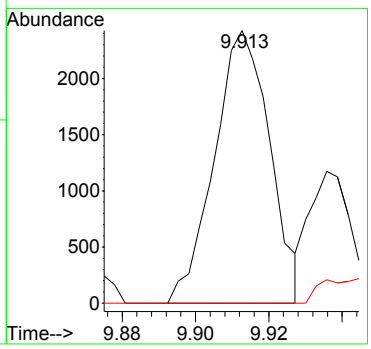


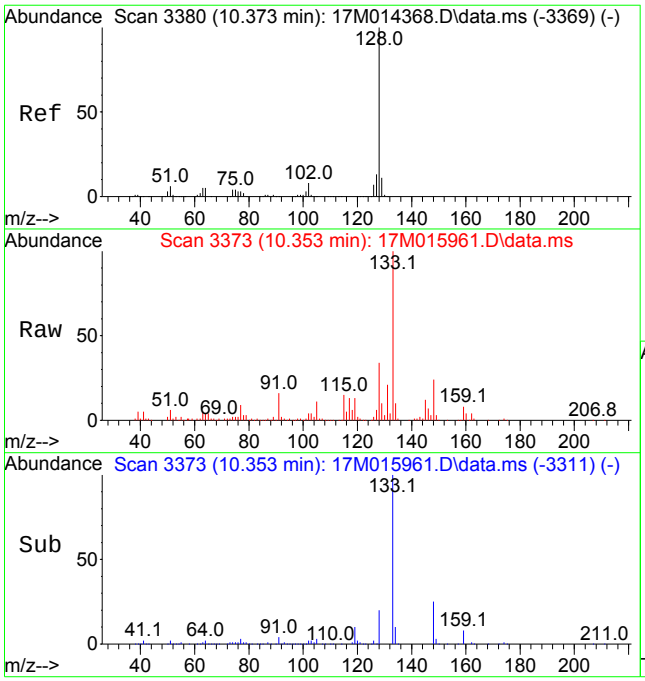


#82
1,2-Dibromo-3-Chloropropane
Concen: 3.1287 ug/L
RT: 9.913 min Scan# 3221
Delta R.T. 0.012 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

Tgt Ion: 75 Resp: 2554

Ion	Ratio	Lower	Upper
75	100		
157	0.0	77.0	179.6#

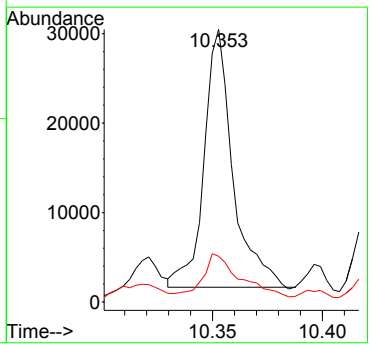




#85
Naphthalene
Concen: 1.6112 ug/L
RT: 10.353 min Scan# 3373
Delta R.T. -0.020 min
Lab File: 17M015961.D
Acq: 22 Oct 2015 20:38

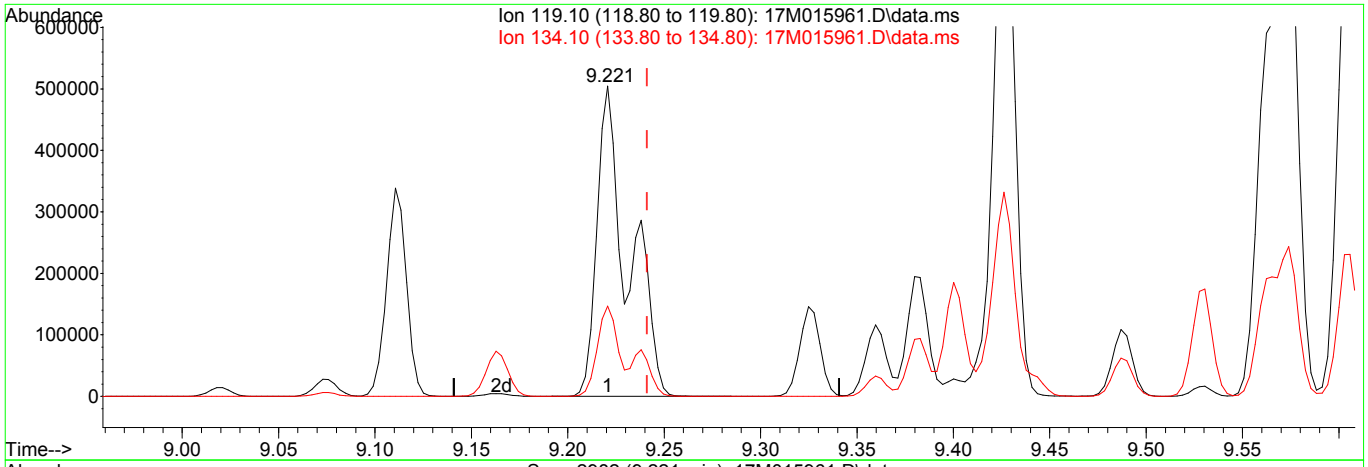
Tgt Ion:128 Resp: 26386

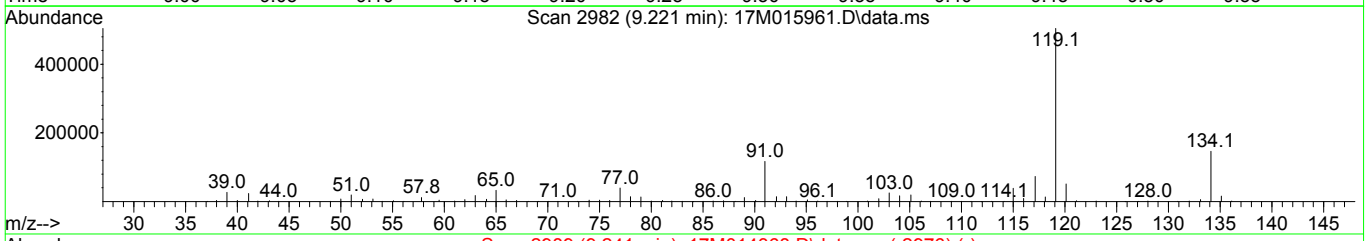
Ion	Ratio	Lower	Upper
128	100		
127	21.0	7.9	18.3#

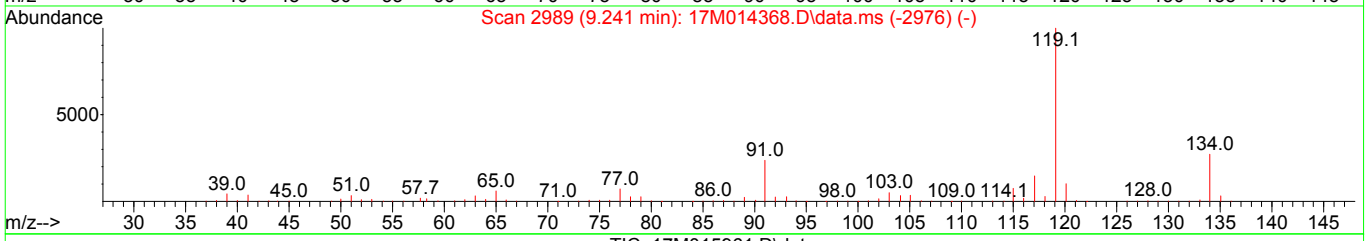


Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015961.D
Acq On : 22 Oct 2015 20:38
Operator : ADC
Sample : L15101278-02 A 826-SPE
Misc : 1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 25 12:50:15 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015961.D\data.ms

(77) p-Isopropyltoluene (T)

9.221min (-0.020) 26.41 ug/L

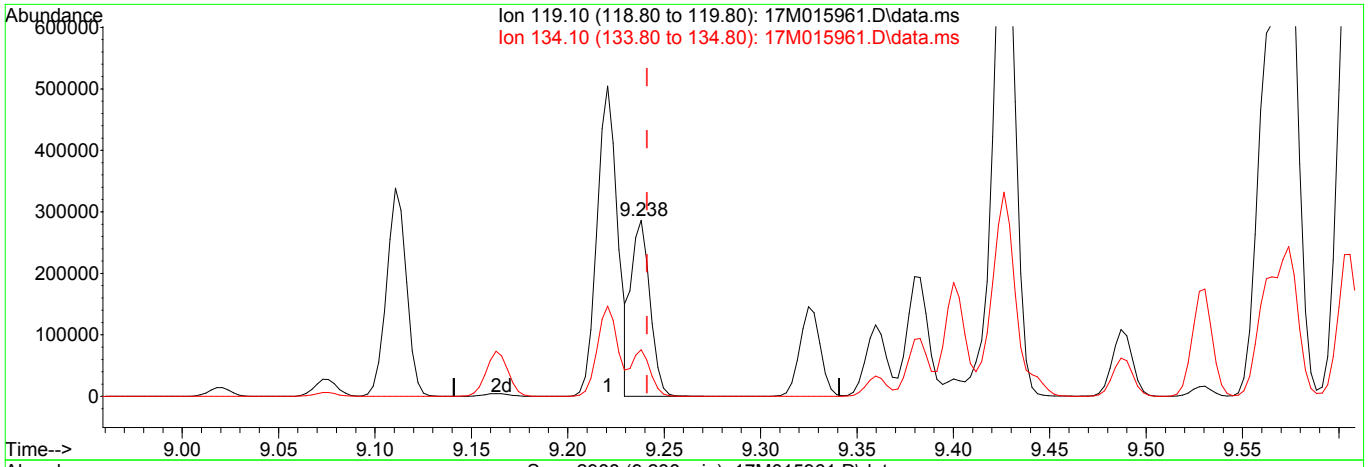
response 568413

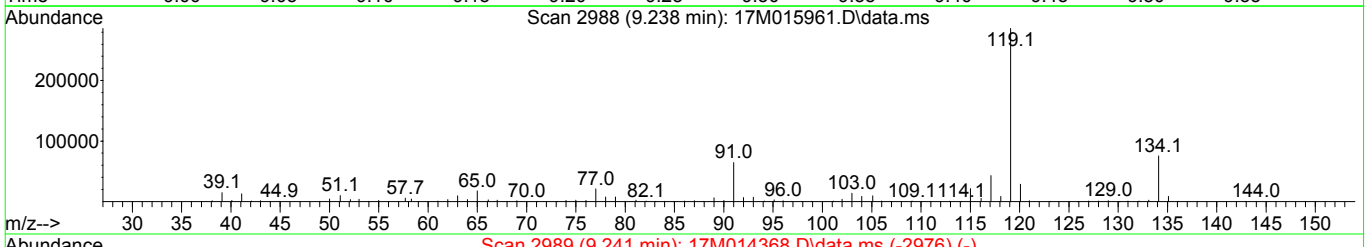
Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.00	28.06
0.00	0.00	0.00
0.00	0.00	0.00

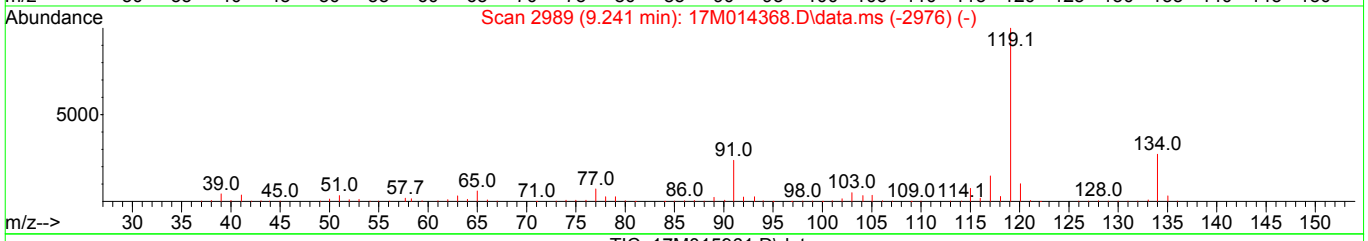
Quantitation Report (Qedit)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015961.D
Acq On : 22 Oct 2015 20:38
Operator : ADC
Sample : L15101278-02 A 826-SPE
Misc : 1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 25 12:50:15 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015961.D\data.ms

(77) p-Isopropyltoluene (T)

9.238min (-0.003) 9.06 ug/L mint

response 194909

Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.00	81.84#
0.00	0.00	0.00
0.00	0.00	0.00

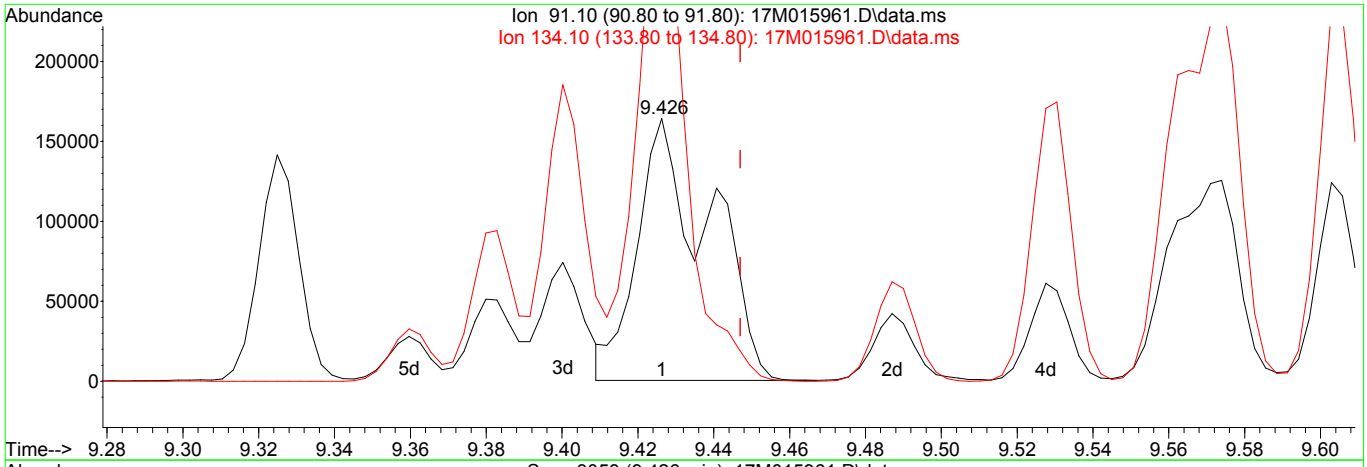
Analyst: 10/25/2015 14:09 Supervisor: 10/26/2015 12:48

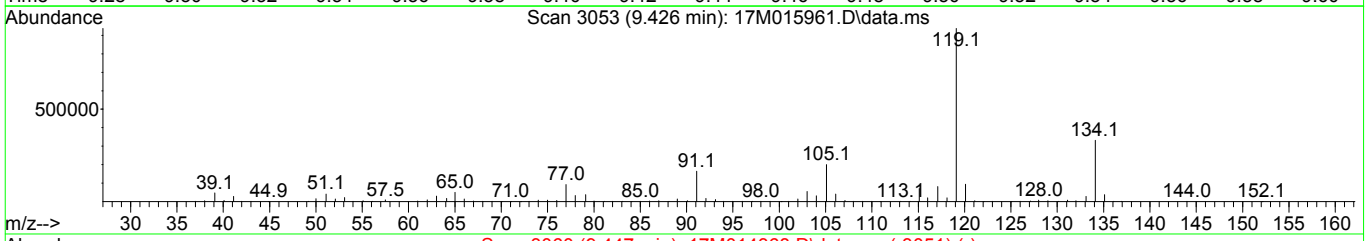
#1 - Data system fails to select correct peak

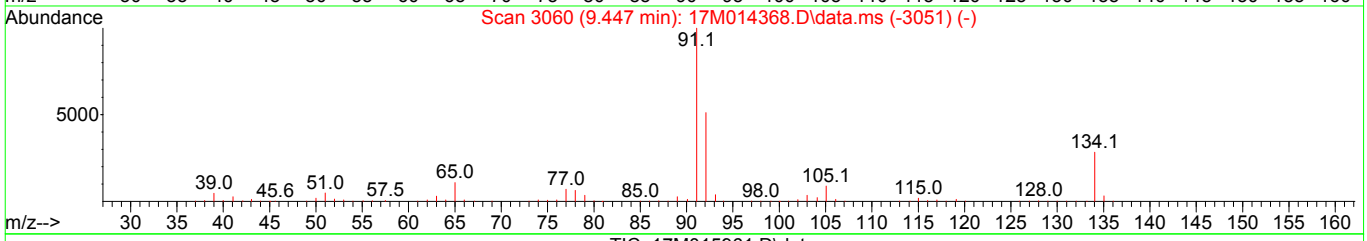
826VMS.M Sun Oct 25 13:21:25 2015 Page: 1

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015961.D
Acq On : 22 Oct 2015 20:38
Operator : ADC
Sample : L15101278-02 A 826-SPE
Misc : 1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 25 12:50:15 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015961.D\data.ms

(80) n-Butylbenzene (T)

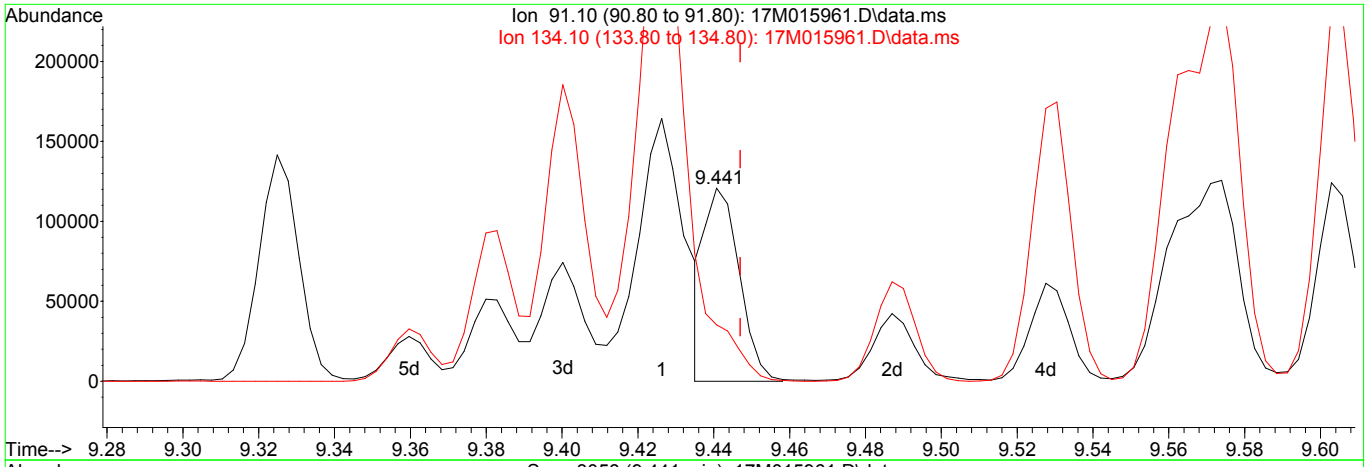
9.426min (-0.021) 11.87 ug/L

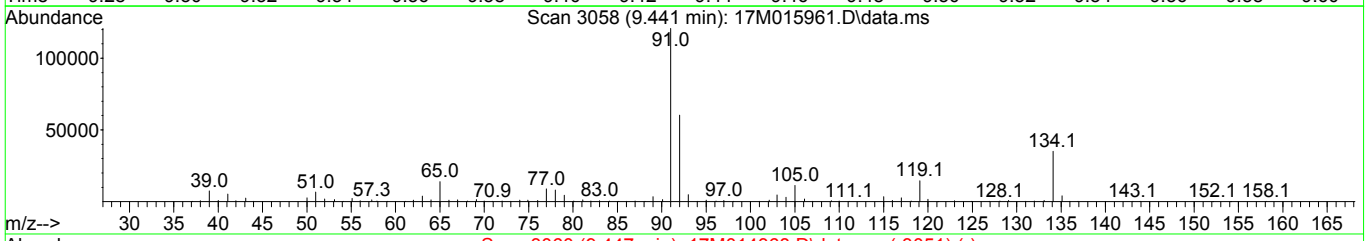
response 215854

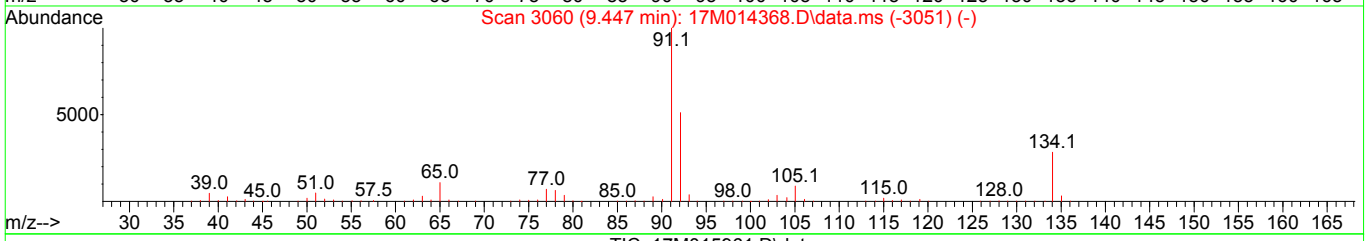
Ion	Exp%	Act%
91.10	100.00	100.00
134.10	28.00	134.12#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015961.D
Acq On : 22 Oct 2015 20:38
Operator : ADC
Sample : L15101278-02 A 826-SPE
Misc : 1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 25 12:50:15 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015961.D\data.ms

(80) n-Butylbenzene (T)

9.441min (-0.006) 4.26 ug/L mint

response 77466

Ion	Exp%	Act%
91.10	100.00	100.00
134.10	28.00	373.73#
0.00	0.00	0.00
0.00	0.00	0.00

Analyst: 10/25/2015 14:09 Supervisor: 10/26/2015 12:48

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015962.D
Acq On : 22 Oct 2015 20:58
Operator : ADC
Sample : L15101278-03 A 826-SPE
Misc : 1,1
ALS Vial : 29 Sample Multiplier: 1

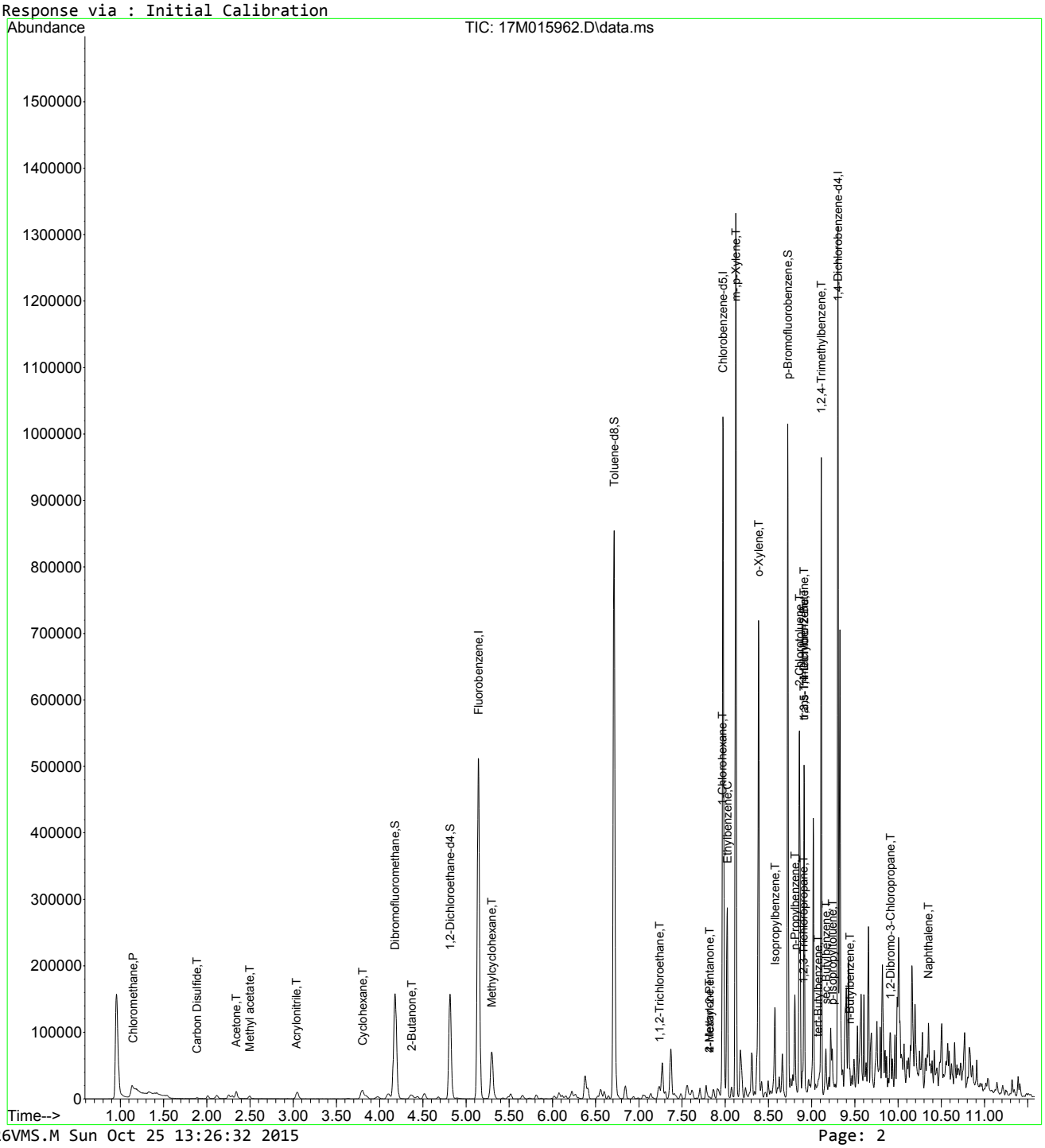
Quant Time: Oct 25 12:50:20 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	456492	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.973	117	337207	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.302	152	170417	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.177	111	122095	26.0876	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 104.350%			
34) 1,2-Dichloroethane-d4	4.814	65	117329	27.5214	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 110.086%			
47) Toluene-d8	6.713	98	457511	26.4557	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 105.823%			
66) p-Bromofluorobenzene	8.723	95	161440	27.3683	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 109.473%			
Target Compounds						Qvalue
3) Chloromethane	1.148	50	993	0.2135	ug/L #	42
11) Carbon Disulfide	1.887	76	1887	0.1266	ug/L #	73
16) Acetone	2.341	43	12932	16.7878	ug/L	93
18) Methyl acetate	2.498	43	1253	0.4389	ug/L #	56
21) Acrylonitrile	3.039	53	202	0.1903	ug/L #	8
25) Cyclohexane	3.803	56	9060	1.1694	ug/L #	79
32) 2-Butanone	4.371	43	6637	5.2824	ug/L #	58
36) Methylcyclohexane	5.297	83	29907	3.4001	ug/L	88
44) 4-Methyl-2-Pentanone	7.819	58	211	0.1836	ug/L #	57
50) 1,1,2-Trichloroethane	7.237	97	2384	0.5846	ug/L #	58
54) 2-Hexanone	7.816	43	895	0.4330	ug/L #	56
56) 1-Chlorohexane	7.964	69	11631	8.8671	ug/L #	1
57) Ethylbenzene	8.022	106	37690	4.8409	ug/L	71
59) m-,p-Xylene	8.120	106	216590	23.4312	ug/L	98
60) o-Xylene	8.384	106	104698	11.2682	ug/L	98
63) Isopropylbenzene	8.575	105	43831	1.8260	ug/L	99
65) 1,3,5-Trimethylbenzene	8.911	105	137044	6.8452	ug/L	99
68) n-Propylbenzene	8.804	91	51692	2.0293	ug/L	97
70) 2-Chlorotoluene	8.859	91	26812	1.6774	ug/L #	40
71) 1,2,3-Trichloropropane	8.902	110	243	0.1936	ug/L #	1
72) trans-1,4-Dichloro-2-B...	8.911	53	4305	5.1520	ug/L #	24
73) 1,2,4-Trimethylbenzene	9.111	105	251257	12.6365	ug/L	100
75) tert-Butylbenzene	9.073	134	520	0.1320	ug/L	89
76) sec-Butylbenzene	9.163	105	14592	0.5969	ug/L #	75
77) p-Isopropyltoluene	9.238	119	12202m	0.5759	ug/L	
80) n-Butylbenzene	9.441	91	6258m	0.3496	ug/L	
82) 1,2-Dibromo-3-Chloropr...	9.913	75	267	0.3323	ug/L #	1
85) Naphthalene	10.350	128	8958	0.5557	ug/L #	80

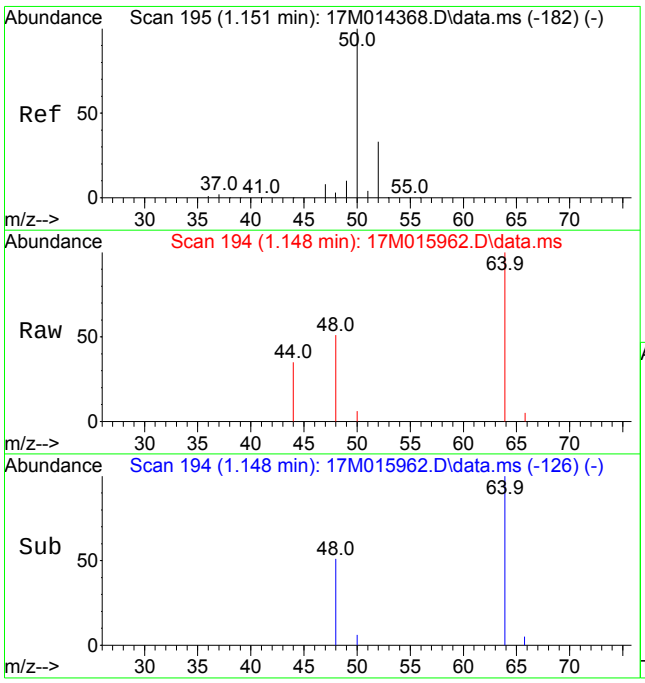
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015962.D
Acq On : 22 Oct 2015 20:58
Operator : ADC
Sample : L15101278-03 A 826-SPE
Misc : 1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 25 12:50:20 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration



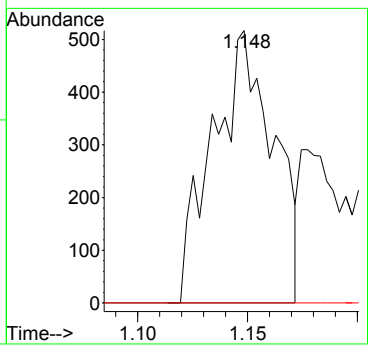
826VMS.M Sun Oct 25 13:26:32 2015 Page: 2

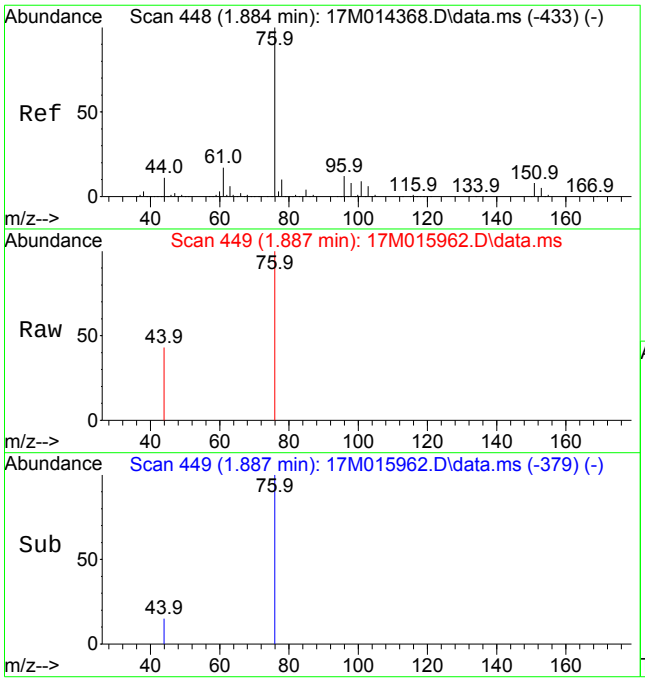


#3
Chloromethane
Concen: 0.2135 ug/L
RT: 1.148 min Scan# 194
Delta R.T. -0.003 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 50 Resp: 993

Ion	Ratio	Lower	Upper
50	100		
52	0.0	19.8	46.2#

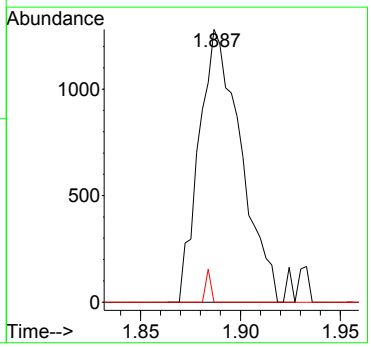


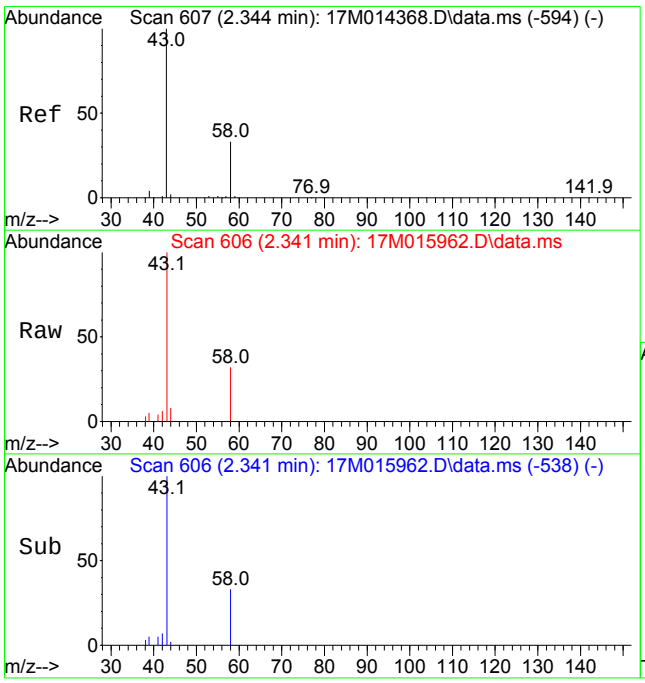


#11
Carbon Disulfide
Concen: 0.1266 ug/L
RT: 1.887 min Scan# 449
Delta R.T. 0.003 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 76 Resp: 1887

Ion	Ratio	Lower	Upper
76	100		
78	0.0	8.1	12.1#

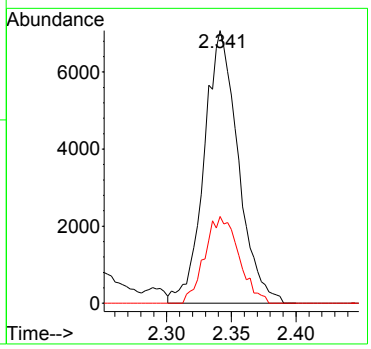


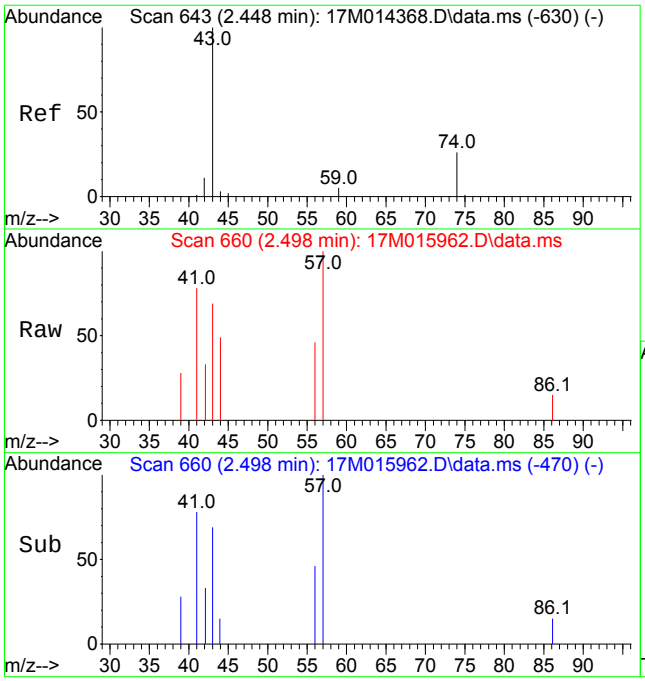


#16
Acetone
Concen: 16.7878 ug/L
RT: 2.341 min Scan# 606
Delta R.T. -0.003 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 43 Resp: 12932

Ion	Ratio	Lower	Upper
43	100		
58	31.9	21.7	50.7

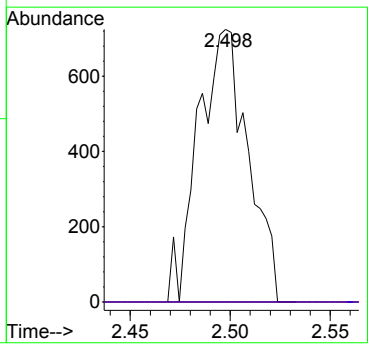


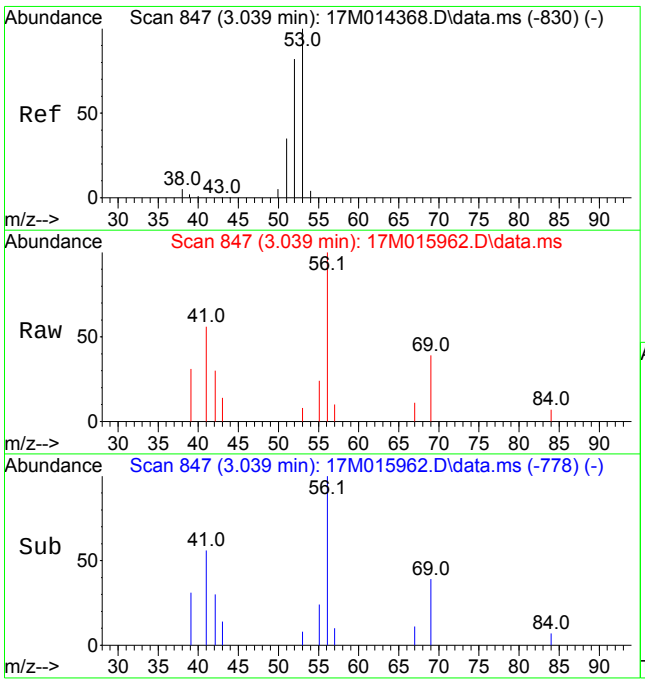


#18
Methyl acetate
Concen: 0.4389 ug/L
RT: 2.498 min Scan# 660
Delta R.T. 0.050 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 43 Resp: 1253

Ion	Ratio	Lower	Upper
43	100		
74	0.0	25.6	25.6#
59	0.0	6.2	9.4#

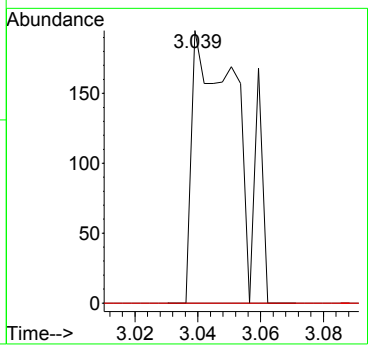


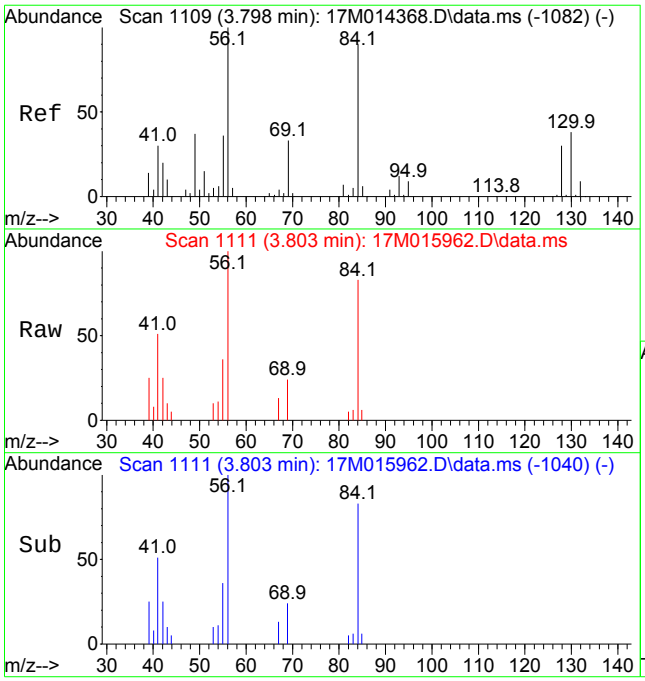


#21
Acrylonitrile
Concen: 0.1903 ug/L
RT: 3.039 min Scan# 847
Delta R.T. 0.000 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 53 Resp: 202

Ion	Ratio	Lower	Upper
53	100		
52	0.0	50.2	117.0#

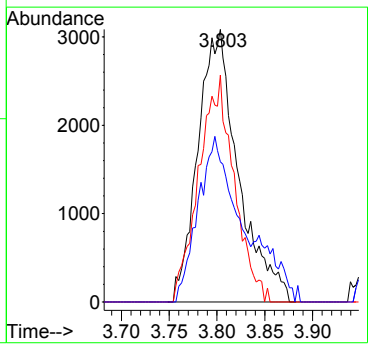


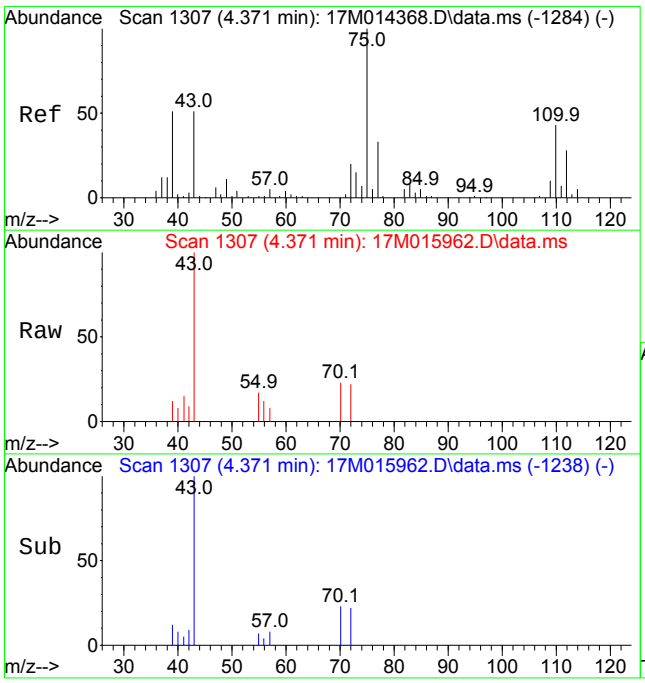


#25
Cyclohexane
Concen: 1.1694 ug/L
RT: 3.803 min Scan# 1111
Delta R.T. 0.005 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 56 Resp: 9060

Ion	Ratio	Lower	Upper
56	100		
84	72.4	71.4	107.0
41	69.1	41.2	61.8#

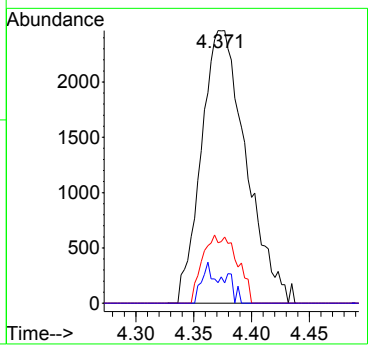


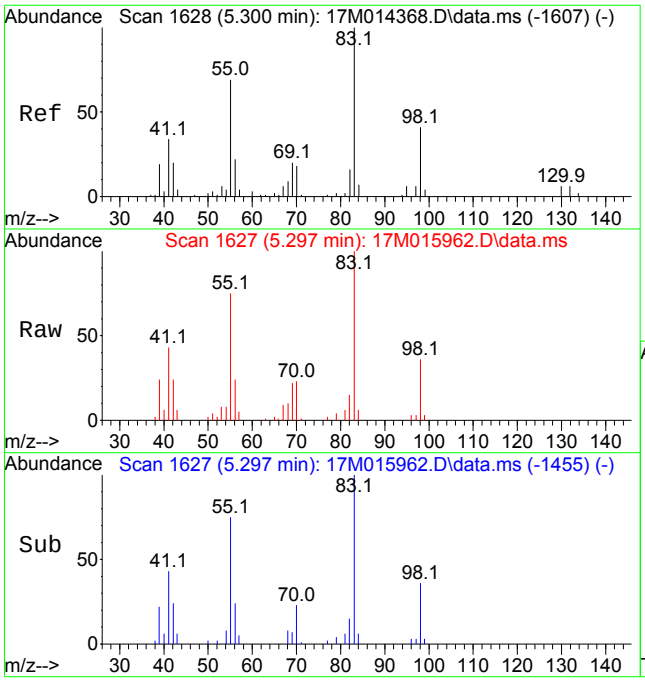


#32
2-Butanone
Concen: 5.2824 ug/L
RT: 4.371 min Scan# 1307
Delta R.T. -0.000 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 43 Resp: 6637

Ion	Ratio	Lower	Upper
43	100		
72	19.1	42.5	63.7#
57	7.1	8.2	12.2#

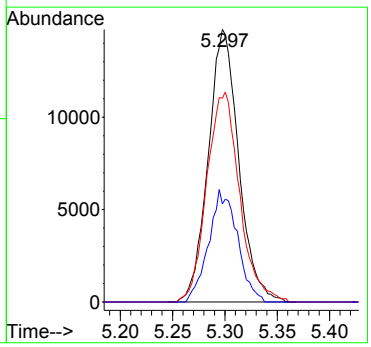


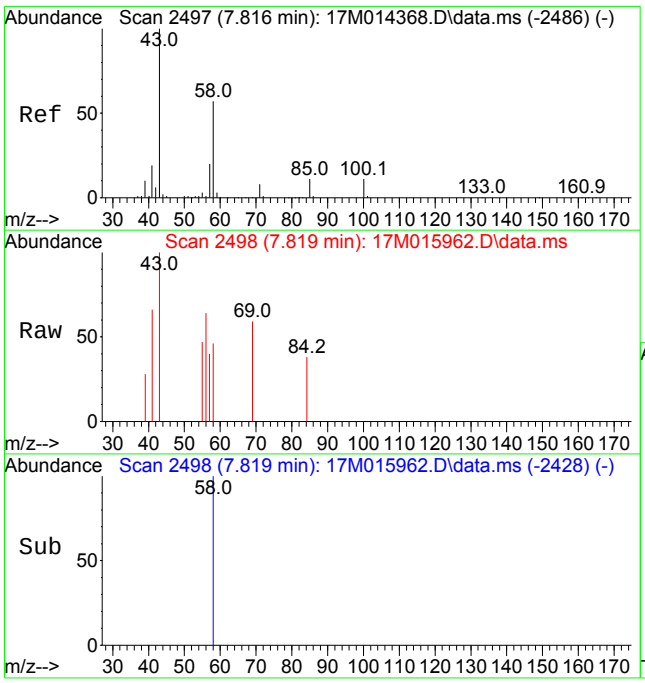


#36
Methylcyclohexane
Concen: 3.4001 ug/L
RT: 5.297 min Scan# 1627
Delta R.T. -0.003 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 83 Resp: 29907

Ion	Ratio	Lower	Upper
83	100		
55	82.7	55.8	83.8
98	38.7	34.2	51.2

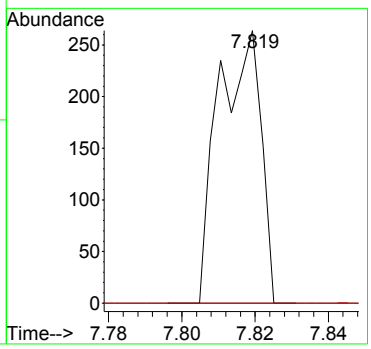


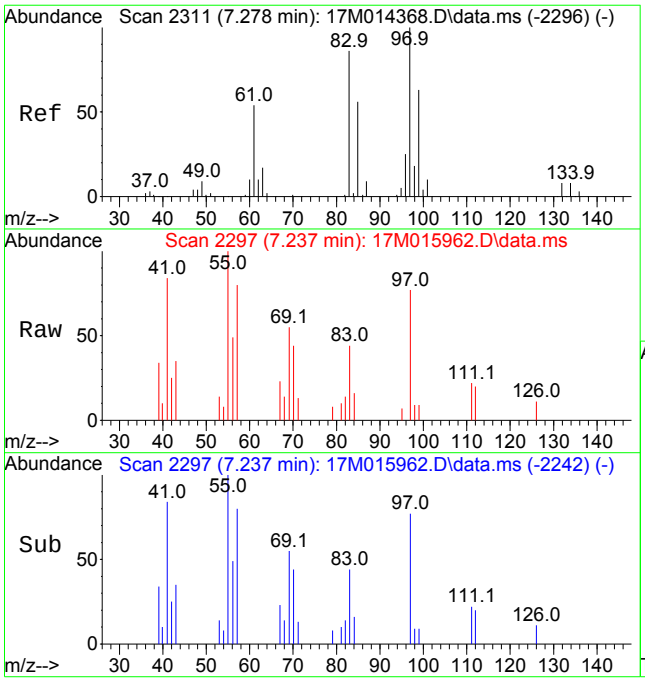


#44
4-Methyl-2-Pentanone
Concen: 0.1836 ug/L
RT: 7.819 min Scan# 2498
Delta R.T. 0.003 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 58 Resp: 211

Ion	Ratio	Lower	Upper
58	100		
85	0.0	11.8	27.6#

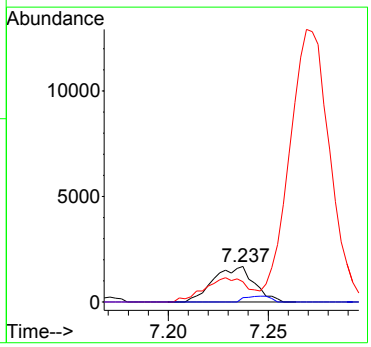


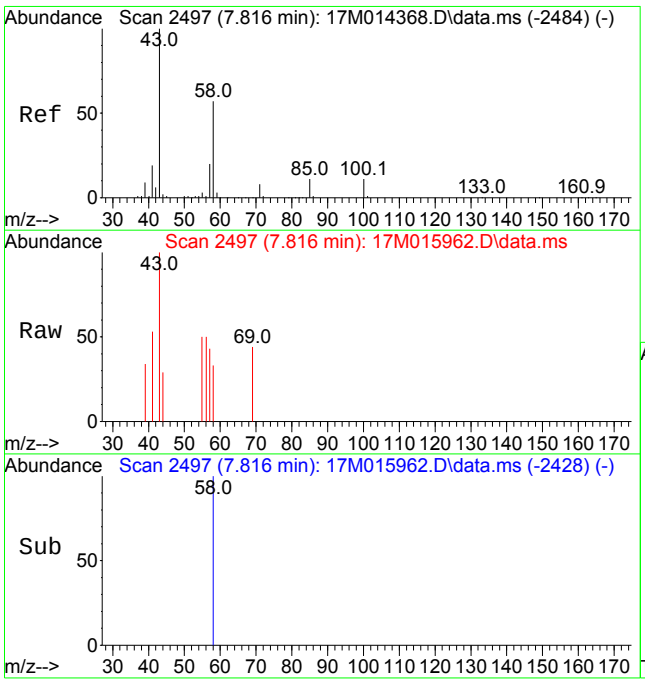


#50
1,1,2-Trichloroethane
Concen: 0.5846 ug/L
RT: 7.237 min Scan# 2297
Delta R.T. -0.041 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 97 Resp: 2384

Ion	Ratio	Lower	Upper
97	100		
83	74.8	51.8	120.8
99	0.0	37.9	88.3#

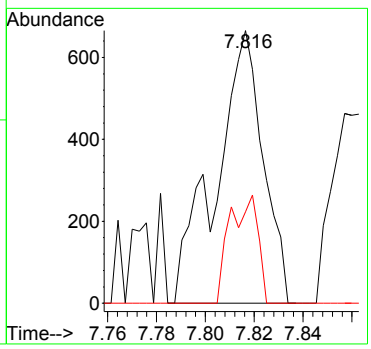


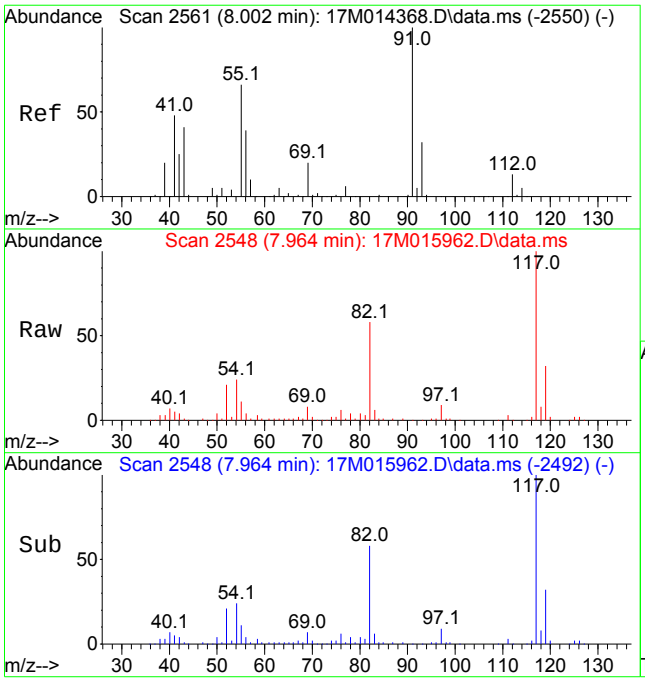


#54
2-Hexanone
Concen: 0.4330 ug/L
RT: 7.816 min Scan# 2497
Delta R.T. 0.000 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 43 Resp: 895

Ion	Ratio	Lower	Upper
43	100		
58	23.6	44.8	67.2#

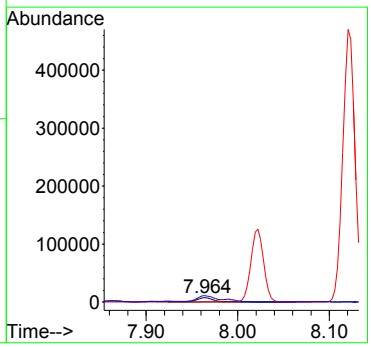


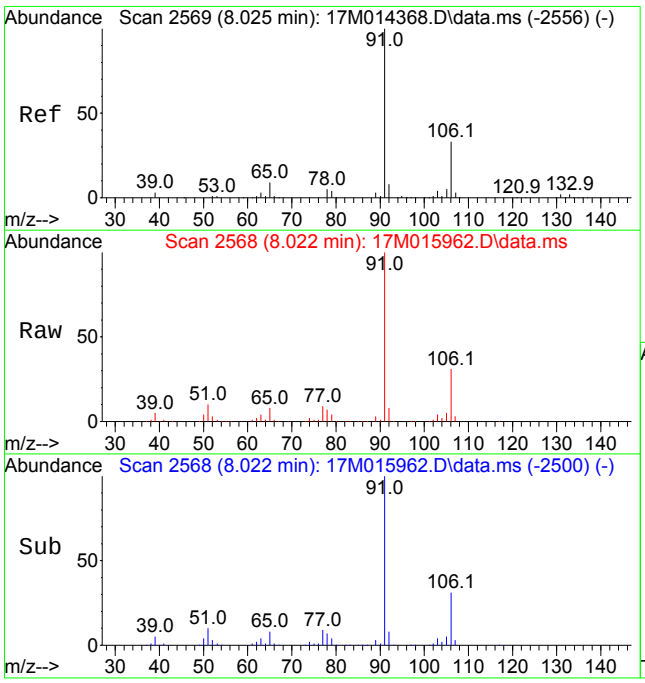


#56
1-Chlorohexane
Concen: 8.8671 ug/L
RT: 7.964 min Scan# 2548
Delta R.T. -0.038 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 69 Resp: 11631

Ion	Ratio	Lower	Upper
69	100		
91	9.3	1863.4	2795.0#
55	168.6	275.6	413.4#

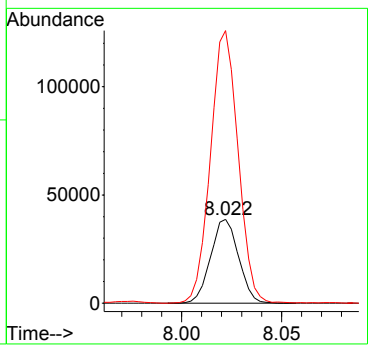


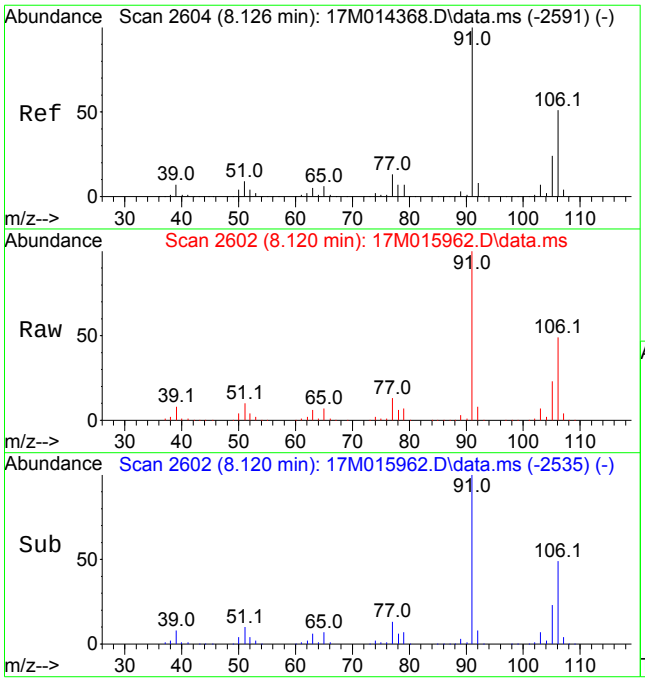


#57
Ethylbenzene
Concen: 4.8409 ug/L
RT: 8.022 min Scan# 2568
Delta R.T. -0.003 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion:106 Resp: 37690

Ion	Ratio	Lower	Upper
106	100		
91	321.7	311.7	467.5

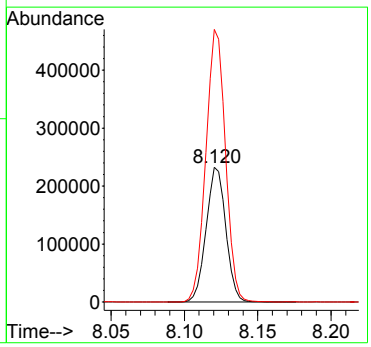


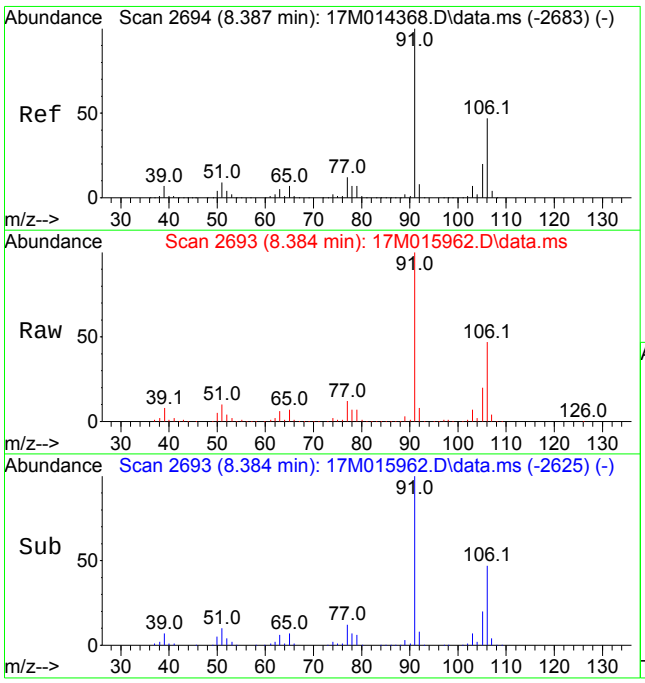


#59
m-,p-Xylene
Concen: 23.4312 ug/L
RT: 8.120 min Scan# 2602
Delta R.T. -0.006 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion:106 Resp: 216590

Ion	Ratio	Lower	Upper
106	100		
91	201.8	119.0	277.6

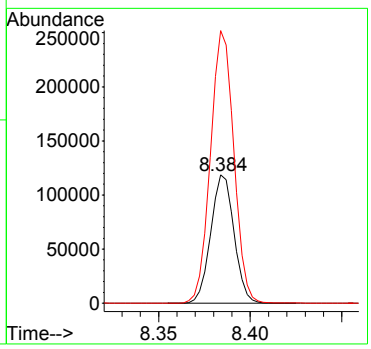


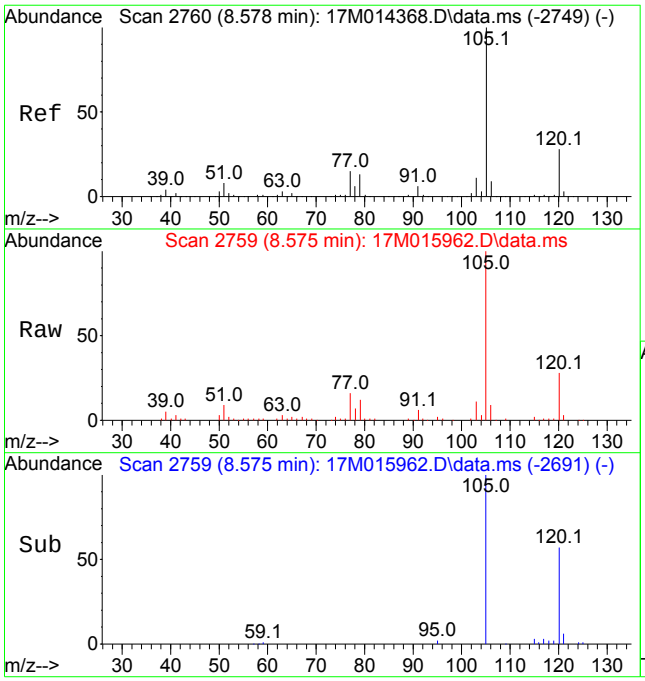


#60
o-Xylene
Concen: 11.2682 ug/L
RT: 8.384 min Scan# 2693
Delta R.T. -0.003 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion:106 Resp: 104698

Ion	Ratio	Lower	Upper
106	100		
91	213.9	126.2	294.4

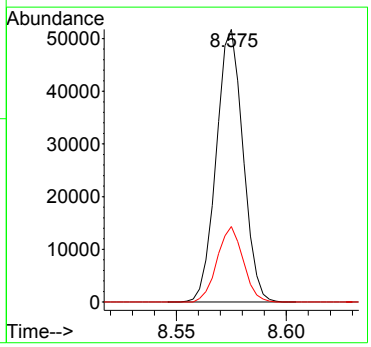


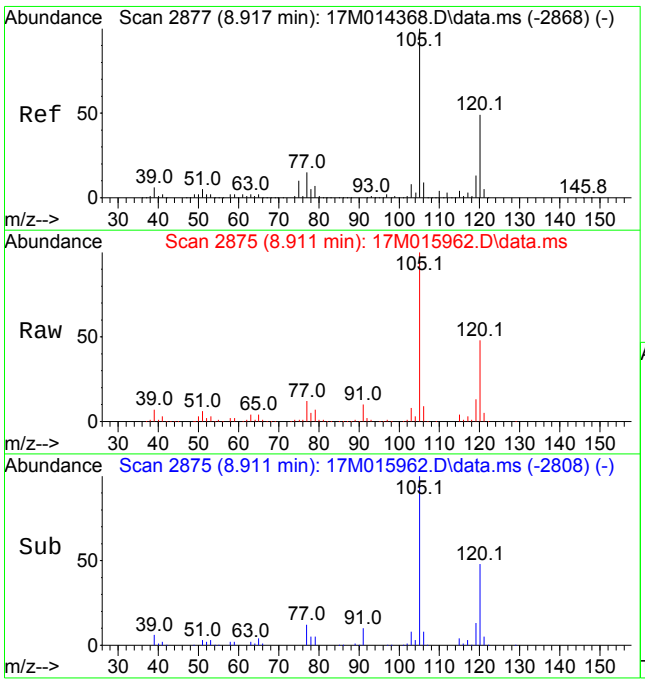


#63
Isopropylbenzene
Concen: 1.8260 ug/L
RT: 8.575 min Scan# 2759
Delta R.T. -0.003 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion:105 Resp: 43831

Ion	Ratio	Lower	Upper
105	100		
120	26.8	16.4	38.4

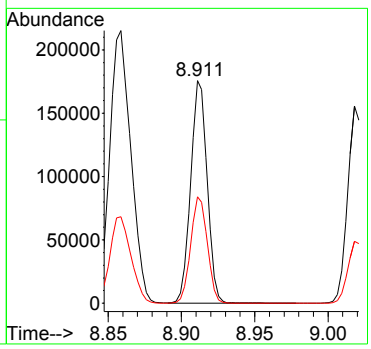


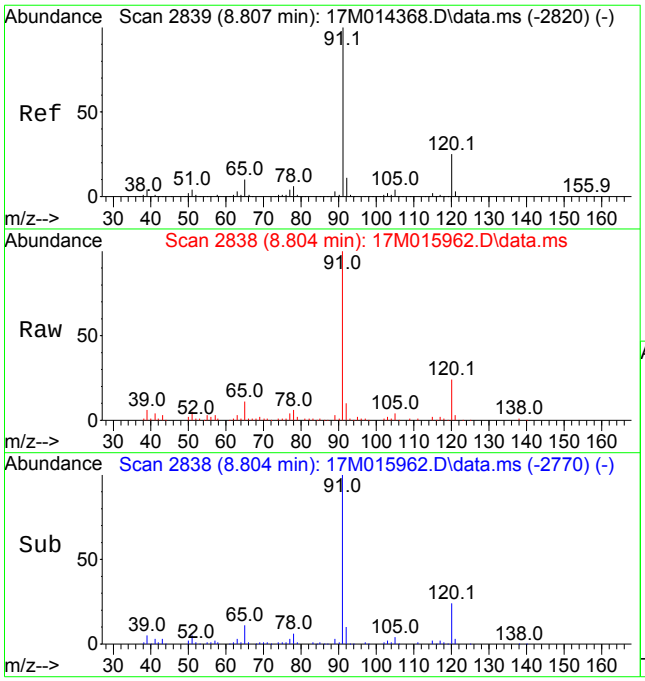


#65
1,3,5-Trimethylbenzene
Concen: 6.8452 ug/L
RT: 8.911 min Scan# 2875
Delta R.T. -0.006 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion:105 Resp: 137044

Ion	Ratio	Lower	Upper
105	100		
120	48.1	39.2	58.8

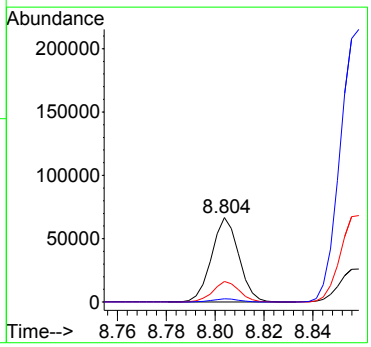


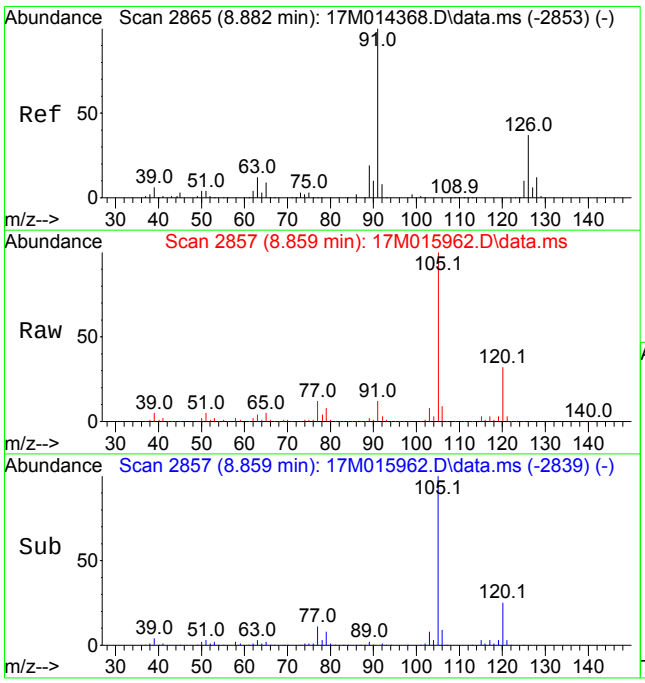


#68
n-Propylbenzene
Concen: 2.0293 ug/L
RT: 8.804 min Scan# 2838
Delta R.T. -0.003 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 91 Resp: 51692

Ion	Ratio	Lower	Upper
91	100		
120	23.5	15.0	35.0
105	3.7	2.3	5.3

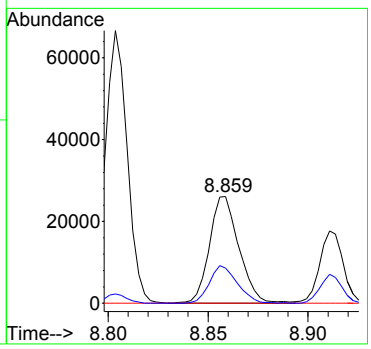


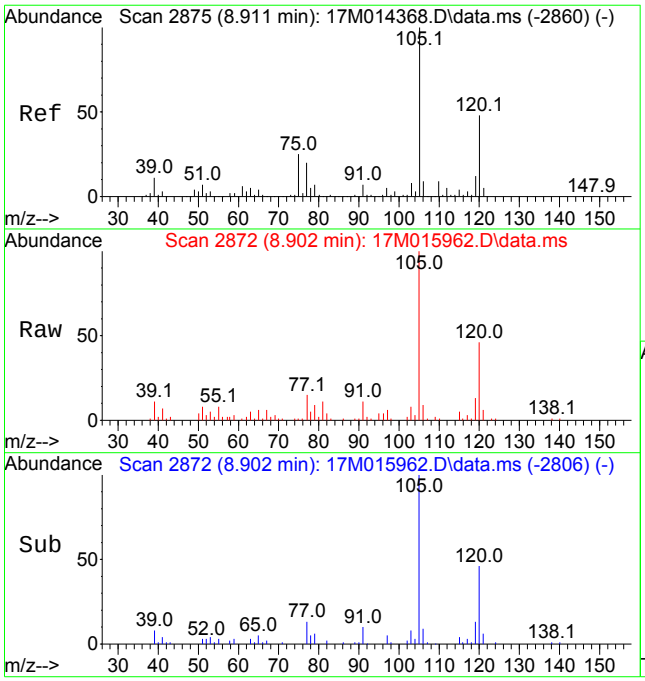


#70
2-Chlorotoluene
Concen: 1.6774 ug/L
RT: 8.859 min Scan# 2857
Delta R.T. -0.023 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 91 Resp: 26812

Ion	Ratio	Lower	Upper
91	100		
126	0.0	22.4	52.2#
63	33.2	7.7	18.1#

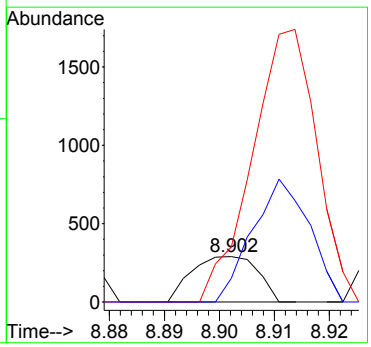


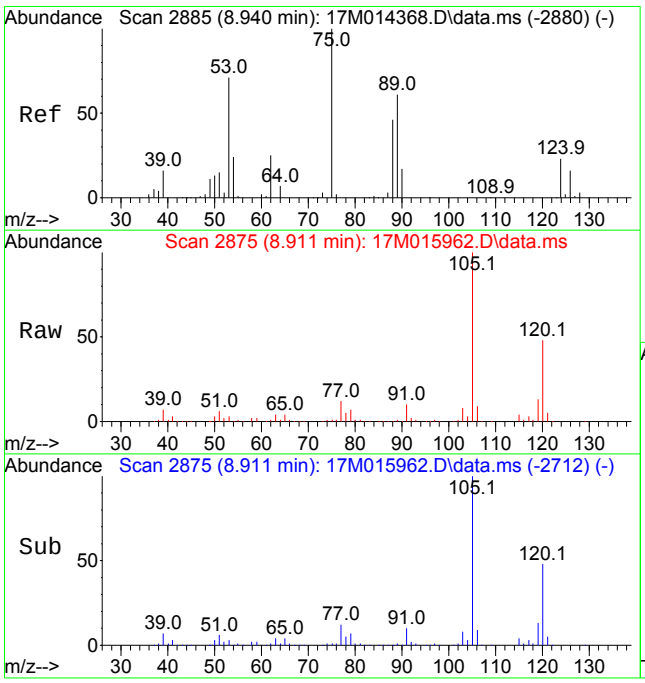


#71
1,2,3-Trichloropropane
Concen: 0.1936 ug/L
RT: 8.902 min Scan# 2872
Delta R.T. -0.009 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion:110 Resp: 243

Ion	Ratio	Lower	Upper
110	100		
75	583.1	230.6	346.0#
61	232.1	59.5	89.3#

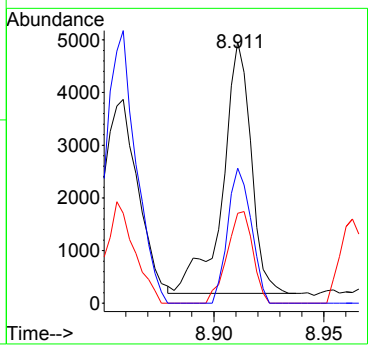


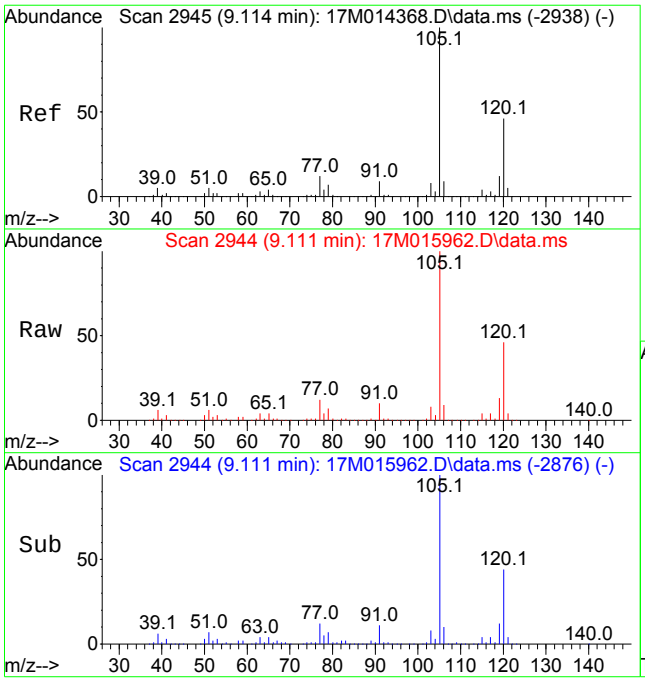


#72
trans-1,4-Dichloro-2-Butene
Concen: 5.1520 ug/L
RT: 8.911 min Scan# 2875
Delta R.T. -0.029 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 53 Resp: 4305

Ion	Ratio	Lower	Upper
53	100		
75	32.9	151.4	151.4#
89	44.7	70.1	105.1#

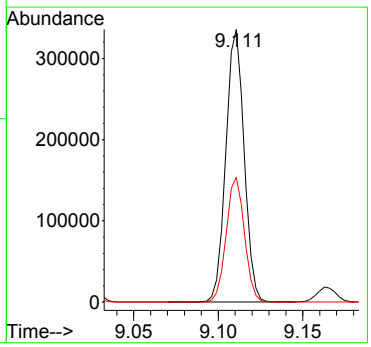


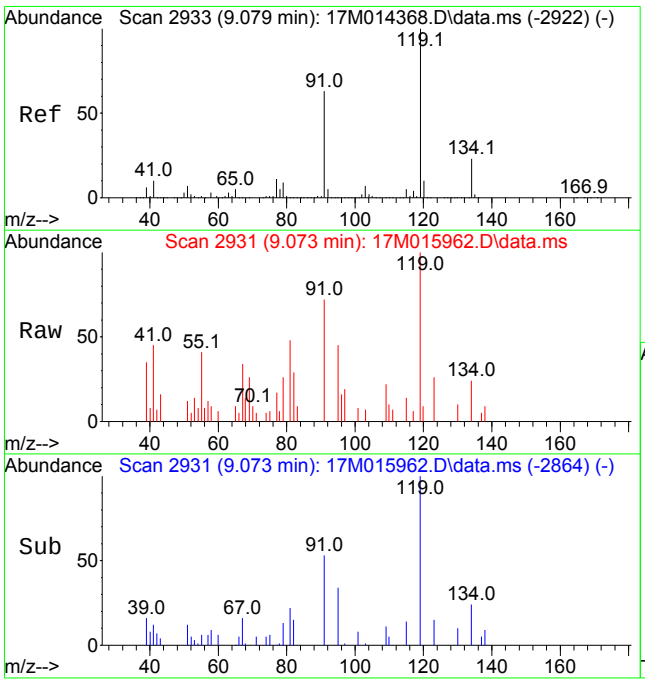


#73
1,2,4-Trimethylbenzene
Concen: 12.6365 ug/L
RT: 9.111 min Scan# 2944
Delta R.T. -0.003 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion:105 Resp: 251257

Ion	Ratio	Lower	Upper
105	100		
120	45.5	36.6	55.0

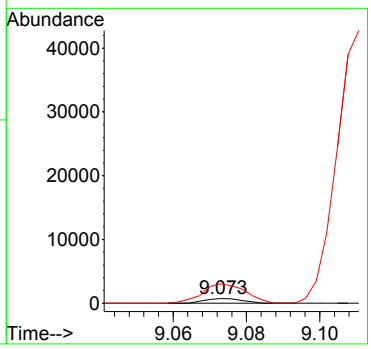


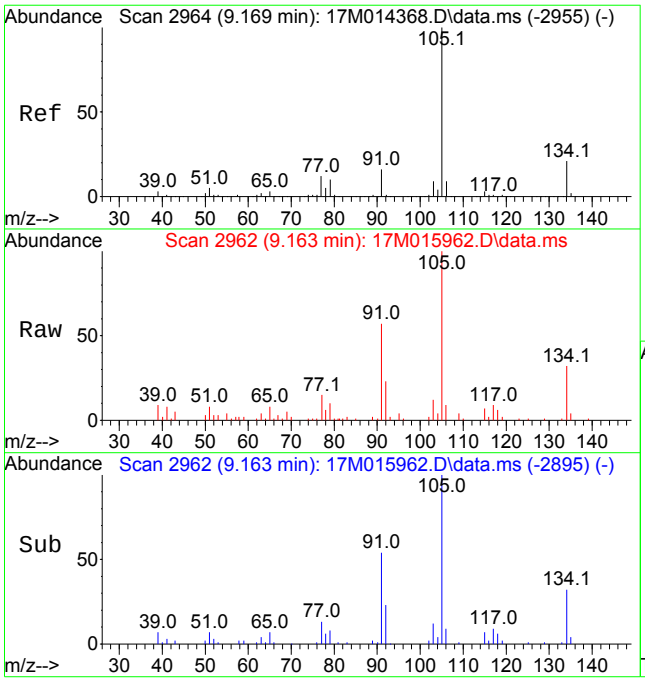


#75
tert-Butylbenzene
Concen: 0.1320 ug/L
RT: 9.073 min Scan# 2931
Delta R.T. -0.006 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion:134 Resp: 520

Ion	Ratio	Lower	Upper
134	100		
119	479.2	270.8	632.0

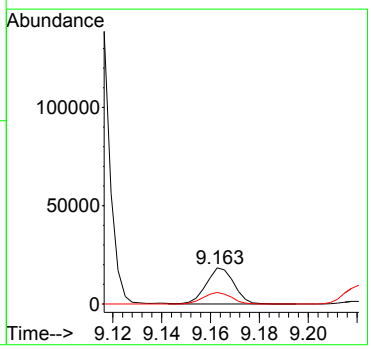


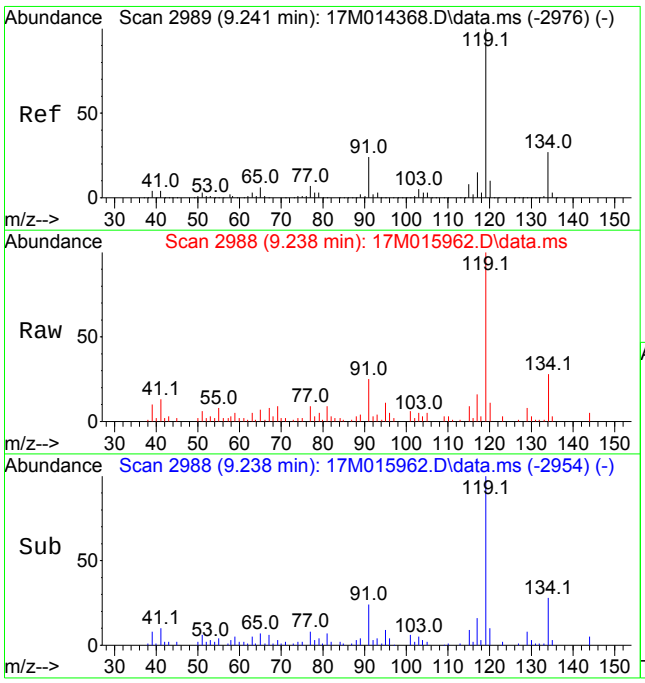


#76
sec-Butylbenzene
Concen: 0.5969 ug/L
RT: 9.163 min Scan# 2962
Delta R.T. -0.006 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion:105 Resp: 14592

Ion	Ratio	Lower	Upper
105	100		
134	32.0	12.3	28.7#

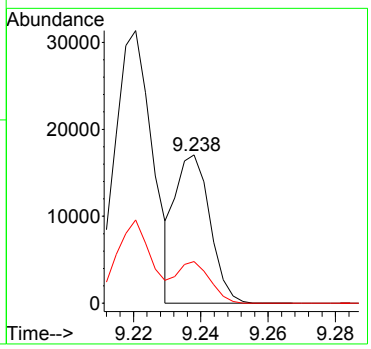


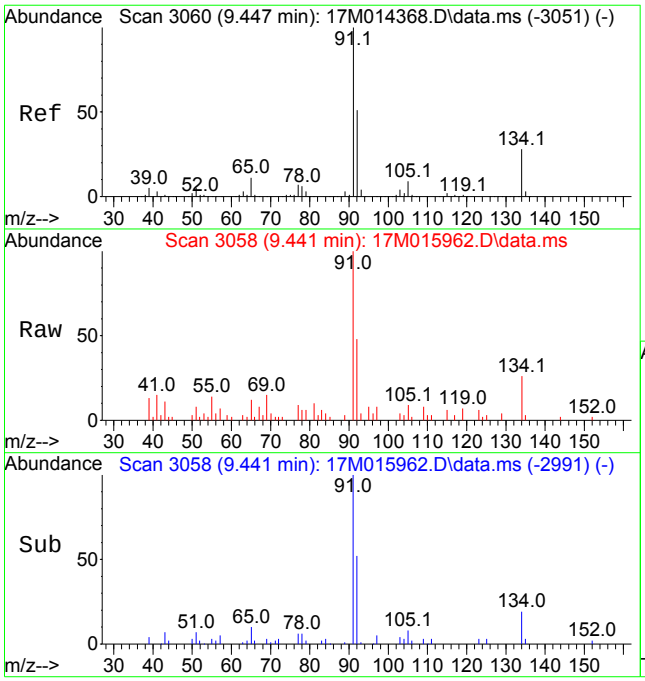


#77
p-Isopropyltoluene
Concen: 0.5759 ug/L m
RT: 9.238 min Scan# 2988
Delta R.T. -0.003 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion:119 Resp: 12202

Ion	Ratio	Lower	Upper
119	100		
134	84.2	16.2	37.8#

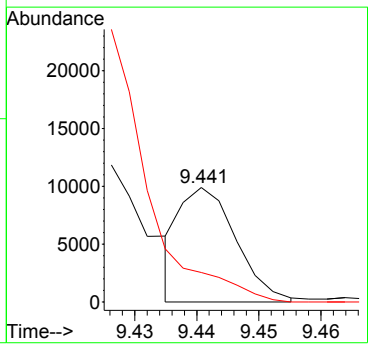


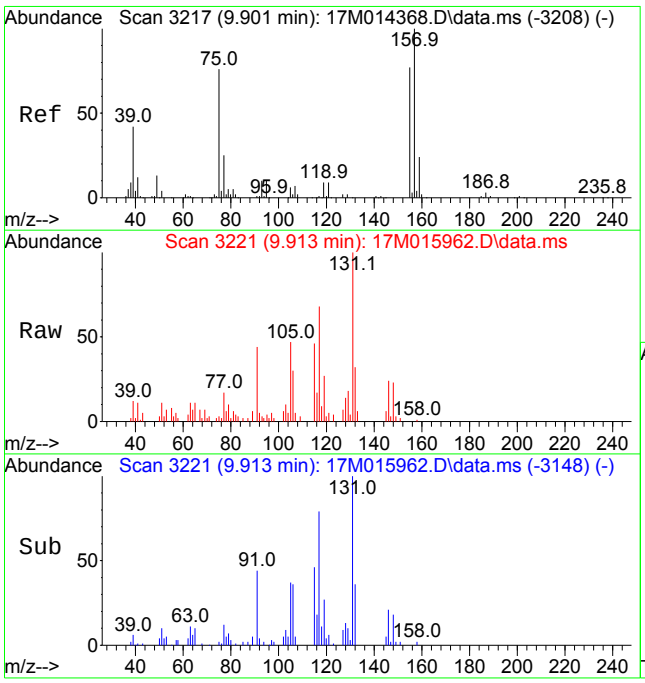


#80
n-Butylbenzene
Concen: 0.3496 ug/L m
RT: 9.441 min Scan# 3058
Delta R.T. -0.006 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 91 Resp: 6258

Ion	Ratio	Lower	Upper
91	100		
134	324.3	16.8	39.2#

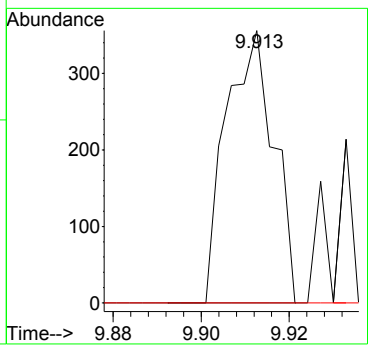


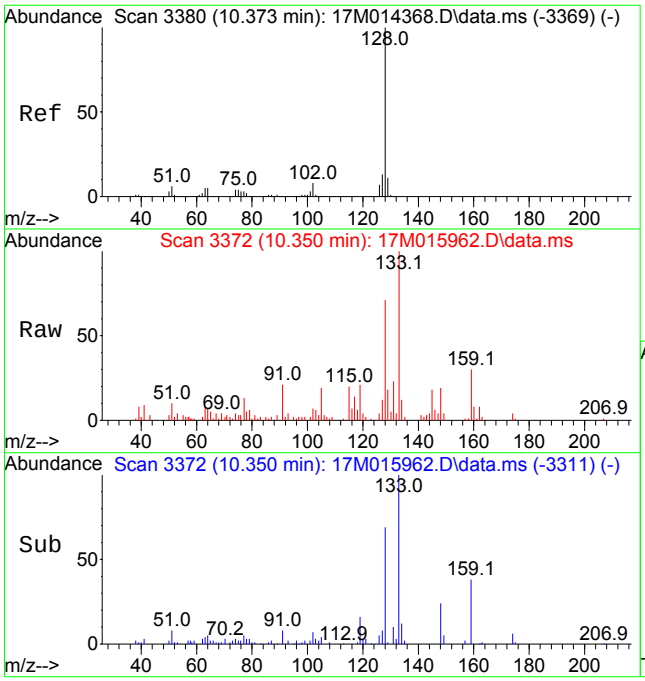


#82
1,2-Dibromo-3-Chloropropane
Concen: 0.3323 ug/L
RT: 9.913 min Scan# 3221
Delta R.T. 0.012 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

Tgt Ion: 75 Resp: 267

Ion	Ratio	Lower	Upper
75	100		
157	0.0	77.0	179.6#

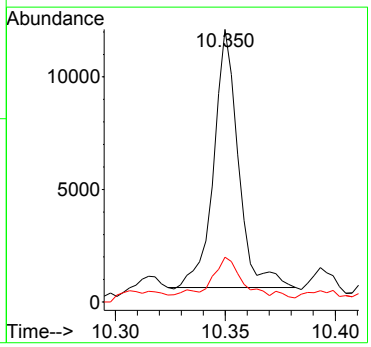




#85
Naphthalene
Concen: 0.5557 ug/L
RT: 10.350 min Scan# 3372
Delta R.T. -0.023 min
Lab File: 17M015962.D
Acq: 22 Oct 2015 20:58

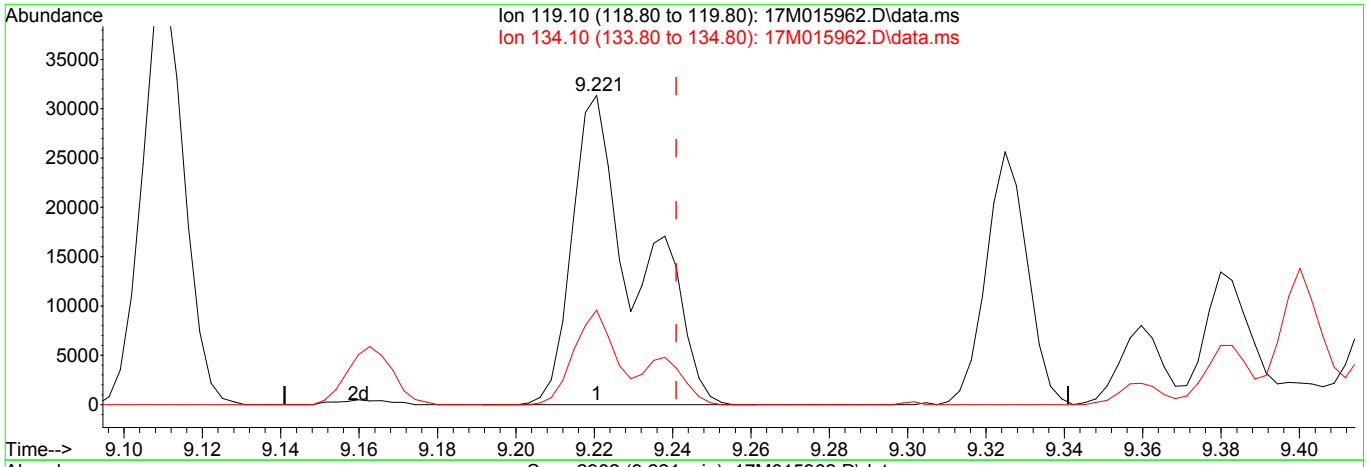
Tgt Ion:128 Resp: 8958

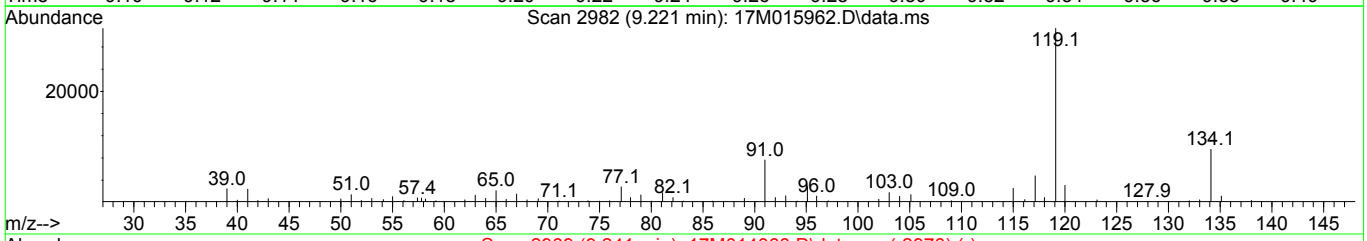
Ion	Ratio	Lower	Upper
128	100		
127	21.0	7.9	18.3#

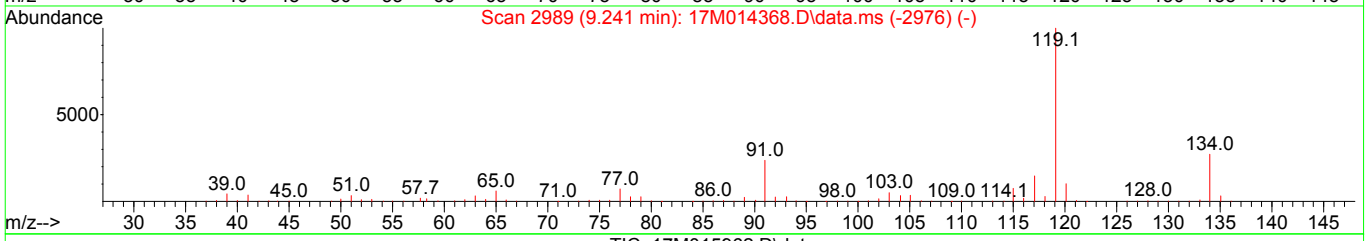


Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015962.D
Acq On : 22 Oct 2015 20:58
Operator : ADC
Sample : L15101278-03 A 826-SPE
Misc : 1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 25 12:50:20 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015962.D\data.ms

(77) p-Isopropyltoluene (T)

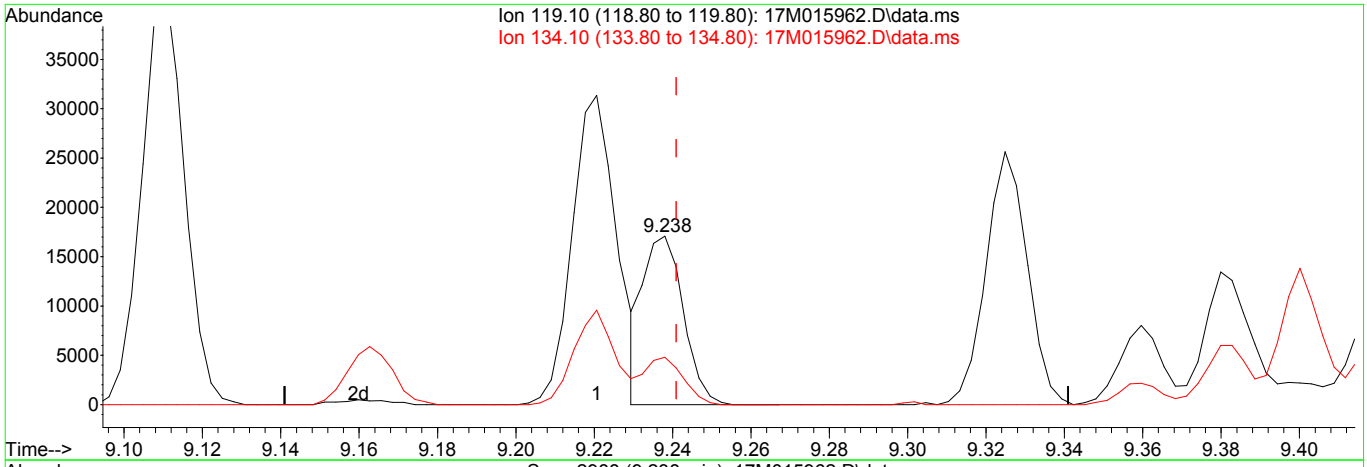
9.221min (-0.020) 1.73 ug/L

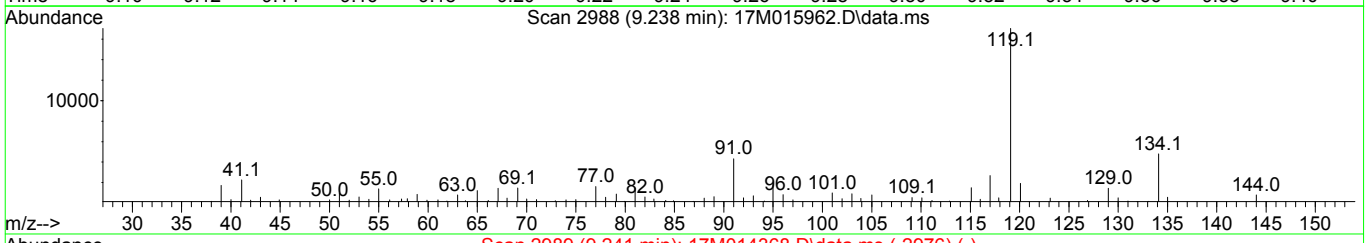
response 36623

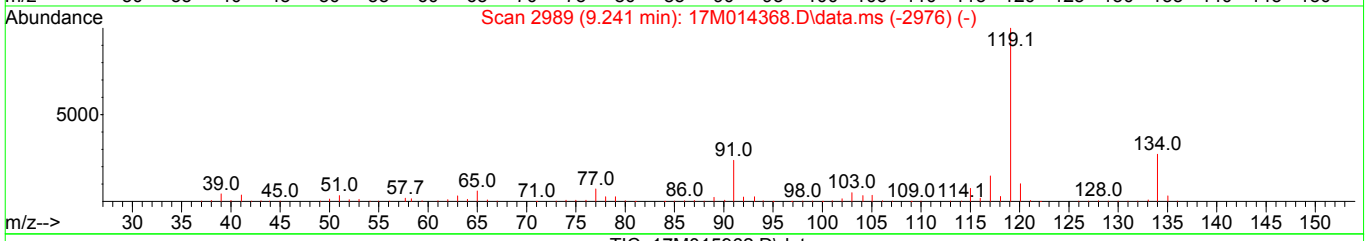
Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.00	28.06
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015962.D
Acq On : 22 Oct 2015 20:58
Operator : ADC
Sample : L15101278-03 A 826-SPE
Misc : 1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 25 12:50:20 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015962.D\data.ms

(77) p-Isopropyltoluene (T)

9.238min (-0.003) 0.58 ug/L mint

response 12202

Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.00	84.22#
0.00	0.00	0.00
0.00	0.00	0.00

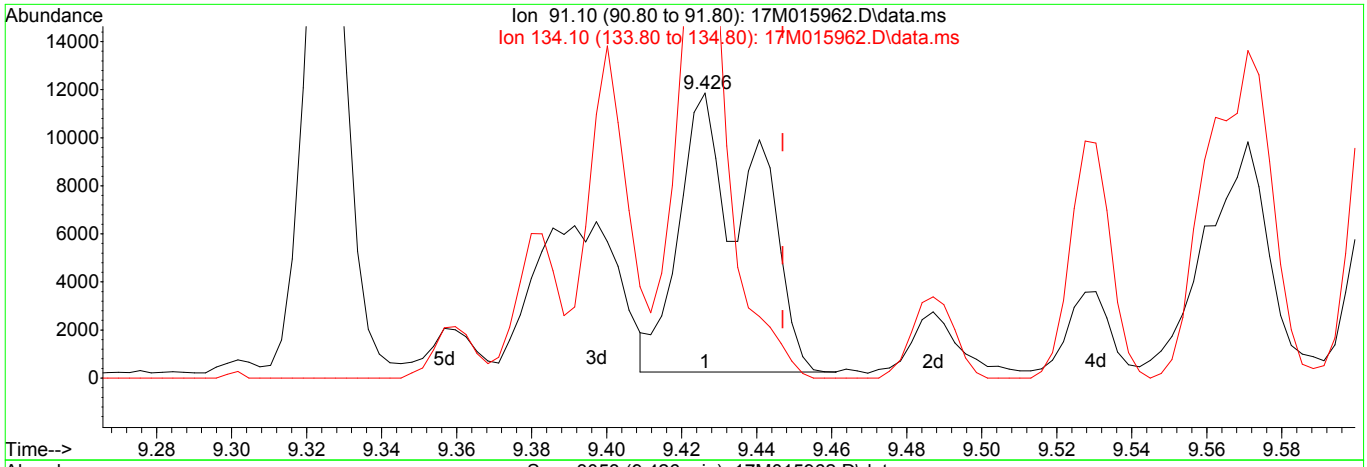
Analyst: 10/25/2015 14:09 Supervisor: 10/26/2015 12:48

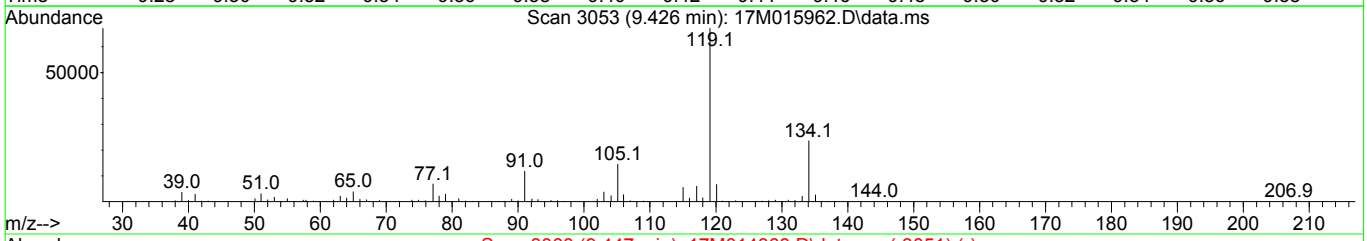
#1 - Data system fails to select correct peak

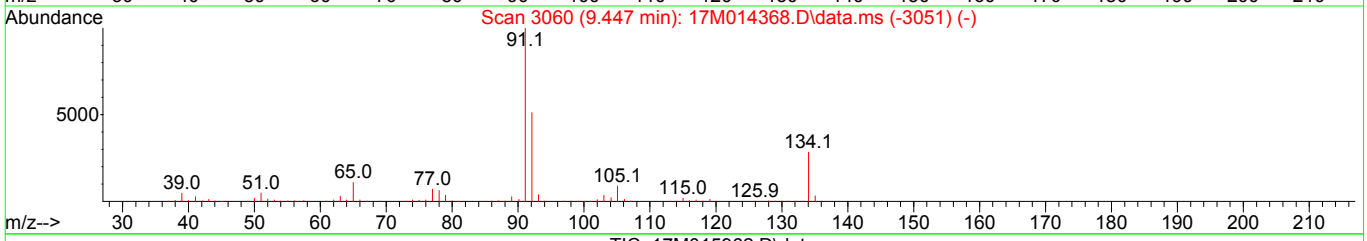
826VMS.M Sun Oct 25 13:26:13 2015 Page: 1

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015962.D
Acq On : 22 Oct 2015 20:58
Operator : ADC
Sample : L15101278-03 A 826-SPE
Misc : 1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 25 12:50:20 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015962.D\data.ms

(80) n-Butylbenzene (T)

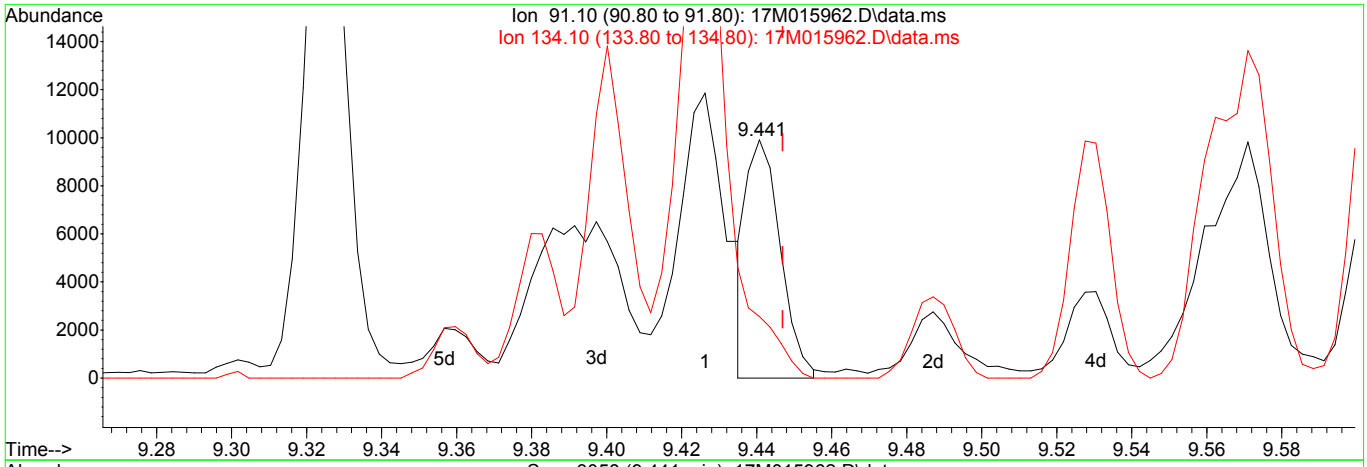
9.426min (-0.021) 0.89 ug/L

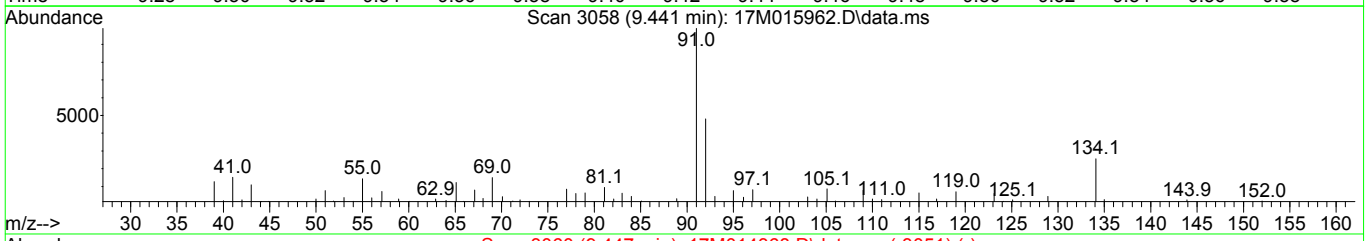
response 15930

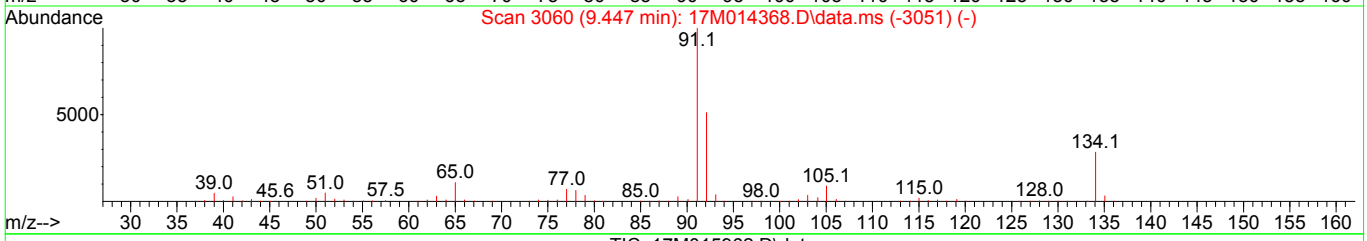
Ion	Exp%	Act%
91.10	100.00	100.00
134.10	28.00	127.40#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015962.D
Acq On : 22 Oct 2015 20:58
Operator : ADC
Sample : L15101278-03 A 826-SPE
Misc : 1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 25 12:50:20 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015962.D\data.ms

(80) n-Butylbenzene (T)

9.441min (-0.006) 0.35 ug/L mint

response 6258

Ion	Exp%	Act%
91.10	100.00	100.00
134.10	28.00	324.30#
0.00	0.00	0.00
0.00	0.00	0.00

Analyst: 10/25/2015 14:10 Supervisor: 10/26/2015 15:22

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

826VMS.M Sun Oct 25 13:26:23 2015 Page: 1

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015963.D
Acq On : 22 Oct 2015 21:18
Operator : ADC
Sample : L15101278-04 A 826-SPE
Misc : 1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 25 12:50:25 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

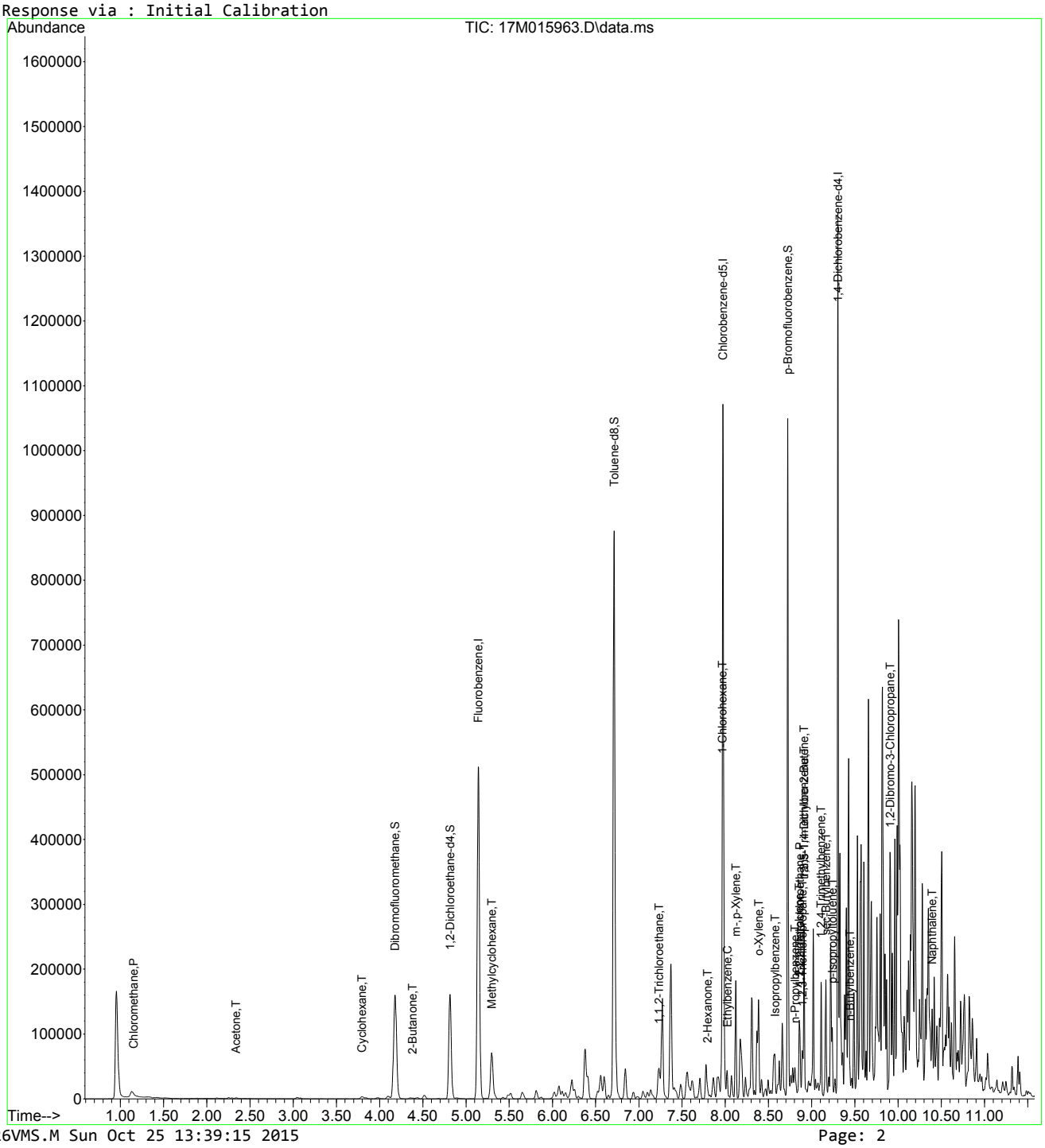
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.141	96	457100	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.973	117	339157	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.302	152	173473	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.177	111	123860	26.4295	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 105.718%			
34) 1,2-Dichloroethane-d4	4.814	65	120709	28.2766	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 113.106%			
47) Toluene-d8	6.713	98	465802	26.7802	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 107.121%			
66) p-Bromofluorobenzene	8.723	95	165563	27.5728	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 110.291%			
Target Compounds						Qvalue
3) Chloromethane	1.152	50	916	0.1967	ug/L #	42
7) Chloroethane	1.421	64	1151	Below Cal	#	50
16) Acetone	2.336	43	1635	2.1197	ug/L	76
25) Cyclohexane	3.795	56	2452	0.3161	ug/L	88
32) 2-Butanone	4.383	43	992	0.7885	ug/L #	33
36) Methylcyclohexane	5.298	83	29162	3.3110	ug/L	88
50) 1,1,2-Trichloroethane	7.232	97	6091	1.4850	ug/L #	65
54) 2-Hexanone	7.793	43	1221	0.5873	ug/L #	23
56) 1-Chlorohexane	7.964	69	21918	16.6135	ug/L #	1
57) Ethylbenzene	8.022	106	5423	0.6925	ug/L	68
59) m-,p-Xylene	8.121	106	29199	3.1407	ug/L	97
60) o-Xylene	8.384	106	17387	1.8605	ug/L	94
63) Isopropylbenzene	8.575	105	16279	0.6743	ug/L	100
65) 1,3,5-Trimethylbenzene	8.911	105	70874	3.4777	ug/L	99
68) n-Propylbenzene	8.804	91	11620	0.4481	ug/L	96
69) 1,1,2,2-Tetrachloroethane	8.862	83	1064	0.2301	ug/L #	47
70) 2-Chlorotoluene	8.856	91	5344	0.3284	ug/L #	41
71) 1,2,3-Trichloropropane	8.894	110	233	0.1823	ug/L #	80
72) trans-1,4-Dichloro-2-B...	8.911	53	4038	4.7473	ug/L #	9
73) 1,2,4-Trimethylbenzene	9.108	105	36773	1.8168	ug/L	99
76) sec-Butylbenzene	9.163	105	44866	1.8029	ug/L	85
77) p-Isopropyltoluene	9.238	119	23261m	1.0785	ug/L	
80) n-Butylbenzene	9.441	91	8089m	0.4439	ug/L	
82) 1,2-Dibromo-3-Chloropr...	9.910	75	1039	1.2702	ug/L #	1
85) Naphthalene	10.393	128	2005	0.1222	ug/L #	38

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

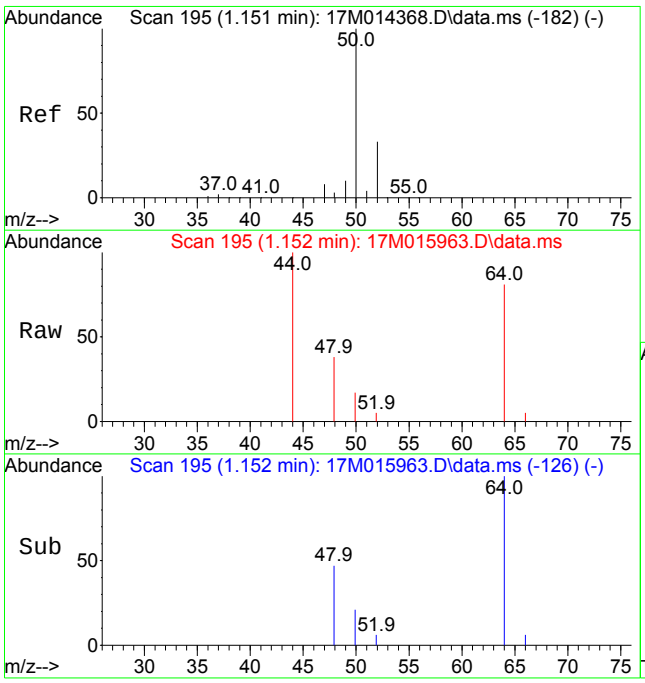
Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015963.D
Acq On : 22 Oct 2015 21:18
Operator : ADC
Sample : L15101278-04 A 826-SPE
Misc : 1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 25 12:50:25 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration



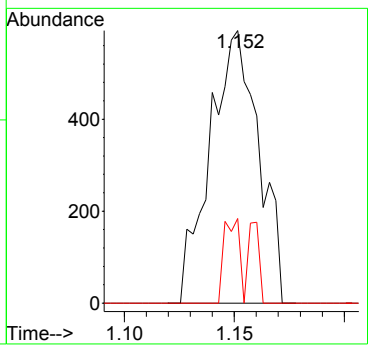
826VMS.M Sun Oct 25 13:39:15 2015 Page: 2

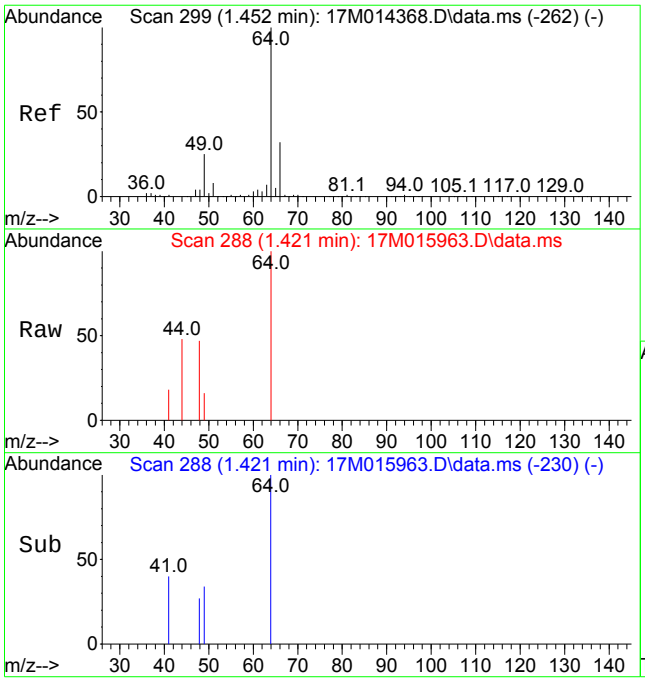


#3
Chloromethane
Concen: 0.1967 ug/L
RT: 1.152 min Scan# 195
Delta R.T. 0.001 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 50 Resp: 916

Ion	Ratio	Lower	Upper
50	100		
52	0.0	19.8	46.2#

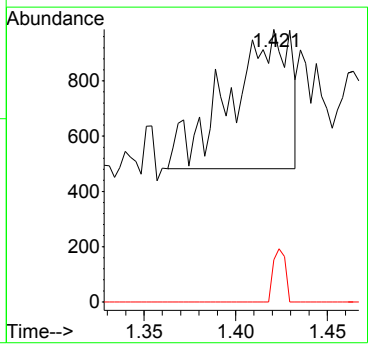


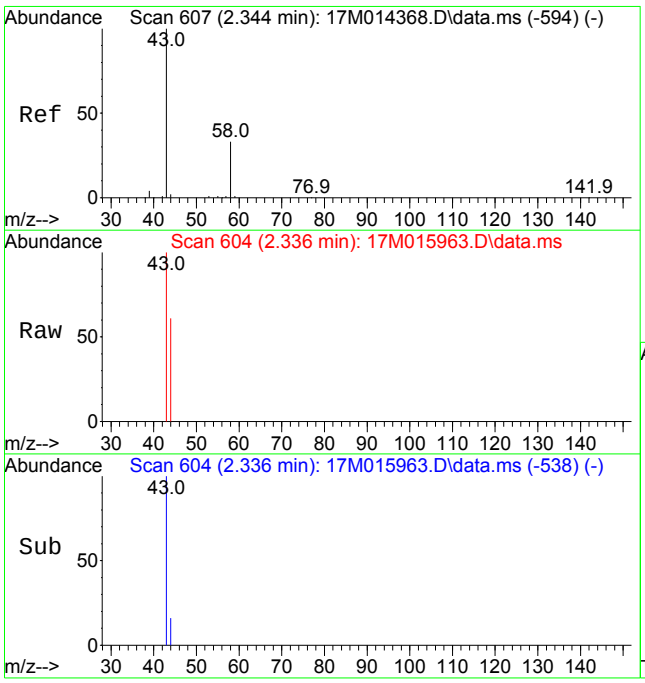


#7
Chloroethane
Concen: Below Cal
RT: 1.421 min Scan# 288
Delta R.T. -0.031 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 64 Resp: 1151

Ion	Ratio	Lower	Upper
64	100		
49	0.0	15.2	35.4#

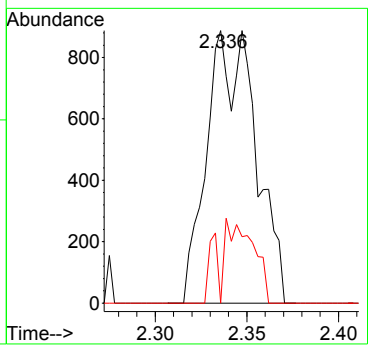


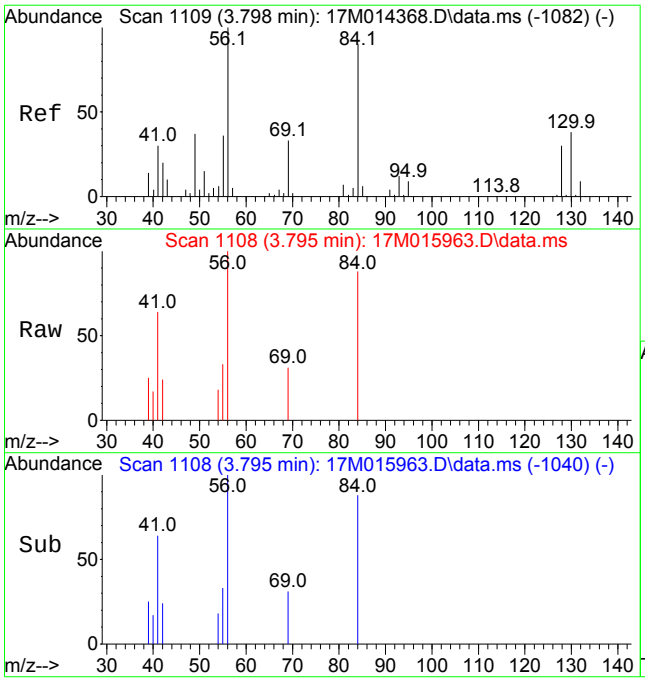


#16
Acetone
Concen: 2.1197 ug/L
RT: 2.336 min Scan# 604
Delta R.T. -0.008 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 43 Resp: 1635

Ion	Ratio	Lower	Upper
43	100		
58	22.3	21.7	50.7

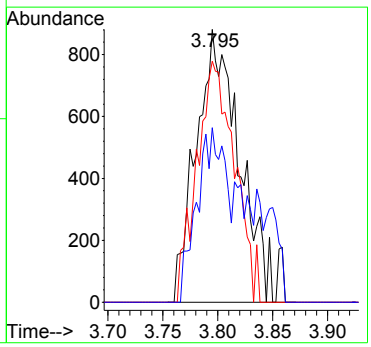


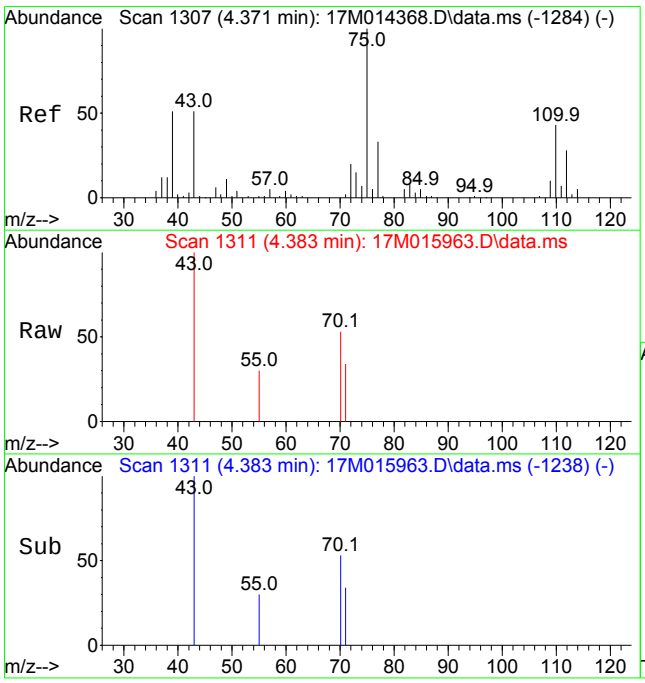


#25
Cyclohexane
Concen: 0.3161 ug/L
RT: 3.795 min Scan# 1108
Delta R.T. -0.003 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 56 Resp: 2452

Ion	Ratio	Lower	Upper
56	100		
84	75.9	71.4	107.0
41	56.6	41.2	61.8

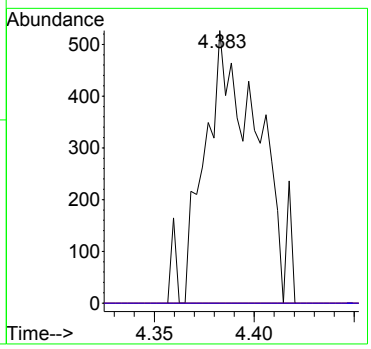


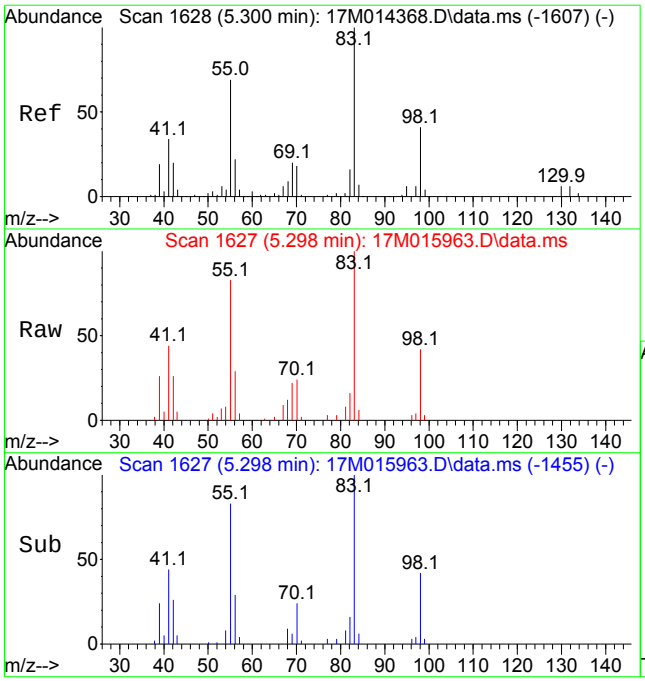


#32
2-Butanone
Concen: 0.7885 ug/L
RT: 4.383 min Scan# 1311
Delta R.T. 0.012 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 43 Resp: 992

Ion	Ratio	Lower	Upper
43	100		
72	0.0	42.5	63.7#
57	0.0	8.2	12.2#

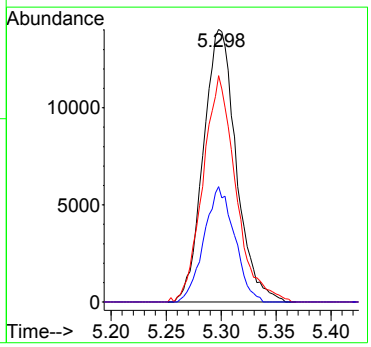


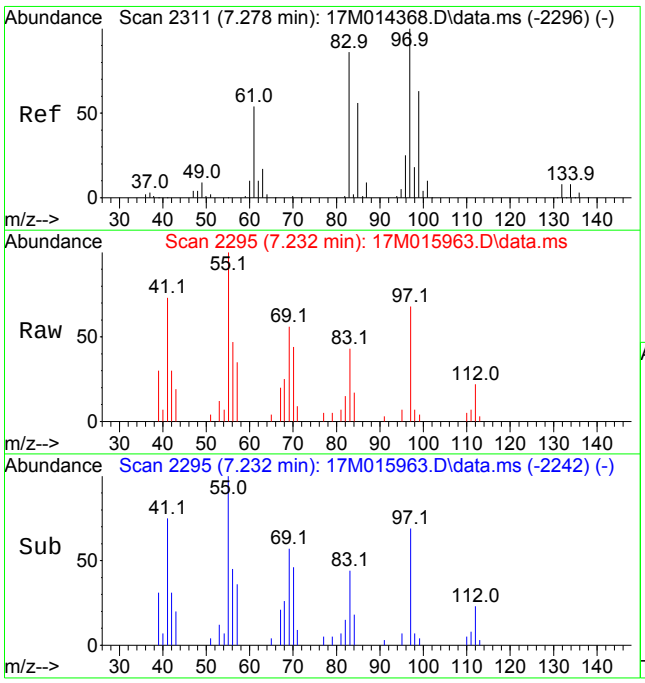


#36
Methylcyclohexane
Concen: 3.3110 ug/L
RT: 5.298 min Scan# 1627
Delta R.T. -0.002 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 83 Resp: 29162

Ion	Ratio	Lower	Upper
83	100		
55	83.1	55.8	83.8
98	39.3	34.2	51.2

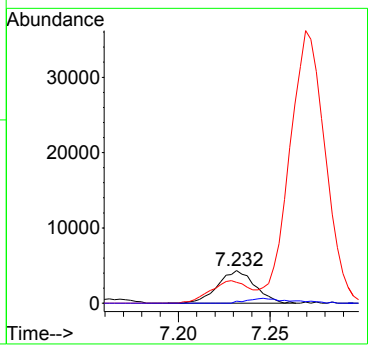


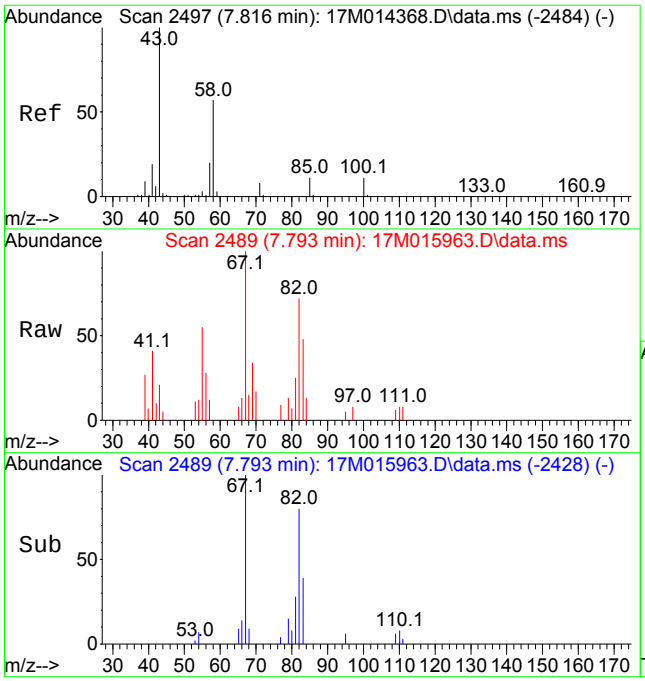


#50
1,1,2-Trichloroethane
Concen: 1.4850 ug/L
RT: 7.232 min Scan# 2295
Delta R.T. -0.046 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 97 Resp: 6091

Ion	Ratio	Lower	Upper
97	100		
83	69.2	51.8	120.8
99	18.2	37.9	88.3#

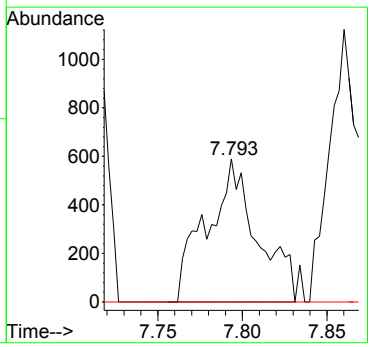


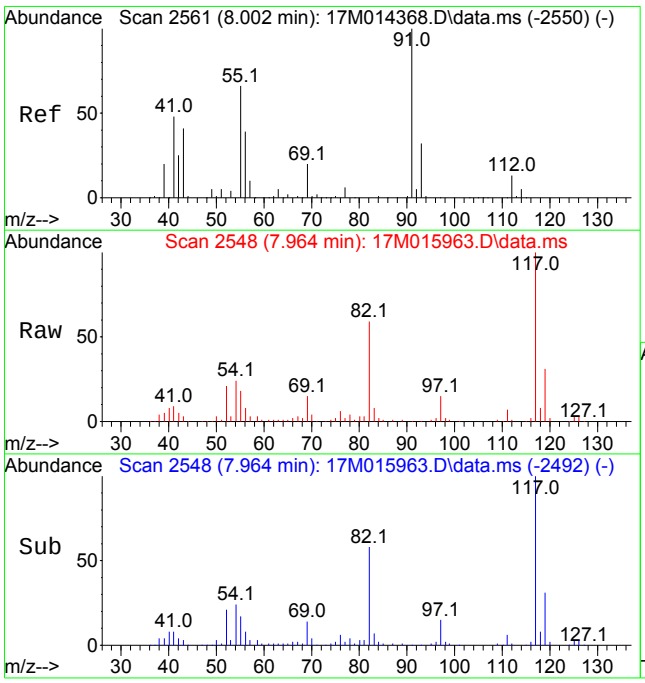


#54
2-Hexanone
Concen: 0.5873 ug/L
RT: 7.793 min Scan# 2489
Delta R.T. -0.023 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 43 Resp: 1221

Ion	Ratio	Lower	Upper
43	100		
58	0.0	44.8	67.2#

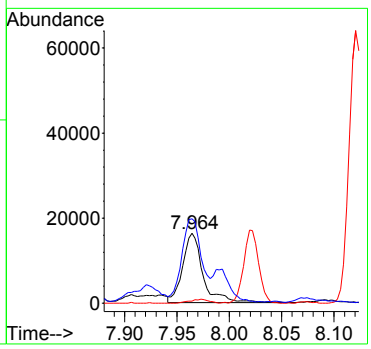


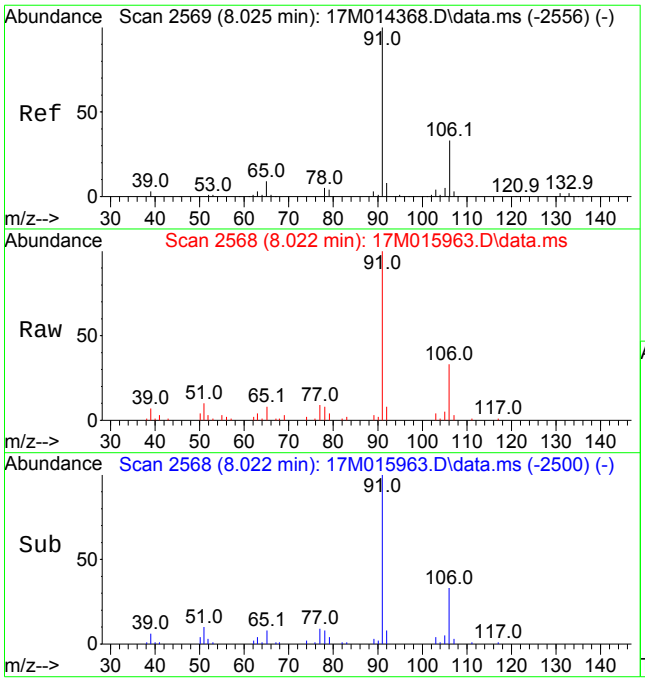


#56
1-Chlorohexane
Concen: 16.6135 ug/L
RT: 7.964 min Scan# 2548
Delta R.T. -0.038 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 69 Resp: 21918

Ion	Ratio	Lower	Upper
69	100		
91	5.7	1863.4	2795.0#
55	103.9	275.6	413.4#

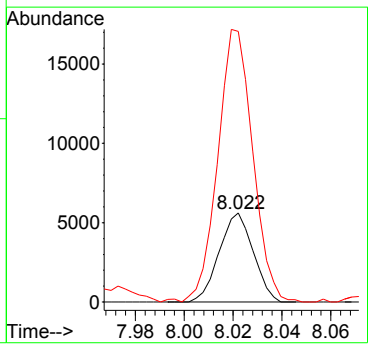


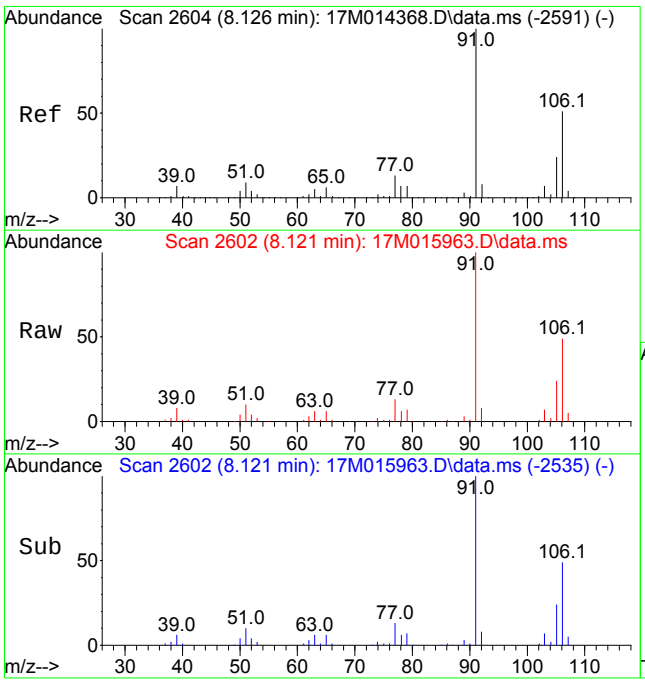


#57
Ethylbenzene
Concen: 0.6925 ug/L
RT: 8.022 min Scan# 2568
Delta R.T. -0.003 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion:106 Resp: 5423

Ion	Ratio	Lower	Upper
106	100		
91	314.6	311.7	467.5

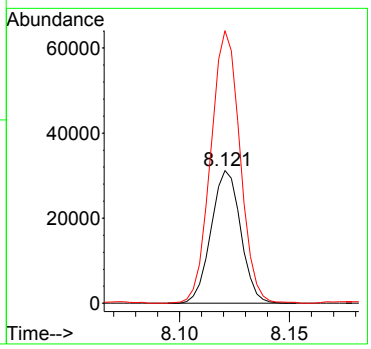


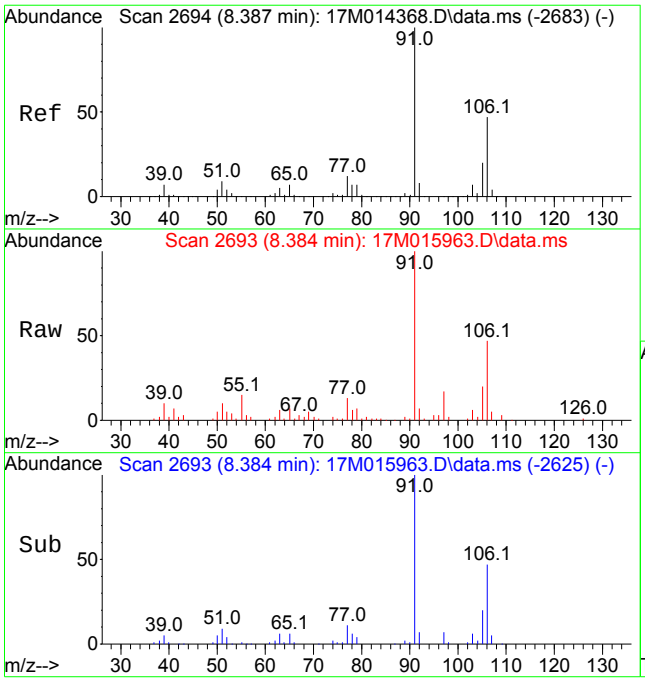


#59
m-,p-Xylene
Concen: 3.1407 ug/L
RT: 8.121 min Scan# 2602
Delta R.T. -0.005 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion:106 Resp: 29199

Ion	Ratio	Lower	Upper
106	100		
91	203.4	119.0	277.6

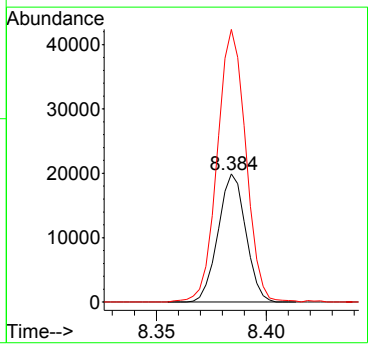


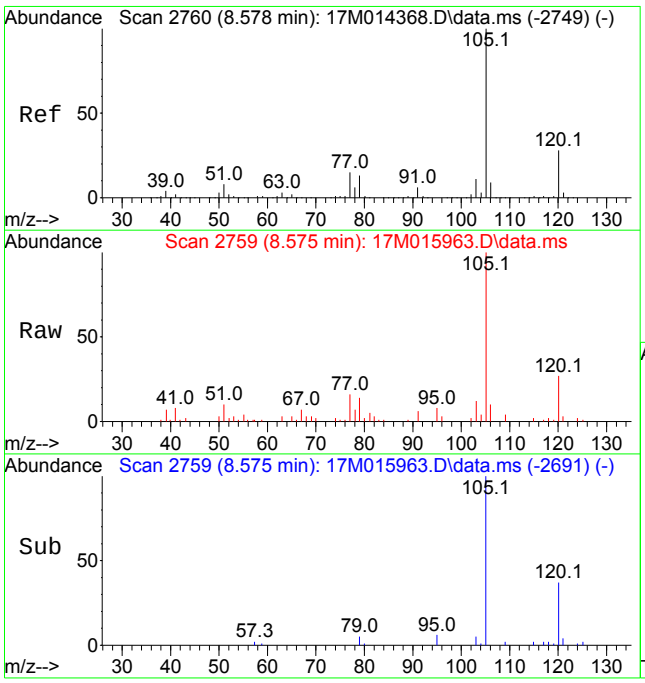


#60
o-Xylene
Concen: 1.8605 ug/L
RT: 8.384 min Scan# 2693
Delta R.T. -0.003 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion:106 Resp: 17387

Ion	Ratio	Lower	Upper
106	100		
91	220.2	126.2	294.4

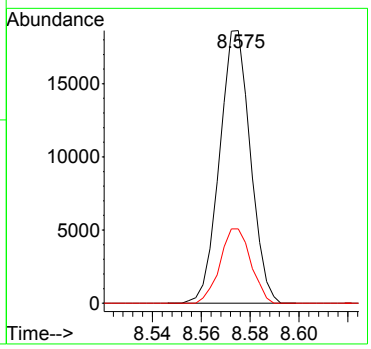


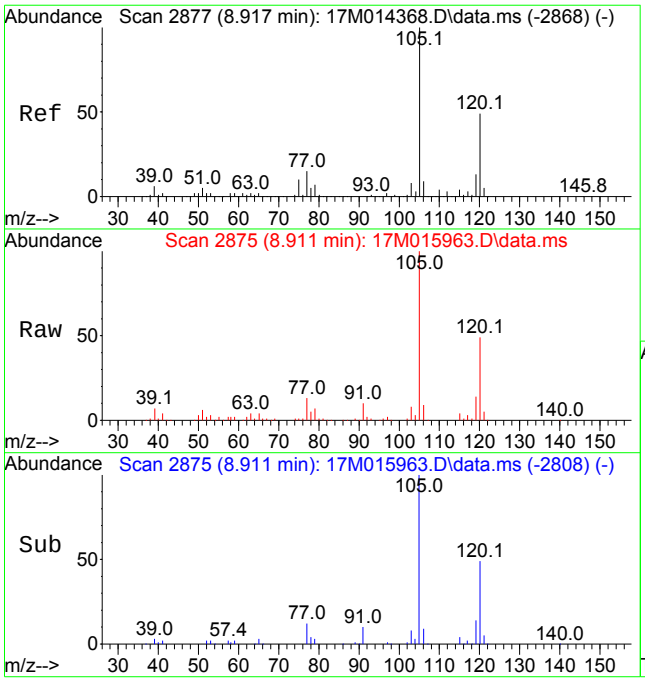


#63
Isopropylbenzene
Concen: 0.6743 ug/L
RT: 8.575 min Scan# 2759
Delta R.T. -0.003 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion:105 Resp: 16279

Ion	Ratio	Lower	Upper
105	100		
120	27.2	16.4	38.4

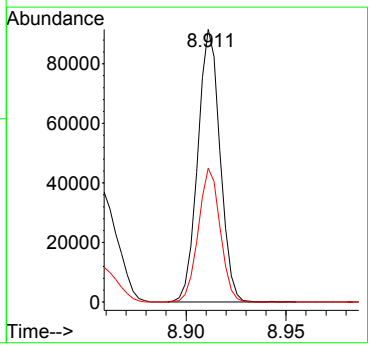


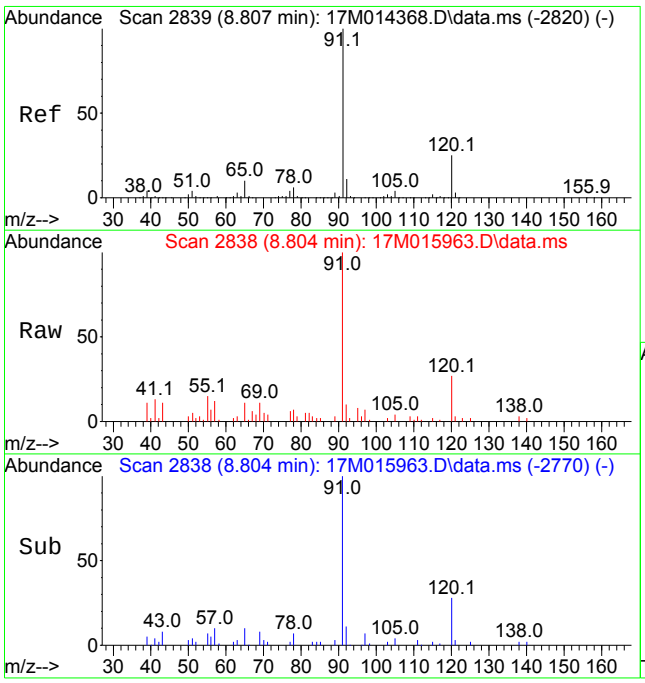


#65
1,3,5-Trimethylbenzene
Concen: 3.4777 ug/L
RT: 8.911 min Scan# 2875
Delta R.T. -0.006 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion:105 Resp: 70874

Ion	Ratio	Lower	Upper
105	100		
120	48.0	39.2	58.8

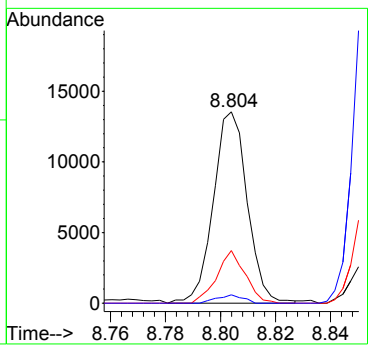


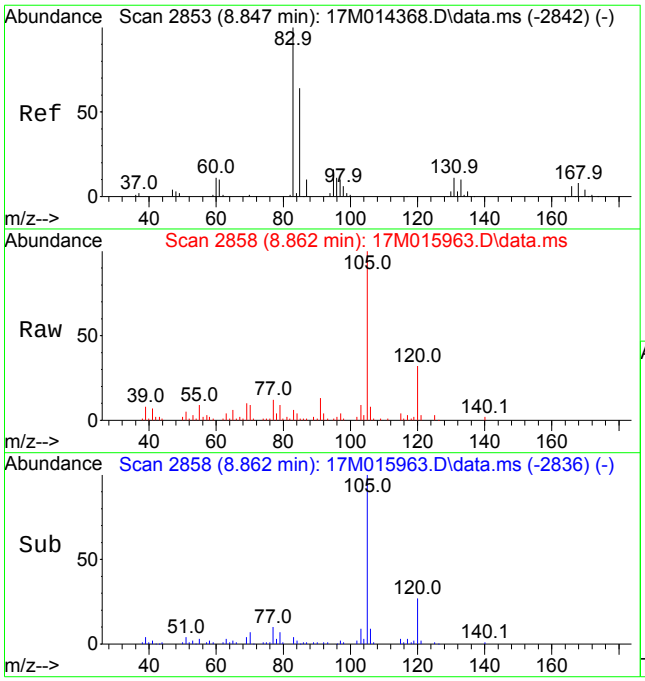


#68
n-Propylbenzene
Concen: 0.4481 ug/L
RT: 8.804 min Scan# 2838
Delta R.T. -0.003 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 91 Resp: 11620

Ion	Ratio	Lower	Upper
91	100		
120	23.0	15.0	35.0
105	3.4	2.3	5.3

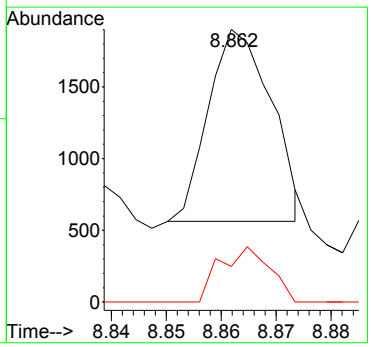


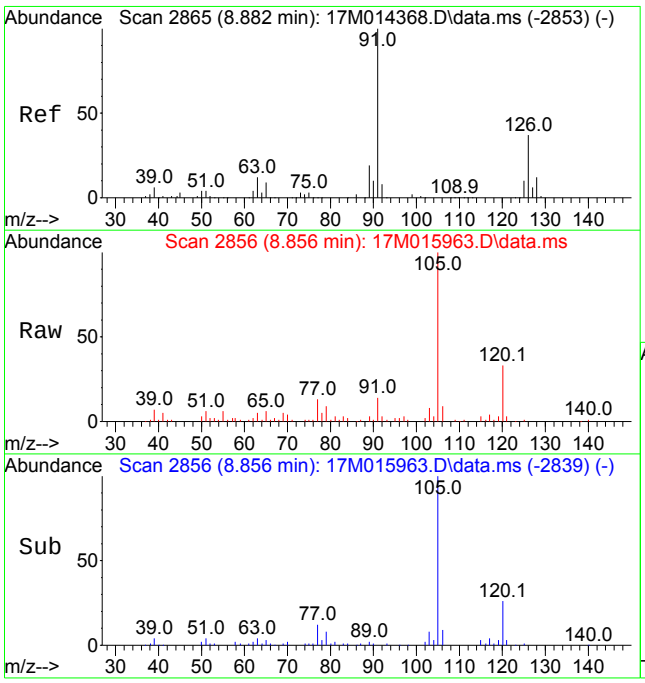


#69
1,1,2,2-Tetrachloroethane
Concen: 0.2301 ug/L
RT: 8.862 min Scan# 2858
Delta R.T. 0.015 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 83 Resp: 1064

Ion	Ratio	Lower	Upper
83	100		
85	22.7	51.8	77.8#

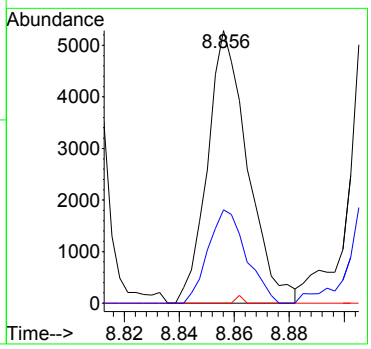


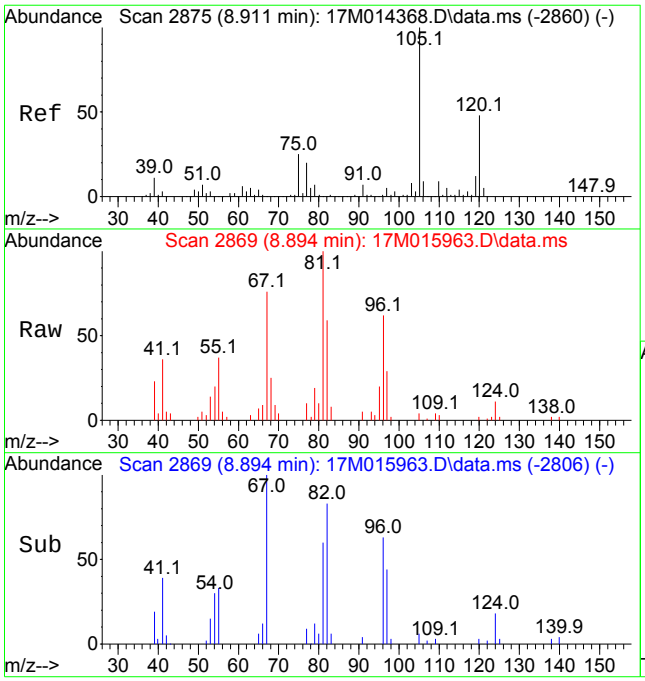


#70
2-Chlorotoluene
Concen: 0.3284 ug/L
RT: 8.856 min Scan# 2856
Delta R.T. -0.026 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 91 Resp: 5344

Ion	Ratio	Lower	Upper
91	100		
126	0.0	22.4	52.2#
63	32.6	7.7	18.1#

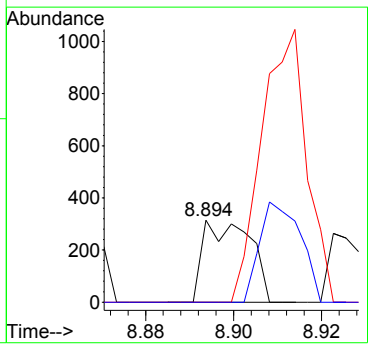


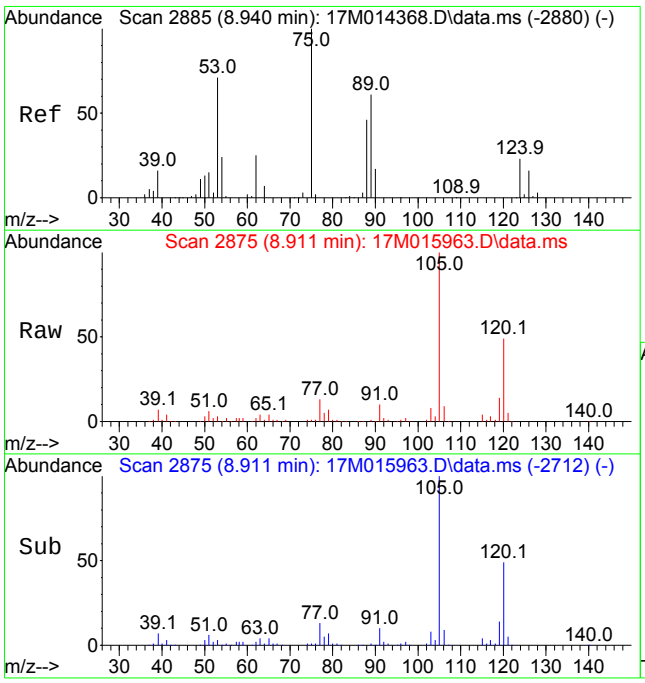


#71
1,2,3-Trichloropropane
Concen: 0.1823 ug/L
RT: 8.894 min Scan# 2869
Delta R.T. -0.017 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion:110 Resp: 233

Ion	Ratio	Lower	Upper
110	100		
75	318.5	230.6	346.0
61	106.4	59.5	89.3#

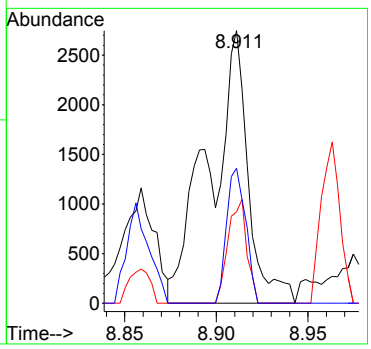


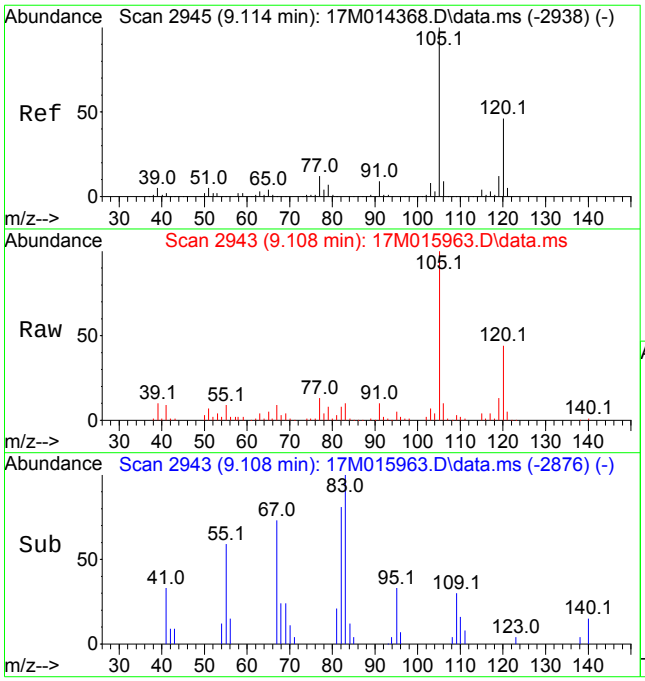


#72
trans-1,4-Dichloro-2-Butene
Concen: 4.7473 ug/L
RT: 8.911 min Scan# 2875
Delta R.T. -0.029 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 53 Resp: 4038

Ion	Ratio	Lower	Upper
53	100		
75	18.4	151.4	151.4#
89	24.4	70.1	105.1#

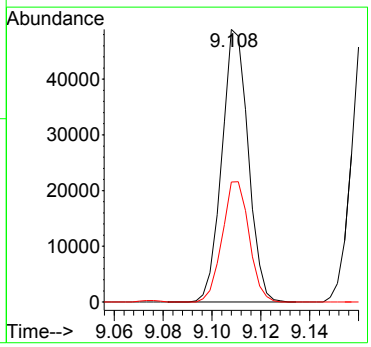


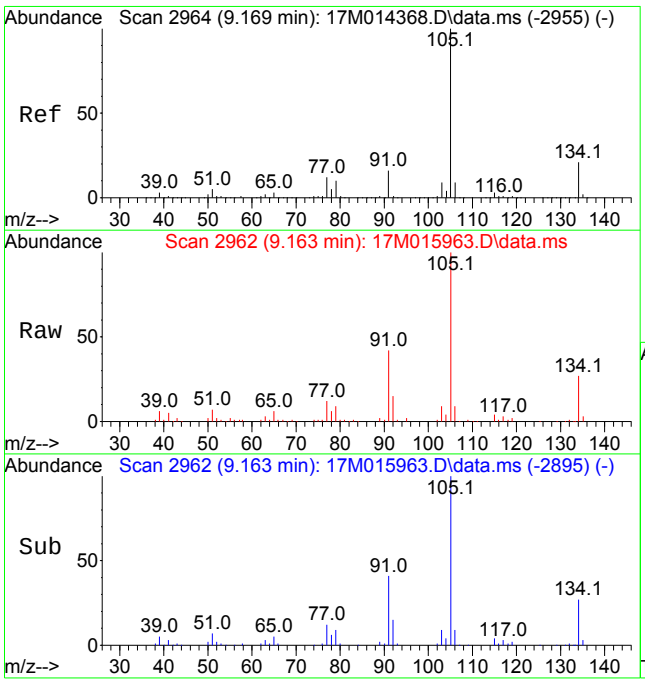


#73
1,2,4-Trimethylbenzene
Concen: 1.8168 ug/L
RT: 9.108 min Scan# 2943
Delta R.T. -0.006 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion:105 Resp: 36773

Ion	Ratio	Lower	Upper
105	100		
120	45.0	36.6	55.0

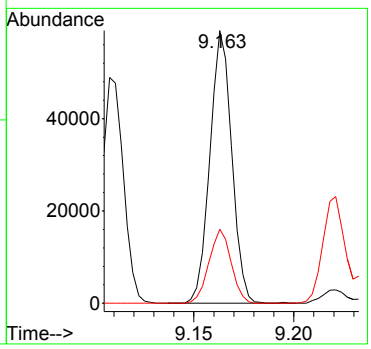


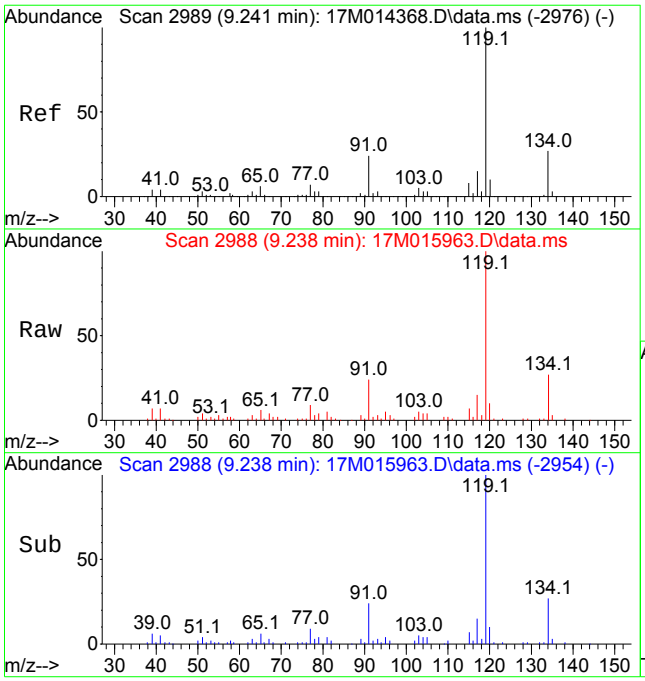


#76
sec-Butylbenzene
Concen: 1.8029 ug/L
RT: 9.163 min Scan# 2962
Delta R.T. -0.006 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion:105 Resp: 44866

Ion	Ratio	Lower	Upper
105	100		
134	27.4	12.3	28.7

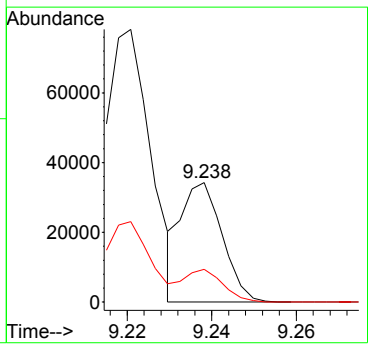


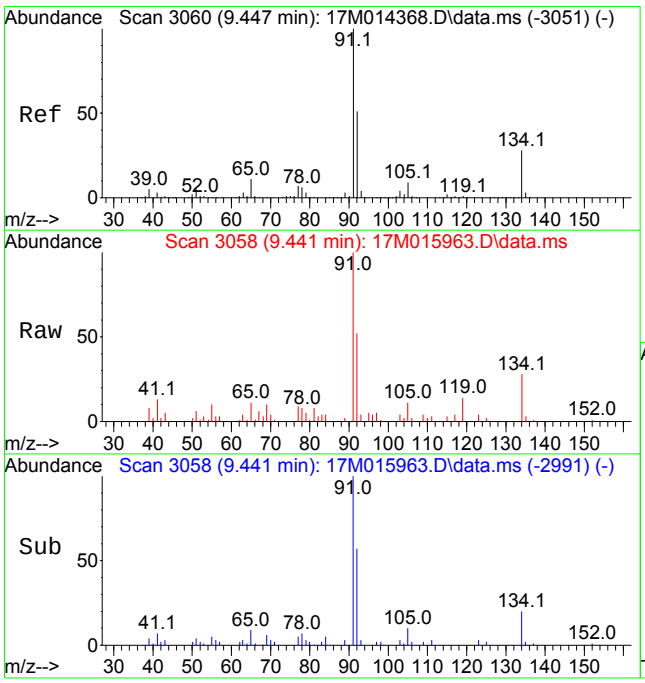


#77
p-Isopropyltoluene
Concen: 1.0785 ug/L m
RT: 9.238 min Scan# 2988
Delta R.T. -0.003 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion:119 Resp: 23261

Ion	Ratio	Lower	Upper
119	100		
134	102.1	16.2	37.8#

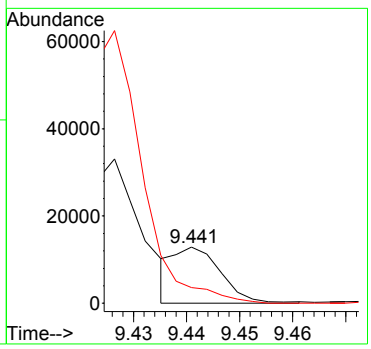


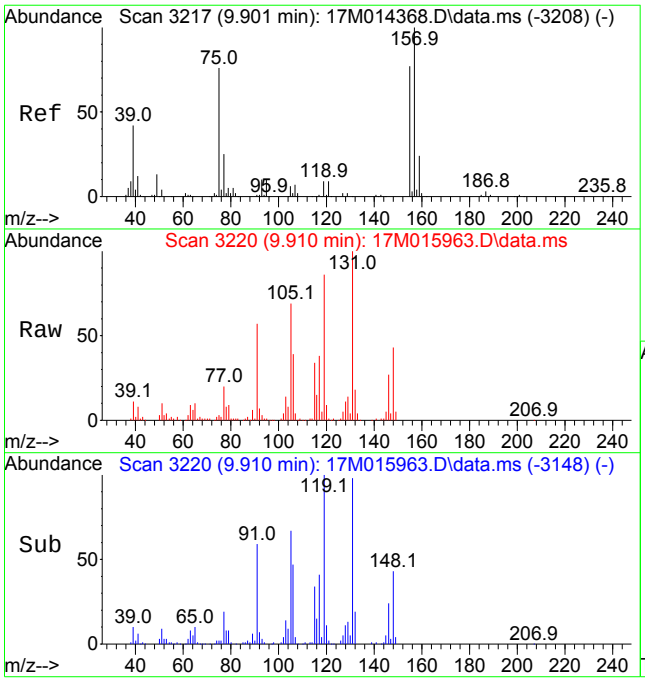


#80
n-Butylbenzene
Concen: 0.4439 ug/L m
RT: 9.441 min Scan# 3058
Delta R.T. -0.006 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 91 Resp: 8089

Ion	Ratio	Lower	Upper
91	100		
134	617.4	16.8	39.2#

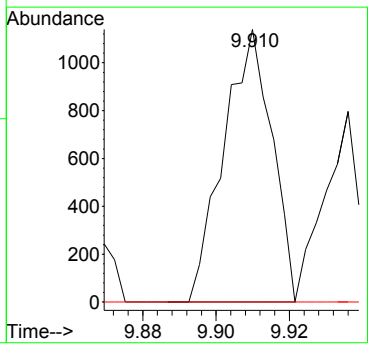


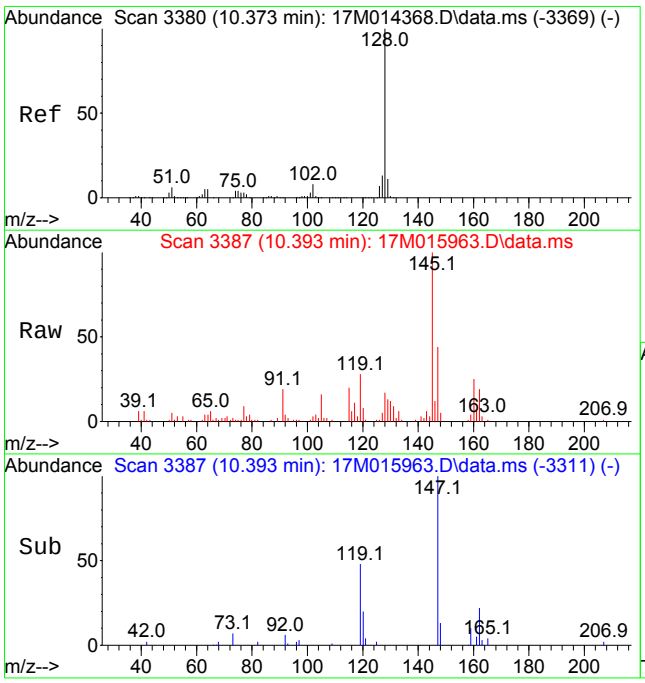


#82
1,2-Dibromo-3-Chloropropane
Concen: 1.2702 ug/L
RT: 9.910 min Scan# 3220
Delta R.T. 0.009 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

Tgt Ion: 75 Resp: 1039

Ion	Ratio	Lower	Upper
75	100		
157	0.0	77.0	179.6#

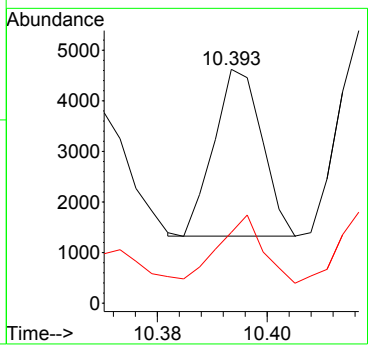




#85
Naphthalene
Concen: 0.1222 ug/L
RT: 10.393 min Scan# 3387
Delta R.T. 0.020 min
Lab File: 17M015963.D
Acq: 22 Oct 2015 21:18

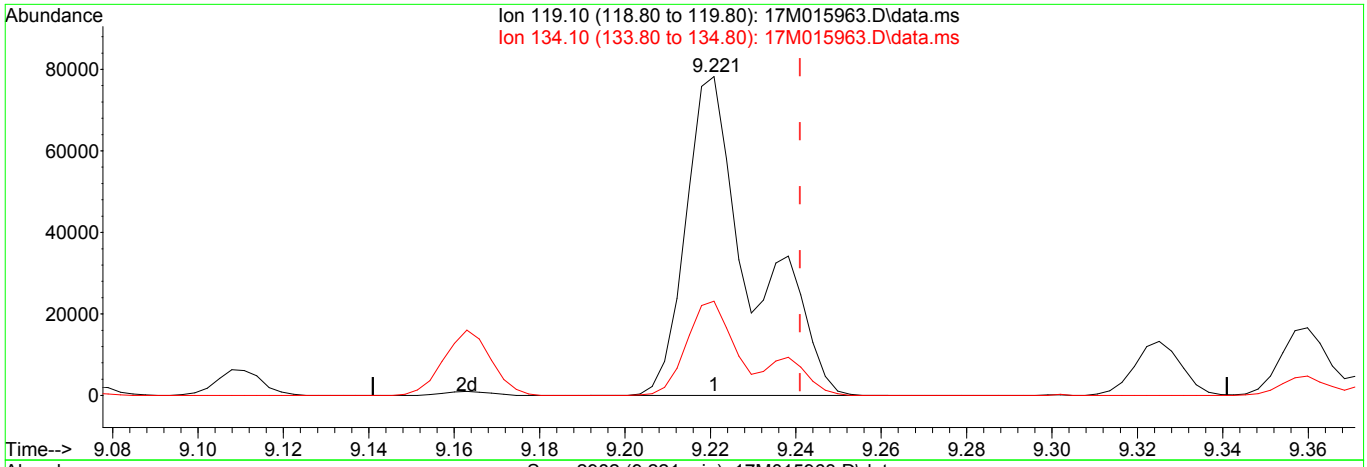
Tgt Ion:128 Resp: 2005

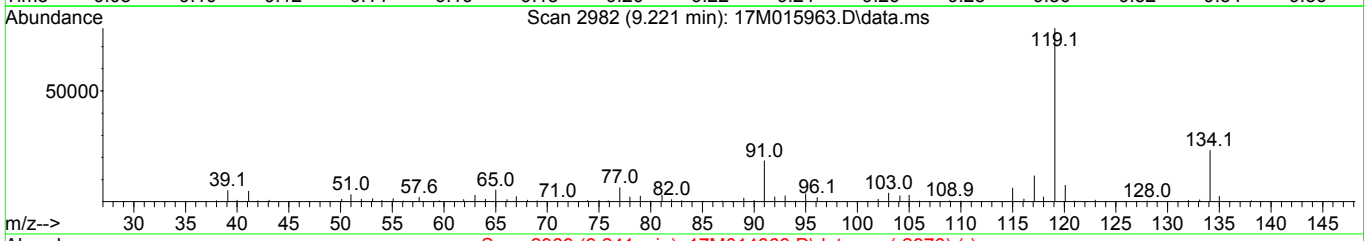
Ion	Ratio	Lower	Upper
128	100		
127	37.8	7.9	18.3#

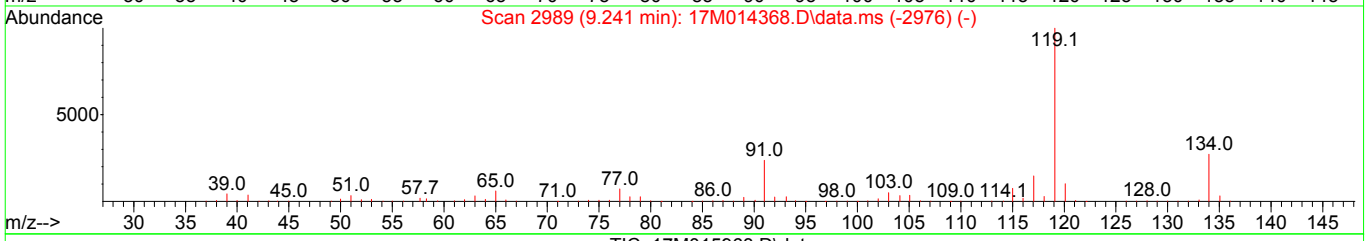


Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015963.D
Acq On : 22 Oct 2015 21:18
Operator : ADC
Sample : L15101278-04 A 826-SPE
Misc : 1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 25 12:50:25 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015963.D\data.ms

(77) p-Isopropyltoluene (T)

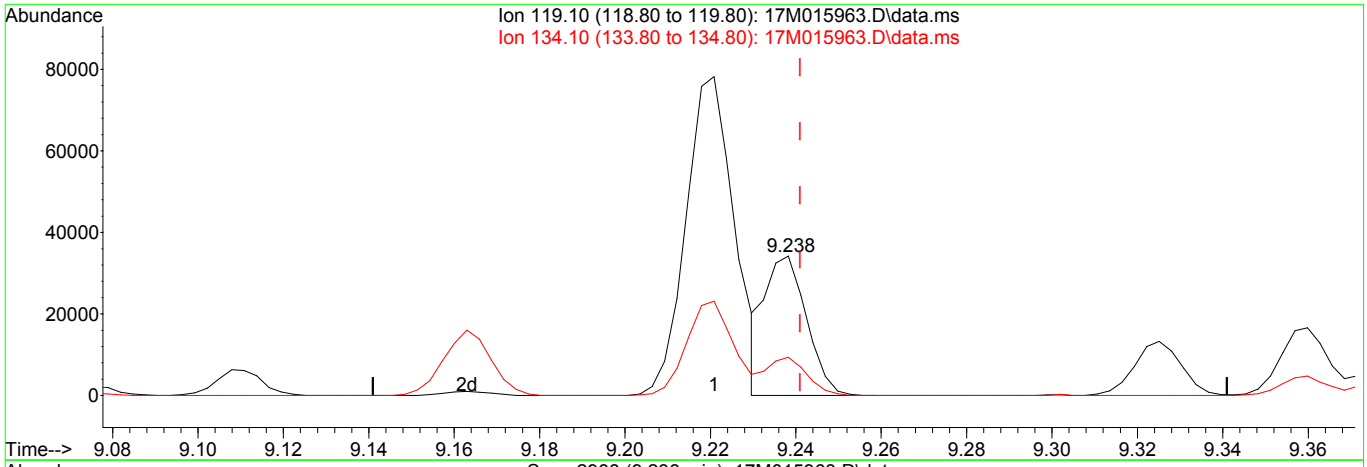
9.221min (-0.020) 3.91 ug/L

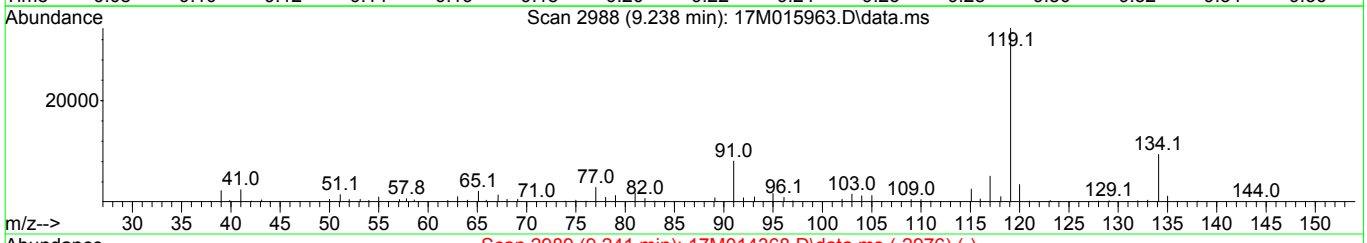
response 84356

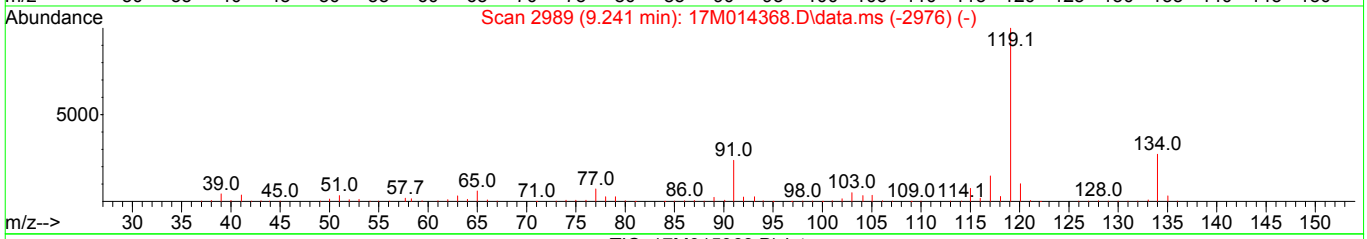
Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.00	28.16
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015963.D
Acq On : 22 Oct 2015 21:18
Operator : ADC
Sample : L15101278-04 A 826-SPE
Misc : 1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 25 12:50:25 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015963.D\data.ms

(77) p-Isopropyltoluene (T)

9.238min (-0.003) 1.08 ug/L mint

response 23261

Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.00	102.11#
0.00	0.00	0.00
0.00	0.00	0.00

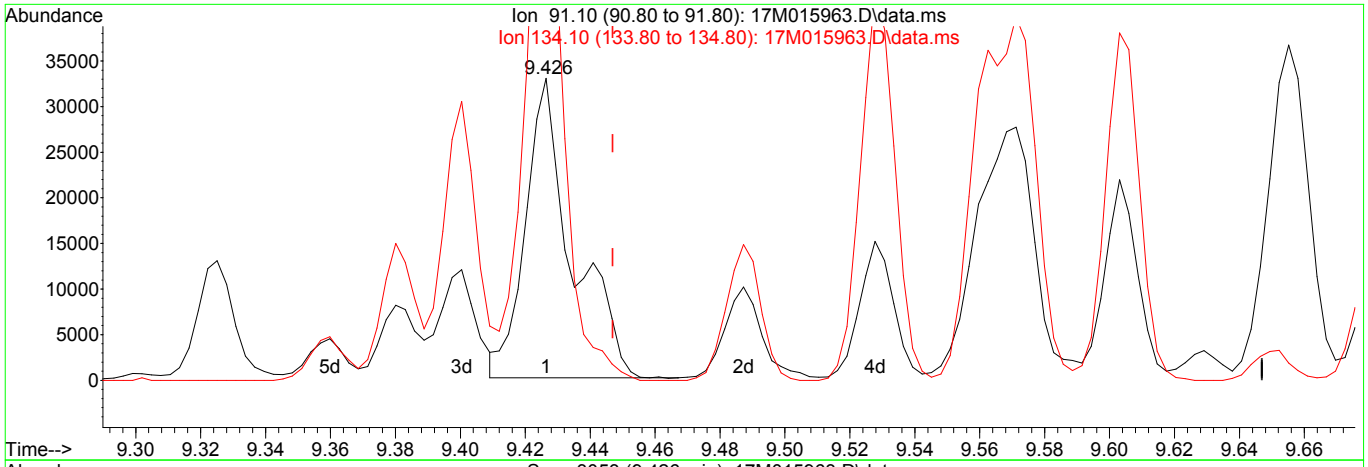
Analyst: 10/25/2015 14:10 Supervisor: 10/26/2015 15:22

#1 - Data system fails to select correct peak

826VMS.M Sun Oct 25 13:38:45 2015 Page: 1

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015963.D
Acq On : 22 Oct 2015 21:18
Operator : ADC
Sample : L15101278-04 A 826-SPE
Misc : 1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 25 12:50:25 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration



TIC: 17M015963.D\data.ms

(80) n-Butylbenzene (T)

9.426min (-0.021) 1.80 ug/L

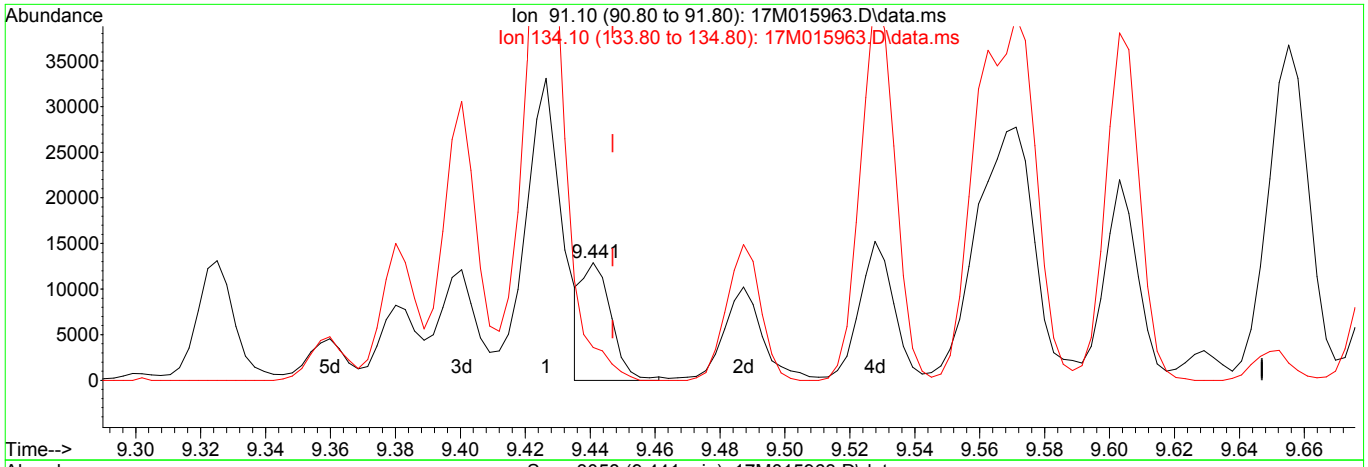
response 32799

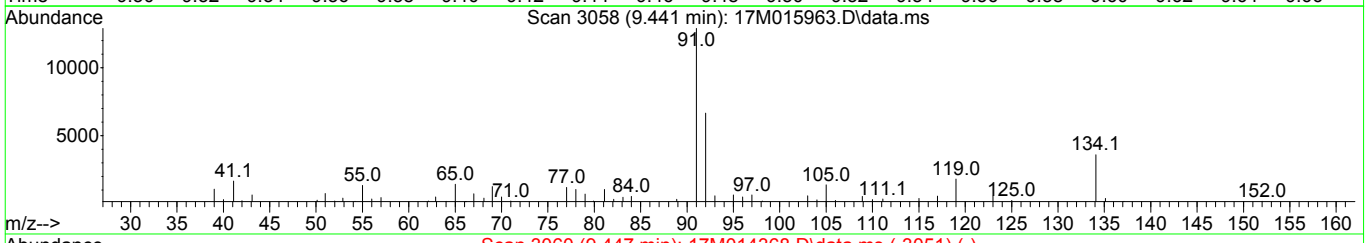
Ion	Exp%	Act%
91.10	100.00	100.00
134.10	28.00	152.27#
0.00	0.00	0.00
0.00	0.00	0.00

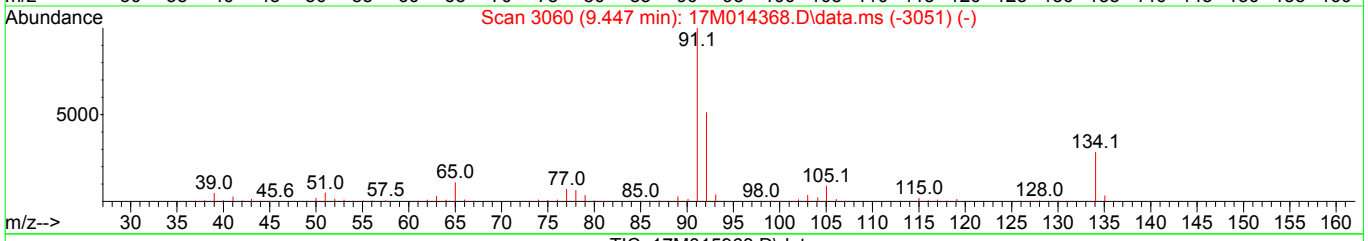
Quantitation Report (Qedit)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015963.D
Acq On : 22 Oct 2015 21:18
Operator : ADC
Sample : L15101278-04 A 826-SPE
Misc : 1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 25 12:50:25 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015963.D\data.ms

(80) n-Butylbenzene (T)

9.441min (-0.006) 0.44 ug/L mint

response 8089

Ion	Exp%	Act%
91.10	100.00	100.00
134.10	28.00	617.41#
0.00	0.00	0.00
0.00	0.00	0.00

Analyst: 10/25/2015 14:10 Supervisor: 10/26/2015 15:22

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

826VMS.M Sun Oct 25 13:38:58 2015 Page: 1

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015964.D
Acq On : 22 Oct 2015 21:38
Operator : ADC
Sample : L15101278-05 A 826-SPE
Misc : 1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 25 12:50:30 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

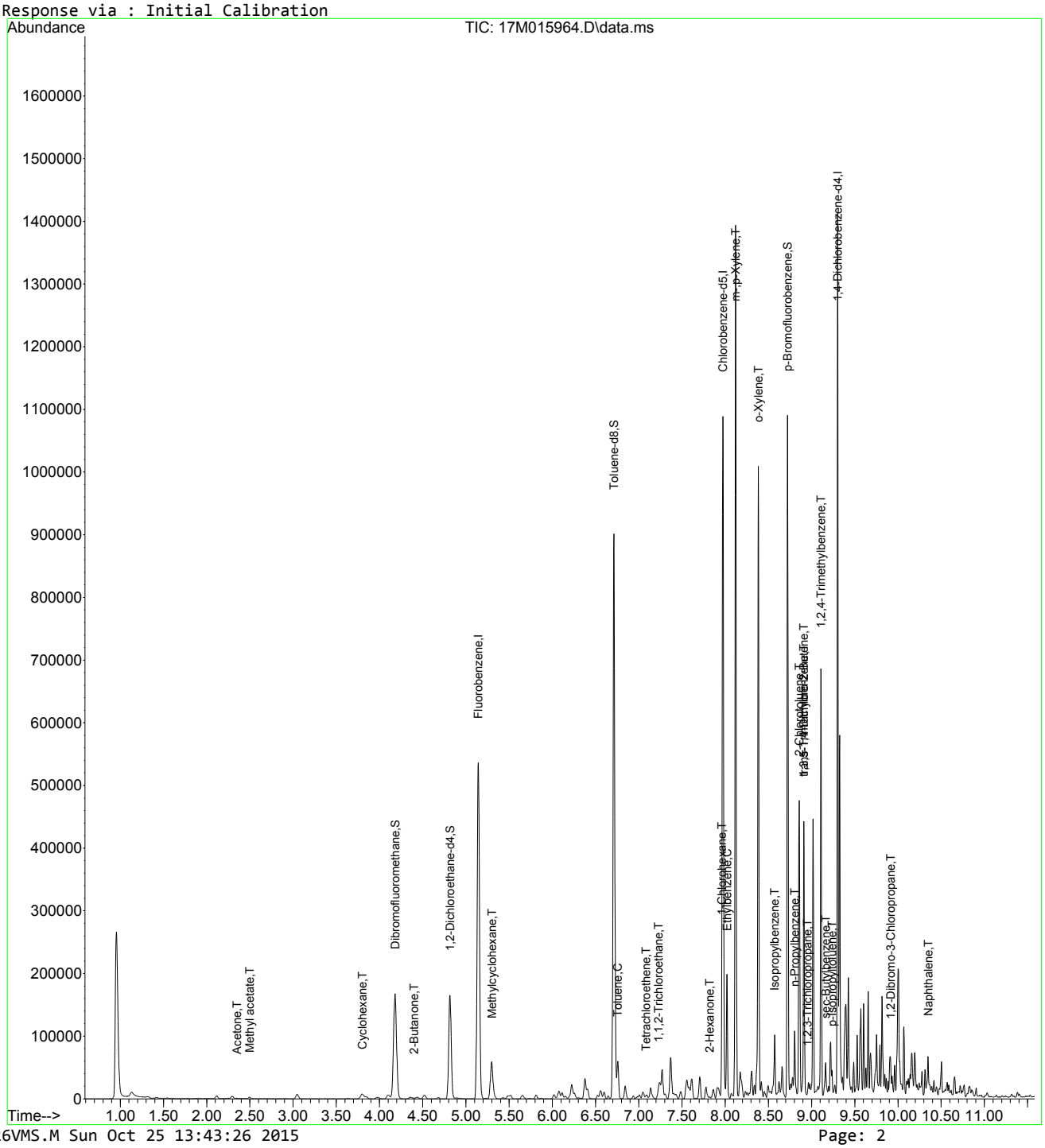
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	481029	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.973	117	355799	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.302	152	181741	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.180	111	129393	26.2367	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 104.947%			
34) 1,2-Dichloroethane-d4	4.817	65	125299	27.8917	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 111.567%			
47) Toluene-d8	6.713	98	486540	26.6641	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 106.656%			
66) p-Bromofluorobenzene	8.723	95	171467	27.2570	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 109.028%			
Target Compounds						Qvalue
7) Chloroethane	1.432	64	1209	Below Cal	#	79
16) Acetone	2.350	43	1068	1.3157	ug/L #	71
18) Methyl acetate	2.495	43	786	0.2613	ug/L #	56
25) Cyclohexane	3.801	56	5571	0.6824	ug/L #	76
32) 2-Butanone	4.400	43	1247	0.9419	ug/L #	33
36) Methylcyclohexane	5.300	83	24191	2.6099	ug/L #	87
48) Toluene	6.757	91	30419	1.2504	ug/L	98
49) Tetrachloroethene	7.084	166	997	0.1492	ug/L	93
50) 1,1,2-Trichloroethane	7.229	97	2243	0.5213	ug/L	84
54) 2-Hexanone	7.819	43	355	0.1628	ug/L #	23
56) 1-Chlorohexane	7.961	69	7525	5.4371	ug/L #	1
57) Ethylbenzene	8.022	106	26415	3.2155	ug/L	68
59) m-,p-Xylene	8.120	106	219863	22.5424	ug/L	96
60) o-Xylene	8.384	106	145742	14.8660	ug/L	97
63) Isopropylbenzene	8.572	105	32509	1.2836	ug/L	98
65) 1,3,5-Trimethylbenzene	8.911	105	117163	5.4876	ug/L	99
68) n-Propylbenzene	8.804	91	36143	1.3305	ug/L	97
70) 2-Chlorotoluene	8.856	91	20300	1.1909	ug/L #	40
71) 1,2,3-Trichloropropane	8.954	110	315	0.2353	ug/L #	25
72) trans-1,4-Dichloro-2-B...	8.911	53	3931	4.4113	ug/L #	23
73) 1,2,4-Trimethylbenzene	9.111	105	180239	8.5000	ug/L	99
76) sec-Butylbenzene	9.163	105	12174	0.4669	ug/L	88
77) p-Isopropyltoluene	9.238	119	7660m	0.3390	ug/L	
82) 1,2-Dibromo-3-Chloropr...	9.916	75	185	0.2159	ug/L #	1
85) Naphthalene	10.350	128	9027	0.5251	ug/L	87

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

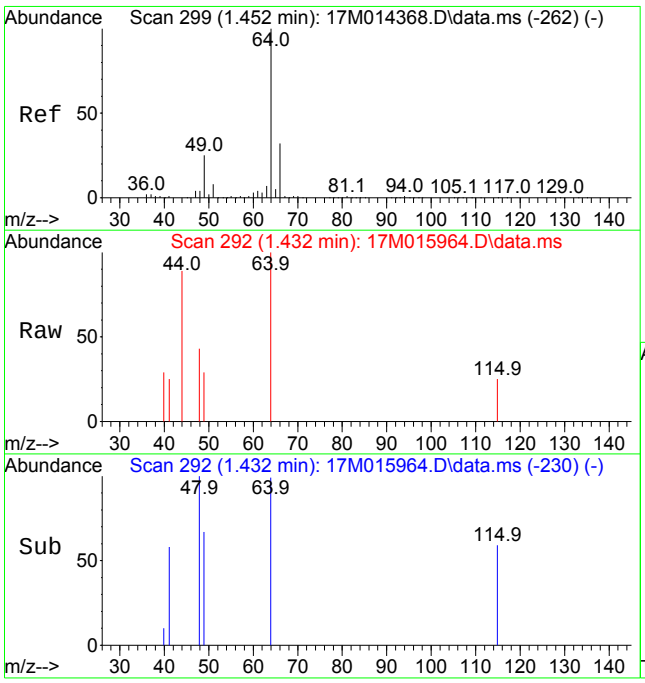
Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015964.D
Acq On : 22 Oct 2015 21:38
Operator : ADC
Sample : L15101278-05 A 826-SPE
Misc : 1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 25 12:50:30 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration



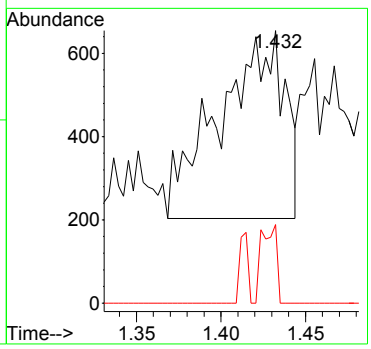
826VMS.M Sun Oct 25 13:43:26 2015 Page: 2

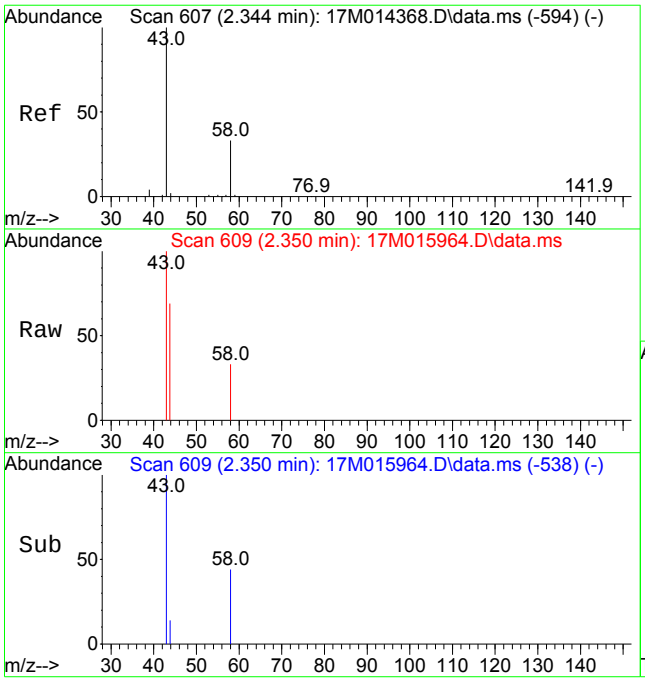


#7
Chloroethane
Concen: Below Cal
RT: 1.432 min Scan# 292
Delta R.T. -0.020 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 64 Resp: 1209

Ion	Ratio	Lower	Upper
64	100		
49	14.5	15.2	35.4#

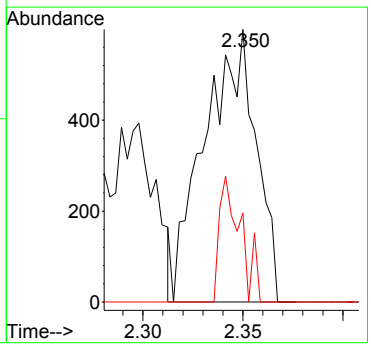


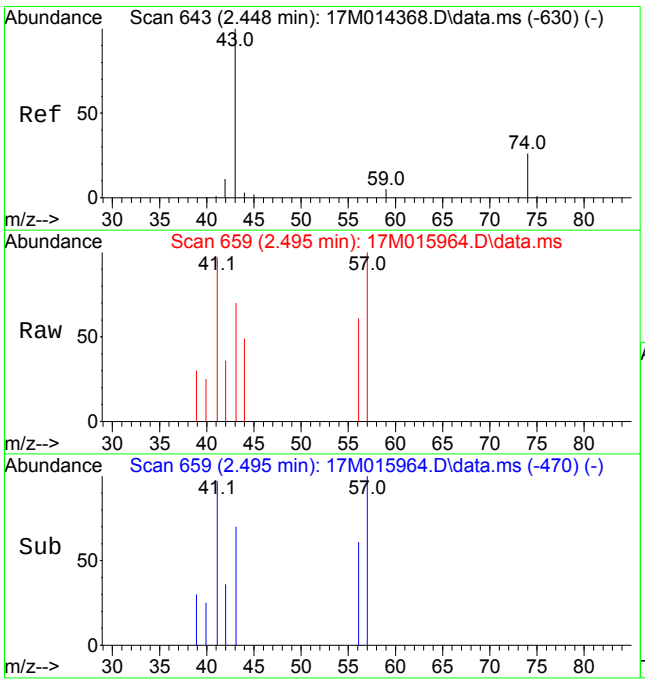


#16
Acetone
Concen: 1.3157 ug/L
RT: 2.350 min Scan# 609
Delta R.T. 0.006 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 43 Resp: 1068

Ion	Ratio	Lower	Upper
43	100		
58	19.1	21.7	50.7#

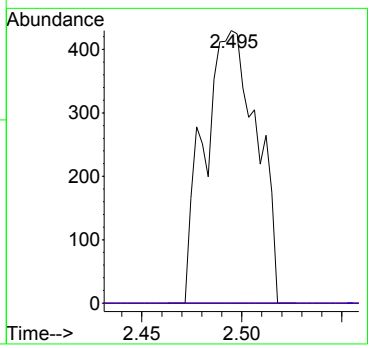


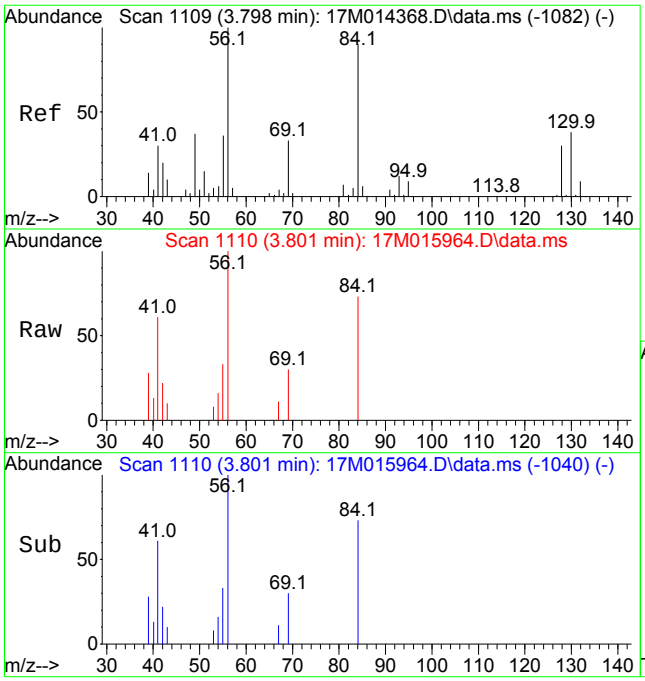


#18
Methyl acetate
Concen: 0.2613 ug/L
RT: 2.495 min Scan# 659
Delta R.T. 0.047 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 43 Resp: 786

Ion	Ratio	Lower	Upper
43	100		
74	0.0	25.6	25.6#
59	0.0	6.2	9.4#

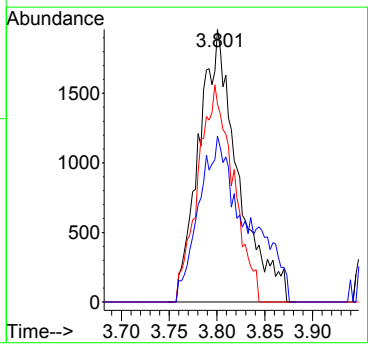


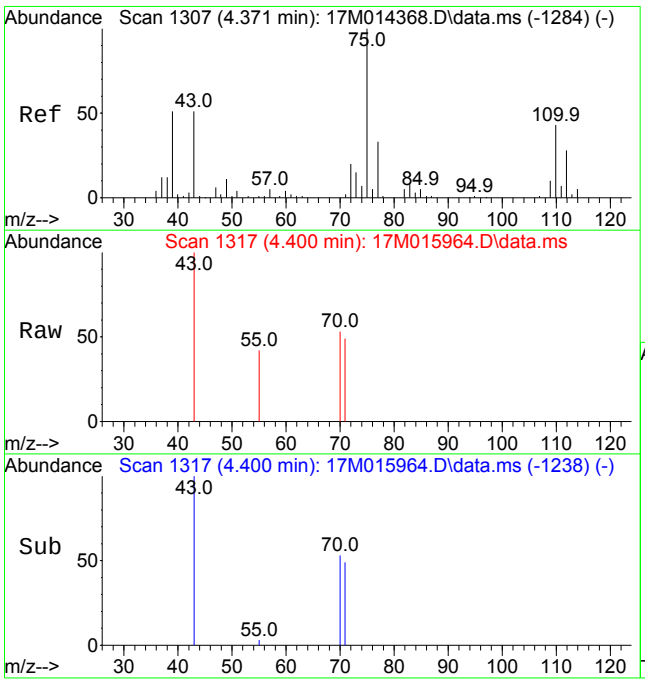


#25
Cyclohexane
Concen: 0.6824 ug/L
RT: 3.801 min Scan# 1110
Delta R.T. 0.003 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 56 Resp: 5571

Ion	Ratio	Lower	Upper
56	100		
84	72.0	71.4	107.0
41	74.7	41.2	61.8#

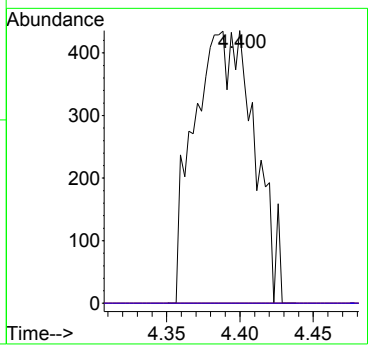


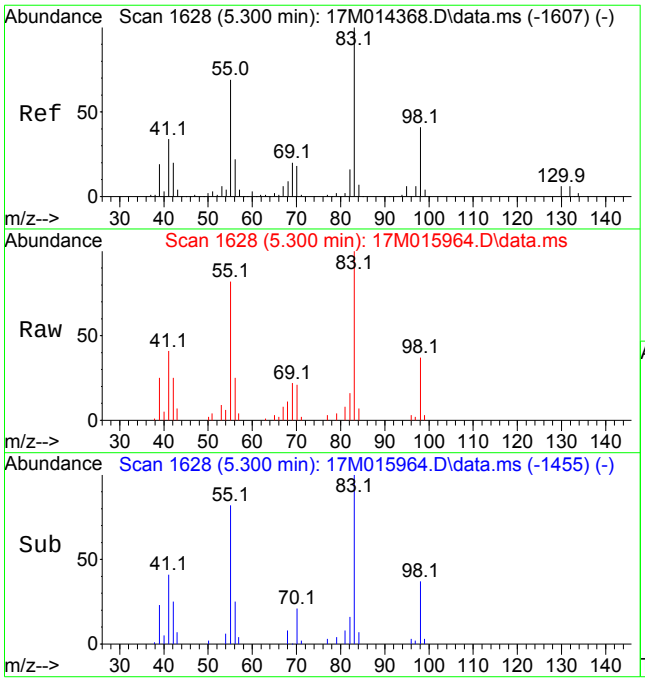


#32
2-Butanone
Concen: 0.9419 ug/L
RT: 4.400 min Scan# 1317
Delta R.T. 0.029 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 43 Resp: 1247

Ion	Ratio	Lower	Upper
43	100		
72	0.0	42.5	63.7#
57	0.0	8.2	12.2#

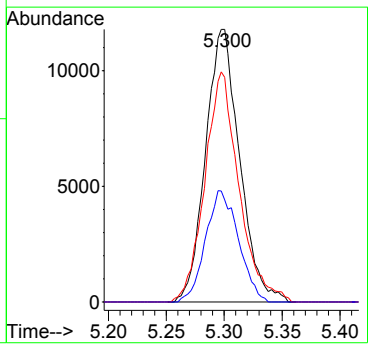


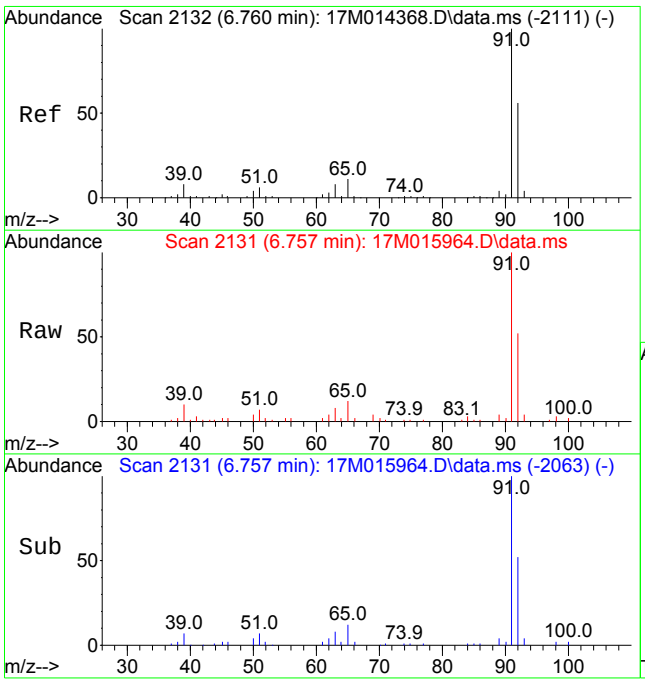


#36
Methylcyclohexane
Concen: 2.6099 ug/L
RT: 5.300 min Scan# 1628
Delta R.T. 0.000 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 83 Resp: 24191

Ion	Ratio	Lower	Upper
83	100		
55	84.5	55.8	83.8#
98	39.3	34.2	51.2

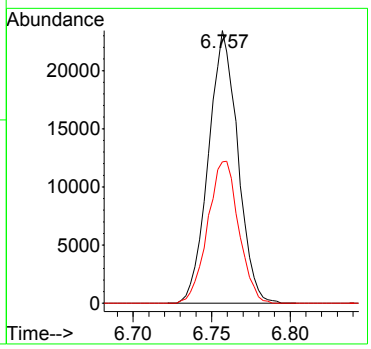


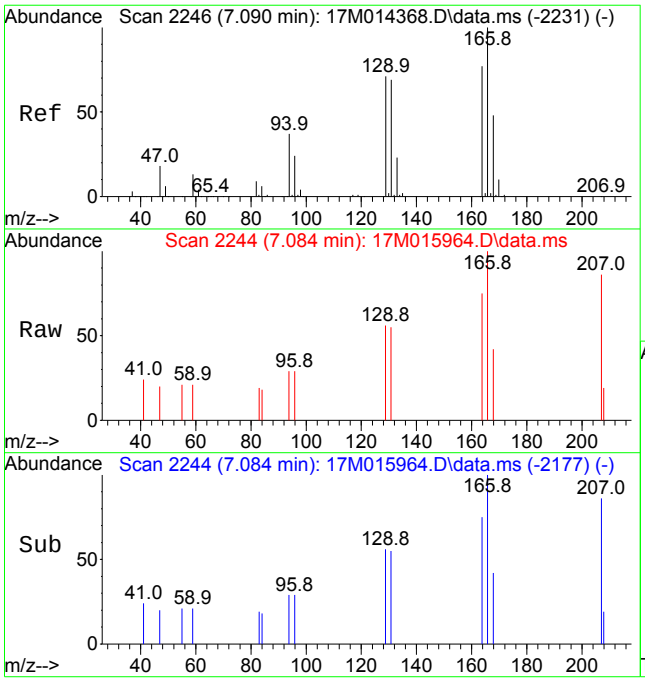


#48
Toluene
Concen: 1.2504 ug/L
RT: 6.757 min Scan# 2131
Delta R.T. -0.003 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 91 Resp: 30419

Ion	Ratio	Lower	Upper
91	100		
92	55.1	33.8	79.0

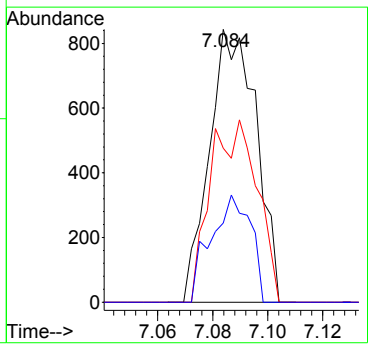


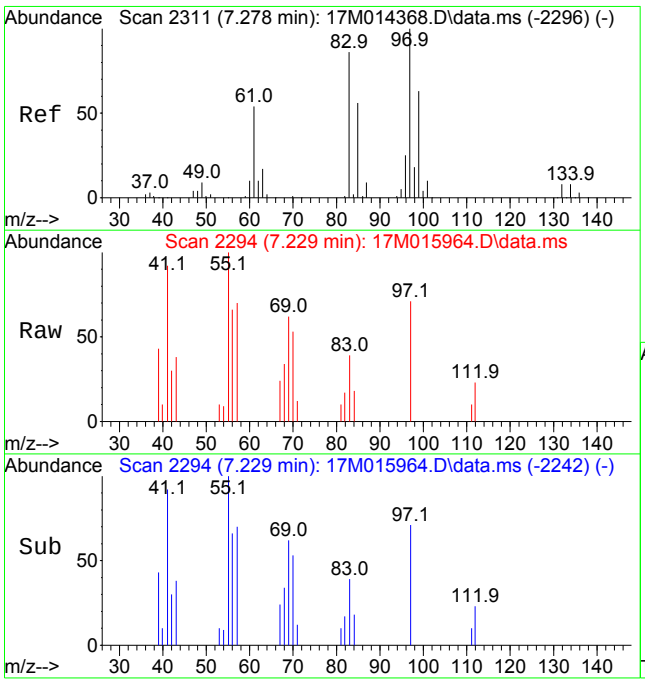


#49
Tetrachloroethene
Concen: 0.1492 ug/L
RT: 7.084 min Scan# 2244
Delta R.T. -0.006 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion:166 Resp: 997

Ion	Ratio	Lower	Upper
166	100		
129	66.7	57.6	86.4
94	33.2	29.8	44.8

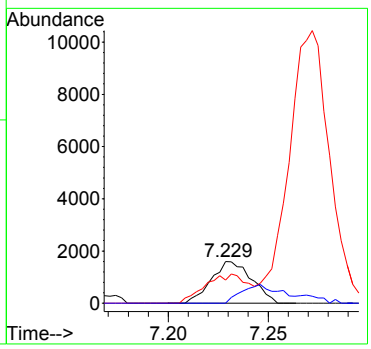


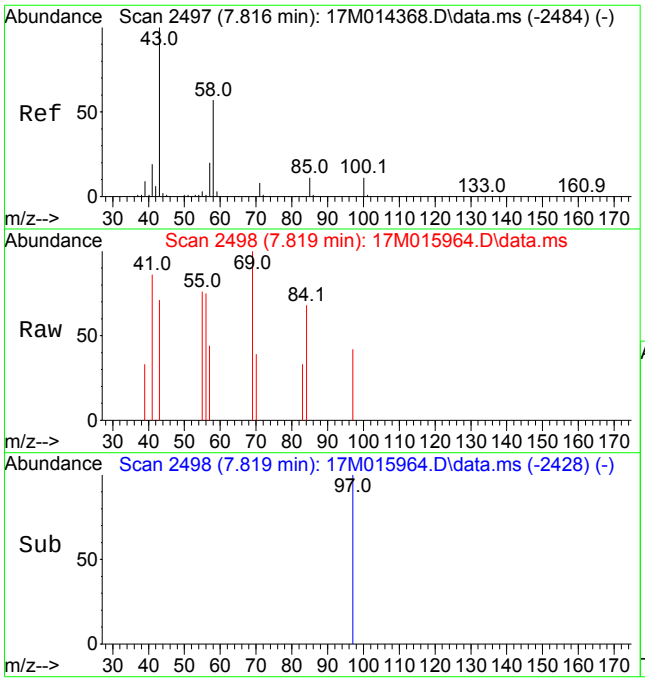


#50
1,1,2-Trichloroethane
Concen: 0.5213 ug/L
RT: 7.229 min Scan# 2294
Delta R.T. -0.049 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 97 Resp: 2243

Ion	Ratio	Lower	Upper
97	100		
83	68.6	51.8	120.8
99	53.4	37.9	88.3

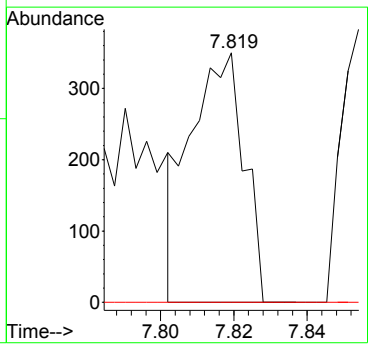


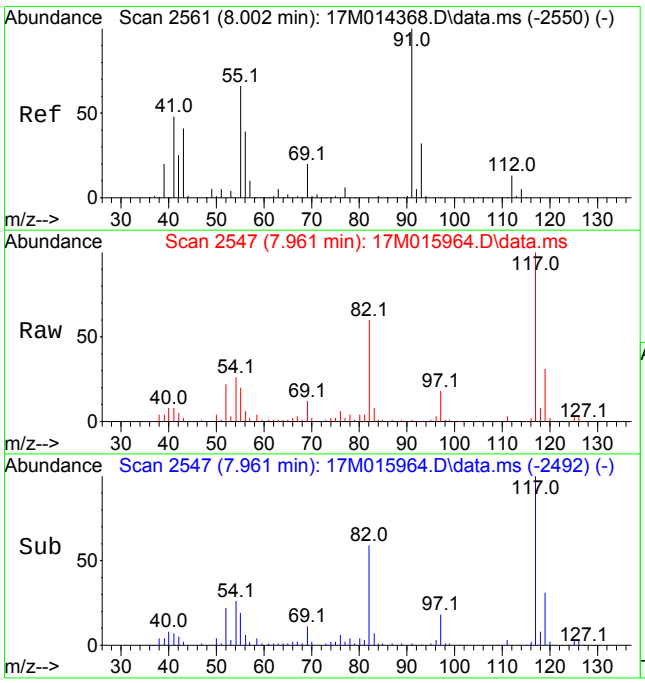


#54
2-Hexanone
Concen: 0.1628 ug/L
RT: 7.819 min Scan# 2498
Delta R.T. 0.003 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 43 Resp: 355

Ion	Ratio	Lower	Upper
43	100		
58	0.0	44.8	67.2#

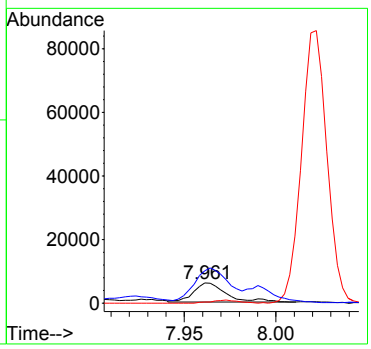


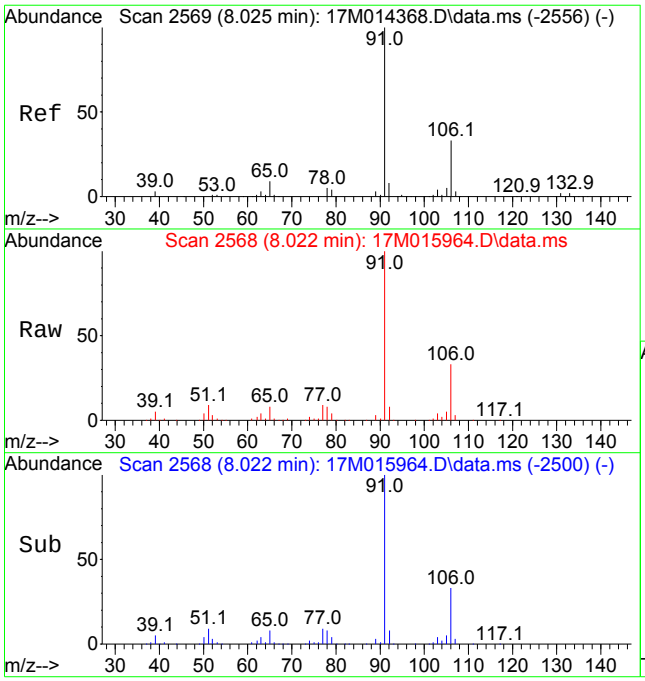


#56
1-Chlorohexane
Concen: 5.4371 ug/L
RT: 7.961 min Scan# 2547
Delta R.T. -0.041 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 69 Resp: 7525

Ion	Ratio	Lower	Upper
69	100		
91	14.0	1863.4	2795.0#
55	259.2	275.6	413.4#

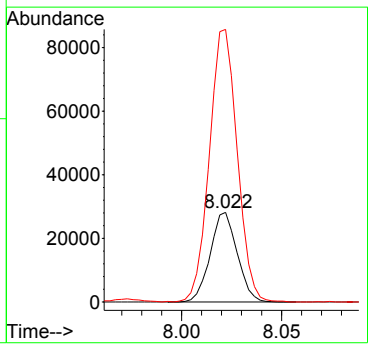


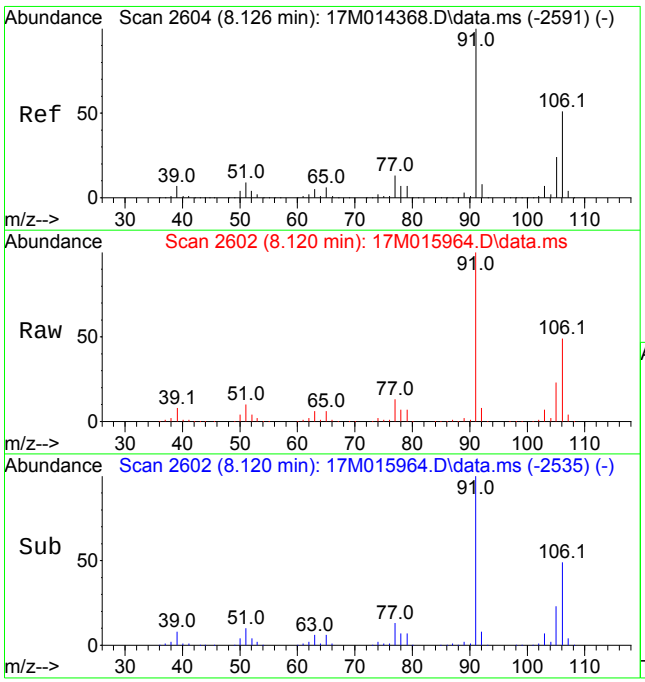


#57
Ethylbenzene
Concen: 3.2155 ug/L
RT: 8.022 min Scan# 2568
Delta R.T. -0.003 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion:106 Resp: 26415

Ion	Ratio	Lower	Upper
106	100		
91	314.6	311.7	467.5

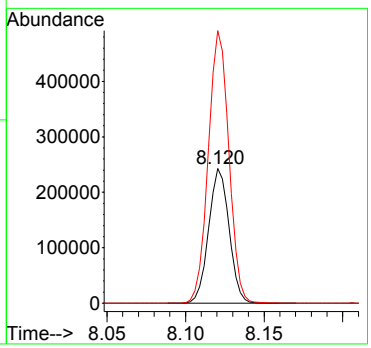


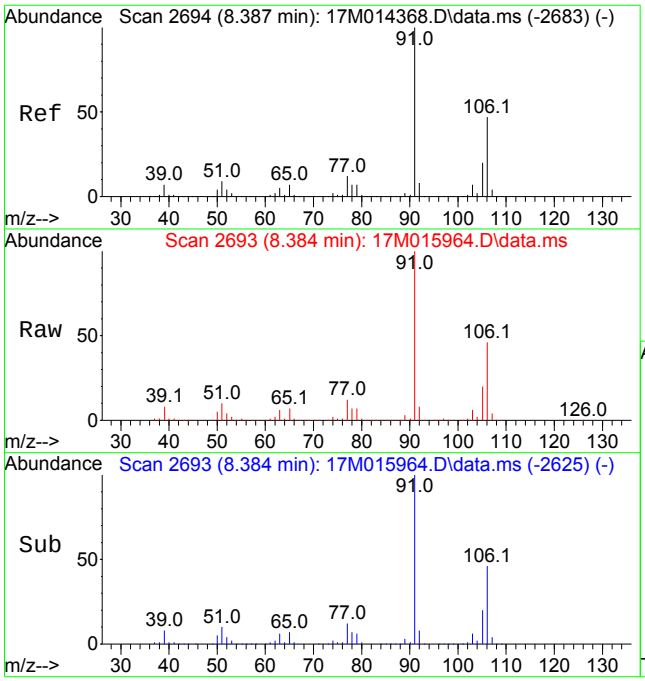


#59
m-,p-Xylene
Concen: 22.5424 ug/L
RT: 8.120 min Scan# 2602
Delta R.T. -0.006 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion:106 Resp: 219863

Ion	Ratio	Lower	Upper
106	100		
91	204.0	119.0	277.6

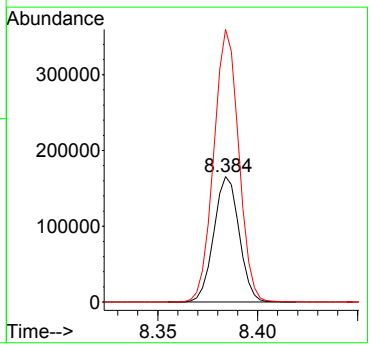


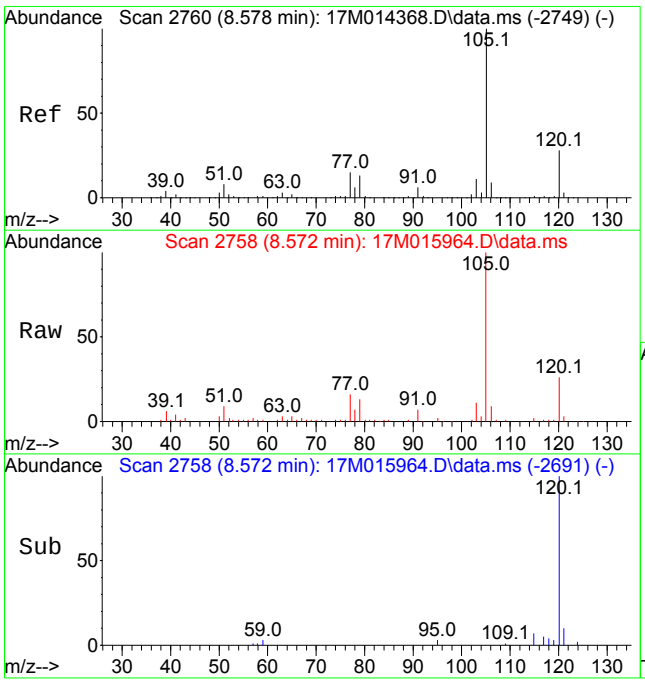


#60
o-Xylene
Concen: 14.8660 ug/L
RT: 8.384 min Scan# 2693
Delta R.T. -0.003 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion:106 Resp: 145742

Ion	Ratio	Lower	Upper
106	100		
91	214.8	126.2	294.4

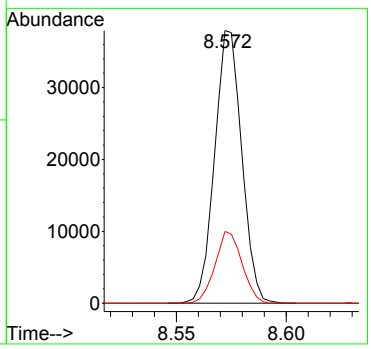


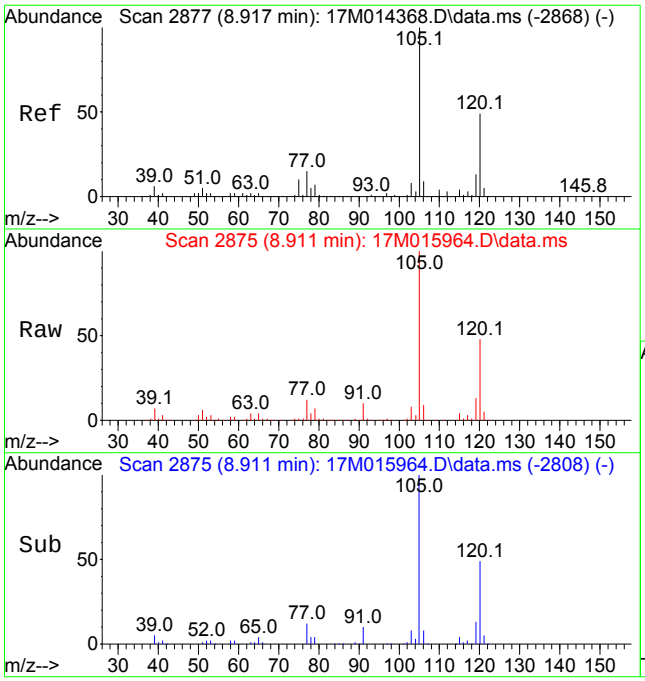


#63
Isopropylbenzene
Concen: 1.2836 ug/L
RT: 8.572 min Scan# 2758
Delta R.T. -0.006 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion:105 Resp: 32509

Ion	Ratio	Lower	Upper
105	100		
120	26.1	16.4	38.4

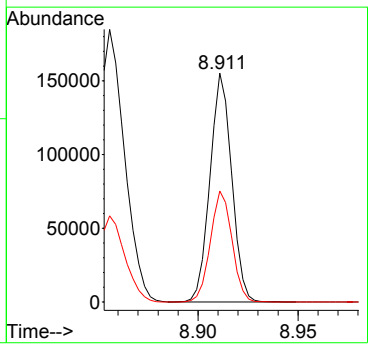


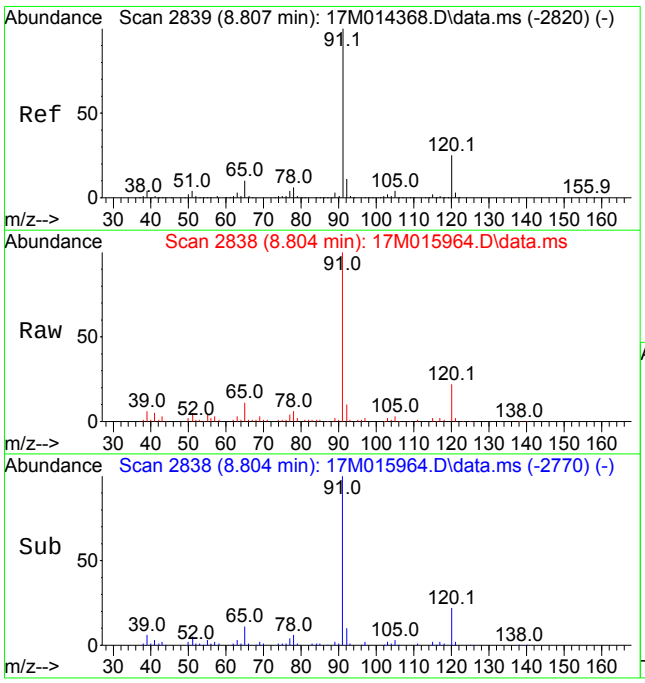


#65
1,3,5-Trimethylbenzene
Concen: 5.4876 ug/L
RT: 8.911 min Scan# 2875
Delta R.T. -0.006 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion:105 Resp: 117163

Ion	Ratio	Lower	Upper
105	100		
120	48.2	39.2	58.8

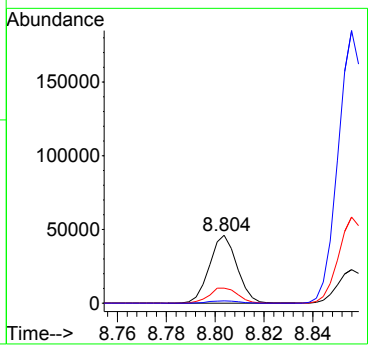


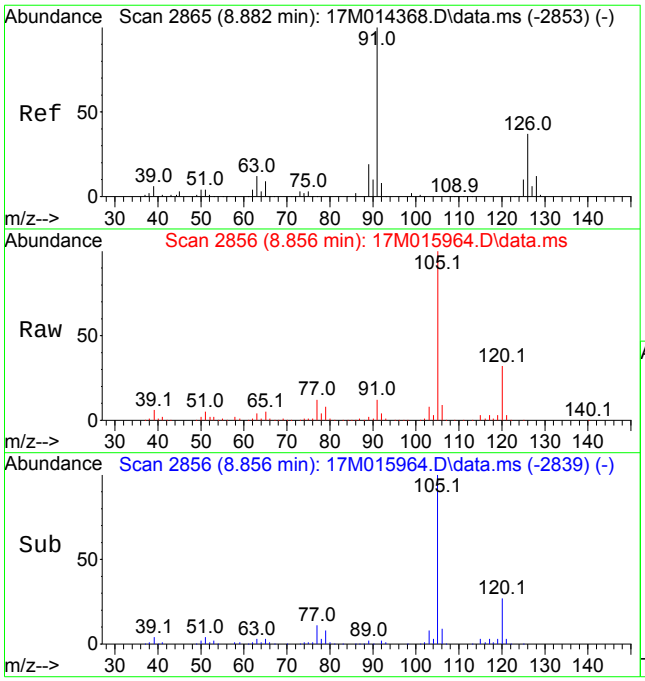


#68
n-Propylbenzene
Concen: 1.3305 ug/L
RT: 8.804 min Scan# 2838
Delta R.T. -0.003 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 91 Resp: 36143

Ion	Ratio	Lower	Upper
91	100		
120	23.5	15.0	35.0
105	3.8	2.3	5.3

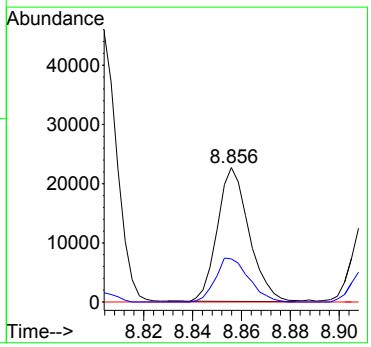


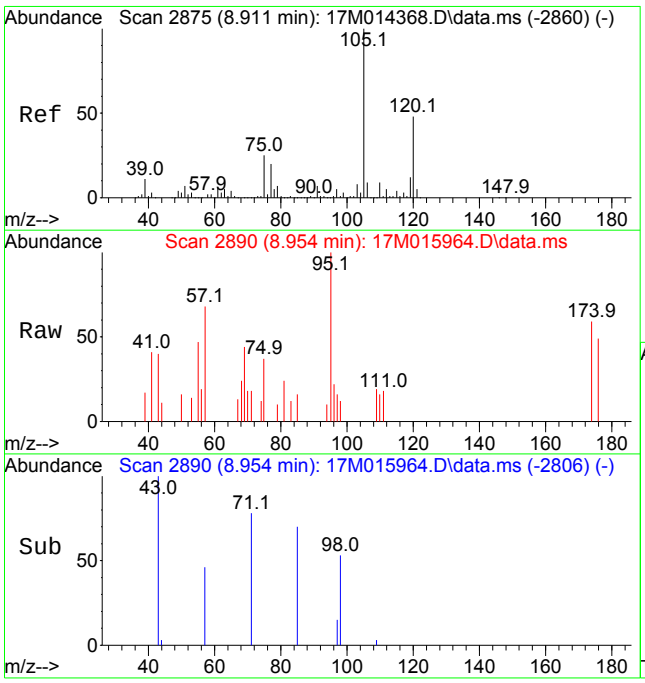


#70
2-Chlorotoluene
Concen: 1.1909 ug/L
RT: 8.856 min Scan# 2856
Delta R.T. -0.026 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 91 Resp: 20300

Ion	Ratio	Lower	Upper
91	100		
126	0.0	22.4	52.2#
63	34.6	7.7	18.1#

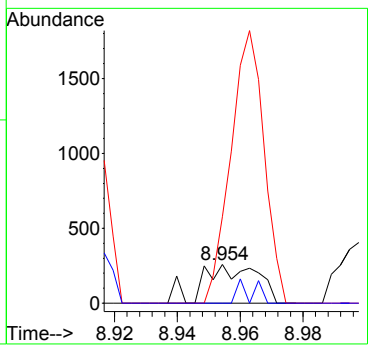


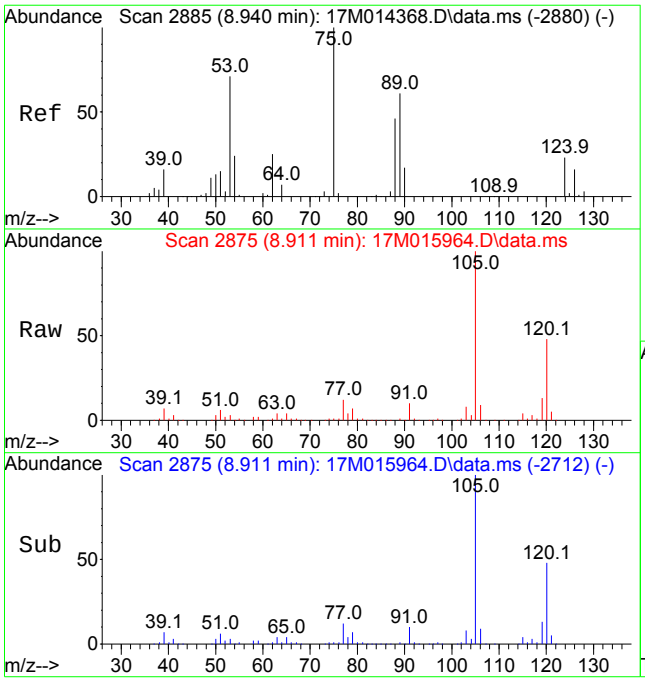


#71
1,2,3-Trichloropropane
Concen: 0.2353 ug/L
RT: 8.954 min Scan# 2890
Delta R.T. 0.043 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion:110 Resp: 315

Ion	Ratio	Lower	Upper
110	100		
75	426.3	230.6	346.0#
61	0.0	59.5	89.3#

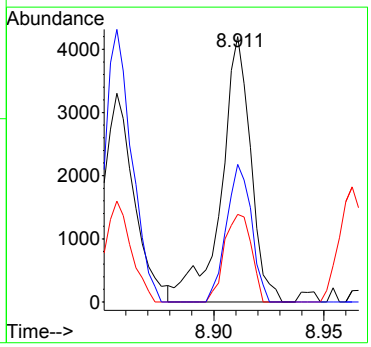


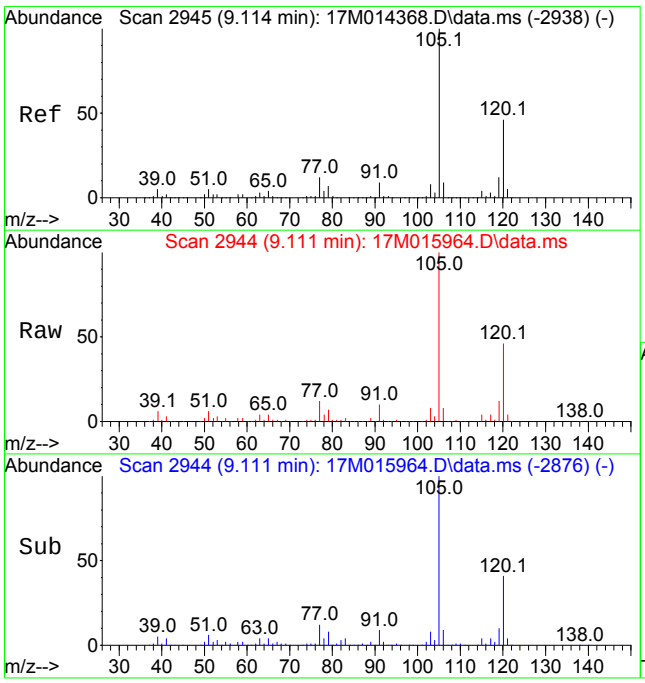


#72
trans-1,4-Dichloro-2-Butene
Concen: 4.4113 ug/L
RT: 8.911 min Scan# 2875
Delta R.T. -0.029 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 53 Resp: 3931

Ion	Ratio	Lower	Upper
53	100		
75	30.1	151.4	151.4#
89	44.0	70.1	105.1#

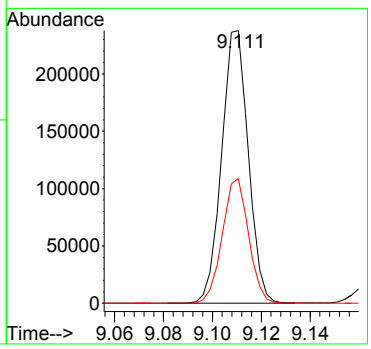


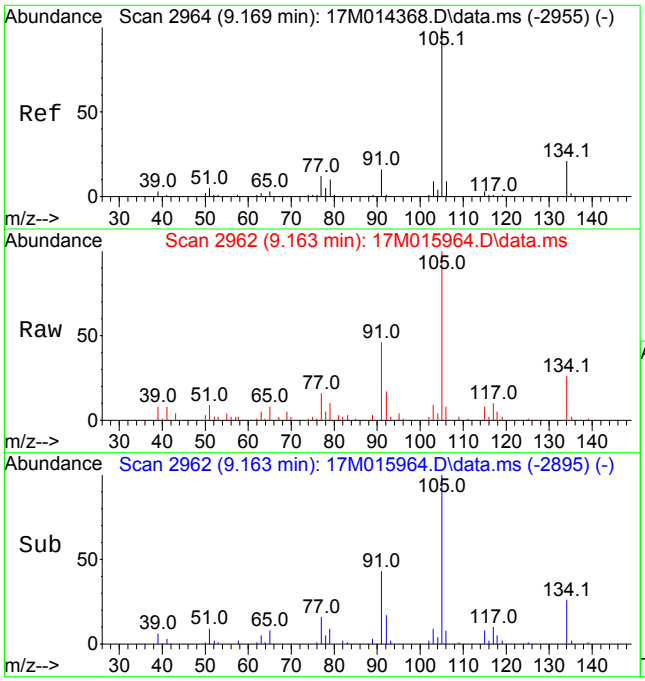


#73
1,2,4-Trimethylbenzene
Concen: 8.5000 ug/L
RT: 9.111 min Scan# 2944
Delta R.T. -0.003 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion:105 Resp: 180239

Ion	Ratio	Lower	Upper
105	100		
120	45.0	36.6	55.0

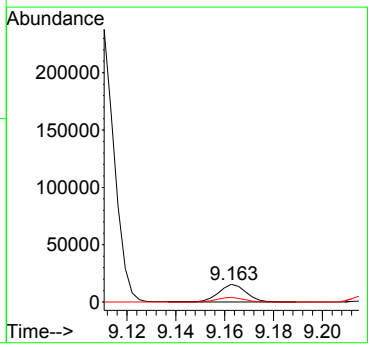


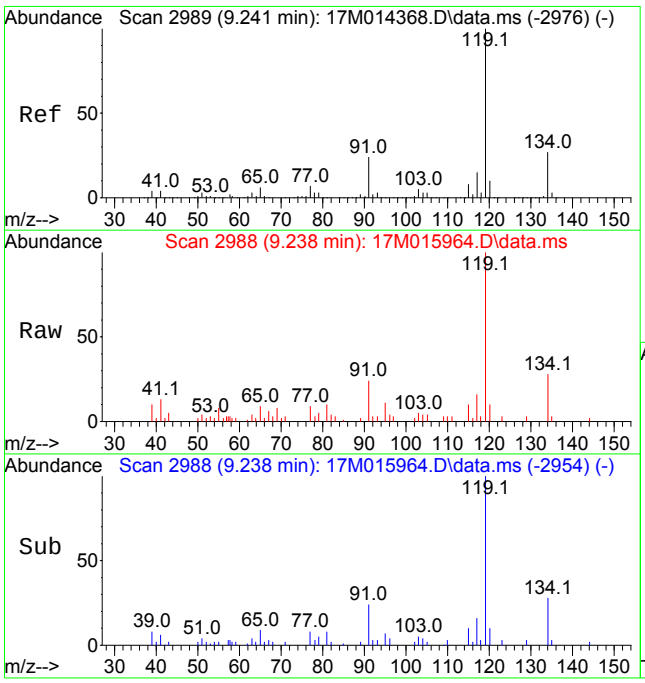


#76
sec-Butylbenzene
Concen: 0.4669 ug/L
RT: 9.163 min Scan# 2962
Delta R.T. -0.006 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion:105 Resp: 12174

Ion	Ratio	Lower	Upper
105	100		
134	26.0	12.3	28.7

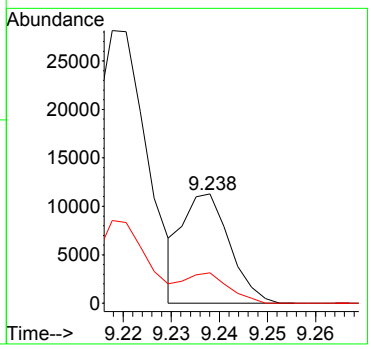


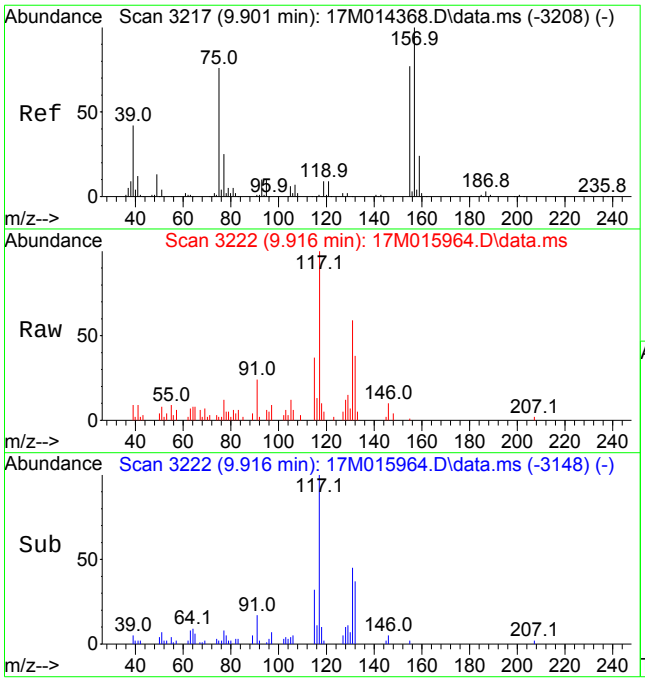


#77
p-Isopropyltoluene
Concen: 0.3390 ug/L m
RT: 9.238 min Scan# 2988
Delta R.T. -0.003 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion:119 Resp: 7660

Ion	Ratio	Lower	Upper
119	100		
134	111.0	16.2	37.8#

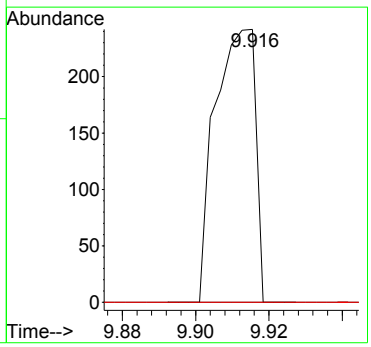


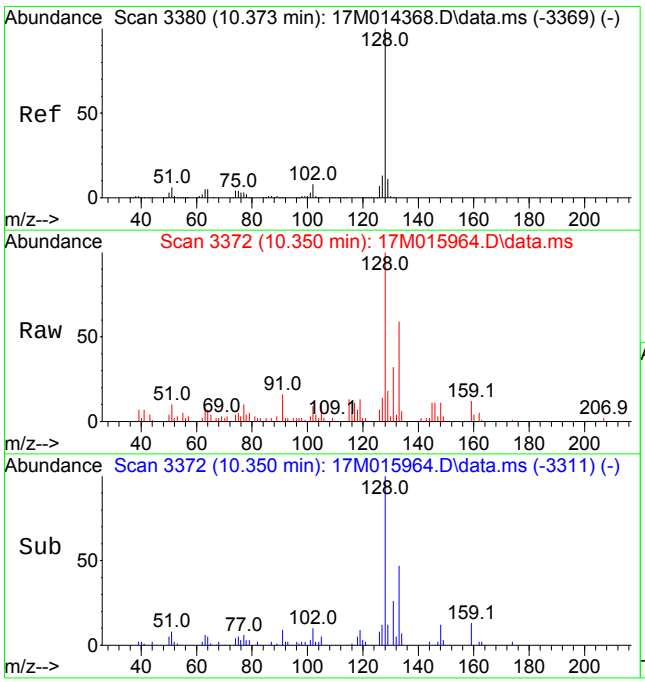


#82
1,2-Dibromo-3-Chloropropane
Concen: 0.2159 ug/L
RT: 9.916 min Scan# 3222
Delta R.T. 0.015 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

Tgt Ion: 75 Resp: 185

Ion	Ratio	Lower	Upper
75	100		
157	0.0	77.0	179.6#

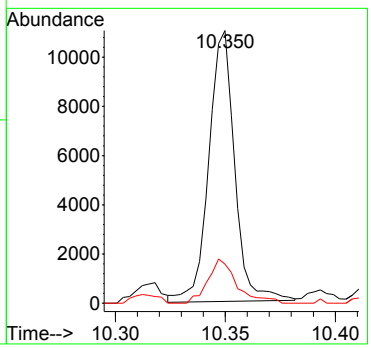




#85
Naphthalene
Concen: 0.5251 ug/L
RT: 10.350 min Scan# 3372
Delta R.T. -0.023 min
Lab File: 17M015964.D
Acq: 22 Oct 2015 21:38

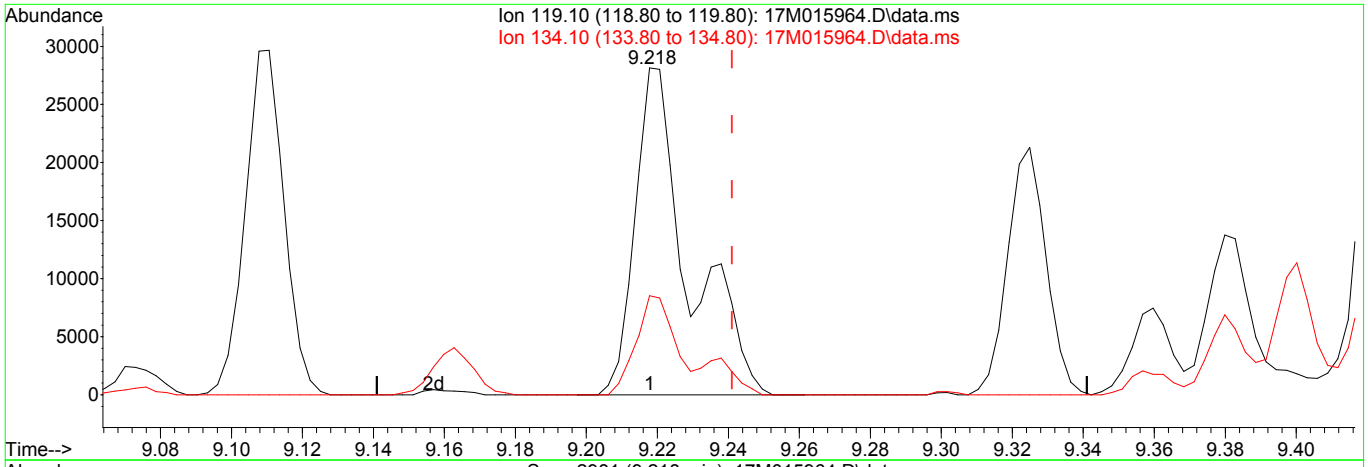
Tgt Ion:128 Resp: 9027

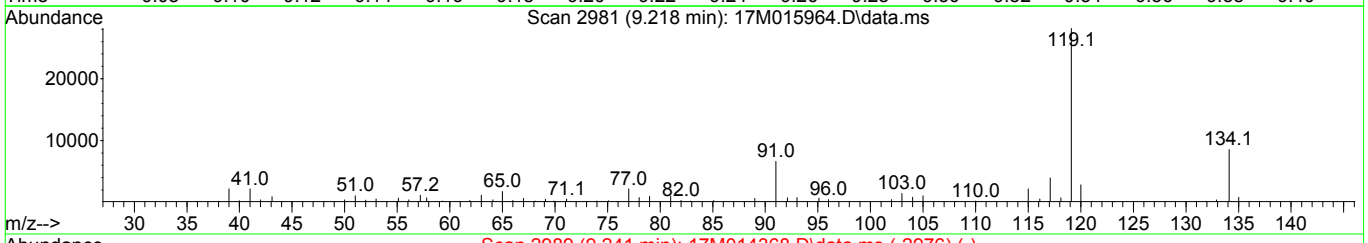
Ion	Ratio	Lower	Upper
128	100		
127	18.1	7.9	18.3

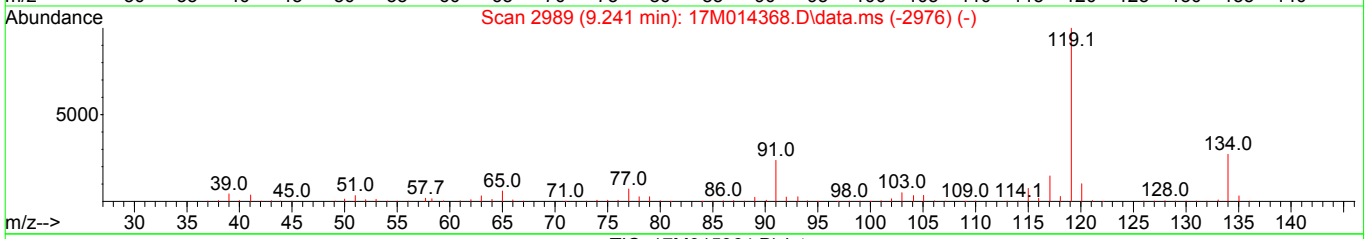


Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015964.D
Acq On : 22 Oct 2015 21:38
Operator : ADC
Sample : L15101278-05 A 826-SPE
Misc : 1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 25 12:50:30 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015964.D\data.ms

(77) p-Isopropyltoluene (T)

9.218min (-0.023) 1.31 ug/L

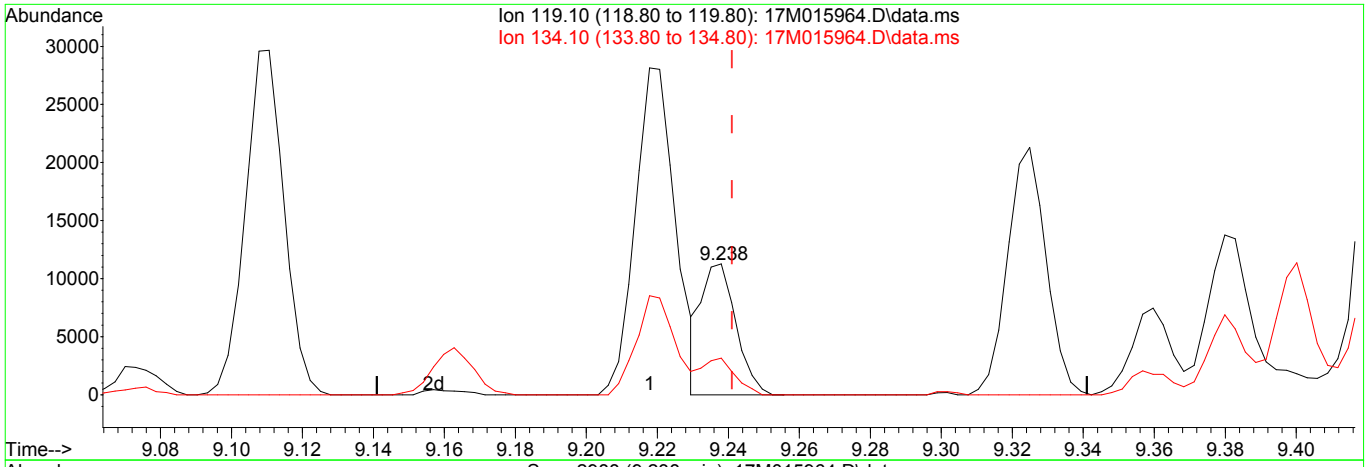
response 29550

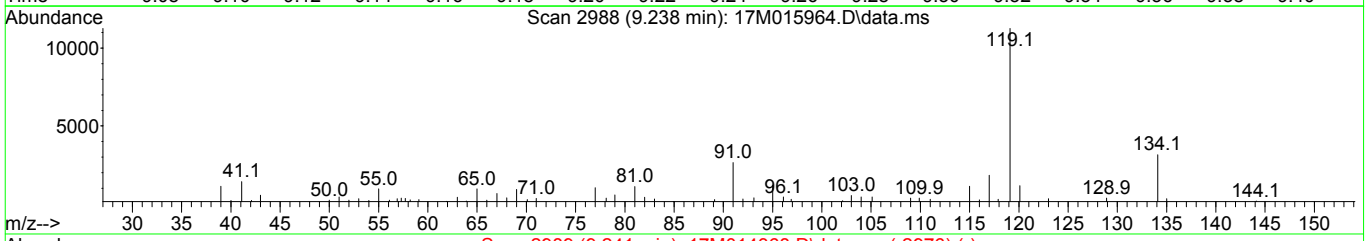
Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.00	28.79
0.00	0.00	0.00
0.00	0.00	0.00

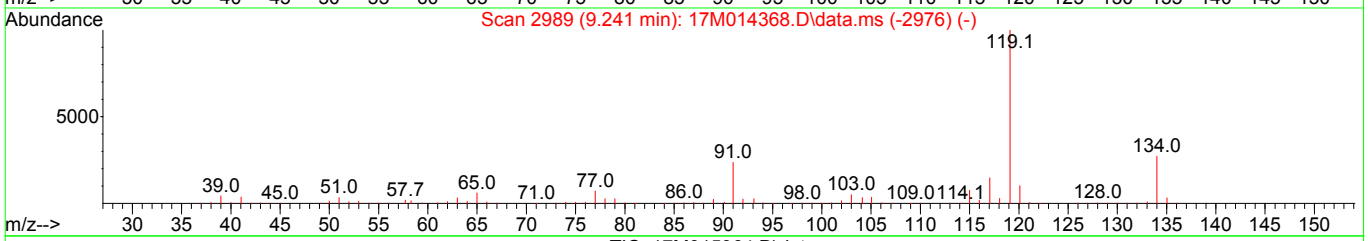
Quantitation Report (Qedit)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015964.D
Acq On : 22 Oct 2015 21:38
Operator : ADC
Sample : L15101278-05 A 826-SPE
Misc : 1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 25 12:50:30 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015964.D\data.ms

(77) p-Isopropyltoluene (T)

9.238min (-0.003) 0.34 ug/L mint

response 7660

Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.00	111.04#
0.00	0.00	0.00
0.00	0.00	0.00

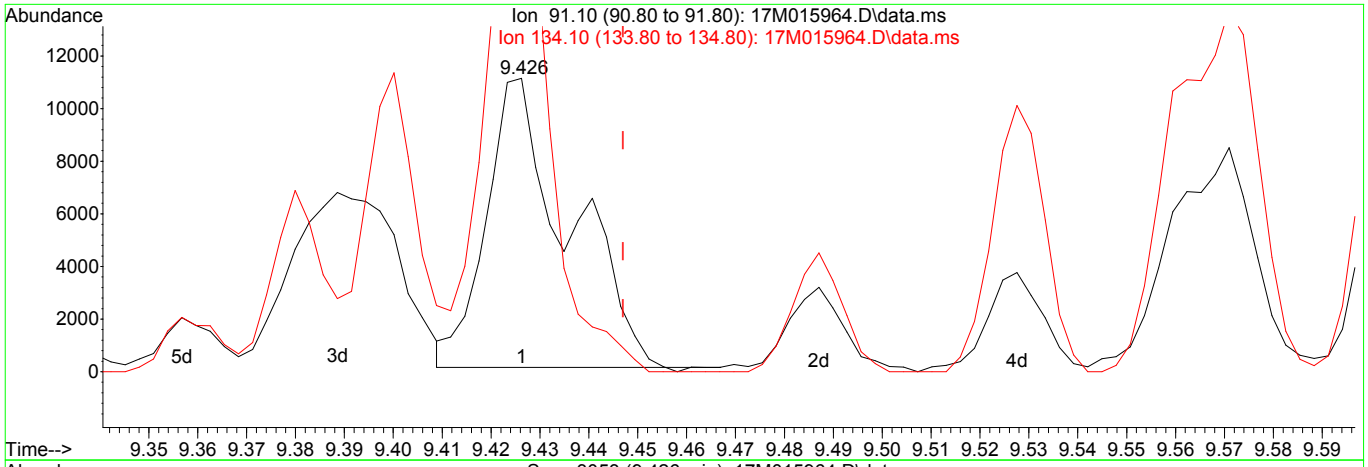
826VMS.M Sun Oct 25 13:43:02 2015

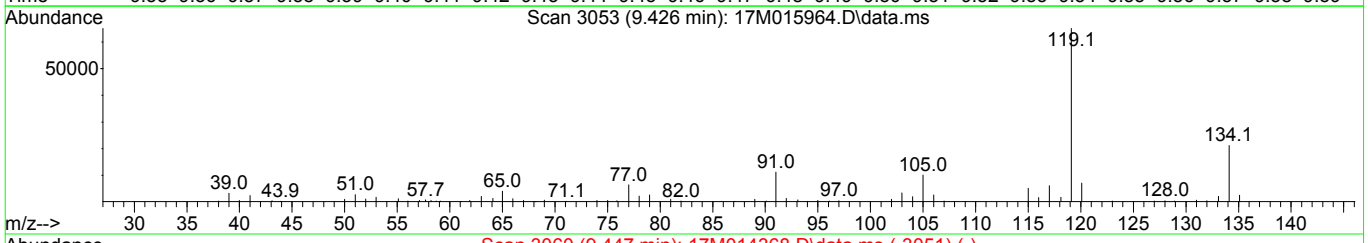
Analyst: 10/25/2015 14:10 Supervisor: 10/26/2015 15:22

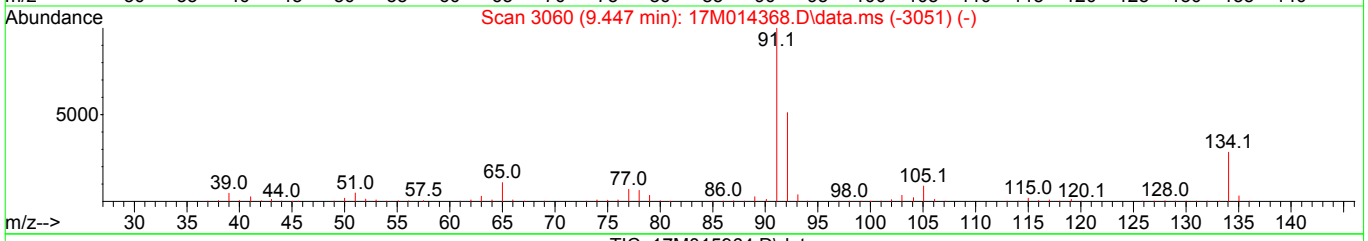
#1 - Data system fails to select correct peak

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015964.D
Acq On : 22 Oct 2015 21:38
Operator : ADC
Sample : L15101278-05 A 826-SPE
Misc : 1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 25 12:50:30 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration







TIC: 17M015964.D\data.ms

(80) n-Butylbenzene (T)

9.426min (-0.021) 0.68 ug/L

response 12888

Ion	Exp%	Act%
91.10	100.00	100.00
134.10	28.00	144.14#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015966.D
Acq On : 22 Oct 2015 22:18
Operator : ADC
Sample : L15101278-06 A 826-SPE
Misc : 1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 25 12:50:38 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

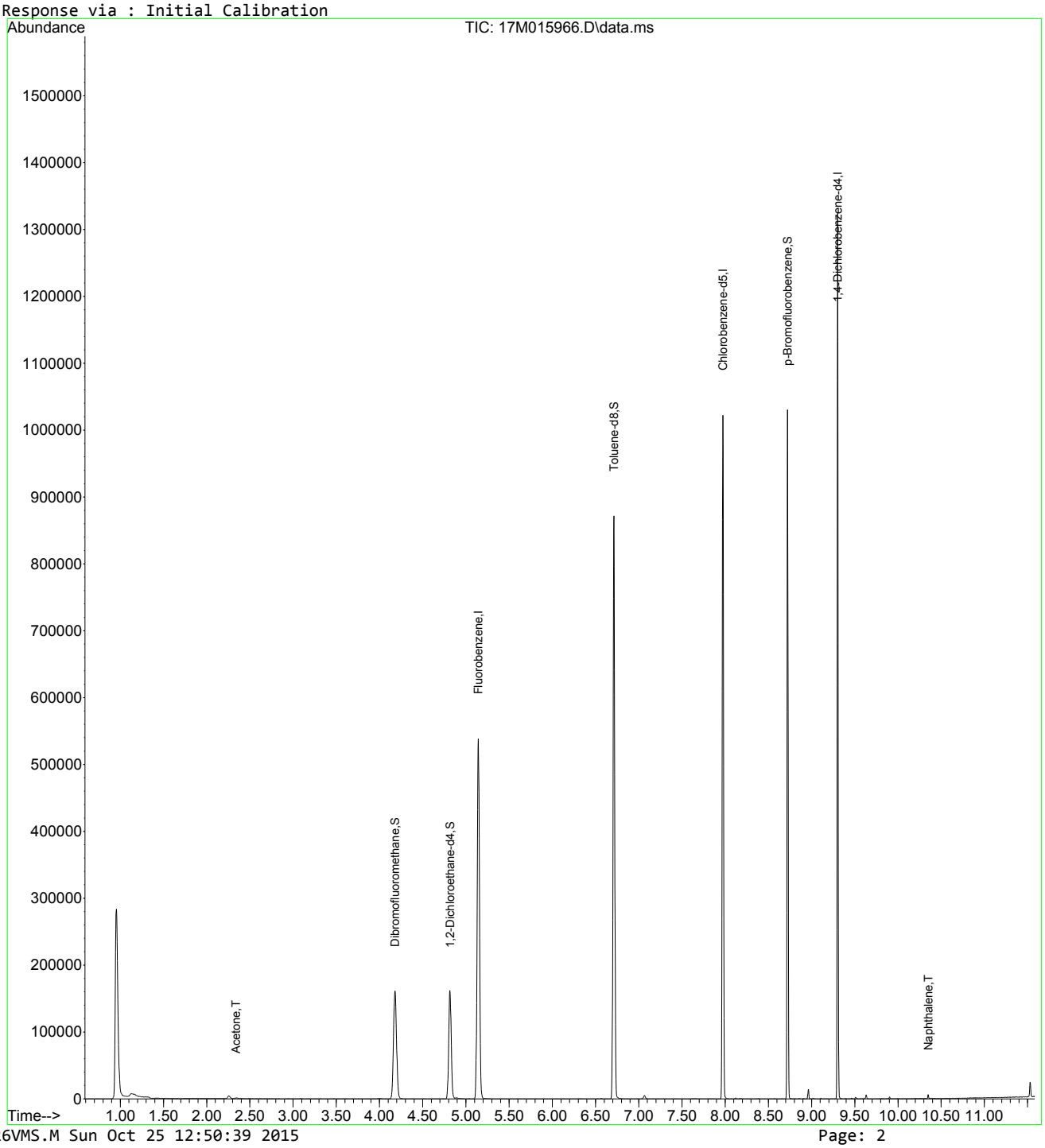
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	472018	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.973	117	341303	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.302	152	170542	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.177	111	126045	26.0457	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 104.183%			
34) 1,2-Dichloroethane-d4	4.817	65	122094	27.6971	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 110.788%			
47) Toluene-d8	6.713	98	469168	26.8042	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 107.217%			
66) p-Bromofluorobenzene	8.723	95	162190	27.4753	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 109.901%			
Target Compounds						Qvalue
7) Chloroethane	1.438	64	183	Below Cal	#	50
16) Acetone	2.338	43	1353	1.6986	ug/L	76
85) Naphthalene	10.350	128	2459	0.1524	ug/L	100

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

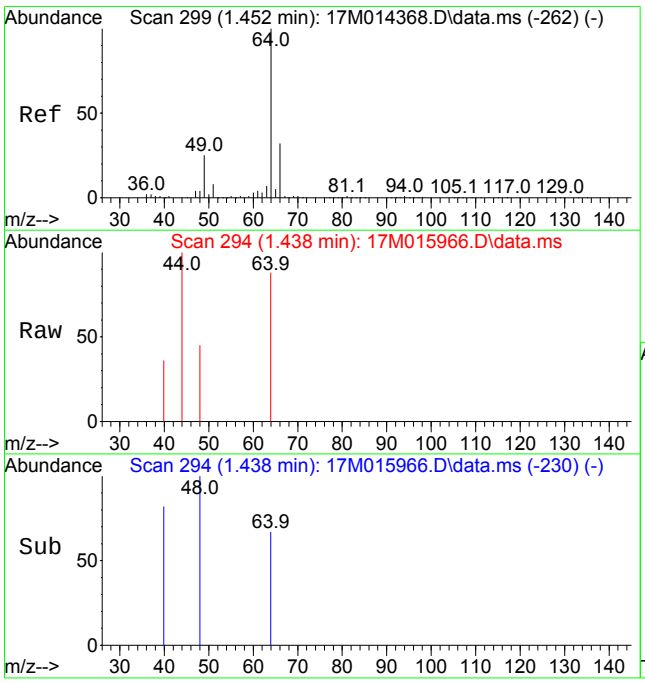
Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015966.D
Acq On : 22 Oct 2015 22:18
Operator : ADC
Sample : L15101278-06 A 826-SPE
Misc : 1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 25 12:50:38 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration



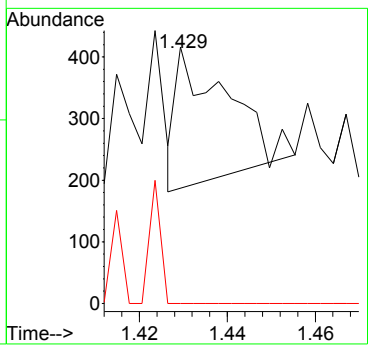
826VMS.M Sun Oct 25 12:50:39 2015 Page: 2

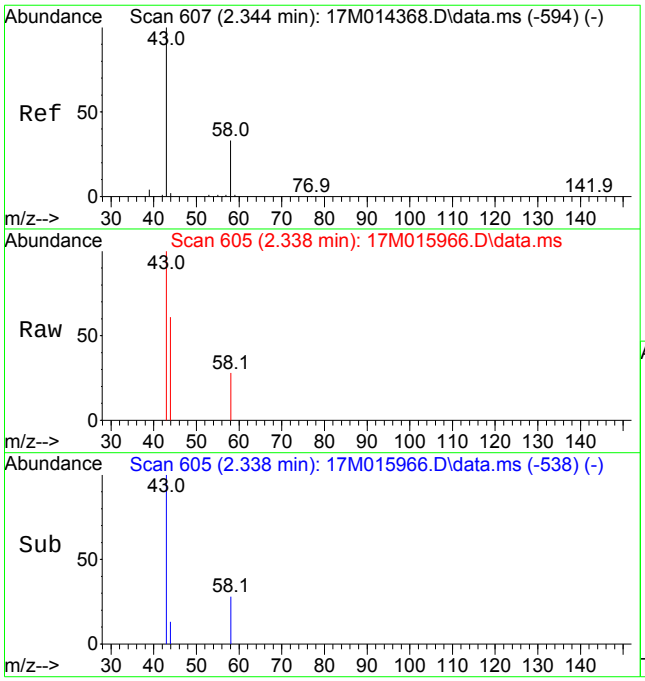


#7
Chloroethane
Concen: Below Cal
RT: 1.438 min Scan# 294
Delta R.T. -0.014 min
Lab File: 17M015966.D
Acq: 22 Oct 2015 22:18

Tgt Ion: 64 Resp: 183

Ion	Ratio	Lower	Upper
64	100		
49	0.0	15.2	35.4#

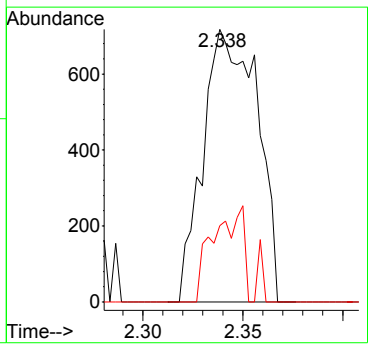


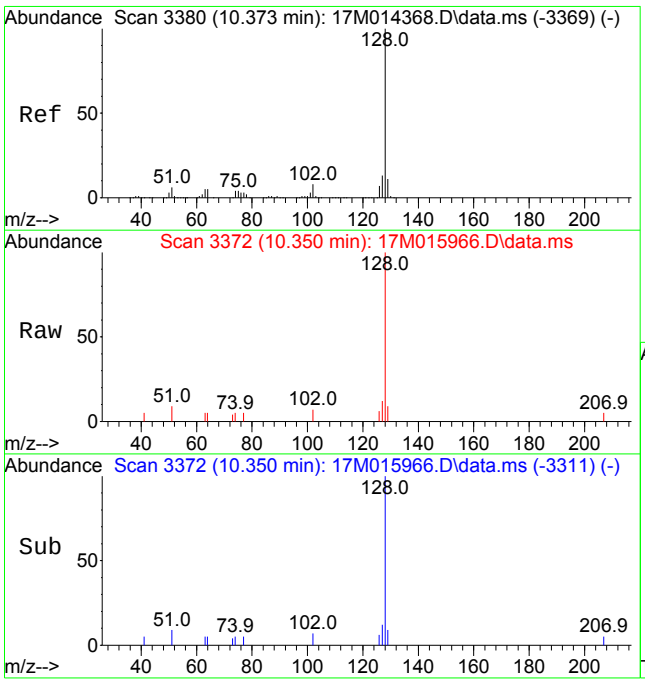


#16
Acetone
Concen: 1.6986 ug/L
RT: 2.338 min Scan# 605
Delta R.T. -0.006 min
Lab File: 17M015966.D
Acq: 22 Oct 2015 22:18

Tgt Ion: 43 Resp: 1353

Ion	Ratio	Lower	Upper
43	100		
58	21.8	21.7	50.7

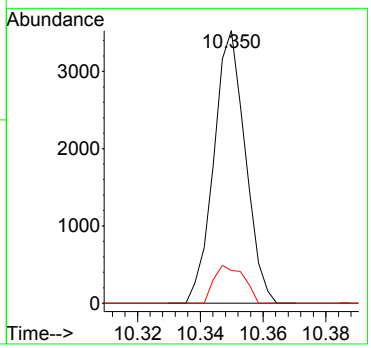




#85
Naphthalene
Concen: 0.1524 ug/L
RT: 10.350 min Scan# 3372
Delta R.T. -0.023 min
Lab File: 17M015966.D
Acq: 22 Oct 2015 22:18

Tgt Ion:128 Resp: 2459

Ion	Ratio	Lower	Upper
128	100		
127	13.1	7.9	18.3



Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015965.D
Acq On : 22 Oct 2015 21:57
Operator : ADC
Sample : L15101278-07 A 826-SPE
Misc : 1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 25 12:50:35 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

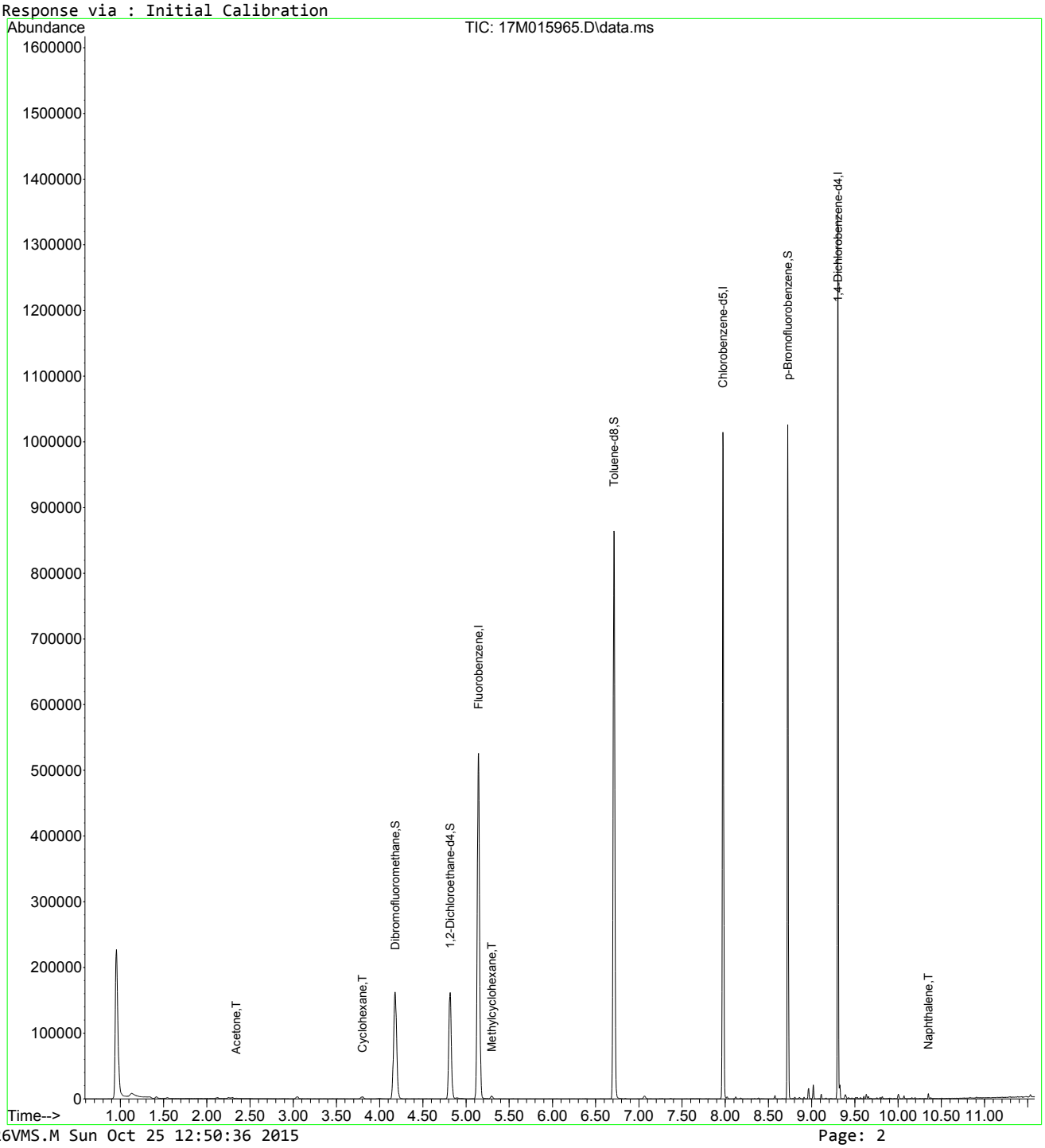
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	467854	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.973	117	339843	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.302	152	170388	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.183	111	126398	26.3511	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 105.404%			
34) 1,2-Dichloroethane-d4	4.814	65	122824	28.1107	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 112.443%			
47) Toluene-d8	6.711	98	468220	26.8649	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 107.460%			
66) p-Bromofluorobenzene	8.723	95	162743	27.5939	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 110.376%			
Target Compounds						Qvalue
7) Chloroethane	1.432	64	298	Below Cal	#	68
16) Acetone	2.342	43	876	1.1096	ug/L #	39
25) Cyclohexane	3.801	56	1891	0.2381	ug/L	91
36) Methylcyclohexane	5.298	83	1788	0.1983	ug/L	87
85) Naphthalene	10.350	128	2872	0.1782	ug/L	98

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

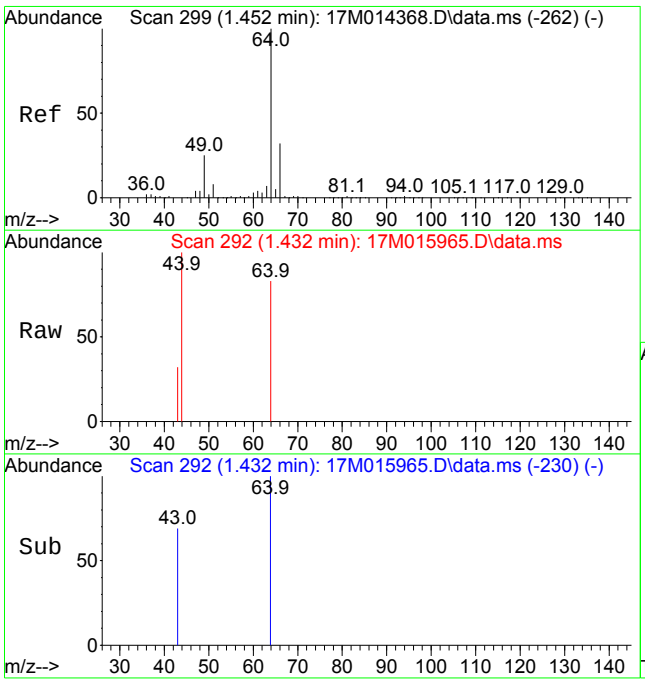
Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015965.D
Acq On : 22 Oct 2015 21:57
Operator : ADC
Sample : L15101278-07 A 826-SPE
Misc : 1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 25 12:50:35 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration



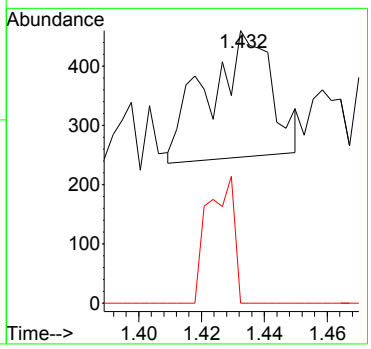
826VMS.M Sun Oct 25 12:50:36 2015 Page: 2

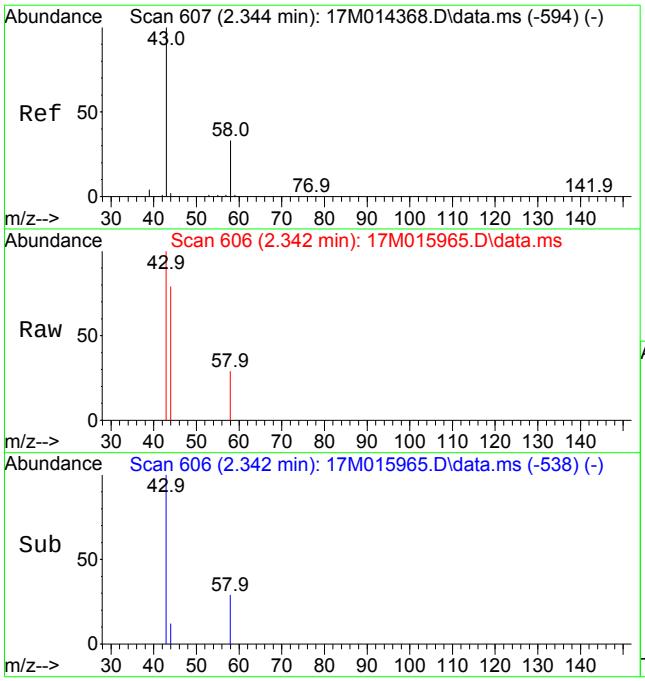


#7
Chloroethane
Concen: Below Cal
RT: 1.432 min Scan# 292
Delta R.T. -0.020 min
Lab File: 17M015965.D
Acq: 22 Oct 2015 21:57

Tgt Ion: 64 Resp: 298

Ion	Ratio	Lower	Upper
64	100		
49	41.6	15.2	35.4#

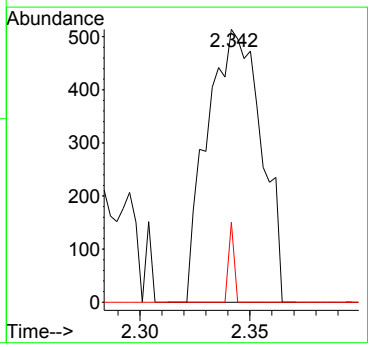


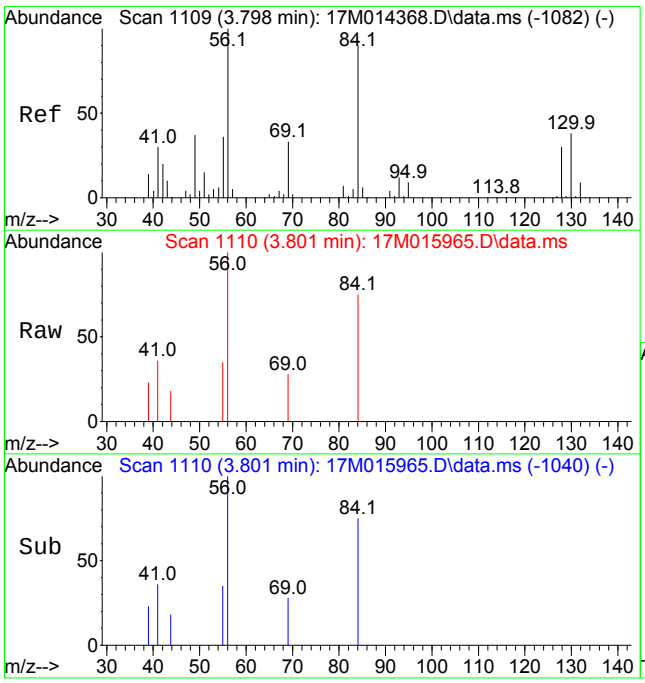


#16
Acetone
Concen: 1.1096 ug/L
RT: 2.342 min Scan# 606
Delta R.T. -0.002 min
Lab File: 17M015965.D
Acq: 22 Oct 2015 21:57

Tgt Ion: 43 Resp: 876

Ion	Ratio	Lower	Upper
43	100		
58	0.0	21.7	50.7#

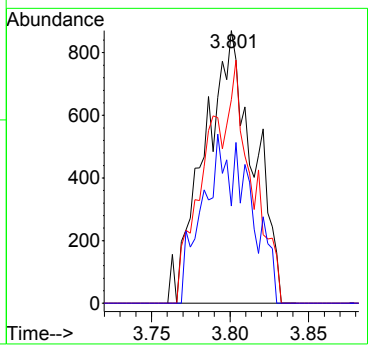


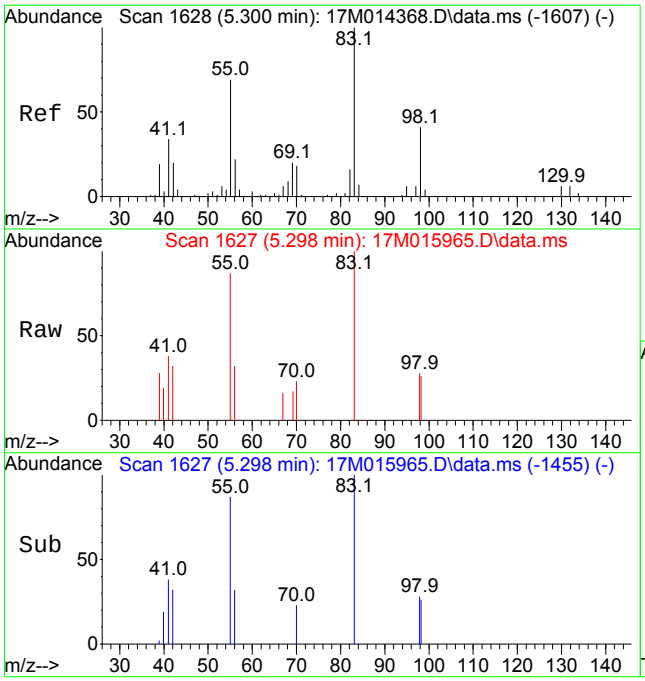


#25
Cyclohexane
Concen: 0.2381 ug/L
RT: 3.801 min Scan# 1110
Delta R.T. 0.003 min
Lab File: 17M015965.D
Acq: 22 Oct 2015 21:57

Tgt Ion: 56 Resp: 1891

Ion	Ratio	Lower	Upper
56	100		
84	81.9	71.4	107.0
41	58.4	41.2	61.8

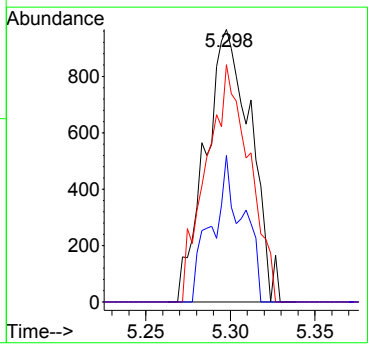


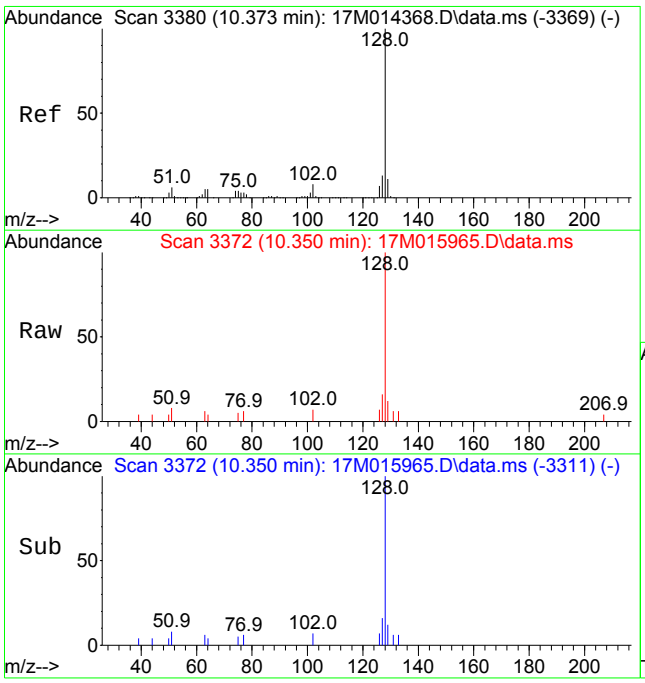


#36
Methylcyclohexane
Concen: 0.1983 ug/L
RT: 5.298 min Scan# 1627
Delta R.T. -0.002 min
Lab File: 17M015965.D
Acq: 22 Oct 2015 21:57

Tgt Ion: 83 Resp: 1788

Ion	Ratio	Lower	Upper
83	100		
55	82.8	55.8	83.8
98	36.8	34.2	51.2

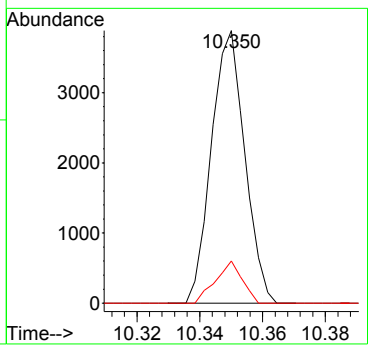




#85
Naphthalene
Concen: 0.1782 ug/L
RT: 10.350 min Scan# 3372
Delta R.T. -0.023 min
Lab File: 17M015965.D
Acq: 22 Oct 2015 21:57

Tgt Ion:128 Resp: 2872

Ion	Ratio	Lower	Upper
128	100		
127	12.4	7.9	18.3



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\102315\8M408246.D Vial: 21
Acq On : 23 Oct 2015 20:03 Operator: TMB
Sample : L15101278-08 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 08:49:40 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

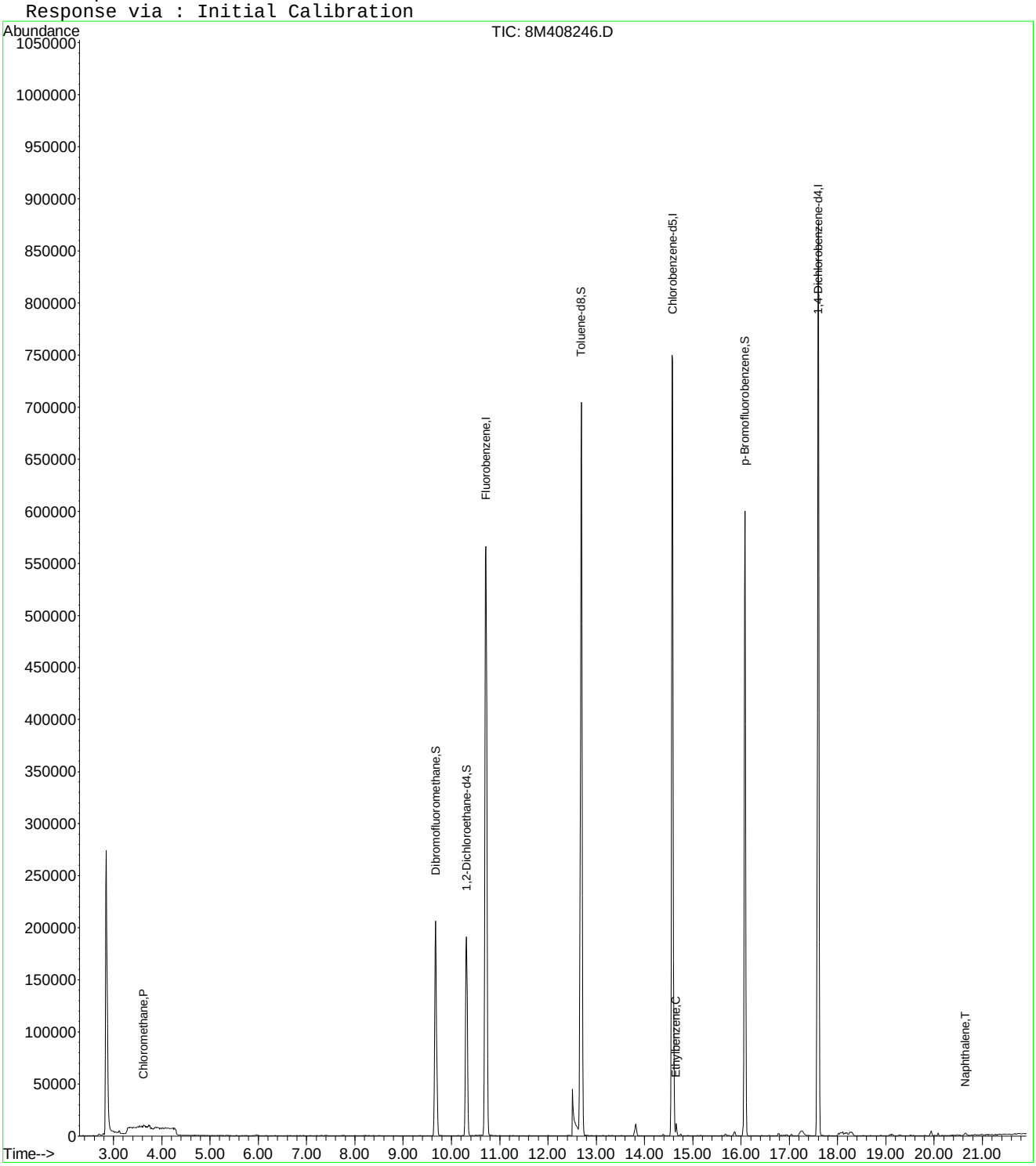
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	681539	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	524832	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	288723	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	168453	25.9699	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 103.88%			
43) 1,2-Dichloroethane-d4	10.32	65	171249	25.8940	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 103.56%			
58) Toluene-d8	12.69	98	606894	24.9226	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.68%			
80) p-Bromofluorobenzene	16.08	95	248183	24.6360	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.56%			
Target Compounds						Qvalue
3) Chloromethane	3.63	50	5253	0.3323	ug/L	93
72) Ethylbenzene	14.66	106	3661	0.3145	ug/L	97
100) Naphthalene	20.65	128	3364	0.2285	ug/L #	67

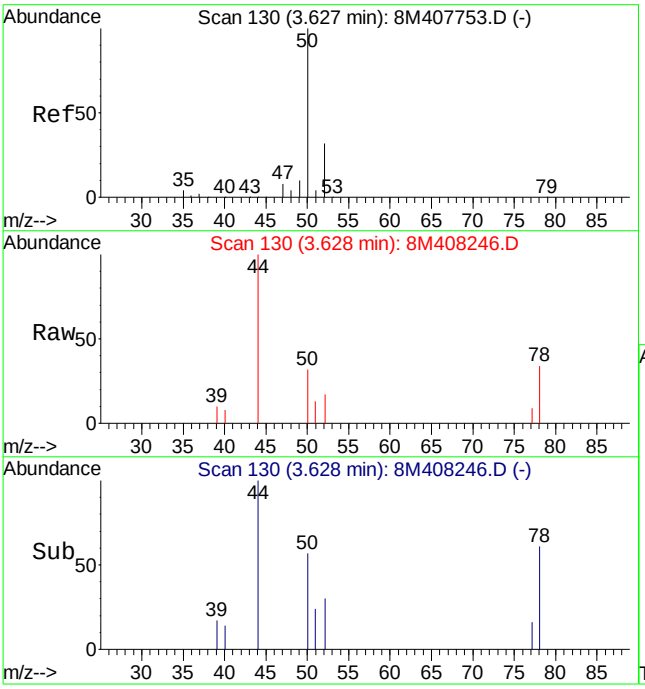
(#) = qualifier out of range (m) = manual integration
8M408246.D 8260WT.M Sat Oct 24 08:49:41 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\102315\8M408246.D Vial: 21
Acq On : 23 Oct 2015 20:03 Operator: TMB
Sample : L15101278-08 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:49 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration

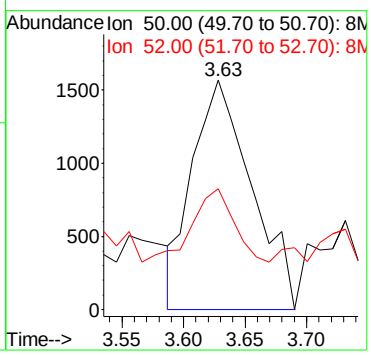


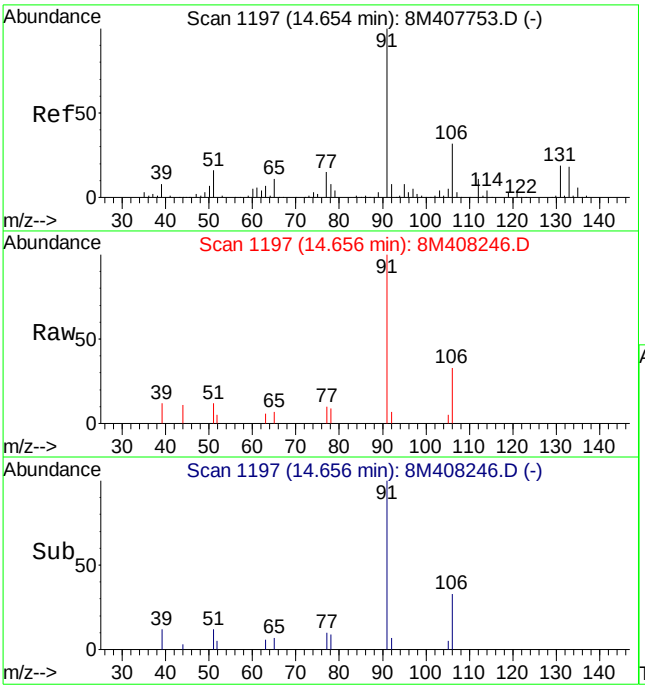


#3
Chloromethane
Concen: 0.33 ug/L
RT: 3.63 min Scan# 130
Delta R.T. 0.01 min
Lab File: 8M408246.D
Acq: 23 Oct 2015 20:03

Tgt Ion: 50 Resp: 5253

Ion	Ratio	Lower	Upper
50	100		
52	35.8	19.2	44.8

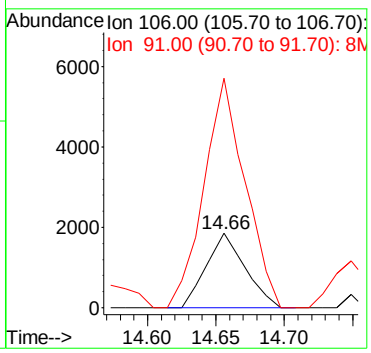


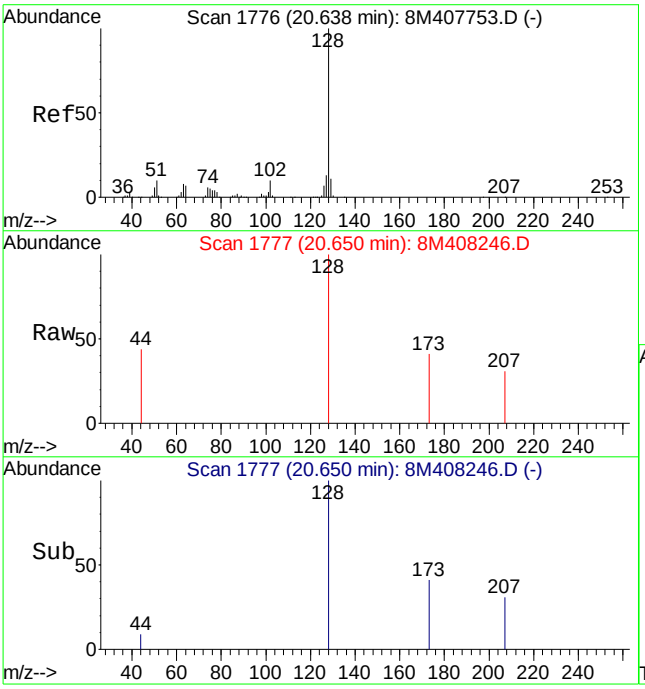


#72
Ethylbenzene
Concen: 0.31 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.01 min
Lab File: 8M408246.D
Acq: 23 Oct 2015 20:03

Tgt Ion:106 Resp: 3661

Ion	Ratio	Lower	Upper
106	100		
91	325.9	199.7	466.1

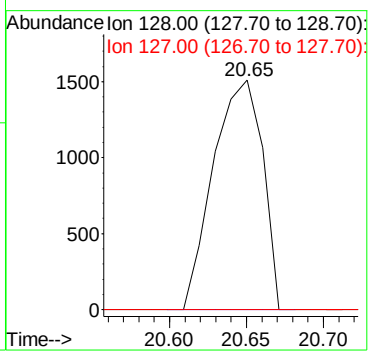




#100
Naphthalene
Concen: 0.23 ug/L
RT: 20.65 min Scan# 1777
Delta R.T. 0.00 min
Lab File: 8M408246.D
Acq: 23 Oct 2015 20:03

Tgt Ion:128 Resp: 3364

Ion	Ratio	Lower	Upper
128	100		
127	0.0	8.0	18.6#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\102315\8M408245.D Vial: 20
Acq On : 23 Oct 2015 19:34 Operator: TMB
Sample : L15101278-09 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 08:49:38 2015 Quant Results File: 8260WT.RES

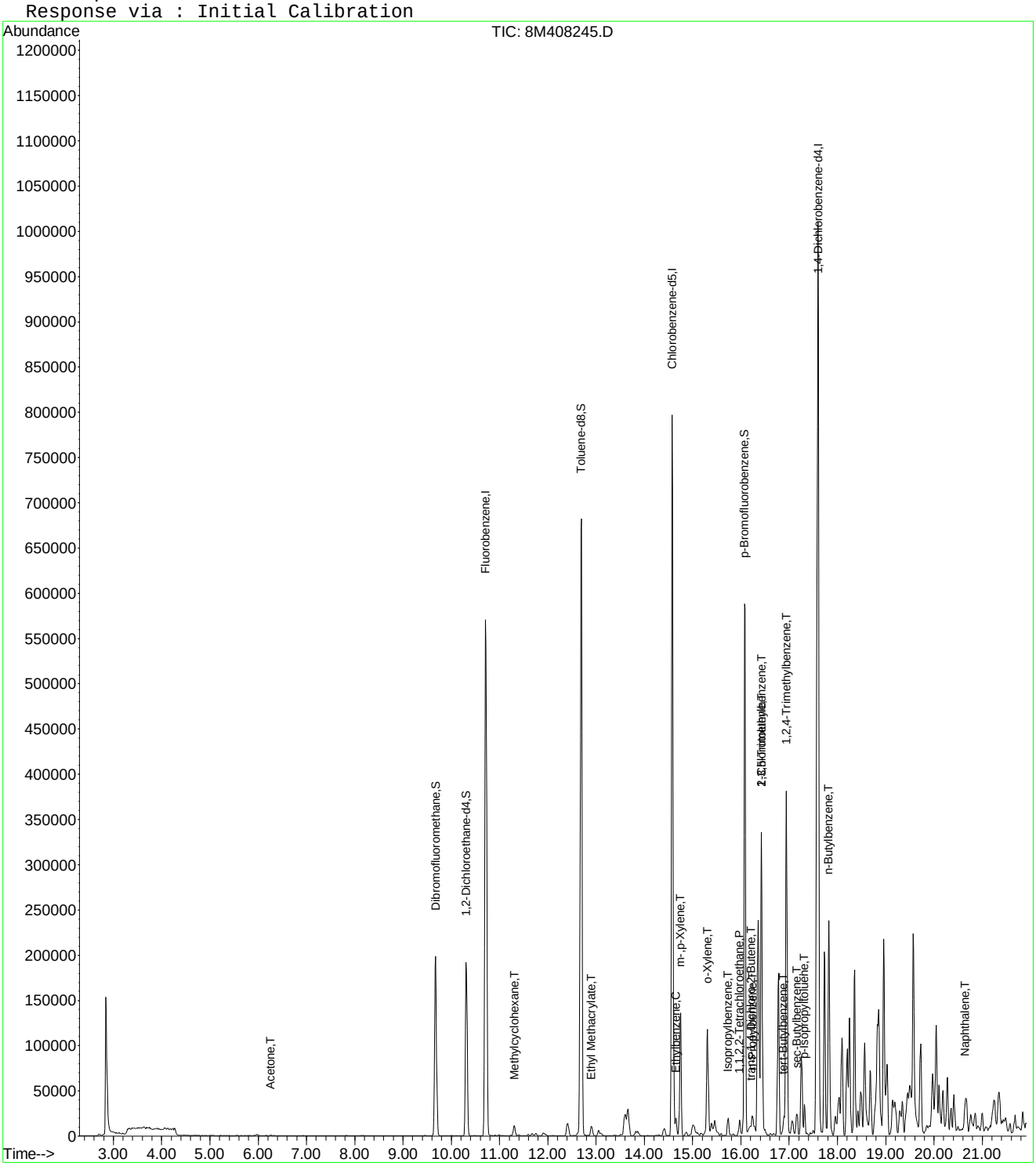
Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

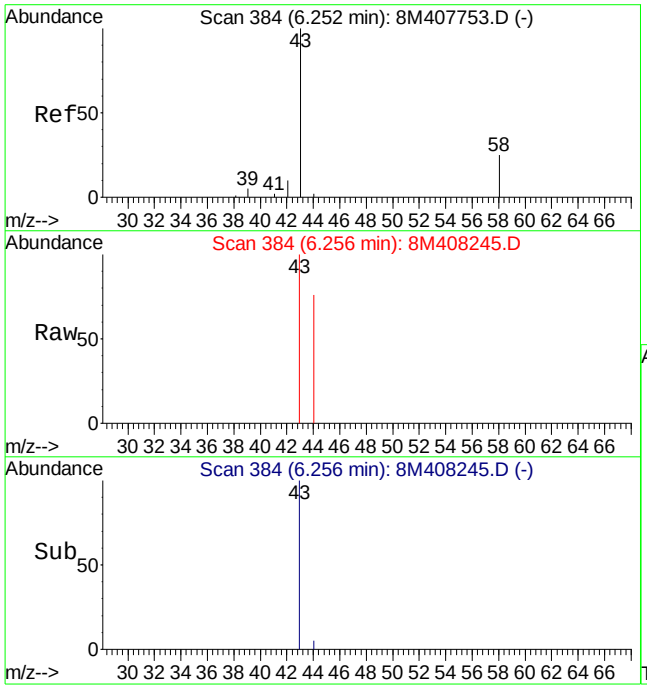
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.71	96	673620	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	525397	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	296362	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.68	111	168348	26.2588 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 105.04%		
43) 1,2-Dichloroethane-d4	10.31	65	172333	26.3642 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 105.44%		
58) Toluene-d8	12.69	98	599659	24.5990 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.40%		
80) p-Bromofluorobenzene	16.07	95	253793	24.5435 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.16%		
Target Compounds					Qvalue
13) Acetone	6.26	43	1279	1.2792 ug/L #	48
48) Methylcyclohexane	11.31	83	7204	0.6519 ug/L	90
60) Ethyl Methacrylate	12.90	69	1976	0.3320 ug/L #	1
72) Ethylbenzene	14.66	106	2474	0.2123 ug/L	73
73) m-,p-Xylene	14.75	106	51928	3.8856 ug/L	100
74) o-Xylene	15.31	106	40649	3.0078 ug/L	99
77) Isopropylbenzene	15.73	105	17264	0.5325 ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.97	83	1741	0.3184 ug/L #	26
82) trans-1,4-Dichloro-2-Buten	16.21	53	251	0.1249 ug/L #	9
83) n-Propylbenzene	16.24	91	20077	0.4679 ug/L	95
85) 1,3,5-Trimethylbenzene	16.43	105	249483	8.4569 ug/L	98
86) 2-Chlorotoluene	16.43	91	29095	1.0237 ug/L #	42
89) tert-Butylbenzene	16.88	134	901	0.1388 ug/L #	1
90) 1,2,4-Trimethylbenzene	16.94	105	275381	9.2377 ug/L	87
91) sec-Butylbenzene	17.16	105	24452	0.6672 ug/L	97
92) p-Isopropyltoluene	17.31	119	24966	0.8521 ug/L	97
95) n-Butylbenzene	17.82	91	44505	1.6294 ug/L #	1
100) Naphthalene	20.64	128	15576	1.0308 ug/L	97

(#) = qualifier out of range (m) = manual integration
8M408245.D 8260WT.M Sat Oct 24 08:49:38 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\102315\8M408245.D Vial: 20
Acq On : 23 Oct 2015 19:34 Operator: TMB
Sample : L15101278-09 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:49 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration

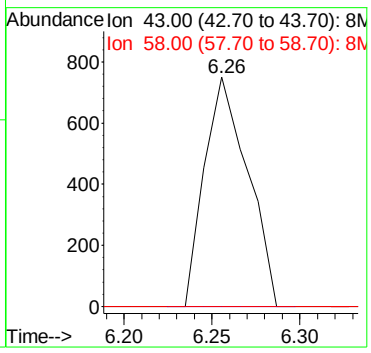


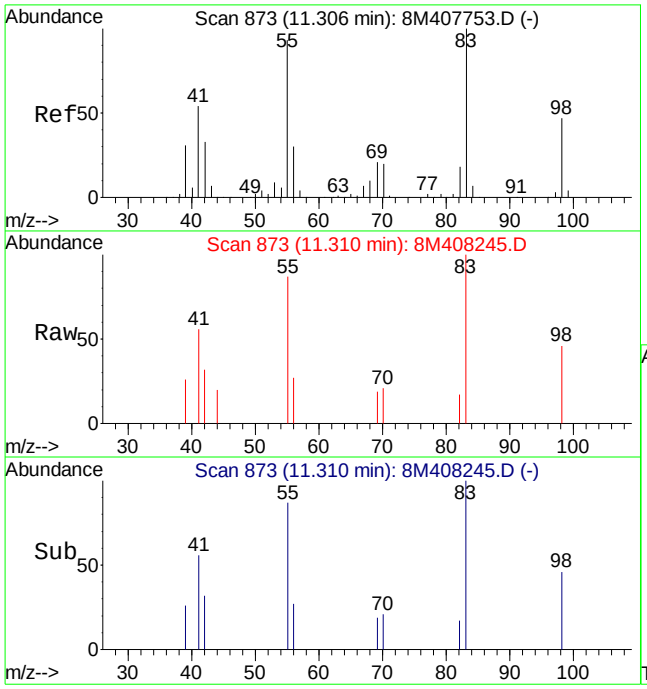


#13
Acetone
Concen: 1.28 ug/L
RT: 6.26 min Scan# 384
Delta R.T. 0.01 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion: 43 Resp: 1279

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#

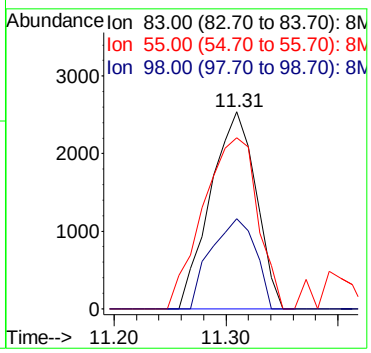


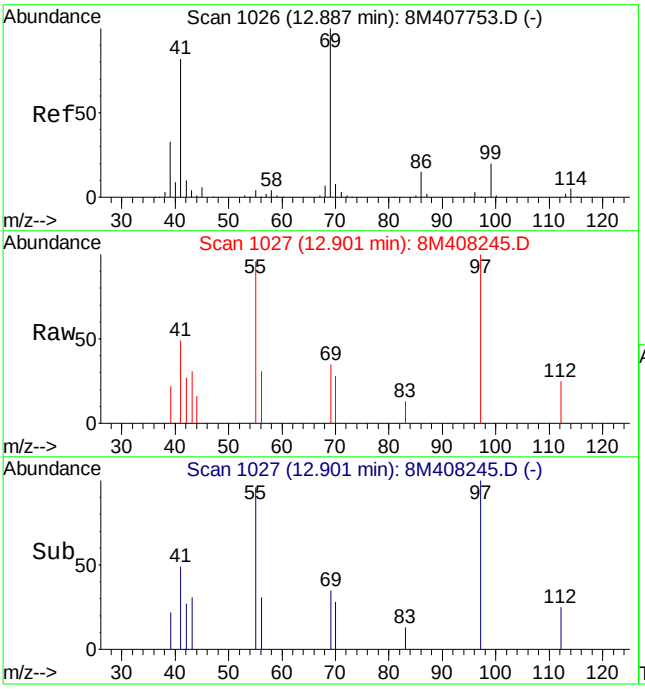


#48
Methylcyclohexane
Concen: 0.65 ug/L
RT: 11.31 min Scan# 873
Delta R.T. 0.01 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion: 83 Resp: 7204

Ion	Ratio	Lower	Upper
83	100		
55	103.6	54.8	128.0
98	44.6	29.0	67.8

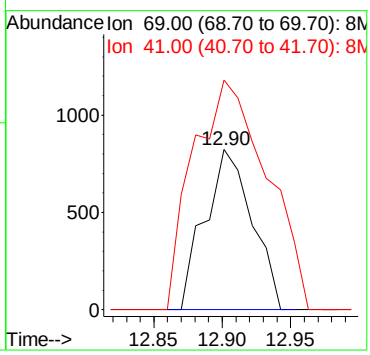


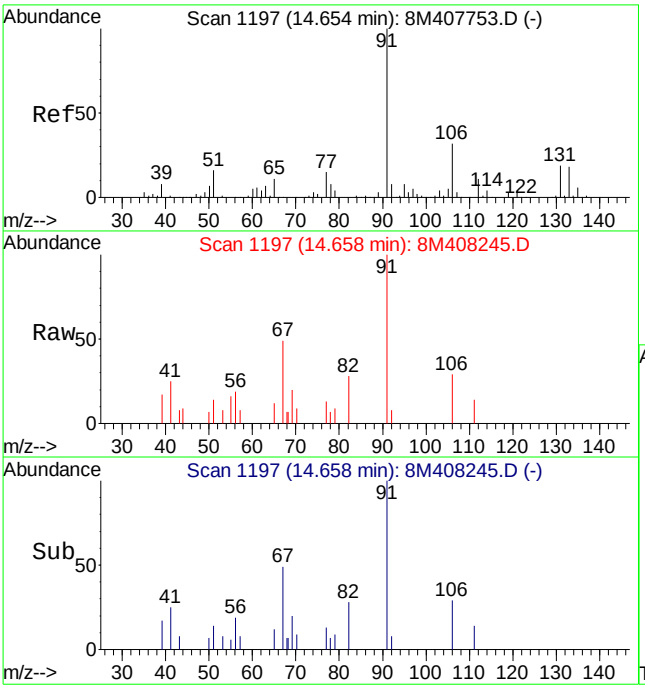


#60
Ethyl Methacrylate
Concen: 0.33 ug/L
RT: 12.90 min Scan# 1027
Delta R.T. 0.02 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion: 69 Resp: 1976

Ion	Ratio	Lower	Upper
69	100		
41	223.9	48.5	113.3#

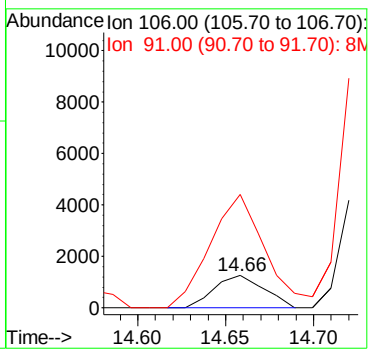


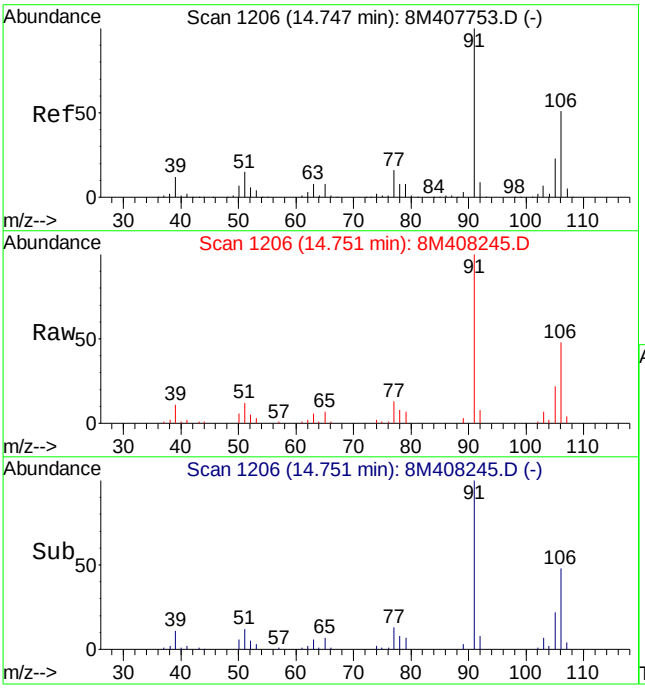


#72
Ethylbenzene
Concen: 0.21 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.00 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion:106 Resp: 2474

Ion	Ratio	Lower	Upper
106	100		
91	389.8	199.7	466.1

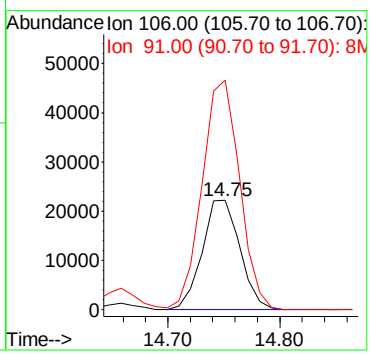


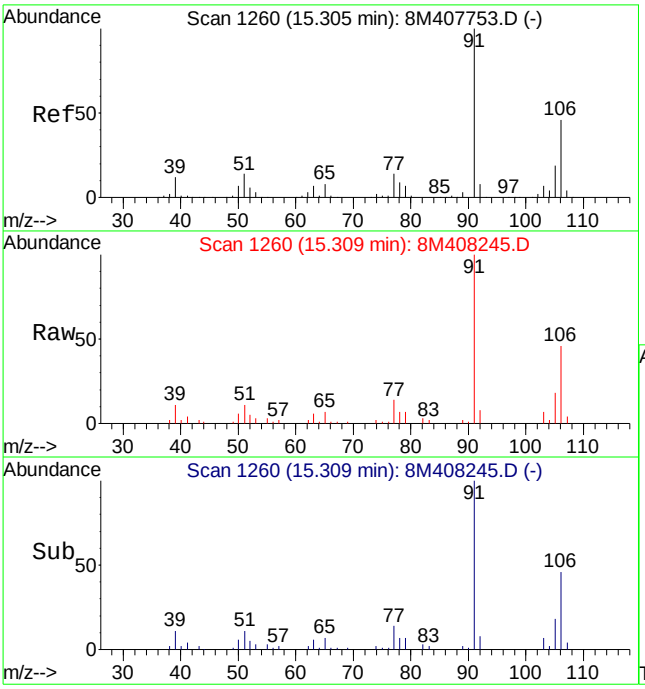


#73
m-,p-Xylene
Concen: 3.89 ug/L
RT: 14.75 min Scan# 1206
Delta R.T. 0.01 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion:106 Resp: 51928

Ion	Ratio	Lower	Upper
106	100		
91	208.9	125.1	291.9

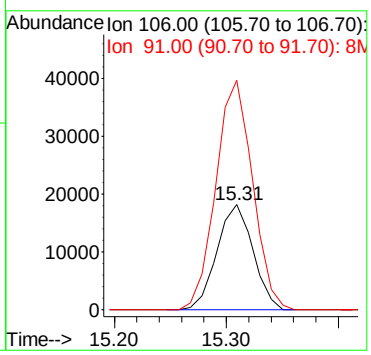


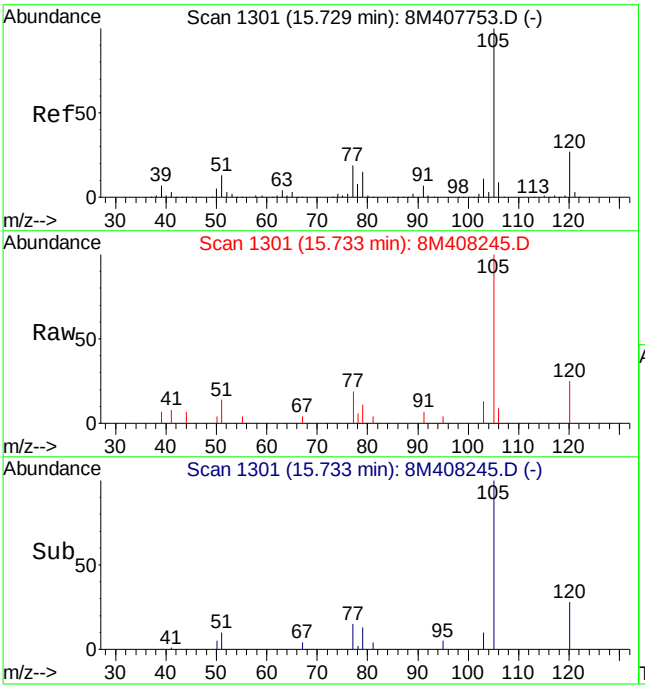


#74
o-Xylene
Concen: 3.01 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. -0.00 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion:106 Resp: 40649

Ion	Ratio	Lower	Upper
106	100		
91	222.5	134.3	313.5

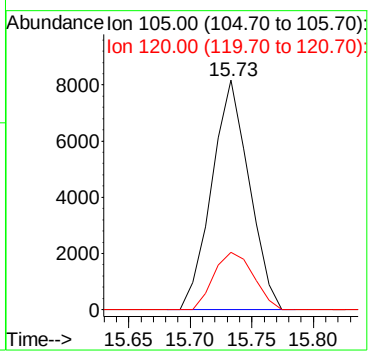


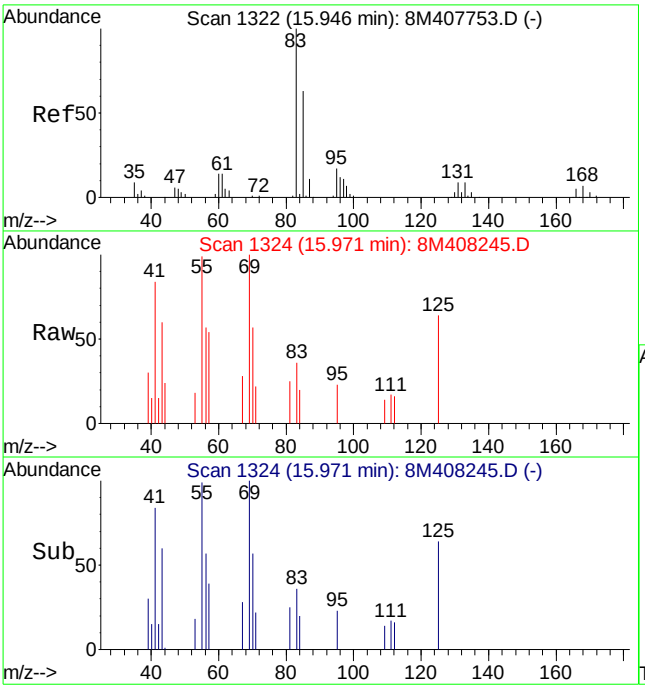


#77
Isopropylbenzene
Concen: 0.53 ug/L
RT: 15.73 min Scan# 1301
Delta R.T. -0.00 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion:105 Resp: 17264

Ion	Ratio	Lower	Upper
105	100		
120	26.4	16.0	37.2

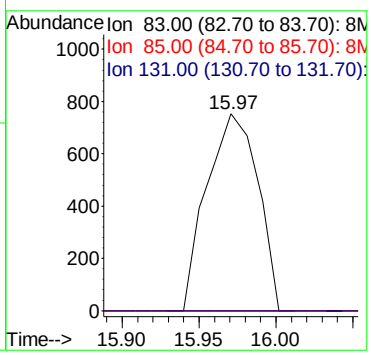


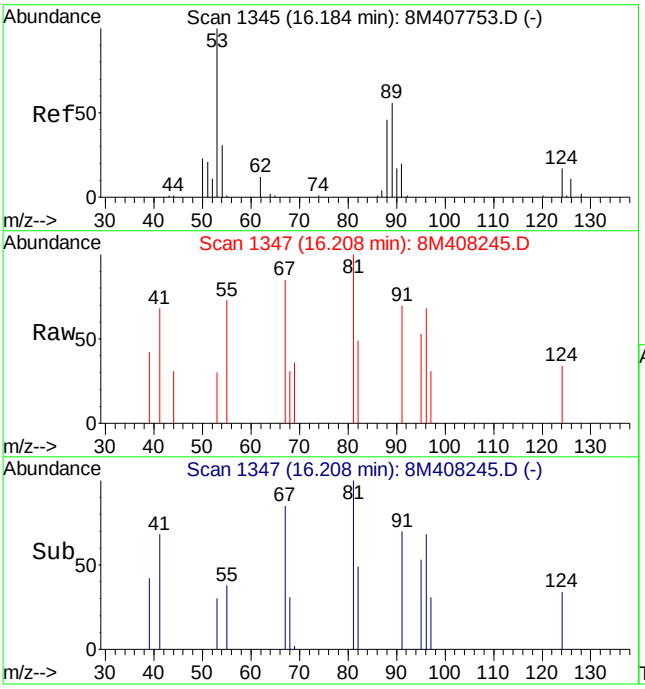


#79
1,1,2,2-Tetrachloroethane
Concen: 0.32 ug/L
RT: 15.97 min Scan# 1324
Delta R.T. 0.03 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion: 83 Resp: 1741

Ion	Ratio	Lower	Upper
83	100		
85	0.0	38.3	89.3#
131	0.0	5.8	13.4#

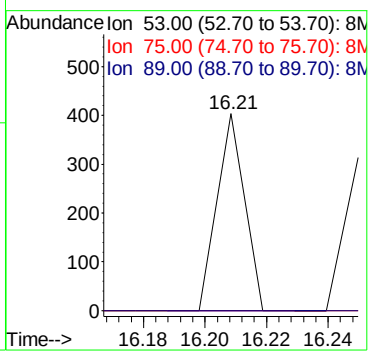


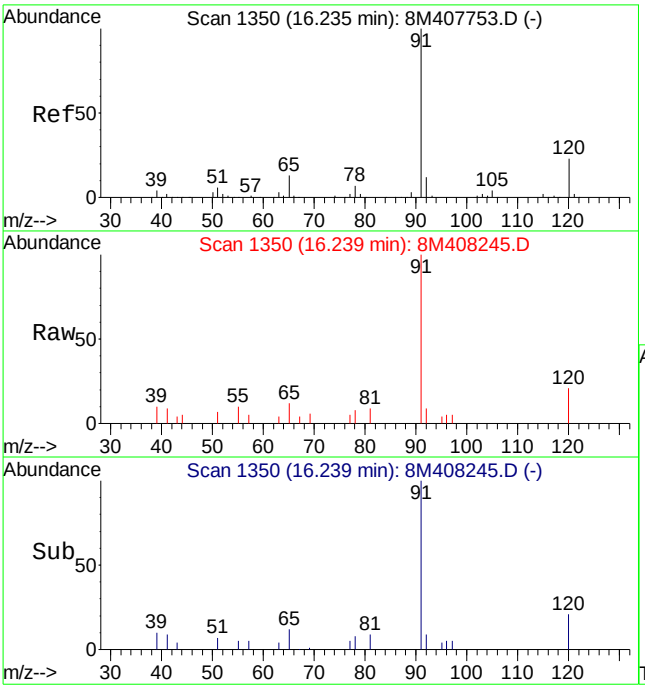


#82
trans-1,4-Dichloro-2-Butene
Concen: 0.12 ug/L
RT: 16.21 min Scan# 1347
Delta R.T. 0.02 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion: 53 Resp: 251

Ion	Ratio	Lower	Upper
53	100		
75	0.0	58.5	136.5#
89	0.0	33.5	78.1#

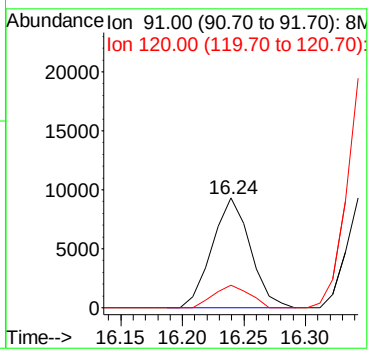


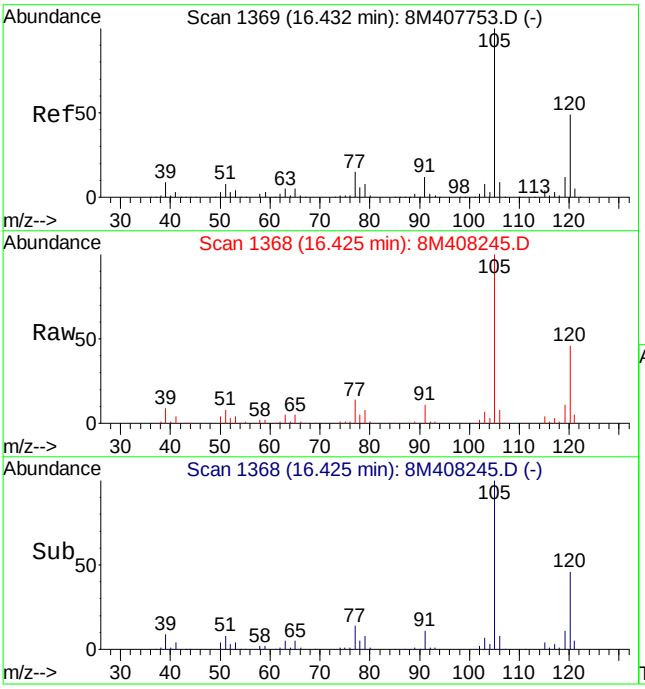


#83
n-Propylbenzene
Concen: 0.47 ug/L
RT: 16.24 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion: 91 Resp: 20077

Ion	Ratio	Lower	Upper
91	100		
120	19.2	13.1	30.5

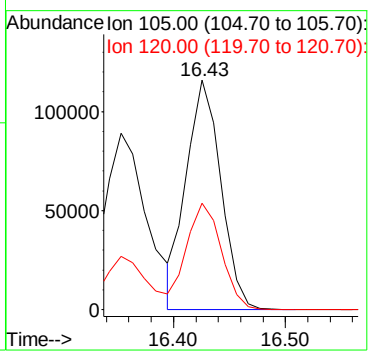


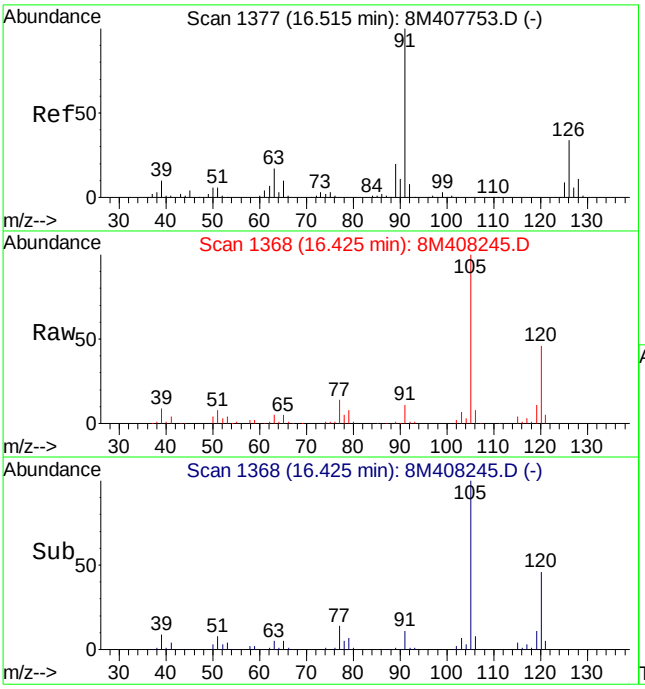


#85
1,3,5-Trimethylbenzene
Concen: 8.46 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.00 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion:105 Resp: 249483

Ion	Ratio	Lower	Upper
105	100		
120	46.7	28.8	67.2

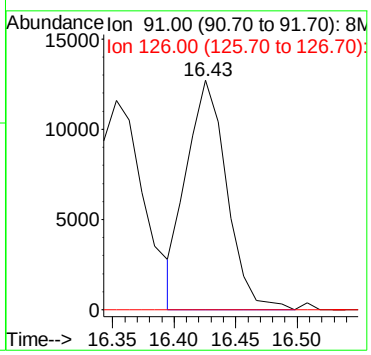


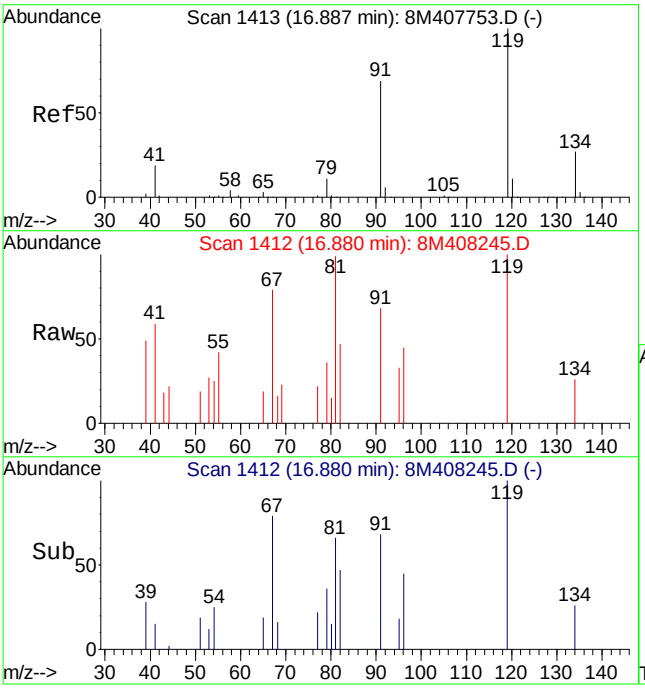


#86
2-Chlorotoluene
Concen: 1.02 ug/L
RT: 16.43 min Scan# 1368
Delta R.T. -0.09 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion: 91 Resp: 29095

Ion	Ratio	Lower	Upper
91	100		
126	0.0	19.4	45.4#

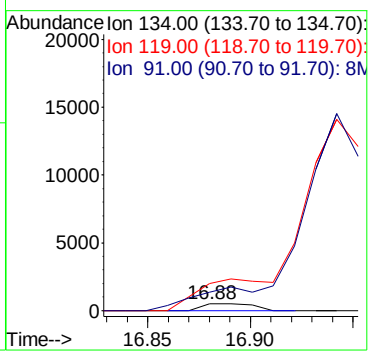


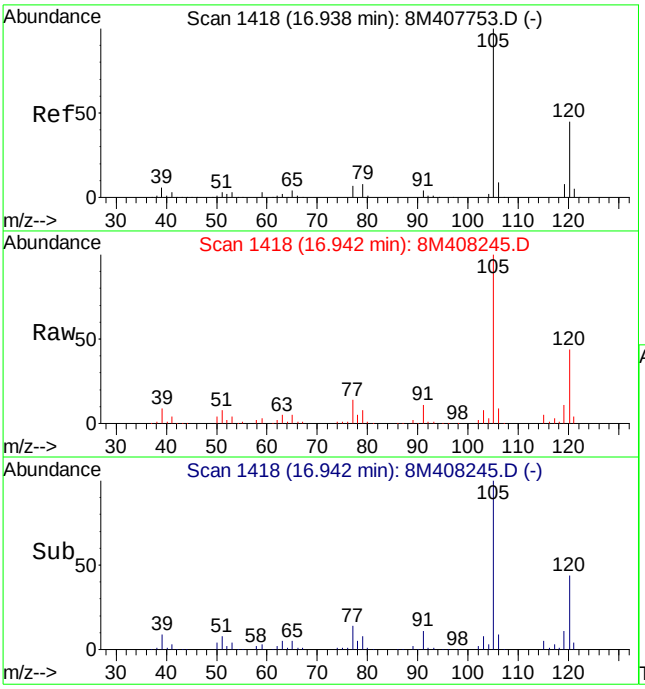


#89
tert-Butylbenzene
Concen: 0.14 ug/L
RT: 16.88 min Scan# 1412
Delta R.T. -0.01 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion:134 Resp: 901

Ion	Ratio	Lower	Upper
134	100		
119	4183.9	293.9	685.7#
91	3827.7	214.9	501.3#

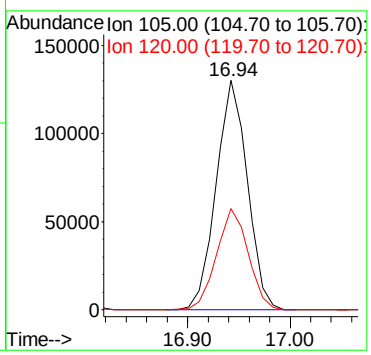


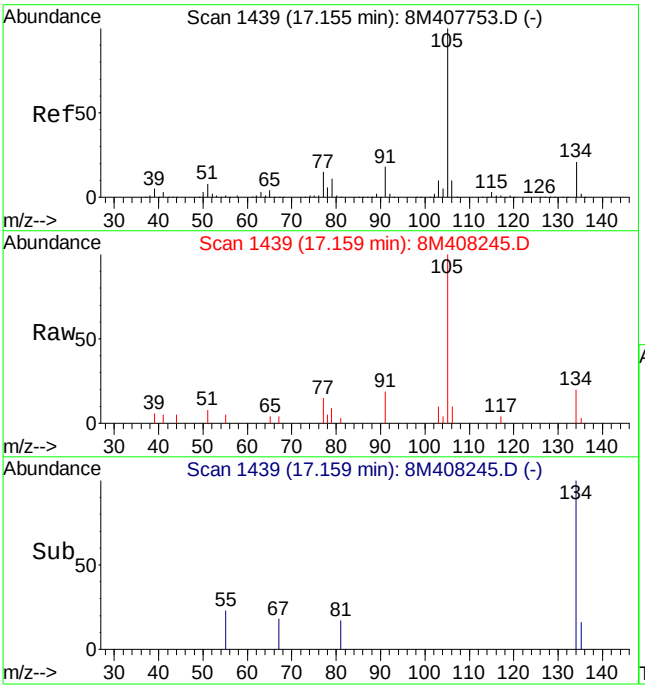


#90
1,2,4-Trimethylbenzene
Concen: 9.24 ug/L
RT: 16.94 min Scan# 1418
Delta R.T. -0.00 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion:105 Resp: 275381

Ion	Ratio	Lower	Upper
105	100		
120	44.7	32.3	75.5

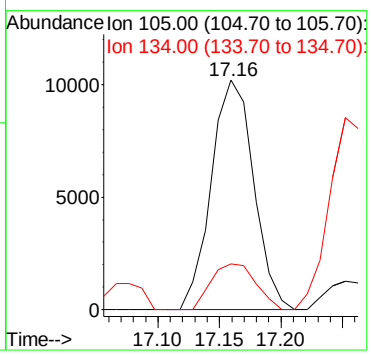


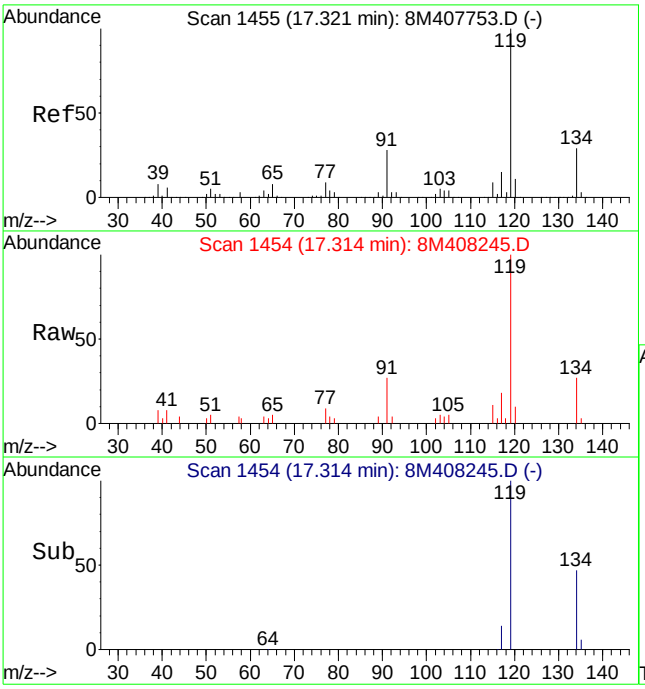


#91
sec-Butylbenzene
Concen: 0.67 ug/L
RT: 17.16 min Scan# 1439
Delta R.T. -0.00 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion:105 Resp: 24452

Ion	Ratio	Lower	Upper
105	100		
134	20.9	11.8	27.4

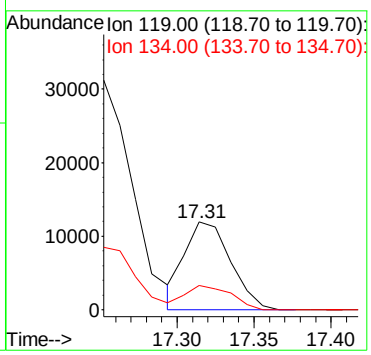


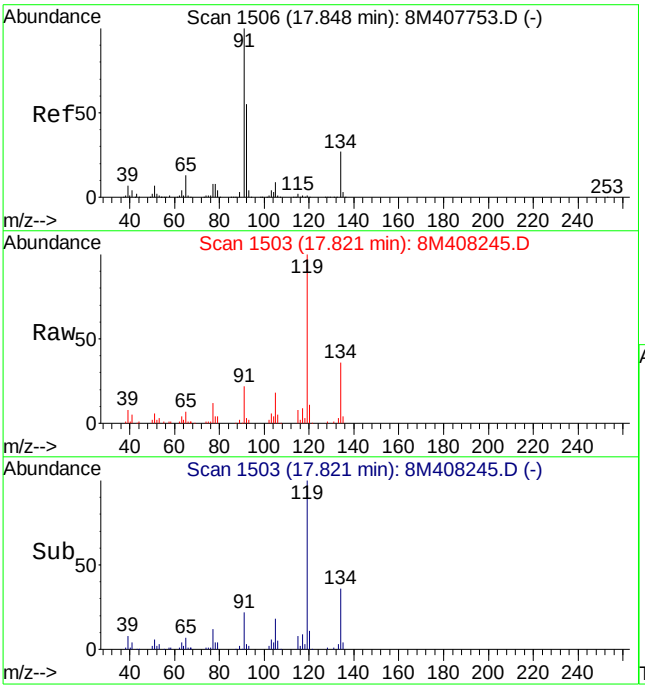


#92
p-Isopropyltoluene
Concen: 0.85 ug/L
RT: 17.31 min Scan# 1454
Delta R.T. -0.00 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion:119 Resp: 24966

Ion	Ratio	Lower	Upper
119	100		
134	27.6	15.8	36.8

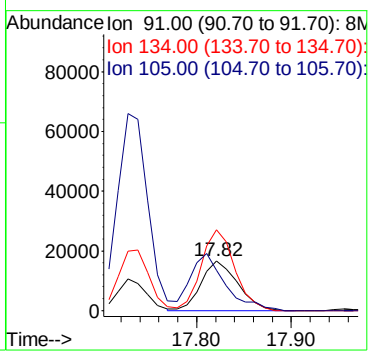


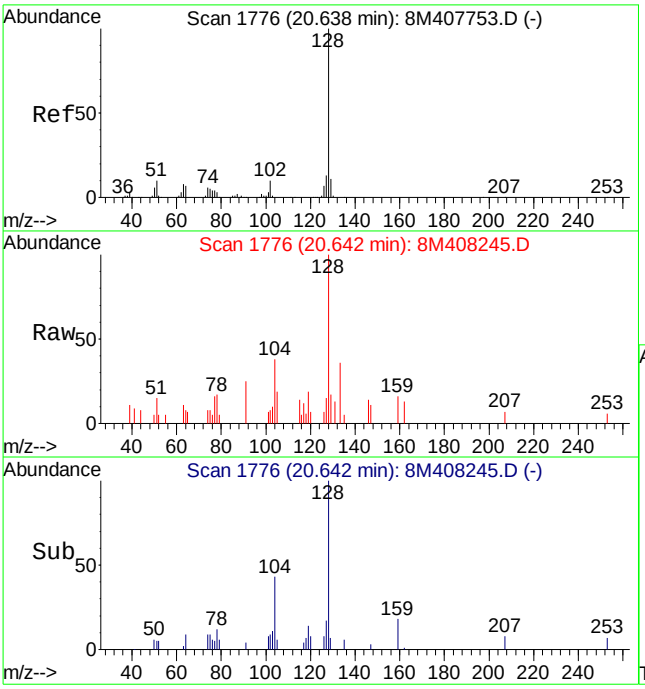


#95
n-Butylbenzene
Concen: 1.63 ug/L
RT: 17.82 min Scan# 1503
Delta R.T. -0.02 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion: 91 Resp: 44505

Ion	Ratio	Lower	Upper
91	100		
134	148.5	14.4	33.6#
105	107.6	5.0	11.8#

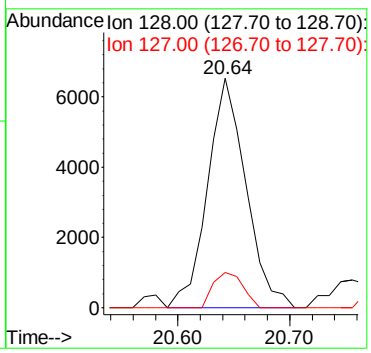




#100
Naphthalene
Concen: 1.03 ug/L
RT: 20.64 min Scan# 1776
Delta R.T. -0.00 min
Lab File: 8M408245.D
Acq: 23 Oct 2015 19:34

Tgt Ion:128 Resp: 15576

Ion	Ratio	Lower	Upper
128	100		
127	11.9	8.0	18.6



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\102315\8M408243.D Vial: 18
Acq On : 23 Oct 2015 18:34 Operator: TMB
Sample : L15101278-10 A REF 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 08:49:33 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

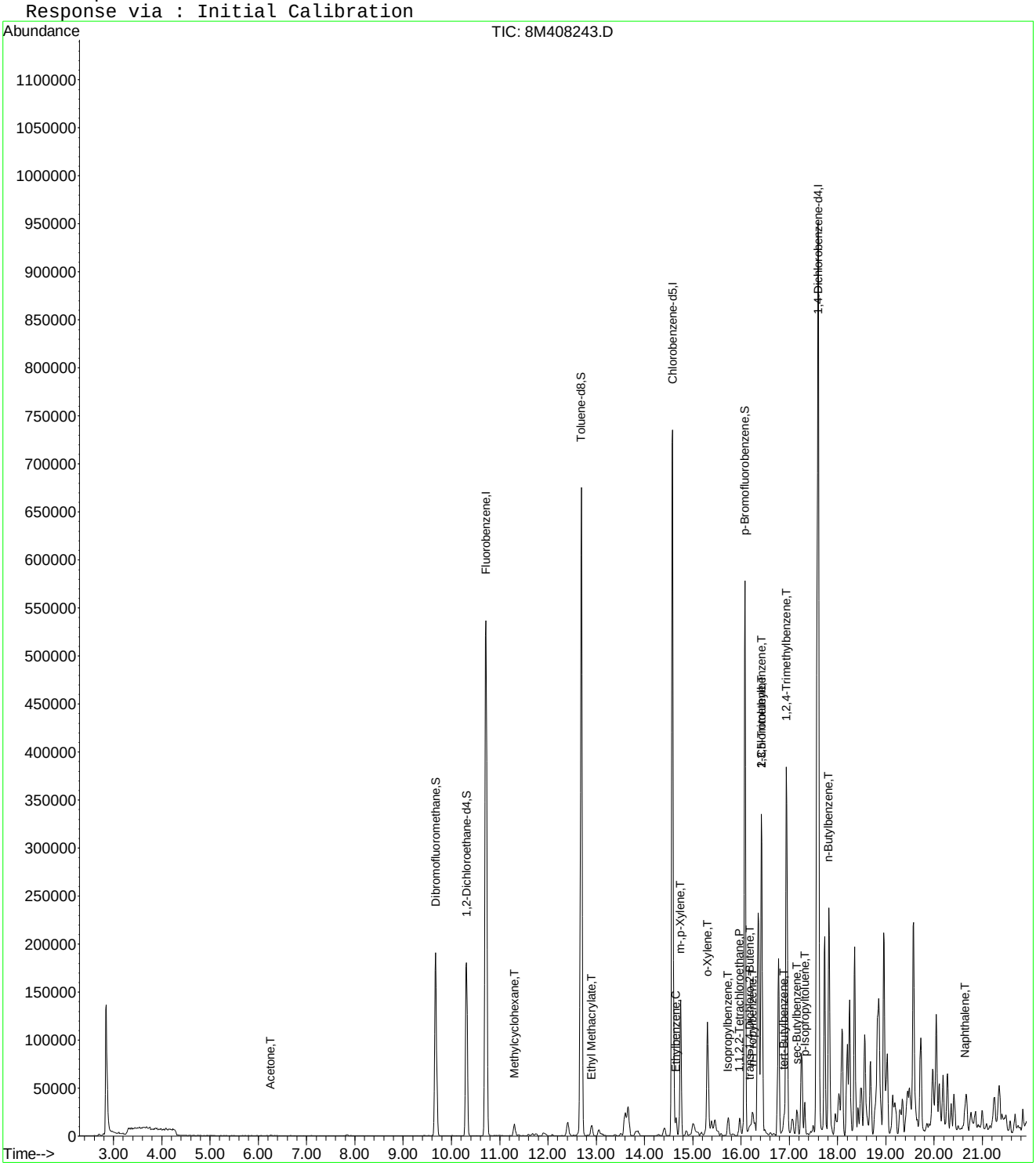
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	643031	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	500150	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	285946	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	161373	26.3682	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 105.48%			
43) 1,2-Dichloroethane-d4	10.31	65	164436	26.3528	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 105.40%			
58) Toluene-d8	12.69	98	574631	24.7622	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.04%			
80) p-Bromofluorobenzene	16.08	95	237358	23.7903	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 95.16%			
Target Compounds						Qvalue
13) Acetone	6.25	43	1508	1.5800	ug/L #	48
48) Methylcyclohexane	11.31	83	7607	0.7211	ug/L	98
60) Ethyl Methacrylate	12.91	69	1585	0.2797	ug/L #	1
72) Ethylbenzene	14.66	106	2490	0.2245	ug/L	94
73) m-,p-Xylene	14.75	106	52059	4.0920	ug/L	100
74) o-Xylene	15.31	106	39218	3.0484	ug/L	99
77) Isopropylbenzene	15.73	105	17561	0.5690	ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.97	83	1284	0.2434	ug/L #	26
82) trans-1,4-Dichloro-2-Buten	16.19	53	836	0.4312	ug/L #	9
83) n-Propylbenzene	16.24	91	20331	0.4911	ug/L	95
85) 1,3,5-Trimethylbenzene	16.42	105	254364	8.9364	ug/L	99
86) 2-Chlorotoluene	16.42	91	29240	1.0663	ug/L #	42
89) tert-Butylbenzene	16.89	134	1008	0.1610	ug/L #	1
90) 1,2,4-Trimethylbenzene	16.94	105	284124	9.8781	ug/L	86
91) sec-Butylbenzene	17.16	105	25080	0.7093	ug/L	98
92) p-Isopropyltoluene	17.32	119	26545	0.9390	ug/L	96
95) n-Butylbenzene	17.82	91	45261	1.7174	ug/L #	1
100) Naphthalene	20.64	128	16286	1.1171	ug/L	97

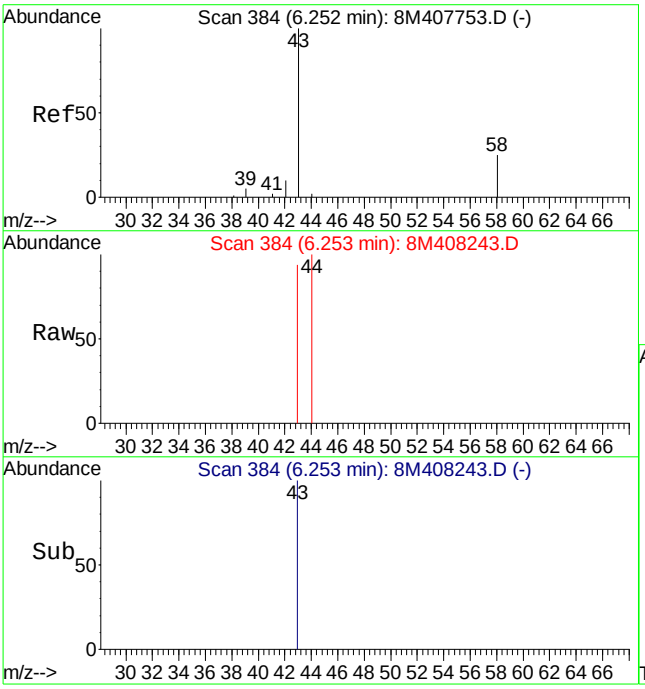
(#) = qualifier out of range (m) = manual integration
8M408243.D 8260WT.M Sat Oct 24 08:49:34 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\102315\8M408243.D Vial: 18
Acq On : 23 Oct 2015 18:34 Operator: TMB
Sample : L15101278-10 A REF 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:49 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration

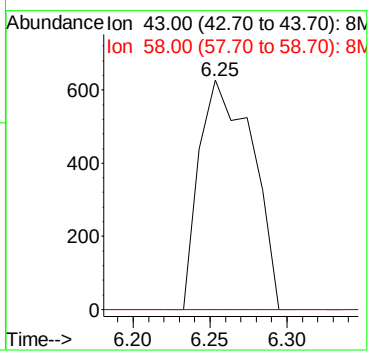


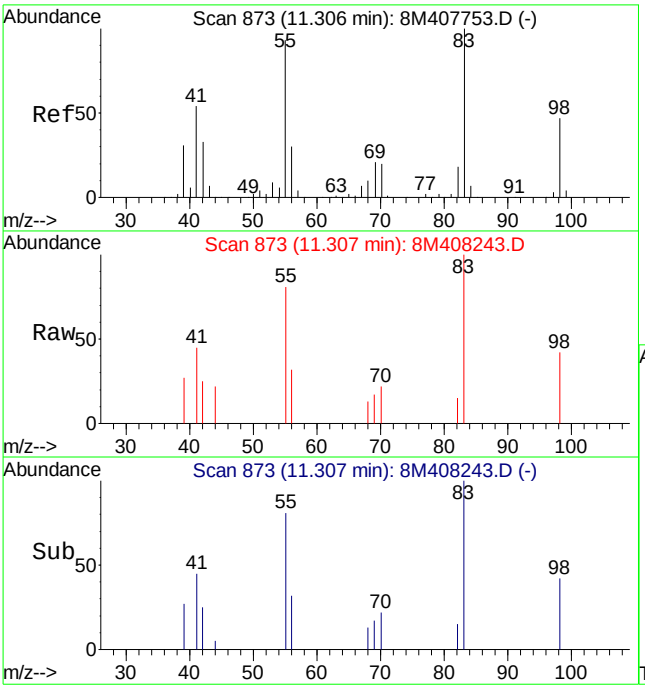


#13
Acetone
Concen: 1.58 ug/L
RT: 6.25 min Scan# 384
Delta R.T. 0.01 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion: 43 Resp: 1508

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#

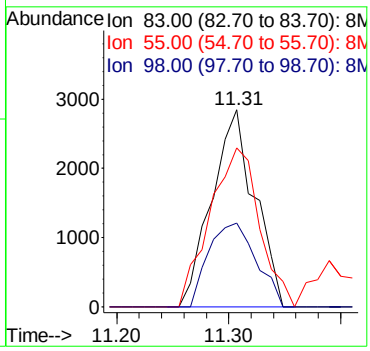


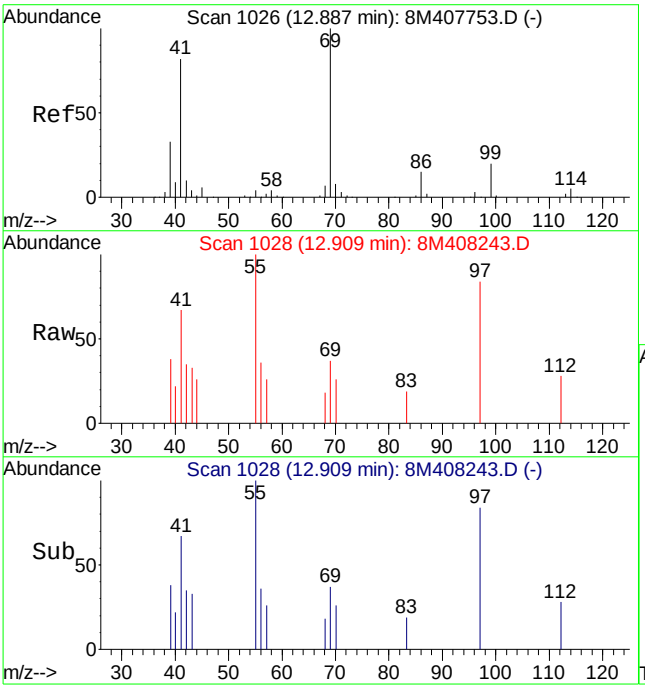


#48
Methylcyclohexane
Concen: 0.72 ug/L
RT: 11.31 min Scan# 873
Delta R.T. 0.01 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion: 83 Resp: 7607

Ion	Ratio	Lower	Upper
83	100		
55	92.7	54.8	128.0
98	46.9	29.0	67.8

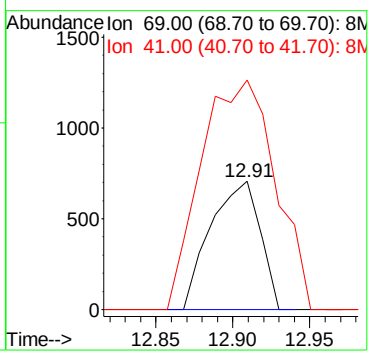


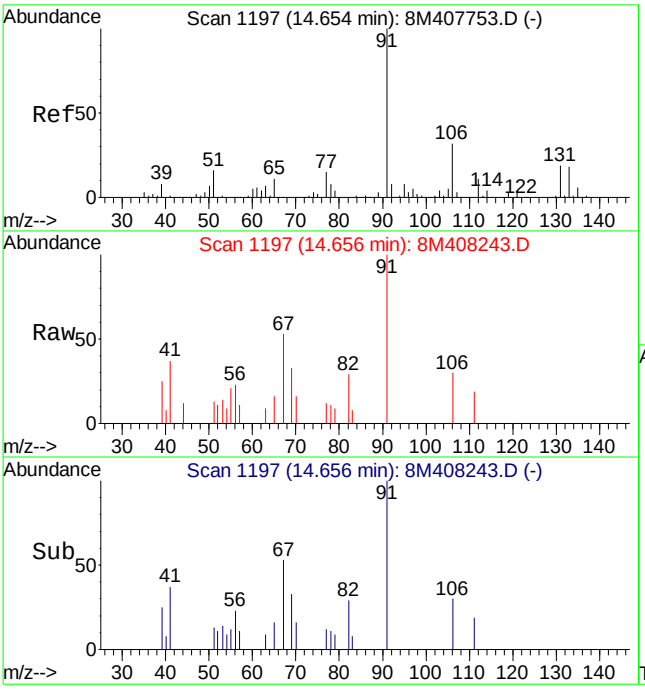


#60
Ethyl Methacrylate
Concen: 0.28 ug/L
RT: 12.91 min Scan# 1028
Delta R.T. 0.03 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion: 69 Resp: 1585

Ion	Ratio	Lower	Upper
69	100		
41	267.7	48.5	113.3#

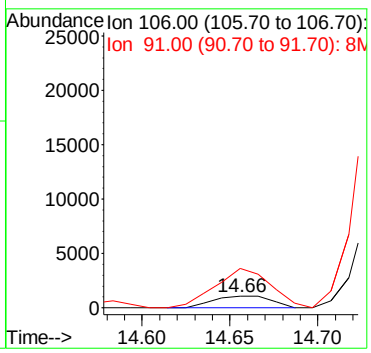


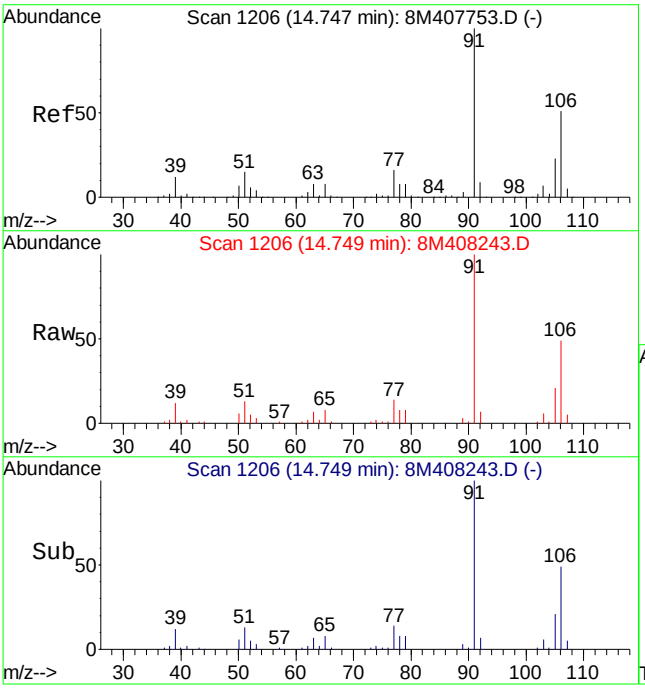


#72
Ethylbenzene
Concen: 0.22 ug/L
RT: 14.66 min Scan# 1197
Delta R.T. -0.01 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion:106 Resp: 2490

Ion	Ratio	Lower	Upper
106	100		
91	320.1	199.7	466.1

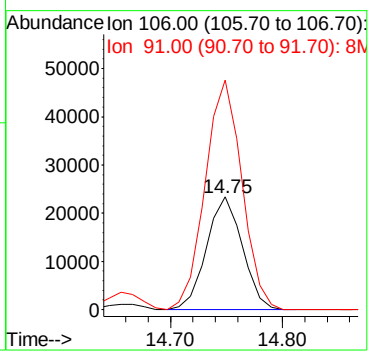


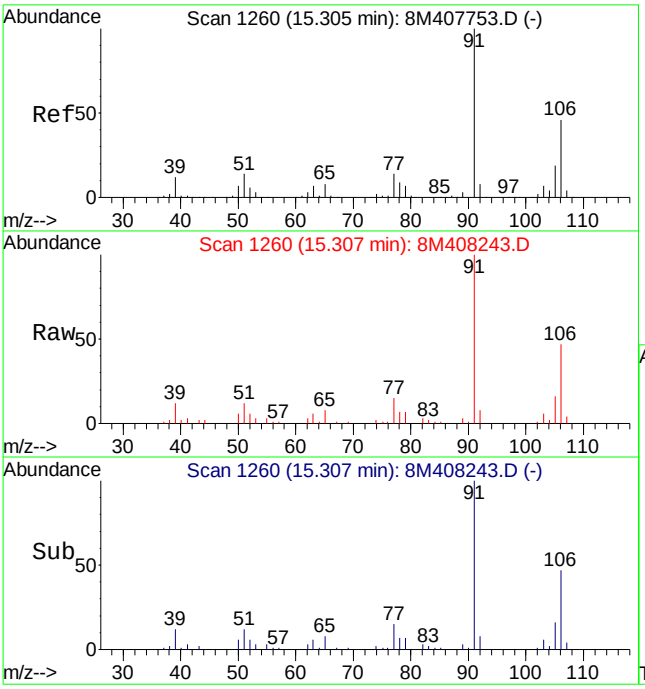


#73
m-,p-Xylene
Concen: 4.09 ug/L
RT: 14.75 min Scan# 1206
Delta R.T. 0.00 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion:106 Resp: 52059

Ion	Ratio	Lower	Upper
106	100		
91	208.4	125.1	291.9

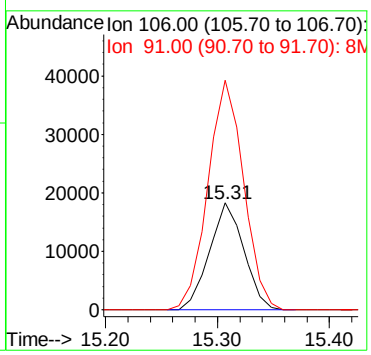


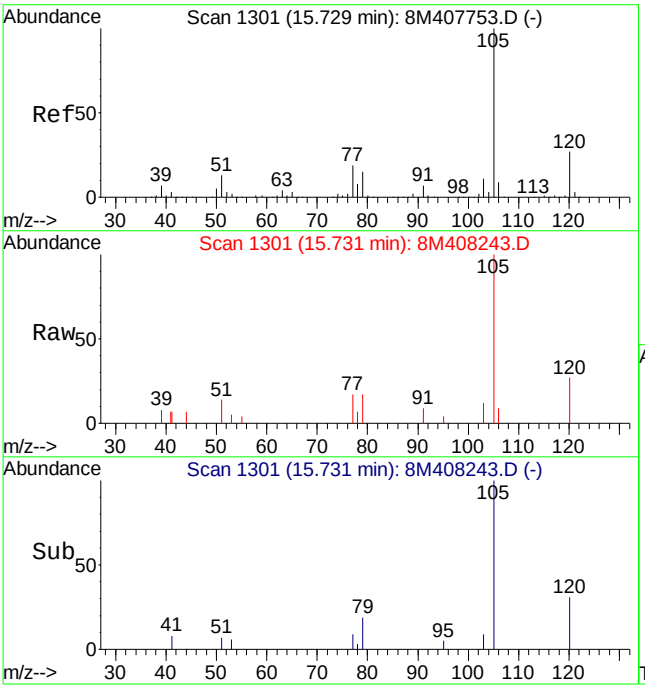


#74
o-Xylene
Concen: 3.05 ug/L
RT: 15.31 min Scan# 1260
Delta R.T. -0.01 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion:106 Resp: 39218

Ion	Ratio	Lower	Upper
106	100		
91	222.0	134.3	313.5

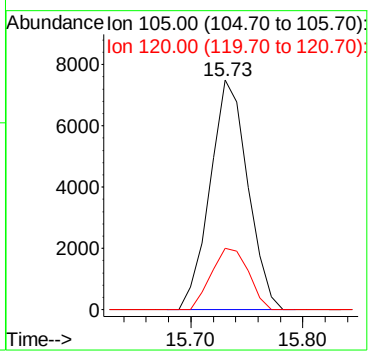


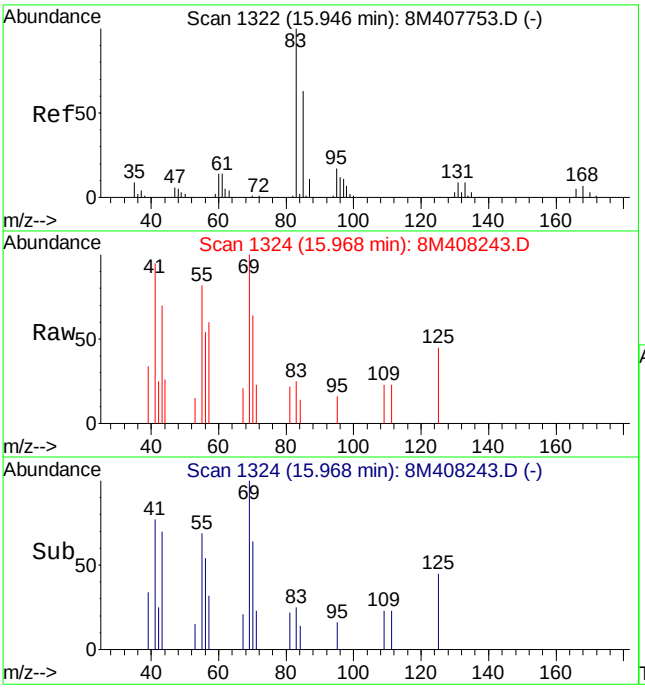


#77
Isopropylbenzene
Concen: 0.57 ug/L
RT: 15.73 min Scan# 1301
Delta R.T. -0.01 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion:105 Resp: 17561

Ion	Ratio	Lower	Upper
105	100		
120	26.4	16.0	37.2

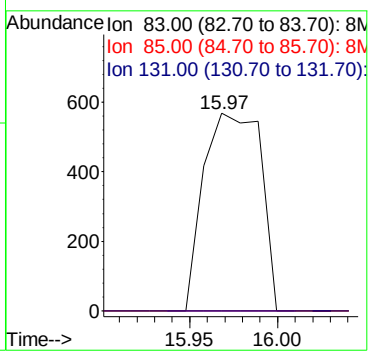


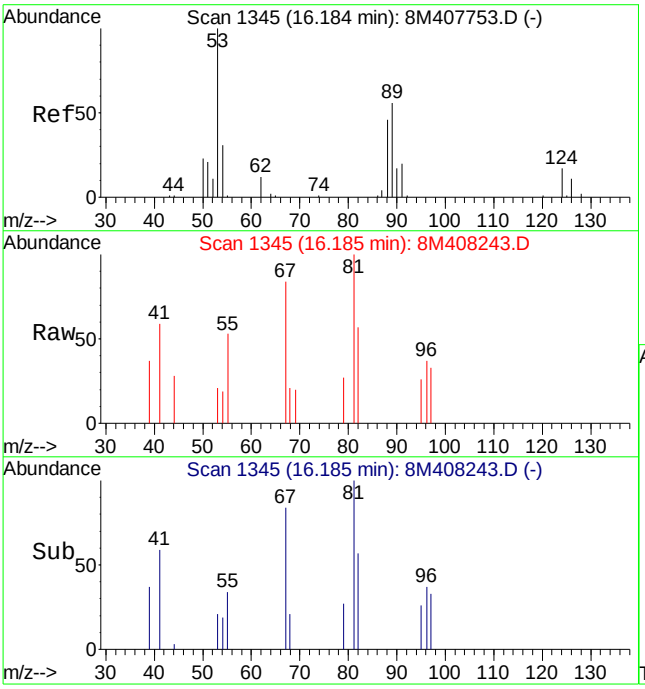


#79
1,1,2,2-Tetrachloroethane
Concen: 0.24 ug/L
RT: 15.97 min Scan# 1324
Delta R.T. 0.03 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion: 83 Resp: 1284

Ion	Ratio	Lower	Upper
83	100		
85	0.0	38.3	89.3#
131	0.0	5.8	13.4#

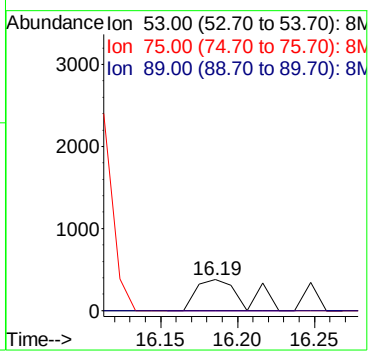


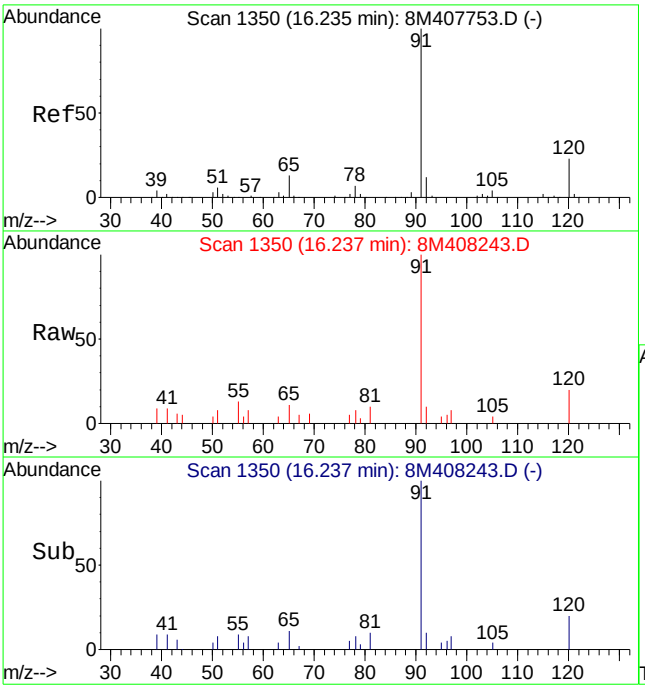


#82
trans-1,4-Dichloro-2-Butene
Concen: 0.43 ug/L
RT: 16.19 min Scan# 1345
Delta R.T. -0.01 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion: 53 Resp: 836

Ion	Ratio	Lower	Upper
53	100		
75	0.0	58.5	136.5#
89	0.0	33.5	78.1#

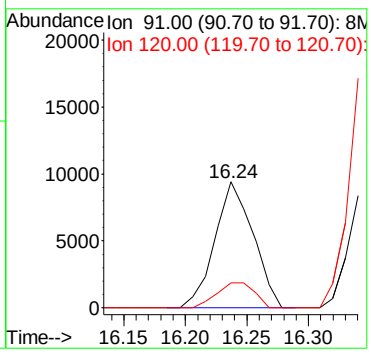


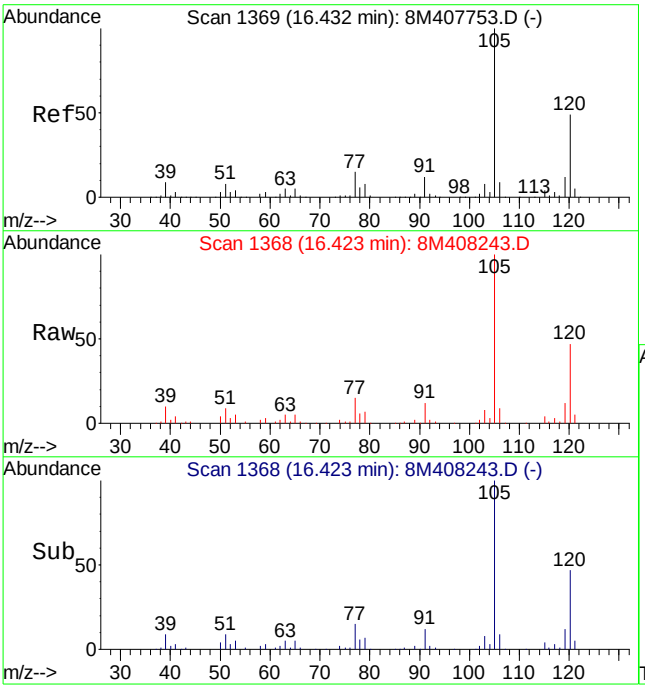


#83
n-Propylbenzene
Concen: 0.49 ug/L
RT: 16.24 min Scan# 1350
Delta R.T. -0.01 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion: 91 Resp: 20331

Ion	Ratio	Lower	Upper
91	100		
120	19.6	13.1	30.5

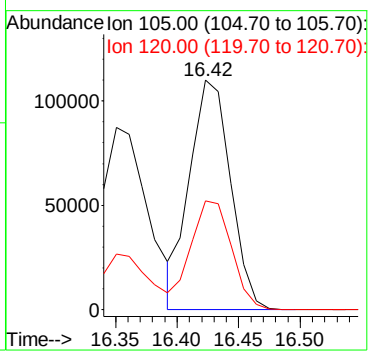


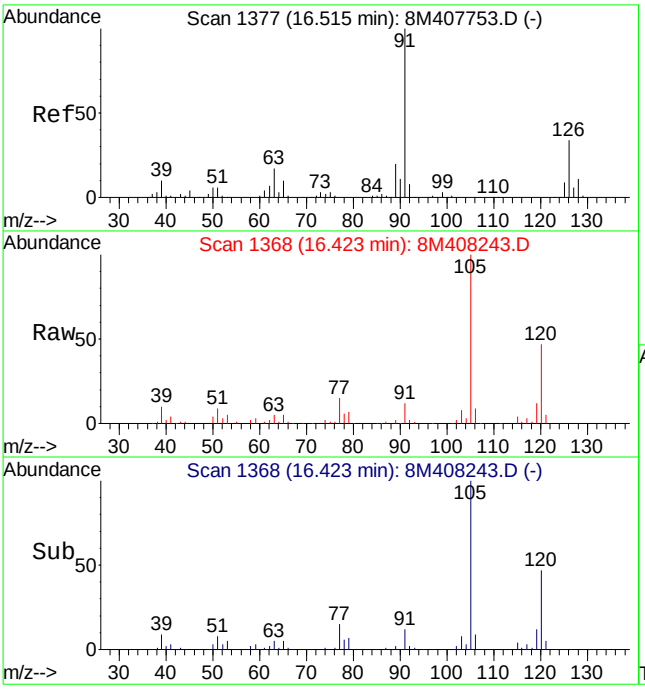


#85
1,3,5-Trimethylbenzene
Concen: 8.94 ug/L
RT: 16.42 min Scan# 1368
Delta R.T. -0.01 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion:105 Resp: 254364

Ion	Ratio	Lower	Upper
105	100		
120	47.5	28.8	67.2

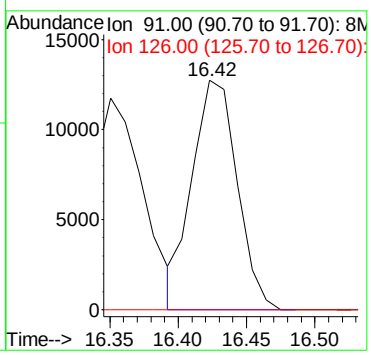


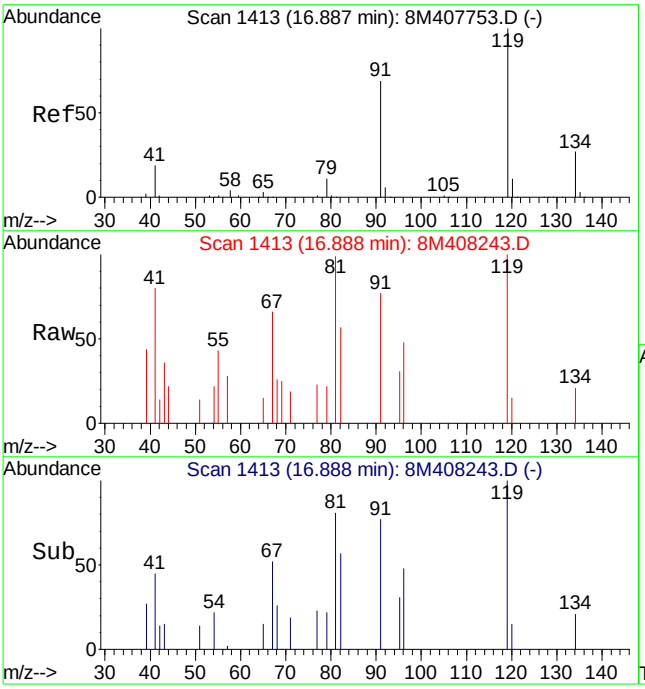


#86
2-Chlorotoluene
Concen: 1.07 ug/L
RT: 16.42 min Scan# 1368
Delta R.T. -0.09 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion: 91 Resp: 29240

Ion	Ratio	Lower	Upper
91	100		
126	0.0	19.4	45.4#

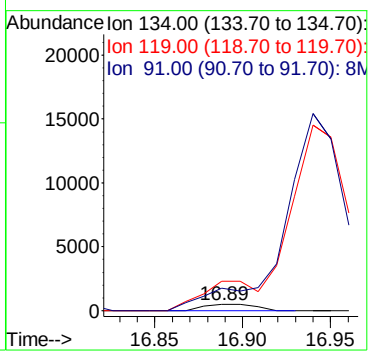


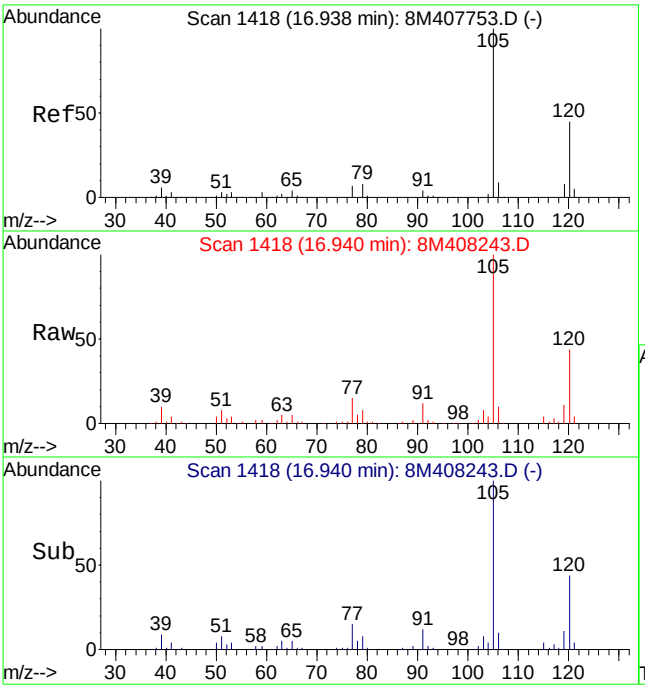


#89
tert-Butylbenzene
Concen: 0.16 ug/L
RT: 16.89 min Scan# 1413
Delta R.T. -0.01 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion:134 Resp: 1008

Ion	Ratio	Lower	Upper
134	100		
119	3658.1	293.9	685.7#
91	3632.2	214.9	501.3#

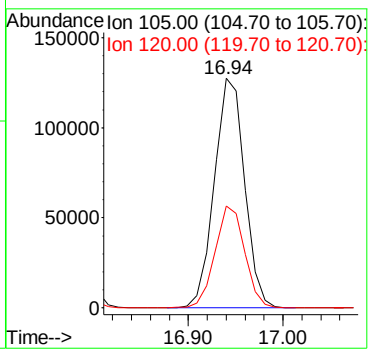


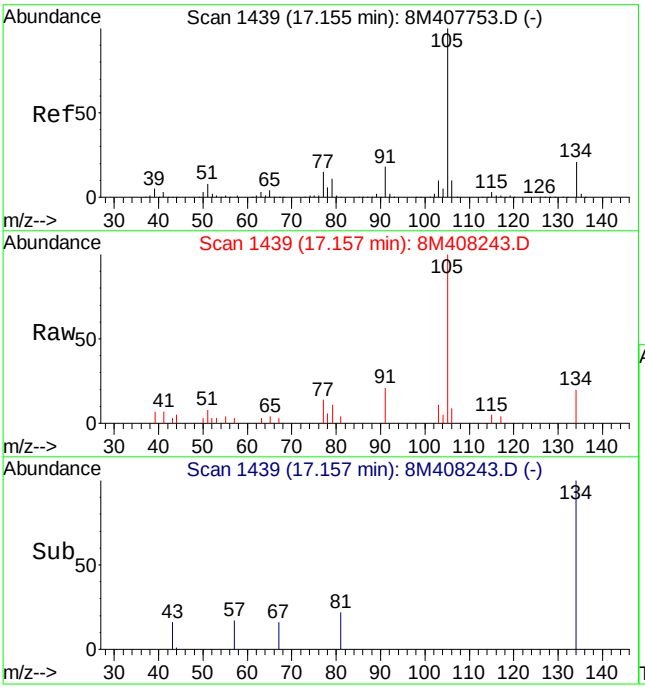


#90
1,2,4-Trimethylbenzene
Concen: 9.88 ug/L
RT: 16.94 min Scan# 1418
Delta R.T. -0.01 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion:105 Resp: 284124

Ion	Ratio	Lower	Upper
105	100		
120	43.7	32.3	75.5

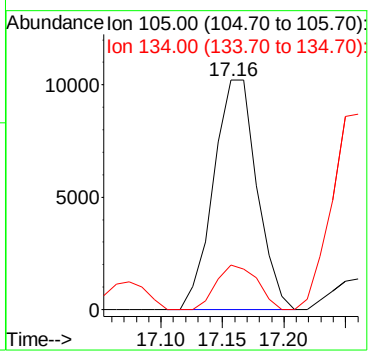


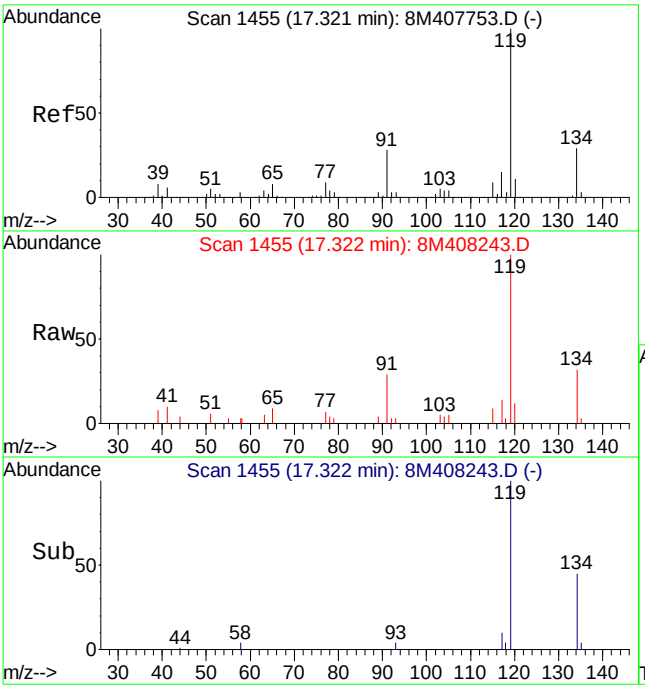


#91
sec-Butylbenzene
Concen: 0.71 ug/L
RT: 17.16 min Scan# 1439
Delta R.T. -0.01 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion:105 Resp: 25080

Ion	Ratio	Lower	Upper
105	100		
134	18.5	11.8	27.4

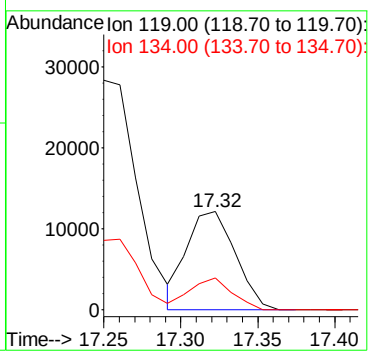


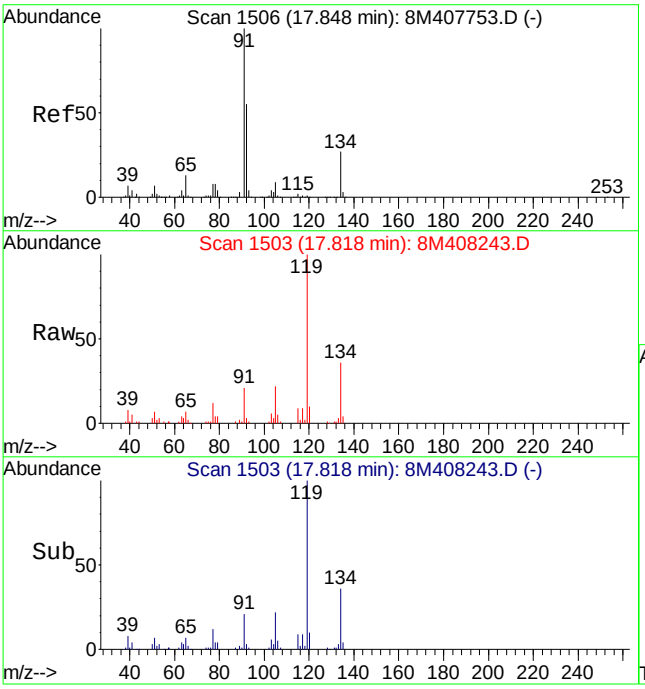


#92
p-Isopropyltoluene
Concen: 0.94 ug/L
RT: 17.32 min Scan# 1455
Delta R.T. 0.00 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion:119 Resp: 26545

Ion	Ratio	Lower	Upper
119	100		
134	28.2	15.8	36.8

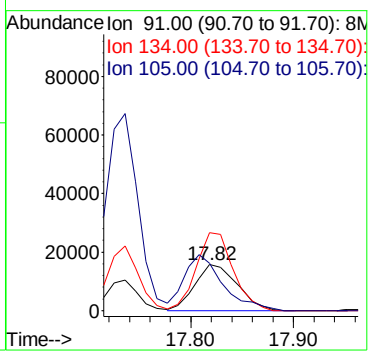


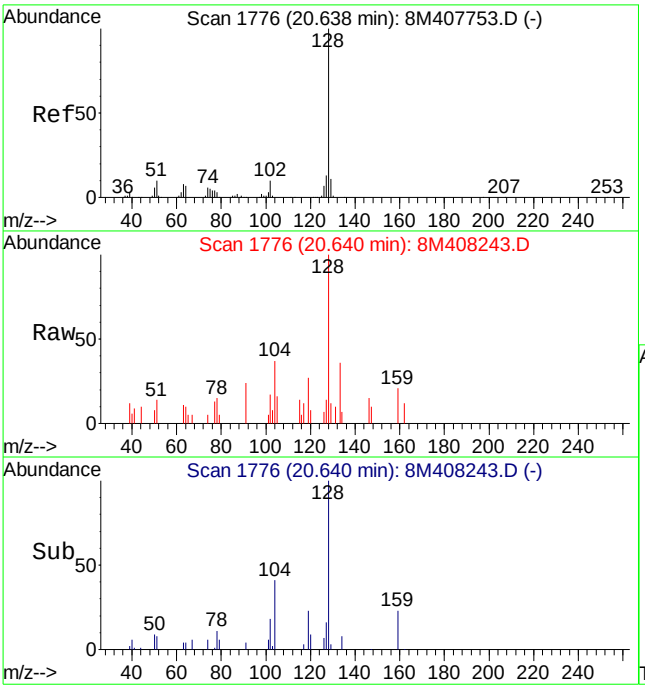


#95
n-Butylbenzene
Concen: 1.72 ug/L
RT: 17.82 min Scan# 1503
Delta R.T. -0.03 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion: 91 Resp: 45261

Ion	Ratio	Lower	Upper
91	100		
134	147.1	14.4	33.6#
105	110.7	5.0	11.8#

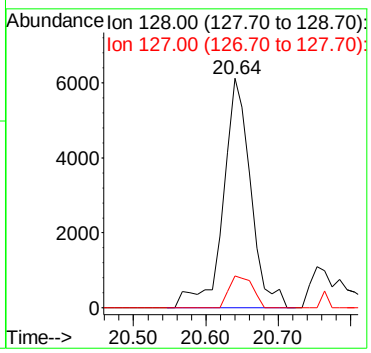




#100
Naphthalene
Concen: 1.12 ug/L
RT: 20.64 min Scan# 1776
Delta R.T. -0.01 min
Lab File: 8M408243.D
Acq: 23 Oct 2015 18:34

Tgt Ion:128 Resp: 16286

Ion	Ratio	Lower	Upper
128	100		
127	12.0	8.0	18.6



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\102315\8M408231.D Vial: 6
Acq On : 23 Oct 2015 12:39 Operator: TMB
Sample : L15101278-11 A MS 826-SPE Inst : HPMS8
Misc : 1,1 STD73015 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:01:00 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.72	96	720855	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.58	117	560885	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	327529	25.00	ug/L		0.00
System Monitoring Compounds							
37) Dibromofluoromethane	9.67	111	179704	26.1934	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 104.76%				
43) 1,2-Dichloroethane-d4	10.31	65	183165	26.1852	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 104.76%				
58) Toluene-d8	12.69	98	646937	24.8593	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.44%				
80) p-Bromofluorobenzene	16.08	95	273215	23.9075	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 95.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.17	85	193134	17.6231	ug/L		100
3) Chloromethane	3.63	50	322258	19.2710	ug/L		99
4) Vinyl Chloride	3.84	62	241782	18.2967	ug/L		98
5) 1,3-Butadiene	3.89	54	51832	2.7186	ug/L		97
6) Bromomethane	4.74	94	95042	21.8815	ug/L		99
7) Chloroethane	4.90	64	118412	21.9643	ug/L		98
8) Trichlorofluoromethane	5.38	101	266646	20.8775	ug/L		97
10) Isoprene	5.95	67	223711	23.8583	ug/L		96
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	152941	22.2769	ug/L		96
13) Acetone	6.25	43	30722	28.7139	ug/L		99
14) 1,1-Dichloroethene	6.48	61	239320	20.4778	ug/L		99
15) Tert-Butyl Alcohol	6.60	59	3815	12.0673	ug/L	#	58
16) Dimethyl Sulfide	6.74	62	173415	25.8541	ug/L		99
17) Iodomethane	7.00	142	89650	21.1795	ug/L		91
18) Methyl acetate	7.01	43	94142	23.2680	ug/L		98
19) Methylene Chloride	7.26	84	153099	21.0930	ug/L		98
20) Carbon Disulfide	7.30	76	441107	18.6121	ug/L		98
21) Acrylonitrile	7.44	53	39376	24.5152	ug/L		100
22) Methyl Tert Butyl Ether	7.47	73	341050	24.7872	ug/L		98
23) trans-1,2-Dichloroethene	7.71	61	237742	21.4215	ug/L		98
24) n-Hexane	7.79	57	221198	20.1757	ug/L		95
26) Vinyl Acetate	8.31	43	181640	24.9809	ug/L		100
27) 1,1-Dichloroethane	8.33	63	302689	21.4773	ug/L		99
29) 2-Butanone	8.89	43	44400	24.0865	ug/L		98
31) 2,2-Dichloropropane	9.11	77	259872	22.0636	ug/L		99
32) cis-1,2-Dichloroethene	9.18	96	170226	21.4970	ug/L		98
33) Chloroform	9.38	83	300315	22.4326	ug/L		99
34) 1-Bromopropane	9.52	122	36256	27.8823	ug/L		95
35) Bromochloromethane	9.61	130	91297	23.4207	ug/L		96
38) 1,1,1-Trichloroethane	9.91	97	262331	21.8300	ug/L		98
39) Cyclohexane	9.95	56	301829	21.1069	ug/L		98
40) 1,1-Dichloropropene	10.11	75	211801	20.4707	ug/L		98
42) Carbon Tetrachloride	10.25	117	233946	21.7832	ug/L		99
45) 1,2-Dichloroethane	10.43	62	204158	22.2076	ug/L		97
46) Benzene	10.47	78	610586	21.5070	ug/L		100
47) Trichloroethene	11.22	130	158707	20.7657	ug/L		96
48) Methylcyclohexane	11.31	83	257321	21.7595	ug/L		98
49) 1,2-Dichloropropane	11.43	63	160898	21.0373	ug/L		95
50) Bromodichloromethane	11.73	83	211000	21.3738	ug/L		99
51) 1,4-Dioxane	11.74	88	571	16.2164	ug/L	#	55

(#) = qualifier out of range (m) = manual integration
8M408231.D 8260WT.M Fri Oct 23 13:01:01 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\102315\8M408231.D Vial: 6
Acq On : 23 Oct 2015 12:39 Operator: TMB
Sample : L15101278-11 A MS 826-SPE Inst : HPMS8
Misc : 1,1 STD73015 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:01:00 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

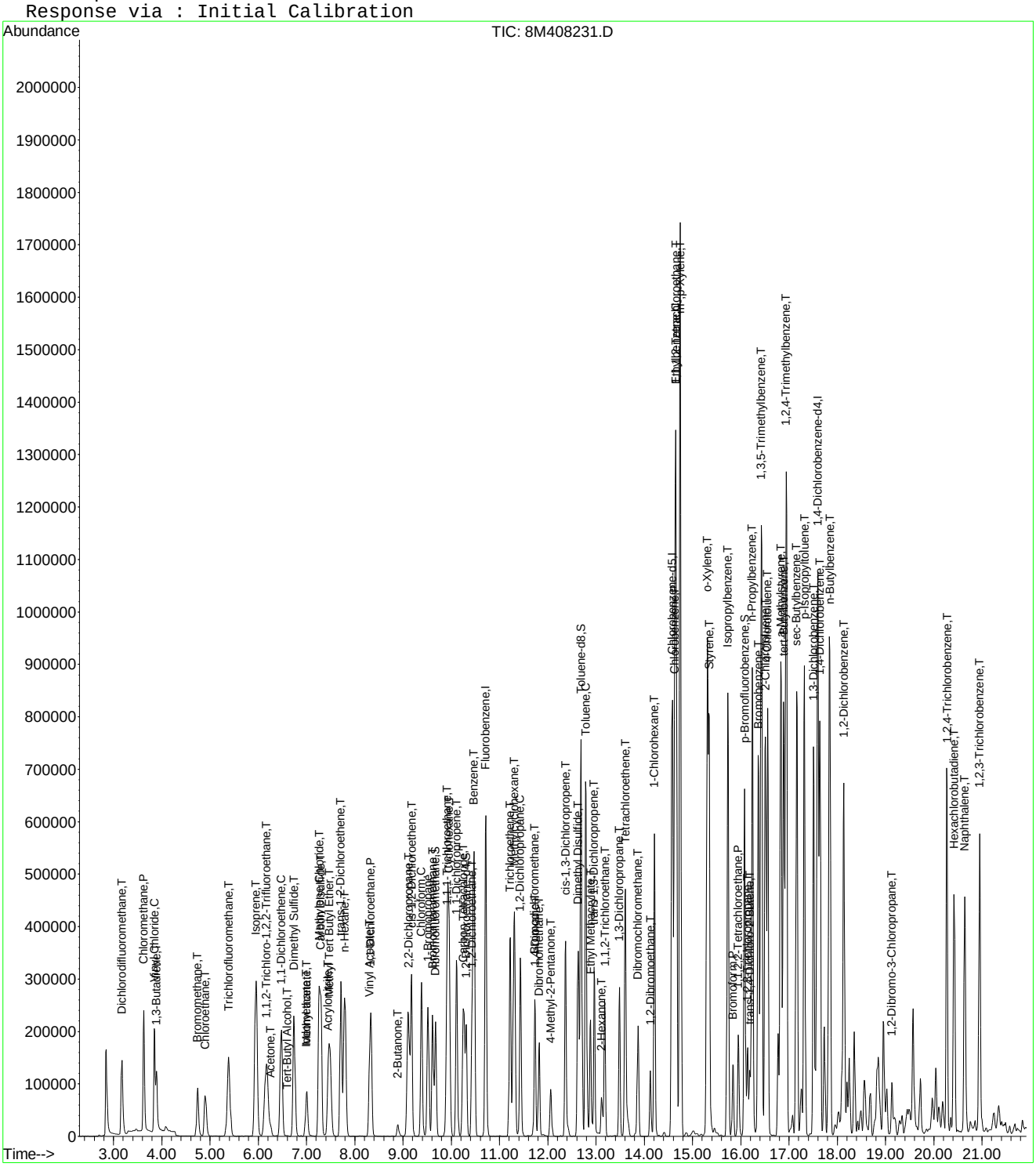
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
52)	Dibromomethane	11.82	93	80378	22.0703 ug/L		96
54)	4-Methyl-2-Pentanone	12.06	58	34558	21.3695 ug/L		97
55)	cis-1,3-Dichloropropene	12.37	75	246090	22.4560 ug/L		99
56)	Dimethyl Disulfide	12.63	79	127002	21.4923 ug/L		94
59)	Toluene	12.78	91	647479	20.3152 ug/L		99
60)	Ethyl Methacrylate	12.89	69	146935	23.1240 ug/L		96
62)	trans-1,3-Dichloropropene	12.96	75	195896	20.0347 ug/L		99
63)	1,1,2-Trichloroethane	13.19	97	102544	20.2709 ug/L		98
64)	2-Hexanone	13.11	58	33229	20.8929 ug/L	#	88
65)	1,3-Dichloropropane	13.49	76	186341	20.6126 ug/L		95
66)	Tetrachloroethene	13.61	164	140041	20.6689 ug/L		97
67)	Dibromochloromethane	13.87	129	134211	20.5202 ug/L		100
68)	1,2-Dibromoethane	14.13	107	102753	20.3453 ug/L		99
69)	1-Chlorohexane	14.21	91	228025	19.9942 ug/L		98
70)	Chlorobenzene	14.62	112	446230	20.8949 ug/L		100
71)	1,1,1,2-Tetrachloroethane	14.65	131	155058	19.6366 ug/L		98
72)	Ethylbenzene	14.65	106	238881	19.2016 ug/L		96
73)	m-,p-Xylene	14.75	106	641804	44.9852 ug/L		99
74)	o-Xylene	15.31	106	333551	23.1192 ug/L		98
75)	Styrene	15.35	104	473282	20.7048 ug/L		97
76)	Bromoform	15.84	173	87605	22.2809 ug/L		98
77)	Isopropylbenzene	15.73	105	772681	22.3261 ug/L		99
79)	1,1,2,2-Tetrachloroethane	15.95	83	119158	19.7192 ug/L		99
81)	1,2,3-Trichloropropane	16.14	110	32896	19.5910 ug/L		51
82)	trans-1,4-Dichloro-2-Buten	16.18	53	40376	18.1828 ug/L	#	67
83)	n-Propylbenzene	16.24	91	956463	20.1698 ug/L		100
84)	Bromobenzene	16.37	156	187823	19.5119 ug/L		93
85)	1,3,5-Trimethylbenzene	16.42	105	892133	27.3635 ug/L		100
86)	2-Chlorotoluene	16.51	91	620517	19.7560 ug/L		100
87)	4-Chlorotoluene	16.56	91	547699	20.1631 ug/L		99
88)	a-Methylstyrene	16.84	118	367677	20.6864 ug/L		96
89)	tert-Butylbenzene	16.89	134	142271	19.8360 ug/L		98
90)	1,2,4-Trimethylbenzene	16.94	105	952197	28.9020 ug/L		95
91)	sec-Butylbenzene	17.16	105	847739	20.9314 ug/L		98
92)	p-Isopropyltoluene	17.32	119	680438	21.0130 ug/L		97
93)	1,3-Dichlorobenzene	17.51	146	384382	20.0057 ug/L		97
94)	1,4-Dichlorobenzene	17.64	146	373356	19.5135 ug/L		97
95)	n-Butylbenzene	17.85	91	701364	23.2345 ug/L	#	80
96)	1,2-Dichlorobenzene	18.14	146	351036	20.8799 ug/L		97
97)	1,2-Dibromo-3-Chloropropan	19.13	75	21373	20.1833 ug/L		95
98)	1,2,4-Trichlorobenzene	20.28	180	257411	22.2859 ug/L		99
99)	Hexachlorobutadiene	20.42	225	116137	21.0218 ug/L		99
100)	Naphthalene	20.64	128	418228	25.0452 ug/L		98
101)	1,2,3-Trichlorobenzene	20.95	180	222416	22.5811 ug/L		96

(#) = qualifier out of range (m) = manual integration
8M408231.D 8260WT.M Fri Oct 23 13:01:01 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\102315\8M408231.D Vial: 6
Acq On : 23 Oct 2015 12:39 Operator: TMB
Sample : L15101278-11 A MS 826-SPE Inst : HPMS8
Misc : 1,1 STD73015 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:01 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\102315\8M408232.D Vial: 7
Acq On : 23 Oct 2015 13:08 Operator: TMB
Sample : L15101278-12 A MSD 826-SPE Inst : HPMS8
Misc : 1,1 STD73015 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:30:16 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	759510	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.57	117	585173	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	336540	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.68	111	185936	25.7224	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 102.88%			
43) 1,2-Dichloroethane-d4	10.31	65	188535	25.5812	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 102.32%			
58) Toluene-d8	12.69	98	674613	24.8469	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.40%			
80) p-Bromofluorobenzene	16.08	95	286379	24.3885	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	197567	17.1101	ug/L	98
3) Chloromethane	3.63	50	323730	18.3738	ug/L	100
4) Vinyl Chloride	3.85	62	242023	17.3828	ug/L	100
5) 1,3-Butadiene	3.89	54	55569	2.8230	ug/L	92
6) Bromomethane	4.75	94	103526	22.5866	ug/L	100
7) Chloroethane	4.90	64	124680	21.9499	ug/L	99
8) Trichlorofluoromethane	5.39	101	275189	20.4498	ug/L	97
10) Isoprene	5.95	67	227788	23.0567	ug/L	95
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	159666	22.0728	ug/L	98
13) Acetone	6.25	43	32007	28.3924	ug/L	100
14) 1,1-Dichloroethene	6.48	61	252836	20.5333	ug/L	99
15) Tert-Butyl Alcohol	6.60	59	1901	5.7071	ug/L #	74
16) Dimethyl Sulfide	6.74	62	181745	25.7170	ug/L	98
17) Iodomethane	7.00	142	90006	20.2669	ug/L	93
18) Methyl acetate	7.01	43	93721	21.9851	ug/L	98
19) Methylene Chloride	7.26	84	159868	20.9046	ug/L	96
20) Carbon Disulfide	7.30	76	448808	17.9733	ug/L	99
21) Acrylonitrile	7.44	53	40415	23.8814	ug/L	99
22) Methyl Tert Butyl Ether	7.47	73	347131	23.9451	ug/L	99
23) trans-1,2-Dichloroethene	7.71	61	244586	20.9165	ug/L	97
24) n-Hexane	7.79	57	225774	19.5450	ug/L	97
26) Vinyl Acetate	8.30	43	189603	24.7489	ug/L	99
27) 1,1-Dichloroethane	8.33	63	318101	21.4221	ug/L	99
29) 2-Butanone	8.89	43	42296	21.7774	ug/L	99
31) 2,2-Dichloropropane	9.11	77	271657	21.8904	ug/L	98
32) cis-1,2-Dichloroethene	9.18	96	175273	21.0078	ug/L	100
33) Chloroform	9.39	83	313522	22.2272	ug/L	99
34) 1-Bromopropane	9.52	122	36750	26.8238	ug/L	100
35) Bromochloromethane	9.61	130	95091	23.1524	ug/L	96
38) 1,1,1-Trichloroethane	9.91	97	277813	21.9418	ug/L	98
39) Cyclohexane	9.94	56	309344	20.5314	ug/L	98
40) 1,1-Dichloropropene	10.11	75	225216	20.6594	ug/L	98
42) Carbon Tetrachloride	10.25	117	241006	21.2984	ug/L	99
45) 1,2-Dichloroethane	10.43	62	212309	21.9189	ug/L	97
46) Benzene	10.47	78	642142	21.4674	ug/L	99
47) Trichloroethene	11.22	130	166109	20.6280	ug/L	95
48) Methylcyclohexane	11.30	83	263973	21.1860	ug/L	98
49) 1,2-Dichloropropane	11.43	63	170994	21.2195	ug/L	97
50) Bromodichloromethane	11.73	83	220513	21.2006	ug/L	99
52) Dibromomethane	11.81	93	82404	21.4750	ug/L	93

(#) = qualifier out of range (m) = manual integration
8M408232.D 8260WT.M Fri Oct 23 13:30:16 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\102315\8M408232.D Vial: 7
Acq On : 23 Oct 2015 13:08 Operator: TMB
Sample : L15101278-12 A MSD 826-SPE Inst : HPMS8
Misc : 1,1 STD73015 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:30:16 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

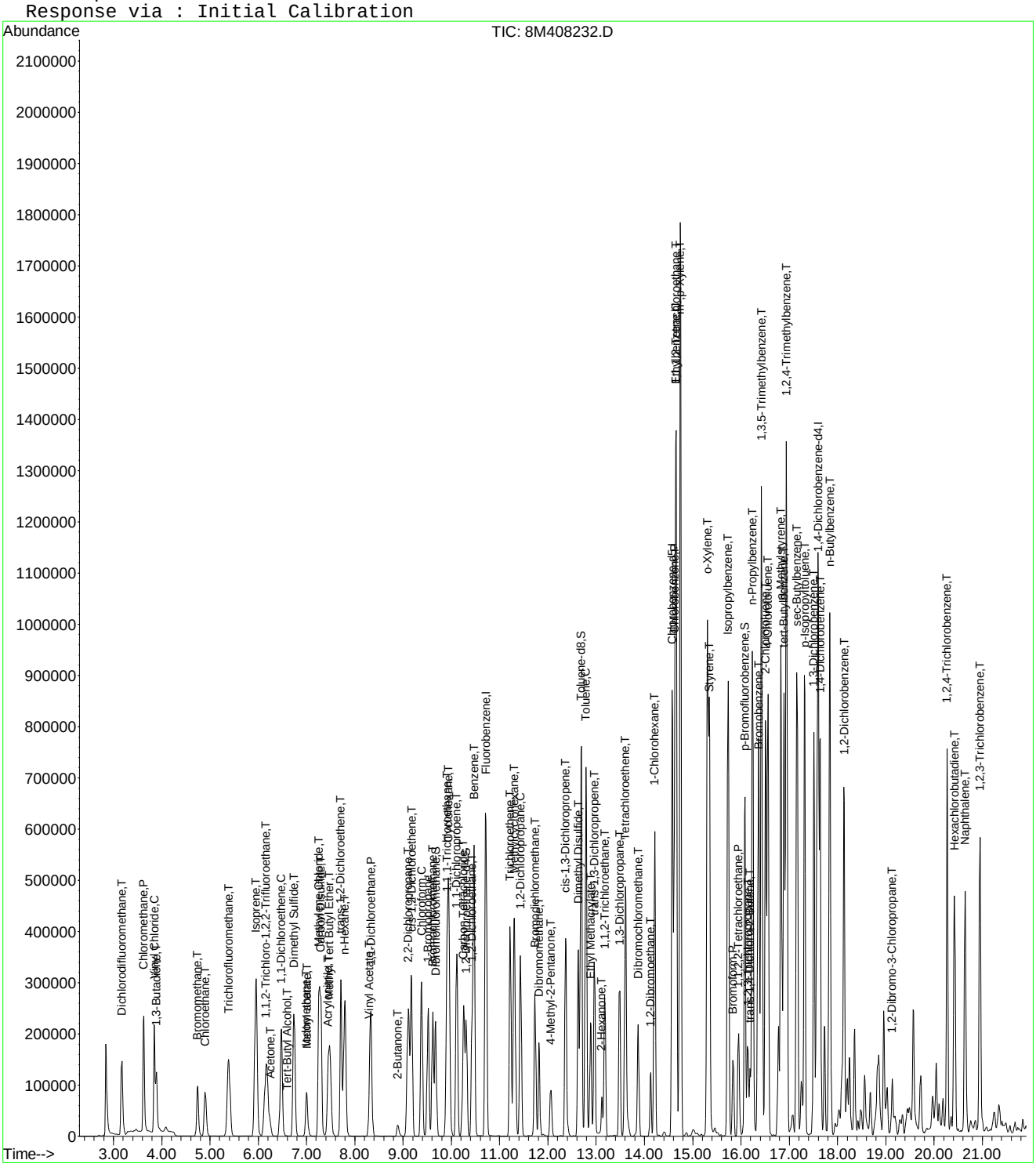
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	4-Methyl-2-Pentanone	12.06	58	35868	21.0508	ug/L		99
55)	cis-1,3-Dichloropropene	12.36	75	256923	22.2513	ug/L		99
56)	Dimethyl Disulfide	12.63	79	130875	21.0205	ug/L		96
59)	Toluene	12.79	91	676754	20.3524	ug/L		99
60)	Ethyl Methacrylate	12.89	69	150743	22.7386	ug/L		94
62)	trans-1,3-Dichloropropene	12.96	75	203637	19.9620	ug/L		100
63)	1,1,2-Trichloroethane	13.18	97	105670	20.0218	ug/L		97
64)	2-Hexanone	13.12	58	33109	19.9534	ug/L	#	89
65)	1,3-Dichloropropane	13.49	76	194852	20.6594	ug/L		94
66)	Tetrachloroethene	13.60	164	145089	20.5251	ug/L		95
67)	Dibromochloromethane	13.87	129	139897	20.5018	ug/L		98
68)	1,2-Dibromoethane	14.13	107	107563	20.4137	ug/L		97
69)	1-Chlorohexane	14.21	91	236878	19.9084	ug/L		99
70)	Chlorobenzene	14.63	112	465042	20.8720	ug/L		99
71)	1,1,1,2-Tetrachloroethane	14.66	131	162826	19.7644	ug/L		98
72)	Ethylbenzene	14.66	106	250919	19.3321	ug/L		96
73)	m-,p-Xylene	14.74	106	672052	45.1502	ug/L		99
74)	o-Xylene	15.31	106	347725	23.1013	ug/L		98
75)	Styrene	15.35	104	494517	20.7358	ug/L		98
76)	Bromoform	15.84	173	90426	22.0438	ug/L		99
77)	Isopropylbenzene	15.73	105	804133	22.2705	ug/L		99
79)	1,1,2,2-Tetrachloroethane	15.95	83	124798	20.0996	ug/L		99
81)	1,2,3-Trichloropropane	16.15	110	34708	20.1167	ug/L	#	43
82)	trans-1,4-Dichloro-2-Buten	16.19	53	40343	17.6815	ug/L	#	69
83)	n-Propylbenzene	16.24	91	990312	20.3244	ug/L		100
84)	Bromobenzene	16.37	156	196003	19.8164	ug/L		93
85)	1,3,5-Trimethylbenzene	16.42	105	956969	28.5662	ug/L		99
86)	2-Chlorotoluene	16.51	91	678890	21.0358	ug/L		99
87)	4-Chlorotoluene	16.56	91	545593	19.5477	ug/L		100
88)	a-Methylstyrene	16.83	118	375144	20.5414	ug/L		95
89)	tert-Butylbenzene	16.89	134	148095	20.0951	ug/L		98
90)	1,2,4-Trimethylbenzene	16.94	105	993026	29.3342	ug/L		95
91)	sec-Butylbenzene	17.16	105	876441	21.0607	ug/L		98
92)	p-Isopropyltoluene	17.32	119	703905	21.1556	ug/L		97
93)	1,3-Dichlorobenzene	17.51	146	399094	20.2152	ug/L		98
94)	1,4-Dichlorobenzene	17.64	146	387071	19.6887	ug/L		97
95)	n-Butylbenzene	17.84	91	729493	23.5193	ug/L	#	82
96)	1,2-Dichlorobenzene	18.14	146	360322	20.8584	ug/L		98
97)	1,2-Dibromo-3-Chloropropan	19.13	75	22747	20.9057	ug/L		98
98)	1,2,4-Trichlorobenzene	20.27	180	264902	22.3204	ug/L		99
99)	Hexachlorobutadiene	20.42	225	120086	21.1546	ug/L		99
100)	Naphthalene	20.64	128	432880	25.2286	ug/L		99
101)	1,2,3-Trichlorobenzene	20.95	180	228457	22.5734	ug/L		97

(#) = qualifier out of range (m) = manual integration
8M408232.D 8260WT.M Fri Oct 23 13:30:17 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\102315\8M408232.D Vial: 7
Acq On : 23 Oct 2015 13:08 Operator: TMB
Sample : L15101278-12 A MSD 826-SPE Inst : HPMS8
Misc : 1,1 STD73015 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:30 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\102315\8M408241.D Vial: 16
Acq On : 23 Oct 2015 17:35 Operator: TMB
Sample : L15101278-13 A ER 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 08:49:30 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

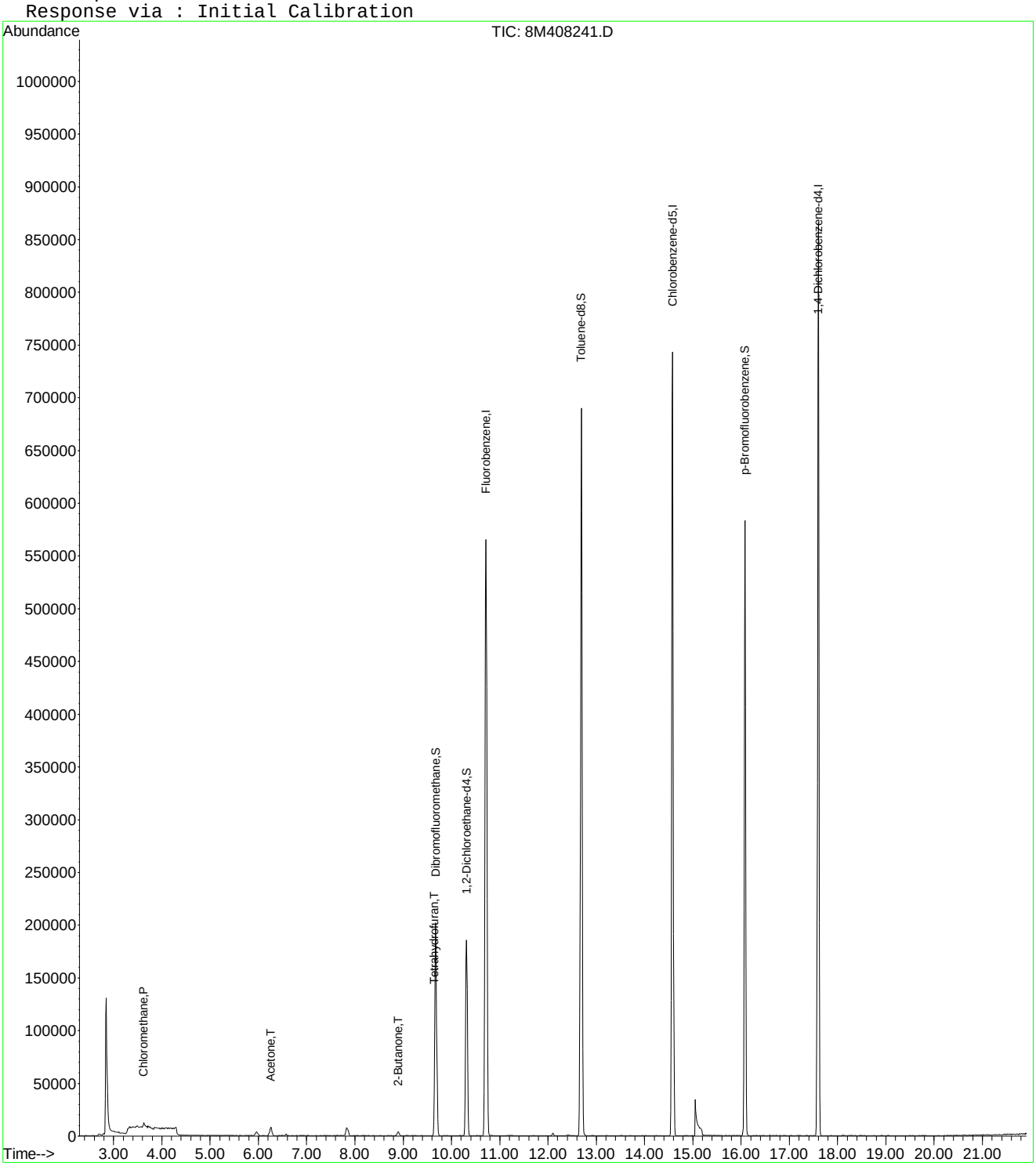
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	658458	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	507519	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	277695	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	162867	25.9888	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 103.96%			
43) 1,2-Dichloroethane-d4	10.31	65	164527	25.7496	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 103.00%			
58) Toluene-d8	12.69	98	585859	24.8795	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.52%			
80) p-Bromofluorobenzene	16.08	95	239403	24.7082	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.84%			
Target Compounds						Qvalue
3) Chloromethane	3.63	50	5685	0.3722	ug/L #	1
13) Acetone	6.26	43	18808	19.2444	ug/L	95
29) 2-Butanone	8.90	43	7622	4.5267	ug/L	92
36) Tetrahydrofuran	9.65	42	3272	2.9603	ug/L	92

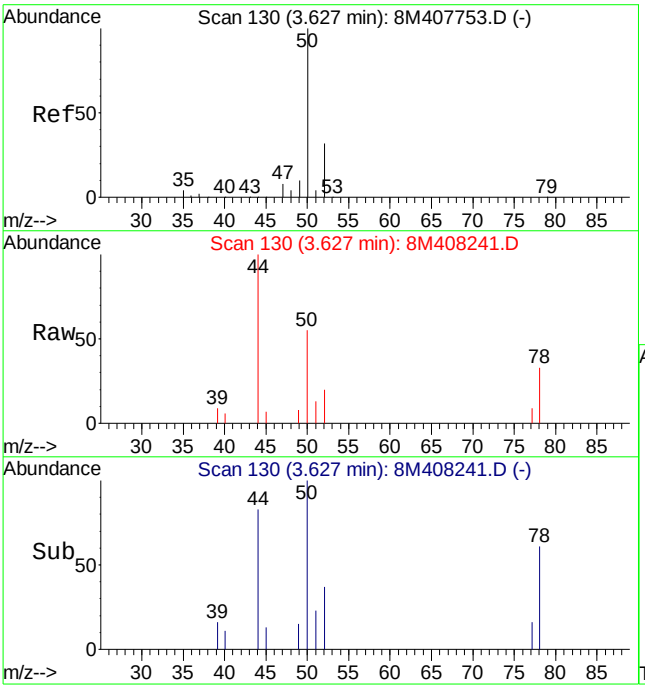
(#) = qualifier out of range (m) = manual integration
8M408241.D 8260WT.M Sat Oct 24 08:49:30 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\102315\8M408241.D Vial: 16
Acq On : 23 Oct 2015 17:35 Operator: TMB
Sample : L15101278-13 A ER 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:49 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration

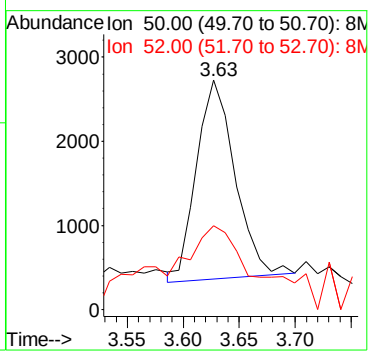


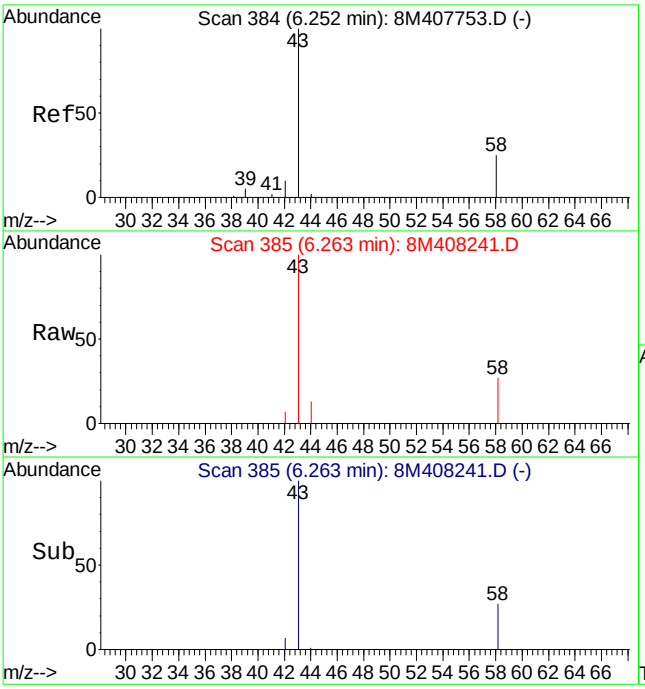


#3
Chloromethane
Concen: 0.37 ug/L
RT: 3.63 min Scan# 130
Delta R.T. 0.01 min
Lab File: 8M408241.D
Acq: 23 Oct 2015 17:35

Tgt Ion: 50 Resp: 5685

Ion	Ratio	Lower	Upper
50	100		
52	104.4	19.2	44.8#

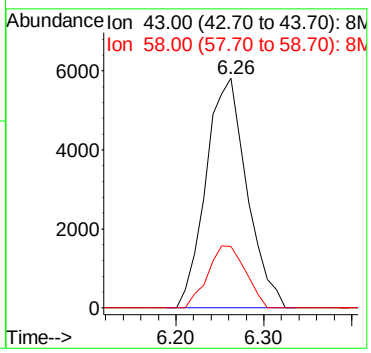


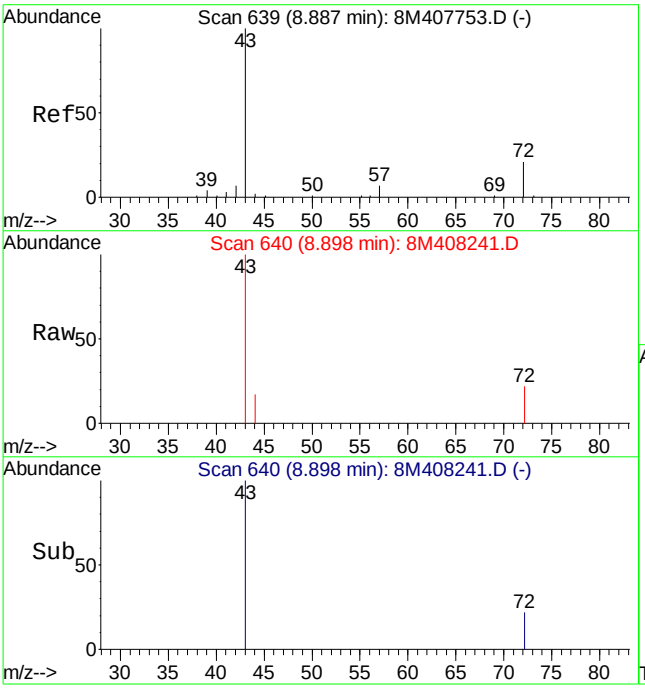


#13
Acetone
Concen: 19.24 ug/L
RT: 6.26 min Scan# 385
Delta R.T. 0.02 min
Lab File: 8M408241.D
Acq: 23 Oct 2015 17:35

Tgt Ion: 43 Resp: 18808

Ion	Ratio	Lower	Upper
43	100		
58	24.8	16.4	38.2

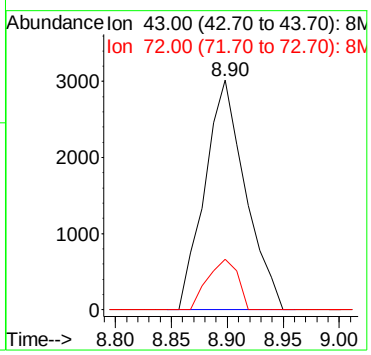


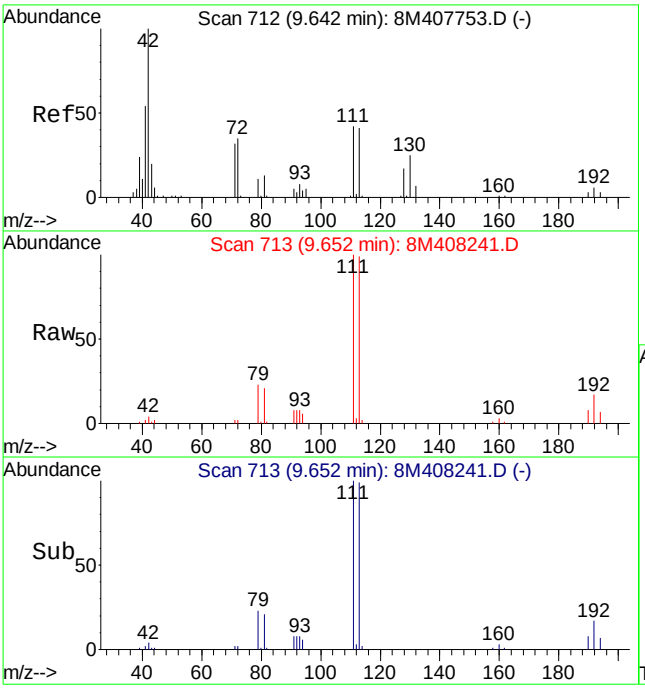


#29
2-Butanone
Concen: 4.53 ug/L
RT: 8.90 min Scan# 640
Delta R.T. 0.01 min
Lab File: 8M408241.D
Acq: 23 Oct 2015 17:35

Tgt Ion: 43 Resp: 7622

Ion	Ratio	Lower	Upper
43	100		
72	16.2	11.9	27.9

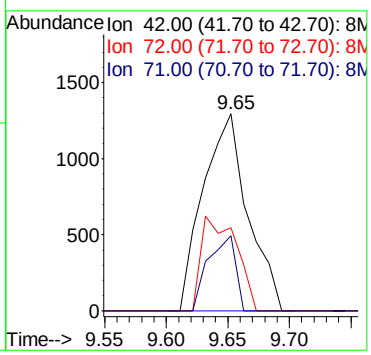




#36
Tetrahydrofuran
Concen: 2.96 ug/L
RT: 9.65 min Scan# 713
Delta R.T. 0.02 min
Lab File: 8M408241.D
Acq: 23 Oct 2015 17:35

Tgt Ion: 42 Resp: 3272

Ion	Ratio	Lower	Upper
42	100		
72	37.6	22.4	52.4
71	23.2	19.5	45.5



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\102315\8M408239.D Vial: 14
Acq On : 23 Oct 2015 16:35 Operator: TMB
Sample : L15101278-14 A TB 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 08:49:27 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

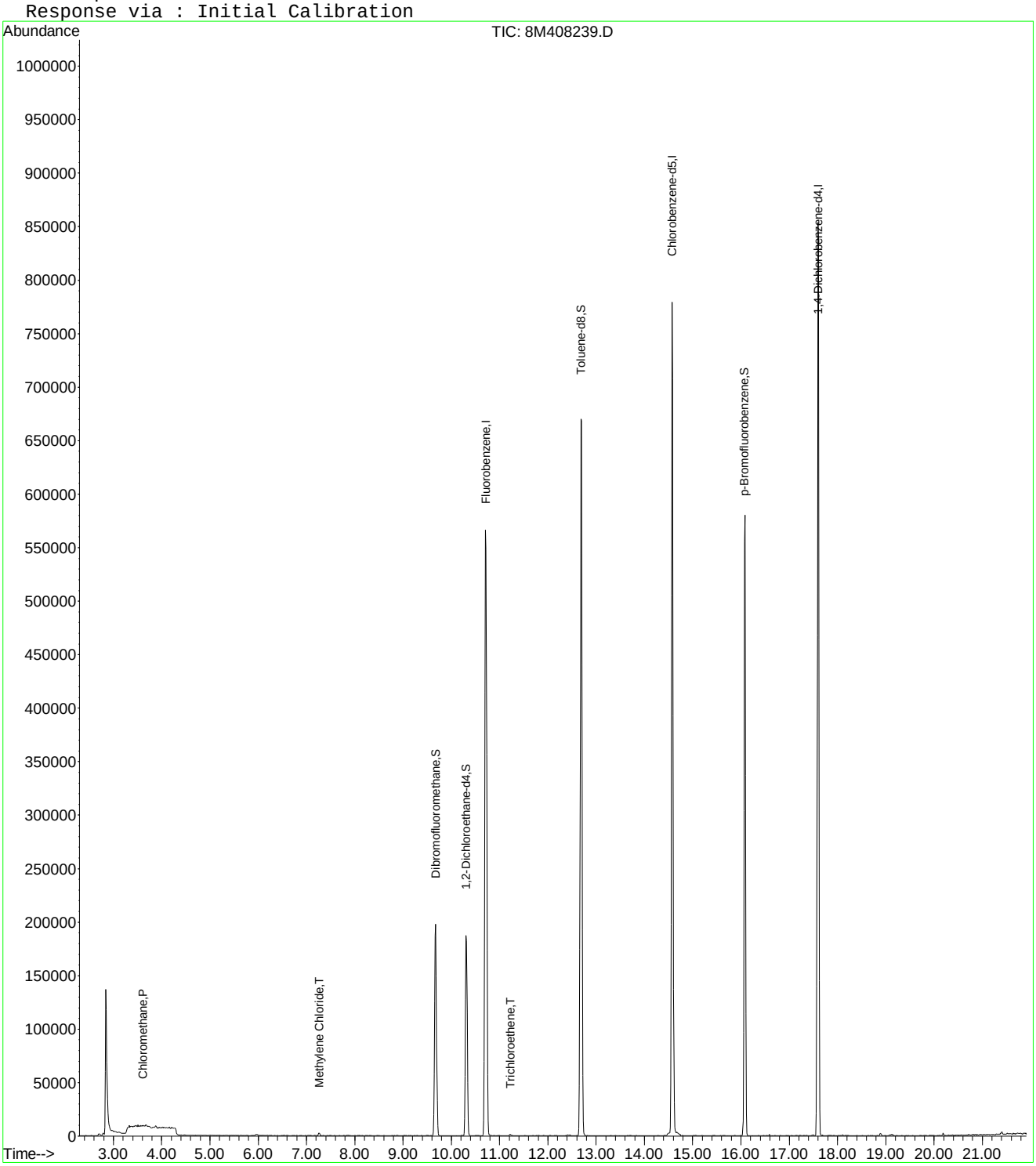
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	675010	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	520769	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	289433	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.68	111	167088	26.0086	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 104.04%			
43) 1,2-Dichloroethane-d4	10.31	65	168839	25.7765	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 103.12%			
58) Toluene-d8	12.69	98	596801	24.6994	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.80%			
80) p-Bromofluorobenzene	16.07	95	247869	24.5445	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.16%			
Target Compounds						Qvalue
3) Chloromethane	3.62	50	3197	0.2042	ug/L #	76
19) Methylene Chloride	7.27	84	1251	0.1841	ug/L	99
47) Trichloroethene	11.23	130	936	0.1308	ug/L #	62

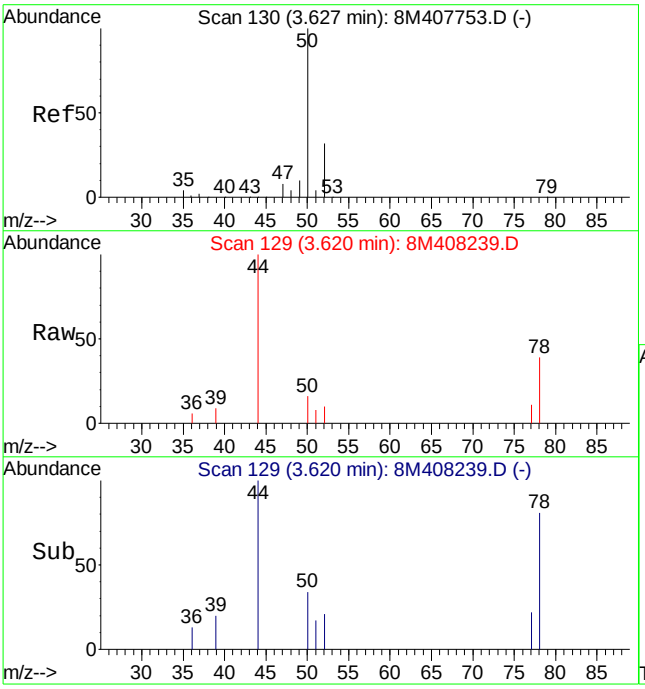
(#) = qualifier out of range (m) = manual integration
8M408239.D 8260WT.M Sat Oct 24 08:49:28 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\102315\8M408239.D Vial: 14
Acq On : 23 Oct 2015 16:35 Operator: TMB
Sample : L15101278-14 A TB 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:49 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration

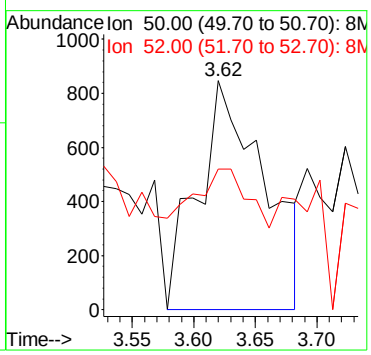


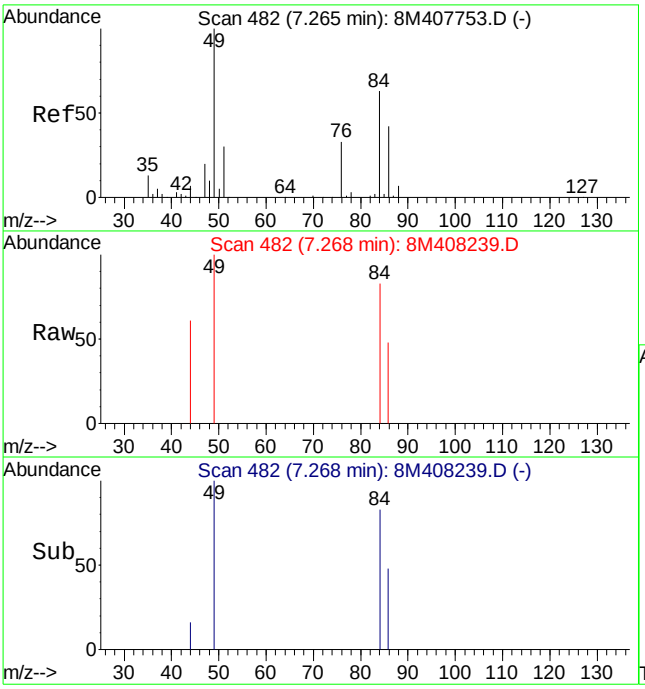


#3
Chloromethane
Concen: 0.20 ug/L
RT: 3.62 min Scan# 129
Delta R.T. 0.00 min
Lab File: 8M408239.D
Acq: 23 Oct 2015 16:35

Tgt Ion: 50 Resp: 3197

Ion	Ratio	Lower	Upper
50	100		
52	18.9	19.2	44.8#

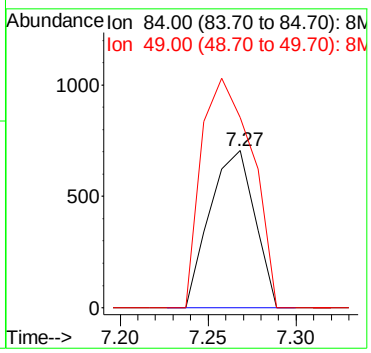


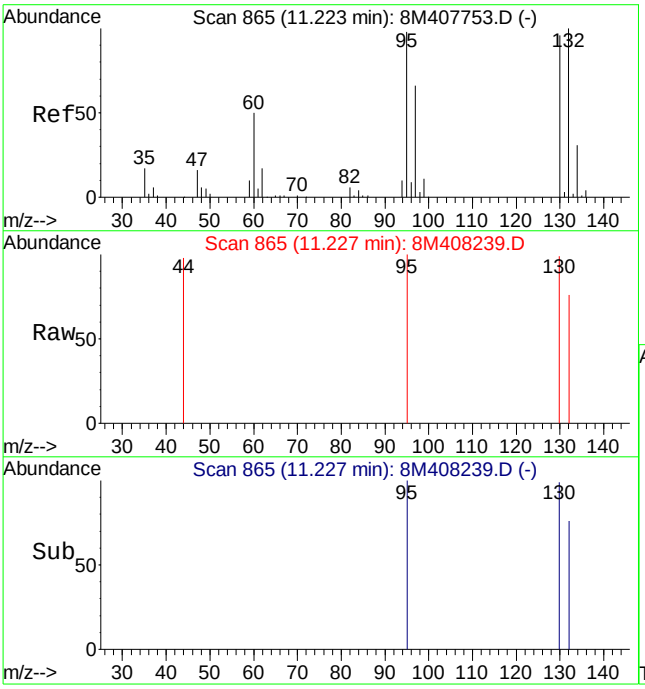


#19
Methylene Chloride
Concen: 0.18 ug/L
RT: 7.27 min Scan# 482
Delta R.T. 0.01 min
Lab File: 8M408239.D
Acq: 23 Oct 2015 16:35

Tgt Ion: 84 Resp: 1251

Ion	Ratio	Lower	Upper
84	100		
49	165.7	98.6	230.2

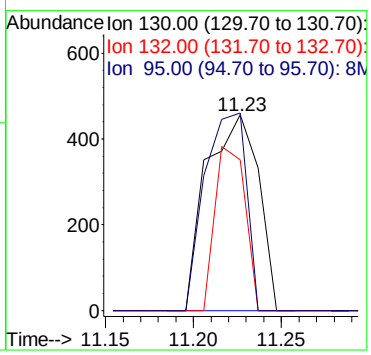




#47
Trichloroethene
Concen: 0.13 ug/L
RT: 11.23 min Scan# 865
Delta R.T. 0.01 min
Lab File: 8M408239.D
Acq: 23 Oct 2015 16:35

Tgt Ion:130 Resp: 936

Ion	Ratio	Lower	Upper
130	100		
132	48.5	59.0	137.6#
95	80.9	65.0	151.8



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\102315\8M408240.D Vial: 15
Acq On : 23 Oct 2015 17:05 Operator: TMB
Sample : L15101278-15 A FB 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 08:49:29 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

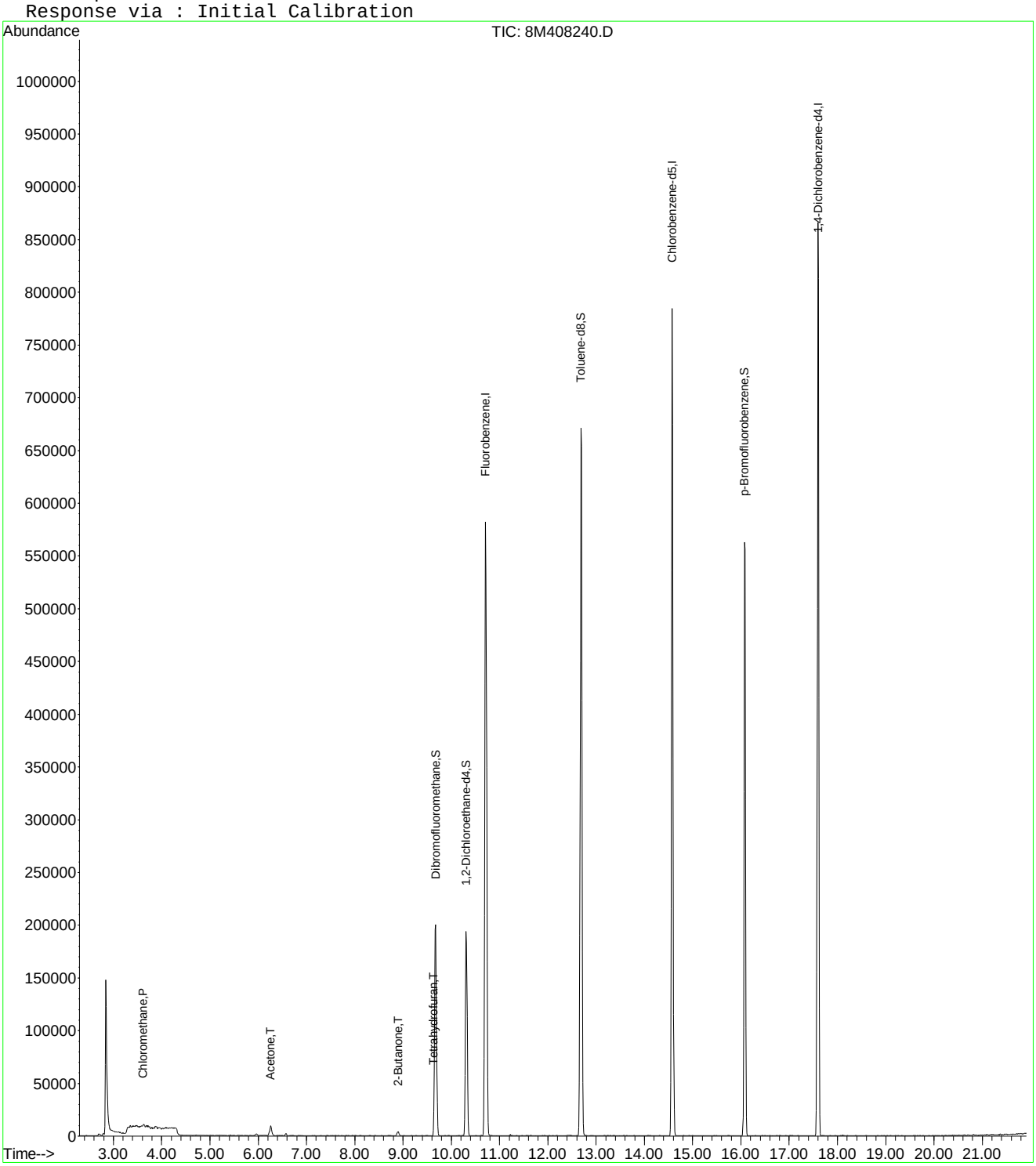
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.71	96	677968	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	521657	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	286067	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.68	111	168579	26.1262 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 104.52%		
43) 1,2-Dichloroethane-d4	10.31	65	172278	26.1868 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 104.76%		
58) Toluene-d8	12.68	98	595761	24.6143 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.44%		
80) p-Bromofluorobenzene	16.07	95	244279	24.4736 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.88%		
Target Compounds					Qvalue
3) Chloromethane	3.62	50	3829	0.2435 ug/L	83
13) Acetone	6.26	43	19774	19.6506 ug/L	99
29) 2-Butanone	8.90	43	8049	4.6427 ug/L	92
36) Tetrahydrofuran	9.64	42	3344	2.9384 ug/L #	71

(#) = qualifier out of range (m) = manual integration
8M408240.D 8260WT.M Sat Oct 24 08:49:29 2015 Page 1

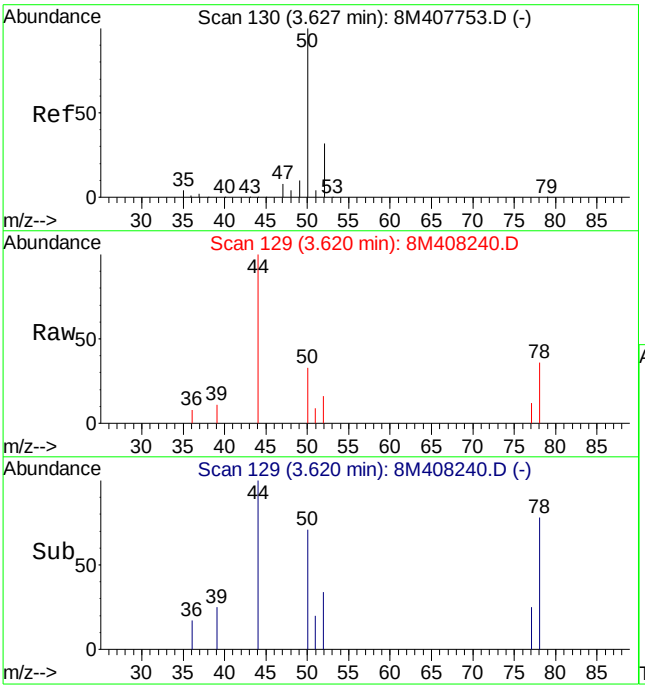
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\102315\8M408240.D Vial: 15
Acq On : 23 Oct 2015 17:05 Operator: TMB
Sample : L15101278-15 A FB 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:49 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration



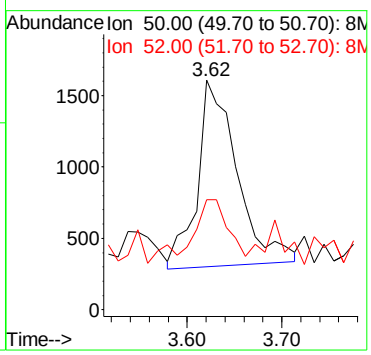
8M408240.D 8260WT.M Sat Oct 24 08:49:29 2015 Page 2

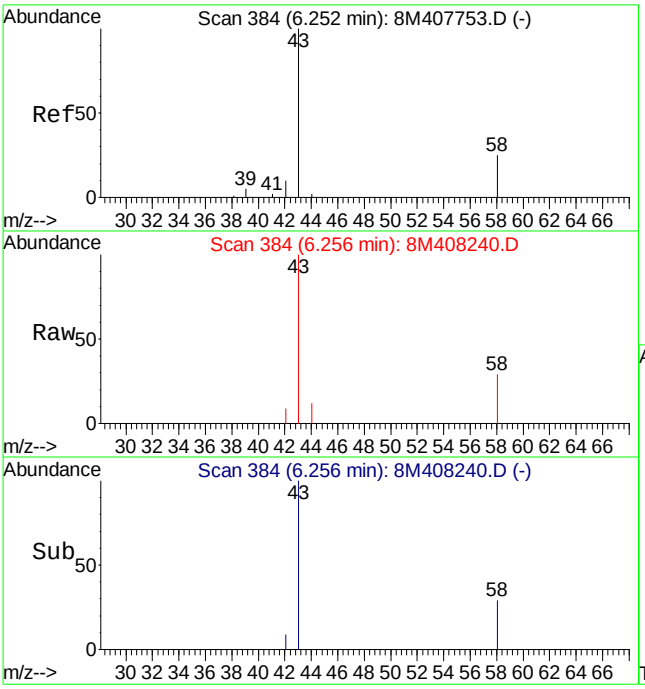


#3
Chloromethane
Concen: 0.24 ug/L
RT: 3.62 min Scan# 129
Delta R.T. 0.00 min
Lab File: 8M408240.D
Acq: 23 Oct 2015 17:05

Tgt Ion: 50 Resp: 3829

Ion	Ratio	Lower	Upper
50	100		
52	22.6	19.2	44.8

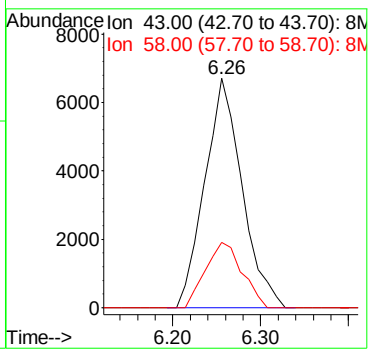


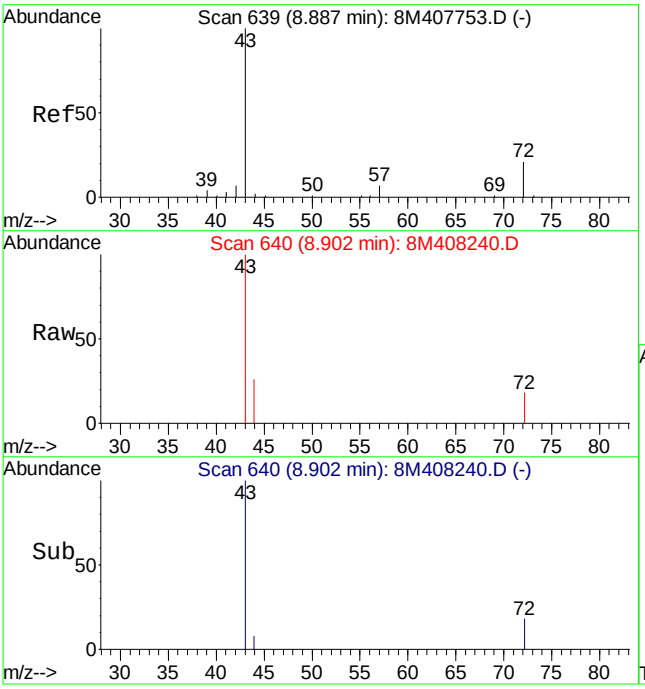


#13
Acetone
Concen: 19.65 ug/L
RT: 6.26 min Scan# 384
Delta R.T. 0.01 min
Lab File: 8M408240.D
Acq: 23 Oct 2015 17:05

Tgt Ion: 43 Resp: 19774

Ion	Ratio	Lower	Upper
43	100		
58	28.1	16.4	38.2

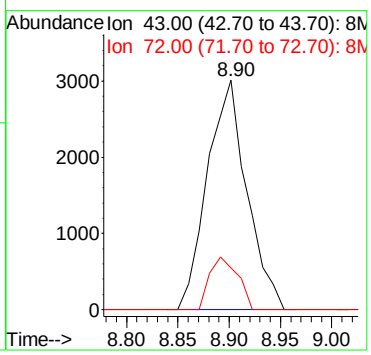


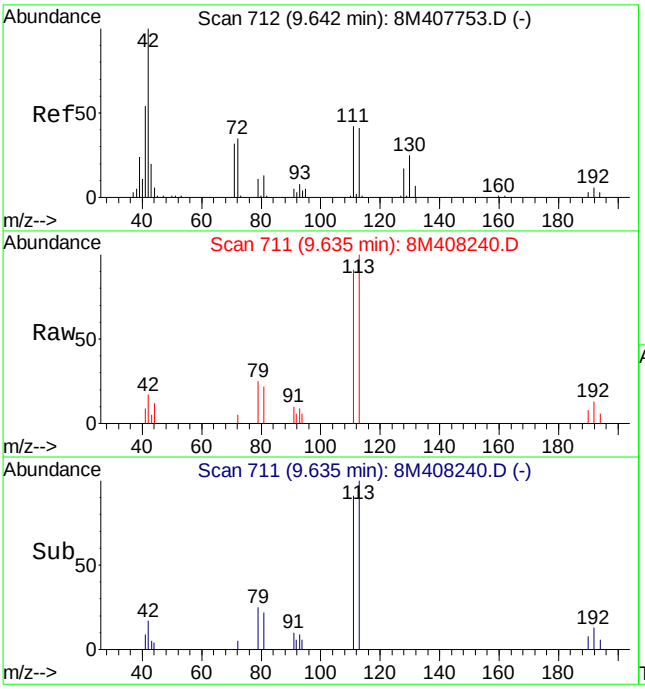


#29
2-Butanone
Concen: 4.64 ug/L
RT: 8.90 min Scan# 640
Delta R.T. 0.01 min
Lab File: 8M408240.D
Acq: 23 Oct 2015 17:05

Tgt Ion: 43 Resp: 8049

Ion	Ratio	Lower	Upper
43	100		
72	16.4	11.9	27.9

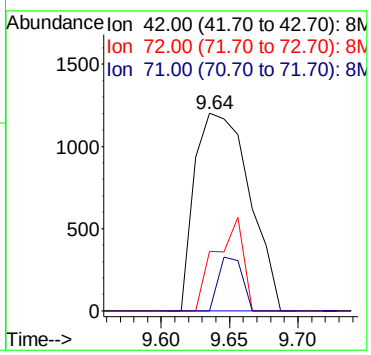




#36
Tetrahydrofuran
Concen: 2.94 ug/L
RT: 9.64 min Scan# 711
Delta R.T. -0.00 min
Lab File: 8M408240.D
Acq: 23 Oct 2015 17:05

Tgt Ion: 42 Resp: 3344

Ion	Ratio	Lower	Upper
42	100		
72	24.0	22.4	52.4
71	11.7	19.5	45.5#



2.1.1.4 Standards Data

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014368.D
Acq On : 12 Aug 2015 15:10
Operator : ADC
Sample : WG534785-02 50ug/L CCV-STD
Misc : 1,1 STD71944
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 12:17:21 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	463482	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.976	117	345157	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.308	152	180929	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.183	111	123004	25.8855	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 103.542%			
34) 1,2-Dichloroethane-d4	4.817	65	108655	25.1024	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 100.410%			
47) Toluene-d8	6.713	98	461314	26.0612	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.245%			
66) p-Bromofluorobenzene	8.726	95	165499	26.4264	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.706%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.038	85	307280	52.5785	ug/L	100
3) Chloromethane	1.151	50	231983	49.1330	ug/L	100
4) Vinyl Chloride	1.195	62	269981	49.3339	ug/L	100
5) 1,3-Butadiene	1.206	54	207195	48.7647	ug/L	99
6) Bromomethane	1.383	94	109645	36.3746	ug/L	100
7) Chloroethane	1.452	64	119504	46.7309	ug/L	100
8) Trichlorofluoromethane	1.539	101	401281	49.6754	ug/L	100
9) Diethyl ether	1.748	59	157335	45.7459	ug/L	100
10) 1,1-Dichloroethene	1.869	61	336597	48.6943	ug/L	100
11) Carbon Disulfide	1.884	76	723475	47.8147	ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.901	101	243441	49.7913	ug/L	100
13) Iodomethane	1.965	142	425875	49.3852	ug/L	100
14) Acrolein	2.113	56	23343	42.2943	ug/L	100
15) Methylene Chloride	2.292	84	240735	46.1146	ug/L	100
16) Acetone	2.344	43	33477	42.8031	ug/L	99
17) trans-1,2-Dichloroethene	2.422	96	237496	47.9021	ug/L	100
18) Methyl Acetate	2.448	43	121446	41.9010	ug/L #	100
19) Methyl Tert Butyl Ether	2.530	73	543613	45.0558	ug/L	100
20) 1,1-Dichloroethane	2.978	63	413335	48.2326	ug/L	100
21) Acrylonitrile	3.039	53	48505	44.9977	ug/L	100
22) Vinyl Acetate	3.279	86	15416	50.4173	ug/L	100
23) cis-1,2-Dichloroethene	3.569	96	264766	46.9935	ug/L	100
24) 2,2-Dichloropropane	3.696	77	371561	51.5928	ug/L	100
25) Cyclohexane	3.798	56	379664	48.2635	ug/L	100
26) Bromochloromethane	3.809	130	168733	47.6302	ug/L	100
27) Chloroform	3.937	83	421987	45.8885	ug/L	100
28) Carbon Tetrachloride	4.084	117	368804	49.7378	ug/L	100
30) 1,1,1-Trichloroethane	4.180	97	394491	47.7699	ug/L	100
31) 1,1-Dichloropropene	4.348	75	319986	48.6743	ug/L	100
32) 2-Butanone	4.371	43	54853	42.9989	ug/L	100
33) Benzene	4.652	78	947092	47.8504	ug/L	100
35) 1,2-Dichloroethane	4.895	62	275340	46.5855	ug/L	100
36) Methylcyclohexane	5.300	83	435823	48.8005	ug/L	100
37) Trichloroethene	5.326	130	281250	47.0972	ug/L	100
38) Dibromomethane	5.746	93	137070	46.8754	ug/L	100
39) 1,2-Dichloropropane	5.853	63	240742	47.6012	ug/L	100
40) Bromodichloromethane	5.940	83	326997	47.8657	ug/L	100
41) 1,4-Dioxane	6.152	88	3403	88.2349	ug/L	100
42) 2-Chloroethyl Vinyl Ether	6.531	63	108962	47.4254	ug/L	100
43) cis-1,3-Dichloropropene	6.548	75	379725	48.6880	ug/L	100
44) 4-Methyl-2-Pentanone	7.816	58	50790	43.5236	ug/L	100
45) trans-1,3-Dichloropropene	7.148	75	319527	48.0213	ug/L	100
48) Toluene	6.760	91	1090249	46.1992	ug/L	100
49) Tetrachloroethene	7.090	166	316442	48.8075	ug/L	100

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014368.D
Acq On : 12 Aug 2015 15:10
Operator : ADC
Sample : WG534785-02 50ug/L CCV-STD
Misc : 1,1 STD71944
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 12:17:21 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

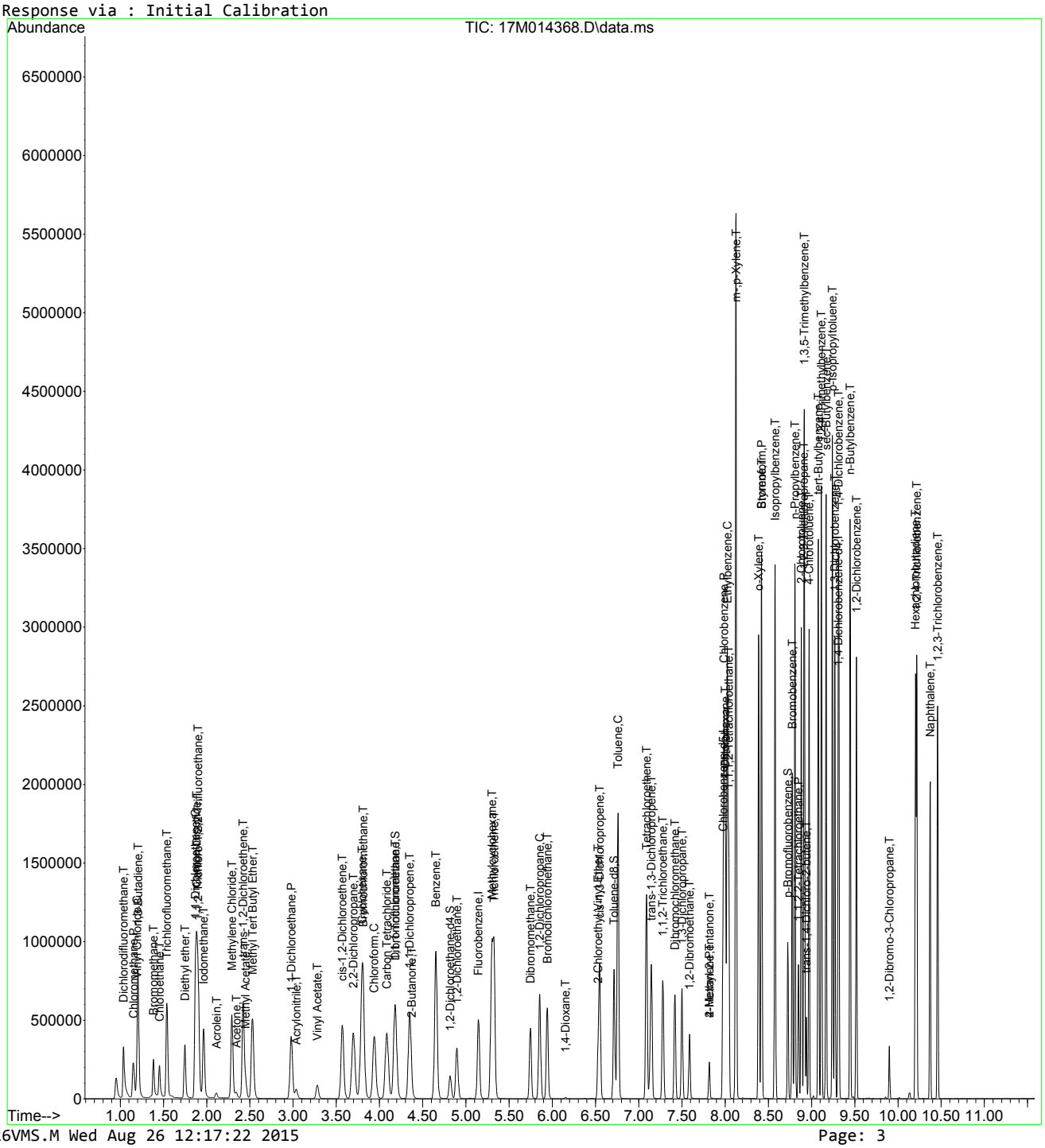
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,1,2-Trichloroethane	7.278	97	189519	45.4020	ug/L		100
51) Dibromochloromethane	7.417	129	264079	47.9846	ug/L		100
52) 1,3-Dichloropropane	7.501	76	296479	45.6746	ug/L		100
53) 1,2-Dibromoethane	7.588	107	190953	45.2385	ug/L		100
54) 2-Hexanone	7.816	43	90254	42.6565	ug/L		100
55) Chlorobenzene	7.987	112	719736	48.4886	ug/L		100
56) 1-Chlorohexane	8.002	69	65246	48.5958	ug/L		100
57) Ethylbenzene	8.025	106	389960	48.9328	ug/L		100
58) 1,1,1,2-Tetrachloroethane	8.039	131	270902	48.5064	ug/L		100
59) m-,p-Xylene	8.126	106	946735	100.0608	ug/L		100
60) o-Xylene	8.387	106	461904	48.5678	ug/L		100
61) Styrene	8.422	104	757618	49.2878	ug/L		100
62) Bromoform	8.422	173	178634	48.2542	ug/L		100
63) Isopropylbenzene	8.578	105	1219631	49.6409	ug/L		100
65) 1,3,5-Trimethylbenzene	8.917	105	1073452	50.5029	ug/L		100
67) Bromobenzene	8.778	156	336565	46.6920	ug/L		100
68) n-Propylbenzene	8.807	91	1385845	51.2441	ug/L		100
69) 1,1,2,2-Tetrachloroethane	8.847	83	219442	45.4990	ug/L		100
70) 2-Chlorotoluene	8.882	91	838108	49.3881	ug/L		100
71) 1,2,3-Trichloropropane	8.911	110	60023	45.0309	ug/L		98
72) trans-1,4-Dichloro-2-b...	8.940	53	45063	50.7959	ug/L	#	99
73) 1,2,4-Trimethylbenzene	9.114	105	1064614	50.4318	ug/L		100
74) 4-Chlorotoluene	8.972	91	840870	49.4591	ug/L		100
75) tert-Butylbenzene	9.079	134	204499	48.8933	ug/L		100
76) sec-Butylbenzene	9.169	105	1329567	51.2248	ug/L		100
77) p-Isopropyltoluene	9.241	119	1175433	52.2551	ug/L		100
78) 1,3-Dichlorobenzene	9.270	146	615653	49.4327	ug/L		100
79) 1,4-Dichlorobenzene	9.313	146	605098	47.8640	ug/L		100
80) n-Butylbenzene	9.447	91	1010785	53.1805	ug/L		100
81) 1,2-Dichlorobenzene	9.519	146	581474	47.4522	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.901	75	39176	45.9207	ug/L		100
83) Hexachlorobutadiene	10.202	225	272287	49.5623	ug/L		100
84) 1,2,4-Trichlorobenzene	10.217	180	445549	49.1751	ug/L		100
85) Naphthalene	10.373	128	782127	45.6977	ug/L		100
86) 1,2,3-Trichlorobenzene	10.460	180	409368	47.4850	ug/L		100

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014368.D
Acq On : 12 Aug 2015 15:10
Operator : ADC
Sample : WG534785-02 50ug/L CCV-STD
Misc : 1,1 STD71944
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 12:17:21 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration



826VMS.M Wed Aug 26 12:17:22 2015 Page: 3

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014370.D
Acq On : 12 Aug 2015 15:50
Operator : ADC
Sample : WG534785-03 0.3ug/L STD
Misc : 1,1 STD71944
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 20 16:11:23 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	438294	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.976	117	325024	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.305	152	170180	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	0.000	111	0	0.0000	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.000%#		
34) 1,2-Dichloroethane-d4	0.000	65	0	0.0000	ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.000%#		
47) Toluene-d8	6.710	98	1041	0.0625	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.250%#		
66) p-Bromofluorobenzene	8.723	95	464	0.0788	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.315%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.038	85	2012	0.3641	ug/L #	72
3) Chloromethane	1.151	50	1948	0.4363	ug/L	95
4) Vinyl Chloride	1.195	62	1863	0.3600	ug/L #	55
5) 1,3-Butadiene	1.209	54	1223	0.3044	ug/L #	70
6) Bromomethane	1.383	94	1485	0.5210	ug/L	91
7) Chloroethane	1.458	64	1413	Below Cal	#	76
8) Trichlorofluoromethane	1.545	101	2745	0.3593	ug/L	96
9) Diethyl ether	1.748	59	905	0.2783	ug/L	87
10) 1,1-Dichloroethene	1.869	61	2350	0.3595	ug/L	89
11) Carbon Disulfide	1.887	76	4933	0.3448	ug/L #	92
12) 1,1,2-Trichloro-1,2,2-...	1.904	101	1733	0.3748	ug/L	96
13) Iodomethane	1.965	142	583	0.7889	ug/L #	36
14) Acrolein	2.107	56	229	0.4388	ug/L #	1
15) Methylene Chloride	2.289	84	2323	0.4706	ug/L	81
16) Acetone	2.336	43	835	1.1290	ug/L #	39
17) trans-1,2-Dichloroethene	2.420	96	1817	0.3875	ug/L	98
18) Methyl Acetate	2.451	43	883	0.3222	ug/L #	56
19) Methyl Tert Butyl Ether	2.530	73	4213	0.3692	ug/L #	81
20) 1,1-Dichloroethane	2.981	63	2897	0.3575	ug/L	97
21) Acrylonitrile	3.033	53	210	0.2060	ug/L #	8
23) cis-1,2-Dichloroethene	3.569	96	2005	0.3763	ug/L	91
24) 2,2-Dichloropropane	3.705	77	2644	0.3882	ug/L	90
25) Cyclohexane	3.804	56	2361	0.3174	ug/L #	87
26) Bromochloromethane	3.809	130	1002	0.2991	ug/L	92
27) Chloroform	3.942	83	3318	0.3815	ug/L #	91
28) Carbon Tetrachloride	4.081	117	2403	0.3427	ug/L	98
30) 1,1,1-Trichloroethane	4.174	97	2920	0.3739	ug/L	94
31) 1,1-Dichloropropene	4.351	75	2312	0.3719	ug/L #	80
32) 2-Butanone	4.374	43	974	0.8074	ug/L #	33
33) Benzene	4.652	78	7113	0.3800	ug/L	97
35) 1,2-Dichloroethane	4.895	62	1976	0.3535	ug/L #	83
36) Methylcyclohexane	5.300	83	2641	0.3127	ug/L #	83
37) Trichloroethene	5.324	130	2261	0.4004	ug/L	98
38) Dibromomethane	5.746	93	966	0.3493	ug/L	98
39) 1,2-Dichloropropane	5.856	63	1719	0.3594	ug/L	92
40) Bromodichloromethane	5.940	83	2303	0.3565	ug/L	98
42) 2-Chloroethyl Vinyl Ether	6.528	63	570	0.2623	ug/L #	43
43) cis-1,3-Dichloropropene	6.545	75	2640	0.3580	ug/L	98
44) 4-Methyl-2-Pentanone	7.816	58	287	0.2601	ug/L #	57
45) trans-1,3-Dichloropropene	7.145	75	2221	0.3530	ug/L	94
48) Toluene	6.760	91	10524	0.4736	ug/L	98
49) Tetrachloroethene	7.087	166	2246	0.3679	ug/L	97
50) 1,1,2-Trichloroethane	7.278	97	1508	0.3836	ug/L	97
51) Dibromochloromethane	7.417	129	1833	0.3537	ug/L	97

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014370.D
Acq On : 12 Aug 2015 15:50
Operator : ADC
Sample : WG534785-03 0.3ug/L STD
Misc : 1,1 STD71944
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 20 16:11:23 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

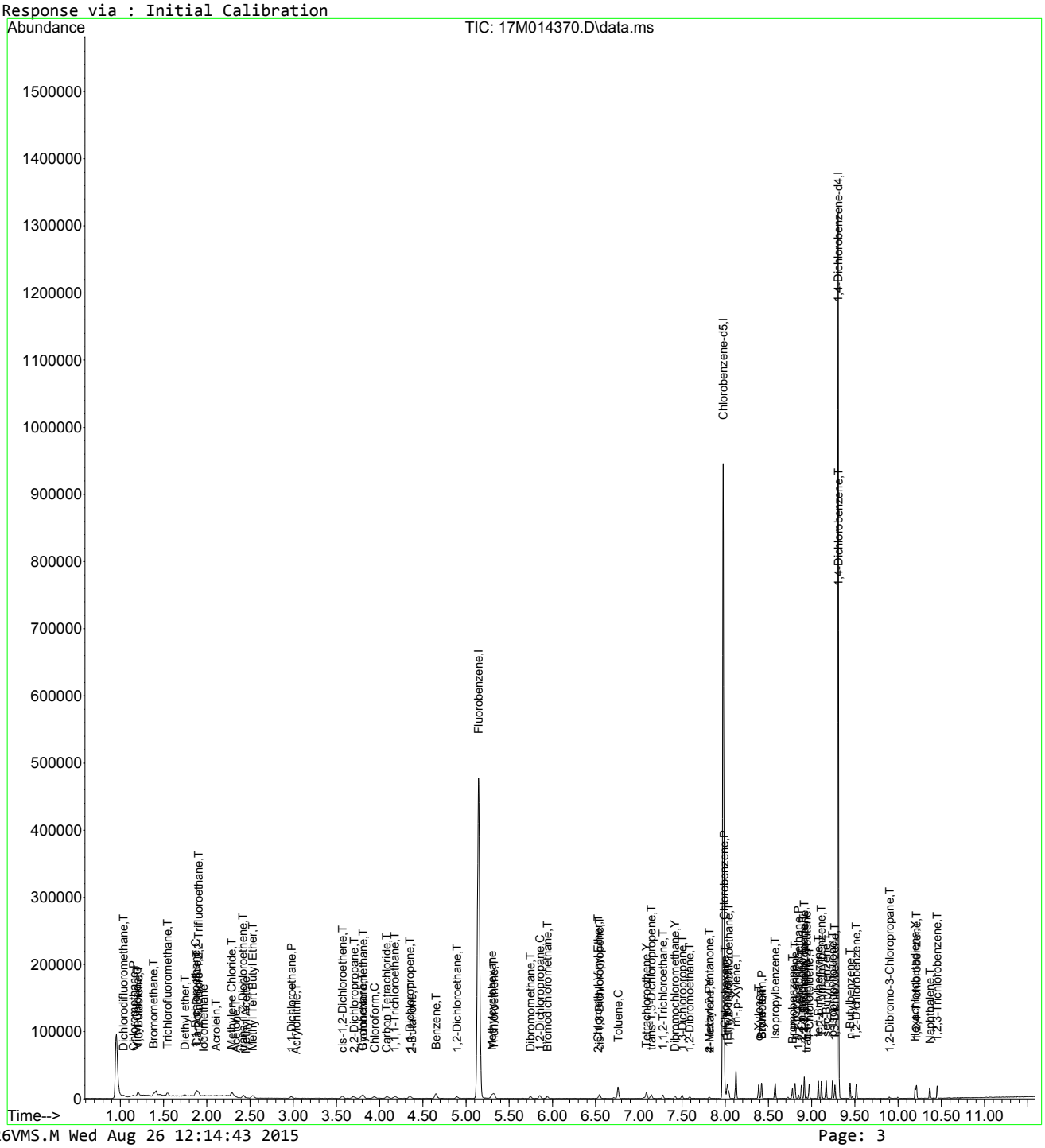
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3-Dichloropropane	7.501	76	2245	0.3673 ug/L #	63
53) 1,2-Dibromoethane	7.588	107	1477	0.3716 ug/L	98
54) 2-Hexanone	7.819	43	1076	0.5400 ug/L #	60
55) Chlorobenzene	7.987	112	5270	0.3770 ug/L #	21
56) 1-Chlorohexane	7.996	69	428	0.3385 ug/L #	1
57) Ethylbenzene	8.022	106	2715	0.3618 ug/L	100
58) 1,1,1,2-Tetrachloroethane	8.039	131	1915	0.3641 ug/L	93
59) m-,p-Xylene	8.123	106	6795	0.7627 ug/L	96
60) o-Xylene	8.387	106	3376	0.3770 ug/L	99
61) Styrene	8.419	104	5393	0.3726 ug/L	100
62) Bromoform	8.422	173	1190	0.3414 ug/L	95
63) Isopropylbenzene	8.575	105	8632	0.3731 ug/L	99
65) 1,3,5-Trimethylbenzene	8.914	105	7663	0.3833 ug/L	98
67) Bromobenzene	8.778	156	2529	0.3730 ug/L	97
68) n-Propylbenzene	8.804	91	9665	0.3800 ug/L	98
69) 1,1,2,2-Tetrachloroethane	8.847	83	1695	0.3736 ug/L	98
70) 2-Chlorotoluene	8.882	91	6173	0.3867 ug/L	97
71) 1,2,3-Trichloropropane	8.908	110	438	0.3494 ug/L	93
72) trans-1,4-Dichloro-2-b...	8.940	53	170	0.2037 ug/L #	69
73) 1,2,4-Trimethylbenzene	9.111	105	7610	0.3833 ug/L	97
74) 4-Chlorotoluene	8.969	91	6516	0.4075 ug/L	94
75) tert-Butylbenzene	9.076	134	1466	0.3726 ug/L	98
76) sec-Butylbenzene	9.166	105	9142	0.3745 ug/L	98
77) p-Isopropyltoluene	9.241	119	7803	0.3688 ug/L	100
78) 1,3-Dichlorobenzene	9.267	146	4459	0.3806 ug/L	98
79) 1,4-Dichlorobenzene	9.310	146	4570	0.3843 ug/L	92
80) n-Butylbenzene	9.444	91	6745	0.3773 ug/L	96
81) 1,2-Dichlorobenzene	9.516	146	4247	0.3685 ug/L	98
82) 1,2-Dibromo-3-Chloropr...	9.901	75	230	0.2866 ug/L	94
83) Hexachlorobutadiene	10.196	225	1915	0.3706 ug/L	95
84) 1,2,4-Trichlorobenzene	10.211	180	3286	0.3856 ug/L	98
85) Naphthalene	10.367	128	6370	0.3957 ug/L	97
86) 1,2,3-Trichlorobenzene	10.451	180	3047	0.3758 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014370.D
Acq On : 12 Aug 2015 15:50
Operator : ADC
Sample : WG534785-03 0.3ug/L STD
Misc : 1,1 STD71944
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 20 16:11:23 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration



826VMS.M Wed Aug 26 12:14:43 2015 Page: 3

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014370.D
Acq On : 12 Aug 2015 15:50
Operator : ADC
Sample : WG534785-03 0.3ug/L STD
Misc : 1,1 STD71944
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 20 16:11:23 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
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	0.364	0.0	0	0.000
3	P	Chloromethane	-1.000	0.436	0.0	0	0.000
4	C	Vinyl Chloride	-1.000	0.360	0.0	0	0.000
5	T	1,3-Butadiene	-1.000	0.304	0.0	0	0.000
6	T	Bromomethane	-1.000	0.521	0.0	0	0.000
7	T	Chloroethane	-1.000	-1.000	0.0	0	0.000
8	T	Trichlorofluoromethane	-1.000	0.359	0.0	0	0.000
9	T	Diethyl ether	-1.000	0.278	0.0	0	0.000
10	C	1,1-Dichloroethene	-1.000	0.360	0.0	0	0.000
11	T	Carbon Disulfide	-1.000	0.345	0.0	0	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	-1.000	0.375	0.0	0	0.000
13	T	Iodomethane	-1.000	0.789	0.0	0	0.000
14	T	Acrolein	-1.000	0.439	0.0	0	0.000
15	T	Methylene Chloride	-1.000	0.471	0.0	0	0.000
16	T	Acetone	-1.000	1.129	0.0	0	0.000
17	T	trans-1,2-Dichloroethene	-1.000	0.388	0.0	0	0.000
18	T	Methyl Acetate	0.300	0.322	-7.3	100	0.000
19	T	Methyl Tert Butyl Ether	-1.000	0.369	0.0	0	0.000
20	P	1,1-Dichloroethane	-1.000	0.357	0.0	0	0.000
21	T	Acrylonitrile	-1.000	0.206	0.0	0	0.000
22	T	Vinyl Acetate	-1.000	0.000	0.0	0	-3.279#
23	T	cis-1,2-Dichloroethene	-1.000	0.376	0.0	0	0.000
24	T	2,2-Dichloropropane	-1.000	0.388	0.0	0	0.000
25	T	Cyclohexane	-1.000	0.317	0.0	0	0.000
26	T	Bromochloromethane	-1.000	0.299	0.0	0	0.000
27	C	Chloroform	0.300	0.382	-27.3#	100	0.000
28	T	Carbon Tetrachloride	-1.000	0.343	0.0	0	0.000
29	S	Dibromofluoromethane	-1.000	0.000	0.0	0	-4.183#
30	T	1,1,1-Trichloroethane	-1.000	0.374	0.0	0	0.000
31	T	1,1-Dichloropropene	-1.000	0.372	0.0	0	0.000
32	T	2-Butanone	-1.000	0.807	0.0	0	0.000
33	T	Benzene	-1.000	0.380	0.0	0	0.000
34	S	1,2-Dichloroethane-d4	-1.000	0.000	0.0	0	-4.817#
35	T	1,2-Dichloroethane	-1.000	0.354	0.0	0	0.000
36	T	Methylcyclohexane	0.300	0.313	-4.3	100	0.000
37	T	Trichloroethene	-1.000	0.400	0.0	0	0.000
38	T	Dibromomethane	-1.000	0.349	0.0	0	0.000
39	C	1,2-Dichloropropane	-1.000	0.359	0.0	0	0.000
40	T	Bromodichloromethane	-1.000	0.356	0.0	0	0.000
41	T	1,4-Dioxane	-1.000	0.000	0.0	0	-6.152#
42	T	2-Chloroethyl Vinyl Ether	-1.000	0.262	0.0	0	0.000
43	T	cis-1,3-Dichloropropene	-1.000	0.358	0.0	0	0.000
44	T	4-Methyl-2-Pentanone	-1.000	0.260	0.0	0	0.000
45	T	trans-1,3-Dichloropropene	-1.000	0.353	0.0	0	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
47	S	Toluene-d8	-1.000	0.062	0.0	0	0.000
48	C	Toluene	-1.000	0.474	0.0	0	0.000
49	T	Tetrachloroethene	-1.000	0.368	0.0	0	0.000
50	T	1,1,2-Trichloroethane	-1.000	0.384	0.0	0	0.000
51	T	Dibromochloromethane	-1.000	0.354	0.0	0	0.000
52	T	1,3-Dichloropropane	-1.000	0.367	0.0	0	0.000
53	T	1,2-Dibromoethane	-1.000	0.372	0.0	0	0.000
54	T	2-Hexanone	-1.000	0.540	0.0	0	0.000
55	P	Chlorobenzene	-1.000	0.377	0.0	0	0.000

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014370.D
Acq On : 12 Aug 2015 15:50
Operator : ADC
Sample : WG534785-03 0.3ug/L STD
Misc : 1,1 STD71944
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 20 16:11:23 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
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	1-Chlorohexane	-1.000	0.339	0.0	0	0.000
57	C	Ethylbenzene	-1.000	0.362	0.0	0	0.000
58	T	1,1,1,2-Tetrachloroethane	-1.000	0.364	0.0	0	0.000
59	T	m-,p-Xylene	-1.000	0.763	0.0	0	0.000
60	T	o-Xylene	-1.000	0.377	0.0	0	0.000
61	T	Styrene	-1.000	0.373	0.0	0	0.000
62	P	Bromoform	-1.000	0.341	0.0	0	0.000
63	T	Isopropylbenzene	-1.000	0.373	0.0	0	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
65	T	1,3,5-Trimethylbenzene	-1.000	0.383	0.0	0	0.000
66	S	p-Bromofluorobenzene	-1.000	0.079	0.0	0	0.000
67	T	Bromobenzene	0.300	0.373	-24.3	100	0.000
68	T	n-Propylbenzene	-1.000	0.380	0.0	0	0.000
69	P	1,1,2,2-Tetrachloroethane	-1.000	0.374	0.0	0	0.000
70	T	2-Chlorotoluene	-1.000	0.387	0.0	0	0.000
71	T	1,2,3-Trichloropropane	-1.000	0.349	0.0	0	0.000
72	T	trans-1,4-Dichloro-2-butene	0.300	0.204	32.0#	100	0.000
73	T	1,2,4-Trimethylbenzene	-1.000	0.383	0.0	0	0.000
74	T	4-Chlorotoluene	-1.000	0.407	0.0	0	0.000
75	T	tert-Butylbenzene	-1.000	0.373	0.0	0	0.000
76	T	sec-Butylbenzene	-1.000	0.374	0.0	0	0.000
77	T	p-Isopropyltoluene	-1.000	0.369	0.0	0	0.000
78	T	1,3-Dichlorobenzene	-1.000	0.381	0.0	0	0.000
79	T	1,4-Dichlorobenzene	0.300	0.384	-28.0#	100	0.000
80	T	n-Butylbenzene	-1.000	0.377	0.0	0	0.000
81	T	1,2-Dichlorobenzene	0.300	0.368	-22.7	100	0.000
82	T	1,2-Dibromo-3-Chloropropane	-1.000	0.287	0.0	0	0.000
83	T	Hexachlorobutadiene	-1.000	0.371	0.0	0	0.000
84	T	1,2,4-Trichlorobenzene	-1.000	0.386	0.0	0	0.000
85	T	Naphthalene	-1.000	0.396	0.0	0	0.000
86	T	1,2,3-Trichlorobenzene	-1.000	0.376	0.0	0	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014371.D
Acq On : 12 Aug 2015 16:10
Operator : ADC
Sample : WG534785-04 0.4ug/L STD
Misc : 1,1 STD71944
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 16:11:25 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	437714	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.976	117	325981	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.305	152	168590	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	0.000	111	0	0.0000	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.000%#		
34) 1,2-Dichloroethane-d4	0.000	65	0	0.0000	ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.000%#		
47) Toluene-d8	6.710	98	783	0.0468	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.187%#		
66) p-Bromofluorobenzene	8.726	95	336	0.0576	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.230%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.038	85	2075	0.3760	ug/L #	72
3) Chloromethane	1.148	50	2135	0.4788	ug/L	91
4) Vinyl Chloride	1.195	62	2016	0.3901	ug/L #	45
5) 1,3-Butadiene	1.209	54	1718	0.4281	ug/L	82
6) Bromomethane	1.383	94	1732	0.6084	ug/L	89
7) Chloroethane	1.461	64	1748	Below Cal	#	77
8) Trichlorofluoromethane	1.545	101	3123	0.4094	ug/L #	95
9) Diethyl ether	1.748	59	1371	0.4221	ug/L	90
10) 1,1-Dichloroethene	1.872	61	2698	0.4133	ug/L	87
11) Carbon Disulfide	1.887	76	6498	0.4547	ug/L #	94
12) 1,1,2-Trichloro-1,2,2-...	1.904	101	1871	0.4052	ug/L	96
13) Iodomethane	1.971	142	818	0.8174	ug/L	90
14) Acrolein	2.170	56	513	0.9842	ug/L	78
15) Methylene Chloride	2.292	84	2268	0.4600	ug/L	93
16) Acetone	2.338	43	1802	2.4396	ug/L #	49
17) trans-1,2-Dichloroethene	2.419	96	1997	0.4265	ug/L	99
18) Methyl Acetate	2.446	43	1502	0.5487	ug/L #	56
19) Methyl Tert Butyl Ether	2.532	73	4853	0.4259	ug/L #	85
20) 1,1-Dichloroethane	2.978	63	3349	0.4138	ug/L	98
21) Acrylonitrile	3.036	53	365	0.3585	ug/L	72
23) cis-1,2-Dichloroethene	3.572	96	2310	0.4341	ug/L	94
24) 2,2-Dichloropropane	3.699	77	2990	0.4396	ug/L #	53
25) Cyclohexane	3.803	56	3204	0.4313	ug/L #	81
26) Bromochloromethane	3.812	130	1306	0.3904	ug/L	95
27) Chloroform	3.934	83	3618	0.4166	ug/L	93
28) Carbon Tetrachloride	4.087	117	2619	0.3740	ug/L #	89
30) 1,1,1-Trichloroethane	4.180	97	3387	0.4343	ug/L	92
31) 1,1-Dichloropropene	4.351	75	2550	0.4107	ug/L #	79
32) 2-Butanone	4.380	43	1275	1.0583	ug/L #	33
33) Benzene	4.652	78	7920	0.4237	ug/L	99
35) 1,2-Dichloroethane	4.892	62	2267	0.4061	ug/L #	87
36) Methylcyclohexane	5.303	83	3575	0.4239	ug/L	90
37) Trichloroethene	5.326	130	2416	0.4284	ug/L	95
38) Dibromomethane	5.743	93	1110	0.4019	ug/L	100
39) 1,2-Dichloropropane	5.853	63	1992	0.4171	ug/L	98
40) Bromodichloromethane	5.937	83	2705	0.4193	ug/L	100
42) 2-Chloroethyl Vinyl Ether	6.531	63	906	0.4175	ug/L	88
43) cis-1,3-Dichloropropene	6.548	75	3094	0.4201	ug/L	100
44) 4-Methyl-2-Pentanone	7.816	58	501	0.4546	ug/L #	57
45) trans-1,3-Dichloropropene	7.145	75	2505	0.3986	ug/L	95
48) Toluene	6.757	91	11468	0.5145	ug/L	97
49) Tetrachloroethene	7.090	166	2598	0.4243	ug/L	98
50) 1,1,2-Trichloroethane	7.275	97	1681	0.4264	ug/L	96
51) Dibromochloromethane	7.420	129	1981	0.3811	ug/L	98

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014371.D
Acq On : 12 Aug 2015 16:10
Operator : ADC
Sample : WG534785-04 0.4ug/L STD
Misc : 1,1 STD71944
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 16:11:25 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

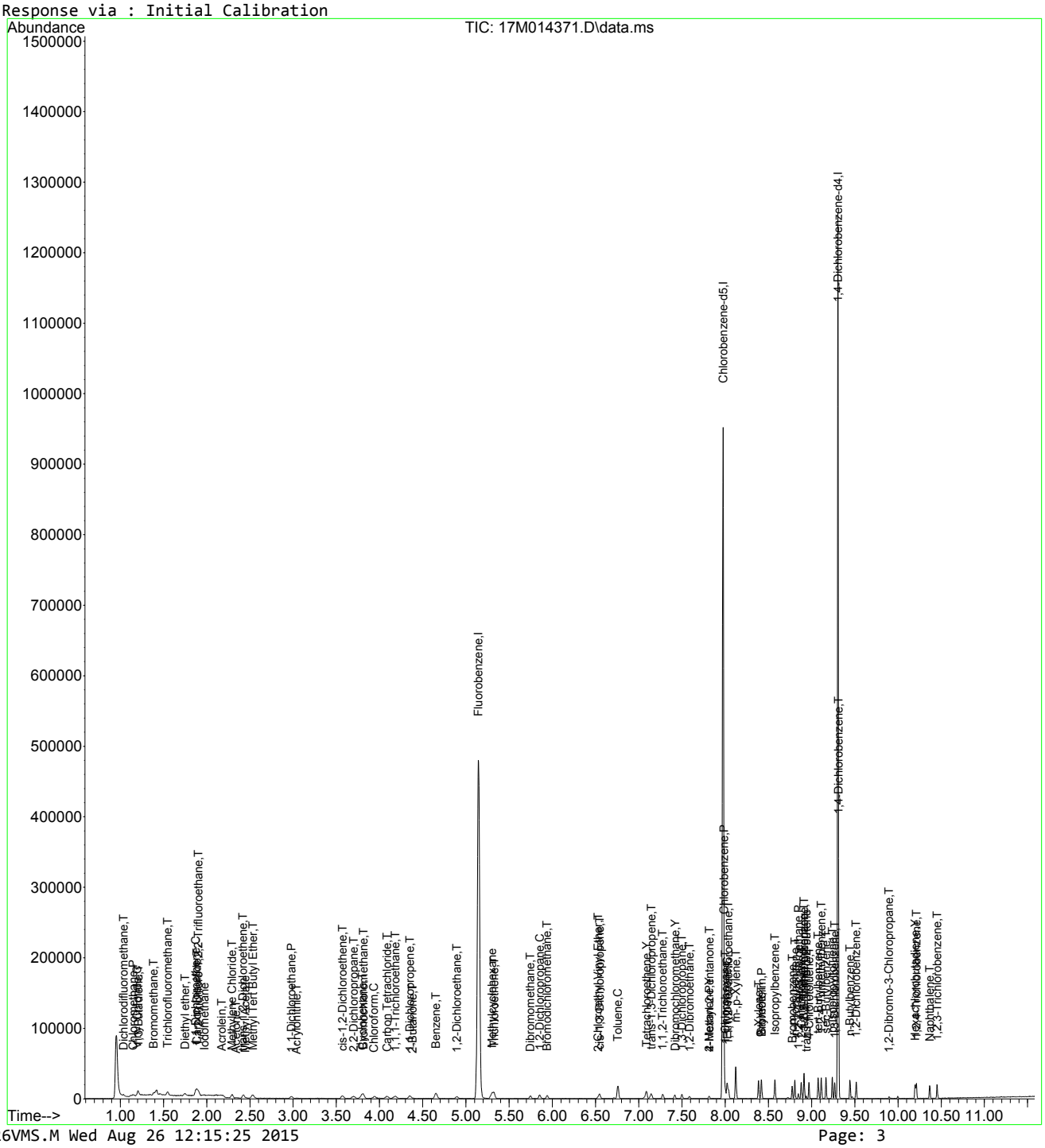
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,3-Dichloropropane	7.498	76	2634	0.4297	ug/L		71
53) 1,2-Dibromoethane	7.585	107	1680	0.4214	ug/L		97
54) 2-Hexanone	7.813	43	1431	0.7161	ug/L	#	71
55) Chlorobenzene	7.987	112	6055	0.4319	ug/L	#	36
56) 1-Chlorohexane	8.002	69	616	0.4858	ug/L		78
57) Ethylbenzene	8.022	106	3099	0.4117	ug/L		84
58) 1,1,1,2-Tetrachloroethane	8.036	131	2158	0.4091	ug/L		89
59) m-,p-Xylene	8.123	106	7742	0.8664	ug/L		96
60) o-Xylene	8.387	106	3782	0.4211	ug/L		94
61) Styrene	8.419	104	6000	0.4133	ug/L		100
62) Bromoform	8.422	173	1355	0.3876	ug/L		97
63) Isopropylbenzene	8.575	105	9944	0.4285	ug/L		98
65) 1,3,5-Trimethylbenzene	8.914	105	8679	0.4382	ug/L		97
67) Bromobenzene	8.778	156	2744	0.4085	ug/L		98
68) n-Propylbenzene	8.807	91	10850	0.4306	ug/L		99
69) 1,1,2,2-Tetrachloroethane	8.847	83	2000	0.4450	ug/L		97
70) 2-Chlorotoluene	8.882	91	7030	0.4446	ug/L		98
71) 1,2,3-Trichloropropane	8.911	110	556	0.4477	ug/L		97
72) trans-1,4-Dichloro-2-b...	8.940	53	340	0.4113	ug/L	#	78
73) 1,2,4-Trimethylbenzene	9.114	105	8562	0.4353	ug/L		98
74) 4-Chlorotoluene	8.972	91	6966	0.4397	ug/L		97
75) tert-Butylbenzene	9.076	134	1685	0.4323	ug/L		98
76) sec-Butylbenzene	9.166	105	10471	0.4329	ug/L		99
77) p-Isopropyltoluene	9.241	119	8754	0.4177	ug/L		100
78) 1,3-Dichlorobenzene	9.267	146	4992	0.4302	ug/L		99
79) 1,4-Dichlorobenzene	9.313	146	4941	0.4194	ug/L		87
80) n-Butylbenzene	9.444	91	7299	0.4121	ug/L		98
81) 1,2-Dichlorobenzene	9.516	146	4818	0.4220	ug/L		96
82) 1,2-Dibromo-3-Chloropr...	9.895	75	317	0.3988	ug/L		90
83) Hexachlorobutadiene	10.199	225	2213	0.4323	ug/L		96
84) 1,2,4-Trichlorobenzene	10.214	180	3581	0.4242	ug/L		97
85) Naphthalene	10.367	128	6956	0.4362	ug/L		100
86) 1,2,3-Trichlorobenzene	10.454	180	3502	0.4359	ug/L		99

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014371.D
Acq On : 12 Aug 2015 16:10
Operator : ADC
Sample : WG534785-04 0.4ug/L STD
Misc : 1,1 STD71944
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 16:11:25 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014371.D
Acq On : 12 Aug 2015 16:10
Operator : ADC
Sample : WG534785-04 0.4ug/L STD
Misc : 1,1 STD71944
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 16:11:25 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
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	0.376	0.0	0	0.000
3	P	Chloromethane	-1.000	0.479	0.0	0	0.000
4	C	Vinyl Chloride	0.400	0.390	2.5#	100	0.000
5	T	1,3-Butadiene	0.400	0.428	-7.0	100	0.000
6	T	Bromomethane	-1.000	0.608	0.0	0	0.000
7	T	Chloroethane	-1.000	-1.000	0.0	0	0.000
8	T	Trichlorofluoromethane	0.400	0.409	-2.2	100	0.000
9	T	Diethyl ether	0.400	0.422	-5.5	100	0.000
10	C	1,1-Dichloroethene	0.400	0.413	-3.2#	100	0.000
11	T	Carbon Disulfide	0.400	0.455	-13.7	100	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.400	0.405	-1.3	100	0.000
13	T	Iodomethane	-1.000	0.817	0.0	0	0.000
14	T	Acrolein	-1.000	0.984	0.0	0	0.057
15	T	Methylene Chloride	0.400	0.460	-15.0	100	0.000
16	T	Acetone	-1.000	2.440	0.0	0	0.000
17	T	trans-1,2-Dichloroethene	0.400	0.427	-6.7	100	0.000
18	T	Methyl Acetate	0.400	0.549	-37.3#	100	0.000
19	T	Methyl Tert Butyl Ether	0.400	0.426	-6.5	100	0.000
20	P	1,1-Dichloroethane	0.400	0.414	-3.5	100	0.000
21	T	Acrylonitrile	-1.000	0.359	0.0	0	0.000
22	T	Vinyl Acetate	-1.000	0.000	0.0	0	-3.279#
23	T	cis-1,2-Dichloroethene	0.400	0.434	-8.5	100	0.000
24	T	2,2-Dichloropropane	0.400	0.440	-10.0	100	0.000
25	T	Cyclohexane	0.400	0.431	-7.7	100	0.000
26	T	Bromochloromethane	-1.000	0.390	0.0	0	0.000
27	C	Chloroform	0.400	0.417	-4.2#	100	0.000
28	T	Carbon Tetrachloride	0.400	0.374	6.5	100	0.000
29	S	Dibromofluoromethane	-1.000	0.000	0.0	0	-4.183#
30	T	1,1,1-Trichloroethane	0.400	0.434	-8.5	100	0.000
31	T	1,1-Dichloropropene	0.400	0.411	-2.7	100	0.000
32	T	2-Butanone	-1.000	1.058	0.0	0	0.000
33	T	Benzene	0.400	0.424	-6.0	100	0.000
34	S	1,2-Dichloroethane-d4	-1.000	0.000	0.0	0	-4.817#
35	T	1,2-Dichloroethane	0.400	0.406	-1.5	100	0.000
36	T	Methylcyclohexane	0.400	0.424	-6.0	100	0.000
37	T	Trichloroethene	0.400	0.428	-7.0	100	0.000
38	T	Dibromomethane	0.400	0.402	-0.5	100	0.000
39	C	1,2-Dichloropropane	0.400	0.417	-4.2#	100	0.000
40	T	Bromodichloromethane	0.400	0.419	-4.7	100	0.000
41	T	1,4-Dioxane	-1.000	0.000	0.0	0	-6.152#
42	T	2-Chloroethyl Vinyl Ether	-1.000	0.418	0.0	0	0.000
43	T	cis-1,3-Dichloropropene	0.400	0.420	-5.0	100	0.000
44	T	4-Methyl-2-Pentanone	-1.000	0.455	0.0	0	0.000
45	T	trans-1,3-Dichloropropene	0.400	0.399	0.3	100	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
47	S	Toluene-d8	-1.000	0.047	0.0	0	0.000
48	C	Toluene	0.400	0.515	-28.7#	100	0.000
49	T	Tetrachloroethene	0.400	0.424	-6.0	100	0.000
50	T	1,1,2-Trichloroethane	0.400	0.426	-6.5	100	0.000
51	T	Dibromochloromethane	0.400	0.381	4.8	100	0.000
52	T	1,3-Dichloropropane	0.400	0.430	-7.5	100	0.000
53	T	1,2-Dibromoethane	0.400	0.421	-5.2	100	0.000
54	T	2-Hexanone	-1.000	0.716	0.0	0	0.000
55	P	Chlorobenzene	0.400	0.432	-8.0	100	0.000

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014371.D
Acq On : 12 Aug 2015 16:10
Operator : ADC
Sample : WG534785-04 0.4ug/L STD
Misc : 1,1 STD71944
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 16:11:25 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
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	1-Chlorohexane	0.400	0.486	-21.5	100	0.000
57	C	Ethylbenzene	0.400	0.412	-3.0#	100	0.000
58	T	1,1,1,2-Tetrachloroethane	0.400	0.409	-2.2	100	0.000
59	T	m-,p-Xylene	0.800	0.866	-8.2	100	0.000
60	T	o-Xylene	0.400	0.421	-5.2	100	0.000
61	T	Styrene	0.400	0.413	-3.2	100	0.000
62	P	Bromoform	0.400	0.388	3.0	100	0.000
63	T	Isopropylbenzene	0.400	0.429	-7.2	100	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
65	T	1,3,5-Trimethylbenzene	0.400	0.438	-9.5	100	0.000
66	S	p-Bromofluorobenzene	-1.000	0.058	0.0	0	0.000
67	T	Bromobenzene	0.400	0.409	-2.2	100	0.000
68	T	n-Propylbenzene	0.400	0.431	-7.7	100	0.000
69	P	1,1,2,2-Tetrachloroethane	0.400	0.445	-11.2	100	0.000
70	T	2-Chlorotoluene	0.400	0.445	-11.2	100	0.000
71	T	1,2,3-Trichloropropane	0.400	0.448	-12.0	100	0.000
72	T	trans-1,4-Dichloro-2-butene	0.400	0.411	-2.7	100	0.000
73	T	1,2,4-Trimethylbenzene	0.400	0.435	-8.7	100	0.000
74	T	4-Chlorotoluene	0.400	0.440	-10.0	100	0.000
75	T	tert-Butylbenzene	0.400	0.432	-8.0	100	0.000
76	T	sec-Butylbenzene	0.400	0.433	-8.2	100	0.000
77	T	p-Isopropyltoluene	0.400	0.418	-4.5	100	0.000
78	T	1,3-Dichlorobenzene	0.400	0.430	-7.5	100	0.000
79	T	1,4-Dichlorobenzene	0.400	0.419	-4.7	100	0.000
80	T	n-Butylbenzene	0.400	0.412	-3.0	100	0.000
81	T	1,2-Dichlorobenzene	0.400	0.422	-5.5	100	0.000
82	T	1,2-Dibromo-3-Chloropropane	-1.000	0.399	0.0	0	0.000
83	T	Hexachlorobutadiene	0.400	0.432	-8.0	100	0.000
84	T	1,2,4-Trichlorobenzene	0.400	0.424	-6.0	100	0.000
85	T	Naphthalene	0.400	0.436	-9.0	100	0.000
86	T	1,2,3-Trichlorobenzene	0.400	0.436	-9.0	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\081215\
Data File : 17M014372.D
Acq On : 12 Aug 2015 16:30
Operator : ADC
Sample : WG534785-05 1.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 20 16:11:27 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.144	96	446811	25.00000	ug/L		0.0000
46) Chlorobenzene-d5	7.976	117	330684	25.00000	ug/L		0.0000
64) 1,4-Dichlorobenzene-d4	9.305	152	170640	25.00000	ug/L		0.0000
System Monitoring Compounds							
29) Dibromofluoromethane	0.000	111	0	0.0000	ug/L		
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.000%#			
34) 1,2-Dichloroethane-d4	0.000	65	0	0.0000	ug/L		
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.000%#			
47) Toluene-d8	6.719	98	688	0.0406	ug/L		0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.162%#			
66) p-Bromofluorobenzene	8.726	95	283	0.0479	ug/L		0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.192%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.039	85	5010	0.8892	ug/L		92
3) Chloromethane	1.151	50	4646	1.0207	ug/L		99
4) Vinyl Chloride	1.195	62	5098	0.9663	ug/L		91
5) 1,3-Butadiene	1.209	54	3932	0.9599	ug/L		89
6) Bromomethane	1.383	94	3354	1.1542	ug/L		92
7) Chloroethane	1.464	64	3222	0.3801	ug/L		90
8) Trichlorofluoromethane	1.548	101	7646	0.9818	ug/L		97
9) Diethyl ether	1.748	59	3272	0.9868	ug/L		97
10) 1,1-Dichloroethene	1.870	61	6553	0.9834	ug/L		96
11) Carbon Disulfide	1.887	76	14110	0.9673	ug/L		96
12) 1,1,2-Trichloro-1,2,2-...	1.901	101	4753	1.0084	ug/L		98
13) Iodomethane	1.965	142	3332	1.1134	ug/L		98
14) Acrolein	2.202	56	111	0.2086	ug/L		73
15) Methylene Chloride	2.292	84	5411	1.0752	ug/L		93
16) Acetone	2.344	43	2224	2.9497	ug/L		78
17) trans-1,2-Dichloroethene	2.423	96	4794	1.0030	ug/L		98
18) Methyl Acetate	2.446	43	2875	1.0289	ug/L	#	87
19) Methyl Tert Butyl Ether	2.533	73	11670	1.0033	ug/L		94
20) 1,1-Dichloroethane	2.981	63	8127	0.9837	ug/L		99
21) Acrylonitrile	3.033	53	1024	0.9854	ug/L		91
23) cis-1,2-Dichloroethene	3.569	96	5531	1.0183	ug/L		95
24) 2,2-Dichloropropane	3.702	77	6786	0.9774	ug/L	#	84
25) Cyclohexane	3.798	56	7611	1.0036	ug/L	#	92
26) Bromochloromethane	3.809	130	3268	0.9569	ug/L		98
27) Chloroform	3.934	83	8528	0.9620	ug/L		97
28) Carbon Tetrachloride	4.084	117	6853	0.9587	ug/L		99
30) 1,1,1-Trichloroethane	4.183	97	7797	0.9794	ug/L		99
31) 1,1-Dichloropropene	4.351	75	6117	0.9652	ug/L		91
32) 2-Butanone	4.374	43	1984	1.6133	ug/L	#	53
33) Benzene	4.655	78	19311	1.0121	ug/L		99
35) 1,2-Dichloroethane	4.895	62	5696	0.9997	ug/L		97
36) Methylcyclohexane	5.303	83	8724	1.0133	ug/L		96
37) Trichloroethene	5.327	130	5786	1.0051	ug/L		100
38) Dibromomethane	5.744	93	2760	0.9791	ug/L		98
39) 1,2-Dichloropropane	5.854	63	4875	0.9999	ug/L		97
40) Bromodichloromethane	5.940	83	6513	0.9889	ug/L		97
42) 2-Chloroethyl Vinyl Ether	6.528	63	2170	0.9797	ug/L		98
43) cis-1,3-Dichloropropene	6.548	75	7131	0.9484	ug/L		99
44) 4-Methyl-2-Pentanone	7.817	58	1164	1.0347	ug/L		91
45) trans-1,3-Dichloropropene	7.148	75	6205	0.9673	ug/L		98
48) Toluene	6.760	91	23845	1.0547	ug/L		99
49) Tetrachloroethene	7.090	166	6047	0.9735	ug/L		99
50) 1,1,2-Trichloroethane	7.278	97	4147	1.0370	ug/L		98
51) Dibromochloromethane	7.417	129	5160	0.9786	ug/L		98

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014372.D
Acq On : 12 Aug 2015 16:30
Operator : ADC
Sample : WG534785-05 1.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 20 16:11:27 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

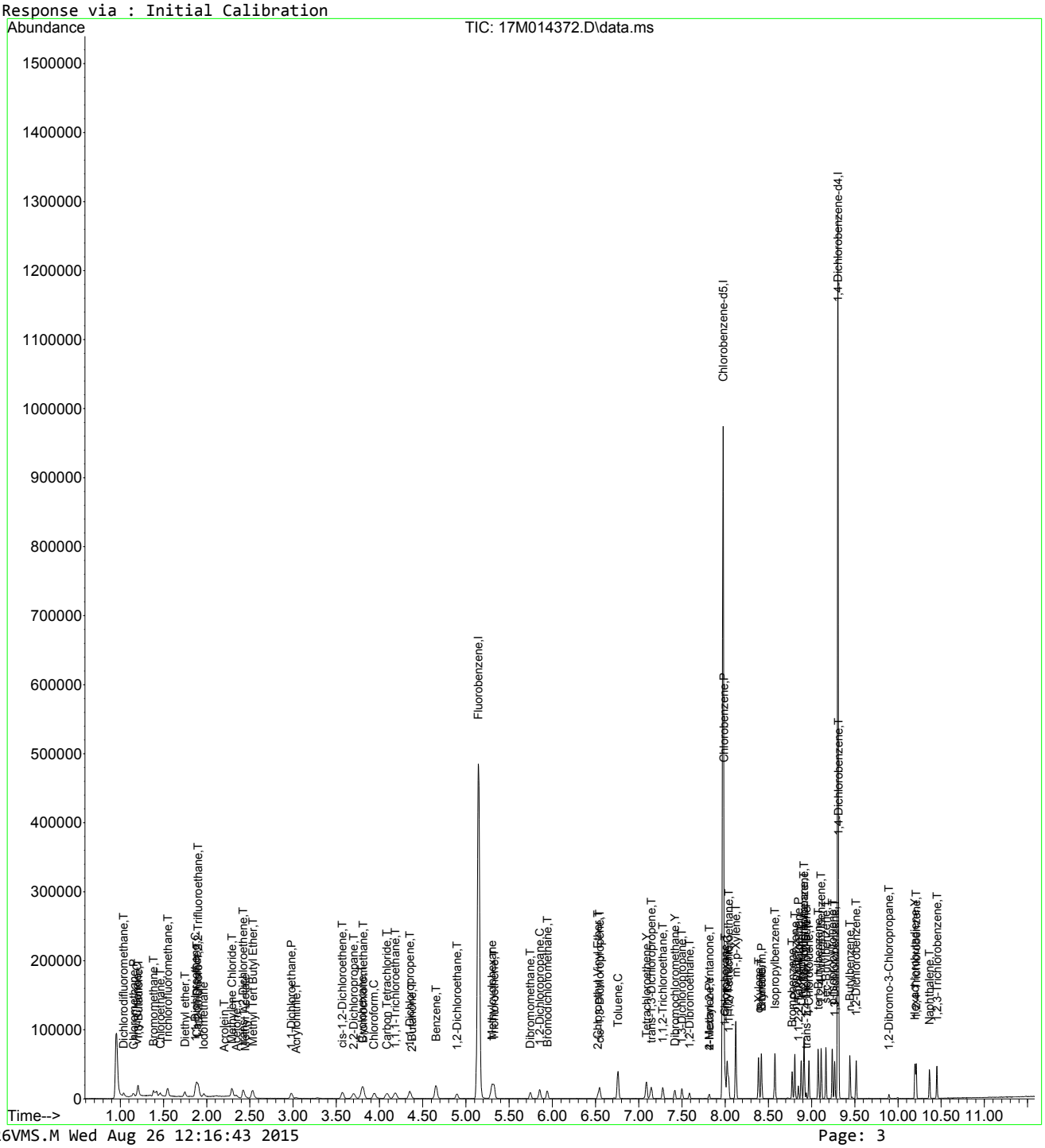
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3-Dichloropropane	7.498	76	6380	1.0259 ug/L	90
53) 1,2-Dibromoethane	7.585	107	3938	0.9738 ug/L	99
54) 2-Hexanone	7.817	43	2508	1.2372 ug/L	87
55) Chlorobenzene	7.984	112	14051	0.9880 ug/L	71
56) 1-Chlorohexane	7.999	69	1281	0.9959 ug/L	95
57) Ethylbenzene	8.025	106	7589	0.9940 ug/L	96
58) 1,1,1,2-Tetrachloroethane	8.040	131	5251	0.9814 ug/L	95
59) m-,p-Xylene	8.123	106	18255	2.0138 ug/L	96
60) o-Xylene	8.387	106	9038	0.9919 ug/L	97
61) Styrene	8.419	104	14446	0.9809 ug/L	99
62) Bromoform	8.422	173	3245	0.9149 ug/L	98
63) Isopropylbenzene	8.575	105	23858	1.0136 ug/L	99
65) 1,3,5-Trimethylbenzene	8.914	105	20384	1.0168 ug/L	100
67) Bromobenzene	8.775	156	6663	0.9801 ug/L	98
68) n-Propylbenzene	8.807	91	25954	1.0176 ug/L	98
69) 1,1,2,2-Tetrachloroethane	8.847	83	4645	1.0212 ug/L	99
70) 2-Chlorotoluene	8.882	91	16491	1.0304 ug/L	98
71) 1,2,3-Trichloropropane	8.911	110	1268	1.0086 ug/L	97
72) trans-1,4-Dichloro-2-b...	8.940	53	876	1.0470 ug/L #	81
73) 1,2,4-Trimethylbenzene	9.111	105	20497	1.0295 ug/L	98
74) 4-Chlorotoluene	8.969	91	15907	0.9920 ug/L	99
75) tert-Butylbenzene	9.079	134	3981	1.0092 ug/L	96
76) sec-Butylbenzene	9.166	105	25180	1.0286 ug/L	99
77) p-Isopropyltoluene	9.241	119	21335	1.0057 ug/L	99
78) 1,3-Dichlorobenzene	9.267	146	11840	1.0080 ug/L	99
79) 1,4-Dichlorobenzene	9.313	146	11669	0.9787 ug/L	96
80) n-Butylbenzene	9.444	91	17179	0.9583 ug/L	98
81) 1,2-Dichlorobenzene	9.516	146	11384	0.9850 ug/L	97
82) 1,2-Dibromo-3-Chloropr...	9.895	75	771	0.9582 ug/L	100
83) Hexachlorobutadiene	10.197	225	5067	0.9779 ug/L	99
84) 1,2,4-Trichlorobenzene	10.211	180	7975	0.9333 ug/L	98
85) Naphthalene	10.364	128	16170	1.0017 ug/L	98
86) 1,2,3-Trichlorobenzene	10.451	180	7741	0.9521 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014372.D
Acq On : 12 Aug 2015 16:30
Operator : ADC
Sample : WG534785-05 1.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 20 16:11:27 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration



826VMS.M Wed Aug 26 12:16:43 2015 Page: 3

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014372.D
Acq On : 12 Aug 2015 16:30
Operator : ADC
Sample : WG534785-05 1.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 20 16:11:27 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
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	0.889	11.1	100	0.000
3	P	Chloromethane	1.000	1.021	-2.1	100	0.000
4	C	Vinyl Chloride	1.000	0.966	3.4#	100	0.000
5	T	1,3-Butadiene	1.000	0.960	4.0	100	0.000
6	T	Bromomethane	1.000	1.154	-15.4	100	0.000
7	T	Chloroethane	1.000	0.380	62.0#	100	0.012
8	T	Trichlorofluoromethane	1.000	0.982	1.8	100	0.000
9	T	Diethyl ether	1.000	0.987	1.3	100	0.000
10	C	1,1-Dichloroethene	1.000	0.983	1.7#	100	0.000
11	T	Carbon Disulfide	1.000	0.967	3.3	100	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	1.000	1.008	-0.8	100	0.000
13	T	Iodomethane	1.000	1.113	-11.3	100	0.000
14	T	Acrolein	-1.000	0.209	0.0	0	0.089
15	T	Methylene Chloride	1.000	1.075	-7.5	100	0.000
16	T	Acetone	-1.000	2.950	0.0	0	0.000
17	T	trans-1,2-Dichloroethene	1.000	1.003	-0.3	100	0.000
18	T	Methyl Acetate	1.000	1.029	-2.9	100	0.000
19	T	Methyl Tert Butyl Ether	1.000	1.003	-0.3	100	0.000
20	P	1,1-Dichloroethane	1.000	0.984	1.6	100	0.000
21	T	Acrylonitrile	-1.000	0.985	0.0	0	0.000
22	T	Vinyl Acetate	-1.000	0.000	0.0	0	-3.279#
23	T	cis-1,2-Dichloroethene	1.000	1.018	-1.8	100	0.000
24	T	2,2-Dichloropropane	1.000	0.977	2.3	100	0.000
25	T	Cyclohexane	1.000	1.004	-0.4	100	0.000
26	T	Bromochloromethane	1.000	0.957	4.3	100	0.000
27	C	Chloroform	1.000	0.962	3.8#	100	0.000
28	T	Carbon Tetrachloride	1.000	0.959	4.1	100	0.000
29	S	Dibromofluoromethane	-1.000	0.000	0.0	0	-4.183#
30	T	1,1,1-Trichloroethane	1.000	0.979	2.1	100	0.000
31	T	1,1-Dichloropropene	1.000	0.965	3.5	100	0.000
32	T	2-Butanone	-1.000	1.613	0.0	0	0.000
33	T	Benzene	1.000	1.012	-1.2	100	0.000
34	S	1,2-Dichloroethane-d4	-1.000	0.000	0.0	0	-4.817#
35	T	1,2-Dichloroethane	1.000	1.000	0.0	100	0.000
36	T	Methylcyclohexane	1.000	1.013	-1.3	100	0.000
37	T	Trichloroethene	1.000	1.005	-0.5	100	0.000
38	T	Dibromomethane	1.000	0.979	2.1	100	0.000
39	C	1,2-Dichloropropane	1.000	1.000	0.0	100	0.000
40	T	Bromodichloromethane	1.000	0.989	1.1	100	0.000
41	T	1,4-Dioxane	-1.000	0.000	0.0	0	-6.152#
42	T	2-Chloroethyl Vinyl Ether	1.000	0.980	2.0	100	0.000
43	T	cis-1,3-Dichloropropene	1.000	0.948	5.2	100	0.000
44	T	4-Methyl-2-Pentanone	-1.000	1.035	0.0	0	0.000
45	T	trans-1,3-Dichloropropene	1.000	0.967	3.3	100	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
47	S	Toluene-d8	-1.000	0.041	0.0	0	0.000
48	C	Toluene	1.000	1.055	-5.5#	100	0.000
49	T	Tetrachloroethene	1.000	0.974	2.6	100	0.000
50	T	1,1,2-Trichloroethane	1.000	1.037	-3.7	100	0.000
51	T	Dibromochloromethane	1.000	0.979	2.1	100	0.000
52	T	1,3-Dichloropropane	1.000	1.026	-2.6	100	0.000
53	T	1,2-Dibromoethane	1.000	0.974	2.6	100	0.000
54	T	2-Hexanone	-1.000	1.237	0.0	0	0.000
55	P	Chlorobenzene	1.000	0.988	1.2	100	0.000

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014372.D
Acq On : 12 Aug 2015 16:30
Operator : ADC
Sample : WG534785-05 1.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 20 16:11:27 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
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	1-Chlorohexane	1.000	0.996	0.4	100	0.000
57	C	Ethylbenzene	1.000	0.994	0.6#	100	0.000
58	T	1,1,1,2-Tetrachloroethane	1.000	0.981	1.9	100	0.000
59	T	m-,p-Xylene	2.000	2.014	-0.7	100	0.000
60	T	o-Xylene	1.000	0.992	0.8	100	0.000
61	T	Styrene	1.000	0.981	1.9	100	0.000
62	P	Bromoform	1.000	0.915	8.5	100	0.000
63	T	Isopropylbenzene	1.000	1.014	-1.4	100	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
65	T	1,3,5-Trimethylbenzene	1.000	1.017	-1.7	100	0.000
66	S	p-Bromofluorobenzene	-1.000	0.048	0.0	0	0.000
67	T	Bromobenzene	1.000	0.980	2.0	100	0.000
68	T	n-Propylbenzene	1.000	1.018	-1.8	100	0.000
69	P	1,1,2,2-Tetrachloroethane	1.000	1.021	-2.1	100	0.000
70	T	2-Chlorotoluene	1.000	1.030	-3.0	100	0.000
71	T	1,2,3-Trichloropropane	1.000	1.009	-0.9	100	0.000
72	T	trans-1,4-Dichloro-2-butene	1.000	1.047	-4.7	100	0.000
73	T	1,2,4-Trimethylbenzene	1.000	1.030	-3.0	100	0.000
74	T	4-Chlorotoluene	1.000	0.992	0.8	100	0.000
75	T	tert-Butylbenzene	1.000	1.009	-0.9	100	0.000
76	T	sec-Butylbenzene	1.000	1.029	-2.9	100	0.000
77	T	p-Isopropyltoluene	1.000	1.006	-0.6	100	0.000
78	T	1,3-Dichlorobenzene	1.000	1.008	-0.8	100	0.000
79	T	1,4-Dichlorobenzene	1.000	0.979	2.1	100	0.000
80	T	n-Butylbenzene	1.000	0.958	4.2	100	0.000
81	T	1,2-Dichlorobenzene	1.000	0.985	1.5	100	0.000
82	T	1,2-Dibromo-3-Chloropropane	-1.000	0.958	0.0	0	0.000
83	T	Hexachlorobutadiene	1.000	0.978	2.2	100	0.000
84	T	1,2,4-Trichlorobenzene	1.000	0.933	6.7	100	0.000
85	T	Naphthalene	1.000	1.002	-0.2	100	0.000
86	T	1,2,3-Trichlorobenzene	1.000	0.952	4.8	100	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 5

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014373.D
Acq On : 12 Aug 2015 16:50
Operator : ADC
Sample : WG534785-06 2.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 20 16:11:29 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.147	96	441316	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.976	117	326944	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.305	152	171905	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	0.000	111	0	0.0000	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.000%#		
34) 1,2-Dichloroethane-d4	4.892	65	341	0.0827	ug/L	0.0751
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.331%#		
47) Toluene-d8	6.716	98	553	0.0330	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.132%#		
66) p-Bromofluorobenzene	8.726	95	261	0.0439	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.176%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.038	85	10024	1.8014	ug/L	96
3) Chloromethane	1.151	50	8946	1.9899	ug/L	99
4) Vinyl Chloride	1.195	62	9917	1.9032	ug/L	88
5) 1,3-Butadiene	1.206	54	7861	1.9431	ug/L	95
6) Bromomethane	1.383	94	6146	2.1413	ug/L	100
7) Chloroethane	1.458	64	7742	2.2131	ug/L	84
8) Trichlorofluoromethane	1.548	101	14976	1.9470	ug/L	98
9) Diethyl ether	1.745	59	6660	2.0337	ug/L	99
10) 1,1-Dichloroethene	1.872	61	12993	1.9741	ug/L	98
11) Carbon Disulfide	1.887	76	30040	2.0851	ug/L	98
12) 1,1,2-Trichloro-1,2,2-...	1.904	101	9095	1.9536	ug/L	99
13) Iodomethane	1.968	142	8677	1.7598	ug/L	100
14) Acrolein	2.113	56	1647	3.1340	ug/L	93
15) Methylene Chloride	2.295	84	9965	2.0047	ug/L	97
16) Acetone	2.344	43	2156	2.8951	ug/L	89
17) trans-1,2-Dichloroethene	2.419	96	9295	1.9689	ug/L	94
18) Methyl Acetate	2.451	43	5075	1.8389	ug/L #	92
19) Methyl Tert Butyl Ether	2.530	73	23249	2.0237	ug/L	96
20) 1,1-Dichloroethane	2.981	63	15947	1.9543	ug/L	99
21) Acrylonitrile	3.036	53	2073	2.0197	ug/L	92
22) Vinyl Acetate	3.282	86	216	0.7419	ug/L #	1
23) cis-1,2-Dichloroethene	3.572	96	10720	1.9983	ug/L	98
24) 2,2-Dichloropropane	3.699	77	12959	1.8898	ug/L #	85
25) Cyclohexane	3.801	56	14732	1.9668	ug/L	96
26) Bromochloromethane	3.812	130	6534	1.9371	ug/L	98
27) Chloroform	3.940	83	16884	1.9282	ug/L	98
28) Carbon Tetrachloride	4.087	117	13495	1.9114	ug/L	99
30) 1,1,1-Trichloroethane	4.183	97	15483	1.9690	ug/L	98
31) 1,1-Dichloropropene	4.348	75	12138	1.9391	ug/L	96
32) 2-Butanone	4.374	43	3188	2.6246	ug/L #	75
33) Benzene	4.652	78	37398	1.9844	ug/L	100
35) 1,2-Dichloroethane	4.895	62	11224	1.9944	ug/L	98
36) Methylcyclohexane	5.300	83	16347	1.9224	ug/L	96
37) Trichloroethene	5.329	130	10957	1.9270	ug/L	98
38) Dibromomethane	5.743	93	5374	1.9301	ug/L	96
39) 1,2-Dichloropropane	5.853	63	9659	2.0058	ug/L	99
40) Bromodichloromethane	5.937	83	12609	1.9384	ug/L	97
42) 2-Chloroethyl Vinyl Ether	6.531	63	4533	2.0721	ug/L	100
43) cis-1,3-Dichloropropene	6.548	75	14098	1.8984	ug/L	99
44) 4-Methyl-2-Pentanone	7.816	58	2332	2.0987	ug/L	97
45) trans-1,3-Dichloropropene	7.145	75	12379	1.9539	ug/L	99
48) Toluene	6.760	91	45037	2.0148	ug/L	100
49) Tetrachloroethene	7.090	166	11946	1.9452	ug/L	99
50) 1,1,2-Trichloroethane	7.278	97	8074	2.0420	ug/L	99

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014373.D
Acq On : 12 Aug 2015 16:50
Operator : ADC
Sample : WG534785-06 2.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 20 16:11:29 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

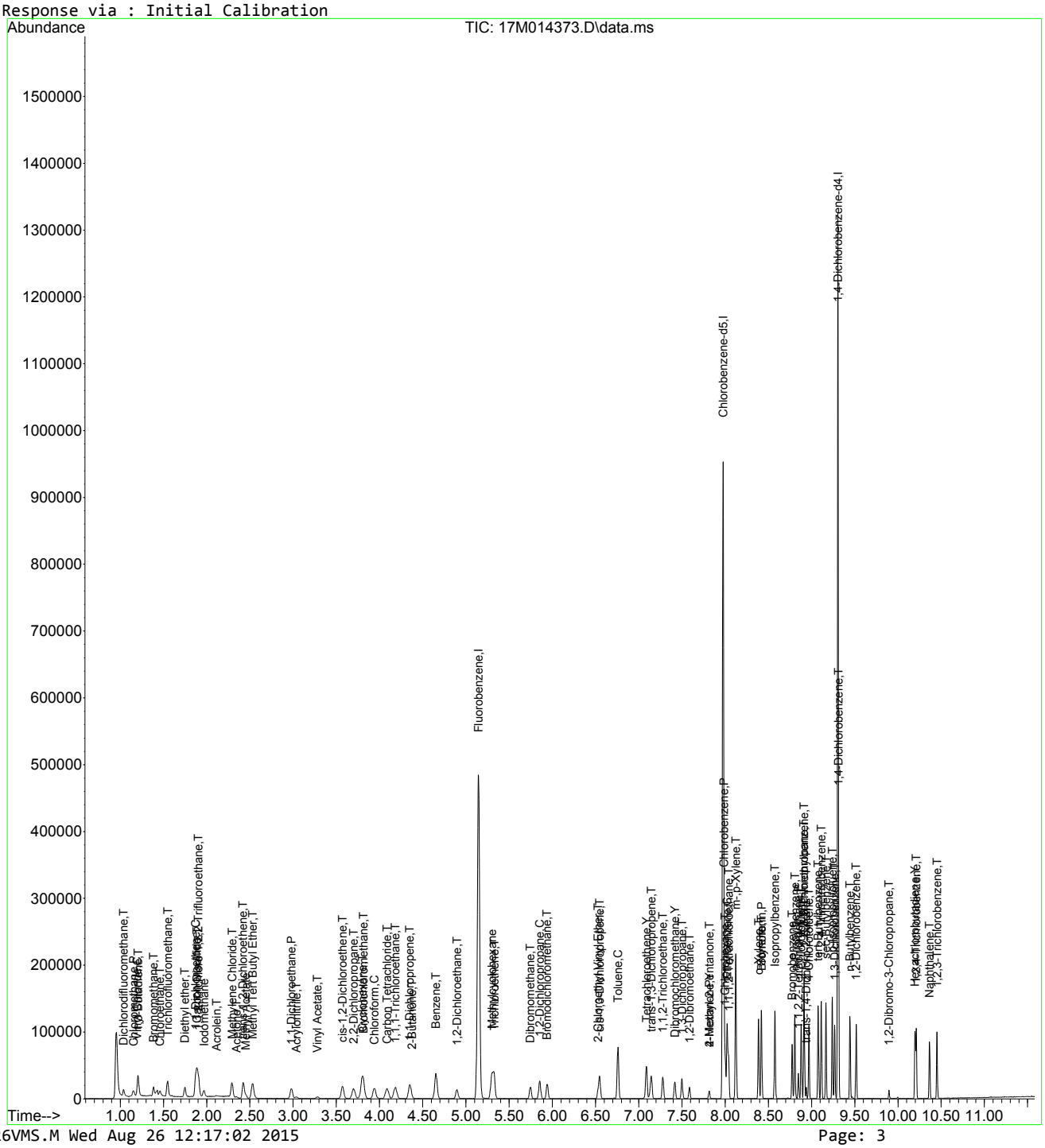
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) Dibromochloromethane	7.417	129	10013	1.9208	ug/L		99
52) 1,3-Dichloropropane	7.501	76	12462	2.0268	ug/L		93
53) 1,2-Dibromoethane	7.585	107	8287	2.0726	ug/L		98
54) 2-Hexanone	7.816	43	4510	2.2503	ug/L		94
55) Chlorobenzene	7.987	112	27989	1.9907	ug/L		86
56) 1-Chlorohexane	7.999	69	2434	1.9139	ug/L		87
57) Ethylbenzene	8.022	106	15143	2.0060	ug/L		99
58) 1,1,1,2-Tetrachloroethane	8.039	131	10601	2.0039	ug/L		98
59) m-,p-Xylene	8.123	106	35942	4.0103	ug/L		96
60) o-Xylene	8.387	106	18105	2.0097	ug/L		99
61) Styrene	8.419	104	29234	2.0078	ug/L		99
62) Bromoform	8.422	173	6776	1.9324	ug/L		98
63) Isopropylbenzene	8.575	105	47372	2.0355	ug/L		99
65) 1,3,5-Trimethylbenzene	8.914	105	40976	2.0290	ug/L		99
67) Bromobenzene	8.775	156	13087	1.9109	ug/L		100
68) n-Propylbenzene	8.807	91	52054	2.0258	ug/L		98
69) 1,1,2,2-Tetrachloroethane	8.847	83	9221	2.0122	ug/L		99
70) 2-Chlorotoluene	8.879	91	32548	2.0187	ug/L		99
71) 1,2,3-Trichloropropane	8.911	110	2652	2.0940	ug/L		98
72) trans-1,4-Dichloro-2-b...	8.937	53	1593	1.8899	ug/L	#	91
73) 1,2,4-Trimethylbenzene	9.114	105	40627	2.0256	ug/L		100
74) 4-Chlorotoluene	8.969	91	32330	2.0014	ug/L		97
75) tert-Butylbenzene	9.076	134	8007	2.0149	ug/L		100
76) sec-Butylbenzene	9.166	105	50034	2.0289	ug/L		99
77) p-Isopropyltoluene	9.241	119	42899	2.0072	ug/L		100
78) 1,3-Dichlorobenzene	9.267	146	23318	1.9706	ug/L		99
79) 1,4-Dichlorobenzene	9.313	146	23101	1.9232	ug/L		97
80) n-Butylbenzene	9.444	91	34418	1.9059	ug/L		98
81) 1,2-Dichlorobenzene	9.516	146	22804	1.9587	ug/L		98
82) 1,2-Dibromo-3-Chloropr...	9.895	75	1523	1.8789	ug/L		98
83) Hexachlorobutadiene	10.196	225	10146	1.9437	ug/L		99
84) 1,2,4-Trichlorobenzene	10.211	180	16175	1.8789	ug/L		98
85) Naphthalene	10.364	128	33015	2.0302	ug/L		99
86) 1,2,3-Trichlorobenzene	10.451	180	15905	1.9418	ug/L		100

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014373.D
Acq On : 12 Aug 2015 16:50
Operator : ADC
Sample : WG534785-06 2.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 20 16:11:29 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration



826VMS.M Wed Aug 26 12:17:02 2015 Page: 3

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014373.D
Acq On : 12 Aug 2015 16:50
Operator : ADC
Sample : WG534785-06 2.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 20 16:11:29 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
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	1.801	10.0	100	0.000
3	P	Chloromethane	2.000	1.990	0.5	100	0.000
4	C	Vinyl Chloride	2.000	1.903	4.8#	100	0.000
5	T	1,3-Butadiene	2.000	1.943	2.8	100	0.000
6	T	Bromomethane	2.000	2.141	-7.1	100	0.000
7	T	Chloroethane	2.000	2.213	-10.7	100	0.000
8	T	Trichlorofluoromethane	2.000	1.947	2.6	100	0.000
9	T	Diethyl ether	2.000	2.034	-1.7	100	0.000
10	C	1,1-Dichloroethene	2.000	1.974	1.3#	100	0.000
11	T	Carbon Disulfide	2.000	2.085	-4.2	100	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	2.000	1.954	2.3	100	0.000
13	T	Iodomethane	2.000	1.760	12.0	100	0.000
14	T	Acrolein	-1.000	3.134	0.0	0	0.000
15	T	Methylene Chloride	2.000	2.005	-0.2	100	0.000
16	T	Acetone	-1.000	2.895	0.0	0	0.000
17	T	trans-1,2-Dichloroethene	2.000	1.969	1.5	100	0.000
18	T	Methyl Acetate	2.000	1.839	8.1	100	0.000
19	T	Methyl Tert Butyl Ether	2.000	2.024	-1.2	100	0.000
20	P	1,1-Dichloroethane	2.000	1.954	2.3	100	0.000
21	T	Acrylonitrile	2.000	2.020	-1.0	100	0.000
22	T	Vinyl Acetate	-1.000	0.742	0.0	0	0.000
23	T	cis-1,2-Dichloroethene	2.000	1.998	0.1	100	0.000
24	T	2,2-Dichloropropane	2.000	1.890	5.5	100	0.000
25	T	Cyclohexane	2.000	1.967	1.6	100	0.000
26	T	Bromochloromethane	2.000	1.937	3.1	100	0.000
27	C	Chloroform	2.000	1.928	3.6#	100	0.000
28	T	Carbon Tetrachloride	2.000	1.911	4.4	100	0.000
29	S	Dibromofluoromethane	-1.000	0.000	0.0	0	-4.183#
30	T	1,1,1-Trichloroethane	2.000	1.969	1.5	100	0.000
31	T	1,1-Dichloropropene	2.000	1.939	3.0	100	0.000
32	T	2-Butanone	-1.000	2.625	0.0	0	0.000
33	T	Benzene	2.000	1.984	0.8	100	0.000
34	S	1,2-Dichloroethane-d4	-1.000	0.083	0.0	0	0.075
35	T	1,2-Dichloroethane	2.000	1.994	0.3	100	0.000
36	T	Methylcyclohexane	2.000	1.922	3.9	100	0.000
37	T	Trichloroethene	2.000	1.927	3.6	100	0.000
38	T	Dibromomethane	2.000	1.930	3.5	100	0.000
39	C	1,2-Dichloropropane	2.000	2.006	-0.3#	100	0.000
40	T	Bromodichloromethane	2.000	1.938	3.1	100	0.000
41	T	1,4-Dioxane	-1.000	0.000	0.0	0	-6.152#
42	T	2-Chloroethyl Vinyl Ether	2.000	2.072	-3.6	100	0.000
43	T	cis-1,3-Dichloropropene	2.000	1.898	5.1	100	0.000
44	T	4-Methyl-2-Pentanone	-1.000	2.099	0.0	0	0.000
45	T	trans-1,3-Dichloropropene	2.000	1.954	2.3	100	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
47	S	Toluene-d8	-1.000	0.033	0.0	0	0.000
48	C	Toluene	2.000	2.015	-0.8#	100	0.000
49	T	Tetrachloroethene	2.000	1.945	2.7	100	0.000
50	T	1,1,2-Trichloroethane	2.000	2.042	-2.1	100	0.000
51	T	Dibromochloromethane	2.000	1.921	3.9	100	0.000
52	T	1,3-Dichloropropane	2.000	2.027	-1.4	100	0.000
53	T	1,2-Dibromoethane	2.000	2.073	-3.6	100	0.000
54	T	2-Hexanone	2.000	2.250	-12.5	100	0.000
55	P	Chlorobenzene	2.000	1.991	0.4	100	0.000

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014373.D
Acq On : 12 Aug 2015 16:50
Operator : ADC
Sample : WG534785-06 2.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 20 16:11:29 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
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	1-Chlorohexane	2.000	1.914	4.3	100	0.000
57	C	Ethylbenzene	2.000	2.006	-0.3#	100	0.000
58	T	1,1,1,2-Tetrachloroethane	2.000	2.004	-0.2	100	0.000
59	T	m-,p-Xylene	4.000	4.010	-0.2	100	0.000
60	T	o-Xylene	2.000	2.010	-0.5	100	0.000
61	T	Styrene	2.000	2.008	-0.4	100	0.000
62	P	Bromoform	2.000	1.932	3.4	100	0.000
63	T	Isopropylbenzene	2.000	2.036	-1.8	100	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
65	T	1,3,5-Trimethylbenzene	2.000	2.029	-1.4	100	0.000
66	S	p-Bromofluorobenzene	-1.000	0.044	0.0	0	0.000
67	T	Bromobenzene	2.000	1.911	4.4	100	0.000
68	T	n-Propylbenzene	2.000	2.026	-1.3	100	0.000
69	P	1,1,2,2-Tetrachloroethane	2.000	2.012	-0.6	100	0.000
70	T	2-Chlorotoluene	2.000	2.019	-1.0	100	0.000
71	T	1,2,3-Trichloropropane	2.000	2.094	-4.7	100	0.000
72	T	trans-1,4-Dichloro-2-butene	2.000	1.890	5.5	100	0.000
73	T	1,2,4-Trimethylbenzene	2.000	2.026	-1.3	100	0.000
74	T	4-Chlorotoluene	2.000	2.001	-0.0	100	0.000
75	T	tert-Butylbenzene	2.000	2.015	-0.8	100	0.000
76	T	sec-Butylbenzene	2.000	2.029	-1.4	100	0.000
77	T	p-Isopropyltoluene	2.000	2.007	-0.4	100	0.000
78	T	1,3-Dichlorobenzene	2.000	1.971	1.4	100	0.000
79	T	1,4-Dichlorobenzene	2.000	1.923	3.8	100	0.000
80	T	n-Butylbenzene	2.000	1.906	4.7	100	0.000
81	T	1,2-Dichlorobenzene	2.000	1.959	2.0	100	0.000
82	T	1,2-Dibromo-3-Chloropropane	2.000	1.879	6.0	100	0.000
83	T	Hexachlorobutadiene	2.000	1.944	2.8	100	0.000
84	T	1,2,4-Trichlorobenzene	2.000	1.879	6.0	100	0.000
85	T	Naphthalene	2.000	2.030	-1.5	100	0.000
86	T	1,2,3-Trichlorobenzene	2.000	1.942	2.9	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\081215\
Data File : 17M014374.D
Acq On : 12 Aug 2015 17:10
Operator : ADC
Sample : WG534785-07 5.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 26 12:17:27 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	435281	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.976	117	320357	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.305	152	166178	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.180	111	22282	4.9929	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 19.972%#			
34) 1,2-Dichloroethane-d4	4.817	65	21285	5.2360	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 20.944%#			
47) Toluene-d8	6.713	98	85971	5.2328	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 20.931%#			
66) p-Bromofluorobenzene	8.726	95	29461	5.1218	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 20.487%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.038	85	23572	4.2947	ug/L	99
3) Chloromethane	1.149	50	21052	4.7476	ug/L	100
4) Vinyl Chloride	1.198	62	24177	4.7041	ug/L	97
5) 1,3-Butadiene	1.206	54	18387	4.6079	ug/L	97
6) Bromomethane	1.383	94	13004	4.5936	ug/L	99
7) Chloroethane	1.455	64	19182	6.9476	ug/L	93
8) Trichlorofluoromethane	1.542	101	36852	4.8575	ug/L	100
9) Diethyl ether	1.748	59	16178	5.0086	ug/L	99
10) 1,1-Dichloroethene	1.869	61	30956	4.7684	ug/L	98
11) Carbon Disulfide	1.884	76	66642	4.6897	ug/L	99
12) 1,1,2-Trichloro-1,2,2-...	1.901	101	21915	4.7727	ug/L	98
13) Iodomethane	1.965	142	31839	4.5925	ug/L	100
14) Acrolein	2.113	56	3136	6.0501	ug/L #	57
15) Methylene Chloride	2.289	84	23335	4.7596	ug/L	98
16) Acetone	2.341	43	4161	5.6649	ug/L	97
17) trans-1,2-Dichloroethene	2.420	96	22197	4.7671	ug/L	98
18) Methyl Acetate	2.449	43	12517	4.5984	ug/L #	99
19) Methyl Tert Butyl Ether	2.532	73	55850	4.9289	ug/L	100
20) 1,1-Dichloroethane	2.975	63	39186	4.8689	ug/L	100
21) Acrylonitrile	3.033	53	5146	5.0832	ug/L	97
22) Vinyl Acetate	3.285	86	1081	3.7644	ug/L #	64
23) cis-1,2-Dichloroethene	3.572	96	25256	4.7731	ug/L	100
24) 2,2-Dichloropropane	3.699	77	31532	4.6620	ug/L	94
25) Cyclohexane	3.801	56	35604	4.8193	ug/L	98
26) Bromochloromethane	3.809	130	16178	4.8626	ug/L	100
27) Chloroform	3.940	83	41021	4.7498	ug/L	99
28) Carbon Tetrachloride	4.087	117	33375	4.7927	ug/L	99
30) 1,1,1-Trichloroethane	4.180	97	37220	4.7991	ug/L	99
31) 1,1-Dichloropropene	4.348	75	29506	4.7791	ug/L	98
32) 2-Butanone	4.371	43	6763	5.6449	ug/L #	56
33) Benzene	4.652	78	90557	4.8717	ug/L	100
35) 1,2-Dichloroethane	4.892	62	27515	4.9569	ug/L	99
36) Methylcyclohexane	5.300	83	39585	4.7196	ug/L	98
37) Trichloroethene	5.326	130	26977	4.8102	ug/L	99
38) Dibromomethane	5.746	93	13589	4.9483	ug/L	99
39) 1,2-Dichloropropane	5.853	63	23054	4.8537	ug/L	100
40) Bromodichloromethane	5.940	83	30613	4.7714	ug/L	99
41) 1,4-Dioxane	6.155	88	258	7.1230	ug/L	75
42) 2-Chloroethyl Vinyl Ether	6.531	63	10889	5.0465	ug/L	100
43) cis-1,3-Dichloropropene	6.545	75	34825	4.7545	ug/L	99
44) 4-Methyl-2-Pentanone	7.816	58	5549	5.0632	ug/L	98
45) trans-1,3-Dichloropropene	7.145	75	29803	4.7692	ug/L	100
48) Toluene	6.760	91	106060	4.8422	ug/L	100
49) Tetrachloroethene	7.090	166	29101	4.8360	ug/L	99

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014374.D
Acq On : 12 Aug 2015 17:10
Operator : ADC
Sample : WG534785-07 5.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 26 12:17:27 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

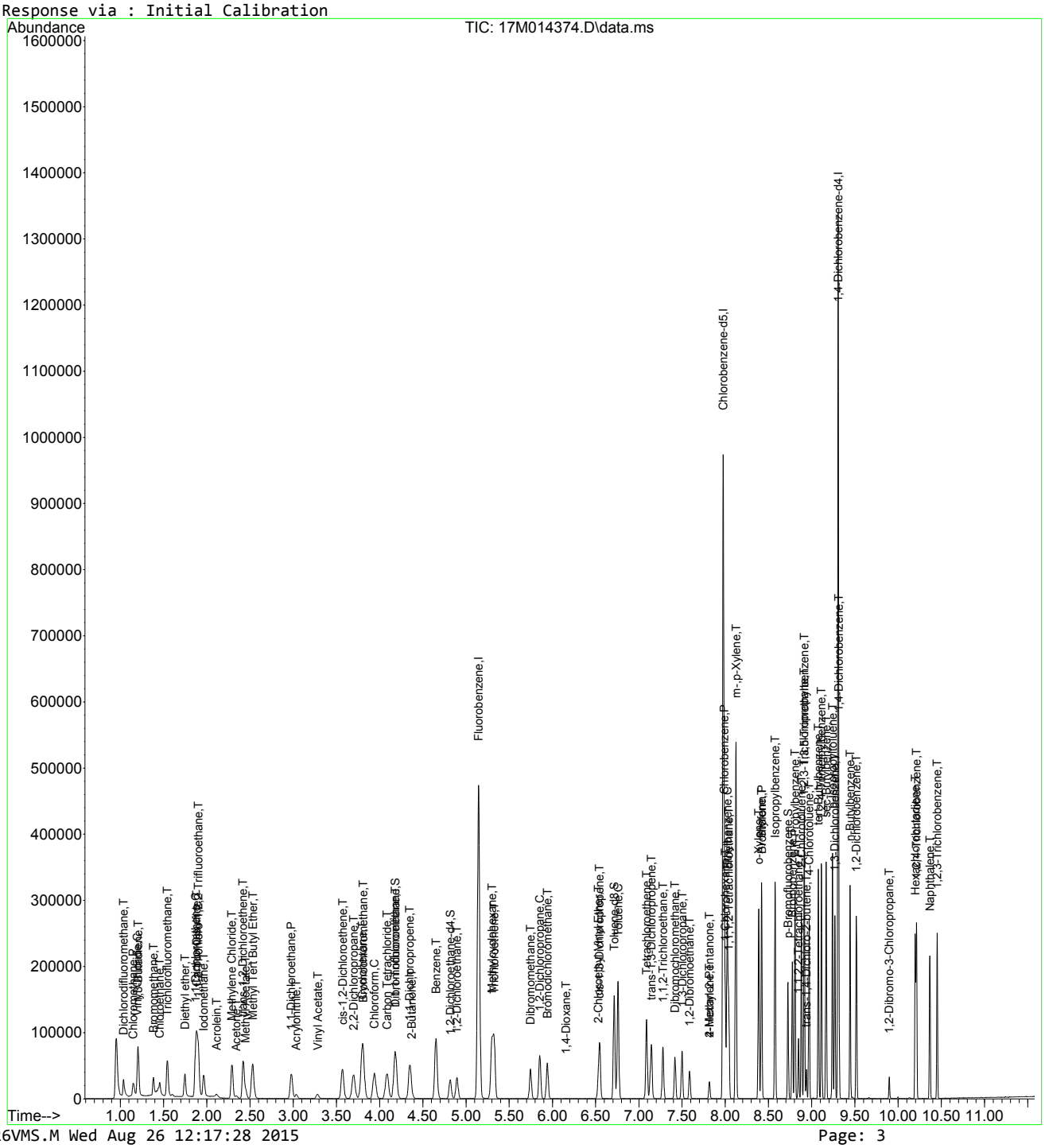
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,1,2-Trichloroethane	7.278	97	19434	5.0161	ug/L		100
51) Dibromochloromethane	7.417	129	24677	4.8311	ug/L		99
52) 1,3-Dichloropropane	7.501	76	30051	4.9880	ug/L		98
53) 1,2-Dibromoethane	7.588	107	19529	4.9848	ug/L		99
54) 2-Hexanone	7.816	43	10181	5.1843	ug/L		98
55) Chlorobenzene	7.987	112	67980	4.9344	ug/L		95
56) 1-Chlorohexane	7.999	69	5693	4.5684	ug/L		75
57) Ethylbenzene	8.022	106	36368	4.9168	ug/L		97
58) 1,1,1,2-Tetrachloroethane	8.039	131	25708	4.9595	ug/L		98
59) m-,p-Xylene	8.123	106	89089	10.1448	ug/L		98
60) o-Xylene	8.387	106	44055	4.9909	ug/L		99
61) Styrene	8.419	104	71129	4.9856	ug/L		100
62) Bromoform	8.422	173	16700	4.8604	ug/L		99
63) Isopropylbenzene	8.575	105	115995	5.0867	ug/L		100
65) 1,3,5-Trimethylbenzene	8.914	105	100957	5.1714	ug/L		99
67) Bromobenzene	8.775	156	32156	4.8570	ug/L		100
68) n-Propylbenzene	8.807	91	127778	5.1442	ug/L		99
69) 1,1,2,2-Tetrachloroethane	8.847	83	22699	5.1242	ug/L		100
70) 2-Chlorotoluene	8.879	91	79273	5.0861	ug/L		100
71) 1,2,3-Trichloropropane	8.911	110	6319	5.1615	ug/L		98
72) trans-1,4-Dichloro-2-b...	8.937	53	4122	5.0588	ug/L	#	90
73) 1,2,4-Trimethylbenzene	9.111	105	99765	5.1455	ug/L		99
74) 4-Chlorotoluene	8.969	91	79406	5.0852	ug/L		98
75) tert-Butylbenzene	9.076	134	19312	5.0271	ug/L		99
76) sec-Butylbenzene	9.166	105	124118	5.2064	ug/L		99
77) p-Isopropyltoluene	9.241	119	107130	5.1853	ug/L		100
78) 1,3-Dichlorobenzene	9.267	146	57715	5.0455	ug/L		99
79) 1,4-Dichlorobenzene	9.313	146	56211	4.8410	ug/L		100
80) n-Butylbenzene	9.444	91	87227	4.9967	ug/L		98
81) 1,2-Dichlorobenzene	9.516	146	55760	4.9543	ug/L		99
82) 1,2-Dibromo-3-Chloropr...	9.895	75	3937	5.0244	ug/L		98
83) Hexachlorobutadiene	10.199	225	25349	5.0237	ug/L		99
84) 1,2,4-Trichlorobenzene	10.211	180	41513	4.9885	ug/L		99
85) Naphthalene	10.367	128	81544	5.1873	ug/L		100
86) 1,2,3-Trichlorobenzene	10.451	180	40052	5.0583	ug/L		100

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014374.D
Acq On : 12 Aug 2015 17:10
Operator : ADC
Sample : WG534785-07 5.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 26 12:17:27 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration



826VMS.M Wed Aug 26 12:17:28 2015 Page: 3

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014374.D
Acq On : 12 Aug 2015 17:10
Operator : ADC
Sample : WG534785-07 5.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 20 16:11:31 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
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	4.295	14.1	100	0.000
3	P	Chloromethane	5.000	4.748	5.0	100	0.000
4	C	Vinyl Chloride	5.000	4.704	5.9#	100	0.000
5	T	1,3-Butadiene	5.000	4.608	7.8	100	0.000
6	T	Bromomethane	5.000	4.594	8.1	100	0.000
7	T	Chloroethane	5.000	6.948	-39.0#	100	0.000
8	T	Trichlorofluoromethane	5.000	4.858	2.8	100	0.000
9	T	Diethyl ether	5.000	5.009	-0.2	100	0.000
10	C	1,1-Dichloroethene	5.000	4.768	4.6#	100	0.000
11	T	Carbon Disulfide	5.000	4.690	6.2	100	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	5.000	4.773	4.5	100	0.000
13	T	Iodomethane	5.000	4.593	8.1	100	0.000
14	T	Acrolein	5.000	6.050	-21.0	100	0.000
15	T	Methylene Chloride	5.000	4.760	4.8	100	0.000
16	T	Acetone	5.000	5.665	-13.3	100	0.000
17	T	trans-1,2-Dichloroethene	5.000	4.767	4.7	100	0.000
18	T	Methyl Acetate	5.000	4.598	8.0	100	0.000
19	T	Methyl Tert Butyl Ether	5.000	4.929	1.4	100	0.000
20	P	1,1-Dichloroethane	5.000	4.869	2.6	100	0.000
21	T	Acrylonitrile	5.000	5.083	-1.7	100	0.000
22	T	Vinyl Acetate	5.000	3.764	24.7	100	0.000
23	T	cis-1,2-Dichloroethene	5.000	4.773	4.5	100	0.000
24	T	2,2-Dichloropropane	5.000	4.662	6.8	100	0.000
25	T	Cyclohexane	5.000	4.819	3.6	100	0.000
26	T	Bromochloromethane	5.000	4.863	2.7	100	0.000
27	C	Chloroform	5.000	4.750	5.0#	100	0.000
28	T	Carbon Tetrachloride	5.000	4.793	4.1	100	0.000
29	S	Dibromofluoromethane	5.000	4.993	0.1	100	0.000
30	T	1,1,1-Trichloroethane	5.000	4.799	4.0	100	0.000
31	T	1,1-Dichloropropene	5.000	4.779	4.4	100	0.000
32	T	2-Butanone	5.000	5.645	-12.9	100	0.000
33	T	Benzene	5.000	4.872	2.6	100	0.000
34	S	1,2-Dichloroethane-d4	5.000	5.236	-4.7	100	0.000
35	T	1,2-Dichloroethane	5.000	4.957	0.9	100	0.000
36	T	Methylcyclohexane	5.000	4.720	5.6	100	0.000
37	T	Trichloroethene	5.000	4.810	3.8	100	0.000
38	T	Dibromomethane	5.000	4.948	1.0	100	0.000
39	C	1,2-Dichloropropane	5.000	4.854	2.9#	100	0.000
40	T	Bromodichloromethane	5.000	4.771	4.6	100	0.000
41	T	1,4-Dioxane	-1.000	7.123	0.0	0	0.000
42	T	2-Chloroethyl Vinyl Ether	5.000	5.046	-0.9	100	0.000
43	T	cis-1,3-Dichloropropene	5.000	4.755	4.9	100	0.000
44	T	4-Methyl-2-Pentanone	5.000	5.063	-1.3	100	0.000
45	T	trans-1,3-Dichloropropene	5.000	4.769	4.6	100	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
47	S	Toluene-d8	5.000	5.233	-4.7	100	0.000
48	C	Toluene	5.000	4.842	3.2#	100	0.000
49	T	Tetrachloroethene	5.000	4.836	3.3	100	0.000
50	T	1,1,2-Trichloroethane	5.000	5.016	-0.3	100	0.000
51	T	Dibromochloromethane	5.000	4.831	3.4	100	0.000
52	T	1,3-Dichloropropane	5.000	4.988	0.2	100	0.000
53	T	1,2-Dibromoethane	5.000	4.985	0.3	100	0.000
54	T	2-Hexanone	5.000	5.184	-3.7	100	0.000
55	P	Chlorobenzene	5.000	4.934	1.3	100	0.000

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014374.D
Acq On : 12 Aug 2015 17:10
Operator : ADC
Sample : WG534785-07 5.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 20 16:11:31 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
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	1-Chlorohexane	5.000	4.568	8.6	100	0.000
57	C	Ethylbenzene	5.000	4.917	1.7#	100	0.000
58	T	1,1,1,2-Tetrachloroethane	5.000	4.959	0.8	100	0.000
59	T	m-,p-Xylene	10.000	10.145	-1.4	100	0.000
60	T	o-Xylene	5.000	4.991	0.2	100	0.000
61	T	Styrene	5.000	4.986	0.3	100	0.000
62	P	Bromoform	5.000	4.860	2.8	100	0.000
63	T	Isopropylbenzene	5.000	5.087	-1.7	100	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
65	T	1,3,5-Trimethylbenzene	5.000	5.171	-3.4	100	0.000
66	S	p-Bromofluorobenzene	5.000	5.122	-2.4	100	0.000
67	T	Bromobenzene	5.000	4.857	2.9	100	0.000
68	T	n-Propylbenzene	5.000	5.144	-2.9	100	0.000
69	P	1,1,2,2-Tetrachloroethane	5.000	5.124	-2.5	100	0.000
70	T	2-Chlorotoluene	5.000	5.086	-1.7	100	0.000
71	T	1,2,3-Trichloropropane	5.000	5.162	-3.2	100	0.000
72	T	trans-1,4-Dichloro-2-butene	5.000	5.059	-1.2	100	0.000
73	T	1,2,4-Trimethylbenzene	5.000	5.145	-2.9	100	0.000
74	T	4-Chlorotoluene	5.000	5.085	-1.7	100	0.000
75	T	tert-Butylbenzene	5.000	5.027	-0.5	100	0.000
76	T	sec-Butylbenzene	5.000	5.206	-4.1	100	0.000
77	T	p-Isopropyltoluene	5.000	5.185	-3.7	100	0.000
78	T	1,3-Dichlorobenzene	5.000	5.045	-0.9	100	0.000
79	T	1,4-Dichlorobenzene	5.000	4.841	3.2	100	0.000
80	T	n-Butylbenzene	5.000	4.997	0.1	100	0.000
81	T	1,2-Dichlorobenzene	5.000	4.954	0.9	100	0.000
82	T	1,2-Dibromo-3-Chloropropane	5.000	5.024	-0.5	100	0.000
83	T	Hexachlorobutadiene	5.000	5.024	-0.5	100	0.000
84	T	1,2,4-Trichlorobenzene	5.000	4.988	0.2	100	0.000
85	T	Naphthalene	5.000	5.187	-3.7	100	0.000
86	T	1,2,3-Trichlorobenzene	5.000	5.058	-1.2	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\081215\
Data File : 17M014375.D
Acq On : 12 Aug 2015 17:30
Operator : ADC
Sample : WG534785-08 20.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 12:17:30 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	434557	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.976	117	326821	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.305	152	174850	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.183	111	42798	9.6061	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 38.424%#			
34) 1,2-Dichloroethane-d4	4.817	65	39091	9.6323	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 38.529%#			
47) Toluene-d8	6.713	98	161040	9.6081	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 38.432%#			
66) p-Bromofluorobenzene	8.726	95	55599	9.1865	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 36.746%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.038	85	115063	20.9989	ug/L	100
3) Chloromethane	1.151	50	86735	19.5928	ug/L	100
4) Vinyl Chloride	1.198	62	102754	20.0261	ug/L	99
5) 1,3-Butadiene	1.206	54	78104	19.6058	ug/L	99
6) Bromomethane	1.383	94	49086	17.3681	ug/L	99
7) Chloroethane	1.455	64	61447	24.6868	ug/L	98
8) Trichlorofluoromethane	1.545	101	154455	20.3930	ug/L	100
9) Diethyl ether	1.745	59	62934	19.5163	ug/L	99
10) 1,1-Dichloroethene	1.872	61	128605	19.8432	ug/L	99
11) Carbon Disulfide	1.884	76	274142	19.3241	ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.901	101	91974	20.0637	ug/L	100
13) Iodomethane	1.965	142	165088	20.8395	ug/L	100
14) Acrolein	2.113	56	10075	19.4696	ug/L	96
15) Methylene Chloride	2.292	84	94027	19.2105	ug/L	99
16) Acetone	2.341	43	15340	20.9189	ug/L	98
17) trans-1,2-Dichloroethene	2.422	96	90707	19.5131	ug/L	100
18) Methyl Acetate	2.448	43	50789	18.6895	ug/L #	94
19) Methyl Tert Butyl Ether	2.530	73	224891	19.8801	ug/L	100
20) 1,1-Dichloroethane	2.978	63	158802	19.7643	ug/L	100
21) Acrylonitrile	3.036	53	20180	19.9669	ug/L	99
22) Vinyl Acetate	3.279	86	5443	18.9860	ug/L	96
23) cis-1,2-Dichloroethene	3.572	96	102640	19.4302	ug/L	99
24) 2,2-Dichloropropane	3.699	77	129054	19.1124	ug/L	98
25) Cyclohexane	3.798	56	144077	19.5344	ug/L	99
26) Bromochloromethane	3.812	130	66245	19.9444	ug/L	100
27) Chloroform	3.940	83	164989	19.1357	ug/L	99
28) Carbon Tetrachloride	4.087	117	138822	19.9681	ug/L	99
30) 1,1,1-Trichloroethane	4.183	97	152792	19.7335	ug/L	100
31) 1,1-Dichloropropene	4.351	75	121668	19.7393	ug/L	99
32) 2-Butanone	4.368	43	24631	20.5933	ug/L	94
33) Benzene	4.652	78	368184	19.8401	ug/L	100
35) 1,2-Dichloroethane	4.895	62	111400	20.1026	ug/L	99
36) Methylcyclohexane	5.300	83	163170	19.4868	ug/L	100
37) Trichloroethene	5.326	130	109513	19.5593	ug/L	100
38) Dibromomethane	5.743	93	54761	19.9738	ug/L	100
39) 1,2-Dichloropropane	5.853	63	92573	19.5225	ug/L	99
40) Bromodichloromethane	5.940	83	125486	19.5912	ug/L	100
41) 1,4-Dioxane	6.157	88	1381	38.1907	ug/L	92
42) 2-Chloroethyl Vinyl Ether	6.531	63	45599	21.1679	ug/L	99
43) cis-1,3-Dichloropropene	6.548	75	143453	19.6177	ug/L	100
44) 4-Methyl-2-Pentanone	7.816	58	22490	20.5552	ug/L	99
45) trans-1,3-Dichloropropene	7.148	75	124347	19.9318	ug/L	100
48) Toluene	6.760	91	423306	18.9439	ug/L	100
49) Tetrachloroethene	7.090	166	120250	19.5877	ug/L	99

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014375.D
Acq On : 12 Aug 2015 17:30
Operator : ADC
Sample : WG534785-08 20.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 12:17:30 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

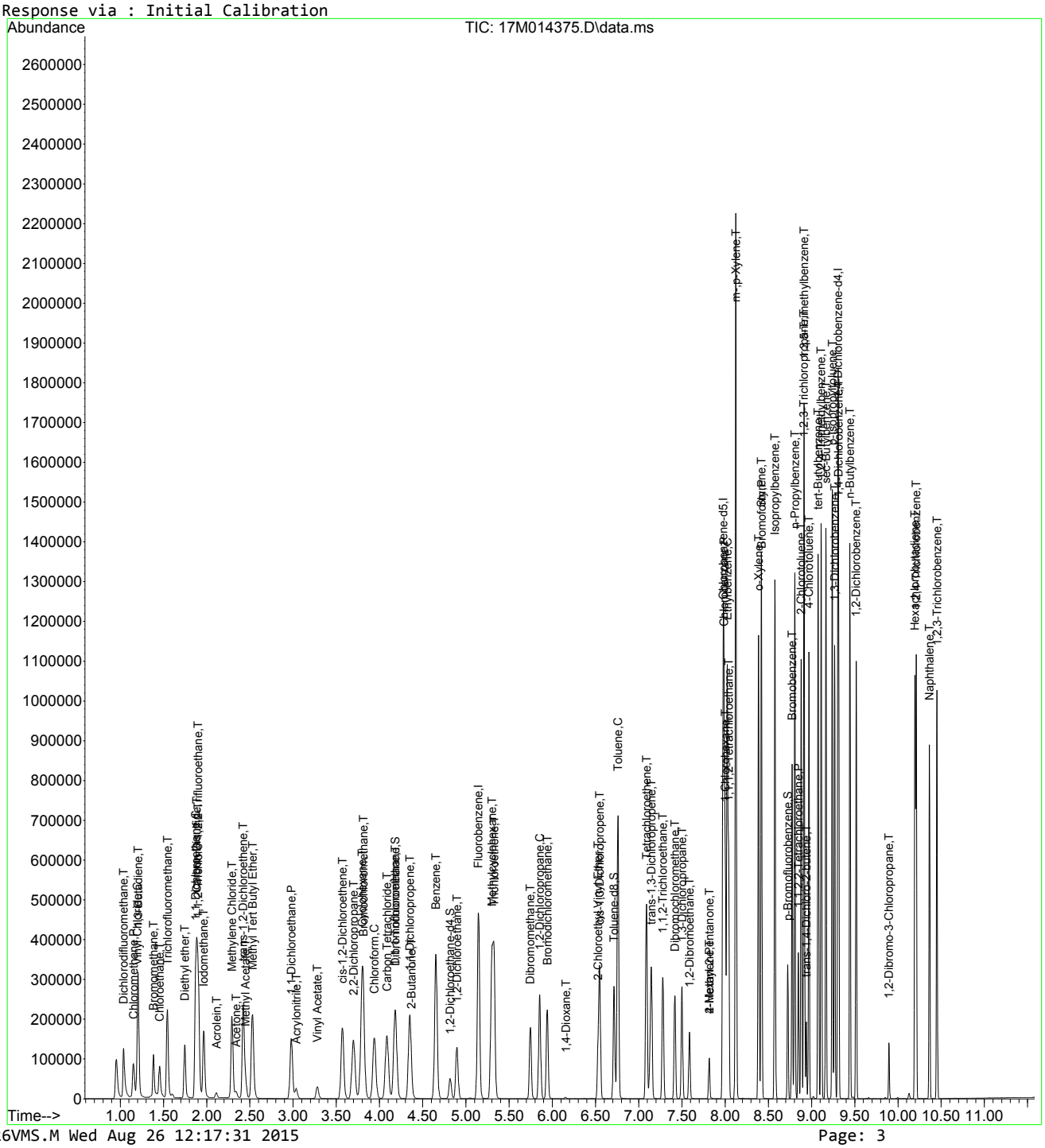
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,1,2-Trichloroethane	7.278	97	77480	19.6028	ug/L		100
51) Dibromochloromethane	7.417	129	102527	19.6749	ug/L		100
52) 1,3-Dichloropropane	7.501	76	120120	19.5435	ug/L		99
53) 1,2-Dibromoethane	7.588	107	78853	19.7291	ug/L		99
54) 2-Hexanone	7.816	43	40100	20.0157	ug/L		100
55) Chlorobenzene	7.987	112	276962	19.7058	ug/L		99
56) 1-Chlorohexane	8.002	69	23881	18.7847	ug/L		86
57) Ethylbenzene	8.025	106	148869	19.7284	ug/L		98
58) 1,1,1,2-Tetrachloroethane	8.039	131	104590	19.7781	ug/L		100
59) m-,p-Xylene	8.123	106	361604	40.3623	ug/L		98
60) o-Xylene	8.387	106	177775	19.7412	ug/L		99
61) Styrene	8.419	104	290618	19.9673	ug/L		100
62) Bromoform	8.422	173	70688	20.1662	ug/L		100
63) Isopropylbenzene	8.575	105	470334	20.2174	ug/L		100
65) 1,3,5-Trimethylbenzene	8.914	105	412751	20.0939	ug/L		99
67) Bromobenzene	8.775	156	130699	18.7624	ug/L		99
68) n-Propylbenzene	8.807	91	526257	20.1358	ug/L		99
69) 1,1,2,2-Tetrachloroethane	8.847	83	91381	19.6056	ug/L		100
70) 2-Chlorotoluene	8.879	91	320845	19.5641	ug/L		100
71) 1,2,3-Trichloropropane	8.911	110	25449	19.7563	ug/L		99
72) trans-1,4-Dichloro-2-b...	8.940	53	17412	20.3095	ug/L	#	97
73) 1,2,4-Trimethylbenzene	9.111	105	407769	19.9880	ug/L		100
74) 4-Chlorotoluene	8.969	91	326097	19.8475	ug/L		99
75) tert-Butylbenzene	9.076	134	78736	19.4793	ug/L		100
76) sec-Butylbenzene	9.166	105	510731	20.3613	ug/L		99
77) p-Isopropyltoluene	9.241	119	446412	20.5357	ug/L		100
78) 1,3-Dichlorobenzene	9.267	146	236438	19.6444	ug/L		99
79) 1,4-Dichlorobenzene	9.313	146	231020	18.9093	ug/L		100
80) n-Butylbenzene	9.444	91	374678	20.3983	ug/L		100
81) 1,2-Dichlorobenzene	9.516	146	227175	19.1836	ug/L		99
82) 1,2-Dibromo-3-Chloropr...	9.895	75	16273	19.7378	ug/L		100
83) Hexachlorobutadiene	10.196	225	105031	19.7826	ug/L		100
84) 1,2,4-Trichlorobenzene	10.211	180	173642	19.8311	ug/L		100
85) Naphthalene	10.364	128	332803	20.1209	ug/L		100
86) 1,2,3-Trichlorobenzene	10.451	180	165600	19.8768	ug/L		100

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014375.D
Acq On : 12 Aug 2015 17:30
Operator : ADC
Sample : WG534785-08 20.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 12:17:30 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration



826VMS.M Wed Aug 26 12:17:31 2015 Page: 3

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014376.D
Acq On : 12 Aug 2015 17:50
Operator : ADC
Sample : WG534785-09 100.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 12:17:33 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	411612	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.976	117	317754	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.308	152	175751	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.183	111	215264	51.0097	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 204.039%#			
34) 1,2-Dichloroethane-d4	4.817	65	195712	50.9129	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 203.652%#			
47) Toluene-d8	6.713	98	805901	49.4543	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 197.817%#			
66) p-Bromofluorobenzene	8.726	95	305890	50.2826	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 201.130%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.036	85	579389	111.6322	ug/L	100
3) Chloromethane	1.149	50	425833	101.5549	ug/L	99
4) Vinyl Chloride	1.195	62	521729	107.3501	ug/L	100
5) 1,3-Butadiene	1.206	54	389128	103.1248	ug/L	99
6) Bromomethane	1.383	94	280316	104.7134	ug/L	99
7) Chloroethane	1.450	64	205513	95.8494	ug/L	98
8) Trichlorofluoromethane	1.531	101	743651	103.6589	ug/L	100
9) Diethyl ether	1.751	59	312716	102.3815	ug/L	99
10) 1,1-Dichloroethene	1.864	61	636702	103.7168	ug/L	100
11) Carbon Disulfide	1.878	76	1356701	100.9641	ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.896	101	448670	103.3312	ug/L	99
13) Iodomethane	1.962	142	820562	106.3045	ug/L	100
14) Acrolein	2.113	56	48810	99.5816	ug/L	100
15) Methylene Chloride	2.289	84	458065	98.8033	ug/L	98
16) Acetone	2.347	43	70989	102.2031	ug/L	96
17) trans-1,2-Dichloroethene	2.420	96	448047	101.7576	ug/L	99
18) Methyl Acetate	2.451	43	251901	97.8625	ug/L #	98
19) Methyl Tert Butyl Ether	2.533	73	1098660	102.5343	ug/L	99
20) 1,1-Dichloroethane	2.976	63	784163	103.0362	ug/L	100
21) Acrylonitrile	3.039	53	99571	104.0115	ug/L	99
22) Vinyl Acetate	3.280	86	29193	107.5057	ug/L	99
23) cis-1,2-Dichloroethene	3.569	96	506175	101.1628	ug/L	99
24) 2,2-Dichloropropane	3.699	77	657573	102.8129	ug/L	99
25) Cyclohexane	3.798	56	706925	101.1900	ug/L	99
26) Bromochloromethane	3.809	130	330646	105.0971	ug/L	99
27) Chloroform	3.940	83	808837	99.0399	ug/L	99
28) Carbon Tetrachloride	4.082	117	700309	106.3472	ug/L	100
30) 1,1,1-Trichloroethane	4.180	97	751824	102.5129	ug/L	100
31) 1,1-Dichloropropene	4.348	75	607676	104.0845	ug/L	99
32) 2-Butanone	4.371	43	117889	104.0580	ug/L	96
33) Benzene	4.652	78	1788502	101.7485	ug/L	100
35) 1,2-Dichloroethane	4.895	62	542770	103.4052	ug/L	100
36) Methylcyclohexane	5.300	83	804355	101.4160	ug/L	100
37) Trichloroethene	5.327	130	545914	102.9369	ug/L	99
38) Dibromomethane	5.746	93	276470	106.4621	ug/L	99
39) 1,2-Dichloropropane	5.854	63	459549	102.3158	ug/L	99
40) Bromodichloromethane	5.940	83	635009	104.6659	ug/L	100
41) 1,4-Dioxane	6.158	88	7338	214.2401	ug/L	98
42) 2-Chloroethyl Vinyl Ether	6.531	63	214860	105.3018	ug/L	100
43) cis-1,3-Dichloropropene	6.548	75	732405	105.7424	ug/L	99
44) 4-Methyl-2-Pentanone	7.817	58	110569	106.6903	ug/L	100
45) trans-1,3-Dichloropropene	7.148	75	633985	107.2877	ug/L	100
48) Toluene	6.760	91	2060663	94.8508	ug/L	99
49) Tetrachloroethene	7.090	166	603520	101.1137	ug/L	100

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014376.D
Acq On : 12 Aug 2015 17:50
Operator : ADC
Sample : WG534785-09 100.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 12:17:33 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

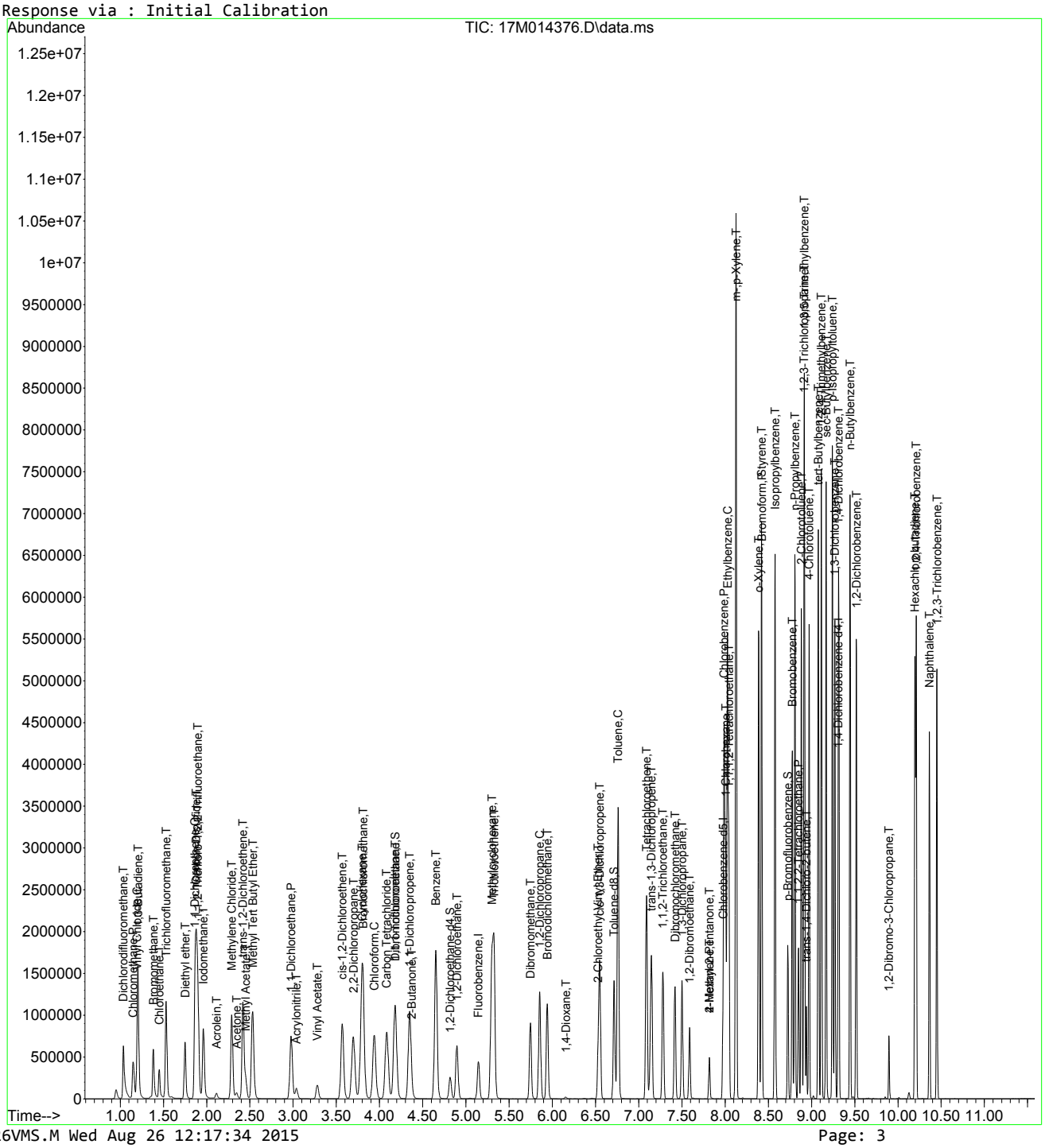
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,1,2-Trichloroethane	7.278	97	382725	99.5944	ug/L		100
51) Dibromochloromethane	7.420	129	533325	105.2654	ug/L		100
52) 1,3-Dichloropropane	7.501	76	597548	99.9952	ug/L		99
53) 1,2-Dibromoethane	7.588	107	395195	101.6996	ug/L		100
54) 2-Hexanone	7.817	43	197747	101.5207	ug/L		100
55) Chlorobenzene	7.987	112	1394078	102.0186	ug/L		99
56) 1-Chlorohexane	8.005	69	123320	99.7709	ug/L		97
57) Ethylbenzene	8.028	106	753834	102.7499	ug/L		98
58) 1,1,1,2-Tetrachloroethane	8.042	131	528022	102.6986	ug/L		100
59) m-,p-Xylene	8.126	106	1808266	207.5983	ug/L		98
60) o-Xylene	8.390	106	894016	102.1099	ug/L		99
61) Styrene	8.422	104	1482034	104.7305	ug/L		100
62) Bromoform	8.425	173	375450	110.1664	ug/L		100
63) Isopropylbenzene	8.578	105	2340634	103.4833	ug/L		99
65) 1,3,5-Trimethylbenzene	8.917	105	2064898	100.0099	ug/L		99
67) Bromobenzene	8.778	156	669644	95.6374	ug/L		100
68) n-Propylbenzene	8.807	91	2649811	100.8682	ug/L		99
69) 1,1,2,2-Tetrachloroethane	8.850	83	458107	97.7822	ug/L		100
70) 2-Chlorotoluene	8.882	91	1617278	98.1109	ug/L		99
71) 1,2,3-Trichloropropane	8.914	110	127724	98.6453	ug/L		98
72) trans-1,4-Dichloro-2-b...	8.940	53	93518	108.5210	ug/L	#	98
73) 1,2,4-Trimethylbenzene	9.114	105	2047334	99.8416	ug/L		99
74) 4-Chlorotoluene	8.972	91	1637125	99.1310	ug/L		99
75) tert-Butylbenzene	9.079	134	403557	99.3284	ug/L		97
76) sec-Butylbenzene	9.169	105	2540988	100.7821	ug/L		99
77) p-Isopropyltoluene	9.241	119	2247798	102.8723	ug/L		99
78) 1,3-Dichlorobenzene	9.270	146	1214543	100.3926	ug/L		99
79) 1,4-Dichlorobenzene	9.313	146	1194926	97.3049	ug/L		100
80) n-Butylbenzene	9.447	91	1937484	104.9403	ug/L		99
81) 1,2-Dichlorobenzene	9.519	146	1155174	97.0474	ug/L		99
82) 1,2-Dibromo-3-Chloropr...	9.895	75	86085	103.8786	ug/L		99
83) Hexachlorobutadiene	10.197	225	530977	99.4971	ug/L		100
84) 1,2,4-Trichlorobenzene	10.211	180	902797	102.5771	ug/L		100
85) Naphthalene	10.364	128	1672459	100.5966	ug/L		100
86) 1,2,3-Trichlorobenzene	10.451	180	847716	101.2287	ug/L		100

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014376.D
Acq On : 12 Aug 2015 17:50
Operator : ADC
Sample : WG534785-09 100.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 12:17:33 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration



826VMS.M Wed Aug 26 12:17:34 2015 Page: 3

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014377.D
Acq On : 12 Aug 2015 18:09
Operator : ADC
Sample : WG534785-10 200.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 12:17:36 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	410007	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.979	117	312078	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.311	152	169849	25.00000	ug/L	# 0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.183	111	414137	98.5195	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 394.078%#			
34) 1,2-Dichloroethane-d4	4.817	65	370352	96.7212	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 386.885%#			
47) Toluene-d8	6.716	98	1538222	96.1102	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 384.441%#			
66) p-Bromofluorobenzene	8.729	95	584549	99.4278	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 397.711%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.036	85	1131627	218.8866	ug/L	100
3) Chloromethane	1.149	50	868278	207.8822	ug/L	100
4) Vinyl Chloride	1.195	62	1039238	214.6689	ug/L	100
5) 1,3-Butadiene	1.204	54	802105	213.4021	ug/L	98
6) Bromomethane	1.383	94	599811	224.9394	ug/L	99
7) Chloroethane	1.450	64	374479	195.6508	ug/L	97
8) Trichlorofluoromethane	1.525	101	719761	100.7216	ug/L	99
9) Diethyl ether	1.754	59	624879	205.3828	ug/L	99
10) 1,1-Dichloroethene	1.861	61	1264967	206.8658	ug/L	99
11) Carbon Disulfide	1.875	76	2723076	203.4413	ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.893	101	885644	204.7673	ug/L	99
13) Iodomethane	1.959	142	1614473	209.2745	ug/L	100
14) Acrolein	2.119	56	98114	200.9546	ug/L	98
15) Methylene Chloride	2.289	84	911294	197.3330	ug/L	99
16) Acetone	2.353	43	138222	199.7777	ug/L	97
17) trans-1,2-Dichloroethene	2.417	96	906120	206.5979	ug/L	99
18) Methyl Acetate	2.454	43	504757	196.8636	ug/L #	98
19) Methyl Tert Butyl Ether	2.535	73	2170757	203.3826	ug/L	100
20) 1,1-Dichloroethane	2.978	63	1569215	206.9964	ug/L	100
21) Acrylonitrile	3.045	53	198696	208.3697	ug/L	100
22) Vinyl Acetate	3.283	86	60913	225.1954	ug/L	99
23) cis-1,2-Dichloroethene	3.569	96	1014749	203.5989	ug/L	100
24) 2,2-Dichloropropane	3.699	77	1314337	206.3037	ug/L	100
25) Cyclohexane	3.798	56	1428682	205.3035	ug/L	99
26) Bromochloromethane	3.812	130	662924	211.5379	ug/L	99
27) Chloroform	3.943	83	1604499	197.2357	ug/L	100
28) Carbon Tetrachloride	4.085	117	1416375	215.9291	ug/L	100
30) 1,1,1-Trichloroethane	4.183	97	1499055	205.1996	ug/L	100
31) 1,1-Dichloropropene	4.351	75	1222135	210.1502	ug/L	99
32) 2-Butanone	4.380	43	227896	201.9461	ug/L	97
33) Benzene	4.655	78	3558317	203.2263	ug/L	100
35) 1,2-Dichloroethane	4.898	62	1071470	204.9289	ug/L	100
36) Methylcyclohexane	5.303	83	1619329	204.9701	ug/L	99
37) Trichloroethene	5.327	130	1097047	207.6677	ug/L	99
38) Dibromomethane	5.749	93	548664	212.1047	ug/L	100
39) 1,2-Dichloropropane	5.856	63	921230	205.9091	ug/L	100
40) Bromodichloromethane	5.943	83	1267504	209.7353	ug/L	100
41) 1,4-Dioxane	6.169	88	14750	432.3265	ug/L	98
42) 2-Chloroethyl Vinyl Ether	6.534	63	407038	200.2682	ug/L	100
43) cis-1,3-Dichloropropene	6.551	75	1469331	212.9679	ug/L	99
44) 4-Methyl-2-Pentanone	7.822	58	219142	212.2823	ug/L	100
45) trans-1,3-Dichloropropene	7.151	75	1265997	215.0801	ug/L	100
48) Toluene	6.763	91	4018738	188.3440	ug/L	99
49) Tetrachloroethene	7.093	166	1198756	204.4923	ug/L	99

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014377.D
Acq On : 12 Aug 2015 18:09
Operator : ADC
Sample : WG534785-10 200.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 12:17:36 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

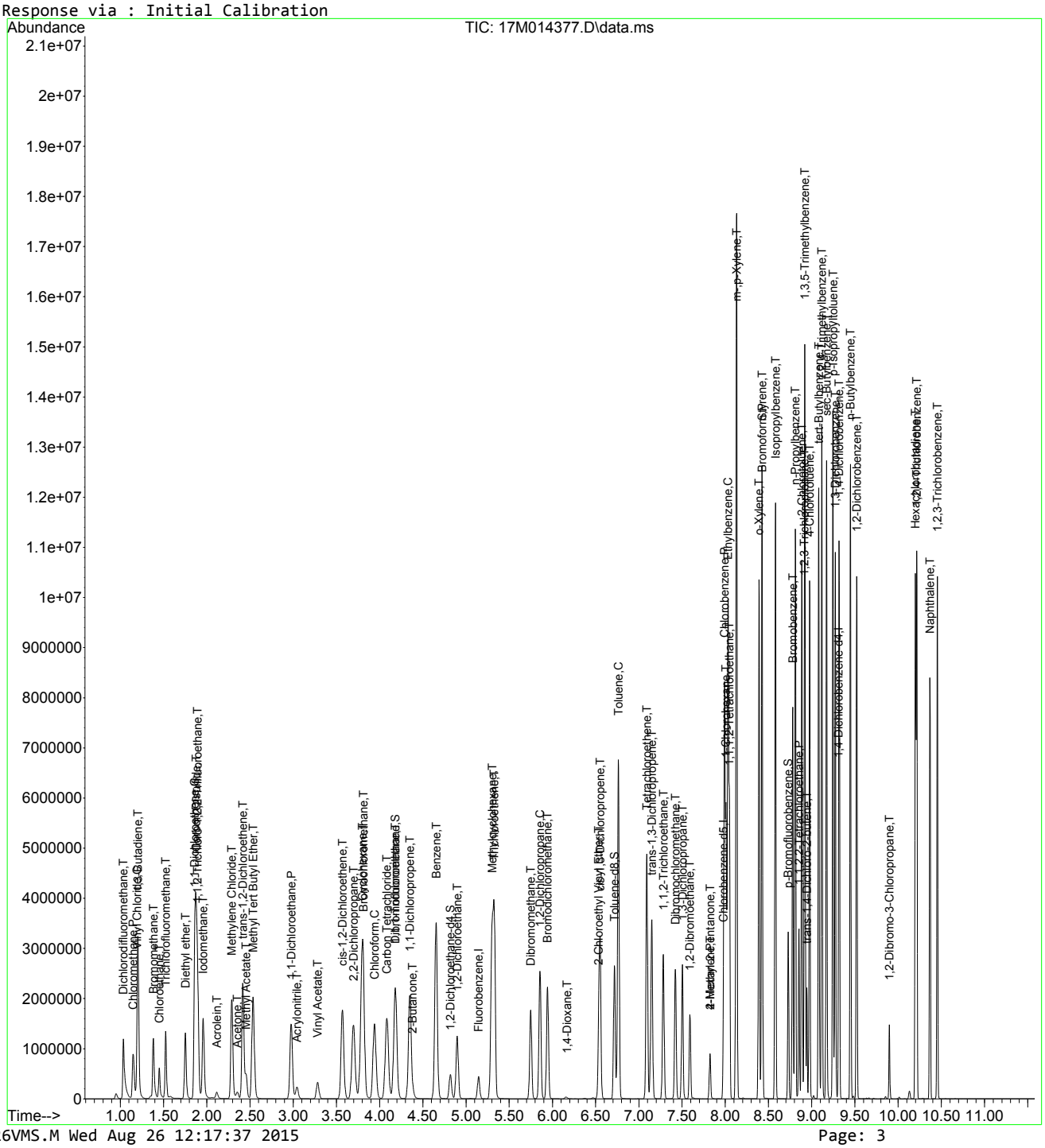
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) 1,1,2-Trichloroethane	7.284	97	751577	199.1359 ug/L	99
51) Dibromochloromethane	7.423	129	1066816	214.3932 ug/L	99
52) 1,3-Dichloropropane	7.504	76	1173781	199.9960 ug/L	98
53) 1,2-Dibromoethane	7.591	107	773859	202.7671 ug/L	100
54) 2-Hexanone	7.822	43	385878	201.7077 ug/L	99
55) Chlorobenzene	7.990	112	2708330	201.8003 ug/L	100
56) 1-Chlorohexane	8.008	69	247791	204.1192 ug/L	90
57) Ethylbenzene	8.031	106	1469273	203.9088 ug/L	95
58) 1,1,1,2-Tetrachloroethane	8.048	131	1034472	204.8609 ug/L	99
59) m-,p-Xylene	8.132	106	3327567	388.9700 ug/L	92
60) o-Xylene	8.390	106	1740680	202.4275 ug/L	96
61) Styrene	8.425	104	2828319	203.5033 ug/L	99
62) Bromoform	8.428	173	738289	220.5724 ug/L	99
63) Isopropylbenzene	8.581	105	4327361	194.7995 ug/L	96
65) 1,3,5-Trimethylbenzene	8.920	105	3786429	189.7619 ug/L	98
67) Bromobenzene	8.781	156	1307742	193.2595 ug/L	100
68) n-Propylbenzene	8.810	91	4827187	190.1377 ug/L	96
69) 1,1,2,2-Tetrachloroethane	8.853	83	889375	196.4322 ug/L	100
70) 2-Chlorotoluene	8.885	91	3066298	192.4783 ug/L	98
71) 1,2,3-Trichloropropane	8.914	110	243309	194.4450 ug/L	96
72) trans-1,4-Dichloro-2-b...	8.943	53	180738	217.0215 ug/L #	96
73) 1,2,4-Trimethylbenzene	9.117	105	3779403	190.7133 ug/L	97
74) 4-Chlorotoluene	8.975	91	3128303	196.0069 ug/L	99
75) tert-Butylbenzene	9.082	134	777549	198.0302 ug/L	91
76) sec-Butylbenzene	9.172	105	4570710	187.5854 ug/L	96
77) p-Isopropyltoluene	9.247	119	4034589	191.0624 ug/L	96
78) 1,3-Dichlorobenzene	9.273	146	2327160	199.0444 ug/L	98
79) 1,4-Dichlorobenzene	9.316	146	2294121	193.3058 ug/L	100
80) n-Butylbenzene	9.450	91	3603966	201.9852 ug/L	96
81) 1,2-Dichlorobenzene	9.519	146	2213867	192.4522 ug/L	98
82) 1,2-Dibromo-3-Chloropr...	9.898	75	166916	208.4161 ug/L	98
83) Hexachlorobutadiene	10.199	225	1051518	203.8855 ug/L	100
84) 1,2,4-Trichlorobenzene	10.214	180	1796316	211.1922 ug/L	99
85) Naphthalene	10.367	128	3179854	197.9108 ug/L	99
86) 1,2,3-Trichlorobenzene	10.454	180	1675472	207.0261 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014377.D
Acq On : 12 Aug 2015 18:09
Operator : ADC
Sample : WG534785-10 200.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 12:17:36 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration



826VMS.M Wed Aug 26 12:17:37 2015 Page: 3

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014378.D
Acq On : 12 Aug 2015 18:29
Operator : ADC
Sample : WG534785-11 300.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 26 12:17:39 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.147	96	446106	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.982	117	321725	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.311	152	168328	25.00000	ug/L	# 0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.192	111	1502	0.3284	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery =	1.314%#		
34) 1,2-Dichloroethane-d4	4.901	65	74257	17.8237	ug/L	0.0840
Spiked Amount 25.000	Range 80 - 120		Recovery =	71.295%#		
47) Toluene-d8	6.716	98	6826	0.4137	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery =	1.655%#		
66) p-Bromofluorobenzene	8.729	95	3027	0.5195	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery =	2.078%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.036	85	1753125	311.6606	ug/L	100
3) Chloromethane	1.149	50	1387295	305.2675	ug/L	100
4) Vinyl Chloride	1.195	62	1629605	309.3782	ug/L	100
5) 1,3-Butadiene	1.204	54	1254772	306.8213	ug/L	98
6) Bromomethane	1.380	94	947588	326.6058	ug/L	99
7) Chloroethane	1.450	64	559603	307.0650	ug/L	98
8) Trichlorofluoromethane	1.525	101	1101244	141.6351	ug/L	100
9) Diethyl ether	1.754	59	991037	299.3720	ug/L	99
10) 1,1-Dichloroethene	1.858	61	2006268	301.5447	ug/L	99
11) Carbon Disulfide	1.872	76	4220512	289.7996	ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.890	101	1399148	297.3160	ug/L	99
13) Iodomethane	1.956	142	2392167	284.7305	ug/L	99
14) Acrolein	2.116	56	154590	291.0058	ug/L	99
15) Methylene Chloride	2.289	84	1451509	288.8778	ug/L	98
16) Acetone	2.356	43	213214	283.2297	ug/L	96
17) trans-1,2-Dichloroethene	2.417	96	1443913	302.5759	ug/L	99
18) Methyl Acetate	2.457	43	795764	285.2467	ug/L #	98
19) Methyl Tert Butyl Ether	2.538	73	3473107	299.0708	ug/L	100
20) 1,1-Dichloroethane	2.976	63	2505641	303.7753	ug/L	99
21) Acrylonitrile	3.048	53	309158	297.9745	ug/L	99
22) Vinyl Acetate	3.283	86	96100	326.5323	ug/L	99
23) cis-1,2-Dichloroethene	3.569	96	1629402	300.4681	ug/L	99
24) 2,2-Dichloropropane	3.699	77	2077713	299.7361	ug/L	99
25) Cyclohexane	3.801	56	2249943	297.1567	ug/L	99
26) Bromochloromethane	3.812	130	1067459	313.0609	ug/L	100
27) Chloroform	3.940	83	2547819	287.8510	ug/L	100
28) Carbon Tetrachloride	4.085	117	2260587	316.7433	ug/L	99
30) 1,1,1-Trichloroethane	4.183	97	2378284	299.2098	ug/L	100
31) 1,1-Dichloropropene	4.351	75	1956322	309.1748	ug/L	98
32) 2-Butanone	4.386	43	342962	279.3174	ug/L	99
33) Benzene	4.655	78	5598176	293.8563	ug/L	99
35) 1,2-Dichloroethane	4.898	62	1708093	300.2533	ug/L	100
36) Methylcyclohexane	5.303	83	2553427	297.0518	ug/L	99
37) Trichloroethene	5.330	130	1743017	303.2484	ug/L	99
38) Dibromomethane	5.749	93	874934	310.8654	ug/L	100
39) 1,2-Dichloropropane	5.859	63	1464718	300.8949	ug/L	100
40) Bromodichloromethane	5.946	83	1986811	302.1565	ug/L	100
41) 1,4-Dioxane	6.175	88	22515	606.5198	ug/L	95
42) 2-Chloroethyl Vinyl Ether	6.540	63	606163	274.1067	ug/L	99
43) cis-1,3-Dichloropropene	6.554	75	2306897	307.3095	ug/L	99
44) 4-Methyl-2-Pentanone	7.825	58	323757	288.2442	ug/L	100
45) trans-1,3-Dichloropropene	7.154	75	1967927	307.2768	ug/L	99
48) Toluene	6.766	91	6082813	276.5316	ug/L	97
49) Tetrachloroethene	7.096	166	1879853	311.0630	ug/L	99

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014378.D
Acq On : 12 Aug 2015 18:29
Operator : ADC
Sample : WG534785-11 300.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 26 12:17:39 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

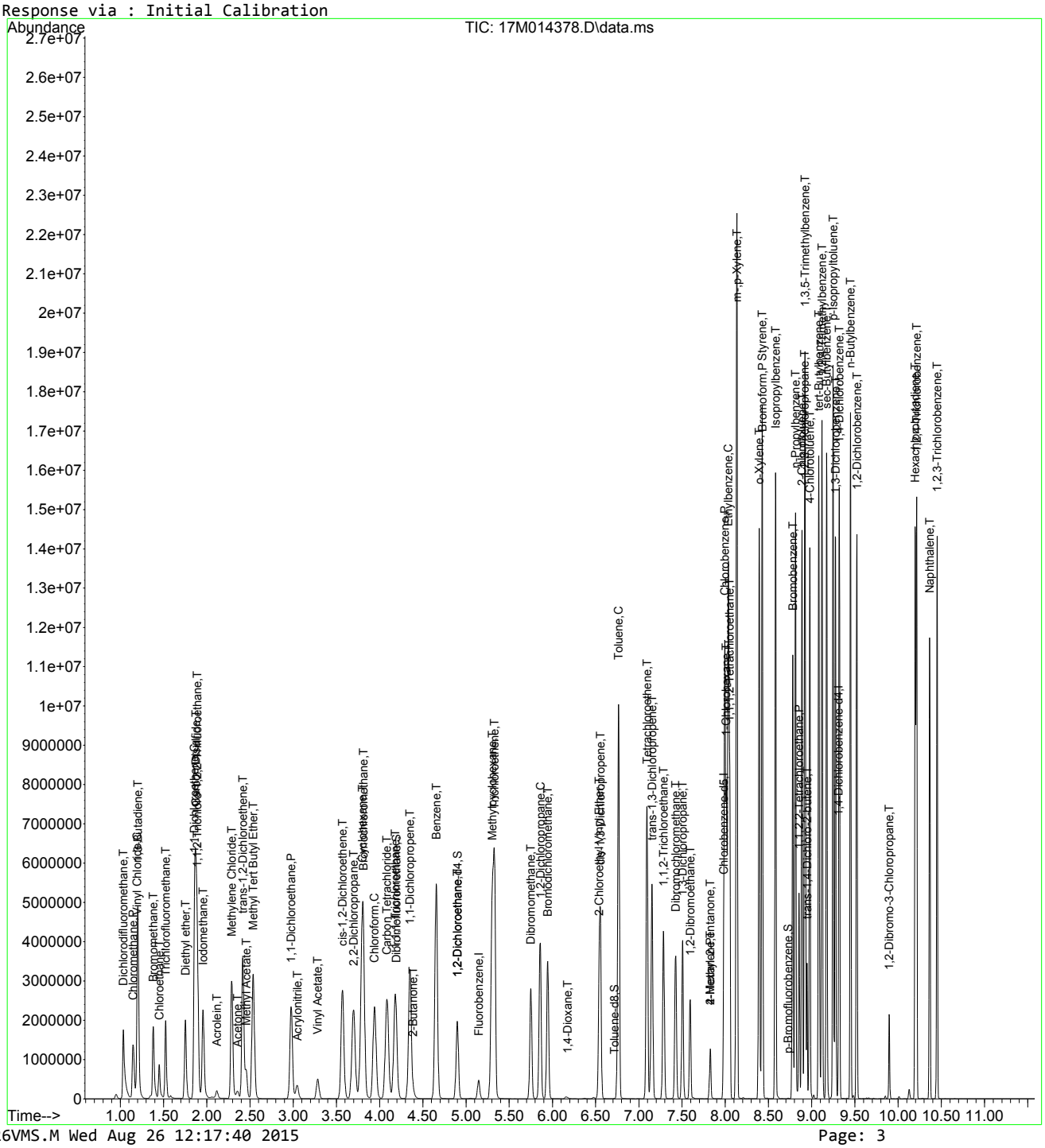
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,1,2-Trichloroethane	7.284	97	1159116	297.9074	ug/L		99
51) Dibromochloromethane	7.426	129	1652628	322.1625	ug/L		99
52) 1,3-Dichloropropane	7.507	76	1812173	299.5106	ug/L		98
53) 1,2-Dibromoethane	7.594	107	1200810	305.2026	ug/L		100
54) 2-Hexanone	7.825	43	568188	288.0997	ug/L		99
55) Chlorobenzene	7.993	112	4008326	289.7088	ug/L		98
56) 1-Chlorohexane	8.011	69	371535	296.8770	ug/L		80
57) Ethylbenzene	8.034	106	2179900	293.4597	ug/L		90
58) 1,1,1,2-Tetrachloroethane	8.051	131	1548647	297.4891	ug/L		99
59) m-,p-Xylene	8.135	106	4619307	523.7746	ug/L		87
60) o-Xylene	8.393	106	2555062	288.2241	ug/L		94
61) Styrene	8.428	104	4022590	280.7547	ug/L		96
62) Bromoform	8.430	173	1087989	315.3027	ug/L		99
63) Isopropylbenzene	8.581	105	5959804	260.2406	ug/L		93
65) 1,3,5-Trimethylbenzene	8.923	105	5192144	262.5624	ug/L		96
67) Bromobenzene	8.781	156	1946119	290.1983	ug/L		99
68) n-Propylbenzene	8.813	91	6591308	261.9704	ug/L		93
69) 1,1,2,2-Tetrachloroethane	8.853	83	1326018	295.5179	ug/L		99
70) 2-Chlorotoluene	8.888	91	4367630	276.6431	ug/L		97
71) 1,2,3-Trichloropropane	8.917	110	351854	283.7316	ug/L		96
72) trans-1,4-Dichloro-2-b...	8.946	53	269201	326.1645	ug/L	#	95
73) 1,2,4-Trimethylbenzene	9.120	105	5187275	264.1214	ug/L		95
74) 4-Chlorotoluene	8.978	91	4450932	281.3974	ug/L		97
75) tert-Butylbenzene	9.082	134	1122775	288.5379	ug/L		86
76) sec-Butylbenzene	9.172	105	6121369	253.4957	ug/L		93
77) p-Isopropyltoluene	9.247	119	5357687	256.0117	ug/L		93
78) 1,3-Dichlorobenzene	9.276	146	3309974	285.6636	ug/L		95
79) 1,4-Dichlorobenzene	9.319	146	3244297	275.8390	ug/L		98
80) n-Butylbenzene	9.450	91	4860355	274.8613	ug/L		92
81) 1,2-Dichlorobenzene	9.522	146	3148855	276.2044	ug/L		96
82) 1,2-Dibromo-3-Chloropr...	9.895	75	254657	320.8452	ug/L		99
83) Hexachlorobutadiene	10.197	225	1487301	290.9880	ug/L		99
84) 1,2,4-Trichlorobenzene	10.214	180	2560098	303.7095	ug/L		98
85) Naphthalene	10.365	128	4489089	281.9209	ug/L		97
86) 1,2,3-Trichlorobenzene	10.451	180	2369049	295.3715	ug/L		99

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

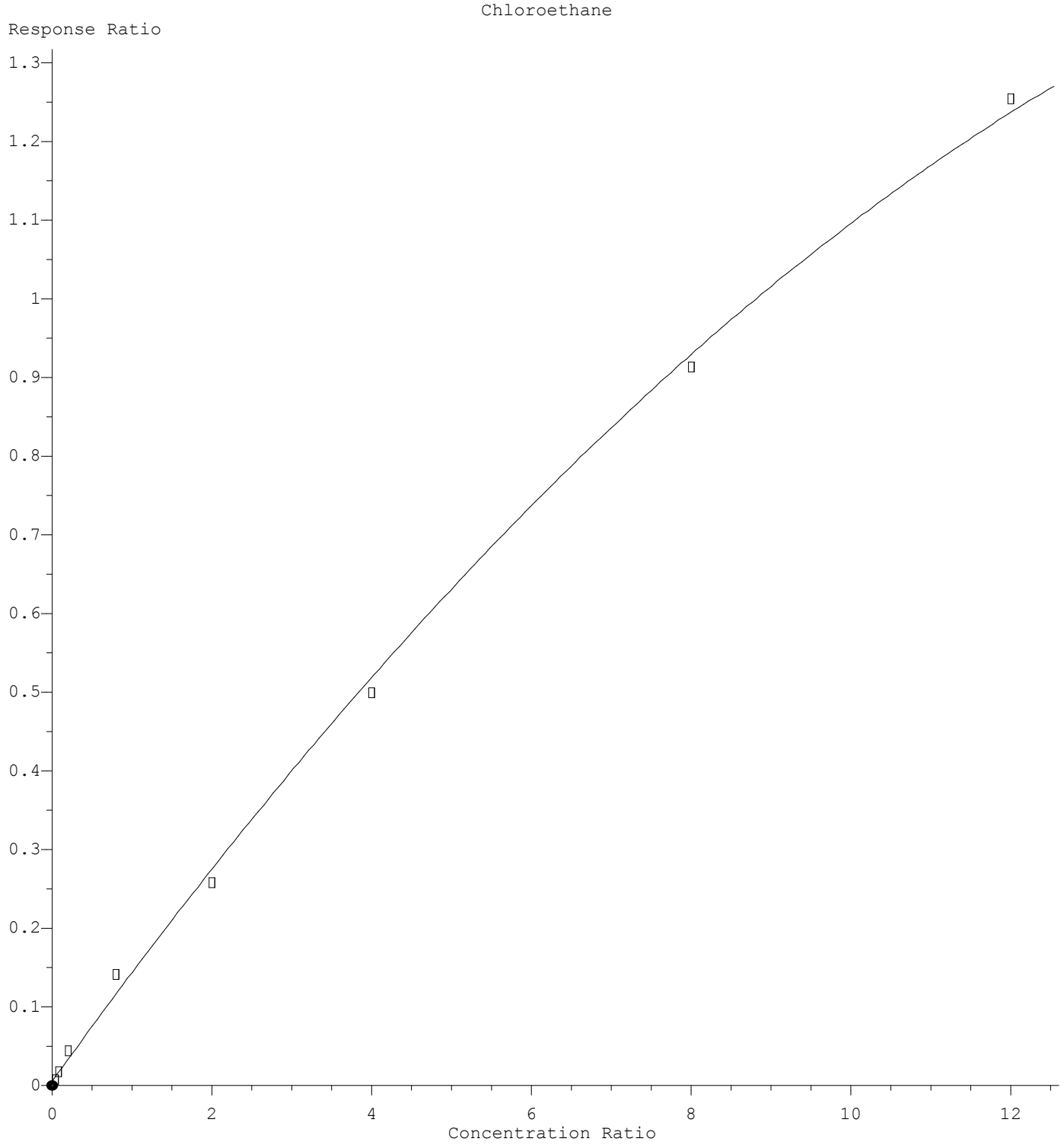
Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014378.D
Acq On : 12 Aug 2015 18:29
Operator : ADC
Sample : WG534785-11 300.0ug/L STD
Misc : 1,1 STD71944
ALS Vial : 11 Sample Multiplier: 1

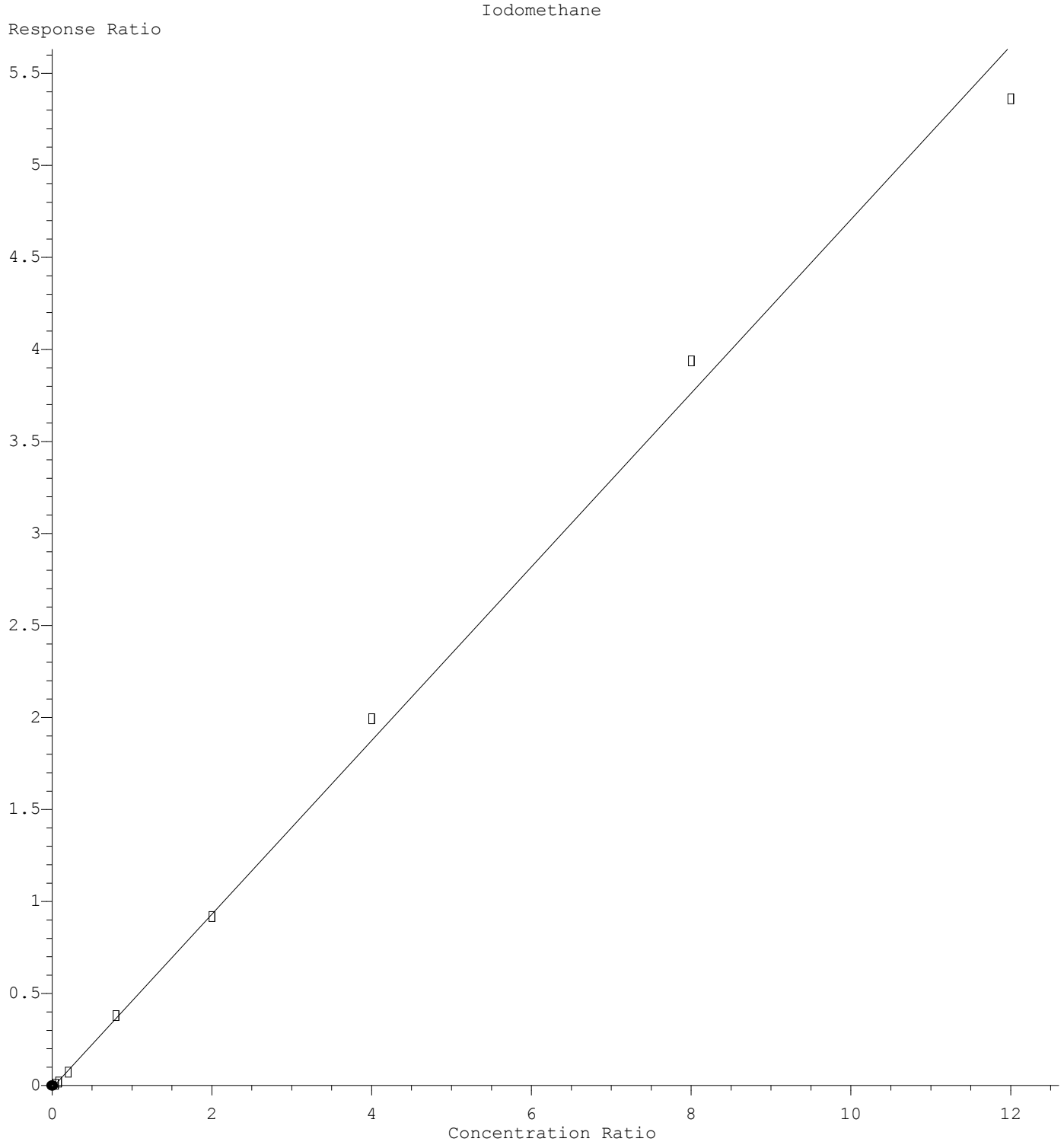
Quant Time: Aug 26 12:17:39 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration



826VMS.M Wed Aug 26 12:17:40 2015 Page: 3



R = -3.218e-003 A*A + 1.412e-001 A + 5.064e-003
Coef of Det (r^2) = 0.993983 Curve Fit: Quadratic w(1/a)
Method Name: D:\MassHunter\GCMS\1\methods\826VMS.M
Calibration Table Last Updated: Thu Aug 20 16:10:41 2015



Response = 4.720e-001 * Amt - 1.356e-002
Coef of Det (r^2) = 0.997325 Curve Fit: wlr(1/a)
Method Name: D:\MassHunter\GCMS\1\methods\826VMS.M
Calibration Table Last Updated: Thu Aug 20 16:10:41 2015

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\082115\
Data File : 17M014385.D
Acq On : 21 Aug 2015 13:07
Operator : ADC
Sample : WG534785-12 50ug/L ALTSRC
Misc : 1,1 STD71945
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 27 16:33:08 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.144	96	403974	25.00000	ug/L		0.0000
46) Chlorobenzene-d5	7.976	117	288663	25.00000	ug/L		0.0000
64) 1,4-Dichlorobenzene-d4	9.307	152	150482	25.00000	ug/L		0.0000
System Monitoring Compounds							
29) Dibromofluoromethane	4.183	111	106376	25.6838	ug/L		0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 102.735%				
34) 1,2-Dichloroethane-d4	4.817	65	95343	25.2717	ug/L		0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 101.087%				
47) Toluene-d8	6.713	98	400205	27.0337	ug/L		0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 108.135%				
66) p-Bromofluorobenzene	8.726	95	134431	25.8086	ug/L		0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 103.234%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.035	85	298450	58.5902	ug/L		99
3) Chloromethane	1.148	50	241134	58.5942	ug/L		99
4) Vinyl Chloride	1.195	62	276812	58.0333	ug/L		100
5) 1,3-Butadiene	1.206	54	137713	37.1861	ug/L		98
6) Bromomethane	1.383	94	134374	51.1451	ug/L		100
7) Chloroethane	1.450	64	110449	49.7518	ug/L		96
8) Trichlorofluoromethane	1.525	101	211037	29.9730	ug/L		99
9) Diethyl ether	1.756	59	732454	244.3353	ug/L		97
10) 1,1-Dichloroethene	1.855	61	305833	50.7612	ug/L		96
11) Carbon Disulfide	1.869	76	353569	26.8097	ug/L		98
12) 1,1,2-Trichloro-1,2,2-...	1.887	101	215073	50.4690	ug/L		99
13) Iodomethane	1.959	142	81448	11.3969	ug/L		99
14) Acrolein	2.118	56	41872	87.0419	ug/L		100
15) Methylene Chloride	2.289	84	214644	47.1735	ug/L		91
16) Acetone	2.362	43	34275	50.2788	ug/L		95
17) trans-1,2-Dichloroethene	2.417	96	215648	49.9026	ug/L		94
18) Methyl acetate	2.457	43	100285	39.6969	ug/L	#	96
19) Methyl Tert Butyl Ether	2.538	73	543464	51.6787	ug/L		99
20) 1,1-Dichloroethane	2.975	63	398094	53.2971	ug/L		100
21) Acrylonitrile	3.048	53	42747	45.4976	ug/L		98
22) Vinyl Acetate	3.282	86	27132	101.8050	ug/L		75
23) cis-1,2-Dichloroethene	3.569	96	242154	49.3113	ug/L		94
24) 2,2-Dichloropropane	3.693	77	349548	55.6859	ug/L		95
25) Cyclohexane	3.792	56	366222	53.4125	ug/L	#	76
26) Bromochloromethane	3.812	130	153360	49.6677	ug/L		100
27) Chloroform	3.939	83	408333	50.9446	ug/L		99
28) Carbon Tetrachloride	4.078	117	346394	53.5971	ug/L		100
30) 1,1,1-Trichloroethane	4.180	97	377884	52.4995	ug/L		99
31) 1,1-Dichloropropene	4.345	75	301458	52.6108	ug/L		97
32) 2-Butanone	4.385	43	53672	48.2708	ug/L	#	67
33) Benzene	4.652	78	892584	51.7395	ug/L		98
35) 1,2-Dichloroethane	4.895	62	252623	49.0381	ug/L		98
36) Methylcyclohexane	5.297	83	406183	52.1813	ug/L		97
37) Trichloroethene	5.323	130	257945	49.5574	ug/L		97
38) Dibromomethane	5.746	93	123820	48.5817	ug/L		100
39) 1,2-Dichloropropane	5.853	63	232965	52.8489	ug/L		98
40) Bromodichloromethane	5.943	83	294551	49.4676	ug/L		100
41) 1,4-Dioxane	6.175	88	13586	404.1562	ug/L		100
42) 2-Chloroethyl Vinyl Ether	6.534	63	110044	54.9517	ug/L		100
43) cis-1,3-Dichloropropene	6.548	75	362234	53.2870	ug/L		98
44) 4-Methyl-2-Pentanone	7.822	58	45159	44.3987	ug/L		97
45) trans-1,3-Dichloropropene	7.148	75	278718	48.0585	ug/L		99
48) Toluene	6.760	91	1001317	50.7348	ug/L		100
49) Tetrachloroethene	7.090	166	291583	53.7750	ug/L		100

Data Path : D:\MassHunter\GCMS\1\data\082115\
Data File : 17M014385.D
Acq On : 21 Aug 2015 13:07
Operator : ADC
Sample : WG534785-12 50ug/L ALTSRC
Misc : 1,1 STD71945
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 27 16:33:08 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration

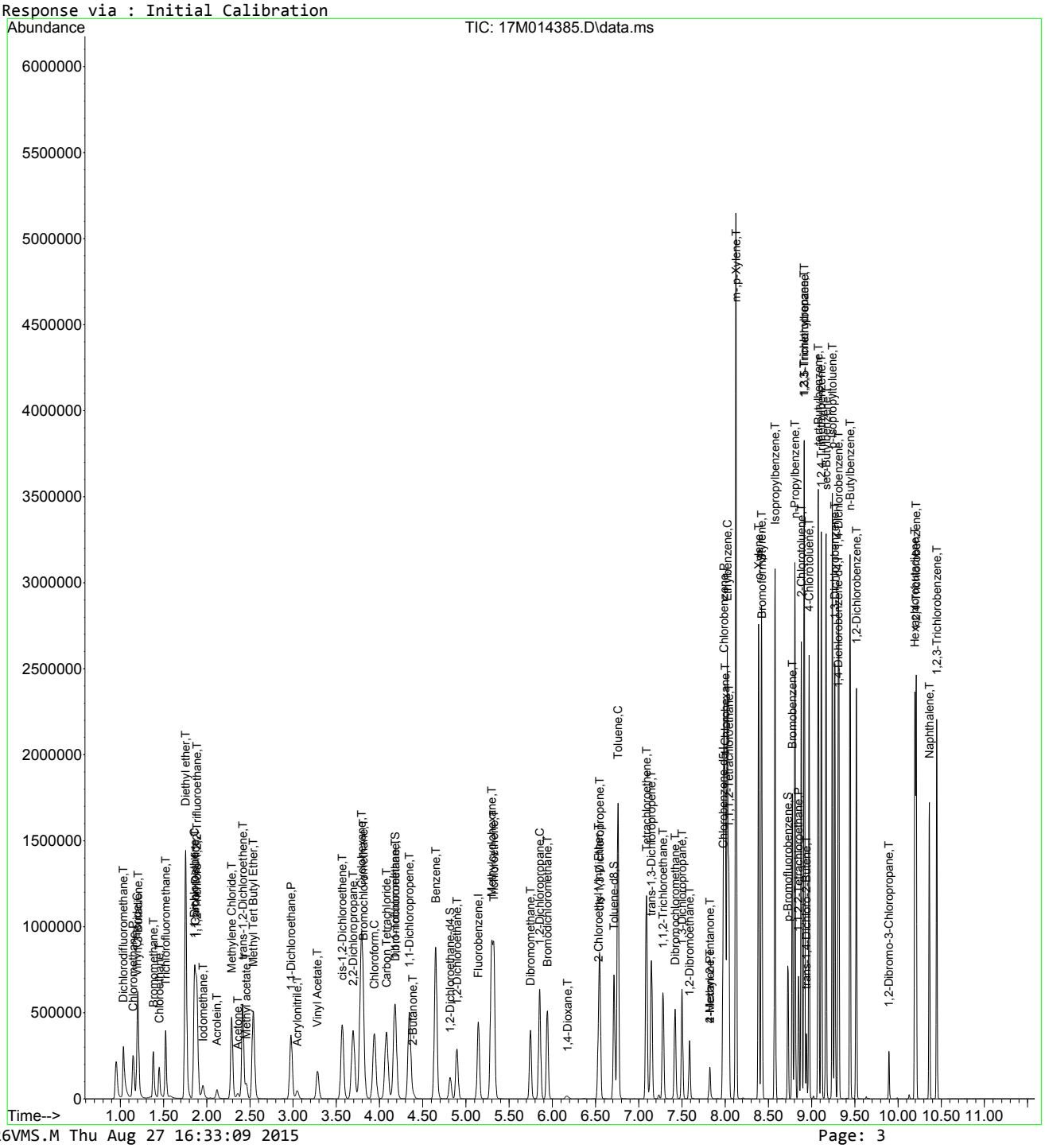
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,1,2-Trichloroethane	7.281	97	158477	45.3957	ug/L		99
51) Dibromochloromethane	7.420	129	222126	48.2606	ug/L		100
52) 1,3-Dichloropropane	7.501	76	264021	48.6345	ug/L		94
53) 1,2-Dibromoethane	7.588	107	160857	45.5667	ug/L		100
54) 2-Hexanone	7.822	43	83126	46.9766	ug/L		98
55) Chlorobenzene	7.987	112	663595	53.4559	ug/L		99
56) 1-Chlorohexane	8.002	69	62051	55.2611	ug/L		89
57) Ethylbenzene	8.025	106	347835	52.1890	ug/L		96
58) 1,1,1,2-Tetrachloroethane	8.042	131	228418	48.9038	ug/L		100
59) m-,p-Xylene	8.126	106	857229	108.3323	ug/L		99
60) o-Xylene	8.387	106	417890	52.5393	ug/L		98
61) Styrene	8.421	104	652237	50.7365	ug/L		100
62) Bromoform	8.424	173	153350	49.5314	ug/L		99
63) Isopropylbenzene	8.578	105	1103960	53.7267	ug/L		99
65) 1,3,5-Trimethylbenzene	8.917	105	933181	52.7866	ug/L		99
67) Bromobenzene	8.778	156	282280	47.0844	ug/L		98
68) n-Propylbenzene	8.807	91	1244525	55.3294	ug/L		99
69) 1,1,2,2-Tetrachloroethane	8.850	83	180605	45.0232	ug/L		100
70) 2-Chlorotoluene	8.882	91	748632	53.0413	ug/L		99
71) 1,2,3-Trichloropropane	8.914	110	47713	43.0382	ug/L		93
72) trans-1,4-Dichloro-2-B...	8.940	53	35776	48.4868	ug/L	#	93
73) 1,2,4-Trimethylbenzene	9.113	105	902723	51.4151	ug/L		100
74) 4-Chlorotoluene	8.972	91	757733	53.5867	ug/L		99
75) tert-Butylbenzene	9.079	134	182117	52.3519	ug/L		99
76) sec-Butylbenzene	9.168	105	1179475	54.6365	ug/L		99
77) p-Isopropyltoluene	9.241	119	989659	52.8981	ug/L		99
78) 1,3-Dichlorobenzene	9.270	146	533934	51.5454	ug/L		99
79) 1,4-Dichlorobenzene	9.313	146	511005	48.5995	ug/L		100
80) n-Butylbenzene	9.446	91	870074	55.0394	ug/L		99
81) 1,2-Dichlorobenzene	9.519	146	505984	49.6463	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.895	75	31877	44.9251	ug/L		98
83) Hexachlorobutadiene	10.196	225	243638	53.3204	ug/L		100
84) 1,2,4-Trichlorobenzene	10.211	180	389904	51.7406	ug/L		100
85) Naphthalene	10.364	128	645054	45.3145	ug/L		100
86) 1,2,3-Trichlorobenzene	10.448	180	351094	48.9655	ug/L		100

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\082115\
Data File : 17M014385.D
Acq On : 21 Aug 2015 13:07
Operator : ADC
Sample : WG534785-12 50ug/L ALTSRC
Misc : 1,1 STD71945
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 27 16:33:08 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
Response via : Initial Calibration



826VMS.M Thu Aug 27 16:33:09 2015 Page: 3

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\082115\
Data File : 17M014385.D
Acq On : 21 Aug 2015 13:07
Operator : ADC
Sample : WG534785-12 50ug/L ALTSRC
Misc : 1,1 STD71945
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 21 13:35:38 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
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	87	0.000
2	T	Dichlorodifluoromethane	50.000	58.590	-17.2	97	0.000
3	P	Chloromethane	50.000	58.594	-17.2	104	0.000
4	C	Vinyl Chloride	50.000	58.033	-16.1#	103	0.000
5	T	1,3-Butadiene	50.000	37.186	25.6#	66	0.000
6	T	Bromomethane	50.000	51.145	-2.3	123	0.000
7	T	Chloroethane	50.000	49.752	0.5	92	0.000
8	T	Trichlorofluoromethane	50.000	29.973	40.1#	53	-0.014
9	T	Diethyl ether	50.000	244.335	-388.7#	466	0.000
10	C	1,1-Dichloroethene	50.000	50.761	-1.5#	91	-0.014
11	T	Carbon Disulfide	50.000	26.810	46.4#	49	-0.015
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	50.469	-0.9	88	-0.014
13	T	Iodomethane	50.000	11.397	77.2#	19	0.000
14	T	Acrolein	50.000	87.042	-74.1#	179	0.000
15	T	Methylene Chloride	50.000	47.173	5.7	89	0.000
16	T	Acetone	50.000	50.279	-0.6	102	0.018
17	T	trans-1,2-Dichloroethene	50.000	49.903	0.2	91	0.000
18	T	Methyl Acetate	50.000	39.697	20.6	83	0.000
19	T	Methyl Tert Butyl Ether	50.000	51.679	-3.4	100	0.000
20	P	1,1-Dichloroethane	50.000	53.297	-6.6	96	0.000
21	T	Acrylonitrile	50.000	45.498	9.0	88	0.000
22	T	Vinyl Acetate	50.000	101.805	-103.6#	176	0.000
23	T	cis-1,2-Dichloroethene	50.000	49.311	1.4	91	0.000
24	T	2,2-Dichloropropane	50.000	55.686	-11.4	94	0.000
25	T	Cyclohexane	50.000	53.413	-6.8	96	0.000
26	T	Bromochloromethane	50.000	49.668	0.7	91	0.000
27	C	Chloroform	50.000	50.945	-1.9#	97	0.000
28	T	Carbon Tetrachloride	50.000	53.597	-7.2	94	0.000
29	S	Dibromofluoromethane	25.000	25.684	-2.7	86	0.000
30	T	1,1,1-Trichloroethane	50.000	52.500	-5.0	96	0.000
31	T	1,1-Dichloropropene	50.000	52.611	-5.2	94	0.000
32	T	2-Butanone	50.000	48.271	3.5	98	0.014
33	T	Benzene	50.000	51.740	-3.5	94	0.000
34	S	1,2-Dichloroethane-d4	25.000	25.272	-1.1	88	0.000
35	T	1,2-Dichloroethane	50.000	49.038	1.9	92	0.000
36	T	Methylcyclohexane	50.000	52.181	-4.4	93	0.000
37	T	Trichloroethene	50.000	49.557	0.9	92	0.000
38	T	Dibromomethane	50.000	48.582	2.8	90	0.000
39	C	1,2-Dichloropropane	50.000	52.849	-5.7#	97	0.000
40	T	Bromodichloromethane	50.000	49.468	1.1	90	0.000
41	T	1,4-Dioxane	100.000	404.156	-304.2#	399	0.023
42	T	2-Chloroethyl Vinyl Ether	50.000	54.952	-9.9	101	0.000
43	T	cis-1,3-Dichloropropene	50.000	53.287	-6.6	95	0.000
44	T	4-Methyl-2-Pentanone	50.000	44.399	11.2	89	0.000
45	T	trans-1,3-Dichloropropene	50.000	48.059	3.9	87	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	84	0.000
47	S	Toluene-d8	25.000	27.034	-8.1	87	0.000
48	C	Toluene	50.000	50.735	-1.5#	92	0.000
49	T	Tetrachloroethene	50.000	53.775	-7.5	92	0.000
50	T	1,1,2-Trichloroethane	50.000	45.396	9.2	84	0.000
51	T	Dibromochloromethane	50.000	48.261	3.5	84	0.000
52	T	1,3-Dichloropropane	50.000	48.635	2.7	89	0.000
53	T	1,2-Dibromoethane	50.000	45.567	8.9	84	0.000
54	T	2-Hexanone	50.000	46.977	6.0	92	0.000
55	P	Chlorobenzene	50.000	53.456	-6.9	92	0.000

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\082115\
Data File : 17M014385.D
Acq On : 21 Aug 2015 13:07
Operator : ADC
Sample : WG534785-12 50ug/L ALTSRC
Misc : 1,1 STD71945
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 21 13:35:38 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 20 16:10:41 2015
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	1-Chlorohexane	50.000	55.261	-10.5	95	0.000
57	C	Ethylbenzene	50.000	52.189	-4.4#	89	0.000
58	T	1,1,1,2-Tetrachloroethane	50.000	48.904	2.2	84	0.000
59	T	m-,p-Xylene	100.000	108.332	-8.3	91	0.000
60	T	o-Xylene	50.000	52.539	-5.1	90	0.000
61	T	Styrene	50.000	50.736	-1.5	86	0.000
62	P	Bromoform	50.000	49.531	0.9	86	0.000
63	T	Isopropylbenzene	50.000	53.727	-7.5	91	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	83	0.000
65	T	1,3,5-Trimethylbenzene	50.000	52.787	-5.6	87	0.000
66	S	p-Bromofluorobenzene	25.000	25.809	-3.2	81	0.000
67	T	Bromobenzene	50.000	47.084	5.8	84	0.000
68	T	n-Propylbenzene	50.000	55.329	-10.7	90	0.000
69	P	1,1,2,2-Tetrachloroethane	50.000	45.023	10.0	82	0.000
70	T	2-Chlorotoluene	50.000	53.041	-6.1	89	0.000
71	T	1,2,3-Trichloropropane	50.000	43.038	13.9	79	0.000
72	T	trans-1,4-Dichloro-2-butene	50.000	48.487	3.0	79	0.000
73	T	1,2,4-Trimethylbenzene	50.000	51.415	-2.8	85	0.000
74	T	4-Chlorotoluene	50.000	53.587	-7.2	90	0.000
75	T	tert-Butylbenzene	50.000	52.352	-4.7	89	0.000
76	T	sec-Butylbenzene	50.000	54.636	-9.3	89	0.000
77	T	p-Isopropyltoluene	50.000	52.898	-5.8	84	0.000
78	T	1,3-Dichlorobenzene	50.000	51.545	-3.1	87	0.000
79	T	1,4-Dichlorobenzene	50.000	48.600	2.8	84	0.000
80	T	n-Butylbenzene	50.000	55.039	-10.1	86	0.000
81	T	1,2-Dichlorobenzene	50.000	49.646	0.7	87	0.000
82	T	1,2-Dibromo-3-Chloropropane	50.000	44.925	10.2	81	0.000
83	T	Hexachlorobutadiene	50.000	53.320	-6.6	89	0.000
84	T	1,2,4-Trichlorobenzene	50.000	51.741	-3.5	88	0.000
85	T	Naphthalene	50.000	45.314	9.4	82	0.000
86	T	1,2,3-Trichlorobenzene	50.000	48.965	2.1	86	-0.012

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407828.D Vial: 2
Acq On : 5 Oct 2015 11:49 Operator: TMB
Sample : WG540826-02 5ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 11:56:55 2015 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

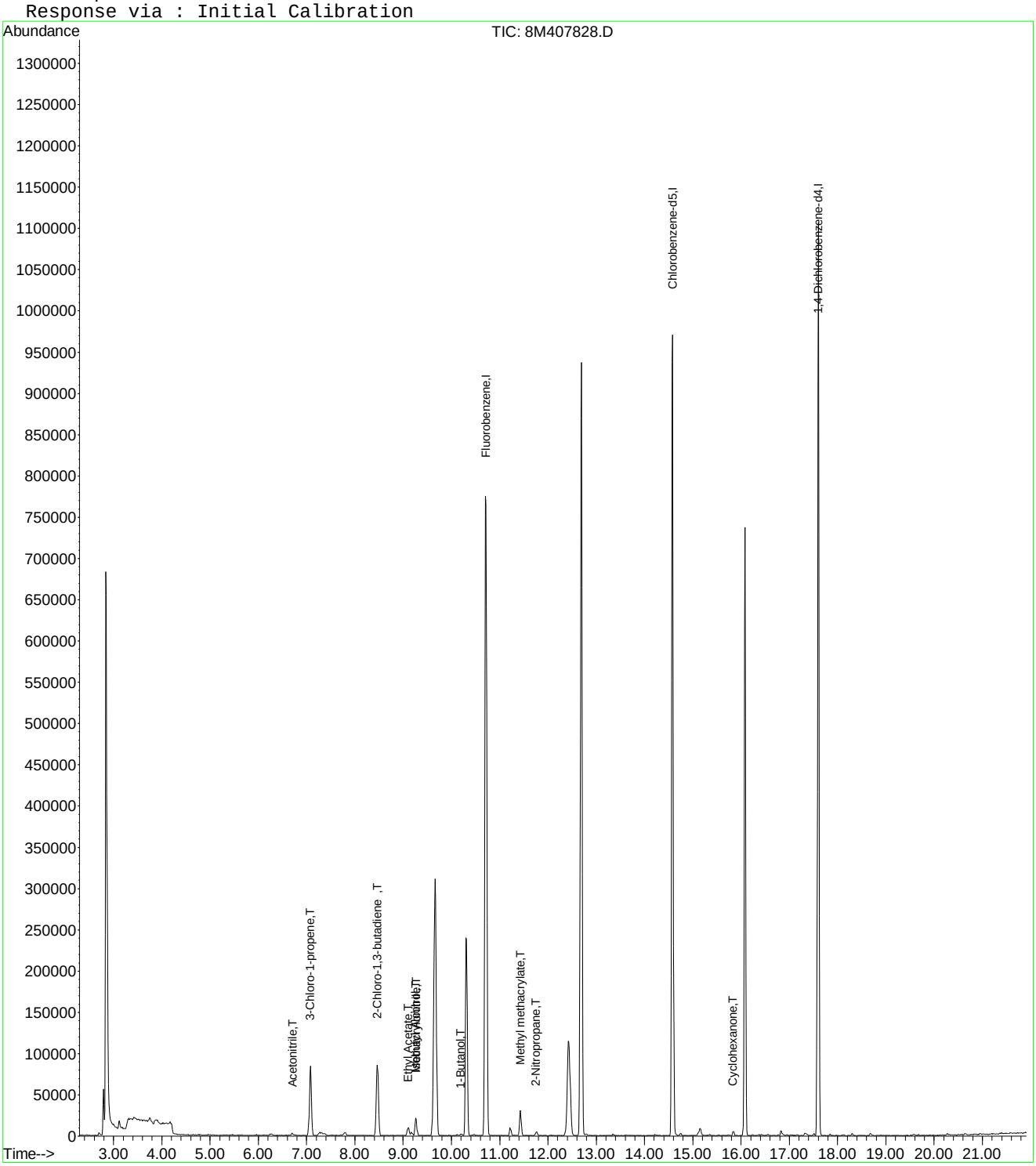
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.72	96	928093	25.00	ug/L		0.00
11) Chlorobenzene-d5	14.58	117	670481	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	347120	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.71	41	3724	5.2139	ug/L		81
3) 3-Chloro-1-propene	7.08	41	87895	5.0600	ug/L		95
4) 2-Chloro-1,3-butadiene	8.46	53	83096	4.6491	ug/L		97
5) Ethyl Acetate	9.11	43	19297	4.0869	ug/L		95
6) Methacrylonitrile	9.27	67	8508	4.1055	ug/L		97
7) Isobutyl Alcohol	9.26	43	1318	6.8122	ug/L	#	56
8) 1-Butanol	10.19	56	1930	20.2377	ug/L	#	64
9) Methyl methacrylate	11.43	41	22250	3.8908	ug/L		96
10) 2-Nitropropane	11.75	43	2454	2.5566	ug/L		66
13) Cyclohexanone	15.83	55	2773	3.7471	ug/L	#	43

(#) = qualifier out of range (m) = manual integration
8M407828.D A9FOOWTR.M Tue Oct 06 11:56:56 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407828.D Vial: 2
Acq On : 5 Oct 2015 11:49 Operator: TMB
Sample : WG540826-02 5ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 11:56 2015 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\100515\8M407828.D Vial: 2
Acq On : 5 Oct 2015 11:49 Operator: TMB
Sample : WG540826-02 5ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:54:01 2015
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	100	0.00
2	T	Acetonitrile	5.0000	5.2139	-4.3	100	0.01
3	T	3-Chloro-1-propene	5.0000	5.0600	-1.2	100	0.00
4	T	2-Chloro-1,3-butadiene	5.0000	4.6491	7.0	100	0.00
5	T	Ethyl Acetate	5.0000	4.0869	18.3	100	0.01
6	T	Methacrylonitrile	5.0000	4.1055	17.9	100	0.01
7	T	Isobutyl Alcohol	-1.0000	6.8122	0.0	100	-0.01
8	T	1-Butanol	-1.0000	20.2377	0.0	100	0.00
9	T	Methyl methacrylate	5.0000	3.8908	22.2	100	0.00
10	T	2-Nitropropane	-1.0000	2.5566	0.0	0	-0.01
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
13	T	Cyclohexanone	-1.0000	3.7471	0.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M407828.D A9FOOWTR.M Tue Oct 06 11:54:24 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407829.D Vial: 3
Acq On : 5 Oct 2015 12:17 Operator: TMB
Sample : WG540826-03 20ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 11:56:56 2015 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

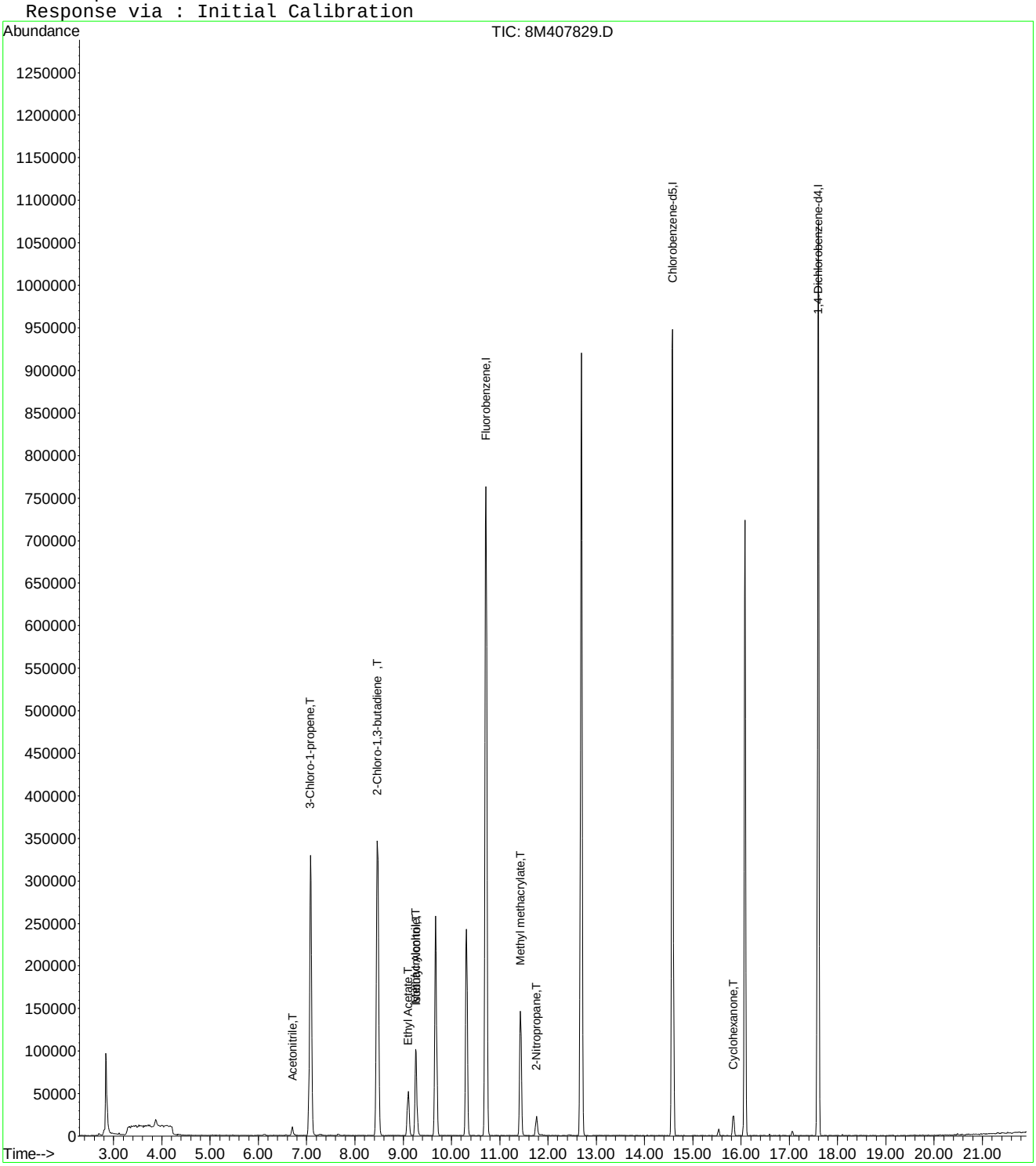
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	903673	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.58	117	657140	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	345767	25.00	ug/L	0.00
Target Compounds						Qvalue
2) Acetonitrile	6.71	41	14085	20.2529	ug/L	98
3) 3-Chloro-1-propene	7.08	41	349549	20.6667	ug/L	100
4) 2-Chloro-1,3-butadiene	8.46	53	347796	19.9846	ug/L	100
5) Ethyl Acetate	9.10	43	93237	20.2805	ug/L	97
6) Methacrylonitrile	9.26	67	40077	19.8617	ug/L	100
7) Isobutyl Alcohol	9.27	43	6436	34.1640	ug/L #	94
9) Methyl methacrylate	11.43	41	106029	19.0419	ug/L	97
10) 2-Nitropropane	11.76	43	12836	13.7339	ug/L	86
13) Cyclohexanone	15.84	55	14620	19.8329	ug/L	92

(#) = qualifier out of range (m) = manual integration
8M407829.D A9FOOWTR.M Tue Oct 06 11:56:56 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407829.D Vial: 3
Acq On : 5 Oct 2015 12:17 Operator: TMB
Sample : WG540826-03 20ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 11:56 2015 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\100515\8M407829.D Vial: 3
Acq On : 5 Oct 2015 12:17 Operator: TMB
Sample : WG540826-03 20ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:54:01 2015
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	100	0.00
2	T	Acetonitrile	20.0000	20.2529	-1.3	100	0.00
3	T	3-Chloro-1-propene	20.0000	20.6667	-3.3	100	0.00
4	T	2-Chloro-1,3-butadiene	20.0000	19.9846	0.1	100	0.00
5	T	Ethyl Acetate	20.0000	20.2805	-1.4	100	0.00
6	T	Methacrylonitrile	20.0000	19.8618	0.7	100	0.00
7	T	Isobutyl Alcohol	-1.0000	34.1640	0.0	100	0.00
8	T	1-Butanol	-1.0000	0.0000	0.0	0	-10.19#
9	T	Methyl methacrylate	20.0000	19.0419	4.8	100	0.00
10	T	2-Nitropropane	-1.0000	13.7339	0.0	0	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
13	T	Cyclohexanone	-1.0000	19.8329	0.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M407829.D A9FOOWTR.M Tue Oct 06 11:54:38 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\100515\8M407830.D Vial: 4
Acq On : 5 Oct 2015 12:51 Operator: TMB
Sample : WG540826-04 50ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 05 13:13:37 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

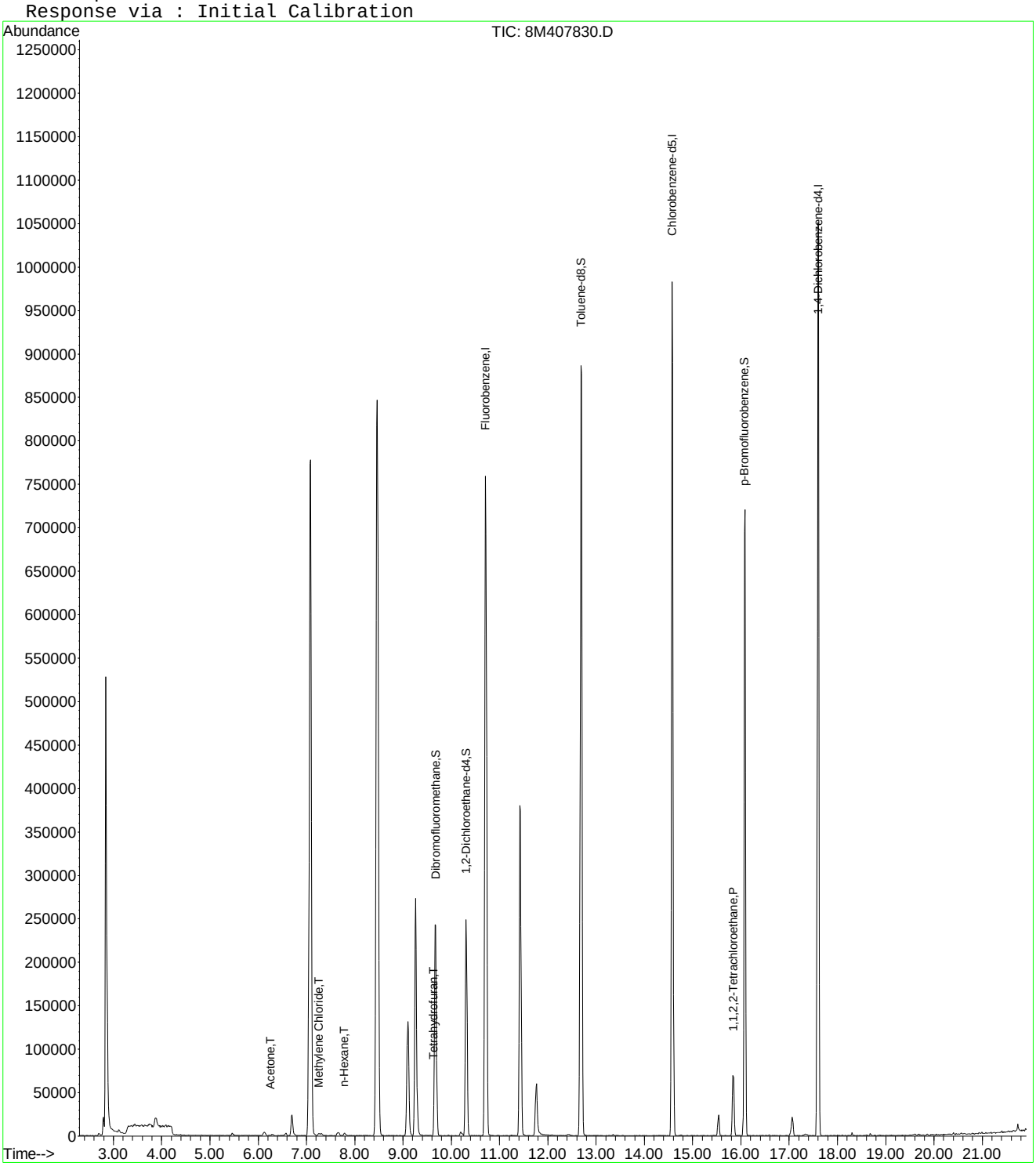
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	883897	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	665815	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	354078	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.68	111	212038	25.2054	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.84%			
43) 1,2-Dichloroethane-d4	10.31	65	214919	25.0573	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 100.24%			
58) Toluene-d8	12.69	98	784209	25.3851	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.56%			
80) p-Bromofluorobenzene	16.07	95	309869	25.0818	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.32%			
Target Compounds						Qvalue
13) Acetone	6.26	43	674	0.5137	ug/L #	48
19) Methylene Chloride	7.26	84	1894	0.2128	ug/L	67
24) n-Hexane	7.79	57	2250	0.1674	ug/L	96
36) Tetrahydrofuran	9.64	42	735	0.4954	ug/L #	40
79) 1,1,2,2-Tetrachloroethane	15.85	83	3323	0.5087	ug/L #	26

(#) = qualifier out of range (m) = manual integration
8M407830.D 8260WT.M Mon Oct 05 13:13:38 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\100515\8M407830.D Vial: 4
Acq On : 5 Oct 2015 12:51 Operator: TMB
Sample : WG540826-04 50ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 5 13:13 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407830.D Vial: 4
Acq On : 5 Oct 2015 12:51 Operator: TMB
Sample : WG540826-04 50ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 11:56:57 2015 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

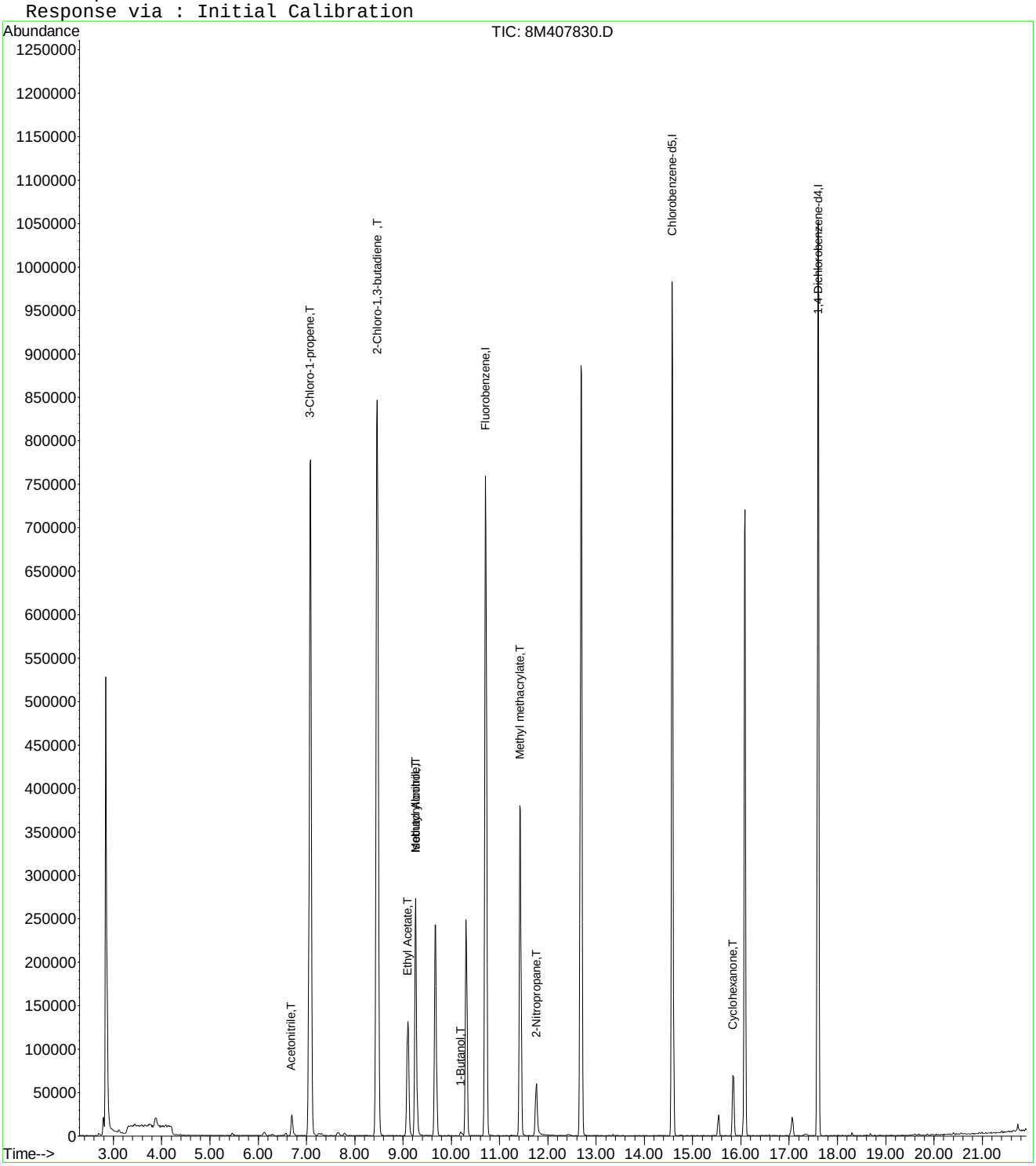
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	883897	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.58	117	665815	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	354078	25.00	ug/L	0.00
Target Compounds						Qvalue
2) Acetonitrile	6.69	41	35080	51.5703	ug/L	99
3) 3-Chloro-1-propene	7.07	41	841804	50.8844	ug/L	100
4) 2-Chloro-1,3-butadiene	8.47	53	851495	50.0222	ug/L	100
5) Ethyl Acetate	9.10	43	233139	51.8459	ug/L	97
6) Methacrylonitrile	9.26	67	101702	51.5301	ug/L	97
7) Isobutyl Alcohol	9.26	43	17567	95.3366	ug/L	98
8) 1-Butanol	10.19	56	3729	41.0570	ug/L	92
9) Methyl methacrylate	11.42	41	280126	51.4337	ug/L	98
10) 2-Nitropropane	11.76	43	37061	40.5407	ug/L	95
13) Cyclohexanone	15.84	55	40139	53.1730	ug/L	88

(#) = qualifier out of range (m) = manual integration
8M407830.D A9FOOWTR.M Tue Oct 06 11:56:57 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407830.D Vial: 4
Acq On : 5 Oct 2015 12:51 Operator: TMB
Sample : WG540826-04 50ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 11:56 2015 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\100515\8M407830.D Vial: 4
Acq On : 5 Oct 2015 12:51 Operator: TMB
Sample : WG540826-04 50ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:54:01 2015
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	100	0.00
2	T	Acetonitrile	50.0000	51.5703	-3.1	100	0.00
3	T	3-Chloro-1-propene	50.0000	50.8844	-1.8	100	0.00
4	T	2-Chloro-1,3-butadiene	50.0000	50.0222	-0.0	100	0.00
5	T	Ethyl Acetate	50.0000	51.8459	-3.7	100	0.00
6	T	Methacrylonitrile	50.0000	51.5301	-3.1	100	0.00
7	T	Isobutyl Alcohol	100.0000	95.3366	4.7	100	0.00
8	T	1-Butanol	50.0000	41.0570	17.9	100	0.00
9	T	Methyl methacrylate	50.0000	51.4337	-2.9	100	0.00
10	T	2-Nitropropane	50.0000	40.5407	18.9	100	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
13	T	Cyclohexanone	50.0000	53.1730	-6.3	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M407830.D A9FOOWTR.M Tue Oct 06 11:54:56 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\100515\8M407831.D Vial: 5
Acq On : 5 Oct 2015 13:20 Operator: TMB
Sample : WG540826-05 100ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 05 13:42:04 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

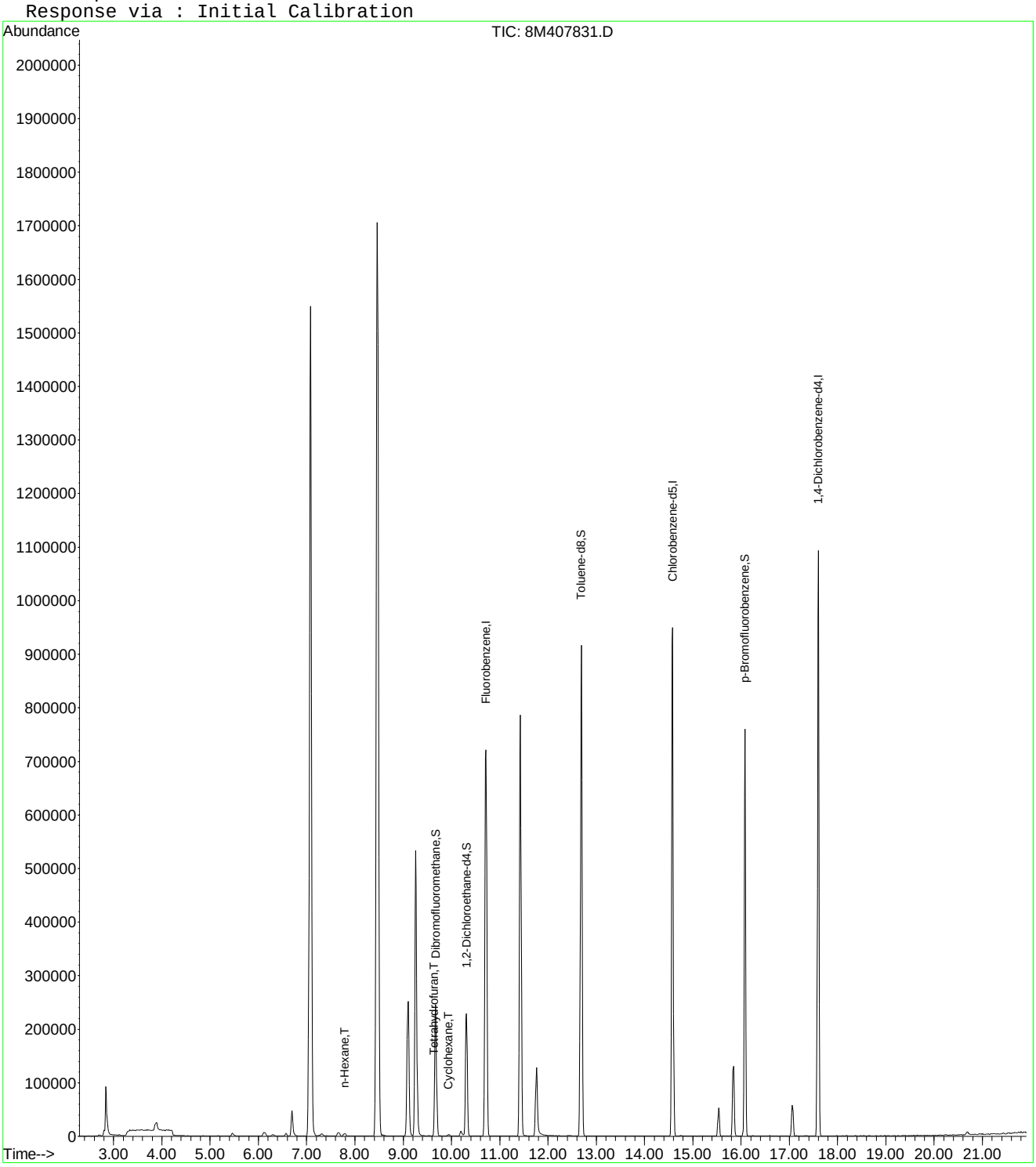
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.72	96	866178	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	661111	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	356230	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.67	111	202803	24.6008 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.40%		
43) 1,2-Dichloroethane-d4	10.31	65	203632	24.2270 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 96.92%		
58) Toluene-d8	12.69	98	789106	25.7254 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.92%		
80) p-Bromofluorobenzene	16.08	95	308907	24.8529 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.40%		
Target Compounds					Qvalue
24) n-Hexane	7.79	57	3351	0.2544 ug/L	79
36) Tetrahydrofuran	9.64	42	639	0.4395 ug/L #	40
39) Cyclohexane	9.94	56	2379	0.1385 ug/L #	66

(#) = qualifier out of range (m) = manual integration
8M407831.D 8260WT.M Mon Oct 05 13:42:05 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\100515\8M407831.D Vial: 5
Acq On : 5 Oct 2015 13:20 Operator: TMB
Sample : WG540826-05 100ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 5 13:42 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration



8M407831.D 8260WT.M Mon Oct 05 13:42:06 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407831.D Vial: 5
Acq On : 5 Oct 2015 13:20 Operator: TMB
Sample : WG540826-05 100ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 11:56:58 2015 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

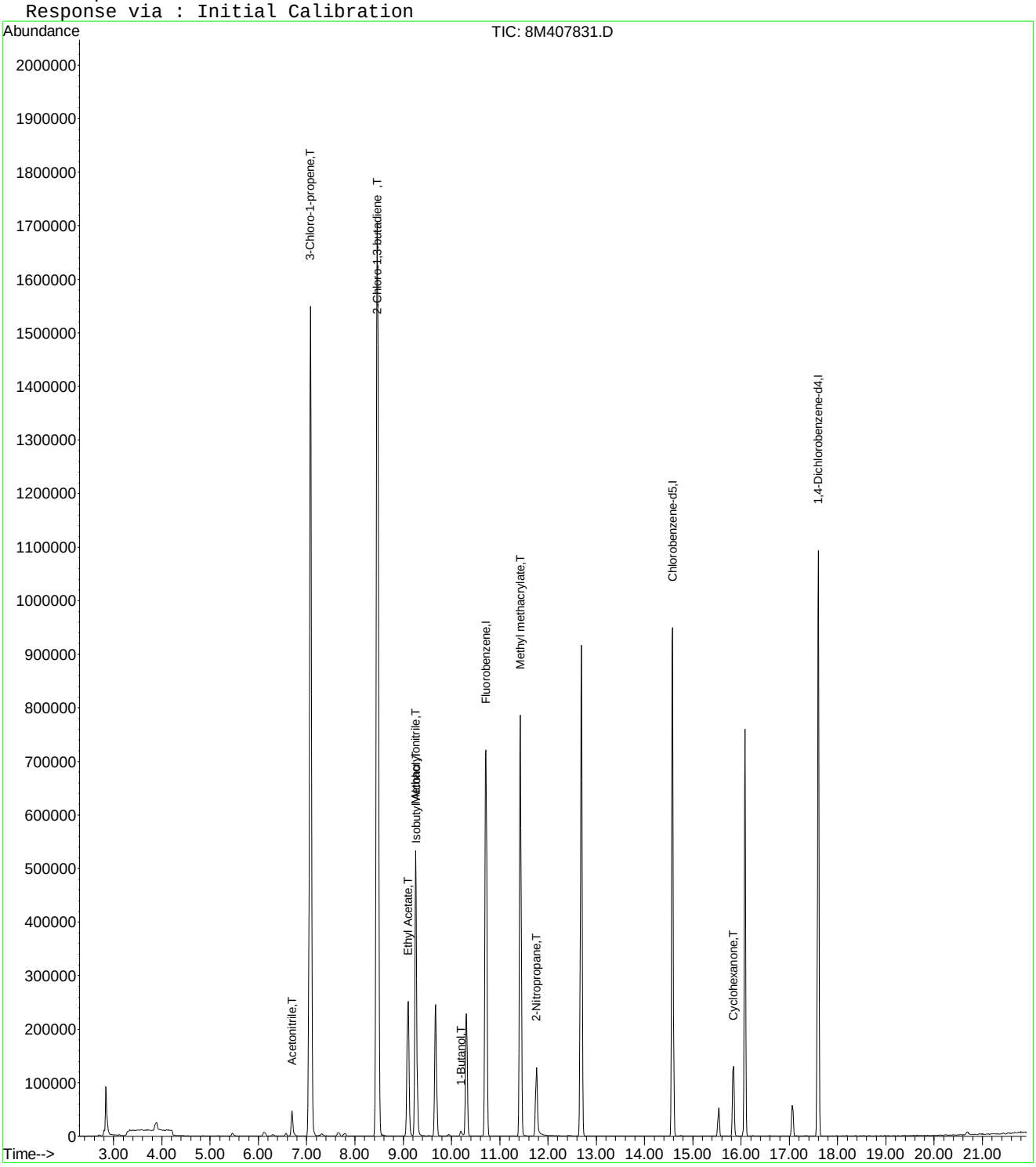
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	866178	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.58	117	661111	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	356230	25.00	ug/L	0.00
Target Compounds						Qvalue
2) Acetonitrile	6.70	41	67393	101.0995	ug/L	100
3) 3-Chloro-1-propene	7.08	41	1633129	100.7368	ug/L	100
4) 2-Chloro-1,3-butadiene	8.46	53	1684207	100.9649	ug/L	99
5) Ethyl Acetate	9.10	43	453445	102.9007	ug/L	99
6) Methacrylonitrile	9.26	67	196843	101.7762	ug/L	95
7) Isobutyl Alcohol	9.27	43	37534	207.8650	ug/L	92
8) 1-Butanol	10.20	56	8253	92.7258	ug/L	78
9) Methyl methacrylate	11.43	41	562497	105.3924	ug/L	98
10) 2-Nitropropane	11.76	43	77739	86.7776	ug/L	89
13) Cyclohexanone	15.84	55	74077	97.5385	ug/L	84

(#) = qualifier out of range (m) = manual integration
8M407831.D A9FOOWTR.M Tue Oct 06 11:56:58 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407831.D Vial: 5
Acq On : 5 Oct 2015 13:20 Operator: TMB
Sample : WG540826-05 100ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 11:56 2015 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration



8M407831.D A9FOOWTR.M Tue Oct 06 11:56:58 2015 Page 2

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\100515\8M407831.D Vial: 5
Acq On : 5 Oct 2015 13:20 Operator: TMB
Sample : WG540826-05 100ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:54:01 2015
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	100	0.00
2	T	Acetonitrile	100.0000	101.0995	-1.1	100	0.00
3	T	3-Chloro-1-propene	100.0000	100.7368	-0.7	100	0.00
4	T	2-Chloro-1,3-butadiene	100.0000	100.9649	-1.0	100	0.00
5	T	Ethyl Acetate	100.0000	102.9007	-2.9	100	0.00
6	T	Methacrylonitrile	100.0000	101.7762	-1.8	100	0.00
7	T	Isobutyl Alcohol	200.0000	207.8650	-3.9	100	0.00
8	T	1-Butanol	100.0000	92.7258	7.3	100	0.00
9	T	Methyl methacrylate	100.0000	105.3924	-5.4	100	0.00
10	T	2-Nitropropane	100.0000	86.7776	13.2	100	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
13	T	Cyclohexanone	100.0000	97.5386	2.5	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M407831.D A9FOOWTR.M Tue Oct 06 11:55:12 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\100515\8M407832.D Vial: 6
Acq On : 5 Oct 2015 13:49 Operator: TMB
Sample : WG540826-06 200ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 05 14:10:58 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

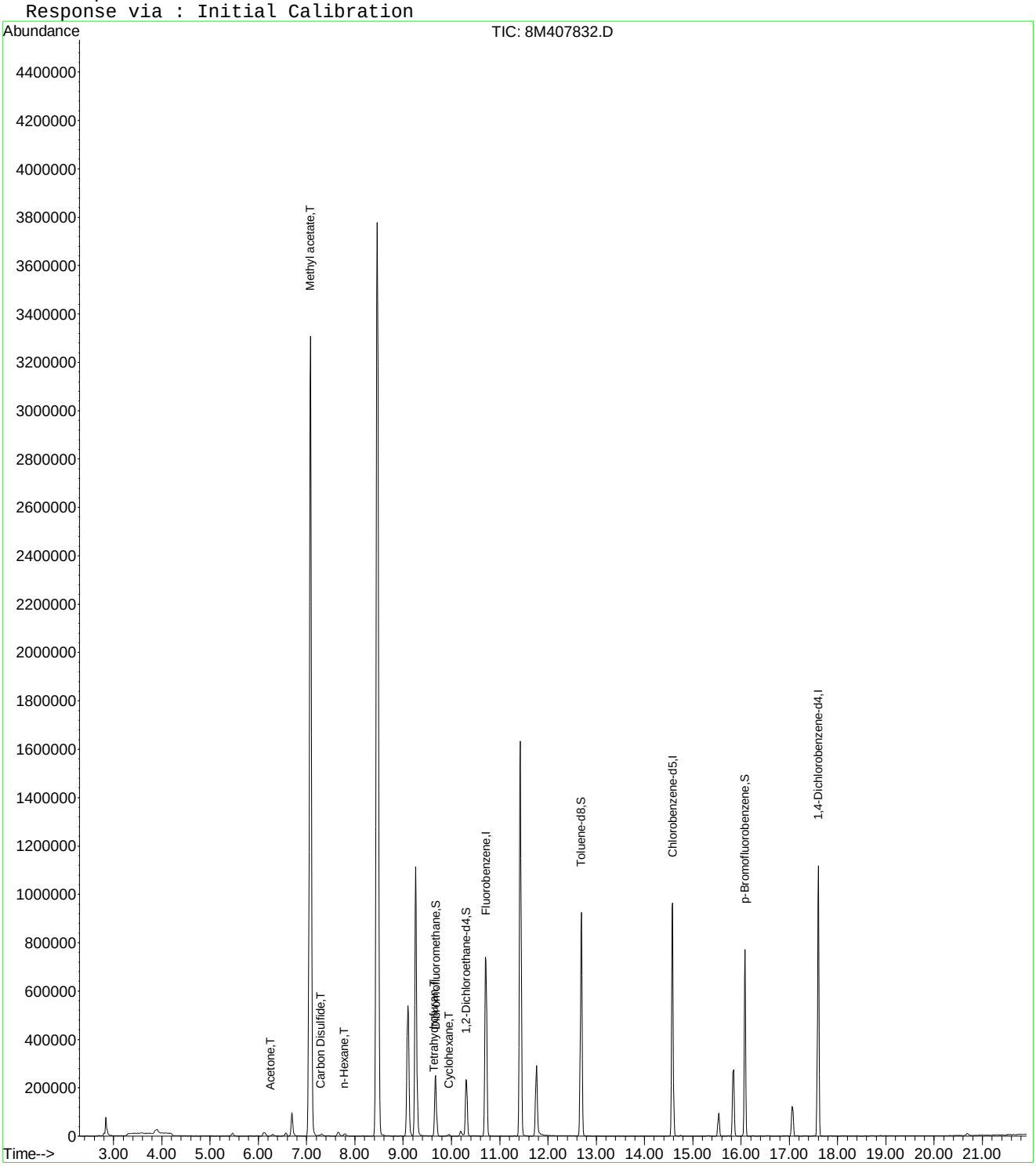
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.72	96	897754	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	673480	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	363907	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.67	111	208738	24.4301 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 97.72%		
43) 1,2-Dichloroethane-d4	10.30	65	213605	24.5197 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 98.08%		
58) Toluene-d8	12.69	98	807841	25.8525 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.40%		
80) p-Bromofluorobenzene	16.08	95	324104	25.5255 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.12%		
Target Compounds					Qvalue
13) Acetone	6.25	43	677	0.5081 ug/L #	48
18) Methyl acetate	7.08	43	1823	0.3618 ug/L #	1
20) Carbon Disulfide	7.30	76	5054	0.1712 ug/L #	78
24) n-Hexane	7.78	57	7743	0.5671 ug/L	88
36) Tetrahydrofuran	9.64	42	1466	0.9728 ug/L #	40
39) Cyclohexane	9.95	56	4715	0.2647 ug/L	84

(#) = qualifier out of range (m) = manual integration
8M407832.D 8260WT.M Mon Oct 05 14:10:59 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\100515\8M407832.D Vial: 6
Acq On : 5 Oct 2015 13:49 Operator: TMB
Sample : WG540826-06 200ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 5 14:10 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407832.D Vial: 6
Acq On : 5 Oct 2015 13:49 Operator: TMB
Sample : WG540826-06 200ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 11:56:58 2015 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

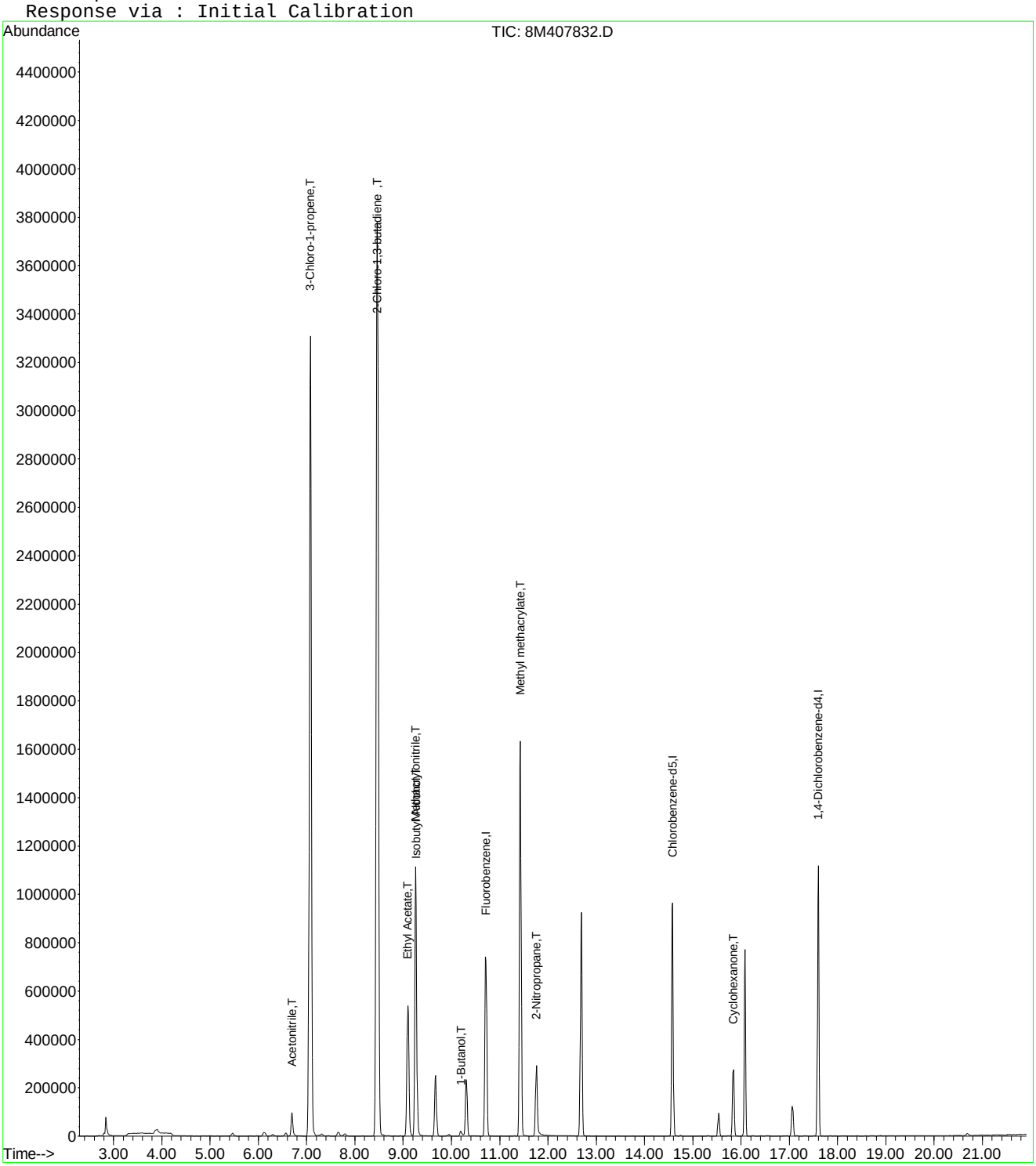
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	897754	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.58	117	673480	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	363907	25.00	ug/L	0.00
Target Compounds						Qvalue
2) Acetonitrile	6.70	41	138277	200.1400	ug/L	97
3) 3-Chloro-1-propene	7.08	41	3475078	206.8151	ug/L	99
4) 2-Chloro-1,3-butadiene	8.46	53	3691199	213.4973	ug/L	98
5) Ethyl Acetate	9.09	43	949825	207.9635	ug/L	98
6) Methacrylonitrile	9.26	67	412747	205.9018	ug/L	95
7) Isobutyl Alcohol	9.27	43	71985	384.6346	ug/L	94
8) 1-Butanol	10.20	56	18764	203.4062	ug/L	78
9) Methyl methacrylate	11.43	41	1165248	210.6479	ug/L	99
10) 2-Nitropropane	11.76	43	181242	195.1989	ug/L	92
13) Cyclohexanone	15.84	55	156208	201.3429	ug/L	89

(#) = qualifier out of range (m) = manual integration
8M407832.D A9FOOWTR.M Tue Oct 06 11:56:59 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407832.D Vial: 6
Acq On : 5 Oct 2015 13:49 Operator: TMB
Sample : WG540826-06 200ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 11:56 2015 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\100515\8M407833.D Vial: 7
Acq On : 5 Oct 2015 14:17 Operator: TMB
Sample : WG540826-07 300ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 05 14:39:56 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

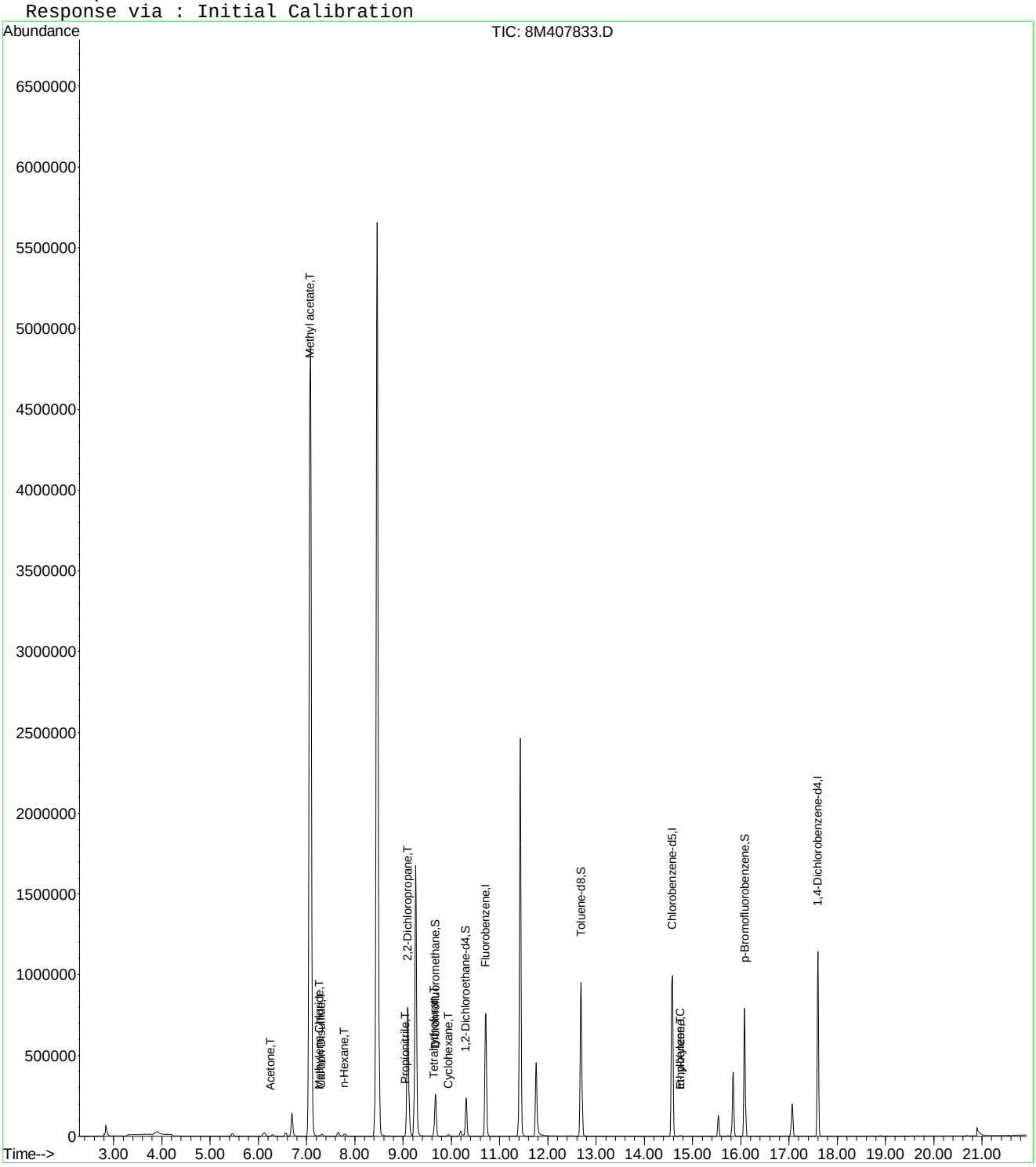
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	914795	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	689423	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	367388	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	213426	24.5135	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.04%			
43) 1,2-Dichloroethane-d4	10.30	65	216408	24.3787	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 97.52%			
58) Toluene-d8	12.69	98	818846	25.5987	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.40%			
80) p-Bromofluorobenzene	16.08	95	327784	25.5707	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.28%			
Target Compounds						Qvalue
13) Acetone	6.25	43	1107	0.8153	ug/L #	48
18) Methyl acetate	7.07	43	3926	0.7646	ug/L #	1
19) Methylene Chloride	7.26	84	1197	0.1300	ug/L	55
20) Carbon Disulfide	7.31	76	6659	0.2214	ug/L #	86
24) n-Hexane	7.78	57	11874	0.8534	ug/L	97
30) Propionitrile	9.05	54	208	0.3030	ug/L #	1
31) 2,2-Dichloropropane	9.09	77	2023	0.1353	ug/L #	42
36) Tetrahydrofuran	9.64	42	1301	0.8472	ug/L #	40
39) Cyclohexane	9.94	56	6598	0.3636	ug/L	94
72) Ethylbenzene	14.75	106	2422	0.1584	ug/L	54
73) m-,p-Xylene	14.75	106	2422	0.1381	ug/L	82

(#) = qualifier out of range (m) = manual integration
8M407833.D 8260WT.M Mon Oct 05 14:39:57 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\100515\8M407833.D Vial: 7
Acq On : 5 Oct 2015 14:17 Operator: TMB
Sample : WG540826-07 300ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 5 14:39 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407833.D Vial: 7
Acq On : 5 Oct 2015 14:17 Operator: TMB
Sample : WG540826-07 300ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 11:56:59 2015 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

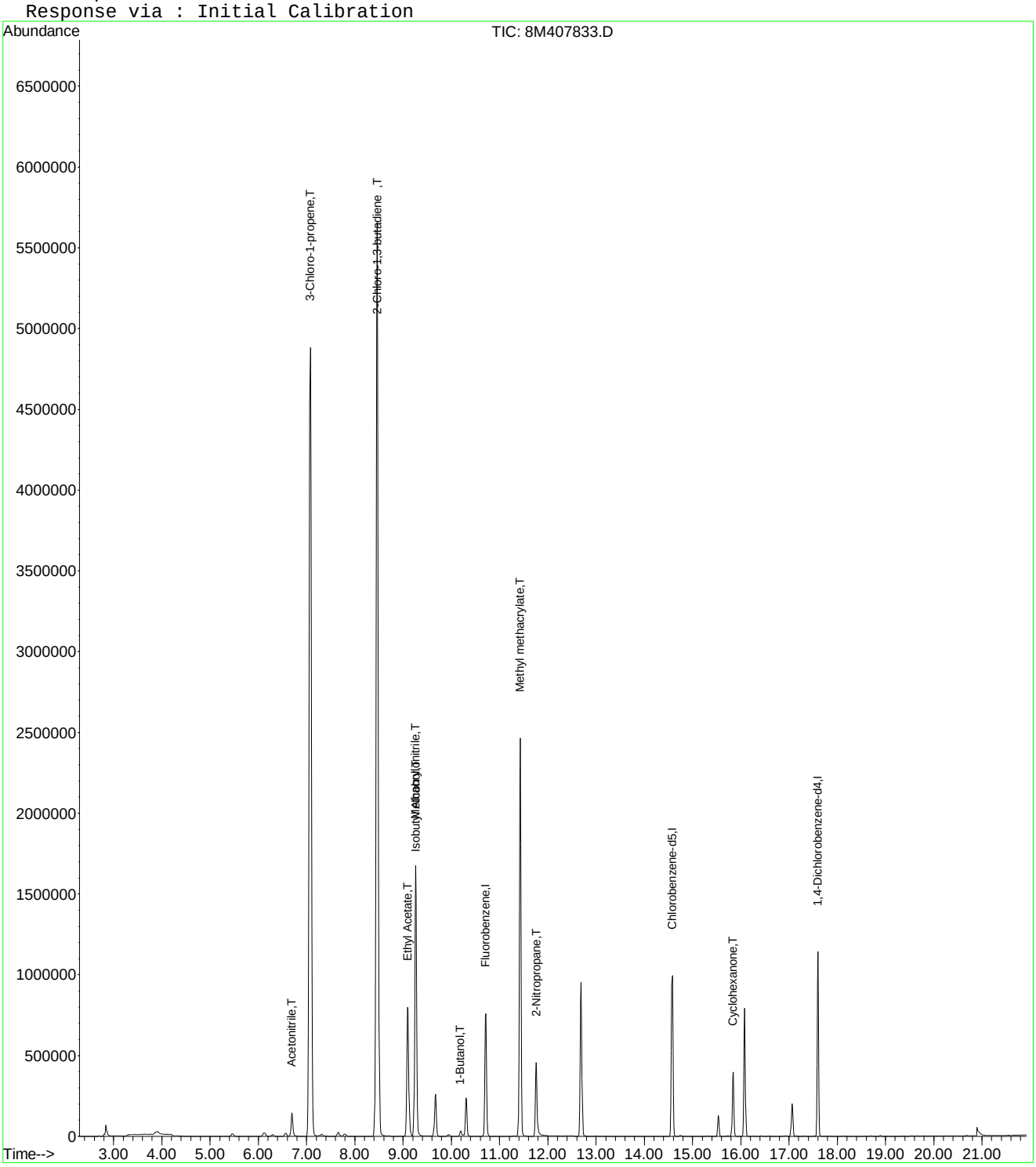
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	914795	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.58	117	689423	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	367388	25.00	ug/L	0.00
Target Compounds						Qvalue
2) Acetonitrile	6.70	41	204679	290.7307	ug/L	99
3) 3-Chloro-1-propene	7.08	41	5107808	298.3223	ug/L	99
4) 2-Chloro-1,3-butadiene	8.46	53	5432917	308.3838	ug/L	97
5) Ethyl Acetate	9.09	43	1404245	301.7310	ug/L	99
6) Methacrylonitrile	9.26	67	619787	303.4256	ug/L	96
7) Isobutyl Alcohol	9.27	43	113276	593.9881	ug/L	97
8) 1-Butanol	10.19	56	30662	326.1916	ug/L	85
9) Methyl methacrylate	11.43	41	1738162	308.3633	ug/L	98
10) 2-Nitropropane	11.76	43	289289	305.7623	ug/L	92
13) Cyclohexanone	15.84	55	224807	287.0174	ug/L	90

(#) = qualifier out of range (m) = manual integration
8M407833.D A9FOOWTR.M Tue Oct 06 11:56:59 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407833.D Vial: 7
Acq On : 5 Oct 2015 14:17 Operator: TMB
Sample : WG540826-07 300ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 11:56 2015 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\100515\8M407834.D Vial: 8
Acq On : 5 Oct 2015 14:47 Operator: TMB
Sample : WG540826-08 400ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 05 15:09:02 2015 Quant Results File: 8260WT.RES

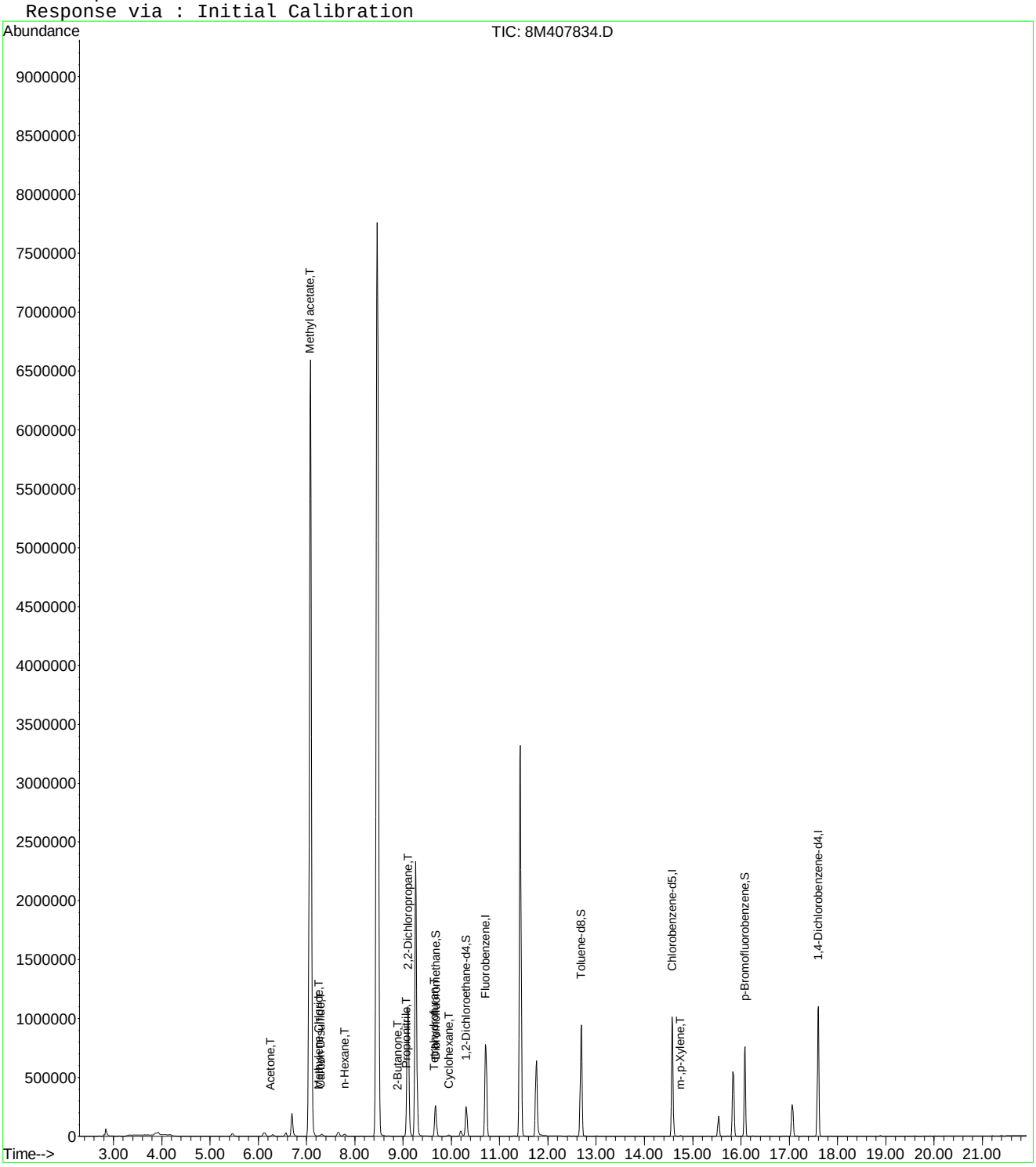
Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	933879	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.57	117	691340	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	373332	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	222232	25.0033	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.00%			
43) 1,2-Dichloroethane-d4	10.31	65	222556	24.5590	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 98.24%			
58) Toluene-d8	12.69	98	831940	25.9359	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.76%			
80) p-Bromofluorobenzene	16.08	95	329799	25.3183	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.28%			
Target Compounds						Qvalue
13) Acetone	6.25	43	2307	1.6644	ug/L #	48
18) Methyl acetate	7.07	43	5300	1.0111	ug/L #	1
19) Methylene Chloride	7.26	84	1631	0.1735	ug/L #	6
20) Carbon Disulfide	7.30	76	9227	0.3005	ug/L #	79
24) n-Hexane	7.79	57	16005	1.1268	ug/L	89
29) 2-Butanone	8.89	43	1241	0.5197	ug/L #	57
30) Propionitrile	9.07	54	773	1.1032	ug/L #	1
31) 2,2-Dichloropropane	9.11	77	2811	0.1842	ug/L #	42
36) Tetrahydrofuran	9.65	42	1879	1.1986	ug/L #	40
39) Cyclohexane	9.95	56	9653	0.5211	ug/L	94
73) m-,p-Xylene	14.75	106	3655	0.2078	ug/L	100

(#) = qualifier out of range (m) = manual integration
8M407834.D 8260WT.M Mon Oct 05 15:09:03 2015 Page 1

Data File : C:\MSDchem\2\data\100515\8M407834.D Vial: 8
Acq On : 5 Oct 2015 14:47 Operator: TMB
Sample : WG540826-08 400ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 5 15:09 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407834.D Vial: 8
Acq On : 5 Oct 2015 14:47 Operator: TMB
Sample : WG540826-08 400ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 11:57:00 2015 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

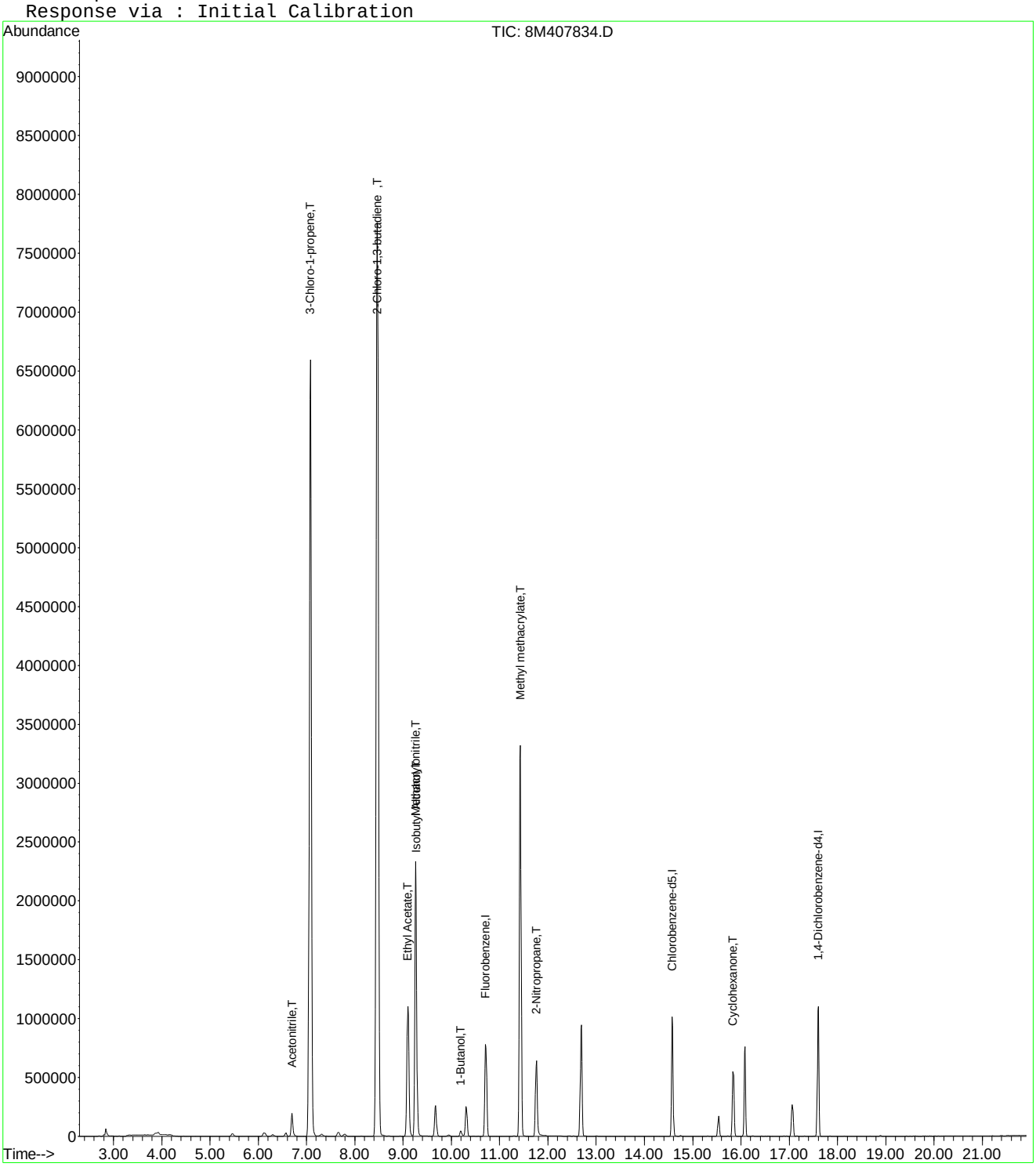
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	933879	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.57	117	691340	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	373332	25.00	ug/L	0.00
Target Compounds						Qvalue
2) Acetonitrile	6.70	41	276454	384.6570	ug/L	96
3) 3-Chloro-1-propene	7.08	41	6839307	391.2880	ug/L	97
4) 2-Chloro-1,3-butadiene	8.47	53	7261886	403.7765	ug/L	94
5) Ethyl Acetate	9.10	43	1919647	404.0467	ug/L	99
6) Methacrylonitrile	9.26	67	856150	410.5753	ug/L	97
7) Isobutyl Alcohol	9.27	43	151941	780.4553	ug/L	92
8) 1-Butanol	10.19	56	39703	413.7412	ug/L	80
9) Methyl methacrylate	11.43	41	2385524	414.5619	ug/L	99
10) 2-Nitropropane	11.76	43	432493	447.7796	ug/L	93
13) Cyclohexanone	15.83	55	313432	393.7962	ug/L	87

(#) = qualifier out of range (m) = manual integration
8M407834.D A9FOOWTR.M Tue Oct 06 11:57:00 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407834.D Vial: 8
Acq On : 5 Oct 2015 14:47 Operator: TMB
Sample : WG540826-08 400ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 11:57 2015 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\100515\8M407835.D Vial: 9
Acq On : 5 Oct 2015 15:15 Operator: TMB
Sample : WG540826-09 500ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 05 15:37:56 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

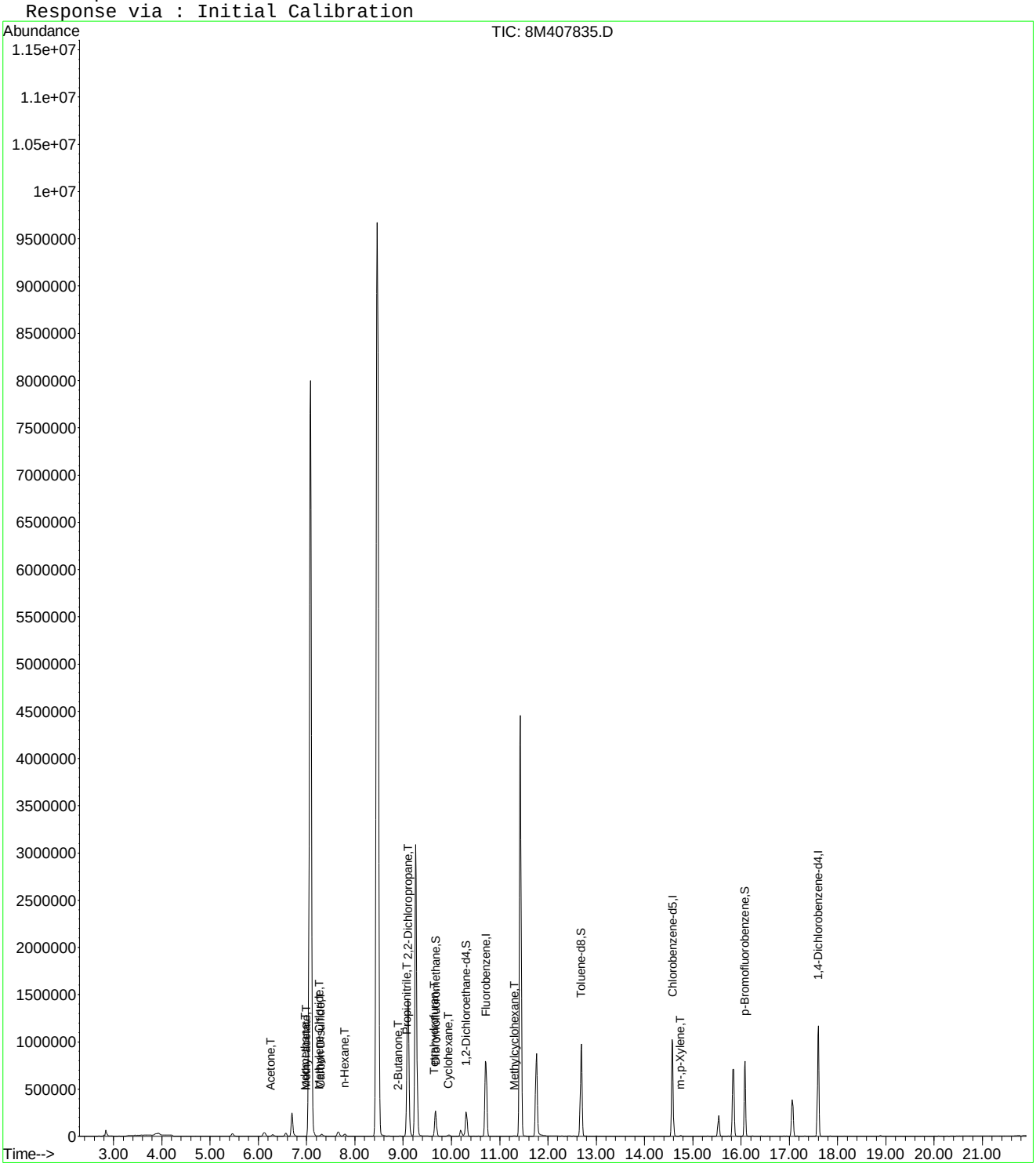
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.72	96	952136	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	712384	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	381907	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.67	111	222948	24.6029 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.40%		
43) 1,2-Dichloroethane-d4	10.30	65	229612	24.8518 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 99.40%		
58) Toluene-d8	12.69	98	849027	25.6867 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.76%		
80) p-Bromofluorobenzene	16.08	95	340742	25.5710 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.28%		
Target Compounds					Qvalue
13) Acetone	6.26	43	2624	1.8568 ug/L #	48
17) Iodomethane	6.98	142	414	1.8830 ug/L #	28
18) Methyl acetate	7.00	43	818	0.1531 ug/L #	64
19) Methylene Chloride	7.27	84	2206	0.2301 ug/L	69
20) Carbon Disulfide	7.30	76	12486	0.3989 ug/L #	78
24) n-Hexane	7.79	57	21760	1.5026 ug/L	96
29) 2-Butanone	8.90	43	1797	0.7381 ug/L #	57
30) Propionitrile	9.07	54	1629	2.2802 ug/L #	1
31) 2,2-Dichloropropane	9.11	77	3861	0.2482 ug/L #	52
36) Tetrahydrofuran	9.65	42	2063	1.2908 ug/L #	40
39) Cyclohexane	9.94	56	13508	0.7152 ug/L	88
48) Methylcyclohexane	11.31	83	2456	0.1572 ug/L #	73
73) m-,p-Xylene	14.75	106	3865	0.2133 ug/L	76

(#) = qualifier out of range (m) = manual integration
8M407835.D 8260WT.M Mon Oct 05 15:37:57 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\100515\8M407835.D Vial: 9
Acq On : 5 Oct 2015 15:15 Operator: TMB
Sample : WG540826-09 500ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 5 15:37 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407835.D Vial: 9
Acq On : 5 Oct 2015 15:15 Operator: TMB
Sample : WG540826-09 500ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 11:57:01 2015 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

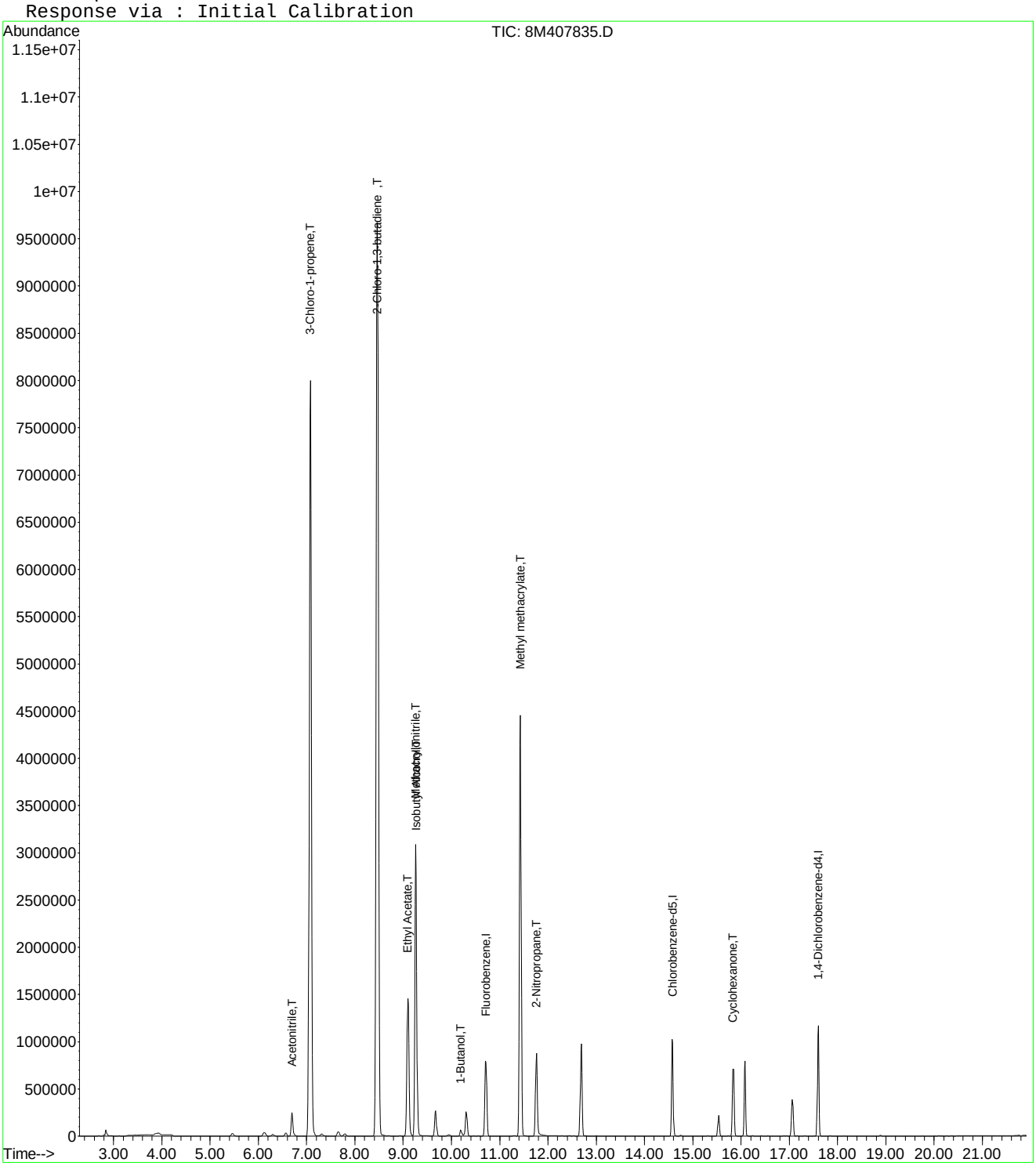
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	952136	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.58	117	712384	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	381907	25.00	ug/L	0.00
Target Compounds						Qvalue
2) Acetonitrile	6.70	41	355656	485.3695	ug/L	97
3) 3-Chloro-1-propene	7.08	41	8223448	461.4556	ug/L	95
4) 2-Chloro-1,3-butadiene	8.46	53	8764656	477.9893	ug/L	90
5) Ethyl Acetate	9.09	43	2535700	523.4795	ug/L	100
6) Methacrylonitrile	9.26	67	1137496	535.0377	ug/L	97
7) Isobutyl Alcohol	9.27	43	214402	1080.1734	ug/L	98
8) 1-Butanol	10.19	56	54442	556.4564	ug/L	87
9) Methyl methacrylate	11.43	41	3137676	534.8171	ug/L	99
10) 2-Nitropropane	11.76	43	594174	603.3794	ug/L	94
13) Cyclohexanone	15.83	55	412487	506.6127	ug/L	87

(#) = qualifier out of range (m) = manual integration
8M407835.D A9FOOWTR.M Tue Oct 06 11:57:01 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407835.D Vial: 9
Acq On : 5 Oct 2015 15:15 Operator: TMB
Sample : WG540826-09 500ug/L STD A9FOO Inst : HPMS8
Misc : 1,1 STD72810 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 11:57 2015 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\100515\8M407838.D Vial: 12
Acq On : 5 Oct 2015 16:48 Operator: TMB
Sample : WG541826-10 100ug/L ALT SRC STD A9/FOO Inst : HPMS8
Misc : 1,1 STD72811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 05 17:10:31 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

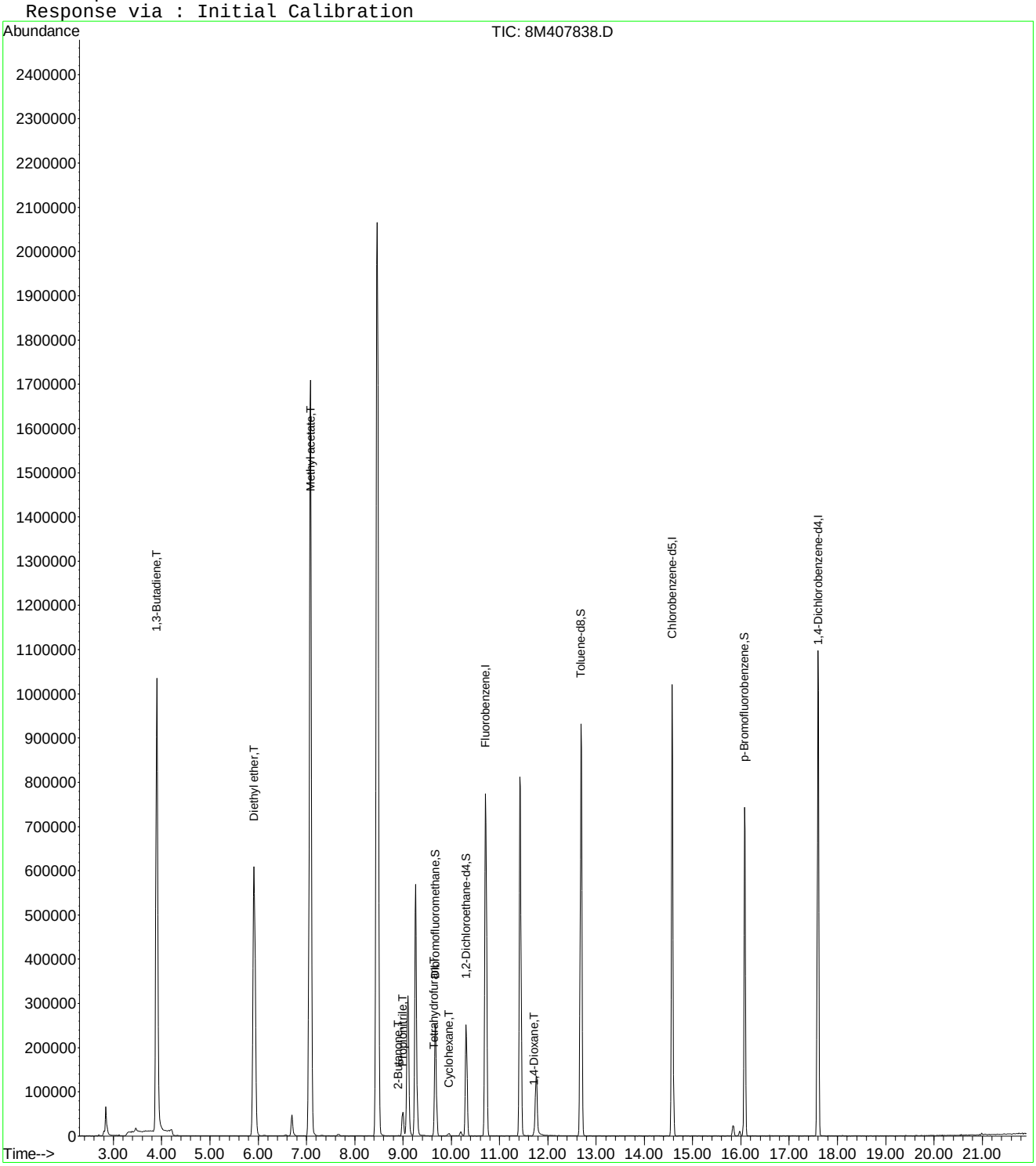
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	910348	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	672710	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	361469	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	216028	24.9336	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.72%			
43) 1,2-Dichloroethane-d4	10.31	65	220386	24.9481	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 99.80%			
58) Toluene-d8	12.68	98	805489	25.8067	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.24%			
80) p-Bromofluorobenzene	16.07	95	318985	25.2918	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.16%			
Target Compounds						Qvalue
5) 1,3-Butadiene	3.90	54	680860	64.5479	ug/L	96
9) Diethyl ether	5.91	59	636031	102.4537	ug/L	99
18) Methyl acetate	7.09	43	861	0.1685	ug/L #	1
29) 2-Butanone	8.90	43	1914	0.8222	ug/L	83
30) Propionitrile	8.99	54	68619	100.4600	ug/L	99
36) Tetrahydrofuran	9.65	42	849	0.5556	ug/L #	40
39) Cyclohexane	9.96	56	4155	0.2301	ug/L #	88
51) 1,4-Dioxane	11.71	88	8398	188.8572	ug/L	85

(#) = qualifier out of range (m) = manual integration
8M407838.D 8260WT.M Mon Oct 05 17:10:32 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\100515\8M407838.D Vial: 12
Acq On : 5 Oct 2015 16:48 Operator: TMB
Sample : WG541826-10 100ug/L ALT SRC STD A9/FOO Inst : HPMS8
Misc : 1,1 STD72811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 5 17:10 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Thu Oct 01 09:30:44 2015
Response via : Initial Calibration



8M407838.D 8260WT.M Mon Oct 05 17:10:33 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407838.D Vial: 12
Acq On : 5 Oct 2015 16:48 Operator: TMB
Sample : WG541826-10 100ug/L ALT SRC STD A9/FOO Inst : HPMS8
Misc : 1,1 STD72811 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 11:57:03 2015 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

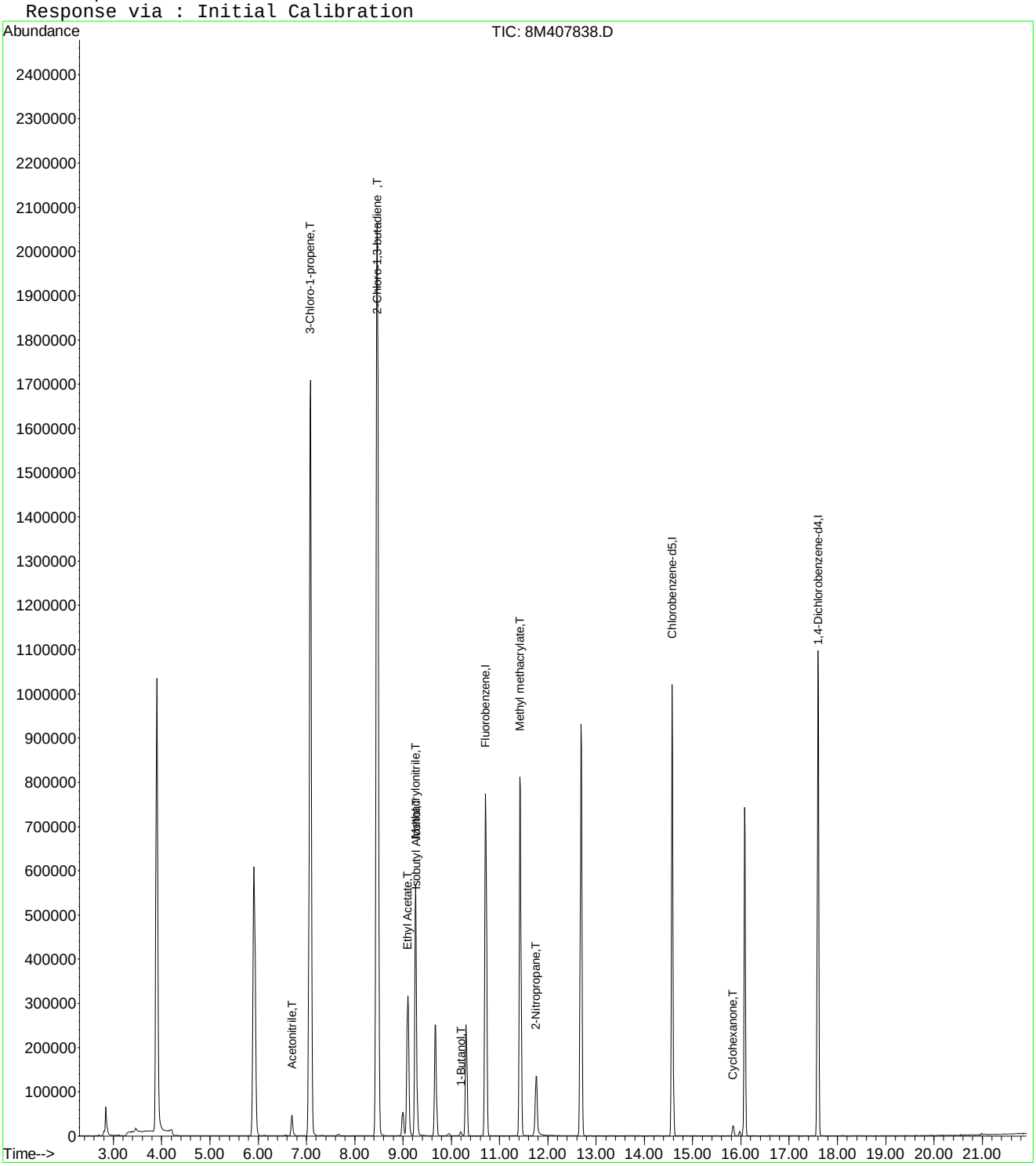
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	910348	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.58	117	672710	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	361469	25.00	ug/L	0.00
Target Compounds						Qvalue
2) Acetonitrile	6.70	41	68331	97.5330	ug/L	99
3) 3-Chloro-1-propene	7.08	41	1823769	107.0379	ug/L	100
4) 2-Chloro-1,3-butadiene	8.47	53	2081638	118.7353	ug/L	100
5) Ethyl Acetate	9.10	43	556798	120.2240	ug/L	97
6) Methacrylonitrile	9.26	67	209938	103.2802	ug/L	94
7) Isobutyl Alcohol	9.27	43	38987	205.4358	ug/L	96
8) 1-Butanol	10.20	56	7758	82.9351	ug/L	93
9) Methyl methacrylate	11.42	41	590033	105.1877	ug/L	99
10) 2-Nitropropane	11.75	43	94685	100.5656	ug/L	93
13) Cyclohexanone	15.84	55	13964	18.1202	ug/L	94

(#) = qualifier out of range (m) = manual integration
8M407838.D A9FOOWTR.M Tue Oct 06 11:57:03 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407838.D Vial: 12
Acq On : 5 Oct 2015 16:48 Operator: TMB
Sample : WG541826-10 100ug/L ALT SRC STD A9/FOO Inst : HPMS8
Misc : 1,1 STD72811 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 11:57 2015 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407838.D Vial: 12
Acq On : 5 Oct 2015 16:48 Operator: TMB
Sample : WG540826-10 100ug/L ALT SRC STD A9/FOO Inst : HPMS8
Misc : 1,1 STD72811 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 12:32:35 2015 Quant Results File: A9FOOWTR.RES

Quant Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

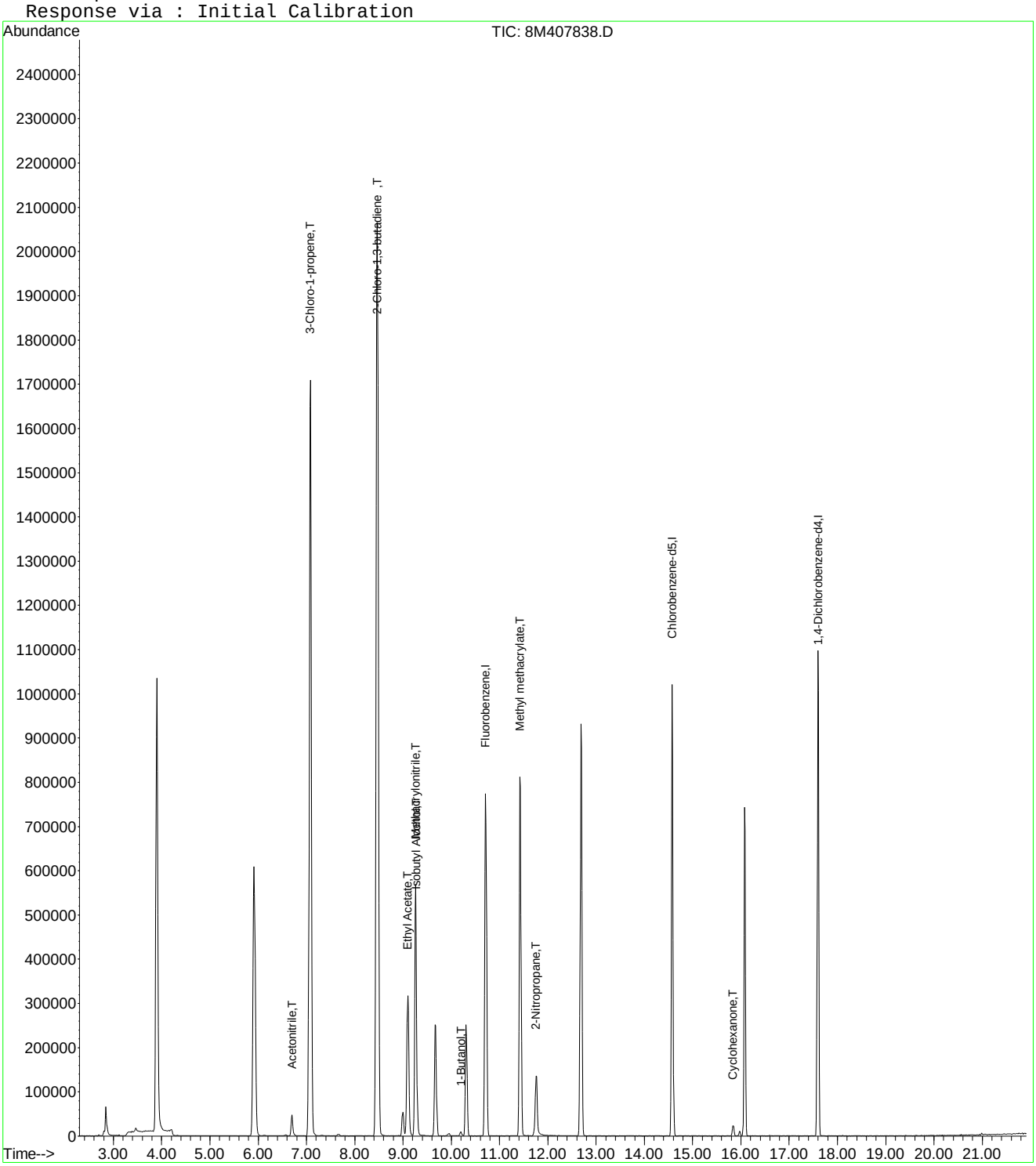
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	910348	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.58	117	672710	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	361469	25.00	ug/L	0.00
Target Compounds						Qvalue
2) Acetonitrile	6.70	41	68331	97.5330	ug/L	99
3) 3-Chloro-1-propene	7.08	41	1823769	107.0379	ug/L	100
4) 2-Chloro-1,3-butadiene	8.47	53	2081638	118.7353	ug/L	100
5) Ethyl Acetate	9.10	43	556798	120.2240	ug/L	97
6) Methacrylonitrile	9.26	67	209938	103.2802	ug/L	94
7) Isobutyl Alcohol	9.27	43	38987	205.4358	ug/L	96
8) 1-Butanol	10.20	56	7758	82.9351	ug/L	93
9) Methyl methacrylate	11.42	41	590033	105.1877	ug/L	99
10) 2-Nitropropane	11.75	43	94685	100.5656	ug/L	93
13) Cyclohexanone	15.84	55	13964	18.1202	ug/L	94

(#) = qualifier out of range (m) = manual integration
8M407838.D A9FOOWTR.M Tue Oct 06 12:32:36 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\100515\8M407838.D Vial: 12
Acq On : 5 Oct 2015 16:48 Operator: TMB
Sample : WG540826-10 100ug/L ALT SRC STD A9/FOO Inst : HPMS8
Misc : 1,1 STD72811 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 12:32 2015 Quant Results File: A9FOOWTR.RES

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
Response via : Initial Calibration



8M407838.D A9FOOWTR.M Tue Oct 06 12:32:36 2015 Page 2

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\100515\8M407838.D Vial: 12
Acq On : 5 Oct 2015 16:48 Operator: TMB
Sample : WG540826-10 100ug/L ALT SRC STD A9/FOO Inst : HPMS8
Misc : 1,1 STD72811 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\2\METHODS\A9FOOWTR.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 10-05-15 HPMS8
Last Update : Tue Oct 06 11:55:21 2015
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	105	0.00
2	T	Acetonitrile	100.0000	97.5330	2.5	101	0.00
3	T	3-Chloro-1-propene	100.0000	107.0379	-7.0	112	0.00
4	T	2-Chloro-1,3-butadiene	100.0000	118.7354	-18.7	124	0.00
5	T	Ethyl Acetate	100.0000	120.2240	-20.2	123	0.00
6	T	Methacrylonitrile	100.0000	103.2802	-3.3	107	0.00
7	T	Isobutyl Alcohol	200.0000	205.4358	-2.7	104	0.00
8	T	1-Butanol	100.0000	82.9351	17.1	94	0.01
9	T	Methyl methacrylate	100.0000	105.1877	-5.2	105	0.00
10	T	2-Nitropropane	100.0000	100.5656	-0.6	122	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	102	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	101	0.00
13	T	Cyclohexanone	100.0000	18.1202	81.9#	19	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M407838.D A9FOOWTR.M Tue Oct 06 12:32:39 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407747.D Vial: 3
Acq On : 30 Sep 2015 10:30 Operator: TMB
Sample : WG540912-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:02:55 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	842533	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	629942	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	326399	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%#		
58) Toluene-d8	0.00	98	0	0.0000	ug/L	
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.00%#		
80) p-Bromofluorobenzene	16.07	95	245	0.0215	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.08%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	3460	0.2701	ug/L	81
3) Chloromethane	3.63	50	5818	0.2977	ug/L	95
4) Vinyl Chloride	3.86	62	5033	0.3259	ug/L	85
5) 1,3-Butadiene	3.90	54	3968	Below Cal #		58
6) Bromomethane	4.74	94	879	0.8599	ug/L #	61
7) Chloroethane	4.90	64	1584	0.2514	ug/L #	43
8) Trichlorofluoromethane	5.37	101	3597	0.2410	ug/L #	92
10) Isoprene	5.95	67	2731	0.2492	ug/L	79
12) 1,1,2-Trichloro-1,2,2-Trif	6.18	101	1287	0.1604	ug/L #	49
14) 1,1-Dichloroethene	6.47	61	4105	0.3005	ug/L	98
16) Dimethyl Sulfide	6.75	62	1886	0.2406	ug/L	92
18) Methyl acetate	7.02	43	897	0.1897	ug/L #	64
19) Methylene Chloride	7.27	84	2727	0.3214	ug/L	93
20) Carbon Disulfide	7.30	76	7953	0.2871	ug/L	93
22) Methyl Tert Butyl Ether	7.49	73	4097	0.2548	ug/L #	50
23) trans-1,2-Dichloroethene	7.70	61	3282	0.2530	ug/L	98
24) n-Hexane	7.79	57	3786	0.2955	ug/L	89
26) Vinyl Acetate	8.31	43	2197	0.2585	ug/L #	77
27) 1,1-Dichloroethane	8.33	63	4345	0.2638	ug/L #	89
31) 2,2-Dichloropropane	9.11	77	4023	0.2922	ug/L #	62
32) cis-1,2-Dichloroethene	9.18	96	2188	0.2364	ug/L	88
33) Chloroform	9.38	83	4576	0.2924	ug/L	85
35) Bromochloromethane	9.62	130	1136	0.2493	ug/L	83
36) Tetrahydrofuran	9.63	42	248	0.1754	ug/L #	40
38) 1,1,1-Trichloroethane	9.90	97	3114	0.2217	ug/L	98
39) Cyclohexane	9.94	56	3908	0.2338	ug/L #	92
40) 1,1-Dichloropropene	10.12	75	3184	0.2633	ug/L	86
42) Carbon Tetrachloride	10.26	117	2506	0.1996	ug/L	93
45) 1,2-Dichloroethane	10.44	62	2693	0.2506	ug/L #	69
46) Benzene	10.47	78	9583	0.2888	ug/L	94
47) Trichloroethene	11.22	130	2701	0.3024	ug/L	94
48) Methylcyclohexane	11.30	83	3801	0.2750	ug/L	90
49) 1,2-Dichloropropane	11.43	63	1944	0.2175	ug/L	86
50) Bromodichloromethane	11.73	83	2933	0.2542	ug/L #	91
53) 2-Chloroethyl Vinyl Ether	12.03	63	715	0.1941	ug/L #	53
55) cis-1,3-Dichloropropene	12.36	75	3481	0.2718	ug/L	98
56) Dimethyl Disulfide	12.63	79	1238	0.1792	ug/L	71
59) Toluene	12.79	91	10440	0.2917	ug/L	93
60) Ethyl Methacrylate	12.89	69	1527	0.2140	ug/L	91
62) trans-1,3-Dichloropropene	12.96	75	2685	0.2445	ug/L	95

(#) = qualifier out of range (m) = manual integration
8M407747.D 8260WT.M Thu Oct 01 09:02:55 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407747.D Vial: 3
Acq On : 30 Sep 2015 10:30 Operator: TMB
Sample : WG540912-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:02:55 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

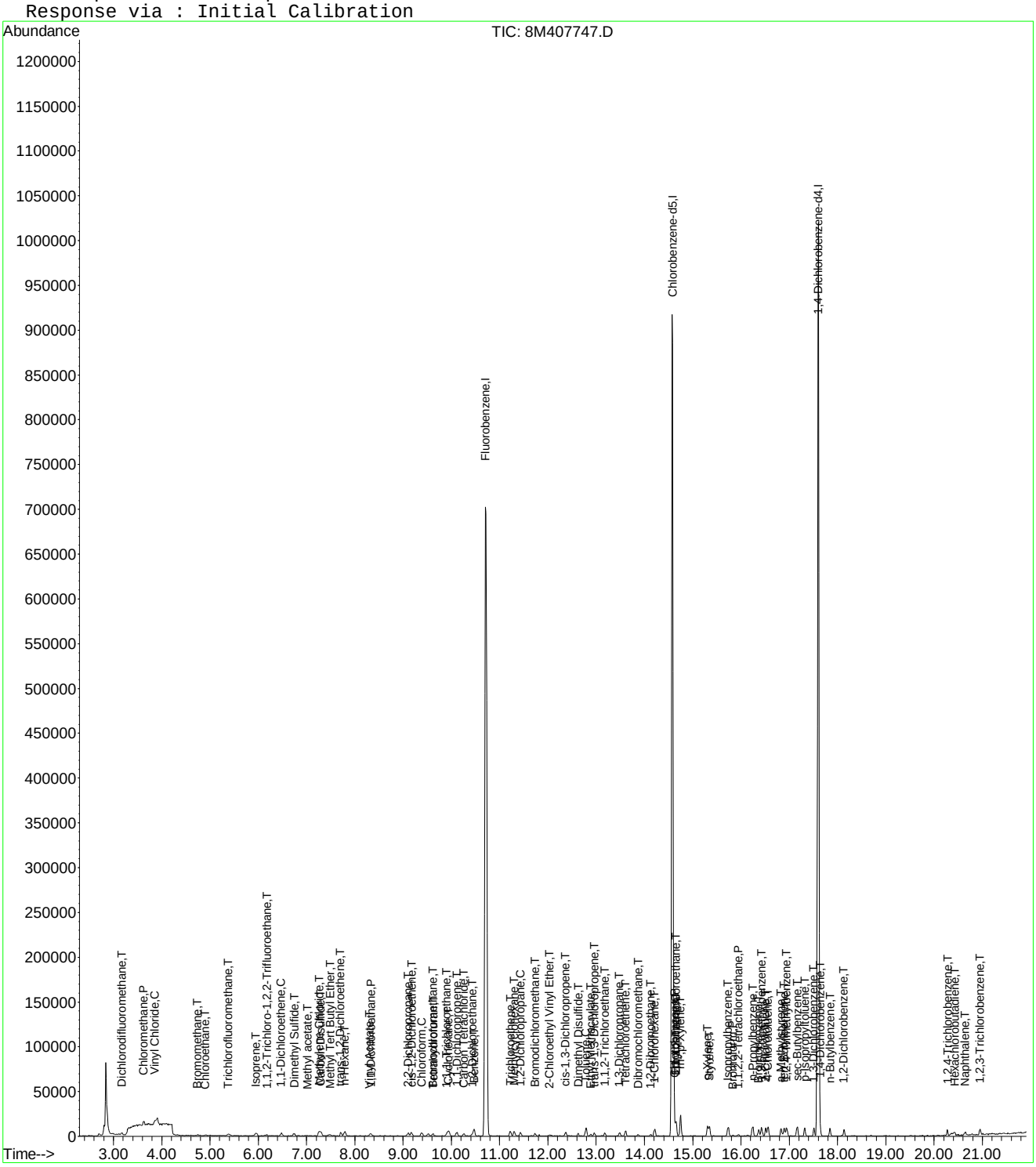
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
63)	1,1,2-Trichloroethane	13.18	97	1180	0.2077 ug/L		69
65)	1,3-Dichloropropane	13.48	76	2279	0.2245 ug/L	#	62
66)	Tetrachloroethene	13.61	164	1978	0.2599 ug/L		83
67)	Dibromochloromethane	13.87	129	1603	0.2182 ug/L		80
68)	1,2-Dibromoethane	14.13	107	1502	0.2648 ug/L		82
69)	1-Chlorohexane	14.21	91	3124	0.2439 ug/L		89
70)	Chlorobenzene	14.64	112	6537	0.2725 ug/L		79
71)	1,1,1,2-Tetrachloroethane	14.66	131	2228	0.2512 ug/L		90
72)	Ethylbenzene	14.66	106	3689	0.2640 ug/L		97
73)	m-,p-Xylene	14.75	106	8556	0.5340 ug/L		90
74)	o-Xylene	15.31	106	3959	0.2443 ug/L		89
75)	Styrene	15.35	104	6791	0.2645 ug/L		89
76)	Bromoform	15.83	173	752	0.1703 ug/L	#	27
77)	Isopropylbenzene	15.73	105	10790	0.2776 ug/L		97
79)	1,1,2,2-Tetrachloroethane	15.95	83	1111	0.1845 ug/L	#	53
83)	n-Propylbenzene	16.25	91	13425	0.2841 ug/L		94
84)	Bromobenzene	16.36	156	2804	0.2923 ug/L		86
85)	1,3,5-Trimethylbenzene	16.42	105	9334	0.2873 ug/L		97
86)	2-Chlorotoluene	16.51	91	9080	0.2901 ug/L		94
87)	4-Chlorotoluene	16.56	91	8463	0.3126 ug/L		91
88)	a-Methylstyrene	16.83	118	4105	0.2318 ug/L		90
89)	tert-Butylbenzene	16.90	134	1912	0.2675 ug/L		87
90)	1,2,4-Trimethylbenzene	16.94	105	8960	0.2729 ug/L		92
91)	sec-Butylbenzene	17.17	105	10929	0.2708 ug/L		99
92)	p-Isopropyltoluene	17.32	119	8859	0.2745 ug/L		100
93)	1,3-Dichlorobenzene	17.51	146	5736	0.2996 ug/L		97
94)	1,4-Dichlorobenzene	17.64	146	5824	0.3054 ug/L	#	38
95)	n-Butylbenzene	17.85	91	8274	0.2750 ug/L	#	92
96)	1,2-Dichlorobenzene	18.13	146	4859	0.2900 ug/L		84
98)	1,2,4-Trichlorobenzene	20.28	180	3220	0.2797 ug/L		94
99)	Hexachlorobutadiene	20.43	225	1169	0.2123 ug/L	#	84
100)	Naphthalene	20.64	128	4792	0.2880 ug/L	#	67
101)	1,2,3-Trichlorobenzene	20.95	180	2667	0.2717 ug/L		93

(#) = qualifier out of range (m) = manual integration
8M407747.D 8260WT.M Thu Oct 01 09:02:55 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407747.D Vial: 3
Acq On : 30 Sep 2015 10:30 Operator: TMB
Sample : WG540912-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 9:02 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\093015\8M407747.D Vial: 3
Acq On : 30 Sep 2015 10:30 Operator: TMB
Sample : WG540912-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
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	-1.0000	0.2701	0.0	100	0.00
3	P	Chloromethane	-1.0000	0.2977	0.0	100	0.00
4	C	Vinyl Chloride	-1.0000	0.3259	0.0	0	0.01
5	T	1,3-Butadiene	-1.0000	-1.0000	0.0	0	0.00
6	T	Bromomethane	-1.0000	0.8599	0.0	100	0.00
7	T	Chloroethane	-1.0000	0.2514	0.0	100	0.00
8	T	Trichlorofluoromethane	-1.0000	0.2410	0.0	100	-0.01
9	T	Diethyl ether	-1.0000	0.0000	0.0	0	-5.91#
10	T	Isoprene	-1.0000	0.2492	0.0	100	0.00
11	T	Acrolein	-1.0000	0.0000	0.0	0	-6.15#
12	T	1,1,2-Trichloro-1,2,2-Trifl	-1.0000	0.1604	0.0	100	0.02
13	T	Acetone	-1.0000	0.0000	0.0	0	-6.24#
14	C	1,1-Dichloroethene	-1.0000	0.3005	0.0	100	0.00
15	T	Tert-Butyl Alcohol	-1.0000	0.0000	0.0	0	-6.59#
16	T	Dimethyl Sulfide	-1.0000	0.2406	0.0	100	0.00
17	T	Iodomethane	-1.0000	0.0000	0.0	0	-6.99#
18	T	Methyl acetate	-1.0000	0.1897	0.0	100	0.00
19	T	Methylene Chloride	-1.0000	0.3214	0.0	100	0.00
20	T	Carbon Disulfide	-1.0000	0.2871	0.0	100	0.00
21	T	Acrylonitrile	-1.0000	0.0000	0.0	0	-7.44#
22	T	Methyl Tert Butyl Ether	-1.0000	0.2548	0.0	100	0.02
23	T	trans-1,2-Dichloroethene	-1.0000	0.2530	0.0	100	-0.01
24	T	n-Hexane	-1.0000	0.2955	0.0	100	0.00
25	T	Diisopropyl ether	-1.0000	0.0000	0.0	0	-8.14#
26	T	Vinyl Acetate	-1.0000	0.2585	0.0	100	0.00
27	P	1,1-Dichloroethane	-1.0000	0.2638	0.0	100	0.00
28	T	Ethyl-Tert-Butyl ether	-1.0000	0.0000	0.0	0	-8.71#
29	T	2-Butanone	-1.0000	0.0970	0.0	100	0.00
30	T	Propionitrile	-1.0000	0.0000	0.0	0	-9.00#
31	T	2,2-Dichloropropane	-1.0000	0.2922	0.0	100	0.00
32	T	cis-1,2-Dichloroethene	-1.0000	0.2364	0.0	100	0.00
33	C	Chloroform	0.3000	0.2924	2.5	100	0.00
34		1-Bromopropane	-1.0000	0.0000	0.0	0	-9.52#
35	T	Bromochloromethane	-1.0000	0.2493	0.0	100	0.00
36	T	Tetrahydrofuran	-1.0000	0.1754	0.0	100	0.00
37	S	Dibromofluoromethane	-1.0000	0.0000	0.0	0	-9.67#
38	T	1,1,1-Trichloroethane	-1.0000	0.2217	0.0	100	-0.01
39	T	Cyclohexane	-1.0000	0.2338	0.0	100	0.00
40	T	1,1-Dichloropropene	-1.0000	0.2633	0.0	100	0.00
41	T	Tert-Amyl-Methyl ether	-1.0000	0.0000	0.0	0	-10.22#
42	T	Carbon Tetrachloride	-1.0000	0.1996	0.0	100	0.00
43	S	1,2-Dichloroethane-d4	-1.0000	0.0000	0.0	0	-10.31#
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	-1.0000	0.2506	0.0	100	0.00
46	T	Benzene	0.3000	0.2888	3.7	100	0.00
47	T	Trichloroethene	-1.0000	0.3024	0.0	100	0.00
48	T	Methylcyclohexane	-1.0000	0.2750	0.0	100	0.00
49	C	1,2-Dichloropropane	-1.0000	0.2175	0.0	100	0.00
50	T	Bromodichloromethane	-1.0000	0.2542	0.0	100	0.00
51	T	1,4-Dioxane	-1.0000	0.0000	0.0	0	-11.71#
52	T	Dibromomethane	-1.0000	0.1149	0.0	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	0.1941	0.0	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	0.0000	0.0	0	-12.07#

(#) = Out of Range
8M407747.D 8260WT.M Thu Oct 01 09:03:20 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\093015\8M407747.D Vial: 3
Acq On : 30 Sep 2015 10:30 Operator: TMB
Sample : WG540912-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
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	cis-1,3-Dichloropropene	-1.0000	0.2718	0.0	100	0.00
56	T	Dimethyl Disulfide	-1.0000	0.1792	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	-1.0000	0.0000	0.0	0	-12.69#
59	C	Toluene	-1.0000	0.2917	0.0	100	0.00
60	T	Ethyl Methacrylate	-1.0000	0.2140	0.0	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	-1.0000	0.2445	0.0	100	0.00
63	T	1,1,2-Trichloroethane	-1.0000	0.2077	0.0	100	0.00
64	T	2-Hexanone	-1.0000	0.0000	0.0	0	-13.12#
65	T	1,3-Dichloropropane	-1.0000	0.2245	0.0	100	0.00
66	T	Tetrachloroethene	-1.0000	0.2599	0.0	100	0.00
67	T	Dibromochloromethane	-1.0000	0.2182	0.0	100	0.00
68	T	1,2-Dibromoethane	-1.0000	0.2648	0.0	100	0.00
69	T	1-Chlorohexane	-1.0000	0.2439	0.0	100	0.00
70	P	Chlorobenzene	-1.0000	0.2725	0.0	100	0.00
71	T	1,1,1,2-Tetrachloroethane	-1.0000	0.2512	0.0	100	0.00
72	C	Ethylbenzene	-1.0000	0.2640	0.0	100	0.00
73	T	m-,p-Xylene	-1.0000	0.5340	0.0	100	0.00
74	T	o-Xylene	-1.0000	0.2443	0.0	100	0.00
75	T	Styrene	-1.0000	0.2645	0.0	100	0.00
76	P	Bromoform	-1.0000	0.1703	0.0	100	0.00
77	T	Isopropylbenzene	-1.0000	0.2776	0.0	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	-1.0000	0.1845	0.0	100	0.00
80	S	p-Bromofluorobenzene	-1.0000	0.0215	0.0	100	0.00
81	T	1,2,3-Trichloropropane	-1.0000	0.0000	0.0	0	-16.14#
82	T	trans-1,4-Dichloro-2-Butene	-1.0000	0.0000	0.0	0	-16.19#
83	T	n-Propylbenzene	-1.0000	0.2841	0.0	0	0.00
84	T	Bromobenzene	0.3000	0.2923	2.6	100	0.00
85	T	1,3,5-Trimethylbenzene	-1.0000	0.2873	0.0	100	0.00
86	T	2-Chlorotoluene	-1.0000	0.2901	0.0	100	0.00
87	T	4-Chlorotoluene	-1.0000	0.3126	0.0	100	0.00
88	T	a-Methylstyrene	-1.0000	0.2318	0.0	100	0.00
89	T	tert-Butylbenzene	-1.0000	0.2675	0.0	100	0.00
90	T	1,2,4-Trimethylbenzene	-1.0000	0.2729	0.0	100	0.00
91	T	sec-Butylbenzene	-1.0000	0.2708	0.0	0	0.00
92	T	p-Isopropyltoluene	-1.0000	0.2745	0.0	100	0.00
93	T	1,3-Dichlorobenzene	-1.0000	0.2996	0.0	100	0.00
94	T	1,4-Dichlorobenzene	0.3000	0.3055	-1.8	100	0.00
95	T	n-Butylbenzene	-1.0000	0.2750	0.0	100	0.00
96	T	1,2-Dichlorobenzene	0.3000	0.2900	3.3	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	-1.0000	0.0000	0.0	0	-19.13#
98	T	1,2,4-Trichlorobenzene	-1.0000	0.2797	0.0	100	0.00
99	T	Hexachlorobutadiene	-1.0000	0.2123	0.0	100	0.00
100	T	Naphthalene	-1.0000	0.2880	0.0	100	0.00
101	T	1,2,3-Trichlorobenzene	0.3000	0.2717	9.4	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M407747.D 8260WT.M Thu Oct 01 09:03:21 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407748.D Vial: 4
Acq On : 30 Sep 2015 10:59 Operator: TMB
Sample : WG540912-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:02:56 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.72	96	843843	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.58	117	621698	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	327803	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%#			
58) Toluene-d8	12.69	98	242	0.0084	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.04%#			
80) 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	3.17	85	5134	0.4002	ug/L		83
3) Chloromethane	3.63	50	10943	0.5590	ug/L		98
4) Vinyl Chloride	3.87	62	7387	0.4775	ug/L		99
5) 1,3-Butadiene	3.91	54	7288	Below Cal			88
6) Bromomethane	4.74	94	1106	0.9036	ug/L		82
7) Chloroethane	4.90	64	1927	0.3053	ug/L	#	53
8) Trichlorofluoromethane	5.38	101	6101	0.4081	ug/L	#	91
10) Isoprene	5.96	67	4001	0.3645	ug/L		97
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	2348	0.2922	ug/L		66
13) Acetone	6.23	43	210	0.1677	ug/L	#	48
14) 1,1-Dichloroethene	6.48	61	5765	0.4214	ug/L		100
16) Dimethyl Sulfide	6.74	62	2612	0.3327	ug/L		95
18) Methyl acetate	7.01	43	1748	0.3691	ug/L	#	64
19) Methylene Chloride	7.27	84	3457	0.4069	ug/L		90
20) Carbon Disulfide	7.31	76	12436	0.4482	ug/L		97
22) Methyl Tert Butyl Ether	7.47	73	6170	0.3831	ug/L	#	75
23) trans-1,2-Dichloroethene	7.71	61	5061	0.3896	ug/L		87
24) n-Hexane	7.80	57	5793	0.4514	ug/L		92
26) Vinyl Acetate	8.30	43	3350	0.3936	ug/L	#	77
27) 1,1-Dichloroethane	8.34	63	6510	0.3946	ug/L	#	90
29) 2-Butanone	8.90	43	383	0.1775	ug/L	#	57
31) 2,2-Dichloropropane	9.12	77	5308	0.3850	ug/L		93
32) cis-1,2-Dichloroethene	9.17	96	3581	0.3863	ug/L		92
33) Chloroform	9.37	83	6738	0.4300	ug/L		94
35) Bromochloromethane	9.61	130	1581	0.3465	ug/L		79
38) 1,1,1-Trichloroethane	9.91	97	5349	0.3802	ug/L		88
39) Cyclohexane	9.94	56	6694	0.3999	ug/L		97
40) 1,1-Dichloropropene	10.11	75	4735	0.3909	ug/L		98
42) Carbon Tetrachloride	10.26	117	4620	0.3675	ug/L		96
45) 1,2-Dichloroethane	10.43	62	3809	0.3539	ug/L		87
46) Benzene	10.47	78	14221	0.4279	ug/L		100
47) Trichloroethene	11.22	130	4002	0.4473	ug/L		91
48) Methylcyclohexane	11.31	83	5900	0.4262	ug/L		94
49) 1,2-Dichloropropane	11.43	63	3209	0.3584	ug/L		98
50) Bromodichloromethane	11.74	83	4465	0.3864	ug/L	#	90
52) Dibromomethane	11.81	93	1530	0.3589	ug/L		88
53) 2-Chloroethyl Vinyl Ether	12.03	63	992	0.2688	ug/L	#	53
54) 4-Methyl-2-Pentanone	12.06	58	712	0.3761	ug/L	#	40
55) cis-1,3-Dichloropropene	12.37	75	4857	0.3786	ug/L		99
56) Dimethyl Disulfide	12.63	79	1384	0.2001	ug/L		64

(#) = qualifier out of range (m) = manual integration
8M407748.D 8260WT.M Thu Oct 01 09:02:56 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407748.D Vial: 4
Acq On : 30 Sep 2015 10:59 Operator: TMB
Sample : WG540912-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:02:56 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

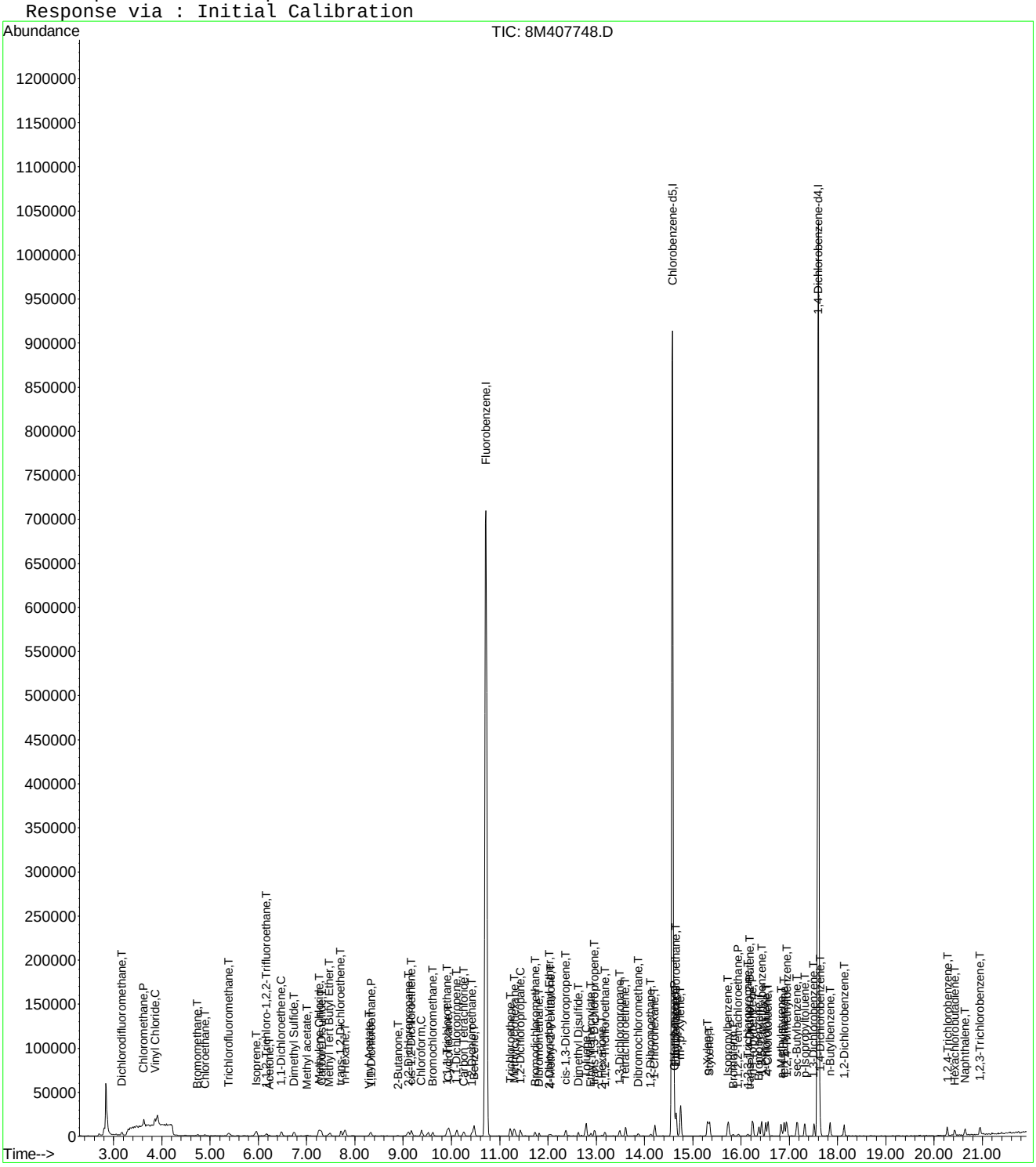
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
59)	Toluene	12.79	91	15773	0.4465 ug/L		96
60)	Ethyl Methacrylate	12.89	69	2057	0.2921 ug/L	#	62
62)	trans-1,3-Dichloropropene	12.96	75	4017	0.3706 ug/L		93
63)	1,1,2-Trichloroethane	13.19	97	2143	0.3822 ug/L		95
64)	2-Hexanone	13.13	58	381	0.2161 ug/L	#	4
65)	1,3-Dichloropropane	13.49	76	4066	0.4058 ug/L		94
66)	Tetrachloroethene	13.60	164	2729	0.3634 ug/L		96
67)	Dibromochloromethane	13.87	129	2633	0.3632 ug/L		91
68)	1,2-Dibromoethane	14.13	107	2336	0.4173 ug/L		97
69)	1-Chlorohexane	14.21	91	5084	0.4022 ug/L		98
70)	Chlorobenzene	14.62	112	10137	0.4282 ug/L		92
71)	1,1,1,2-Tetrachloroethane	14.66	131	2637	0.3013 ug/L		89
72)	Ethylbenzene	14.66	106	5499	0.3988 ug/L		92
73)	m-,p-Xylene	14.75	106	12993	0.8216 ug/L		94
74)	o-Xylene	15.31	106	5938	0.3713 ug/L		82
75)	Styrene	15.35	104	9522	0.3758 ug/L		94
76)	Bromoform	15.84	173	1354	0.3107 ug/L	#	71
77)	Isopropylbenzene	15.73	105	16651	0.4341 ug/L		99
79)	1,1,2,2-Tetrachloroethane	15.94	83	2444	0.4041 ug/L	#	84
81)	1,2,3-Trichloropropane	16.14	110	444	0.2642 ug/L	#	34
82)	trans-1,4-Dichloro-2-Buten	16.18	53	458	0.2061 ug/L	#	1
83)	n-Propylbenzene	16.24	91	20209	0.4258 ug/L		97
84)	Bromobenzene	16.37	156	3499	0.3632 ug/L		77
85)	1,3,5-Trimethylbenzene	16.43	105	14131	0.4331 ug/L		95
86)	2-Chlorotoluene	16.52	91	13492	0.4292 ug/L		89
87)	4-Chlorotoluene	16.56	91	12070	0.4440 ug/L		99
88)	a-Methylstyrene	16.84	118	5722	0.3217 ug/L		89
89)	tert-Butylbenzene	16.90	134	2905	0.4047 ug/L		93
90)	1,2,4-Trimethylbenzene	16.95	105	13785	0.4181 ug/L		99
91)	sec-Butylbenzene	17.16	105	16834	0.4153 ug/L		95
92)	p-Isopropyltoluene	17.32	119	13597	0.4195 ug/L		98
93)	1,3-Dichlorobenzene	17.51	146	8047	0.4185 ug/L		97
94)	1,4-Dichlorobenzene	17.64	146	8517	0.4448 ug/L	#	72
95)	n-Butylbenzene	17.85	91	13596	0.4500 ug/L		98
96)	1,2-Dichlorobenzene	18.14	146	6772	0.4025 ug/L		98
98)	1,2,4-Trichlorobenzene	20.28	180	4122	0.3566 ug/L		82
99)	Hexachlorobutadiene	20.43	225	2196	0.3972 ug/L	#	81
100)	Naphthalene	20.64	128	7425	0.4443 ug/L		89
101)	1,2,3-Trichlorobenzene	20.95	180	3734	0.3788 ug/L		98

(#) = qualifier out of range (m) = manual integration
8M407748.D 8260WT.M Thu Oct 01 09:02:56 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407748.D Vial: 4
Acq On : 30 Sep 2015 10:59 Operator: TMB
Sample : WG540912-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 9:02 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\093015\8M407748.D Vial: 4
Acq On : 30 Sep 2015 10:59 Operator: TMB
Sample : WG540912-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
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	0.4000	0.4002	-0.0	100	0.00
3	P	Chloromethane	-1.0000	0.5590	0.0	100	0.00
4	C	Vinyl Chloride	0.4000	0.4775	-19.4	100	0.02
5	T	1,3-Butadiene	-1.0000	-1.0000	0.0	0	0.02
6	T	Bromomethane	-1.0000	0.9036	0.0	100	0.00
7	T	Chloroethane	0.4000	0.3053	23.7	100	0.00
8	T	Trichlorofluoromethane	0.4000	0.4081	-2.0	100	0.00
9	T	Diethyl ether	-1.0000	0.0000	0.0	0	-5.91#
10	T	Isoprene	0.4000	0.3645	8.9	100	0.00
11	T	Acrolein	-1.0000	0.0000	0.0	0	-6.15#
12	T	1,1,2-Trichloro-1,2,2-Trifl	-1.0000	0.2922	0.0	100	0.00
13	T	Acetone	-1.0000	0.1677	0.0	100	-0.01
14	C	1,1-Dichloroethene	0.4000	0.4214	-5.3	100	0.00
15	T	Tert-Butyl Alcohol	-1.0000	0.0000	0.0	0	-6.59#
16	T	Dimethyl Sulfide	0.4000	0.3327	16.8	100	0.00
17	T	Iodomethane	-1.0000	0.0000	0.0	0	-6.99#
18	T	Methyl acetate	-1.0000	0.3691	0.0	100	0.00
19	T	Methylene Chloride	-1.0000	0.4069	0.0	100	0.00
20	T	Carbon Disulfide	-1.0000	0.4482	0.0	100	0.00
21	T	Acrylonitrile	-1.0000	0.0000	0.0	0	-7.44#
22	T	Methyl Tert Butyl Ether	-1.0000	0.3831	0.0	100	0.00
23	T	trans-1,2-Dichloroethene	0.4000	0.3896	2.6	100	0.00
24	T	n-Hexane	-1.0000	0.4514	0.0	100	0.00
25	T	Diisopropyl ether	-1.0000	0.0000	0.0	0	-8.14#
26	T	Vinyl Acetate	0.4000	0.3936	1.6	100	0.00
27	P	1,1-Dichloroethane	0.4000	0.3946	1.4	100	0.00
28	T	Ethyl-Tert-Butyl ether	-1.0000	0.0000	0.0	0	-8.71#
29	T	2-Butanone	-1.0000	0.1775	0.0	100	0.00
30	T	Propionitrile	-1.0000	0.0000	0.0	0	-9.00#
31	T	2,2-Dichloropropane	0.4000	0.3850	3.8	100	0.00
32	T	cis-1,2-Dichloroethene	0.4000	0.3863	3.4	100	0.00
33	C	Chloroform	0.4000	0.4300	-7.5	100	0.00
34		1-Bromopropane	-1.0000	0.0000	0.0	0	-9.52#
35	T	Bromochloromethane	0.4000	0.3465	13.4	100	0.00
36	T	Tetrahydrofuran	-1.0000	0.0000	0.0	0	-9.64#
37	S	Dibromofluoromethane	-1.0000	0.0000	0.0	0	-9.67#
38	T	1,1,1-Trichloroethane	0.4000	0.3802	4.9	100	0.00
39	T	Cyclohexane	-1.0000	0.3999	0.0	100	0.00
40	T	1,1-Dichloropropene	-1.0000	0.3909	0.0	100	0.00
41	T	Tert-Amyl-Methyl ether	-1.0000	0.0000	0.0	0	-10.22#
42	T	Carbon Tetrachloride	0.4000	0.3675	8.1	100	0.00
43	S	1,2-Dichloroethane-d4	-1.0000	0.0000	0.0	0	-10.31#
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	0.4000	0.3539	11.5	100	0.00
46	T	Benzene	0.4000	0.4279	-7.0	100	0.00
47	T	Trichloroethene	0.4000	0.4473	-11.8	100	0.00
48	T	Methylcyclohexane	-1.0000	0.4262	0.0	100	0.00
49	C	1,2-Dichloropropane	0.4000	0.3584	10.4	100	0.00
50	T	Bromodichloromethane	0.4000	0.3864	3.4	100	0.00
51	T	1,4-Dioxane	-1.0000	0.0000	0.0	0	-11.71#
52	T	Dibromomethane	0.4000	0.3589	10.3	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	0.2688	0.0	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	0.3761	0.0	100	0.00

(#) = Out of Range
8M407748.D 8260WT.M Thu Oct 01 09:03:29 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\093015\8M407748.D Vial: 4
Acq On : 30 Sep 2015 10:59 Operator: TMB
Sample : WG540912-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
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	cis-1,3-Dichloropropene	0.4000	0.3786	5.3	100	0.00
56	T	Dimethyl Disulfide	-1.0000	0.2001	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	-1.0000	0.0084	0.0	100	0.00
59	C	Toluene	0.4000	0.4465	-11.6	100	0.00
60	T	Ethyl Methacrylate	-1.0000	0.2921	0.0	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	-1.0000	0.3706	0.0	100	0.00
63	T	1,1,2-Trichloroethane	0.4000	0.3822	4.5	100	0.00
64	T	2-Hexanone	-1.0000	0.2161	0.0	100	0.00
65	T	1,3-Dichloropropane	0.4000	0.4058	-1.4	100	0.00
66	T	Tetrachloroethene	0.4000	0.3634	9.2	100	0.00
67	T	Dibromochloromethane	0.4000	0.3632	9.2	100	0.00
68	T	1,2-Dibromoethane	0.4000	0.4173	-4.3	100	0.00
69	T	1-Chlorohexane	0.4000	0.4022	-0.5	100	0.00
70	P	Chlorobenzene	0.4000	0.4282	-7.1	100	0.00
71	T	1,1,1,2-Tetrachloroethane	0.4000	0.3013	24.7	100	0.00
72	C	Ethylbenzene	0.4000	0.3988	0.3	100	0.00
73	T	m-,p-Xylene	0.8000	0.8216	-2.7	100	0.00
74	T	o-Xylene	-1.0000	0.3713	0.0	100	0.00
75	T	Styrene	0.4000	0.3758	6.0	100	0.00
76	P	Bromoform	-1.0000	0.3107	0.0	100	0.00
77	T	Isopropylbenzene	0.4000	0.4341	-8.5	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	0.4000	0.4041	-1.0	100	0.00
80	S	p-Bromofluorobenzene	-1.0000	0.0000	0.0	0	-16.08#
81	T	1,2,3-Trichloropropane	-1.0000	0.2642	0.0	100	0.00
82	T	trans-1,4-Dichloro-2-Butene	-1.0000	0.2061	0.0	100	0.00
83	T	n-Propylbenzene	0.4000	0.4258	-6.5	100	0.00
84	T	Bromobenzene	0.4000	0.3632	9.2	100	0.00
85	T	1,3,5-Trimethylbenzene	0.4000	0.4331	-8.3	100	0.00
86	T	2-Chlorotoluene	0.4000	0.4292	-7.3	100	0.00
87	T	4-Chlorotoluene	0.4000	0.4440	-11.0	100	0.00
88	T	a-Methylstyrene	-1.0000	0.3217	0.0	100	0.00
89	T	tert-Butylbenzene	-1.0000	0.4047	0.0	100	0.00
90	T	1,2,4-Trimethylbenzene	0.4000	0.4181	-4.5	100	0.00
91	T	sec-Butylbenzene	-1.0000	0.4153	0.0	0	0.00
92	T	p-Isopropyltoluene	-1.0000	0.4195	0.0	100	0.00
93	T	1,3-Dichlorobenzene	0.4000	0.4185	-4.6	100	0.00
94	T	1,4-Dichlorobenzene	0.4000	0.4448	-11.2	100	0.00
95	T	n-Butylbenzene	-1.0000	0.4500	0.0	100	0.00
96	T	1,2-Dichlorobenzene	0.4000	0.4025	-0.6	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	-1.0000	0.0000	0.0	0	-19.13#
98	T	1,2,4-Trichlorobenzene	0.4000	0.3566	10.9	100	0.00
99	T	Hexachlorobutadiene	0.4000	0.3972	0.7	100	0.00
100	T	Naphthalene	0.4000	0.4443	-11.1	100	0.00
101	T	1,2,3-Trichlorobenzene	0.4000	0.3788	5.3	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M407748.D 8260WT.M Thu Oct 01 09:03:30 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407749.D Vial: 5
Acq On : 30 Sep 2015 11:32 Operator: TMB
Sample : WG540912-04 1ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:02:57 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	824629	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	595142	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	310452	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	3760	0.4791	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	1.92%#		
43) 1,2-Dichloroethane-d4	10.31	65	3739	0.4673	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	1.88%#		
58) Toluene-d8	12.69	98	14193	0.5140	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	2.04%#		
80) p-Bromofluorobenzene	16.08	95	5646	0.5212	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	2.08%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	12560	1.0019	ug/L	91
3) Chloromethane	3.63	50	22855	1.1947	ug/L	98
4) Vinyl Chloride	3.86	62	17167	1.1356	ug/L	98
5) 1,3-Butadiene	3.91	54	17031	Below Cal		87
6) Bromomethane	4.74	94	3443	1.3712	ug/L	94
7) Chloroethane	4.90	64	6509	1.0554	ug/L	95
8) Trichlorofluoromethane	5.37	101	15428	1.0559	ug/L	99
9) Diethyl ether	5.92	59	27834	4.9496	ug/L	94
10) Isoprene	5.95	67	10646	0.9925	ug/L	94
11) Acrolein	6.15	56	1375	1.9702	ug/L #	63
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	8094	1.0306	ug/L	87
13) Acetone	6.26	43	1007	0.8227	ug/L #	48
14) 1,1-Dichloroethene	6.47	61	14040	1.0502	ug/L	100
15) Tert-Butyl Alcohol	6.58	59	3663	10.1285	ug/L #	58
16) Dimethyl Sulfide	6.74	62	7699	1.0034	ug/L	94
17) Iodomethane	7.00	142	1516	2.1016	ug/L #	28
18) Methyl acetate	7.01	43	4667	1.0083	ug/L #	64
19) Methylene Chloride	7.27	84	8915	1.0737	ug/L	98
20) Carbon Disulfide	7.31	76	28782	1.0616	ug/L	96
21) Acrylonitrile	7.43	53	4083	2.2221	ug/L	96
22) Methyl Tert Butyl Ether	7.47	73	15039	0.9555	ug/L	96
23) trans-1,2-Dichloroethene	7.71	61	12677	0.9985	ug/L	89
24) n-Hexane	7.79	57	12774	1.0185	ug/L	90
25) Diisopropyl ether	8.13	45	163256	5.2163	ug/L	99
26) Vinyl Acetate	8.31	43	7588	0.9122	ug/L #	77
27) 1,1-Dichloroethane	8.33	63	16753	1.0391	ug/L	98
28) Ethyl-Tert-Butyl ether	8.71	59	123570	5.0127	ug/L	96
29) 2-Butanone	8.89	43	1526	0.7237	ug/L #	57
30) Propionitrile	9.00	54	2724	4.4026	ug/L #	56
31) 2,2-Dichloropropane	9.12	77	14447	1.0722	ug/L	97
32) cis-1,2-Dichloroethene	9.18	96	9612	1.0611	ug/L	96
33) Chloroform	9.38	83	15678	1.0237	ug/L	98
34) 1-Bromopropane	9.51	122	1192	0.8013	ug/L	86
35) Bromochloromethane	9.61	130	4709	1.0560	ug/L	97
36) Tetrahydrofuran	9.64	42	7663	5.5360	ug/L	91
38) 1,1,1-Trichloroethane	9.91	97	13556	0.9861	ug/L	98
39) Cyclohexane	9.94	56	16484	1.0077	ug/L	98
40) 1,1-Dichloropropene	10.11	75	12255	1.0354	ug/L	100
41) Tert-Amyl-Methyl ether	10.21	73	91204	4.9900	ug/L	98
42) Carbon Tetrachloride	10.25	117	12771	1.0395	ug/L	97

(#) = qualifier out of range (m) = manual integration
8M407749.D 8260WT.M Thu Oct 01 09:02:57 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407749.D Vial: 5
Acq On : 30 Sep 2015 11:32 Operator: TMB
Sample : WG540912-04 1ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:02:57 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

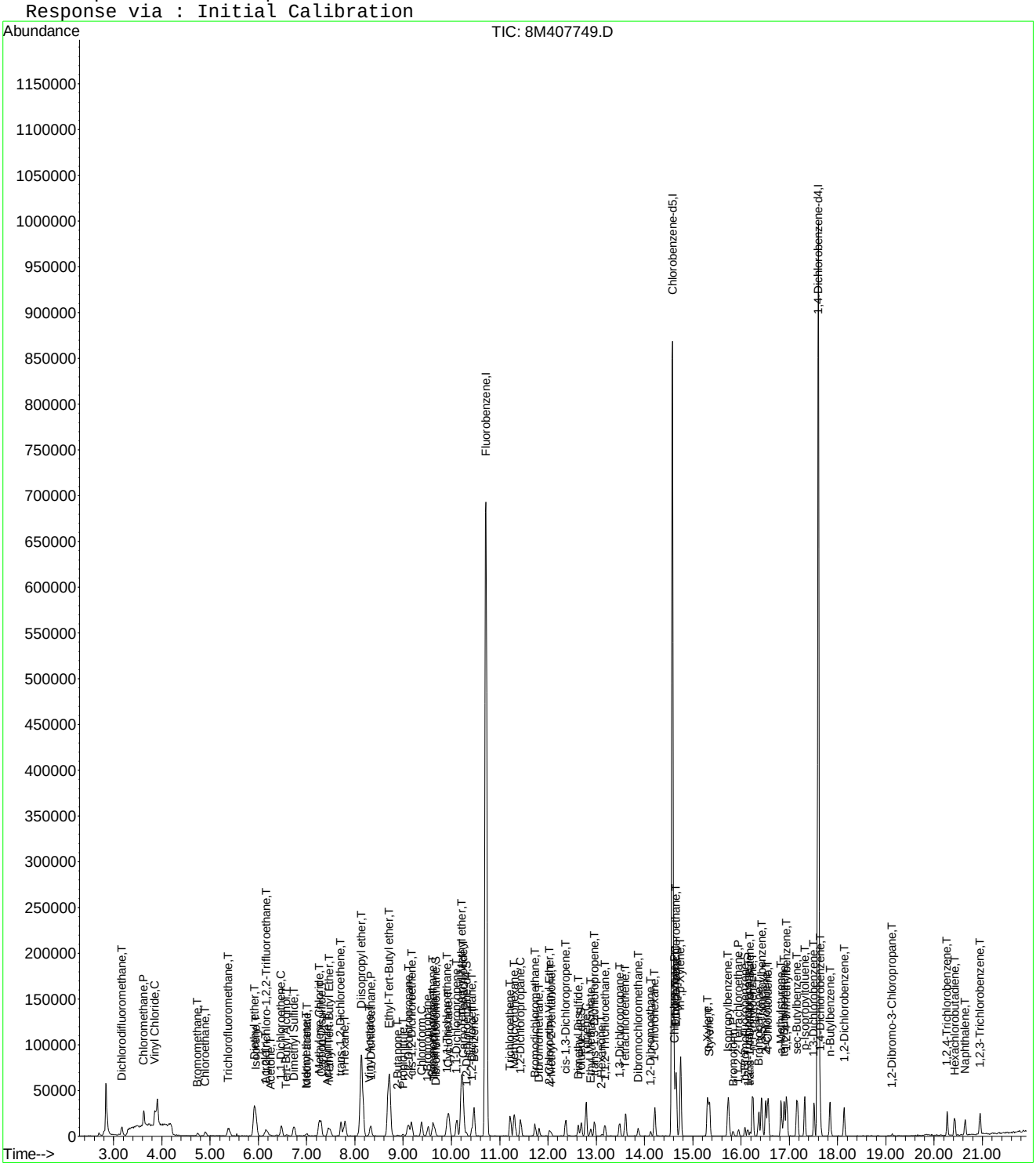
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	10153	0.9654 ug/L		97
46)	Benzene	10.47	78	35220	1.0845 ug/L		97
47)	Trichloroethene	11.21	130	8672	0.9919 ug/L		96
48)	Methylcyclohexane	11.30	83	14046	1.0383 ug/L		95
49)	1,2-Dichloropropane	11.43	63	8870	1.0138 ug/L		99
50)	Bromodichloromethane	11.73	83	10676	0.9454 ug/L		94
52)	Dibromomethane	11.81	93	3913	0.9392 ug/L		94
53)	2-Chloroethyl Vinyl Ether	12.03	63	2929	0.8122 ug/L	#	53
54)	4-Methyl-2-Pentanone	12.07	58	1715	0.9270 ug/L	#	40
55)	cis-1,3-Dichloropropene	12.37	75	12248	0.9770 ug/L		96
56)	Dimethyl Disulfide	12.63	79	4694	0.6944 ug/L		86
59)	Toluene	12.79	91	37092	1.0968 ug/L		98
60)	Ethyl Methacrylate	12.89	69	5450	0.8083 ug/L		89
62)	trans-1,3-Dichloropropene	12.96	75	9101	0.8772 ug/L		89
63)	1,1,2-Trichloroethane	13.19	97	5067	0.9440 ug/L		92
64)	2-Hexanone	13.12	58	1227	0.7271 ug/L	#	74
65)	1,3-Dichloropropane	13.49	76	9904	1.0325 ug/L		97
66)	Tetrachloroethene	13.60	164	7979	1.1098 ug/L		91
67)	Dibromochloromethane	13.87	129	6283	0.9053 ug/L		98
68)	1,2-Dibromoethane	14.13	107	5024	0.9375 ug/L		94
69)	1-Chlorohexane	14.21	91	12607	1.0418 ug/L		100
70)	Chlorobenzene	14.62	112	23286	1.0276 ug/L		98
71)	1,1,1,2-Tetrachloroethane	14.66	131	7725	0.9220 ug/L		91
72)	Ethylbenzene	14.66	106	13047	0.9884 ug/L		100
73)	m-,p-Xylene	14.75	106	31986	2.1129 ug/L		94
74)	o-Xylene	15.31	106	16415	1.0723 ug/L		86
75)	Styrene	15.35	104	24064	0.9921 ug/L		99
76)	Bromoform	15.84	173	3394	0.8135 ug/L		88
77)	Isopropylbenzene	15.73	105	40727	1.1090 ug/L		97
79)	1,1,2,2-Tetrachloroethane	15.95	83	5352	0.9344 ug/L	#	90
81)	1,2,3-Trichloropropane	16.15	110	1453	0.9129 ug/L		87
82)	trans-1,4-Dichloro-2-Buten	16.18	53	2043	0.9706 ug/L	#	38
83)	n-Propylbenzene	16.24	91	50469	1.1228 ug/L		97
84)	Bromobenzene	16.37	156	9871	1.0818 ug/L		98
85)	1,3,5-Trimethylbenzene	16.43	105	34529	1.1173 ug/L		96
86)	2-Chlorotoluene	16.52	91	33677	1.1312 ug/L		96
87)	4-Chlorotoluene	16.56	91	29657	1.1519 ug/L		97
88)	a-Methylstyrene	16.83	118	15521	0.9213 ug/L		94
89)	tert-Butylbenzene	16.90	134	6877	1.0116 ug/L		92
90)	1,2,4-Trimethylbenzene	16.94	105	34007	1.0890 ug/L		99
91)	sec-Butylbenzene	17.16	105	42264	1.1009 ug/L		100
92)	p-Isopropyltoluene	17.32	119	33409	1.0885 ug/L		95
93)	1,3-Dichlorobenzene	17.51	146	19715	1.0825 ug/L		99
94)	1,4-Dichlorobenzene	17.64	146	19673	1.0848 ug/L	#	69
95)	n-Butylbenzene	17.85	91	31225	1.0913 ug/L		99
96)	1,2-Dichlorobenzene	18.14	146	17412	1.0926 ug/L		95
97)	1,2-Dibromo-3-Chloropropan	19.13	75	677	0.6745 ug/L		68
98)	1,2,4-Trichlorobenzene	20.27	180	10656	0.9733 ug/L		97
99)	Hexachlorobutadiene	20.43	225	5105	0.9749 ug/L		88
100)	Naphthalene	20.64	128	16387	1.0353 ug/L		95
101)	1,2,3-Trichlorobenzene	20.95	180	9842	1.0542 ug/L		93

(#) = qualifier out of range (m) = manual integration
8M407749.D 8260WT.M Thu Oct 01 09:02:57 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407749.D Vial: 5
Acq On : 30 Sep 2015 11:32 Operator: TMB
Sample : WG540912-04 1ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 9:02 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\093015\8M407749.D Vial: 5
Acq On : 30 Sep 2015 11:32 Operator: TMB
Sample : WG540912-04 1ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
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	1.0000	1.0018	-0.2	100	0.00
3	P	Chloromethane	1.0000	1.1947	-19.5	100	0.00
4	C	Vinyl Chloride	1.0000	1.1356	-13.6	100	0.01
5	T	1,3-Butadiene	-1.0000	-1.0000	0.0	0	0.02
6	T	Bromomethane	1.0000	1.3712	-37.1#	100	0.00
7	T	Chloroethane	1.0000	1.0554	-5.5	100	0.00
8	T	Trichlorofluoromethane	1.0000	1.0559	-5.6	100	-0.01
9	T	Diethyl ether	5.0000	4.9496	1.0	100	0.00
10	T	Isoprene	1.0000	0.9925	0.8	100	0.00
11	T	Acrolein	-1.0000	1.9702	0.0	100	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	1.0000	1.0306	-3.1	100	0.00
13	T	Acetone	-1.0000	0.8227	0.0	100	0.02
14	C	1,1-Dichloroethene	1.0000	1.0502	-5.0	100	0.00
15	T	Tert-Butyl Alcohol	-1.0000	10.1285	0.0	100	0.00
16	T	Dimethyl Sulfide	1.0000	1.0034	-0.3	100	0.00
17	T	Iodomethane	-1.0000	2.1016	0.0	0	0.00
18	T	Methyl acetate	-1.0000	1.0083	0.0	100	0.00
19	T	Methylene Chloride	1.0000	1.0737	-7.4	100	0.00
20	T	Carbon Disulfide	1.0000	1.0616	-6.2	100	0.00
21	T	Acrylonitrile	2.5000	2.2221	11.1	100	-0.01
22	T	Methyl Tert Butyl Ether	1.0000	0.9555	4.5	100	0.00
23	T	trans-1,2-Dichloroethene	1.0000	0.9985	0.1	100	0.00
24	T	n-Hexane	-1.0000	1.0185	0.0	100	0.00
25	T	Diisopropyl ether	5.0000	5.2163	-4.3	100	0.00
26	T	Vinyl Acetate	1.0000	0.9123	8.8	100	0.00
27	P	1,1-Dichloroethane	1.0000	1.0391	-3.9	100	0.00
28	T	Ethyl-Tert-Butyl ether	5.0000	5.0127	-0.3	100	0.00
29	T	2-Butanone	-1.0000	0.7237	0.0	100	0.00
30	T	Propionitrile	5.0000	4.4025	11.9	100	0.00
31	T	2,2-Dichloropropane	1.0000	1.0722	-7.2	100	0.00
32	T	cis-1,2-Dichloroethene	1.0000	1.0611	-6.1	100	0.00
33	C	Chloroform	1.0000	1.0237	-2.4	100	0.00
34		1-Bromopropane	1.0000	0.8013	19.9	100	-0.01
35	T	Bromochloromethane	1.0000	1.0560	-5.6	100	0.00
36	T	Tetrahydrofuran	5.0000	5.5360	-10.7	100	0.00
37	S	Dibromofluoromethane	0.5000	0.4791	4.2	100	0.00
38	T	1,1,1-Trichloroethane	1.0000	0.9861	1.4	100	0.00
39	T	Cyclohexane	1.0000	1.0077	-0.8	100	0.00
40	T	1,1-Dichloropropene	1.0000	1.0354	-3.5	100	0.00
41	T	Tert-Amyl-Methyl ether	5.0000	4.9900	0.2	100	0.00
42	T	Carbon Tetrachloride	1.0000	1.0395	-3.9	100	0.00
43	S	1,2-Dichloroethane-d4	0.5000	0.4673	6.5	100	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	1.0000	0.9654	3.5	100	0.00
46	T	Benzene	1.0000	1.0845	-8.4	100	0.00
47	T	Trichloroethene	1.0000	0.9919	0.8	100	0.00
48	T	Methylcyclohexane	-1.0000	1.0383	0.0	100	0.00
49	C	1,2-Dichloropropane	1.0000	1.0138	-1.4	100	0.00
50	T	Bromodichloromethane	1.0000	0.9454	5.5	100	0.00
51	T	1,4-Dioxane	-1.0000	0.0000	0.0	0	-11.71#
52	T	Dibromomethane	1.0000	0.9392	6.1	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	0.8122	0.0	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	0.9270	0.0	100	0.00

(#) = Out of Range
8M407749.D 8260WT.M Thu Oct 01 09:03:41 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\093015\8M407749.D Vial: 5
Acq On : 30 Sep 2015 11:32 Operator: TMB
Sample : WG540912-04 1ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
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	cis-1,3-Dichloropropene	1.0000	0.9770	2.3	100	0.00
56	T	Dimethyl Disulfide	-1.0000	0.6944	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	0.5000	0.5140	-2.8	100	0.00
59	C	Toluene	1.0000	1.0968	-9.7	100	0.00
60	T	Ethyl Methacrylate	1.0000	0.8083	19.2	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	1.0000	0.8772	12.3	100	0.00
63	T	1,1,2-Trichloroethane	1.0000	0.9440	5.6	100	0.00
64	T	2-Hexanone	-1.0000	0.7271	0.0	100	0.00
65	T	1,3-Dichloropropane	1.0000	1.0325	-3.2	100	0.00
66	T	Tetrachloroethene	1.0000	1.1099	-11.0	100	0.00
67	T	Dibromochloromethane	1.0000	0.9053	9.5	100	0.00
68	T	1,2-Dibromoethane	1.0000	0.9375	6.3	100	0.00
69	T	1-Chlorohexane	1.0000	1.0418	-4.2	100	0.00
70	P	Chlorobenzene	1.0000	1.0276	-2.8	100	0.00
71	T	1,1,1,2-Tetrachloroethane	1.0000	0.9220	7.8	100	0.00
72	C	Ethylbenzene	1.0000	0.9884	1.2	100	0.00
73	T	m-,p-Xylene	2.0000	2.1129	-5.6	100	0.00
74	T	o-Xylene	1.0000	1.0723	-7.2	100	0.00
75	T	Styrene	1.0000	0.9921	0.8	100	0.00
76	P	Bromoform	1.0000	0.8135	18.6	100	0.00
77	T	Isopropylbenzene	1.0000	1.1090	-10.9	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	1.0000	0.9344	6.6	100	0.00
80	S	p-Bromofluorobenzene	-1.0000	0.5212	0.0	100	0.00
81	T	1,2,3-Trichloropropane	1.0000	0.9129	8.7	100	0.01
82	T	trans-1,4-Dichloro-2-Butene	1.0000	0.9707	2.9	100	0.00
83	T	n-Propylbenzene	1.0000	1.1228	-12.3	100	0.00
84	T	Bromobenzene	1.0000	1.0819	-8.2	100	0.00
85	T	1,3,5-Trimethylbenzene	1.0000	1.1173	-11.7	100	0.00
86	T	2-Chlorotoluene	1.0000	1.1312	-13.1	100	0.00
87	T	4-Chlorotoluene	1.0000	1.1519	-15.2	100	0.00
88	T	a-Methylstyrene	-1.0000	0.9213	0.0	100	0.00
89	T	tert-Butylbenzene	1.0000	1.0116	-1.2	100	0.00
90	T	1,2,4-Trimethylbenzene	1.0000	1.0890	-8.9	100	0.00
91	T	sec-Butylbenzene	1.0000	1.1009	-10.1	100	0.00
92	T	p-Isopropyltoluene	1.0000	1.0885	-8.8	100	0.00
93	T	1,3-Dichlorobenzene	1.0000	1.0825	-8.3	100	0.00
94	T	1,4-Dichlorobenzene	1.0000	1.0848	-8.5	100	0.00
95	T	n-Butylbenzene	1.0000	1.0913	-9.1	100	0.00
96	T	1,2-Dichlorobenzene	1.0000	1.0926	-9.3	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	-1.0000	0.6745	0.0	100	0.00
98	T	1,2,4-Trichlorobenzene	1.0000	0.9733	2.7	100	0.00
99	T	Hexachlorobutadiene	1.0000	0.9749	2.5	100	0.00
100	T	Naphthalene	1.0000	1.0353	-3.5	100	0.00
101	T	1,2,3-Trichlorobenzene	1.0000	1.0542	-5.4	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M407749.D 8260WT.M Thu Oct 01 09:03:41 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407750.D Vial: 6
Acq On : 30 Sep 2015 12:01 Operator: TMB
Sample : WG540912-05 2ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:02:58 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	857795	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	621989	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	331050	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	7870	0.9640	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	3.84%#		
43) 1,2-Dichloroethane-d4	10.31	65	8146	0.9786	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	3.92%#		
58) Toluene-d8	12.69	98	28719	0.9951	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	4.00%#		
80) p-Bromofluorobenzene	16.08	95	11108	0.9617	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	3.84%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	24621	1.8880	ug/L	100
3) Chloromethane	3.63	50	42586	2.1401	ug/L	97
4) Vinyl Chloride	3.85	62	31937	2.0310	ug/L	99
5) 1,3-Butadiene	3.91	54	30141	Below Cal		88
6) Bromomethane	4.74	94	6766	1.9768	ug/L	94
7) Chloroethane	4.91	64	12659	1.9733	ug/L	96
8) Trichlorofluoromethane	5.38	101	28876	1.9000	ug/L	97
9) Diethyl ether	5.92	59	144653	24.7287	ug/L	99
10) Isoprene	5.96	67	19444	1.7426	ug/L	93
11) Acrolein	6.16	56	8940	12.3146	ug/L	93
12) 1,1,2-Trichloro-1,2,2-Trif	6.18	101	15681	1.9194	ug/L	94
13) Acetone	6.26	43	2409	1.8921	ug/L #	64
14) 1,1-Dichloroethene	6.48	61	26153	1.8806	ug/L	99
15) Tert-Butyl Alcohol	6.59	59	18302	48.6497	ug/L	92
16) Dimethyl Sulfide	6.74	62	15350	1.9232	ug/L	95
17) Iodomethane	7.00	142	3232	2.4020	ug/L	84
18) Methyl acetate	7.02	43	9921	2.0606	ug/L #	85
19) Methylene Chloride	7.26	84	16259	1.8825	ug/L	97
20) Carbon Disulfide	7.31	76	54440	1.9303	ug/L	99
21) Acrylonitrile	7.44	53	21507	11.2525	ug/L	94
22) Methyl Tert Butyl Ether	7.48	73	29739	1.8164	ug/L	97
23) trans-1,2-Dichloroethene	7.72	61	24958	1.8898	ug/L	96
24) n-Hexane	7.79	57	24980	1.9147	ug/L	97
25) Diisopropyl ether	8.13	45	841489	25.8476	ug/L	99
26) Vinyl Acetate	8.31	43	16251	1.8782	ug/L	100
27) 1,1-Dichloroethane	8.34	63	33045	1.9704	ug/L	98
28) Ethyl-Tert-Butyl ether	8.71	59	646426	25.2090	ug/L	97
29) 2-Butanone	8.90	43	4029	1.8368	ug/L #	78
30) Propionitrile	9.00	54	16194	25.1609	ug/L	94
31) 2,2-Dichloropropane	9.11	77	26768	1.9098	ug/L	99
32) cis-1,2-Dichloroethene	9.18	96	18545	1.9681	ug/L	95
33) Chloroform	9.38	83	30928	1.9414	ug/L	97
34) 1-Bromopropane	9.52	122	3050	1.9711	ug/L	88
35) Bromochloromethane	9.62	130	8600	1.8540	ug/L	95
36) Tetrahydrofuran	9.64	42	35553	24.6915	ug/L	97
38) 1,1,1-Trichloroethane	9.91	97	26263	1.8366	ug/L	99
39) Cyclohexane	9.94	56	32415	1.9049	ug/L	94
40) 1,1-Dichloropropene	10.12	75	21975	1.7848	ug/L	99
41) Tert-Amyl-Methyl ether	10.22	73	473187	24.8880	ug/L	98
42) Carbon Tetrachloride	10.26	117	23450	1.8349	ug/L	100

(#) = qualifier out of range (m) = manual integration
8M407750.D 8260WT.M Thu Oct 01 09:02:59 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407750.D Vial: 6
Acq On : 30 Sep 2015 12:01 Operator: TMB
Sample : WG540912-05 2ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:02:58 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

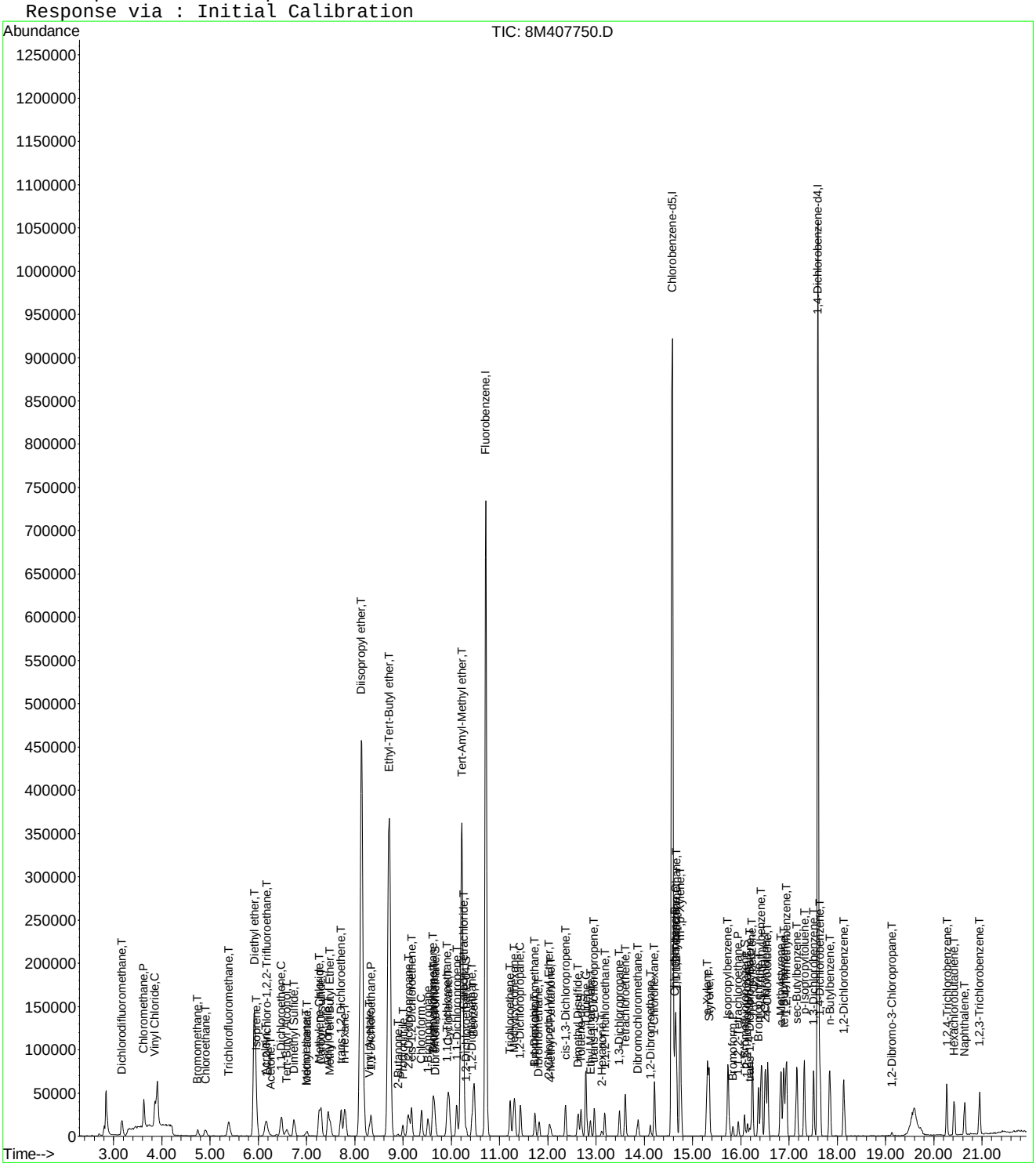
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	20835	1.9046	ug/L		100
46)	Benzene	10.47	78	69691	2.0629	ug/L		98
47)	Trichloroethene	11.22	130	17472	1.9211	ug/L		95
48)	Methylcyclohexane	11.31	83	26751	1.9010	ug/L		97
49)	1,2-Dichloropropane	11.43	63	17329	1.9040	ug/L		100
50)	Bromodichloromethane	11.73	83	21972	1.8704	ug/L		98
51)	1,4-Dioxane	11.73	88	1992	47.5413	ug/L		73
52)	Dibromomethane	11.81	93	8300	1.9152	ug/L		98
53)	2-Chloroethyl Vinyl Ether	12.03	63	6643	1.7709	ug/L		100
54)	4-Methyl-2-Pentanone	12.06	58	3171	1.6478	ug/L	#	76
55)	cis-1,3-Dichloropropene	12.37	75	24382	1.8697	ug/L		98
56)	Dimethyl Disulfide	12.63	79	9241	1.3142	ug/L		100
59)	Toluene	12.79	91	75292	2.1303	ug/L		97
60)	Ethyl Methacrylate	12.89	69	12345	1.7519	ug/L		94
62)	trans-1,3-Dichloropropene	12.96	75	19728	1.8194	ug/L		100
63)	1,1,2-Trichloroethane	13.19	97	11042	1.9683	ug/L		95
64)	2-Hexanone	13.12	58	3024	1.7146	ug/L	#	92
65)	1,3-Dichloropropane	13.49	76	19190	1.9142	ug/L		97
66)	Tetrachloroethene	13.61	164	14596	1.9426	ug/L		96
67)	Dibromochloromethane	13.87	129	13023	1.7955	ug/L		100
68)	1,2-Dibromoethane	14.13	107	10033	1.7914	ug/L		93
69)	1-Chlorohexane	14.21	91	24696	1.9527	ug/L		99
70)	Chlorobenzene	14.63	112	47264	1.9957	ug/L		81
71)	1,1,1,2-Tetrachloroethane	14.66	131	16097	1.8383	ug/L		99
72)	Ethylbenzene	14.65	106	25517	1.8496	ug/L		99
73)	m-,p-Xylene	14.75	106	64368	4.0684	ug/L		99
74)	o-Xylene	15.30	106	30646	1.9155	ug/L		99
75)	Styrene	15.35	104	48909	1.9294	ug/L		99
76)	Bromoform	15.84	173	7198	1.6508	ug/L		99
77)	Isopropylbenzene	15.73	105	79109	2.0612	ug/L		99
79)	1,1,2,2-Tetrachloroethane	15.95	83	11848	1.9398	ug/L	#	95
81)	1,2,3-Trichloropropane	16.13	110	3207	1.8896	ug/L		68
82)	trans-1,4-Dichloro-2-Buten	16.18	53	3210	1.4302	ug/L	#	22
83)	n-Propylbenzene	16.24	91	96558	2.0145	ug/L		99
84)	Bromobenzene	16.37	156	19644	2.0190	ug/L		97
85)	1,3,5-Trimethylbenzene	16.42	105	67207	2.0394	ug/L		95
86)	2-Chlorotoluene	16.51	91	64870	2.0434	ug/L		98
87)	4-Chlorotoluene	16.56	91	58369	2.1259	ug/L		98
88)	a-Methylstyrene	16.83	118	31799	1.7701	ug/L		97
89)	tert-Butylbenzene	16.90	134	13942	1.9232	ug/L		92
90)	1,2,4-Trimethylbenzene	16.95	105	68650	2.0616	ug/L		98
91)	sec-Butylbenzene	17.17	105	82325	2.0111	ug/L		98
92)	p-Isopropyltoluene	17.32	119	68961	2.1070	ug/L		100
93)	1,3-Dichlorobenzene	17.51	146	37945	1.9539	ug/L		98
94)	1,4-Dichlorobenzene	17.64	146	37796	1.9544	ug/L		82
95)	n-Butylbenzene	17.85	91	60131	1.9708	ug/L		100
96)	1,2-Dichlorobenzene	18.14	146	34109	2.0073	ug/L		100
97)	1,2-Dibromo-3-Chloropropan	19.14	75	1806	1.6873	ug/L		98
98)	1,2,4-Trichlorobenzene	20.28	180	22341	1.9136	ug/L		97
99)	Hexachlorobutadiene	20.42	225	11201	2.0059	ug/L		99
100)	Naphthalene	20.64	128	34803	2.0620	ug/L		98
101)	1,2,3-Trichlorobenzene	20.95	180	19034	1.9119	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M407750.D 8260WT.M Thu Oct 01 09:02:59 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407750.D Vial: 6
Acq On : 30 Sep 2015 12:01 Operator: TMB
Sample : WG540912-05 2ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 9:02 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration



8M407750.D 8260WT.M Thu Oct 01 09:02:59 2015 Page 3

Data File : C:\MSDCHEM\2\DATA\093015\8M407750.D Vial: 6
Acq On : 30 Sep 2015 12:01 Operator: TMB
Sample : WG540912-05 2ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
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	2.0000	1.8880	5.6	100	0.00
3	P	Chloromethane	2.0000	2.1401	-7.0	100	0.00
4	C	Vinyl Chloride	2.0000	2.0310	-1.5	100	0.00
5	T	1,3-Butadiene	-1.0000	-1.0000	0.0	0	0.02
6	T	Bromomethane	2.0000	1.9768	1.2	100	0.00
7	T	Chloroethane	2.0000	1.9733	1.3	100	0.00
8	T	Trichlorofluoromethane	2.0000	1.9000	5.0	100	0.00
9	T	Diethyl ether	25.0000	24.7287	1.1	100	0.00
10	T	Isoprene	2.0000	1.7426	12.9	100	0.00
11	T	Acrolein	12.5000	12.3146	1.5	100	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	2.0000	1.9194	4.0	100	0.02
13	T	Acetone	-1.0000	1.8921	0.0	100	0.02
14	C	1,1-Dichloroethene	2.0000	1.8806	6.0	100	0.00
15	T	Tert-Butyl Alcohol	50.0000	48.6497	2.7	100	0.00
16	T	Dimethyl Sulfide	2.0000	1.9232	3.8	100	0.00
17	T	Iodomethane	2.0000	2.4020	-20.1	100	0.00
18	T	Methyl acetate	-1.0000	2.0606	0.0	100	0.00
19	T	Methylene Chloride	2.0000	1.8825	5.9	100	0.00
20	T	Carbon Disulfide	2.0000	1.9303	3.5	100	0.00
21	T	Acrylonitrile	12.5000	11.2525	10.0	100	0.00
22	T	Methyl Tert Butyl Ether	2.0000	1.8163	9.2	100	0.00
23	T	trans-1,2-Dichloroethene	2.0000	1.8898	5.5	100	0.00
24	T	n-Hexane	-1.0000	1.9147	0.0	100	0.00
25	T	Diisopropyl ether	25.0000	25.8476	-3.4	100	0.00
26	T	Vinyl Acetate	2.0000	1.8782	6.1	100	0.00
27	P	1,1-Dichloroethane	2.0000	1.9704	1.5	100	0.00
28	T	Ethyl-Tert-Butyl ether	25.0000	25.2090	-0.8	100	0.00
29	T	2-Butanone	-1.0000	1.8368	0.0	100	0.00
30	T	Propionitrile	25.0000	25.1609	-0.6	100	0.00
31	T	2,2-Dichloropropane	2.0000	1.9099	4.5	100	0.00
32	T	cis-1,2-Dichloroethene	2.0000	1.9681	1.6	100	0.00
33	C	Chloroform	2.0000	1.9414	2.9	100	0.00
34		1-Bromopropane	2.0000	1.9711	1.4	100	0.00
35	T	Bromochloromethane	2.0000	1.8540	7.3	100	0.00
36	T	Tetrahydrofuran	25.0000	24.6915	1.2	100	0.00
37	S	Dibromofluoromethane	1.0000	0.9640	3.6	100	0.00
38	T	1,1,1-Trichloroethane	2.0000	1.8366	8.2	100	0.00
39	T	Cyclohexane	2.0000	1.9049	4.8	100	0.00
40	T	1,1-Dichloropropene	2.0000	1.7848	10.8	100	0.00
41	T	Tert-Amyl-Methyl ether	25.0000	24.8880	0.4	100	0.00
42	T	Carbon Tetrachloride	2.0000	1.8349	8.3	100	0.00
43	S	1,2-Dichloroethane-d4	1.0000	0.9786	2.1	100	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	2.0000	1.9046	4.8	100	0.00
46	T	Benzene	2.0000	2.0629	-3.1	100	0.00
47	T	Trichloroethene	2.0000	1.9211	3.9	100	0.00
48	T	Methylcyclohexane	-1.0000	1.9010	0.0	100	0.00
49	C	1,2-Dichloropropane	2.0000	1.9041	4.8	100	0.00
50	T	Bromodichloromethane	2.0000	1.8704	6.5	100	0.00
51	T	1,4-Dioxane	-1.0000	47.5413	0.0	100	0.01
52	T	Dibromomethane	2.0000	1.9152	4.2	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	1.7709	0.0	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	1.6478	0.0	100	0.00

(#) = Out of Range
8M407750.D 8260WT.M Thu Oct 01 09:03:51 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\093015\8M407750.D Vial: 6
Acq On : 30 Sep 2015 12:01 Operator: TMB
Sample : WG540912-05 2ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
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	cis-1,3-Dichloropropene	2.0000	1.8697	6.5	100	0.00
56	T	Dimethyl Disulfide	-1.0000	1.3142	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	1.0000	0.9951	0.5	100	0.00
59	C	Toluene	2.0000	2.1303	-6.5	100	0.00
60	T	Ethyl Methacrylate	2.0000	1.7519	12.4	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	2.0000	1.8194	9.0	100	0.00
63	T	1,1,2-Trichloroethane	2.0000	1.9683	1.6	100	0.00
64	T	2-Hexanone	-1.0000	1.7146	0.0	100	0.00
65	T	1,3-Dichloropropane	2.0000	1.9142	4.3	100	0.00
66	T	Tetrachloroethene	2.0000	1.9426	2.9	100	0.00
67	T	Dibromochloromethane	2.0000	1.7955	10.2	100	0.00
68	T	1,2-Dibromoethane	2.0000	1.7914	10.4	100	0.00
69	T	1-Chlorohexane	2.0000	1.9527	2.4	100	0.00
70	P	Chlorobenzene	2.0000	1.9957	0.2	100	0.00
71	T	1,1,1,2-Tetrachloroethane	2.0000	1.8383	8.1	100	0.00
72	C	Ethylbenzene	2.0000	1.8496	7.5	100	0.00
73	T	m-,p-Xylene	4.0000	4.0685	-1.7	100	0.00
74	T	o-Xylene	2.0000	1.9155	4.2	100	0.00
75	T	Styrene	2.0000	1.9294	3.5	100	0.00
76	P	Bromoform	2.0000	1.6508	17.5	100	0.00
77	T	Isopropylbenzene	2.0000	2.0612	-3.1	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	2.0000	1.9399	3.0	100	0.00
80	S	p-Bromofluorobenzene	1.0000	0.9617	3.8	100	0.00
81	T	1,2,3-Trichloropropane	2.0000	1.8896	5.5	100	0.00
82	T	trans-1,4-Dichloro-2-Butene	2.0000	1.4302	28.5#	100	0.00
83	T	n-Propylbenzene	2.0000	2.0145	-0.7	100	0.00
84	T	Bromobenzene	2.0000	2.0190	-1.0	100	0.00
85	T	1,3,5-Trimethylbenzene	2.0000	2.0394	-2.0	100	0.00
86	T	2-Chlorotoluene	2.0000	2.0434	-2.2	100	0.00
87	T	4-Chlorotoluene	2.0000	2.1260	-6.3	100	0.00
88	T	a-Methylstyrene	-1.0000	1.7701	0.0	100	0.00
89	T	tert-Butylbenzene	2.0000	1.9232	3.8	100	0.00
90	T	1,2,4-Trimethylbenzene	2.0000	2.0616	-3.1	100	0.00
91	T	sec-Butylbenzene	2.0000	2.0111	-0.6	100	0.00
92	T	p-Isopropyltoluene	2.0000	2.1070	-5.3	100	0.00
93	T	1,3-Dichlorobenzene	2.0000	1.9539	2.3	100	0.00
94	T	1,4-Dichlorobenzene	2.0000	1.9544	2.3	100	0.00
95	T	n-Butylbenzene	2.0000	1.9708	1.5	100	0.00
96	T	1,2-Dichlorobenzene	2.0000	2.0073	-0.4	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	2.0000	1.6873	15.6	100	0.01
98	T	1,2,4-Trichlorobenzene	2.0000	1.9137	4.3	100	0.00
99	T	Hexachlorobutadiene	2.0000	2.0059	-0.3	100	0.00
100	T	Naphthalene	2.0000	2.0620	-3.1	100	0.00
101	T	1,2,3-Trichlorobenzene	2.0000	1.9119	4.4	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M407750.D 8260WT.M Thu Oct 01 09:03:51 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407751.D Vial: 7
Acq On : 30 Sep 2015 12:29 Operator: TMB
Sample : WG540912-06 5ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:02:59 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	888090	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.57	117	648250	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	345626	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.68	111	20923	2.4754	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	9.92%#		
43) 1,2-Dichloroethane-d4	10.31	65	20861	2.4207	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	9.68%#		
58) Toluene-d8	12.69	98	74103	2.4637	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	9.84%#		
80) p-Bromofluorobenzene	16.08	95	29759	2.4677	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	9.88%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.18	85	61437	4.5504	ug/L	99
3) Chloromethane	3.62	50	104260	5.0607	ug/L	99
4) Vinyl Chloride	3.85	62	81501	5.0061	ug/L	99
5) 1,3-Butadiene	3.90	54	73714	3.6389	ug/L	95
6) Bromomethane	4.75	94	17849	3.9647	ug/L	99
7) Chloroethane	4.90	64	33514	5.0459	ug/L	97
8) Trichlorofluoromethane	5.39	101	77150	4.9031	ug/L	97
9) Diethyl ether	5.91	59	300564	49.6291	ug/L	100
10) Isoprene	5.96	67	53581	4.6382	ug/L	98
11) Acrolein	6.15	56	18363	24.4317	ug/L	87
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	41910	4.9550	ug/L	97
13) Acetone	6.24	43	6790	5.1511	ug/L	97
14) 1,1-Dichloroethene	6.48	61	70653	4.9071	ug/L	98
15) Tert-Butyl Alcohol	6.59	59	39888	102.4118	ug/L	97
16) Dimethyl Sulfide	6.74	62	39764	4.8120	ug/L	98
17) Iodomethane	6.99	142	14332	4.3281	ug/L	92
18) Methyl acetate	7.01	43	26384	5.2931	ug/L	89
19) Methylene Chloride	7.26	84	43891	4.9083	ug/L	98
20) Carbon Disulfide	7.30	76	142074	4.8658	ug/L	100
21) Acrylonitrile	7.44	53	46132	23.3129	ug/L	95
22) Methyl Tert Butyl Ether	7.48	73	85068	5.0184	ug/L	96
23) trans-1,2-Dichloroethene	7.71	61	67170	4.9126	ug/L	98
24) n-Hexane	7.79	57	65873	4.8769	ug/L	97
25) Diisopropyl ether	8.14	45	1713583	50.8397	ug/L	99
26) Vinyl Acetate	8.30	43	46988	5.2454	ug/L	94
27) 1,1-Dichloroethane	8.33	63	86979	5.0094	ug/L	99
28) Ethyl-Tert-Butyl ether	8.71	59	1342420	50.5651	ug/L	97
29) 2-Butanone	8.90	43	10887	4.7939	ug/L	94
30) Propionitrile	8.99	54	33524	50.3101	ug/L	100
31) 2,2-Dichloropropane	9.11	77	70912	4.8868	ug/L	98
32) cis-1,2-Dichloroethene	9.18	96	48210	4.9417	ug/L	98
33) Chloroform	9.39	83	82654	5.0114	ug/L	100
34) 1-Bromopropane	9.52	122	8041	5.0194	ug/L	98
35) Bromochloromethane	9.61	130	24188	5.0366	ug/L	100
36) Tetrahydrofuran	9.63	42	73084	49.0254	ug/L	96
38) 1,1,1-Trichloroethane	9.91	97	73396	4.9576	ug/L	97
39) Cyclohexane	9.94	56	83438	4.7361	ug/L	98
40) 1,1-Dichloropropene	10.11	75	62637	4.9139	ug/L	98
41) Tert-Amyl-Methyl ether	10.21	73	983884	49.9837	ug/L	99
42) Carbon Tetrachloride	10.25	117	62444	4.7194	ug/L	98

(#) = qualifier out of range (m) = manual integration
8M407751.D 8260WT.M Thu Oct 01 09:03:00 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407751.D Vial: 7
Acq On : 30 Sep 2015 12:29 Operator: TMB
Sample : WG540912-06 5ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:02:59 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

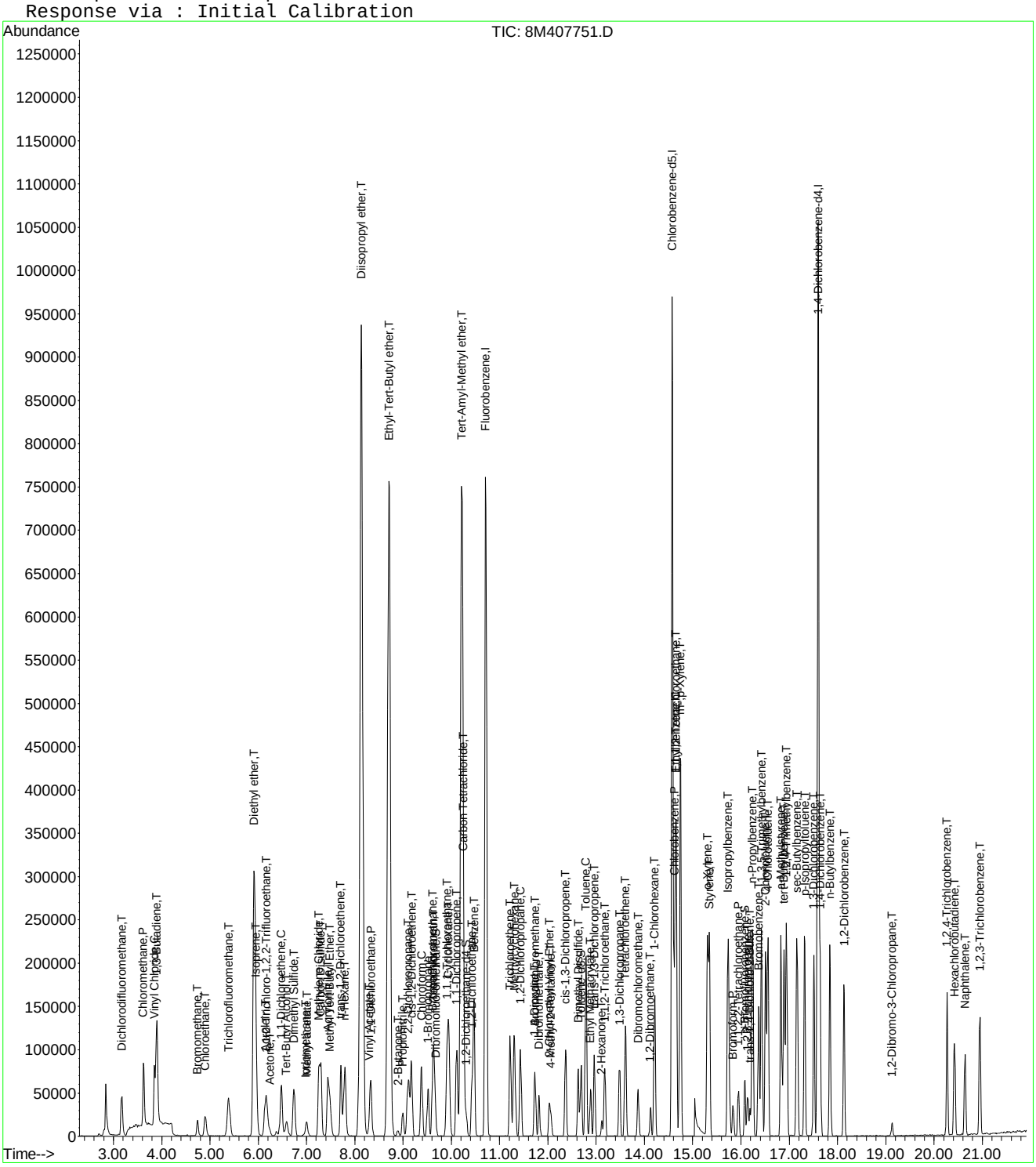
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	56848	5.0193	ug/L		98
46)	Benzene	10.47	78	179728	5.1385	ug/L		99
47)	Trichloroethene	11.22	130	44015	4.6746	ug/L		94
48)	Methylcyclohexane	11.31	83	71852	4.9318	ug/L		97
49)	1,2-Dichloropropane	11.43	63	47121	5.0009	ug/L		94
50)	Bromodichloromethane	11.73	83	58514	4.8112	ug/L		100
51)	1,4-Dioxane	11.72	88	3839	88.4965	ug/L		92
52)	Dibromomethane	11.82	93	23054	5.1382	ug/L		98
53)	2-Chloroethyl Vinyl Ether	12.03	63	17693	4.5557	ug/L		96
54)	4-Methyl-2-Pentanone	12.06	58	9027	4.5309	ug/L		94
55)	cis-1,3-Dichloropropene	12.36	75	64722	4.7938	ug/L		99
56)	Dimethyl Disulfide	12.63	79	28062	3.8546	ug/L		100
59)	Toluene	12.79	91	189538	5.1455	ug/L		99
60)	Ethyl Methacrylate	12.88	69	35620	4.8502	ug/L		96
62)	trans-1,3-Dichloropropene	12.96	75	55720	4.9306	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	30150	5.1568	ug/L		98
64)	2-Hexanone	13.12	58	8027	4.3668	ug/L	#	80
65)	1,3-Dichloropropane	13.49	76	51742	4.9522	ug/L		96
66)	Tetrachloroethene	13.60	164	38521	4.9192	ug/L		98
67)	Dibromochloromethane	13.87	129	36922	4.8844	ug/L		98
68)	1,2-Dibromoethane	14.12	107	29112	4.9874	ug/L		100
69)	1-Chlorohexane	14.21	91	64380	4.8843	ug/L		97
70)	Chlorobenzene	14.63	112	122342	4.9567	ug/L		94
71)	1,1,1,2-Tetrachloroethane	14.66	131	43922	4.8127	ug/L		95
72)	Ethylbenzene	14.66	106	67237	4.6762	ug/L		100
73)	m-,p-Xylene	14.75	106	170940	10.3667	ug/L		99
74)	o-Xylene	15.31	106	78832	4.7276	ug/L		98
75)	Styrene	15.35	104	139834	5.2929	ug/L		98
76)	Bromoform	15.84	173	21291	4.6852	ug/L		96
77)	Isopropylbenzene	15.73	105	206201	5.1551	ug/L		100
79)	1,1,2,2-Tetrachloroethane	15.95	83	33322	5.2257	ug/L		100
81)	1,2,3-Trichloropropane	16.14	110	8869	5.0053	ug/L		63
82)	trans-1,4-Dichloro-2-Buten	16.19	53	10961	4.6777	ug/L	#	1
83)	n-Propylbenzene	16.24	91	264651	5.2887	ug/L		97
84)	Bromobenzene	16.37	156	50669	4.9881	ug/L		97
85)	1,3,5-Trimethylbenzene	16.42	105	180896	5.2579	ug/L		99
86)	2-Chlorotoluene	16.51	91	181035	5.4620	ug/L		100
87)	4-Chlorotoluene	16.56	91	143482	5.0056	ug/L		100
88)	a-Methylstyrene	16.83	118	90467	4.8234	ug/L		99
89)	tert-Butylbenzene	16.89	134	36404	4.8098	ug/L		95
90)	1,2,4-Trimethylbenzene	16.94	105	186780	5.3725	ug/L		95
91)	sec-Butylbenzene	17.16	105	221368	5.1796	ug/L		99
92)	p-Isopropyltoluene	17.32	119	181903	5.3233	ug/L		97
93)	1,3-Dichlorobenzene	17.51	146	104992	5.1783	ug/L		99
94)	1,4-Dichlorobenzene	17.64	146	104006	5.1513	ug/L		96
95)	n-Butylbenzene	17.84	91	169482	5.3206	ug/L		98
96)	1,2-Dichlorobenzene	18.14	146	91565	5.1612	ug/L		100
97)	1,2-Dibromo-3-Chloropropan	19.13	75	5183	4.6382	ug/L		92
98)	1,2,4-Trichlorobenzene	20.27	180	62214	5.1043	ug/L		98
99)	Hexachlorobutadiene	20.42	225	29150	5.0001	ug/L		99
100)	Naphthalene	20.64	128	89499	5.0789	ug/L		97
101)	1,2,3-Trichlorobenzene	20.95	180	52799	5.0798	ug/L		95

(#) = qualifier out of range (m) = manual integration
8M407751.D 8260WT.M Thu Oct 01 09:03:00 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407751.D Vial: 7
Acq On : 30 Sep 2015 12:29 Operator: TMB
Sample : WG540912-06 5ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 9:02 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration



8M407751.D 8260WT.M Thu Oct 01 09:03:00 2015 Page 3

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\093015\8M407751.D Vial: 7
Acq On : 30 Sep 2015 12:29 Operator: TMB
Sample : WG540912-06 5ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
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	5.0000	4.5503	9.0	100	0.00
3	P	Chloromethane	5.0000	5.0607	-1.2	100	0.00
4	C	Vinyl Chloride	5.0000	5.0061	-0.1	100	0.00
5	T	1,3-Butadiene	5.0000	3.6389	27.2#	100	0.01
6	T	Bromomethane	5.0000	3.9647	20.7	100	0.01
7	T	Chloroethane	5.0000	5.0459	-0.9	100	0.00
8	T	Trichlorofluoromethane	5.0000	4.9031	1.9	100	0.00
9	T	Diethyl ether	50.0000	49.6291	0.7	100	0.00
10	T	Isoprene	5.0000	4.6382	7.2	100	0.00
11	T	Acrolein	25.0000	24.4317	2.3	100	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	5.0000	4.9550	0.9	100	0.01
13	T	Acetone	5.0000	5.1511	-3.0	100	0.00
14	C	1,1-Dichloroethene	5.0000	4.9071	1.9	100	0.01
15	T	Tert-Butyl Alcohol	100.0000	102.4118	-2.4	100	0.00
16	T	Dimethyl Sulfide	5.0000	4.8120	3.8	100	0.00
17	T	Iodomethane	5.0000	4.3281	13.4	100	0.00
18	T	Methyl acetate	5.0000	5.2931	-5.9	100	0.00
19	T	Methylene Chloride	5.0000	4.9083	1.8	100	0.00
20	T	Carbon Disulfide	5.0000	4.8658	2.7	100	0.00
21	T	Acrylonitrile	25.0000	23.3129	6.7	100	0.00
22	T	Methyl Tert Butyl Ether	5.0000	5.0184	-0.4	100	0.00
23	T	trans-1,2-Dichloroethene	5.0000	4.9126	1.7	100	0.00
24	T	n-Hexane	5.0000	4.8769	2.5	100	0.00
25	T	Diisopropyl ether	50.0000	50.8397	-1.7	100	0.00
26	T	Vinyl Acetate	5.0000	5.2454	-4.9	100	0.00
27	P	1,1-Dichloroethane	5.0000	5.0094	-0.2	100	0.00
28	T	Ethyl-Tert-Butyl ether	50.0000	50.5651	-1.1	100	0.00
29	T	2-Butanone	5.0000	4.7939	4.1	100	0.00
30	T	Propionitrile	50.0000	50.3101	-0.6	100	0.00
31	T	2,2-Dichloropropane	5.0000	4.8868	2.3	100	0.00
32	T	cis-1,2-Dichloroethene	5.0000	4.9417	1.2	100	0.00
33	C	Chloroform	5.0000	5.0114	-0.2	100	0.00
34		1-Bromopropane	5.0000	5.0194	-0.4	100	0.00
35	T	Bromochloromethane	5.0000	5.0366	-0.7	100	0.00
36	T	Tetrahydrofuran	50.0000	49.0254	1.9	100	0.00
37	S	Dibromofluoromethane	2.5000	2.4754	1.0	100	0.00
38	T	1,1,1-Trichloroethane	5.0000	4.9576	0.8	100	0.00
39	T	Cyclohexane	5.0000	4.7361	5.3	100	0.00
40	T	1,1-Dichloropropene	5.0000	4.9139	1.7	100	0.00
41	T	Tert-Amyl-Methyl ether	50.0000	49.9837	0.0	100	0.00
42	T	Carbon Tetrachloride	5.0000	4.7194	5.6	100	0.00
43	S	1,2-Dichloroethane-d4	2.5000	2.4207	3.2	100	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	5.0000	5.0193	-0.4	100	0.00
46	T	Benzene	5.0000	5.1385	-2.8	100	0.00
47	T	Trichloroethene	5.0000	4.6746	6.5	100	0.00
48	T	Methylcyclohexane	5.0000	4.9318	1.4	100	0.00
49	C	1,2-Dichloropropane	5.0000	5.0009	-0.0	100	0.00
50	T	Bromodichloromethane	5.0000	4.8112	3.8	100	0.00
51	T	1,4-Dioxane	100.0000	88.4965	11.5	100	0.00
52	T	Dibromomethane	5.0000	5.1382	-2.8	100	0.00
53	T	2-Chloroethyl Vinyl Ether	5.0000	4.5557	8.9	100	0.00
54	T	4-Methyl-2-Pentanone	5.0000	4.5309	9.4	100	0.00

(#) = Out of Range
8M407751.D 8260WT.M Thu Oct 01 09:04:04 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\093015\8M407751.D Vial: 7
Acq On : 30 Sep 2015 12:29 Operator: TMB
Sample : WG540912-06 5ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
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	cis-1,3-Dichloropropene	5.0000	4.7938	4.1	100	0.00
56	T	Dimethyl Disulfide	5.0000	3.8546	22.9	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	2.5000	2.4637	1.5	100	0.00
59	C	Toluene	5.0000	5.1455	-2.9	100	0.00
60	T	Ethyl Methacrylate	5.0000	4.8502	3.0	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	5.0000	4.9306	1.4	100	0.00
63	T	1,1,2-Trichloroethane	5.0000	5.1568	-3.1	100	0.00
64	T	2-Hexanone	5.0000	4.3668	12.7	100	0.00
65	T	1,3-Dichloropropane	5.0000	4.9522	1.0	100	0.00
66	T	Tetrachloroethene	5.0000	4.9192	1.6	100	0.00
67	T	Dibromochloromethane	5.0000	4.8844	2.3	100	0.00
68	T	1,2-Dibromoethane	5.0000	4.9874	0.3	100	0.00
69	T	1-Chlorohexane	5.0000	4.8843	2.3	100	0.00
70	P	Chlorobenzene	5.0000	4.9566	0.9	100	0.00
71	T	1,1,1,2-Tetrachloroethane	5.0000	4.8127	3.7	100	0.00
72	C	Ethylbenzene	5.0000	4.6762	6.5	100	0.00
73	T	m-,p-Xylene	10.0000	10.3668	-3.7	100	0.00
74	T	o-Xylene	5.0000	4.7276	5.4	100	0.00
75	T	Styrene	5.0000	5.2929	-5.9	100	0.00
76	P	Bromoform	5.0000	4.6852	6.3	100	0.00
77	T	Isopropylbenzene	5.0000	5.1551	-3.1	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	5.0000	5.2257	-4.5	100	0.00
80	S	p-Bromofluorobenzene	2.5000	2.4677	1.3	100	0.00
81	T	1,2,3-Trichloropropane	5.0000	5.0053	-0.1	100	0.00
82	T	trans-1,4-Dichloro-2-Butene	5.0000	4.6777	6.4	100	0.00
83	T	n-Propylbenzene	5.0000	5.2887	-5.8	100	0.00
84	T	Bromobenzene	5.0000	4.9881	0.2	100	0.00
85	T	1,3,5-Trimethylbenzene	5.0000	5.2579	-5.2	100	0.00
86	T	2-Chlorotoluene	5.0000	5.4620	-9.2	100	0.00
87	T	4-Chlorotoluene	5.0000	5.0056	-0.1	100	0.00
88	T	a-Methylstyrene	5.0000	4.8234	3.5	100	0.00
89	T	tert-Butylbenzene	5.0000	4.8098	3.8	100	0.00
90	T	1,2,4-Trimethylbenzene	5.0000	5.3725	-7.4	100	0.00
91	T	sec-Butylbenzene	5.0000	5.1796	-3.6	100	0.00
92	T	p-Isopropyltoluene	5.0000	5.3233	-6.5	100	0.00
93	T	1,3-Dichlorobenzene	5.0000	5.1783	-3.6	100	0.00
94	T	1,4-Dichlorobenzene	5.0000	5.1513	-3.0	100	0.00
95	T	n-Butylbenzene	5.0000	5.3206	-6.4	100	0.00
96	T	1,2-Dichlorobenzene	5.0000	5.1612	-3.2	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	5.0000	4.6382	7.2	100	0.00
98	T	1,2,4-Trichlorobenzene	5.0000	5.1043	-2.1	100	0.00
99	T	Hexachlorobutadiene	5.0000	5.0001	-0.0	100	0.00
100	T	Naphthalene	5.0000	5.0789	-1.6	100	0.00
101	T	1,2,3-Trichlorobenzene	5.0000	5.0798	-1.6	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M407751.D 8260WT.M Thu Oct 01 09:04:04 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407752.D Vial: 8
Acq On : 30 Sep 2015 12:58 Operator: TMB
Sample : WG540912-07 20ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:03:00 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	900838	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	664231	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	361897	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	87806	10.2414	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 40.96%#			
43) 1,2-Dichloroethane-d4	10.30	65	90496	10.3525	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 41.40%#			
58) Toluene-d8	12.69	98	320320	10.3936	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 41.56%#			
80) p-Bromofluorobenzene	16.08	95	129852	10.2836	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 41.12%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	307188	22.4300	ug/L	99
3) Chloromethane	3.63	50	446213	21.3523	ug/L	99
4) Vinyl Chloride	3.86	62	351710	21.2978	ug/L	98
5) 1,3-Butadiene	3.90	54	312471	26.3405	ug/L	96
6) Bromomethane	4.74	94	92181	17.1959	ug/L	100
7) Chloroethane	4.90	64	145908	21.6572	ug/L	98
8) Trichlorofluoromethane	5.39	101	327782	20.5367	ug/L	97
9) Diethyl ether	5.91	59	471725	76.7890	ug/L	99
10) Isoprene	5.95	67	245212	20.9264	ug/L	96
11) Acrolein	6.15	56	28707	37.6537	ug/L	96
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	175903	20.5024	ug/L	100
13) Acetone	6.24	43	26318	19.6832	ug/L	99
14) 1,1-Dichloroethene	6.48	61	293960	20.1277	ug/L	100
15) Tert-Butyl Alcohol	6.58	59	64085	162.2088	ug/L	99
16) Dimethyl Sulfide	6.74	62	171747	20.4896	ug/L	98
17) Iodomethane	6.99	142	91383	17.6102	ug/L	97
18) Methyl acetate	7.01	43	99926	19.7631	ug/L	96
19) Methylene Chloride	7.27	84	185506	20.4515	ug/L	98
20) Carbon Disulfide	7.30	76	617002	20.8324	ug/L	99
21) Acrylonitrile	7.44	53	77746	38.7331	ug/L	98
22) Methyl Tert Butyl Ether	7.48	73	349527	20.3278	ug/L	99
23) trans-1,2-Dichloroethene	7.71	61	284568	20.5178	ug/L	100
24) n-Hexane	7.79	57	277423	20.2485	ug/L	95
25) Diisopropyl ether	8.13	45	2727543	79.7774	ug/L	99
26) Vinyl Acetate	8.30	43	188420	20.7360	ug/L	99
27) 1,1-Dichloroethane	8.33	63	358235	20.3401	ug/L	98
28) Ethyl-Tert-Butyl ether	8.71	59	2135457	79.2983	ug/L	97
29) 2-Butanone	8.89	43	45574	19.7838	ug/L	99
30) Propionitrile	8.99	54	55835	82.6068	ug/L	99
31) 2,2-Dichloropropane	9.11	77	303356	20.6097	ug/L	100
32) cis-1,2-Dichloroethene	9.18	96	200218	20.2328	ug/L	99
33) Chloroform	9.38	83	343682	20.5429	ug/L	100
34) 1-Bromopropane	9.52	122	34243	21.0727	ug/L	96
35) Bromochloromethane	9.61	130	99523	20.4300	ug/L	98
36) Tetrahydrofuran	9.63	42	116173	76.8270	ug/L	97
38) 1,1,1-Trichloroethane	9.92	97	311675	20.7543	ug/L	99
39) Cyclohexane	9.94	56	363746	20.3546	ug/L	99
40) 1,1-Dichloropropene	10.11	75	271014	20.9603	ug/L	99
41) Tert-Amyl-Methyl ether	10.21	73	1584402	79.3524	ug/L	99
42) Carbon Tetrachloride	10.25	117	279951	20.8588	ug/L	99

(#) = qualifier out of range (m) = manual integration
8M407752.D 8260WT.M Thu Oct 01 09:03:01 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407752.D Vial: 8
Acq On : 30 Sep 2015 12:58 Operator: TMB
Sample : WG540912-07 20ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:03:00 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

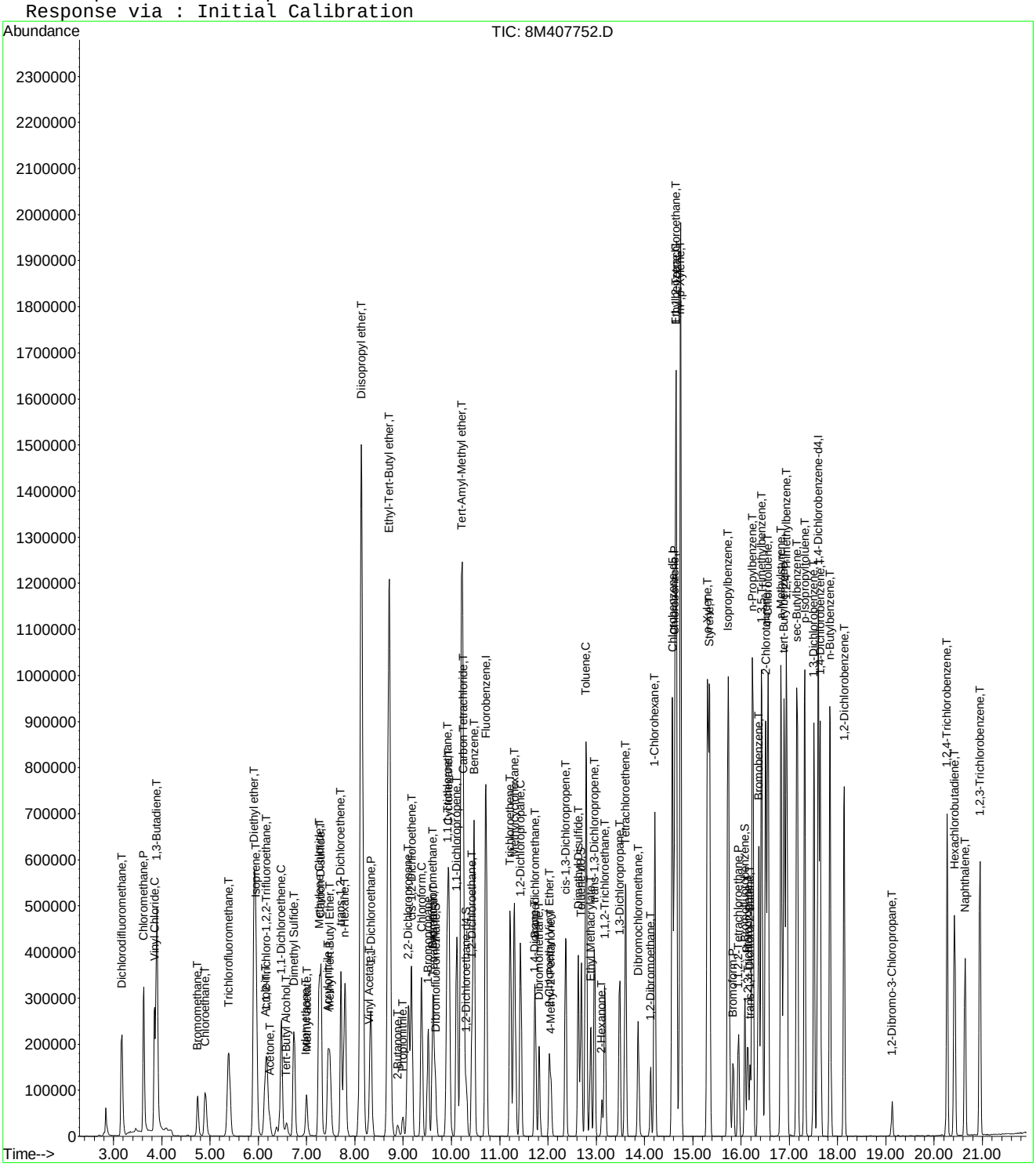
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	239119	20.8138	ug/L		99
46)	Benzene	10.47	78	760303	21.4300	ug/L		100
47)	Trichloroethene	11.21	130	195002	20.4169	ug/L		97
48)	Methylcyclohexane	11.31	83	303425	20.5318	ug/L		99
49)	1,2-Dichloropropane	11.43	63	197896	20.7051	ug/L		96
50)	Bromodichloromethane	11.73	83	257488	20.8717	ug/L		99
51)	1,4-Dioxane	11.72	88	7134	162.1255	ug/L		98
52)	Dibromomethane	11.81	93	95150	20.9065	ug/L		100
53)	2-Chloroethyl Vinyl Ether	12.03	63	78627	19.9589	ug/L		94
54)	4-Methyl-2-Pentanone	12.06	58	39837	19.7122	ug/L		96
55)	cis-1,3-Dichloropropene	12.37	75	286918	20.9506	ug/L		100
56)	Dimethyl Disulfide	12.63	79	136599	18.4979	ug/L		98
59)	Toluene	12.79	91	818164	21.6766	ug/L		99
60)	Ethyl Methacrylate	12.89	69	155537	20.6693	ug/L		93
62)	trans-1,3-Dichloropropene	12.96	75	241309	20.8394	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	122012	20.3666	ug/L		95
64)	2-Hexanone	13.12	58	38289	20.3287	ug/L	#	98
65)	1,3-Dichloropropane	13.49	76	218983	20.4545	ug/L		94
66)	Tetrachloroethene	13.61	164	161585	20.1380	ug/L		98
67)	Dibromochloromethane	13.87	129	161138	20.8040	ug/L		98
68)	1,2-Dibromoethane	14.13	107	123618	20.6684	ug/L		100
69)	1-Chlorohexane	14.21	91	275180	20.3748	ug/L		99
70)	Chlorobenzene	14.62	112	523989	20.7185	ug/L		98
71)	1,1,1,2-Tetrachloroethane	14.66	131	193093	20.6487	ug/L		100
72)	Ethylbenzene	14.66	106	298198	20.2403	ug/L		95
73)	m-,p-Xylene	14.75	106	719109	42.5615	ug/L		99
74)	o-Xylene	15.31	106	347392	20.3322	ug/L		98
75)	Styrene	15.35	104	579322	21.4006	ug/L		98
76)	Bromoform	15.83	173	95340	20.4754	ug/L		99
77)	Isopropylbenzene	15.73	105	903868	22.0533	ug/L		99
79)	1,1,2,2-Tetrachloroethane	15.95	83	141095	21.1321	ug/L		99
81)	1,2,3-Trichloropropane	16.14	110	39490	21.2846	ug/L		63
82)	trans-1,4-Dichloro-2-Buten	16.19	53	50178	20.4511	ug/L	#	61
83)	n-Propylbenzene	16.24	91	1127416	21.5170	ug/L		100
84)	Bromobenzene	16.37	156	221432	20.8188	ug/L		99
85)	1,3,5-Trimethylbenzene	16.42	105	781503	21.6939	ug/L		99
86)	2-Chlorotoluene	16.52	91	761104	21.9308	ug/L		99
87)	4-Chlorotoluene	16.56	91	646199	21.5301	ug/L		100
88)	a-Methylstyrene	16.83	118	407468	20.7481	ug/L		99
89)	tert-Butylbenzene	16.89	134	159496	20.1257	ug/L		95
90)	1,2,4-Trimethylbenzene	16.94	105	796688	21.8854	ug/L		97
91)	sec-Butylbenzene	17.16	105	957105	21.3876	ug/L		98
92)	p-Isopropyltoluene	17.32	119	785233	21.9463	ug/L		97
93)	1,3-Dichlorobenzene	17.51	146	447916	21.0985	ug/L		99
94)	1,4-Dichlorobenzene	17.64	146	435999	20.6235	ug/L		100
95)	n-Butylbenzene	17.84	91	726378	21.7780	ug/L		98
96)	1,2-Dichlorobenzene	18.14	146	388938	20.9374	ug/L		99
97)	1,2-Dibromo-3-Chloropropan	19.13	75	24405	20.8579	ug/L		95
98)	1,2,4-Trichlorobenzene	20.27	180	262199	20.5447	ug/L		99
99)	Hexachlorobutadiene	20.42	225	123628	20.2526	ug/L		97
100)	Naphthalene	20.64	128	366056	19.8392	ug/L		98
101)	1,2,3-Trichlorobenzene	20.95	180	225034	20.6772	ug/L		97

(#) = qualifier out of range (m) = manual integration
8M407752.D 8260WT.M Thu Oct 01 09:03:01 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407752.D Vial: 8
Acq On : 30 Sep 2015 12:58 Operator: TMB
Sample : WG540912-07 20ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 9:03 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407753.D Vial: 9
Acq On : 30 Sep 2015 13:27 Operator: TMB
Sample : WG540912-08 50ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:03:01 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	938292	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	687265	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	378981	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	224039	25.0881	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.36%			
43) 1,2-Dichloroethane-d4	10.31	65	227424	24.9781	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 99.92%			
58) Toluene-d8	12.69	98	816431	25.6033	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.40%			
80) p-Bromofluorobenzene	16.08	95	330422	24.9880	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	734220	51.4707	ug/L	99
3) Chloromethane	3.63	50	1087458	49.9602	ug/L	99
4) Vinyl Chloride	3.84	62	796347	46.2979	ug/L	100
5) 1,3-Butadiene	3.88	54	593404	53.0036	ug/L	96
6) Bromomethane	4.74	94	267289	45.6614	ug/L	98
7) Chloroethane	4.90	64	355876	50.7142	ug/L	98
8) Trichlorofluoromethane	5.38	101	803416	48.3275	ug/L	98
9) Diethyl ether	5.91	59	614294	96.0052	ug/L	99
10) Isoprene	5.95	67	649397	53.2074	ug/L	96
11) Acrolein	6.15	56	37091	46.7086	ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	436438	48.8386	ug/L	100
13) Acetone	6.25	43	62565	44.9246	ug/L	98
14) 1,1-Dichloroethene	6.47	61	726859	47.7821	ug/L	100
15) Tert-Butyl Alcohol	6.59	59	74384	180.7617	ug/L	100
16) Dimethyl Sulfide	6.74	62	442407	50.6728	ug/L	100
17) Iodomethane	7.00	142	280116	48.2985	ug/L	94
18) Methyl acetate	7.01	43	238696	45.3243	ug/L	98
19) Methylene Chloride	7.26	84	457295	48.4030	ug/L	97
20) Carbon Disulfide	7.30	76	1581063	51.2521	ug/L	100
21) Acrylonitrile	7.44	53	103250	49.3859	ug/L	97
22) Methyl Tert Butyl Ether	7.48	73	870767	48.6206	ug/L	98
23) trans-1,2-Dichloroethene	7.71	61	720460	49.8727	ug/L	100
24) n-Hexane	7.79	57	728359	51.0392	ug/L	95
25) Diisopropyl ether	8.13	45	3555432	99.8411	ug/L	99
26) Vinyl Acetate	8.31	43	475013	50.1894	ug/L	99
27) 1,1-Dichloroethane	8.33	63	895300	48.8047	ug/L	98
28) Ethyl-Tert-Butyl ether	8.71	59	2771592	98.8123	ug/L	97
29) 2-Butanone	8.89	43	110691	46.1332	ug/L	100
30) Propionitrile	8.99	54	66254	94.1088	ug/L	99
31) 2,2-Dichloropropane	9.10	77	756513	49.3451	ug/L	100
32) cis-1,2-Dichloroethene	9.18	96	504047	48.9027	ug/L	99
33) Chloroform	9.38	83	862577	49.5006	ug/L	99
34) 1-Bromopropane	9.52	122	89544	52.9047	ug/L	98
35) Bromochloromethane	9.61	130	254810	50.2191	ug/L	97
36) Tetrahydrofuran	9.64	42	144978	92.0491	ug/L	97
38) 1,1,1-Trichloroethane	9.91	97	787445	50.3425	ug/L	98
39) Cyclohexane	9.94	56	942520	50.6365	ug/L	99
40) 1,1-Dichloropropene	10.11	75	670931	49.8186	ug/L	99
41) Tert-Amyl-Methyl ether	10.22	73	2024717	97.3571	ug/L	98
42) Carbon Tetrachloride	10.25	117	709220	50.7337	ug/L	100

(#) = qualifier out of range (m) = manual integration
8M407753.D 8260WT.M Thu Oct 01 09:03:02 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407753.D Vial: 9
Acq On : 30 Sep 2015 13:27 Operator: TMB
Sample : WG540912-08 50ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:03:01 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

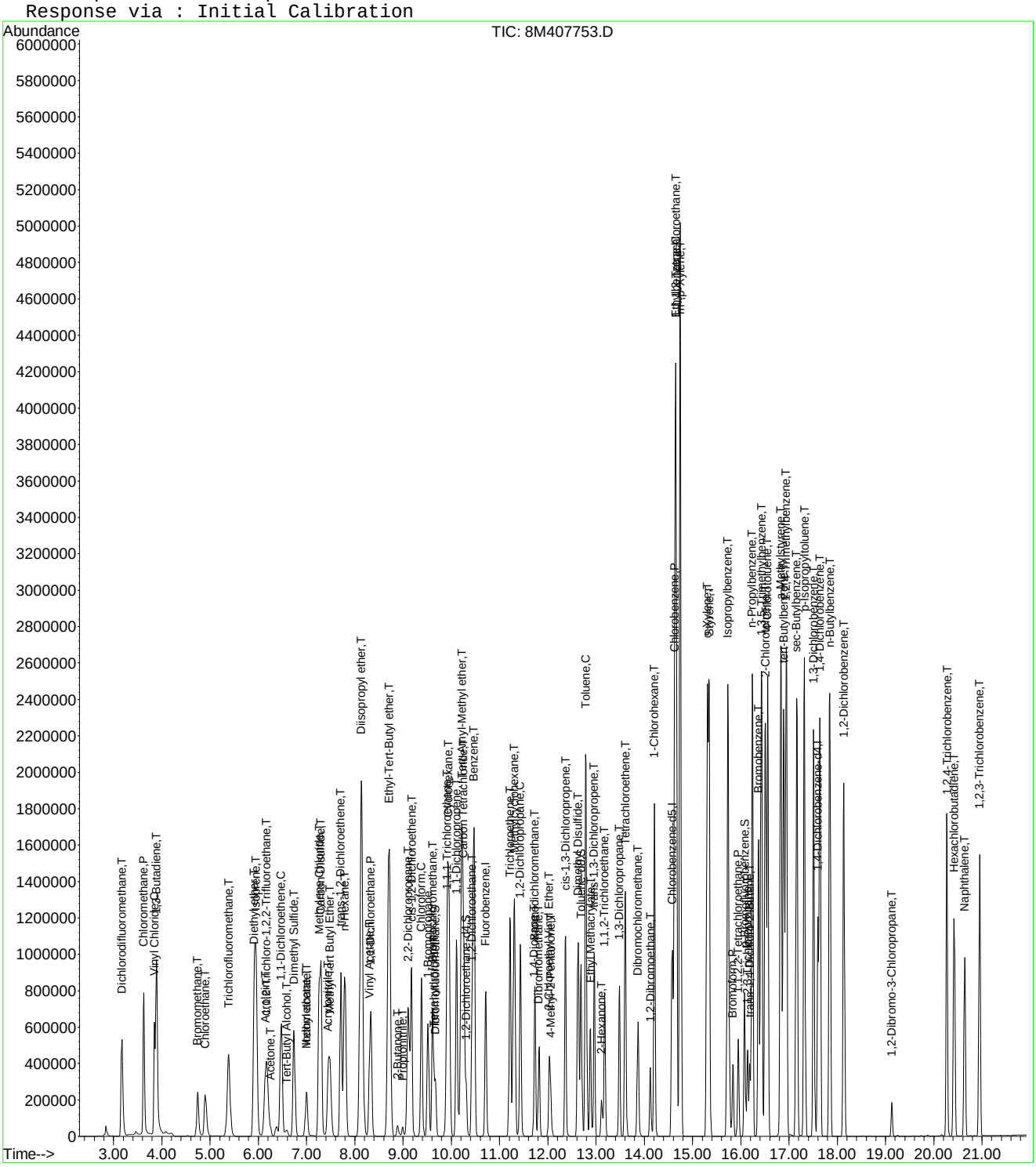
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	598223	49.9929	ug/L		99
46)	Benzene	10.47	78	1893240	51.2329	ug/L		100
47)	Trichloroethene	11.22	130	485477	48.8010	ug/L		96
48)	Methylcyclohexane	11.31	83	782615	50.8431	ug/L		98
49)	1,2-Dichloropropane	11.43	63	493718	49.5940	ug/L		96
50)	Bromodichloromethane	11.73	83	652718	50.7966	ug/L		100
51)	1,4-Dioxane	11.72	88	8670	189.1673	ug/L		94
52)	Dibromomethane	11.81	93	235258	49.6278	ug/L		99
53)	2-Chloroethyl Vinyl Ether	12.03	63	194118	47.3085	ug/L		95
54)	4-Methyl-2-Pentanone	12.06	58	96161	45.6831	ug/L		98
55)	cis-1,3-Dichloropropene	12.37	75	727126	50.9750	ug/L		100
56)	Dimethyl Disulfide	12.63	79	379036	49.2792	ug/L		99
59)	Toluene	12.78	91	1987253	50.8860	ug/L		100
60)	Ethyl Methacrylate	12.89	69	390916	50.2077	ug/L		94
62)	trans-1,3-Dichloropropene	12.96	75	608665	50.8025	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	299502	48.3182	ug/L		97
64)	2-Hexanone	13.11	58	89700	46.0281	ug/L	#	93
65)	1,3-Dichloropropane	13.49	76	534461	48.2492	ug/L		93
66)	Tetrachloroethene	13.61	164	405188	48.8054	ug/L		99
67)	Dibromochloromethane	13.87	129	402200	50.1864	ug/L		100
68)	1,2-Dibromoethane	14.13	107	302616	48.9002	ug/L		99
69)	1-Chlorohexane	14.21	91	715689	51.2148	ug/L		99
70)	Chlorobenzene	14.62	112	1313794	50.2063	ug/L		97
71)	1,1,1,2-Tetrachloroethane	14.65	131	492148	50.8647	ug/L		98
72)	Ethylbenzene	14.65	106	747123	49.0115	ug/L		93
73)	m-,p-Xylene	14.75	106	1803271	103.1521	ug/L		96
74)	o-Xylene	15.31	106	874498	49.4673	ug/L		96
75)	Styrene	15.35	104	1468155	52.4170	ug/L		98
76)	Bromoform	15.83	173	239681	49.7493	ug/L		99
77)	Isopropylbenzene	15.73	105	2208758	52.0848	ug/L		99
79)	1,1,2,2-Tetrachloroethane	15.95	83	337508	48.2706	ug/L		99
81)	1,2,3-Trichloropropane	16.14	110	93694	48.2234	ug/L		58
82)	trans-1,4-Dichloro-2-Buten	16.18	53	127917	49.7850	ug/L	#	74
83)	n-Propylbenzene	16.24	91	2732764	49.8043	ug/L		99
84)	Bromobenzene	16.37	156	550772	49.4486	ug/L		98
85)	1,3,5-Trimethylbenzene	16.43	105	1956096	51.8518	ug/L		100
86)	2-Chlorotoluene	16.51	91	1847698	50.8405	ug/L		100
87)	4-Chlorotoluene	16.56	91	1636735	52.0745	ug/L		99
88)	a-Methylstyrene	16.82	118	1062639	51.6698	ug/L		99
89)	tert-Butylbenzene	16.89	134	402620	48.5137	ug/L		95
90)	1,2,4-Trimethylbenzene	16.94	105	1998748	52.4314	ug/L		99
91)	sec-Butylbenzene	17.16	105	2351971	50.1881	ug/L		97
92)	p-Isopropyltoluene	17.32	119	1971230	52.6100	ug/L		96
93)	1,3-Dichlorobenzene	17.51	146	1112381	50.0352	ug/L		99
94)	1,4-Dichlorobenzene	17.64	146	1089923	49.2313	ug/L		99
95)	n-Butylbenzene	17.85	91	1881534	53.8685	ug/L		98
96)	1,2-Dichlorobenzene	18.14	146	962067	49.4555	ug/L		100
97)	1,2-Dibromo-3-Chloropropan	19.13	75	59325	48.4169	ug/L		96
98)	1,2,4-Trichlorobenzene	20.28	180	685856	51.3179	ug/L		99
99)	Hexachlorobutadiene	20.42	225	316117	49.4515	ug/L		99
100)	Naphthalene	20.64	128	945131	48.9144	ug/L		99
101)	1,2,3-Trichlorobenzene	20.95	180	577810	50.6987	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M407753.D 8260WT.M Thu Oct 01 09:03:02 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407753.D Vial: 9
Acq On : 30 Sep 2015 13:27 Operator: TMB
Sample : WG540912-08 50ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 9:03 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407754.D Vial: 10
Acq On : 30 Sep 2015 13:56 Operator: TMB
Sample : WG540912-09 100ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:03:03 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	999044	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	721896	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	401543	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	492634	51.8109	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 207.24%#			
43) 1,2-Dichloroethane-d4	10.31	65	502331	51.8164	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 207.28%#			
58) Toluene-d8	12.69	98	1777410	53.0657	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 212.28%#			
80) p-Bromofluorobenzene	16.08	95	722720	51.5844	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 206.32%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	1648287	108.5226	ug/L	99
3) Chloromethane	3.63	50	2312431	99.7777	ug/L	98
4) Vinyl Chloride	3.84	62	1625053	88.7319	ug/L	99
5) 1,3-Butadiene	3.89	54	991629	90.8465	ug/L	91
6) Bromomethane	4.74	94	694277	105.6792	ug/L	99
7) Chloroethane	4.90	64	792001	106.0011	ug/L	98
8) Trichlorofluoromethane	5.38	101	1823452	103.0152	ug/L	99
9) Diethyl ether	5.91	59	1404955	206.2217	ug/L	99
10) Isoprene	5.95	67	1448354	111.4525	ug/L	95
11) Acrolein	6.15	56	85817	101.4974	ug/L	95
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	1002514	105.3622	ug/L	99
13) Acetone	6.25	43	134519	90.7172	ug/L	96
14) 1,1-Dichloroethene	6.48	61	1674359	103.3754	ug/L	100
15) Tert-Butyl Alcohol	6.59	59	170829	389.8897	ug/L	98
16) Dimethyl Sulfide	6.74	62	987415	106.2200	ug/L	99
17) Iodomethane	7.00	142	688771	109.1615	ug/L	94
18) Methyl acetate	7.01	43	547190	97.5838	ug/L	98
19) Methylene Chloride	7.27	84	1012557	100.6582	ug/L	98
20) Carbon Disulfide	7.30	76	3453967	105.1559	ug/L	99
21) Acrylonitrile	7.44	53	233747	105.0056	ug/L	100
22) Methyl Tert Butyl Ether	7.47	73	1985878	104.1417	ug/L	99
23) trans-1,2-Dichloroethene	7.71	61	1633107	106.1748	ug/L	100
24) n-Hexane	7.79	57	1613498	106.1891	ug/L	96
25) Diisopropyl ether	8.13	45	7594269	200.2886	ug/L	96
26) Vinyl Acetate	8.31	43	1012138	100.4384	ug/L	99
27) 1,1-Dichloroethane	8.33	63	2013235	103.0722	ug/L	98
28) Ethyl-Tert-Butyl ether	8.71	59	6110510	204.6032	ug/L	99
29) 2-Butanone	8.89	43	258564	101.2099	ug/L	99
30) Propionitrile	8.99	54	152397	203.3049	ug/L	100
31) 2,2-Dichloropropane	9.11	77	1712102	104.8844	ug/L	100
32) cis-1,2-Dichloroethene	9.18	96	1120623	102.1115	ug/L	99
33) Chloroform	9.38	83	1894369	102.1012	ug/L	98
34) 1-Bromopropane	9.52	122	192894	107.0360	ug/L	100
35) Bromochloromethane	9.61	130	566755	104.9063	ug/L	99
36) Tetrahydrofuran	9.64	42	322938	192.5707	ug/L	97
38) 1,1,1-Trichloroethane	9.91	97	1794082	107.7235	ug/L	98
39) Cyclohexane	9.94	56	2109904	106.4606	ug/L	99
40) 1,1-Dichloropropene	10.11	75	1527222	106.5049	ug/L	99
41) Tert-Amyl-Methyl ether	10.22	73	4505369	203.4638	ug/L	97
42) Carbon Tetrachloride	10.25	117	1635708	109.8941	ug/L	100

(#) = qualifier out of range (m) = manual integration
8M407754.D 8260WT.M Thu Oct 01 09:03:03 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407754.D Vial: 10
Acq On : 30 Sep 2015 13:56 Operator: TMB
Sample : WG540912-09 100ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:03:03 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

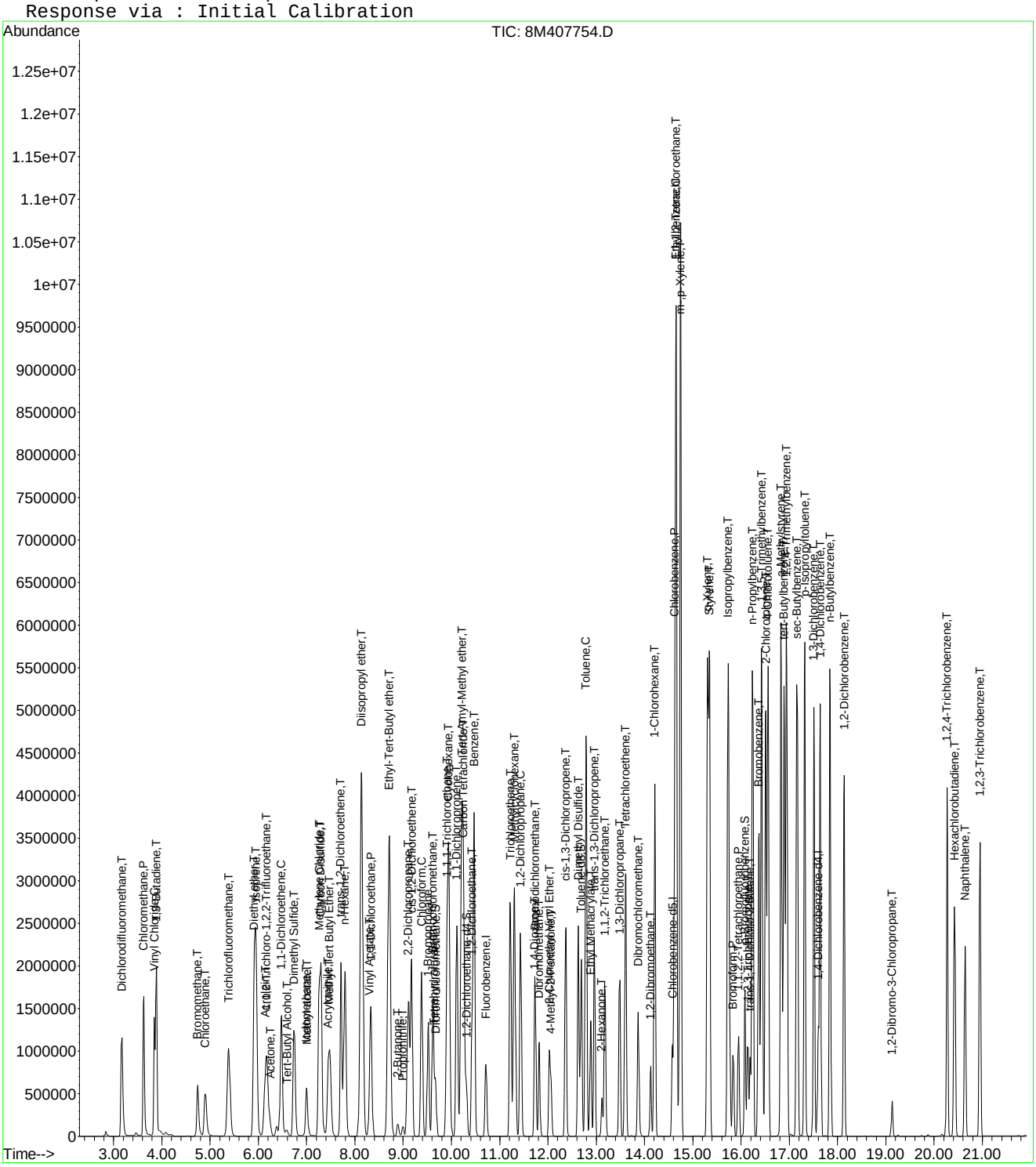
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	1351252	106.0560 ug/L		99
46)	Benzene	10.47	78	4063079	103.2647 ug/L		97
47)	Trichloroethene	11.22	130	1102366	104.0732 ug/L		97
48)	Methylcyclohexane	11.31	83	1719853	104.9371 ug/L		98
49)	1,2-Dichloropropane	11.43	63	1111363	104.8478 ug/L		95
50)	Bromodichloromethane	11.73	83	1456240	106.4376 ug/L		99
51)	1,4-Dioxane	11.72	88	18255	374.0781 ug/L		91
52)	Dibromomethane	11.81	93	520924	103.2069 ug/L		98
53)	2-Chloroethyl Vinyl Ether	12.03	63	448768	102.7186 ug/L		95
54)	4-Methyl-2-Pentanone	12.06	58	225734	100.7179 ug/L		97
55)	cis-1,3-Dichloropropene	12.37	75	1616749	106.4496 ug/L		98
56)	Dimethyl Disulfide	12.63	79	880541	107.5192 ug/L		97
59)	Toluene	12.78	91	4231266	103.1491 ug/L		97
60)	Ethyl Methacrylate	12.89	69	900291	110.0828 ug/L		96
62)	trans-1,3-Dichloropropene	12.96	75	1369595	108.8301 ug/L		100
63)	1,1,2-Trichloroethane	13.18	97	676060	103.8356 ug/L		97
64)	2-Hexanone	13.12	58	211271	103.2096 ug/L	#	95
65)	1,3-Dichloropropane	13.49	76	1205913	103.6429 ug/L		95
66)	Tetrachloroethene	13.61	164	922464	105.7816 ug/L		99
67)	Dibromochloromethane	13.87	129	918991	109.1703 ug/L		99
68)	1,2-Dibromoethane	14.13	107	679902	104.5960 ug/L		100
69)	1-Chlorohexane	14.21	91	1557671	106.1199 ug/L		97
70)	Chlorobenzene	14.62	112	2925423	106.4313 ug/L		94
71)	1,1,1,2-Tetrachloroethane	14.66	131	1162122	114.3464 ug/L		98
72)	Ethylbenzene	14.66	106	1738524	108.5766 ug/L		82
73)	m-,p-Xylene	14.75	106	3972122	216.3163 ug/L		80
74)	o-Xylene	15.31	106	1940782	104.5168 ug/L		92
75)	Styrene	15.35	104	3215522	109.2953 ug/L		94
76)	Bromoform	15.83	173	556496	109.9676 ug/L		98
77)	Isopropylbenzene	15.73	105	4665259	104.7341 ug/L		95
79)	1,1,2,2-Tetrachloroethane	15.95	83	740784	99.9945 ug/L		98
81)	1,2,3-Trichloropropane	16.14	110	210912	102.4550 ug/L		61
82)	trans-1,4-Dichloro-2-Buten	16.18	53	295589	108.5784 ug/L	#	72
83)	n-Propylbenzene	16.24	91	5511450	94.8017 ug/L		93
84)	Bromobenzene	16.37	156	1216625	103.0918 ug/L		97
85)	1,3,5-Trimethylbenzene	16.42	105	4130512	103.3387 ug/L		97
86)	2-Chlorotoluene	16.52	91	3894393	101.1355 ug/L		97
87)	4-Chlorotoluene	16.56	91	3405729	102.2686 ug/L		96
88)	a-Methylstyrene	16.83	118	2308871	105.9586 ug/L		99
89)	tert-Butylbenzene	16.89	134	915158	104.0760 ug/L		89
90)	1,2,4-Trimethylbenzene	16.94	105	4211193	104.2614 ug/L		97
91)	sec-Butylbenzene	17.16	105	4897753	98.6396 ug/L		93
92)	p-Isopropyltoluene	17.32	119	4206090	105.9486 ug/L		92
93)	1,3-Dichlorobenzene	17.51	146	2401799	101.9634 ug/L		97
94)	1,4-Dichlorobenzene	17.64	146	2352221	100.2787 ug/L		99
95)	n-Butylbenzene	17.84	91	3998669	108.0497 ug/L		94
96)	1,2-Dichlorobenzene	18.14	146	2098195	101.7983 ug/L		98
97)	1,2-Dibromo-3-Chloropropan	19.13	75	133354	102.7190 ug/L		98
98)	1,2,4-Trichlorobenzene	20.27	180	1521471	107.4447 ug/L		99
99)	Hexachlorobutadiene	20.42	225	710580	104.9132 ug/L		99
100)	Naphthalene	20.64	128	2043864	99.8347 ug/L		100
101)	1,2,3-Trichlorobenzene	20.95	180	1268996	105.0890 ug/L		98

(#) = qualifier out of range (m) = manual integration
8M407754.D 8260WT.M Thu Oct 01 09:03:03 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407754.D Vial: 10
Acq On : 30 Sep 2015 13:56 Operator: TMB
Sample : WG540912-09 100ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 9:03 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407755.D Vial: 11
Acq On : 30 Sep 2015 14:24 Operator: TMB
Sample : WG540912-10 200ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:03:04 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.71	96	1019915	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	757249	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	423760	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.68	111	997322	102.7432 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 410.96%#		
43) 1,2-Dichloroethane-d4	10.31	65	1027552	103.8249 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 415.28%#		
58) Toluene-d8	12.69	98	3420899	97.3650 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 389.44%#		
80) p-Bromofluorobenzene	16.07	95	1495937	101.1751 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 404.72%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.17	85	3073735	198.2323 ug/L	96
3) Chloromethane	3.62	50	4198667	177.4585 ug/L	96
4) Vinyl Chloride	3.85	62	2900469	155.1319 ug/L	97
5) 1,3-Butadiene	3.89	54	1696169	185.8080 ug/L	90
6) Bromomethane	4.74	94	1490093	206.5308 ug/L	97
7) Chloroethane	4.90	64	1580424	207.1948 ug/L	98
8) Trichlorofluoromethane	5.39	101	3602432	199.3532 ug/L	99
9) Diethyl ether	5.90	59	1289	0.1853 ug/L #	45
10) Isoprene	5.94	67	2777274	209.3410 ug/L	95
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	1952371	200.9914 ug/L	100
13) Acetone	6.24	43	341749	225.7531 ug/L	96
14) 1,1-Dichloroethene	6.47	61	3369596	203.7826 ug/L	100
16) Dimethyl Sulfide	6.74	62	2052730	216.3013 ug/L	100
17) Iodomethane	7.00	142	1342604	206.7806 ug/L	96
18) Methyl acetate	7.01	43	1189139	207.7270 ug/L	100
19) Methylene Chloride	7.26	84	2095681	204.0683 ug/L	97
20) Carbon Disulfide	7.30	76	6585198	196.3835 ug/L	97
21) Acrylonitrile	7.47	53	48336	21.2695 ug/L #	34
22) Methyl Tert Butyl Ether	7.47	73	4193880	215.4313 ug/L	100
23) trans-1,2-Dichloroethene	7.71	61	3271432	208.3365 ug/L	100
24) n-Hexane	7.79	57	3062998	197.4599 ug/L	95
26) Vinyl Acetate	8.30	43	2151883	209.1701 ug/L	100
27) 1,1-Dichloroethane	8.33	63	4045048	202.8576 ug/L	96
29) 2-Butanone	8.89	43	549079	210.5282 ug/L	99
30) Propionitrile	8.90	54	1482	1.9366 ug/L	86
31) 2,2-Dichloropropane	9.11	77	3379783	202.8106 ug/L	99
32) cis-1,2-Dichloroethene	9.17	96	2289136	204.3184 ug/L	99
33) Chloroform	9.39	83	3770537	199.0628 ug/L	97
34) 1-Bromopropane	9.52	122	377992	205.4540 ug/L	100
35) Bromochloromethane	9.61	130	1167712	211.7204 ug/L	99
36) Tetrahydrofuran	9.64	42	2035	1.1887 ug/L #	40
38) 1,1,1-Trichloroethane	9.91	97	3554199	209.0406 ug/L	100
39) Cyclohexane	9.94	56	4130086	204.1295 ug/L	98
40) 1,1-Dichloropropene	10.11	75	2986535	204.0119 ug/L	99
42) Carbon Tetrachloride	10.25	117	3135755	206.3629 ug/L	100
45) 1,2-Dichloroethane	10.43	62	2808454	215.9170 ug/L	98
46) Benzene	10.47	78	7375672	183.6195 ug/L	90
47) Trichloroethene	11.22	130	2161282	199.8689 ug/L	98
48) Methylcyclohexane	11.31	83	3284260	196.2889 ug/L	97
49) 1,2-Dichloropropane	11.43	63	2280795	210.7707 ug/L	95

(#) = qualifier out of range (m) = manual integration
8M407755.D 8260WT.M Thu Oct 01 09:03:04 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407755.D Vial: 11
Acq On : 30 Sep 2015 14:24 Operator: TMB
Sample : WG540912-10 200ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:03:04 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

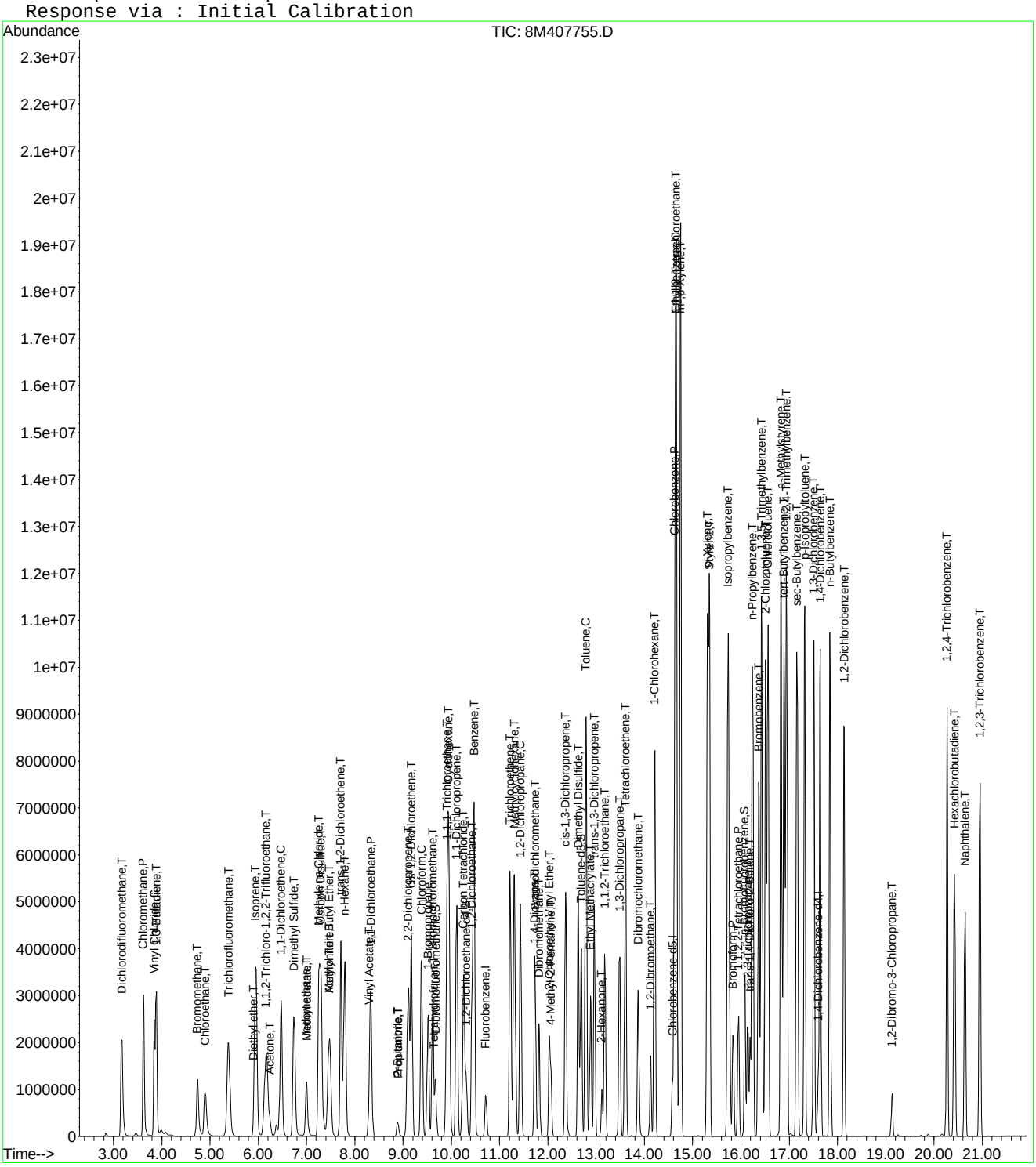
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50)	Bromodichloromethane	11.73	83	2976618	213.1111 ug/L		98
51)	1,4-Dioxane	11.72	88	4118	82.6585 ug/L	#	10
52)	Dibromomethane	11.81	93	1102889	214.0359 ug/L		99
53)	2-Chloroethyl Vinyl Ether	12.03	63	934357	209.4887 ug/L		96
54)	4-Methyl-2-Pentanone	12.06	58	490003	214.1554 ug/L		98
55)	cis-1,3-Dichloropropene	12.36	75	3292430	212.3433 ug/L		96
56)	Dimethyl Disulfide	12.63	79	1896563	226.8424 ug/L		92
59)	Toluene	12.79	91	7427590	172.6151 ug/L		89
60)	Ethyl Methacrylate	12.88	69	1925828	224.4865 ug/L		95
62)	trans-1,3-Dichloropropene	12.96	75	2848227	215.7582 ug/L		97
63)	1,1,2-Trichloroethane	13.18	97	1435328	210.1590 ug/L		97
64)	2-Hexanone	13.12	58	462088	215.1992 ug/L	#	97
65)	1,3-Dichloropropane	13.49	76	2491344	204.1236 ug/L		92
66)	Tetrachloroethene	13.61	164	1859849	203.3173 ug/L		98
67)	Dibromochloromethane	13.87	129	1962613	222.2613 ug/L		98
68)	1,2-Dibromoethane	14.13	107	1449499	212.5800 ug/L		100
69)	1-Chlorohexane	14.21	91	3025747	196.5123 ug/L		95
70)	Chlorobenzene	14.63	112	5662002	196.3752 ug/L		88
71)	1,1,1,2-Tetrachloroethane	14.66	131	2482321	232.8437 ug/L		97
72)	Ethylbenzene	14.66	106	3652304	217.4495 ug/L		54
73)	m-,p-Xylene	14.75	106	7200744	373.8350 ug/L		60
74)	o-Xylene	15.31	106	4011298	205.9350 ug/L		76
75)	Styrene	15.35	104	6146741	199.1732 ug/L		85
76)	Bromoform	15.84	173	1230396	231.7841 ug/L		99
77)	Isopropylbenzene	15.73	105	8074176	172.8010 ug/L		85
79)	1,1,2,2-Tetrachloroethane	15.95	83	1609027	205.8068 ug/L		98
81)	1,2,3-Trichloropropane	16.15	110	460163	211.8144 ug/L		66
82)	trans-1,4-Dichloro-2-Buten	16.19	53	659628	229.5972 ug/L	#	69
83)	n-Propylbenzene	16.24	91	8929204	145.5375 ug/L	#	79
84)	Bromobenzene	16.37	156	2526645	202.8727 ug/L		99
85)	1,3,5-Trimethylbenzene	16.42	105	7372697	174.7823 ug/L		87
86)	2-Chlorotoluene	16.51	91	7171461	176.4752 ug/L		88
87)	4-Chlorotoluene	16.56	91	5885379	167.4629 ug/L		84
88)	a-Methylstyrene	16.83	118	4628606	201.2793 ug/L		95
89)	tert-Butylbenzene	16.89	134	1937230	208.7602 ug/L		78
90)	1,2,4-Trimethylbenzene	16.94	105	7491629	175.7546 ug/L		84
91)	sec-Butylbenzene	17.16	105	8363908	159.6158 ug/L	#	82
92)	p-Isopropyltoluene	17.32	119	7394359	176.4937 ug/L		81
93)	1,3-Dichlorobenzene	17.51	146	4755218	191.2891 ug/L		92
94)	1,4-Dichlorobenzene	17.64	146	4681127	189.1007 ug/L		94
95)	n-Butylbenzene	17.84	91	7035050	180.1306 ug/L		84
96)	1,2-Dichlorobenzene	18.14	146	4260447	195.8672 ug/L		93
97)	1,2-Dibromo-3-Chloropropan	19.13	75	303791	221.7336 ug/L		98
98)	1,2,4-Trichlorobenzene	20.27	180	3208659	214.7122 ug/L		98
99)	Hexachlorobutadiene	20.42	225	1464137	204.8382 ug/L		98
100)	Naphthalene	20.64	128	4269643	197.6211 ug/L		98
101)	1,2,3-Trichlorobenzene	20.95	180	2712907	212.8844 ug/L		97

(#) = qualifier out of range (m) = manual integration
8M407755.D 8260WT.M Thu Oct 01 09:03:04 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407755.D Vial: 11
Acq On : 30 Sep 2015 14:24 Operator: TMB
Sample : WG540912-10 200ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 9:03 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407756.D Vial: 12
Acq On : 30 Sep 2015 14:52 Operator: TMB
Sample : WG540912-11 300ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:03:05 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.72	96	1065746	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	805472	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	452330	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.67	111	1515938	149.4546 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 597.80%#		
43) 1,2-Dichloroethane-d4	10.31	65	1566170	151.4422 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 605.76%#		
58) Toluene-d8	12.69	98	5005555	133.9377 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 535.76%#		
80) p-Bromofluorobenzene	16.08	95	2319893	146.9916 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 587.96%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.17	85	4453985	274.8952 ug/L	95
3) Chloromethane	3.62	50	5719893	231.3574 ug/L	92
4) Vinyl Chloride	3.84	62	3908072	200.0349 ug/L	95
5) 1,3-Butadiene	3.89	54	2229495	Below Cal	91
6) Bromomethane	4.73	94	2360356	295.2548 ug/L	99
7) Chloroethane	4.90	64	2372692	297.6849 ug/L	98
8) Trichlorofluoromethane	5.38	101	5511756	291.8957 ug/L	100
9) Diethyl ether	5.91	59	2348893	323.1961 ug/L	99
10) Isoprene	5.94	67	4265273	307.6753 ug/L	94
11) Acrolein	6.15	56	155193	172.0618 ug/L	93
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	2917906	287.4727 ug/L	100
13) Acetone	6.25	43	498841	315.3544 ug/L	99
14) 1,1-Dichloroethene	6.47	61	4975754	287.9774 ug/L	99
15) Tert-Butyl Alcohol	6.60	59	311443	666.3305 ug/L	98
16) Dimethyl Sulfide	6.74	62	3151512	317.8019 ug/L	99
17) Iodomethane	7.00	142	1961731	288.4192 ug/L	96
18) Methyl acetate	7.01	43	1852436	309.6804 ug/L	99
19) Methylene Chloride	7.26	84	3173784	295.7590 ug/L	95
20) Carbon Disulfide	7.30	76	9459683	269.9747 ug/L	95
21) Acrylonitrile	7.44	53	453204	190.8495 ug/L	94
22) Methyl Tert Butyl Ether	7.47	73	6257021	307.5889 ug/L	99
23) trans-1,2-Dichloroethene	7.71	61	4791642	292.0263 ug/L	98
24) n-Hexane	7.79	57	4581735	282.6652 ug/L	94
25) Diisopropyl ether	8.13	45	11029782	272.6893 ug/L	92
26) Vinyl Acetate	8.30	43	3305041	307.4454 ug/L	100
27) 1,1-Dichloroethane	8.33	63	5933365	284.7599 ug/L	94
28) Ethyl-Tert-Butyl ether	8.71	59	9322882	292.6281 ug/L	98
29) 2-Butanone	8.89	43	870424	319.3865 ug/L	99
30) Propionitrile	9.00	54	267878	334.9959 ug/L	99
31) 2,2-Dichloropropane	9.11	77	4977286	285.8279 ug/L	97
32) cis-1,2-Dichloroethene	9.18	96	3400905	290.4964 ug/L	100
33) Chloroform	9.38	83	5463339	276.0294 ug/L	95
34) 1-Bromopropane	9.52	122	576665	299.9617 ug/L	98
35) Bromochloromethane	9.61	130	1746232	302.9975 ug/L	99
36) Tetrahydrofuran	9.64	42	580129	324.2847 ug/L	97
38) 1,1,1-Trichloroethane	9.91	97	5257764	295.9377 ug/L	99
39) Cyclohexane	9.94	56	6196433	293.0885 ug/L	98
40) 1,1-Dichloropropene	10.11	75	4405096	287.9742 ug/L	97
41) Tert-Amyl-Methyl ether	10.22	73	7256729	307.2053 ug/L	95
42) Carbon Tetrachloride	10.25	117	4725876	297.6336 ug/L	99

(#) = qualifier out of range (m) = manual integration
8M407756.D 8260WT.M Thu Oct 01 09:03:05 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407756.D Vial: 12
Acq On : 30 Sep 2015 14:52 Operator: TMB
Sample : WG540912-11 300ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:03:05 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

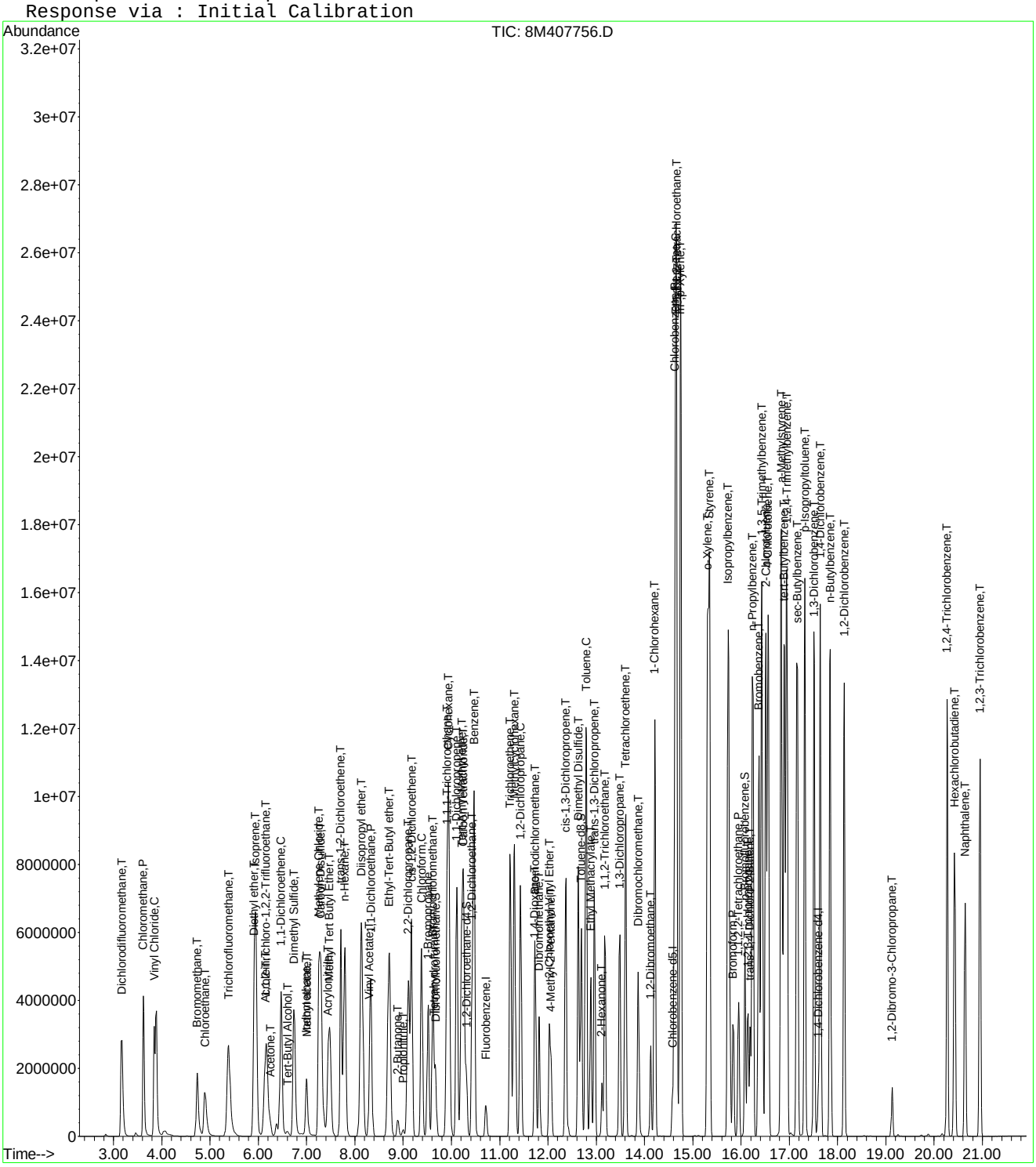
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	4130044	303.8676	ug/L		98
46)	Benzene	10.47	78	9784739	233.1185	ug/L	#	82
47)	Trichloroethene	11.21	130	3245468	287.2244	ug/L		98
48)	Methylcyclohexane	11.31	83	4927101	281.8124	ug/L		97
49)	1,2-Dichloropropane	11.43	63	3420992	302.5424	ug/L		93
50)	Bromodichloromethane	11.73	83	4386556	300.5501	ug/L		96
51)	1,4-Dioxane	11.72	88	38129	732.4310	ug/L		87
52)	Dibromomethane	11.81	93	1677042	311.4648	ug/L		98
53)	2-Chloroethyl Vinyl Ether	12.03	63	1496210	321.0337	ug/L		96
54)	4-Methyl-2-Pentanone	12.06	58	800902	334.9808	ug/L		98
55)	cis-1,3-Dichloropropene	12.37	75	4810146	296.8866	ug/L		93
56)	Dimethyl Disulfide	12.63	79	2907112	332.7583	ug/L		89
59)	Toluene	12.79	91	9565632	208.9935	ug/L		81
60)	Ethyl Methacrylate	12.89	69	2969611	325.4322	ug/L		95
62)	trans-1,3-Dichloropropene	12.96	75	4220324	300.5569	ug/L		95
63)	1,1,2-Trichloroethane	13.18	97	2203723	303.3487	ug/L		96
64)	2-Hexanone	13.12	58	741076	324.4643	ug/L	#	97
65)	1,3-Dichloropropane	13.49	76	3741871	288.2282	ug/L		92
66)	Tetrachloroethene	13.61	164	2828983	290.7470	ug/L		99
67)	Dibromochloromethane	13.87	129	3001146	319.5247	ug/L		98
68)	1,2-Dibromoethane	14.13	107	2188511	301.7460	ug/L		99
69)	1-Chlorohexane	14.21	91	4484491	273.8158	ug/L		93
70)	Chlorobenzene	14.63	112	7602943	247.9058	ug/L		81
71)	1,1,1,2-Tetrachloroethane	14.67	131	3693596	325.7198	ug/L		97
72)	Ethylbenzene	14.66	106	5302756	296.8120	ug/L		39
73)	m-,p-Xylene	14.75	106	9232185	450.6043	ug/L		52
74)	o-Xylene	15.31	106	5865525	283.1004	ug/L		63
75)	Styrene	15.35	104	8250991	251.3508	ug/L		76
76)	Bromoform	15.83	173	1942351	343.9970	ug/L		98
77)	Isopropylbenzene	15.73	105	10265255	206.5409	ug/L	#	72
79)	1,1,2,2-Tetrachloroethane	15.95	83	2476655	296.7745	ug/L		97
81)	1,2,3-Trichloropropane	16.14	110	715785	308.6675	ug/L		95
82)	trans-1,4-Dichloro-2-Buten	16.18	53	1036558	338.0069	ug/L		95
83)	n-Propylbenzene	16.24	91	10987624	167.7763	ug/L	#	65
84)	Bromobenzene	16.37	156	3802914	286.0623	ug/L		97
85)	1,3,5-Trimethylbenzene	16.43	105	9451191	209.9047	ug/L		77
86)	2-Chlorotoluene	16.52	91	8779258	202.3943	ug/L	#	76
87)	4-Chlorotoluene	16.56	91	7834256	208.8366	ug/L	#	71
88)	a-Methylstyrene	16.84	118	6616753	269.5618	ug/L		88
89)	tert-Butylbenzene	16.90	134	2982807	301.1315	ug/L		64
90)	1,2,4-Trimethylbenzene	16.95	105	9504140	208.8853	ug/L		71
91)	sec-Butylbenzene	17.17	105	10503392	187.7849	ug/L	#	70
92)	p-Isopropyltoluene	17.32	119	9416903	210.5723	ug/L	#	69
93)	1,3-Dichlorobenzene	17.52	146	6583121	248.0939	ug/L		85
94)	1,4-Dichlorobenzene	17.64	146	6449422	244.0777	ug/L		86
95)	n-Butylbenzene	17.85	91	8901534	213.5255	ug/L	#	74
96)	1,2-Dichlorobenzene	18.14	146	6027193	259.5890	ug/L		87
97)	1,2-Dibromo-3-Chloropropan	19.13	75	474533	324.4798	ug/L		99
98)	1,2,4-Trichlorobenzene	20.27	180	4574770	286.7920	ug/L		97
99)	Hexachlorobutadiene	20.42	225	2184179	286.2741	ug/L		98
100)	Naphthalene	20.64	128	5884557	255.1644	ug/L		94
101)	1,2,3-Trichlorobenzene	20.95	180	3909833	287.4298	ug/L		97

(#) = qualifier out of range (m) = manual integration
8M407756.D 8260WT.M Thu Oct 01 09:03:06 2015 Page 2

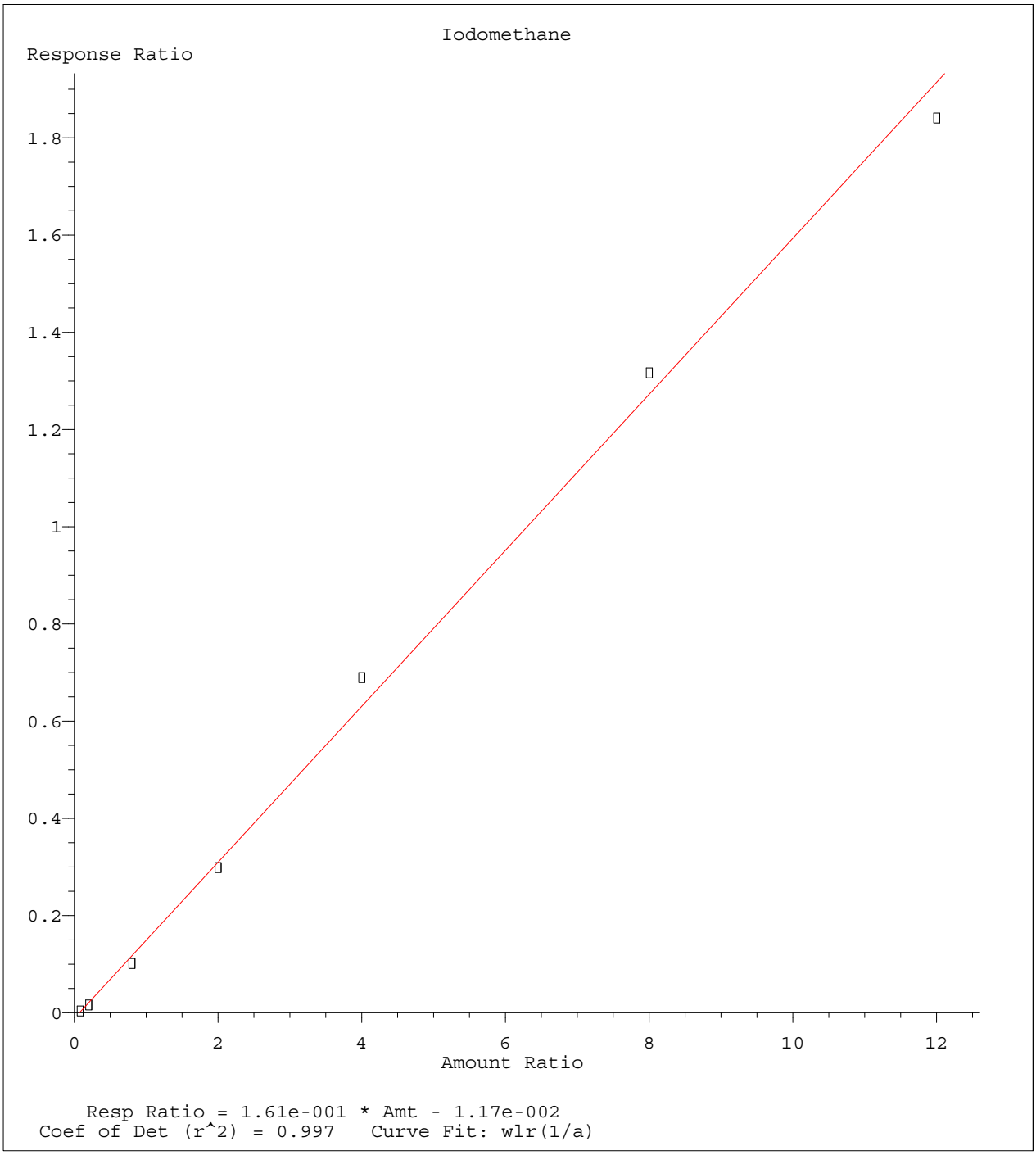
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407756.D Vial: 12
Acq On : 30 Sep 2015 14:52 Operator: TMB
Sample : WG540912-11 300ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD72739 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 9:03 2015 Quant Results File: 8260WT.RES

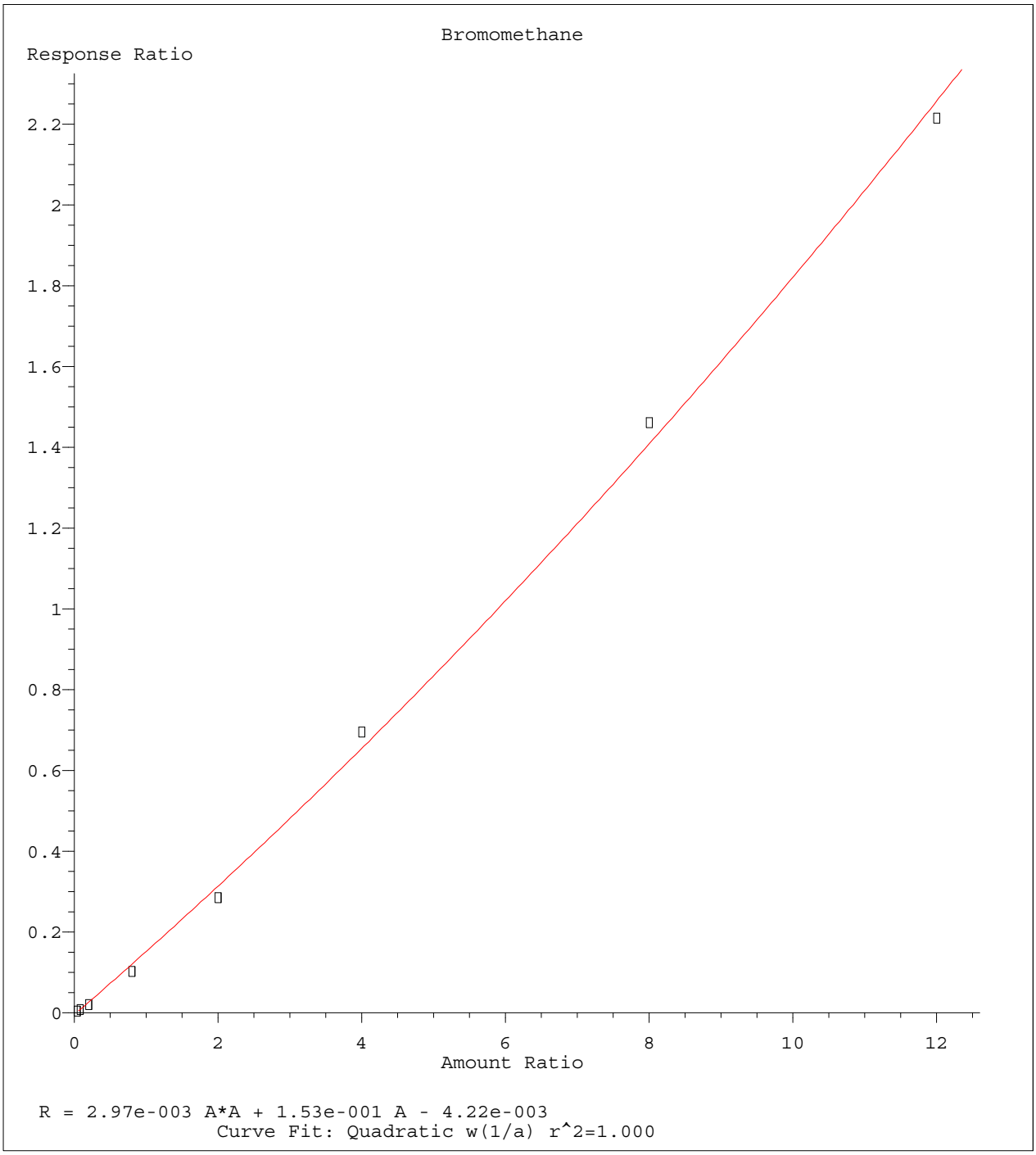
Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration



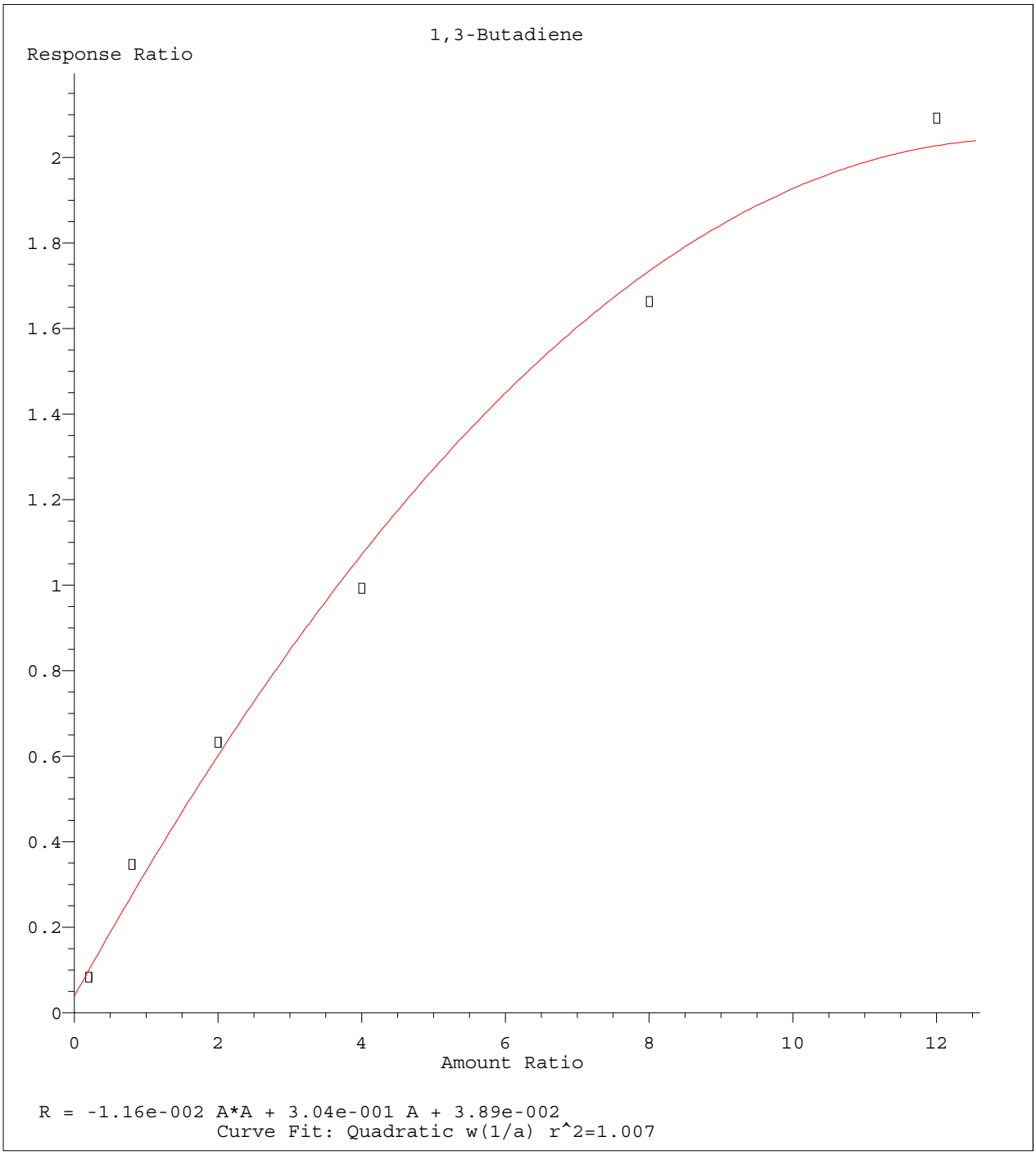
8M407756.D 8260WT.M Thu Oct 01 09:03:06 2015 Page 3



Method Name: C:\MSDCHEM\2\METHODS\8260WT.M
Calibration Table Last Updated: Thu Oct 01 09:04:46 2015



Method Name: C:\MSDCHEM\2\METHODS\8260WT.M
Calibration Table Last Updated: Thu Oct 01 09:04:46 2015



Method Name: C:\MSDCHEM\2\METHODS\8260WT.M
Calibration Table Last Updated: Thu Oct 01 09:04:46 2015

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407761.D Vial: 17
Acq On : 30 Sep 2015 17:27 Operator: TMB
Sample : WG540912-12 50ug/L ALT SRC STD 8 Inst : HPMS8
Misc : 1,1 STD72747 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:03:07 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	973469	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	760814	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	418744	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.66	111	232214	25.0639	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.24%			
43) 1,2-Dichloroethane-d4	10.30	65	231666	24.5246	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 98.08%			
58) Toluene-d8	12.69	98	861595	24.4076	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 97.64%			
80) p-Bromofluorobenzene	16.08	95	366835	25.1074	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	868942	58.7139	ug/L	99
3) Chloromethane	3.62	50	1121121	49.6455	ug/L	100
4) Vinyl Chloride	3.84	62	785577	44.0214	ug/L	100
5) 1,3-Butadiene	3.89	54	349607	27.4376	ug/L	90
6) Bromomethane	4.73	94	274076	45.1539	ug/L	98
7) Chloroethane	4.89	64	406712	55.8643	ug/L	98
8) Trichlorofluoromethane	5.37	101	851761	49.3841	ug/L	98
9) Diethyl ether	5.91	59	681811	102.7066	ug/L	99
10) Isoprene	5.94	67	811140	64.0580	ug/L	96
11) Acrolein	6.15	56	80880	98.1714	ug/L	93
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	494289	53.3136	ug/L	98
13) Acetone	6.25	43	85566	59.2202	ug/L	100
14) 1,1-Dichloroethene	6.47	61	782591	49.5868	ug/L	99
15) Tert-Butyl Alcohol	6.59	59	92214	215.9929	ug/L	99
16) Dimethyl Sulfide	6.74	62	585403	64.6285	ug/L	99
17) Iodomethane	6.99	142	218559	36.7730	ug/L	94
18) Methyl acetate	7.01	43	230990	42.2761	ug/L	97
19) Methylene Chloride	7.26	84	493851	50.3835	ug/L	97
20) Carbon Disulfide	7.30	76	1560781	48.7663	ug/L	100
21) Acrylonitrile	7.44	53	119847	55.2530	ug/L	97
22) Methyl Tert Butyl Ether	7.47	73	1039620	55.9512	ug/L	98
23) trans-1,2-Dichloroethene	7.71	61	774357	51.6667	ug/L	100
24) n-Hexane	7.79	57	795155	53.7064	ug/L	96
25) Diisopropyl ether	8.13	45	3847749	104.1453	ug/L	99
26) Vinyl Acetate	8.30	43	823818	83.8985	ug/L	99
27) 1,1-Dichloroethane	8.33	63	987280	51.8740	ug/L	99
28) Ethyl-Tert-Butyl ether	8.71	59	2933980	100.8218	ug/L	97
29) 2-Butanone	8.89	43	134931	54.2037	ug/L	99
30) Propionitrile	8.99	54	75739	103.6940	ug/L	97
31) 2,2-Dichloropropane	9.11	77	905546	56.9317	ug/L	99
32) cis-1,2-Dichloroethene	9.17	96	546221	51.0794	ug/L	98
33) Chloroform	9.38	83	967794	53.5318	ug/L	99
34) 1-Bromopropane	9.52	122	106430	60.6091	ug/L	99
35) Bromochloromethane	9.61	130	281529	53.4801	ug/L	98
36) Tetrahydrofuran	9.64	42	163322	99.9489	ug/L	98
38) 1,1,1-Trichloroethane	9.91	97	894608	55.1269	ug/L	98
39) Cyclohexane	9.94	56	1022711	52.9592	ug/L	99
40) 1,1-Dichloropropene	10.11	75	736268	52.6946	ug/L	100
41) Tert-Amyl-Methyl ether	10.21	73	2268375	105.1318	ug/L	99
42) Carbon Tetrachloride	10.25	117	790345	54.4939	ug/L	99

(#) = qualifier out of range (m) = manual integration
8M407761.D 8260WT.M Thu Oct 01 09:03:08 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407761.D Vial: 17
Acq On : 30 Sep 2015 17:27 Operator: TMB
Sample : WG540912-12 50ug/L ALT SRC STD 8 Inst : HPMS8
Misc : 1,1 STD72747 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 01 09:03:07 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

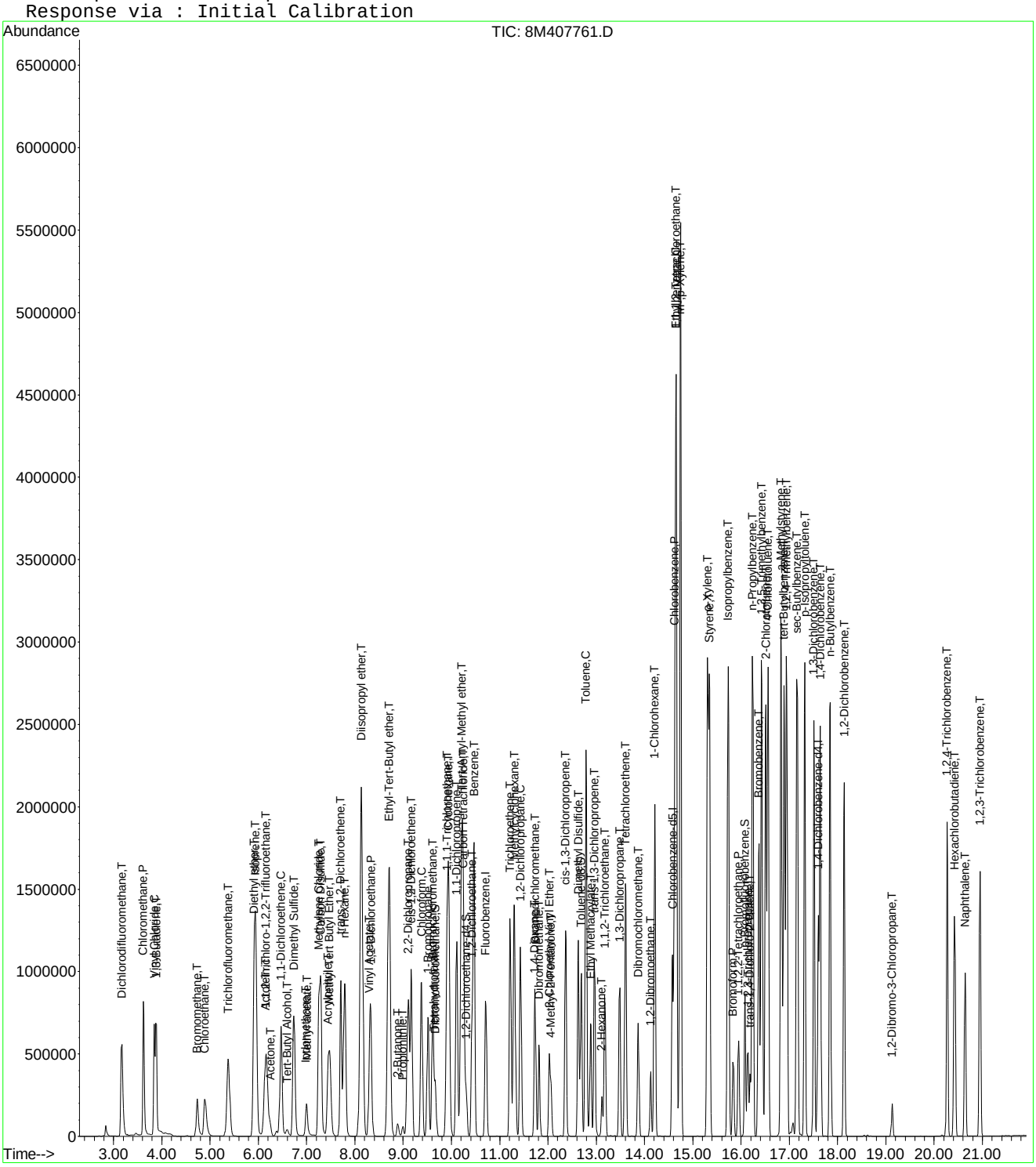
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	652312	52.5432	ug/L		98
46)	Benzene	10.47	78	2027923	52.8945	ug/L		99
47)	Trichloroethene	11.21	130	525698	50.9345	ug/L		96
48)	Methylcyclohexane	11.31	83	858331	53.7471	ug/L		99
49)	1,2-Dichloropropane	11.43	63	531322	51.4427	ug/L		94
50)	Bromodichloromethane	11.73	83	695935	52.2028	ug/L		100
51)	1,4-Dioxane	11.72	88	10964	230.5749	ug/L		87
52)	Dibromomethane	11.81	93	254190	51.6839	ug/L		98
53)	2-Chloroethyl Vinyl Ether	12.03	63	220739	51.8524	ug/L		95
54)	4-Methyl-2-Pentanone	12.06	58	110611	50.6490	ug/L		96
55)	cis-1,3-Dichloropropene	12.36	75	817619	55.2478	ug/L		100
56)	Dimethyl Disulfide	12.63	79	433239	54.2908	ug/L		97
59)	Toluene	12.78	91	2168150	50.1511	ug/L		100
60)	Ethyl Methacrylate	12.89	69	467899	54.2856	ug/L		98
62)	trans-1,3-Dichloropropene	12.96	75	651098	49.0907	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	325095	47.3770	ug/L		97
64)	2-Hexanone	13.12	58	104133	48.2686	ug/L	#	94
65)	1,3-Dichloropropane	13.49	76	590786	48.1781	ug/L		94
66)	Tetrachloroethene	13.61	164	462809	50.3569	ug/L		99
67)	Dibromochloromethane	13.87	129	437204	49.2803	ug/L		98
68)	1,2-Dibromoethane	14.13	107	327494	47.8044	ug/L		99
69)	1-Chlorohexane	14.21	91	794949	51.3874	ug/L		99
70)	Chlorobenzene	14.62	112	1499530	51.7645	ug/L		97
71)	1,1,1,2-Tetrachloroethane	14.66	131	530992	49.5741	ug/L		98
72)	Ethylbenzene	14.66	106	830493	49.2139	ug/L		93
73)	m-,p-Xylene	14.75	106	2033249	105.0639	ug/L		95
74)	o-Xylene	15.31	106	1009684	51.5930	ug/L		97
75)	Styrene	15.35	104	1628775	52.5300	ug/L		96
76)	Bromoform	15.83	173	273147	51.2148	ug/L		98
77)	Isopropylbenzene	15.73	105	2539990	54.1054	ug/L		99
79)	1,1,2,2-Tetrachloroethane	15.95	83	370394	47.9437	ug/L		99
81)	1,2,3-Trichloropropane	16.14	110	105109	48.9615	ug/L		65
82)	trans-1,4-Dichloro-2-Buten	16.18	53	124572	43.8793	ug/L	#	51
83)	n-Propylbenzene	16.24	91	3088551	50.9435	ug/L		98
84)	Bromobenzene	16.37	156	606575	49.2873	ug/L		97
85)	1,3,5-Trimethylbenzene	16.42	105	2194366	52.6443	ug/L		100
86)	2-Chlorotoluene	16.52	91	2136948	53.2159	ug/L		100
87)	4-Chlorotoluene	16.56	91	1837561	52.9124	ug/L		99
88)	a-Methylstyrene	16.83	118	1243601	54.7270	ug/L		100
89)	tert-Butylbenzene	16.89	134	474225	51.7157	ug/L		91
90)	1,2,4-Trimethylbenzene	16.94	105	2170152	51.5219	ug/L		100
91)	sec-Butylbenzene	17.16	105	2683180	51.8189	ug/L		96
92)	p-Isopropyltoluene	17.32	119	2149600	51.9227	ug/L		96
93)	1,3-Dichlorobenzene	17.51	146	1240636	50.5051	ug/L		99
94)	1,4-Dichlorobenzene	17.64	146	1189152	48.6129	ug/L		99
95)	n-Butylbenzene	17.85	91	2040120	52.8625	ug/L		96
96)	1,2-Dichlorobenzene	18.14	146	1091732	50.7918	ug/L		99
97)	1,2-Dibromo-3-Chloropropan	19.13	75	64091	47.3397	ug/L		98
98)	1,2,4-Trichlorobenzene	20.27	180	727823	49.2868	ug/L		98
99)	Hexachlorobutadiene	20.42	225	361689	51.2078	ug/L		99
100)	Naphthalene	20.64	128	946559	44.3364	ug/L		99
101)	1,2,3-Trichlorobenzene	20.95	180	612517	48.6406	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M407761.D 8260WT.M Thu Oct 01 09:03:08 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\093015\8M407761.D Vial: 17
Acq On : 30 Sep 2015 17:27 Operator: TMB
Sample : WG540912-12 50ug/L ALT SRC STD 8 Inst : HPMS8
Misc : 1,1 STD72747 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 9:03 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
Response via : Initial Calibration



8M407761.D 8260WT.M Thu Oct 01 09:03:08 2015 Page 3

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\093015\8M407761.D Vial: 17
Acq On : 30 Sep 2015 17:27 Operator: TMB
Sample : WG540912-12 50ug/L ALT SRC STD 8 Inst : HPMS8
Misc : 1,1 STD72747 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
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	104	0.00
2	T	Dichlorodifluoromethane	50.0000	58.7139	-17.4	118	0.00
3	P	Chloromethane	50.0000	49.6455	0.7	103	0.00
4	C	Vinyl Chloride	50.0000	44.0214	12.0	99	0.00
5	T	1,3-Butadiene	50.0000	27.4376	45.1#	59	0.00
6	T	Bromomethane	50.0000	45.1538	9.7	103	0.00
7	T	Chloroethane	50.0000	55.8643	-11.7	114	-0.01
8	T	Trichlorofluoromethane	50.0000	49.3841	1.2	106	-0.01
9	T	Diethyl ether	100.0000	102.7066	-2.7	111	0.00
10	T	Isoprene	50.0000	64.0580	-28.1#	125	-0.01
11	T	Acrolein	50.0000	98.1714	-96.3#	218	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	53.3136	-6.6	113	0.00
13	T	Acetone	50.0000	59.2202	-18.4	137	0.00
14	C	1,1-Dichloroethene	50.0000	49.5868	0.8	108	0.00
15	T	Tert-Butyl Alcohol	200.0000	215.9929	-8.0	124	0.00
16	T	Dimethyl Sulfide	50.0000	64.6285	-29.3#	132	0.00
17	T	Iodomethane	50.0000	36.7730	26.5#	78	0.00
18	T	Methyl acetate	50.0000	42.2761	15.4	97	0.00
19	T	Methylene Chloride	50.0000	50.3835	-0.8	108	0.00
20	T	Carbon Disulfide	50.0000	48.7663	2.5	99	0.00
21	T	Acrylonitrile	50.0000	55.2530	-10.5	116	0.00
22	T	Methyl Tert Butyl Ether	50.0000	55.9512	-11.9	119	0.00
23	T	trans-1,2-Dichloroethene	50.0000	51.6667	-3.3	107	0.00
24	T	n-Hexane	50.0000	53.7064	-7.4	109	0.00
25	T	Diisopropyl ether	100.0000	104.1453	-4.1	108	0.00
26	T	Vinyl Acetate	50.0000	83.8985	-67.8#	173	0.00
27	P	1,1-Dichloroethane	50.0000	51.8740	-3.7	110	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	100.8218	-0.8	106	0.00
29	T	2-Butanone	50.0000	54.2037	-8.4	122	0.00
30	T	Propionitrile	100.0000	103.6940	-3.7	114	0.00
31	T	2,2-Dichloropropane	50.0000	56.9317	-13.9	120	0.00
32	T	cis-1,2-Dichloroethene	50.0000	51.0795	-2.2	108	0.00
33	C	Chloroform	50.0000	53.5318	-7.1	112	0.00
34		1-Bromopropane	50.0000	60.6091	-21.2	119	0.00
35	T	Bromochloromethane	50.0000	53.4801	-7.0	110	0.00
36	T	Tetrahydrofuran	100.0000	99.9489	0.1	113	0.00
37	S	Dibromofluoromethane	25.0000	25.0638	-0.3	104	0.00
38	T	1,1,1-Trichloroethane	50.0000	55.1269	-10.3	114	0.00
39	T	Cyclohexane	50.0000	52.9592	-5.9	109	0.00
40	T	1,1-Dichloropropene	50.0000	52.6946	-5.4	110	0.00
41	T	Tert-Amyl-Methyl ether	100.0000	105.1318	-5.1	112	0.00
42	T	Carbon Tetrachloride	50.0000	54.4939	-9.0	111	0.00
43	S	1,2-Dichloroethane-d4	25.0000	24.5246	1.9	102	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	50.0000	52.5432	-5.1	109	0.00
46	T	Benzene	50.0000	52.8945	-5.8	107	0.00
47	T	Trichloroethene	50.0000	50.9345	-1.9	108	0.00
48	T	Methylcyclohexane	50.0000	53.7471	-7.5	110	0.00
49	C	1,2-Dichloropropane	50.0000	51.4427	-2.9	108	0.00
50	T	Bromodichloromethane	50.0000	52.2028	-4.4	107	0.00
51	T	1,4-Dioxane	200.0000	230.5749	-15.3	126	0.00
52	T	Dibromomethane	50.0000	51.6839	-3.4	108	0.00
53	T	2-Chloroethyl Vinyl Ether	50.0000	51.8524	-3.7	114	0.00
54	T	4-Methyl-2-Pentanone	50.0000	50.6489	-1.3	115	0.00

(#) = Out of Range
8M407761.D 8260WT.M Thu Oct 01 09:04:55 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\093015\8M407761.D Vial: 17
Acq On : 30 Sep 2015 17:27 Operator: TMB
Sample : WG540912-12 50ug/L ALT SRC STD 8 Inst : HPMS8
Misc : 1,1 STD72747 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Wed Sep 30 15:45:31 2015
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	cis-1,3-Dichloropropene	50.0000	55.2478	-10.5	112	0.00
56	T	Dimethyl Disulfide	50.0000	54.2908	-8.6	114	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	111	0.00
58	S	Toluene-d8	25.0000	24.4077	2.4	106	0.00
59	C	Toluene	50.0000	50.1511	-0.3	109	0.00
60	T	Ethyl Methacrylate	50.0000	54.2856	-8.6	120	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	50.0000	49.0907	1.8	107	0.00
63	T	1,1,2-Trichloroethane	50.0000	47.3770	5.2	109	0.00
64	T	2-Hexanone	50.0000	48.2686	3.5	116	0.00
65	T	1,3-Dichloropropane	50.0000	48.1781	3.6	111	0.00
66	T	Tetrachloroethene	50.0000	50.3569	-0.7	114	0.00
67	T	Dibromochloromethane	50.0000	49.2803	1.4	109	0.00
68	T	1,2-Dibromoethane	50.0000	47.8044	4.4	108	0.00
69	T	1-Chlorohexane	50.0000	51.3874	-2.8	111	0.00
70	P	Chlorobenzene	50.0000	51.7645	-3.5	114	0.00
71	T	1,1,1,2-Tetrachloroethane	50.0000	49.5741	0.9	108	0.00
72	C	Ethylbenzene	50.0000	49.2139	1.6	111	0.00
73	T	m-,p-Xylene	100.0000	105.0639	-5.1	113	0.00
74	T	o-Xylene	50.0000	51.5930	-3.2	115	0.00
75	T	Styrene	50.0000	52.5300	-5.1	111	0.00
76	P	Bromoform	50.0000	51.2148	-2.4	114	0.00
77	T	Isopropylbenzene	50.0000	54.1054	-8.2	115	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	110	0.00
79	P	1,1,2,2-Tetrachloroethane	50.0000	47.9437	4.1	110	0.00
80	S	p-Bromofluorobenzene	25.0000	25.1074	-0.4	111	0.00
81	T	1,2,3-Trichloropropane	50.0000	48.9615	2.1	112	0.00
82	T	trans-1,4-Dichloro-2-Butene	50.0000	43.8792	12.2	97	0.00
83	T	n-Propylbenzene	50.0000	50.9435	-1.9	113	0.00
84	T	Bromobenzene	50.0000	49.2873	1.4	110	0.00
85	T	1,3,5-Trimethylbenzene	50.0000	52.6443	-5.3	112	0.00
86	T	2-Chlorotoluene	50.0000	53.2159	-6.4	116	0.00
87	T	4-Chlorotoluene	50.0000	52.9124	-5.8	112	0.00
88	T	a-Methylstyrene	50.0000	54.7270	-9.5	117	0.00
89	T	tert-Butylbenzene	50.0000	51.7157	-3.4	118	0.00
90	T	1,2,4-Trimethylbenzene	50.0000	51.5219	-3.0	109	0.00
91	T	sec-Butylbenzene	50.0000	51.8188	-3.6	114	0.00
92	T	p-Isopropyltoluene	50.0000	51.9227	-3.8	109	0.00
93	T	1,3-Dichlorobenzene	50.0000	50.5051	-1.0	112	0.00
94	T	1,4-Dichlorobenzene	50.0000	48.6129	2.8	109	0.00
95	T	n-Butylbenzene	50.0000	52.8625	-5.7	108	0.00
96	T	1,2-Dichlorobenzene	50.0000	50.7918	-1.6	113	0.00
97	T	1,2-Dibromo-3-Chloropropane	50.0000	47.3396	5.3	108	0.00
98	T	1,2,4-Trichlorobenzene	50.0000	49.2868	1.4	106	0.00
99	T	Hexachlorobutadiene	50.0000	51.2078	-2.4	114	0.00
100	T	Naphthalene	50.0000	44.3364	11.3	100	0.00
101	T	1,2,3-Trichlorobenzene	50.0000	48.6406	2.7	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M407761.D 8260WT.M Thu Oct 01 09:04:55 2015 Page 2

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015934.D
Acq On : 22 Oct 2015 11:41
Operator : ADC
Sample : WG543912-02 50ug/L CCV STD
Misc : 1,1 STD72875
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 22 11:55:38 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	460512	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.976	117	345072	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.305	152	188866	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.177	111	121700	25.7762	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 103.105%			
34) 1,2-Dichloroethane-d4	4.814	65	112268	26.1044	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 104.418%			
47) Toluene-d8	6.713	98	454579	25.6870	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.748%			
66) p-Bromofluorobenzene	8.723	95	159096	24.3364	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.346%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.038	85	263479	45.3745	ug/L	99
3) Chloromethane	1.148	50	258385	55.0777	ug/L	100
4) Vinyl Chloride	1.198	62	300905	55.3393	ug/L	99
5) 1,3-Butadiene	1.206	54	85114	20.1613	ug/L	96
6) Bromomethane	1.383	94	148525	49.5908	ug/L	99
7) Chloroethane	1.452	64	145607	58.1493	ug/L	97
8) Trichlorofluoromethane	1.536	101	414985	51.7031	ug/L	100
9) Diethyl ether	1.748	59	148234	43.3777	ug/L	93
10) 1,1-Dichloroethene	1.866	61	378782	55.1505	ug/L	93
11) Carbon Disulfide	1.884	76	522634	34.7638	ug/L	99
12) 1,1,2-Trichloro-1,2,2-...	1.898	101	244110	50.2501	ug/L	97
13) Iodomethane	1.965	142	163741	19.5506	ug/L	98
14) Acrolein	2.110	56	14095	25.7029	ug/L	99
15) Methylene Chloride	2.292	84	253453	48.8640	ug/L	83
16) Acetone	2.344	43	37557	48.3294	ug/L	94
17) trans-1,2-Dichloroethene	2.419	96	242360	49.1985	ug/L	90
18) Methyl acetate	2.448	43	134327	46.6441	ug/L #	94
19) Methyl Tert Butyl Ether	2.529	73	558350	46.5757	ug/L	97
20) 1,1-Dichloroethane	2.978	63	461546	54.2058	ug/L	100
21) Acrylonitrile	3.036	53	51715	48.2850	ug/L	100
22) Vinyl Acetate	3.279	86	18986	62.4933	ug/L	59
23) cis-1,2-Dichloroethene	3.569	96	271341	48.4711	ug/L	91
24) 2,2-Dichloropropane	3.696	77	383318	53.5685	ug/L	93
25) Cyclohexane	3.798	56	368441	47.1389	ug/L	93
26) Bromochloromethane	3.809	130	170685	48.4920	ug/L	100
27) Chloroform	3.937	83	446410	48.8574	ug/L	99
28) Carbon Tetrachloride	4.081	117	367400	49.8681	ug/L	100
30) 1,1,1-Trichloroethane	4.177	97	396743	48.3525	ug/L	98
31) 1,1-Dichloropropene	4.348	75	338827	51.8727	ug/L	96
32) 2-Butanone	4.368	43	63330	49.9642	ug/L	92
33) Benzene	4.649	78	1000031	50.8509	ug/L	97
35) 1,2-Dichloroethane	4.895	62	290532	49.4729	ug/L	95
36) Methylcyclohexane	5.297	83	404558	45.5918	ug/L	95
37) Trichloroethene	5.323	130	286045	48.2090	ug/L	94
38) Dibromomethane	5.743	93	141533	48.7138	ug/L	99
39) 1,2-Dichloropropane	5.850	63	272951	54.3178	ug/L	95
40) Bromodichloromethane	5.940	83	341618	50.3284	ug/L	99
41) 1,4-Dioxane	6.154	88	3287	85.7768	ug/L	97
42) 2-Chloroethyl Vinyl Ether	6.528	63	116986	51.2462	ug/L	100
43) cis-1,3-Dichloropropene	6.545	75	401753	51.8447	ug/L	97
44) 4-Methyl-2-Pentanone	7.813	58	51358	44.2942	ug/L	94
45) trans-1,3-Dichloropropene	7.145	75	335274	50.7128	ug/L	99
48) Toluene	6.757	91	1121148	47.5202	ug/L	99
49) Tetrachloroethene	7.087	166	304767	47.0184	ug/L	98

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015934.D
Acq On : 22 Oct 2015 11:41
Operator : ADC
Sample : WG543912-02 50ug/L CCV STD
Misc : 1,1 STD72875
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 22 11:55:38 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

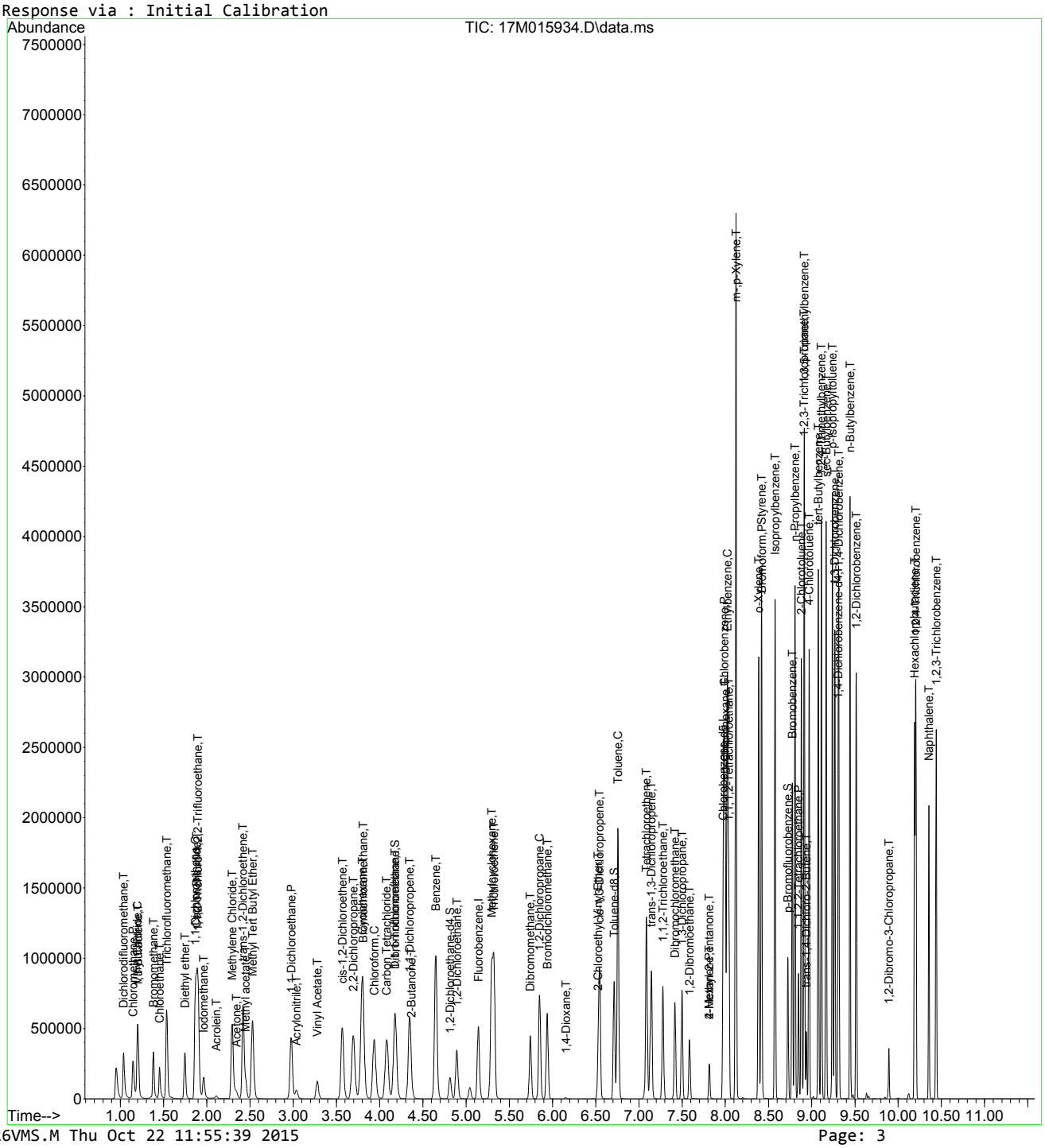
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,1,2-Trichloroethane	7.278	97	192908	46.2253	ug/L		98
51) Dibromochloromethane	7.417	129	261839	47.5893	ug/L		100
52) 1,3-Dichloropropane	7.498	76	314679	48.4904	ug/L		94
53) 1,2-Dibromoethane	7.585	107	193552	45.8656	ug/L		100
54) 2-Hexanone	7.813	43	98369	46.5033	ug/L		95
55) Chlorobenzene	7.987	112	738571	49.7698	ug/L		98
56) 1-Chlorohexane	7.999	69	69530	51.7993	ug/L		93
57) Ethylbenzene	8.022	106	396456	49.7602	ug/L		96
58) 1,1,1,2-Tetrachloroethane	8.039	131	273518	48.9869	ug/L		99
59) m-,p-Xylene	8.123	106	989487	104.6051	ug/L		99
60) o-Xylene	8.387	106	470813	49.5168	ug/L		100
61) Styrene	8.419	104	781703	50.8672	ug/L		100
62) Bromoform	8.422	173	177386	47.9289	ug/L		99
63) Isopropylbenzene	8.575	105	1248358	50.8226	ug/L		99
65) 1,3,5-Trimethylbenzene	8.914	105	1113811	50.1995	ug/L		99
67) Bromobenzene	8.775	156	337925	44.9105	ug/L		97
68) n-Propylbenzene	8.807	91	1476952	52.3178	ug/L		98
69) 1,1,2,2-Tetrachloroethane	8.847	83	226545	44.9978	ug/L		99
70) 2-Chlorotoluene	8.879	91	870052	49.1159	ug/L		99
71) 1,2,3-Trichloropropane	8.911	110	62251	44.7398	ug/L		91
72) trans-1,4-Dichloro-2-B...	8.937	53	42926	46.3535	ug/L	#	95
73) 1,2,4-Trimethylbenzene	9.111	105	1122288	50.9297	ug/L		100
74) 4-Chlorotoluene	8.969	91	896352	50.5069	ug/L		99
75) tert-Butylbenzene	9.076	134	207255	47.4698	ug/L		99
76) sec-Butylbenzene	9.166	105	1404771	51.8478	ug/L		98
77) p-Isopropyltoluene	9.238	119	1224067	52.1303	ug/L		99
78) 1,3-Dichlorobenzene	9.267	146	656660	50.5096	ug/L		100
79) 1,4-Dichlorobenzene	9.313	146	654065	49.5631	ug/L		100
80) n-Butylbenzene	9.444	91	1122306	56.5665	ug/L		97
81) 1,2-Dichlorobenzene	9.516	146	615868	48.1469	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.892	75	40867	45.8897	ug/L		93
83) Hexachlorobutadiene	10.191	225	262942	45.8499	ug/L		100
84) 1,2,4-Trichlorobenzene	10.205	180	468350	49.5194	ug/L		100
85) Naphthalene	10.356	128	746560	41.7865	ug/L		100
86) 1,2,3-Trichlorobenzene	10.440	180	399791	44.4253	ug/L		100

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015934.D
Acq On : 22 Oct 2015 11:41
Operator : ADC
Sample : WG543912-02 50ug/L CCV STD
Misc : 1,1 STD72875
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 22 11:55:38 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015934.D
Acq On : 22 Oct 2015 11:41
Operator : ADC
Sample : WG543912-02 50ug/L CCV STD
Misc : 1,1 STD72875
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 22 11:55:38 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
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	99	0.000
2	T	Dichlorodifluoromethane	0.315	0.286	9.2	86	0.000
3	P	Chloromethane	0.255	0.281	-10.2	111	0.000
4	C	Vinyl Chloride	0.295	0.327	-10.8#	111	0.000
5	T	1,3-Butadiene	0.229	0.092	59.8#	41#	0.000
6	T	Bromomethane	0.163	0.161	1.2	135	0.000
7	T	Chloroethane	0.159	0.158	0.6	122	0.000
8	T	Trichlorofluoromethane	0.436	0.451	-3.4	103	0.000
9	T	Diethyl ether	0.186	0.161	13.4	94	0.000
10	C	1,1-Dichloroethene	0.373	0.411	-10.2#	113	0.000
11	T	Carbon Disulfide	0.816	0.567	30.5#	72	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.264	0.265	-0.4	100	0.000
13	T	Iodomethane	0.396	0.178	55.1#	38#	0.000
14	T	Acrolein	0.030	0.015	50.0#	60	0.000
15	T	Methylene Chloride	0.282	0.275	2.5	105	0.000
16	T	Acetone	0.042	0.041	2.4	112	0.000
17	T	trans-1,2-Dichloroethene	0.267	0.263	1.5	102	0.000
18	T	Methyl acetate	0.156	0.146	6.4	111	0.000
19	T	Methyl Tert Butyl Ether	0.651	0.606	6.9	103	0.000
20	P	1,1-Dichloroethane	0.462	0.501	-8.4	112	0.000
21	T	Acrylonitrile	0.058	0.056	3.4	107	0.000
22	T	Vinyl Acetate	0.016	0.021	-31.3#	123	0.000
23	T	cis-1,2-Dichloroethene	0.304	0.295	3.0	102	0.000
24	T	2,2-Dichloropropane	0.388	0.416	-7.2	103	0.000
25	T	Cyclohexane	0.424	0.400	5.7	97	0.000
26	T	Bromochloromethane	0.191	0.185	3.1	101	0.000
27	C	Chloroform	0.496	0.485	2.2#	106	0.000
28	T	Carbon Tetrachloride	0.400	0.399	0.3	100	0.000
29	S	Dibromofluoromethane	0.256	0.264	-3.1	99	0.000
30	T	1,1,1-Trichloroethane	0.445	0.431	3.1	101	0.000
31	T	1,1-Dichloropropene	0.355	0.368	-3.7	106	0.000
32	T	2-Butanone	0.069	0.069	0.0	115	0.000
33	T	Benzene	1.068	1.086	-1.7	106	0.000
34	S	1,2-Dichloroethane-d4	0.233	0.244	-4.7	103	0.000
35	T	1,2-Dichloroethane	0.319	0.315	1.3	106	0.000
36	T	Methylcyclohexane	0.482	0.439	8.9	93	0.000
37	T	Trichloroethene	0.322	0.311	3.4	102	0.000
38	T	Dibromomethane	0.158	0.154	2.5	103	0.000
39	C	1,2-Dichloropropane	0.273	0.296	-8.4#	113	0.000
40	T	Bromodichloromethane	0.368	0.371	-0.8	104	0.000
41	T	1,4-Dioxane	0.002	0.002	0.0	97	0.000
42	T	2-Chloroethyl Vinyl Ether	0.124	0.127	-2.4	107	0.000
43	T	cis-1,3-Dichloropropene	0.421	0.436	-3.6	106	0.000
44	T	4-Methyl-2-Pentanone	0.063	0.056	11.1	101	0.000
45	T	trans-1,3-Dichloropropene	0.359	0.364	-1.4	105	0.000
46	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.000
47	S	Toluene-d8	1.282	1.317	-2.7	99	0.000
48	C	Toluene	1.709	1.625	4.9#	103	0.000
49	T	Tetrachloroethene	0.470	0.442	6.0	96	0.000
50	T	1,1,2-Trichloroethane	0.302	0.280	7.3	102	0.000
51	T	Dibromochloromethane	0.399	0.379	5.0	99	0.000
52	T	1,3-Dichloropropane	0.470	0.456	3.0	106	0.000
53	T	1,2-Dibromoethane	0.306	0.280	8.5	101	0.000
54	T	2-Hexanone	0.153	0.143	6.5	109	0.000
55	P	Chlorobenzene	1.075	1.070	0.5	103	0.000

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015934.D
Acq On : 22 Oct 2015 11:41
Operator : ADC
Sample : WG543912-02 50ug/L CCV STD
Misc : 1,1 STD72875
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 22 11:55:38 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
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	1-Chlorohexane	0.097	0.101	-4.1	107	0.000
57	C	Ethylbenzene	0.577	0.574	0.5#	102	0.000
58	T	1,1,1,2-Tetrachloroethane	0.405	0.396	2.2	101	0.000
59	T	m-,p-Xylene	0.685	0.717	-4.7	105	0.000
60	T	o-Xylene	0.689	0.682	1.0	102	0.000
61	T	Styrene	1.113	1.133	-1.8	103	0.000
62	P	Bromoform	0.268	0.257	4.1	99	0.000
63	T	Isopropylbenzene	1.780	1.809	-1.6	102	0.000
64	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.000
65	T	1,3,5-Trimethylbenzene	2.937	2.949	-0.4	104	0.000
66	S	p-Bromofluorobenzene	0.865	0.842	2.7	96	0.000
67	T	Bromobenzene	0.996	0.895	10.1	100	0.000
68	T	n-Propylbenzene	3.737	3.910	-4.6	107	0.000
69	P	1,1,2,2-Tetrachloroethane	0.666	0.600	9.9	103	0.000
70	T	2-Chlorotoluene	2.345	2.303	1.8	104	0.000
71	T	1,2,3-Trichloropropane	0.184	0.165	10.3	104	0.000
72	T	trans-1,4-Dichloro-2-Butene	0.123	0.114	7.3	95	0.000
73	T	1,2,4-Trimethylbenzene	2.917	2.971	-1.9	105	0.000
74	T	4-Chlorotoluene	2.349	2.373	-1.0	107	0.000
75	T	tert-Butylbenzene	0.578	0.549	5.0	101	0.000
76	T	sec-Butylbenzene	3.586	3.719	-3.7	106	0.000
77	T	p-Isopropyltoluene	3.108	3.241	-4.3	104	0.000
78	T	1,3-Dichlorobenzene	1.721	1.738	-1.0	107	0.000
79	T	1,4-Dichlorobenzene	1.747	1.732	0.9	108	0.000
80	T	n-Butylbenzene	2.626	2.971	-13.1	111	0.000
81	T	1,2-Dichlorobenzene	1.693	1.630	3.7	106	0.000
82	T	1,2-Dibromo-3-Chloropropane	0.118	0.108	8.5	104	0.000
83	T	Hexachlorobutadiene	0.759	0.696	8.3	97	-0.011
84	T	1,2,4-Trichlorobenzene	1.252	1.240	1.0	105	-0.012
85	T	Naphthalene	2.365	1.976	16.4	95	-0.017
86	T	1,2,3-Trichlorobenzene	1.191	1.058	11.2	98	-0.020

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015934.D
Acq On : 22 Oct 2015 11:41
Operator : ADC
Sample : WG543912-02 50ug/L CCV STD
Misc : 1,1 STD72875
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 22 11:55:38 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
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	45.375	9.3	86	0.000
3	P	Chloromethane	50.000	55.078	-10.2	111	0.000
4	C	Vinyl Chloride	50.000	55.339	-10.7#	111	0.000
5	T	1,3-Butadiene	50.000	20.161	59.7#	41	0.000
6	T	Bromomethane	50.000	49.591	0.8	135	0.000
7	T	Chloroethane	50.000	58.149	-16.3	122	0.000
8	T	Trichlorofluoromethane	50.000	51.703	-3.4	103	0.000
9	T	Diethyl ether	50.000	43.378	13.2	94	0.000
10	C	1,1-Dichloroethene	50.000	55.150	-10.3#	113	0.000
11	T	Carbon Disulfide	50.000	34.764	30.5#	72	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	50.250	-0.5	100	0.000
13	T	Iodomethane	50.000	19.551	60.9#	38	0.000
14	T	Acrolein	50.000	25.703	48.6#	60	0.000
15	T	Methylene Chloride	50.000	48.864	2.3	105	0.000
16	T	Acetone	50.000	48.329	3.3	112	0.000
17	T	trans-1,2-Dichloroethene	50.000	49.198	1.6	102	0.000
18	T	Methyl acetate	50.000	46.644	6.7	111	0.000
19	T	Methyl Tert Butyl Ether	50.000	46.576	6.8	103	0.000
20	P	1,1-Dichloroethane	50.000	54.206	-8.4	112	0.000
21	T	Acrylonitrile	50.000	48.285	3.4	107	0.000
22	T	Vinyl Acetate	50.000	62.493	-25.0	123	0.000
23	T	cis-1,2-Dichloroethene	50.000	48.471	3.1	102	0.000
24	T	2,2-Dichloropropane	50.000	53.569	-7.1	103	0.000
25	T	Cyclohexane	50.000	47.139	5.7	97	0.000
26	T	Bromochloromethane	50.000	48.492	3.0	101	0.000
27	C	Chloroform	50.000	48.857	2.3#	106	0.000
28	T	Carbon Tetrachloride	50.000	49.868	0.3	100	0.000
29	S	Dibromofluoromethane	25.000	25.776	-3.1	99	0.000
30	T	1,1,1-Trichloroethane	50.000	48.352	3.3	101	0.000
31	T	1,1-Dichloropropene	50.000	51.873	-3.7	106	0.000
32	T	2-Butanone	50.000	49.964	0.1	115	0.000
33	T	Benzene	50.000	50.851	-1.7	106	0.000
34	S	1,2-Dichloroethane-d4	25.000	26.104	-4.4	103	0.000
35	T	1,2-Dichloroethane	50.000	49.473	1.1	106	0.000
36	T	Methylcyclohexane	50.000	45.592	8.8	93	0.000
37	T	Trichloroethene	50.000	48.209	3.6	102	0.000
38	T	Dibromomethane	50.000	48.714	2.6	103	0.000
39	C	1,2-Dichloropropane	50.000	54.318	-8.6#	113	0.000
40	T	Bromodichloromethane	50.000	50.328	-0.7	104	0.000
41	T	1,4-Dioxane	100.000	85.777	14.2	97	0.000
42	T	2-Chloroethyl Vinyl Ether	50.000	51.246	-2.5	107	0.000
43	T	cis-1,3-Dichloropropene	50.000	51.845	-3.7	106	0.000
44	T	4-Methyl-2-Pentanone	50.000	44.294	11.4	101	0.000
45	T	trans-1,3-Dichloropropene	50.000	50.713	-1.4	105	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
47	S	Toluene-d8	25.000	25.687	-2.7	99	0.000
48	C	Toluene	50.000	47.520	5.0#	103	0.000
49	T	Tetrachloroethene	50.000	47.018	6.0	96	0.000
50	T	1,1,2-Trichloroethane	50.000	46.225	7.5	102	0.000
51	T	Dibromochloromethane	50.000	47.589	4.8	99	0.000
52	T	1,3-Dichloropropane	50.000	48.490	3.0	106	0.000
53	T	1,2-Dibromoethane	50.000	45.866	8.3	101	0.000
54	T	2-Hexanone	50.000	46.503	7.0	109	0.000
55	P	Chlorobenzene	50.000	49.770	0.5	103	0.000

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015934.D
Acq On : 22 Oct 2015 11:41
Operator : ADC
Sample : WG543912-02 50ug/L CCV STD
Misc : 1,1 STD72875
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 22 11:55:38 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
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	1-Chlorohexane	50.000	51.799	-3.6	107	0.000
57	C	Ethylbenzene	50.000	49.760	0.5#	102	0.000
58	T	1,1,1,2-Tetrachloroethane	50.000	48.987	2.0	101	0.000
59	T	m-,p-Xylene	100.000	104.605	-4.6	105	0.000
60	T	o-Xylene	50.000	49.517	1.0	102	0.000
61	T	Styrene	50.000	50.867	-1.7	103	0.000
62	P	Bromoform	50.000	47.929	4.1	99	0.000
63	T	Isopropylbenzene	50.000	50.823	-1.6	102	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	104	0.000
65	T	1,3,5-Trimethylbenzene	50.000	50.200	-0.4	104	0.000
66	S	p-Bromofluorobenzene	25.000	24.336	2.7	96	0.000
67	T	Bromobenzene	50.000	44.911	10.2	100	0.000
68	T	n-Propylbenzene	50.000	52.318	-4.6	107	0.000
69	P	1,1,2,2-Tetrachloroethane	50.000	44.998	10.0	103	0.000
70	T	2-Chlorotoluene	50.000	49.116	1.8	104	0.000
71	T	1,2,3-Trichloropropane	50.000	44.740	10.5	104	0.000
72	T	trans-1,4-Dichloro-2-Butene	50.000	46.354	7.3	95	0.000
73	T	1,2,4-Trimethylbenzene	50.000	50.930	-1.9	105	0.000
74	T	4-Chlorotoluene	50.000	50.507	-1.0	107	0.000
75	T	tert-Butylbenzene	50.000	47.470	5.1	101	0.000
76	T	sec-Butylbenzene	50.000	51.848	-3.7	106	0.000
77	T	p-Isopropyltoluene	50.000	52.130	-4.3	104	0.000
78	T	1,3-Dichlorobenzene	50.000	50.510	-1.0	107	0.000
79	T	1,4-Dichlorobenzene	50.000	49.563	0.9	108	0.000
80	T	n-Butylbenzene	50.000	56.567	-13.1	111	0.000
81	T	1,2-Dichlorobenzene	50.000	48.147	3.7	106	0.000
82	T	1,2-Dibromo-3-Chloropropane	50.000	45.890	8.2	104	0.000
83	T	Hexachlorobutadiene	50.000	45.850	8.3	97	-0.011
84	T	1,2,4-Trichlorobenzene	50.000	49.519	1.0	105	-0.012
85	T	Naphthalene	50.000	41.787	16.4	95	-0.017
86	T	1,2,3-Trichlorobenzene	50.000	44.425	11.2	98	-0.020

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\102315\8M408227.D Vial: 3
Acq On : 23 Oct 2015 10:40 Operator: TMB
Sample : WG544055-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD73133 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 11:02:04 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	721053	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.57	117	551418	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	316162	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	173823	25.3292	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.32%			
43) 1,2-Dichloroethane-d4	10.31	65	178068	25.4496	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 101.80%			
58) Toluene-d8	12.68	98	639469	24.9942	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.96%			
80) p-Bromofluorobenzene	16.08	95	262187	23.7674	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 95.08%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	490705	44.7636	ug/L	99
3) Chloromethane	3.63	50	849514	50.7870	ug/L	99
4) Vinyl Chloride	3.85	62	639659	48.3925	ug/L	100
5) 1,3-Butadiene	3.89	54	316114	34.6246	ug/L	97
6) Bromomethane	4.75	94	237113	52.3451	ug/L	99
7) Chloroethane	4.90	64	297283	55.1280	ug/L	98
8) Trichlorofluoromethane	5.39	101	712142	55.7431	ug/L	98
9) Diethyl ether	5.91	59	488425	99.3316	ug/L	98
10) Isoprene	5.94	67	427787	45.6100	ug/L	97
11) Acrolein	6.15	56	19666	32.2266	ug/L	94
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	391821	57.0558	ug/L	97
13) Acetone	6.25	43	63114	58.9724	ug/L	97
14) 1,1-Dichloroethene	6.47	61	671153	57.4126	ug/L	99
15) Tert-Butyl Alcohol	6.60	59	66938	211.6754	ug/L	96
16) Dimethyl Sulfide	6.74	62	311072	46.3644	ug/L	99
17) Iodomethane	6.99	142	241592	53.9842	ug/L	93
18) Methyl acetate	7.01	43	213061	52.6455	ug/L	98
19) Methylene Chloride	7.26	84	394662	54.3591	ug/L	99
20) Carbon Disulfide	7.30	76	1048875	44.2442	ug/L	99
21) Acrylonitrile	7.44	53	87272	54.3199	ug/L	99
22) Methyl Tert Butyl Ether	7.47	73	765100	55.5914	ug/L	99
23) trans-1,2-Dichloroethene	7.71	61	632857	57.0072	ug/L	98
24) n-Hexane	7.79	57	526154	47.9780	ug/L	96
25) Diisopropyl ether	8.14	45	2902067	106.0462	ug/L	99
26) Vinyl Acetate	8.30	43	420014	57.7486	ug/L	98
27) 1,1-Dichloroethane	8.33	63	798103	56.6139	ug/L	99
28) Ethyl-Tert-Butyl ether	8.70	59	2265777	105.1162	ug/L	97
29) 2-Butanone	8.89	43	99656	54.0475	ug/L	98
30) Propionitrile	8.99	54	58759	108.6084	ug/L	98
31) 2,2-Dichloropropane	9.11	77	669756	56.8480	ug/L	100
32) cis-1,2-Dichloroethene	9.17	96	446814	56.4104	ug/L	99
33) Chloroform	9.39	83	748188	55.8720	ug/L	99
34) 1-Bromopropane	9.52	122	67262	51.7129	ug/L	95
35) Bromochloromethane	9.61	130	223504	57.3204	ug/L	98
36) Tetrahydrofuran	9.63	42	154254	127.4456	ug/L	98
38) 1,1,1-Trichloroethane	9.91	97	686335	57.0981	ug/L	98
39) Cyclohexane	9.94	56	708116	49.5049	ug/L	98
40) 1,1-Dichloropropene	10.11	75	584032	56.4315	ug/L	98
41) Tert-Amyl-Methyl ether	10.21	73	1639223	102.5681	ug/L	98
42) Carbon Tetrachloride	10.25	117	626830	58.3493	ug/L	99

(#) = qualifier out of range (m) = manual integration
8M408227.D 8260WT.M Fri Oct 23 11:02:05 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\102315\8M408227.D Vial: 3
Acq On : 23 Oct 2015 10:40 Operator: TMB
Sample : WG544055-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD73133 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 11:02:04 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

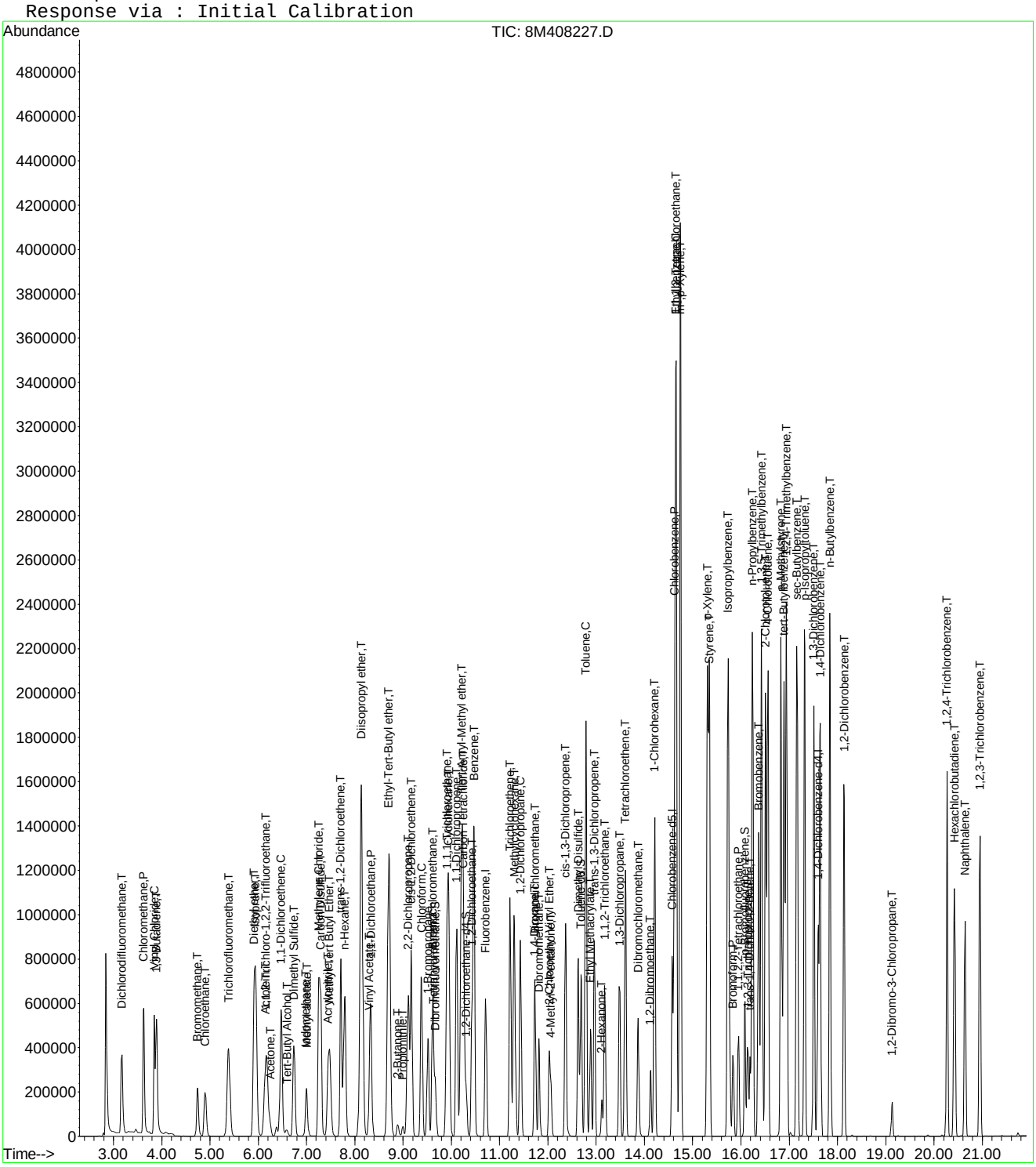
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	519126	56.4533	ug/L		98
46)	Benzene	10.47	78	1619638	57.0338	ug/L		100
47)	Trichloroethene	11.22	130	422882	55.3159	ug/L		96
48)	Methylcyclohexane	11.31	83	597283	50.4935	ug/L		98
49)	1,2-Dichloropropane	11.43	63	419395	54.8206	ug/L		96
50)	Bromodichloromethane	11.73	83	555752	56.2809	ug/L		100
51)	1,4-Dioxane	11.72	88	8562	243.0933	ug/L		83
52)	Dibromomethane	11.81	93	199430	54.7447	ug/L		96
53)	2-Chloroethyl Vinyl Ether	12.03	63	172694	54.7674	ug/L		96
54)	4-Methyl-2-Pentanone	12.06	58	85112	52.6160	ug/L		97
55)	cis-1,3-Dichloropropene	12.36	75	615161	56.1187	ug/L		99
56)	Dimethyl Disulfide	12.63	79	294533	49.8296	ug/L		98
59)	Toluene	12.79	91	1695876	54.1231	ug/L		100
60)	Ethyl Methacrylate	12.88	69	318286	50.9504	ug/L		95
62)	trans-1,3-Dichloropropene	12.96	75	515025	53.5770	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	259423	52.1631	ug/L		99
64)	2-Hexanone	13.12	58	78109	49.9545	ug/L	#	93
65)	1,3-Dichloropropane	13.49	76	454853	51.1786	ug/L		95
66)	Tetrachloroethene	13.60	164	362802	54.4658	ug/L		97
67)	Dibromochloromethane	13.87	129	347546	54.0504	ug/L		99
68)	1,2-Dibromoethane	14.12	107	259949	52.3541	ug/L		98
69)	1-Chlorohexane	14.21	91	561018	50.0370	ug/L		99
70)	Chlorobenzene	14.63	112	1110092	52.8729	ug/L		99
71)	1,1,1,2-Tetrachloroethane	14.66	131	427934	55.1240	ug/L		97
72)	Ethylbenzene	14.66	106	643827	52.6403	ug/L		93
73)	m-,p-Xylene	14.75	106	1533136	109.3052	ug/L		96
74)	o-Xylene	15.31	106	733305	51.6997	ug/L		96
75)	Styrene	15.35	104	1239252	55.1446	ug/L		99
76)	Bromoform	15.84	173	218736	56.5870	ug/L		99
77)	Isopropylbenzene	15.73	105	1914133	56.2572	ug/L		100
79)	1,1,2,2-Tetrachloroethane	15.95	83	288877	49.5245	ug/L		100
81)	1,2,3-Trichloropropane	16.15	110	80487	49.6569	ug/L		66
82)	trans-1,4-Dichloro-2-Buten	16.19	53	111402	51.9722	ug/L	#	64
83)	n-Propylbenzene	16.24	91	2360573	51.5692	ug/L		99
84)	Bromobenzene	16.37	156	477976	51.4394	ug/L		99
85)	1,3,5-Trimethylbenzene	16.42	105	1686057	53.5739	ug/L		99
86)	2-Chlorotoluene	16.51	91	1614697	53.2571	ug/L		99
87)	4-Chlorotoluene	16.56	91	1307497	49.8649	ug/L		98
88)	a-Methylstyrene	16.83	118	867865	50.5838	ug/L		99
89)	tert-Butylbenzene	16.89	134	355427	51.3366	ug/L		90
90)	1,2,4-Trimethylbenzene	16.94	105	1729856	54.3940	ug/L		99
91)	sec-Butylbenzene	17.16	105	2087754	53.4018	ug/L		97
92)	p-Isopropyltoluene	17.32	119	1754248	56.1216	ug/L		95
93)	1,3-Dichlorobenzene	17.51	146	966053	52.0872	ug/L		99
94)	1,4-Dichlorobenzene	17.64	146	954031	51.6554	ug/L		96
95)	n-Butylbenzene	17.84	91	1742873	59.8131	ug/L		96
96)	1,2-Dichlorobenzene	18.14	146	845239	52.0831	ug/L		98
97)	1,2-Dibromo-3-Chloropropan	19.13	75	49848	48.7657	ug/L		95
98)	1,2,4-Trichlorobenzene	20.27	180	633100	56.7827	ug/L		100
99)	Hexachlorobutadiene	20.42	225	310677	58.2571	ug/L		99
100)	Naphthalene	20.64	128	930137	57.7031	ug/L		98
101)	1,2,3-Trichlorobenzene	20.95	180	526569	55.3828	ug/L		99

(#) = qualifier out of range (m) = manual integration
8M408227.D 8260WT.M Fri Oct 23 11:02:05 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\102315\8M408227.D Vial: 3
Acq On : 23 Oct 2015 10:40 Operator: TMB
Sample : WG544055-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD73133 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 11:02 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration



Continuing Calibration Area and RT check

Instrument: HPMS8
Initial cal date: 30 Sep 2015 13:27
CCV date: 23 Oct 2015 10:40
CCV Filename: 8M408227.D

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Amount	RT	Amount	RT	Amount	RT
InitCal	938292	10.72	687265	14.58	378981	17.60
CCV	721053	10.71	551418	14.57	316162	17.60

Data File : C:\MSDCHEM\2\DATA\102315\8M408227.D Vial: 3
Acq On : 23 Oct 2015 10:40 Operator: TMB
Sample : WG544055-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD73133 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
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	77	0.00
2	T	Dichlorodifluoromethane	0.3801	0.3403	10.5	67	0.00
3	P	Chloromethane	0.5799	0.5891	-1.6	78	0.01
4	C	Vinyl Chloride	0.4583	0.4436	3.2	80	0.00
5	T	1,3-Butadiene	0.2992	0.2192	26.7#	53	0.00
6	T	Bromomethane	0.1393	0.1644	-18.0	89	0.01
7	T	Chloroethane	0.1870	0.2062	-10.3	84	0.00
8	T	Trichlorofluoromethane	0.4429	0.4938	-11.5	89	0.00
9	T	Diethyl ether	0.1705	0.1693	0.7	80	0.00
10	T	Isoprene	0.3252	0.2966	8.8	66	-0.01
11	T	Acrolein	0.0212	0.0136	35.5#	53	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.2381	0.2717	-14.1	90	0.00
13	T	Acetone	0.0371	0.0438	-17.9	101	0.00
14	C	1,1-Dichloroethene	0.4053	0.4654	-14.8	92	0.00
15	T	Tert-Butyl Alcohol	0.0110	0.0116	-5.8	90	0.01
16	T	Dimethyl Sulfide	0.2326	0.2157	7.3	70	0.00
17	T	Iodomethane	0.1277	0.1675	-31.1#	86	0.00
18	T	Methyl acetate	0.1403	0.1477	-5.3	89	0.00
19	T	Methylene Chloride	0.2517	0.2737	-8.7	86	0.00
20	T	Carbon Disulfide	0.8219	0.7273	11.5	66	0.00
21	T	Acrylonitrile	0.0557	0.0605	-8.7	85	0.00
22	T	Methyl Tert Butyl Ether	0.4772	0.5305	-11.2	88	0.00
23	T	trans-1,2-Dichloroethene	0.3849	0.4388	-14.0	88	0.00
24	T	n-Hexane	0.3802	0.3649	4.0	72	0.00
25	T	Diisopropyl ether	0.9488	1.0062	-6.0	82	0.00
26	T	Vinyl Acetate	0.2522	0.2913	-15.5	88	0.00
27	P	1,1-Dichloroethane	0.4888	0.5534	-13.2	89	0.00
28	T	Ethyl-Tert-Butyl ether	0.7473	0.7856	-5.1	82	0.00
29	T	2-Butanone	0.0639	0.0691	-8.1	90	0.00
30	T	Propionitrile	0.0188	0.0204	-8.6	89	0.00
31	T	2,2-Dichloropropane	0.4085	0.4644	-13.7	89	0.00
32	T	cis-1,2-Dichloroethene	0.2746	0.3098	-12.8	89	0.00
33	C	Chloroform	0.4643	0.5188	-11.7	87	0.00
34		1-Bromopropane	0.0451	0.0466	-3.4	75	0.00
35	T	Bromochloromethane	0.1352	0.1550	-14.6	88	0.00
36	T	Tetrahydrofuran	0.0420	0.0535	-27.5#	106	0.00
37	S	Dibromofluoromethane	0.2379	0.2411	-1.3	78	0.00
38	T	1,1,1-Trichloroethane	0.4168	0.4759	-14.2	87	0.00
39	T	Cyclohexane	0.4959	0.4910	1.0	75	0.00
40	T	1,1-Dichloropropene	0.3588	0.4050	-12.9	87	0.00
41	T	Tert-Amyl-Methyl ether	0.5541	0.5683	-2.6	81	0.00
42	T	Carbon Tetrachloride	0.3725	0.4347	-16.7	88	0.00
43	S	1,2-Dichloroethane-d4	0.2426	0.2470	-1.8	78	0.00
44		Heptane	0.0000	0.0000	0.0	0#	-2.54#
45	T	1,2-Dichloroethane	0.3188	0.3600	-12.9	87	0.00
46	T	Benzene	0.9846	1.1231	-14.1	86	0.00
47	T	Trichloroethene	0.2651	0.2932	-10.6	87	0.00
48	T	Methylcyclohexane	0.4101	0.4142	-1.0	76	0.00
49	C	1,2-Dichloropropane	0.2652	0.2908	-9.6	85	0.00
50	T	Bromodichloromethane	0.3424	0.3854	-12.6	85	0.00
51	T	1,4-Dioxane	0.0012	0.0015	-21.3	99	0.00
52	T	Dibromomethane	0.1263	0.1383	-9.5	85	0.00
53	T	2-Chloroethyl Vinyl Ether	0.1093	0.1198	-9.5	89	0.00
54	T	4-Methyl-2-Pentanone	0.0561	0.0590	-5.2	89	0.00

(#) = Out of Range
8M408227.D 8260WT.M Fri Oct 23 11:03:57 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\102315\8M408227.D Vial: 3
Acq On : 23 Oct 2015 10:40 Operator: TMB
Sample : WG544055-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD73133 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
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	cis-1,3-Dichloropropene	0.3801	0.4266	-12.2	85	0.00
56	T	Dimethyl Disulfide	0.2049	0.2042	0.3	78	0.00
57	I	Chlorobenzene-d5	1.0000	1.0000	0.0	80	0.00
58	S	Toluene-d8	1.1600	1.1597	0.0	78	0.00
59	C	Toluene	1.4206	1.5377	-8.2	85	0.00
60	T	Ethyl Methacrylate	0.2832	0.2886	-1.9	81	0.00
61		Paraldehyde	0.0000	0.0000	0.0	0#	-13.14#
62	T	trans-1,3-Dichloropropene	0.4358	0.4670	-7.2	85	0.00
63	T	1,1,2-Trichloroethane	0.2255	0.2352	-4.3	87	0.00
64	T	2-Hexanone	0.0709	0.0708	0.1	87	0.00
65	T	1,3-Dichloropropane	0.4029	0.4124	-2.4	85	0.00
66	T	Tetrachloroethene	0.3020	0.3290	-8.9	90	0.00
67	T	Dibromochloromethane	0.2915	0.3151	-8.1	86	0.00
68	T	1,2-Dibromoethane	0.2251	0.2357	-4.7	86	0.00
69	T	1-Chlorohexane	0.5083	0.5087	-0.1	78	0.00
70	P	Chlorobenzene	0.9519	1.0066	-5.7	84	0.00
71	T	1,1,1,2-Tetrachloroethane	0.3520	0.3880	-10.2	87	0.00
72	C	Ethylbenzene	0.5545	0.5838	-5.3	86	0.00
73	T	m-,p-Xylene	0.6359	0.6951	-9.3	85	0.00
74	T	o-Xylene	0.6431	0.6649	-3.4	84	0.00
75	T	Styrene	1.0189	1.1237	-10.3	84	0.00
76	P	Bromoform	0.1752	0.1983	-13.2	91	0.00
77	T	Isopropylbenzene	1.5426	1.7356	-12.5	87	0.00
78	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	83	0.00
79	P	1,1,2,2-Tetrachloroethane	0.4612	0.4568	1.0	86	0.00
80	S	p-Bromofluorobenzene	0.8723	0.8293	4.9	79	0.00
81	T	1,2,3-Trichloropropane	0.1282	0.1273	0.7	86	0.00
82	T	trans-1,4-Dichloro-2-Butene	0.1695	0.1762	-3.9	87	0.00
83	T	n-Propylbenzene	3.6196	3.7332	-3.1	86	0.00
84	T	Bromobenzene	0.7348	0.7559	-2.9	87	0.00
85	T	1,3,5-Trimethylbenzene	2.4886	2.6664	-7.1	86	0.00
86	T	2-Chlorotoluene	2.3974	2.5536	-6.5	87	0.00
87	T	4-Chlorotoluene	2.0734	2.0678	0.3	80	0.00
88	T	a-Methylstyrene	1.3567	1.3725	-1.2	82	0.00
89	T	tert-Butylbenzene	0.5475	0.5621	-2.7	88	0.00
90	T	1,2,4-Trimethylbenzene	2.5147	2.7357	-8.8	87	0.00
91	T	sec-Butylbenzene	3.0914	3.3017	-6.8	89	0.00
92	T	p-Isopropyltoluene	2.4717	2.7743	-12.2	89	0.00
93	T	1,3-Dichlorobenzene	1.4666	1.5278	-4.2	87	0.00
94	T	1,4-Dichlorobenzene	1.4604	1.5088	-3.3	88	0.00
95	T	n-Butylbenzene	2.3041	2.7563	-19.6	93	0.00
96	T	1,2-Dichlorobenzene	1.2833	1.3367	-4.2	88	0.00
97	T	1,2-Dibromo-3-Chloropropane	0.0808	0.0788	2.5	84	0.00
98	T	1,2,4-Trichlorobenzene	0.8816	1.0012	-13.6	92	0.00
99	T	Hexachlorobutadiene	0.4217	0.4913	-16.5	98	0.00
100	T	Naphthalene	1.2746	1.4710	-15.4	98	0.00
101	T	1,2,3-Trichlorobenzene	0.7518	0.8327	-10.8	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M408227.D 8260WT.M Fri Oct 23 11:03:57 2015 Page 2

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\102315\8M408227.D Vial: 3
Acq On : 23 Oct 2015 10:40 Operator: TMB
Sample : WG544055-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD73133 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
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	77	0.00
2	T	Dichlorodifluoromethane	50.0000	44.7636	10.5	67	0.00
3	P	Chloromethane	50.0000	50.7870	-1.6	78	0.01
4	C	Vinyl Chloride	50.0000	48.3925	3.2	80	0.00
5	T	1,3-Butadiene	50.0000	34.6246	30.8#	53	0.00
6	T	Bromomethane	50.0000	52.3451	-4.7	89	0.01
7	T	Chloroethane	50.0000	55.1280	-10.3	84	0.00
8	T	Trichlorofluoromethane	50.0000	55.7431	-11.5	89	0.00
9	T	Diethyl ether	100.0000	99.3316	0.7	80	0.00
10	T	Isoprene	50.0000	45.6100	8.8	66	-0.01
11	T	Acrolein	50.0000	32.2266	35.5#	53	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	57.0558	-14.1	90	0.00
13	T	Acetone	50.0000	58.9724	-17.9	101	0.00
14	C	1,1-Dichloroethene	50.0000	57.4126	-14.8	92	0.00
15	T	Tert-Butyl Alcohol	200.0000	211.6754	-5.8	90	0.01
16	T	Dimethyl Sulfide	50.0000	46.3644	7.3	70	0.00
17	T	Iodomethane	50.0000	53.9842	-8.0	86	0.00
18	T	Methyl acetate	50.0000	52.6455	-5.3	89	0.00
19	T	Methylene Chloride	50.0000	54.3591	-8.7	86	0.00
20	T	Carbon Disulfide	50.0000	44.2442	11.5	66	0.00
21	T	Acrylonitrile	50.0000	54.3199	-8.6	85	0.00
22	T	Methyl Tert Butyl Ether	50.0000	55.5914	-11.2	88	0.00
23	T	trans-1,2-Dichloroethene	50.0000	57.0072	-14.0	88	0.00
24	T	n-Hexane	50.0000	47.9780	4.0	72	0.00
25	T	Diisopropyl ether	100.0000	106.0462	-6.0	82	0.00
26	T	Vinyl Acetate	50.0000	57.7486	-15.5	88	0.00
27	P	1,1-Dichloroethane	50.0000	56.6139	-13.2	89	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	105.1162	-5.1	82	0.00
29	T	2-Butanone	50.0000	54.0475	-8.1	90	0.00
30	T	Propionitrile	100.0000	108.6084	-8.6	89	0.00
31	T	2,2-Dichloropropane	50.0000	56.8480	-13.7	89	0.00
32	T	cis-1,2-Dichloroethene	50.0000	56.4104	-12.8	89	0.00
33	C	Chloroform	50.0000	55.8720	-11.7	87	0.00
34		1-Bromopropane	50.0000	51.7129	-3.4	75	0.00
35	T	Bromochloromethane	50.0000	57.3204	-14.6	88	0.00
36	T	Tetrahydrofuran	100.0000	127.4456	-27.4#	106	0.00
37	S	Dibromofluoromethane	25.0000	25.3292	-1.3	78	0.00
38	T	1,1,1-Trichloroethane	50.0000	57.0981	-14.2	87	0.00
39	T	Cyclohexane	50.0000	49.5049	1.0	75	0.00
40	T	1,1-Dichloropropene	50.0000	56.4315	-12.9	87	0.00
41	T	Tert-Amyl-Methyl ether	100.0000	102.5681	-2.6	81	0.00
42	T	Carbon Tetrachloride	50.0000	58.3493	-16.7	88	0.00
43	S	1,2-Dichloroethane-d4	25.0000	25.4496	-1.8	78	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	50.0000	56.4533	-12.9	87	0.00
46	T	Benzene	50.0000	57.0338	-14.1	86	0.00
47	T	Trichloroethene	50.0000	55.3159	-10.6	87	0.00
48	T	Methylcyclohexane	50.0000	50.4935	-1.0	76	0.00
49	C	1,2-Dichloropropane	50.0000	54.8206	-9.6	85	0.00
50	T	Bromodichloromethane	50.0000	56.2809	-12.6	85	0.00
51	T	1,4-Dioxane	200.0000	243.0933	-21.5	99	0.00
52	T	Dibromomethane	50.0000	54.7447	-9.5	85	0.00
53	T	2-Chloroethyl Vinyl Ether	50.0000	54.7674	-9.5	89	0.00
54	T	4-Methyl-2-Pentanone	50.0000	52.6160	-5.2	89	0.00

(#) = Out of Range
8M408227.D 8260WT.M Fri Oct 23 11:03:59 2015 Page 1

Data File : C:\MSDCHEM\2\DATA\102315\8M408227.D Vial: 3
Acq On : 23 Oct 2015 10:40 Operator: TMB
Sample : WG544055-02 50ug/L CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD73133 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
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	cis-1,3-Dichloropropene	50.0000	56.1187	-12.2	85	0.00
56	T	Dimethyl Disulfide	50.0000	49.8296	0.3	78	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	80	0.00
58	S	Toluene-d8	25.0000	24.9942	0.0	78	0.00
59	C	Toluene	50.0000	54.1231	-8.2	85	0.00
60	T	Ethyl Methacrylate	50.0000	50.9504	-1.9	81	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	50.0000	53.5770	-7.2	85	0.00
63	T	1,1,2-Trichloroethane	50.0000	52.1631	-4.3	87	0.00
64	T	2-Hexanone	50.0000	49.9545	0.1	87	0.00
65	T	1,3-Dichloropropane	50.0000	51.1786	-2.4	85	0.00
66	T	Tetrachloroethene	50.0000	54.4658	-8.9	90	0.00
67	T	Dibromochloromethane	50.0000	54.0504	-8.1	86	0.00
68	T	1,2-Dibromoethane	50.0000	52.3541	-4.7	86	0.00
69	T	1-Chlorohexane	50.0000	50.0370	-0.1	78	0.00
70	P	Chlorobenzene	50.0000	52.8729	-5.7	84	0.00
71	T	1,1,1,2-Tetrachloroethane	50.0000	55.1240	-10.2	87	0.00
72	C	Ethylbenzene	50.0000	52.6403	-5.3	86	0.00
73	T	m-,p-Xylene	100.0000	109.3053	-9.3	85	0.00
74	T	o-Xylene	50.0000	51.6997	-3.4	84	0.00
75	T	Styrene	50.0000	55.1446	-10.3	84	0.00
76	P	Bromoform	50.0000	56.5870	-13.2	91	0.00
77	T	Isopropylbenzene	50.0000	56.2572	-12.5	87	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	83	0.00
79	P	1,1,2,2-Tetrachloroethane	50.0000	49.5245	1.0	86	0.00
80	S	p-Bromofluorobenzene	25.0000	23.7674	4.9	79	0.00
81	T	1,2,3-Trichloropropane	50.0000	49.6569	0.7	86	0.00
82	T	trans-1,4-Dichloro-2-Butene	50.0000	51.9721	-3.9	87	0.00
83	T	n-Propylbenzene	50.0000	51.5692	-3.1	86	0.00
84	T	Bromobenzene	50.0000	51.4394	-2.9	87	0.00
85	T	1,3,5-Trimethylbenzene	50.0000	53.5740	-7.1	86	0.00
86	T	2-Chlorotoluene	50.0000	53.2571	-6.5	87	0.00
87	T	4-Chlorotoluene	50.0000	49.8649	0.3	80	0.00
88	T	a-Methylstyrene	50.0000	50.5838	-1.2	82	0.00
89	T	tert-Butylbenzene	50.0000	51.3366	-2.7	88	0.00
90	T	1,2,4-Trimethylbenzene	50.0000	54.3940	-8.8	87	0.00
91	T	sec-Butylbenzene	50.0000	53.4018	-6.8	89	0.00
92	T	p-Isopropyltoluene	50.0000	56.1216	-12.2	89	0.00
93	T	1,3-Dichlorobenzene	50.0000	52.0872	-4.2	87	0.00
94	T	1,4-Dichlorobenzene	50.0000	51.6554	-3.3	88	0.00
95	T	n-Butylbenzene	50.0000	59.8131	-19.6	93	0.00
96	T	1,2-Dichlorobenzene	50.0000	52.0831	-4.2	88	0.00
97	T	1,2-Dibromo-3-Chloropropane	50.0000	48.7657	2.5	84	0.00
98	T	1,2,4-Trichlorobenzene	50.0000	56.7827	-13.6	92	0.00
99	T	Hexachlorobutadiene	50.0000	58.2571	-16.5	98	0.00
100	T	Naphthalene	50.0000	57.7031	-15.4	98	0.00
101	T	1,2,3-Trichlorobenzene	50.0000	55.3828	-10.8	91	0.00

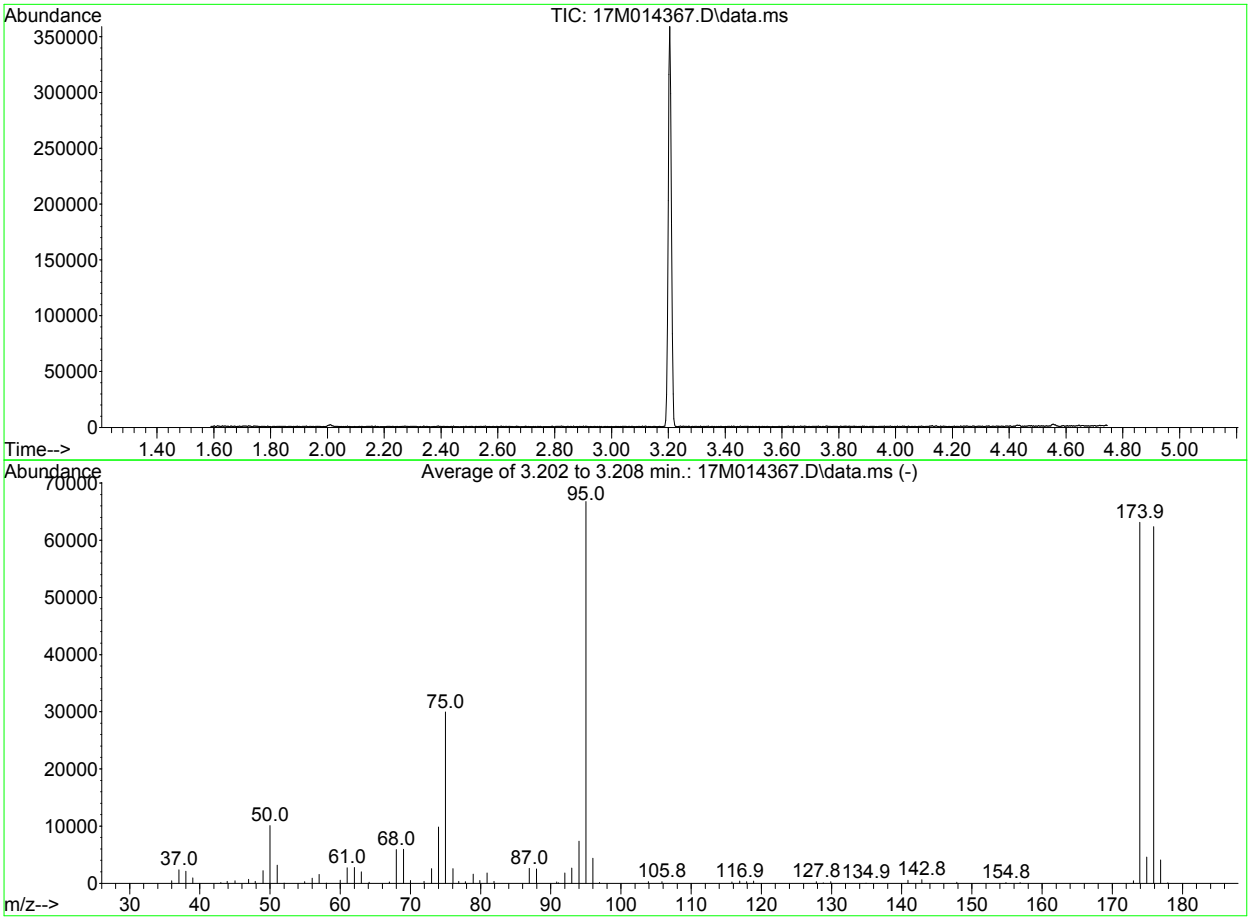
(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M408227.D 8260WT.M Fri Oct 23 11:03:59 2015 Page 2

2.1.1.5 Raw QC Data

Data Path : D:\MassHunter\GCMS\1\data\081215\
Data File : 17M014367.D
Acq On : 12 Aug 2015 14:50
Operator : ADC
Sample : WG534785-01 50ng BFB STD
Misc : 1,1 STD71644
ALS Vial : 1 Sample Multiplier: 1

Integration File: lscint.p

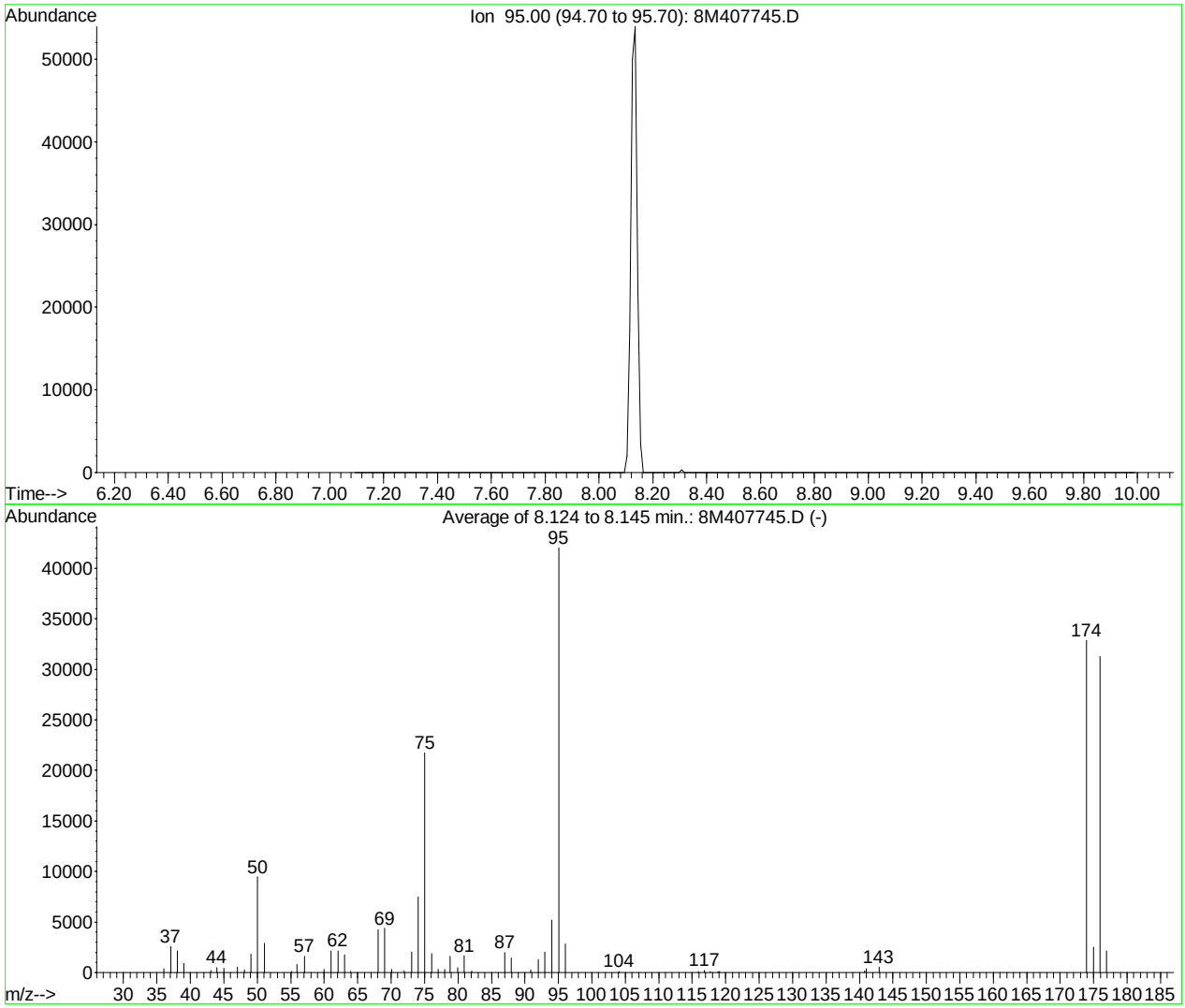
Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
Last Update : Thu Aug 20 16:10:41 2015



AutoFind: Scans 558, 559, 560; Background Corrected with Scan 548

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.1	10099	PASS
75	95	30	60	44.8	29957	PASS
95	95	100	100	100.0	66800	PASS
96	95	5	9	6.6	4386	PASS
173	174	0.00	2	0.7	449	PASS
174	95	50	100	94.5	63136	PASS
175	174	5	9	7.3	4587	PASS
176	174	95	101	98.8	62368	PASS
177	176	5	9	6.5	4082	PASS

```
Data File : C:\MSDCHEM\2\DATA\093015\8M407745.D          Vial: 2
Acq On    : 30 Sep 2015   9:38                    Operator: TMB
Sample    : WG540912-01 50ng BFB STD 8260         Inst    : HPMS8
Misc      : 1,1 STD72715                          Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\MSDCHEM\2\METHODS\BFB.M (RTE Integrator)
Title     : SOP:OVL MSV01
```

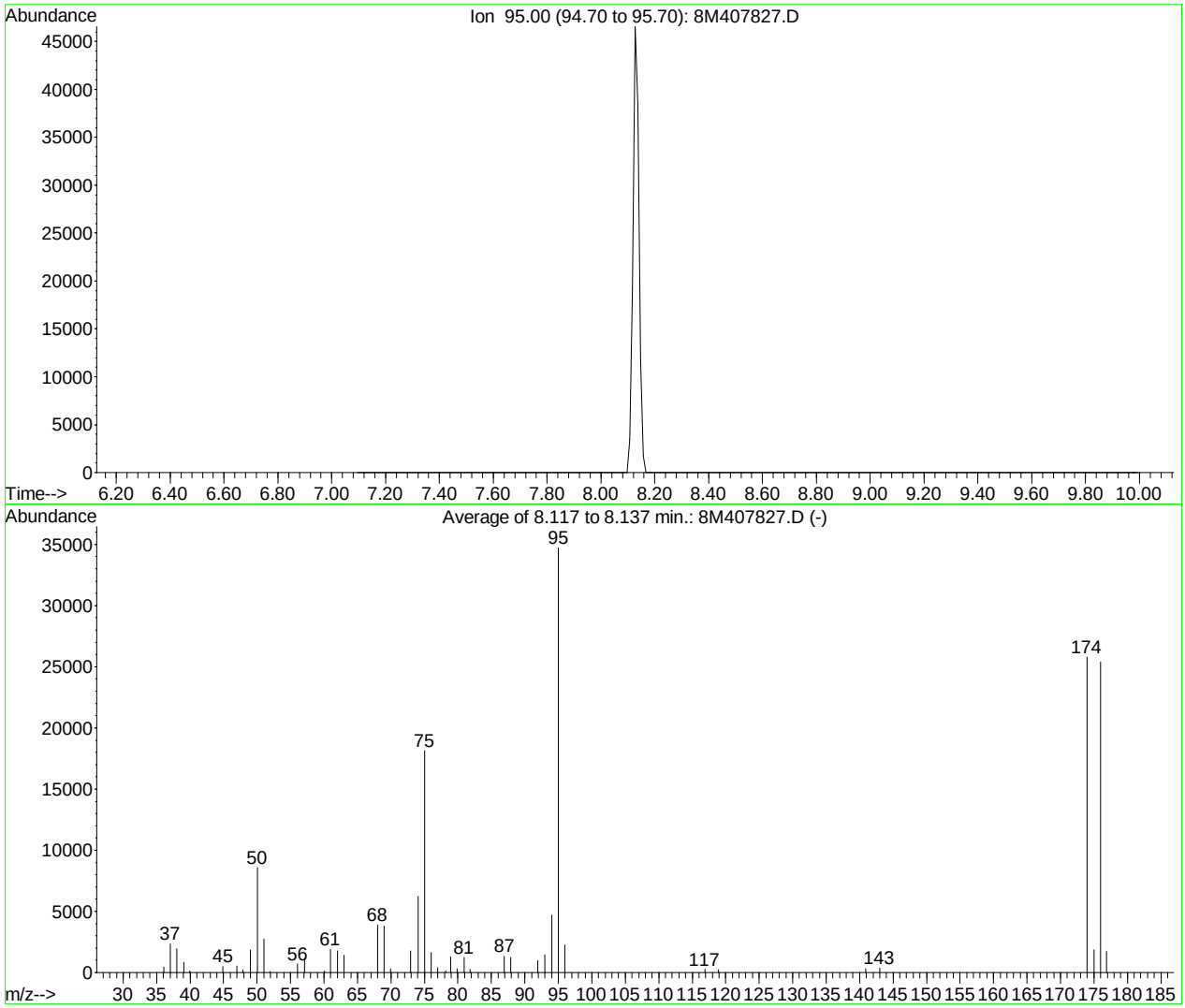


AutoFind: Scans 102, 103, 104; Background Corrected with Scan 97

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	9471	PASS
75	95	30	60	51.7	21732	PASS
95	95	100	100	100.0	42018	PASS
96	95	5	9	6.7	2835	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.3	32893	PASS
175	174	5	9	7.6	2510	PASS
176	174	95	101	95.1	31272	PASS
177	176	5	9	6.8	2141	PASS

8M407745.D BFB.M Wed Sep 30 09:54:57 2015

```
Data File : C:\MSDCHEM\2\DATA\100515\8M407827.D          Vial: 1
Acq On    :  5 Oct 2015  11:26                      Operator: TMB
Sample    : WG540826-01 50ng BFB STD 8260           Inst    : HPMS8
Misc      : 1,1 STD72715                            Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\MSDCHEM\2\METHODS\BFB.M (RTE Integrator)
Title     : SOP:OVL MSV01
```



AutoFind: Scans 101, 102, 103; Background Corrected with Scan 97

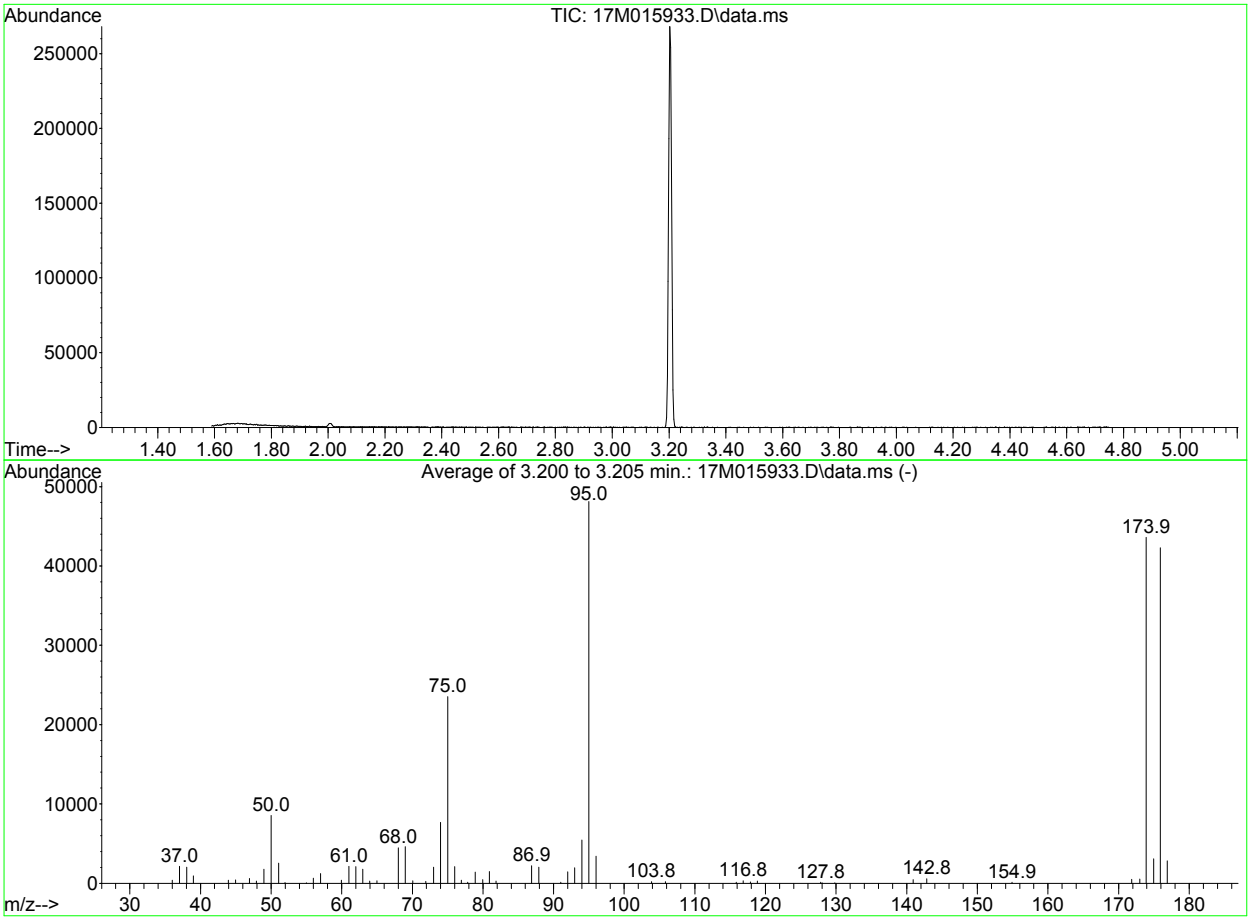
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.7	8565	PASS
75	95	30	60	52.2	18121	PASS
95	95	100	100	100.0	34714	PASS
96	95	5	9	6.5	2262	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.2	25773	PASS
175	174	5	9	7.2	1845	PASS
176	174	95	101	98.5	25378	PASS
177	176	5	9	6.9	1746	PASS

8M407827.D BFB.M Mon Oct 05 12:46:56 2015

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015933.D
Acq On : 22 Oct 2015 11:24
Operator : ADC
Sample : WG543912-01 50ng BFB STD
Misc : 1,1 STD72715
ALS Vial : 1 Sample Multiplier: 1

Integration File: lscint.p

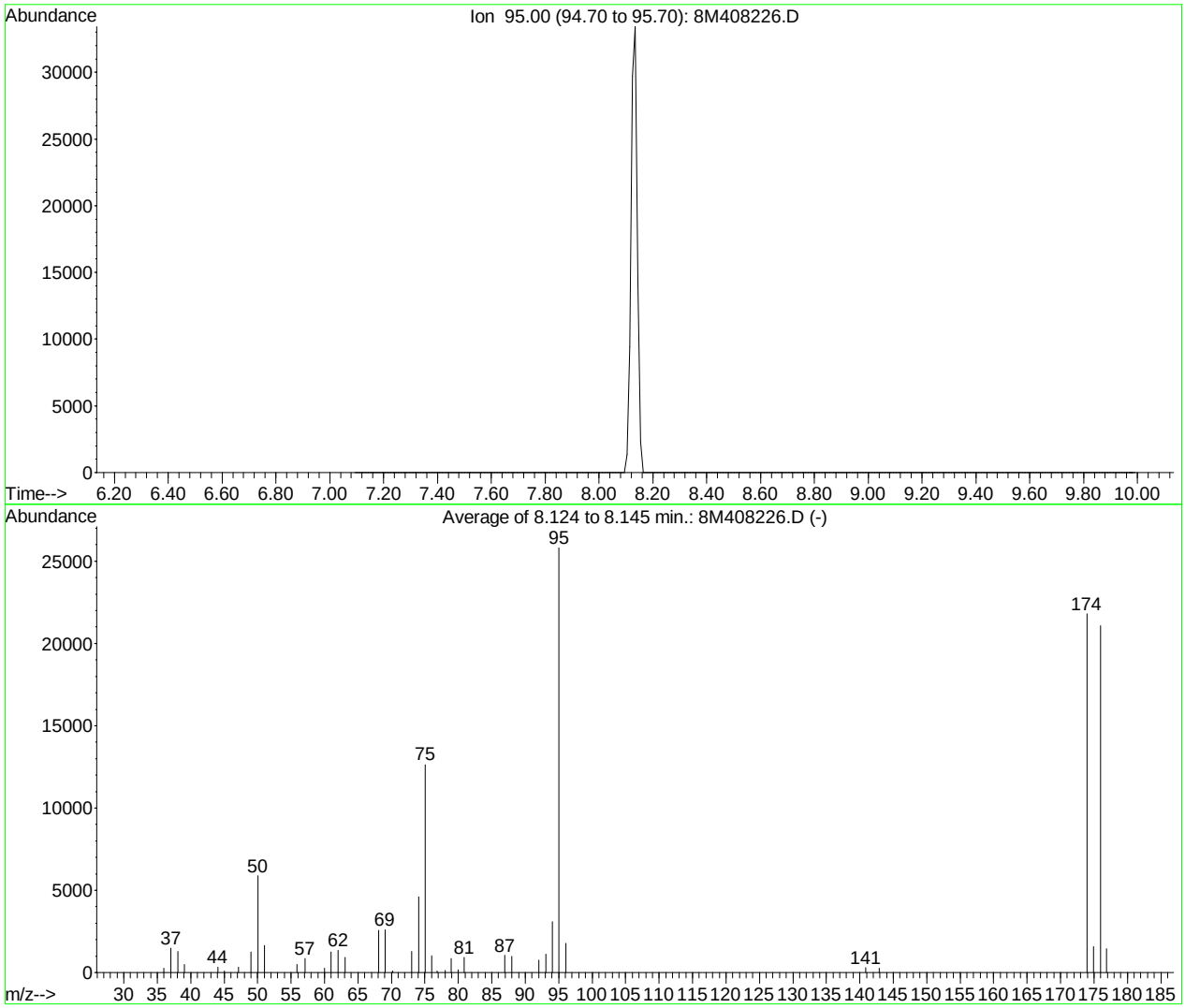
Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
Last Update : Thu Aug 27 16:42:15 2015



AutoFind: Scans 557, 558, 559; Background Corrected with Scan 548

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	8556	PASS
75	95	30	60	48.8	23517	PASS
95	95	100	100	100.0	48144	PASS
96	95	5	9	7.1	3423	PASS
173	174	0.00	2	1.2	531	PASS
174	95	50	100	90.6	43624	PASS
175	174	5	9	7.1	3078	PASS
176	174	95	101	96.9	42293	PASS
177	176	5	9	6.7	2822	PASS

```
Data File : C:\MSDCHEM\2\DATA\102315\8M408226.D          Vial: 2
Acq On    : 23 Oct 2015  10:16                      Operator: TMB
Sample    : WG544055-01 50ng BFB STD 8260           Inst    : HPMS8
Misc      : 1,1 STD72715                            Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\MSDCHEM\2\METHODS\BFB.M (RTE Integrator)
Title     : SOP:OVL MSV01
```



AutoFind: Scans 102, 103, 104; Background Corrected with Scan 97

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	5875	PASS
75	95	30	60	48.9	12632	PASS
95	95	100	100	100.0	25809	PASS
96	95	5	9	6.9	1776	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.4	21792	PASS
175	174	5	9	7.2	1573	PASS
176	174	95	101	96.7	21073	PASS
177	176	5	9	6.9	1451	PASS

8M408226.D BFB.M Fri Oct 23 10:26:41 2015

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015956.D
Acq On : 22 Oct 2015 18:59
Operator : ADC
Sample : WG544006-01 BLK 8260
Misc : 1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 25 12:50:07 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

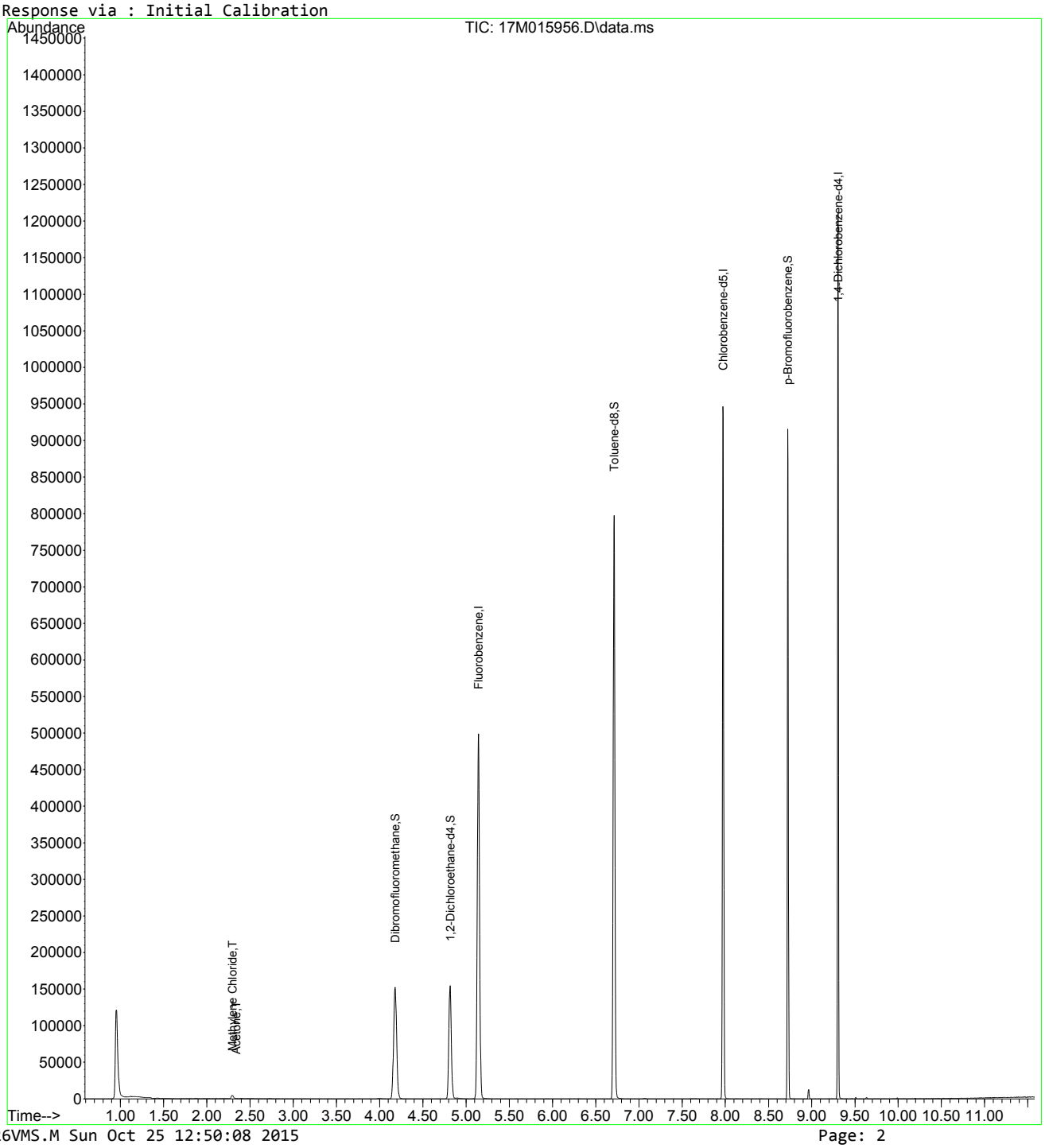
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	436996	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.976	117	320463	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.305	152	161747	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.180	111	117991	26.3355	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 105.342%			
34) 1,2-Dichloroethane-d4	4.817	65	115768	28.3667	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 113.467%			
47) Toluene-d8	6.713	98	434622	26.4452	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 105.781%			
66) p-Bromofluorobenzene	8.723	95	148199	26.4703	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.881%			
Target Compounds						Qvalue
7) Chloroethane	1.444	64	490	Below Cal	#	50
15) Methylene Chloride	2.298	84	2068	0.4202	ug/L #	77
16) Acetone	2.341	43	116	0.1573	ug/L #	39

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

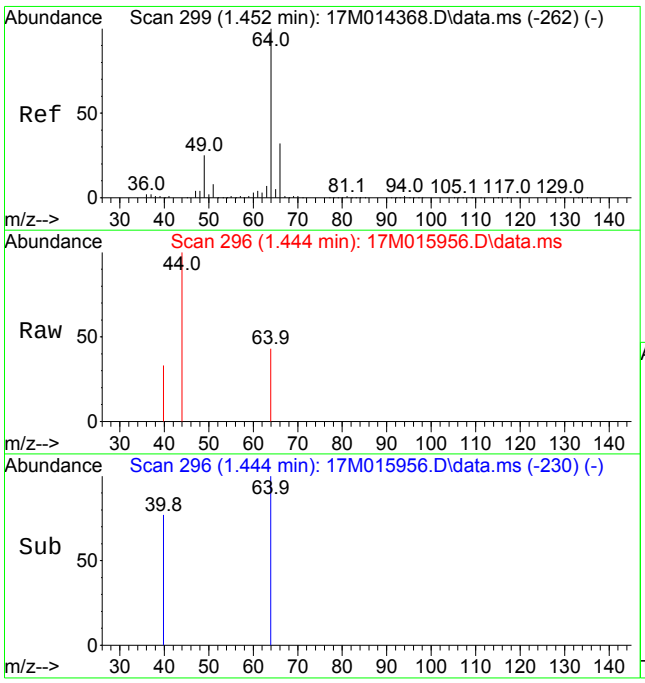
Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015956.D
Acq On : 22 Oct 2015 18:59
Operator : ADC
Sample : WG544006-01 BLK 8260
Misc : 1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 25 12:50:07 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration



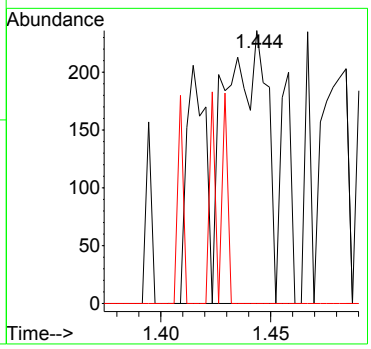
826VMS.M Sun Oct 25 12:50:08 2015 Page: 2

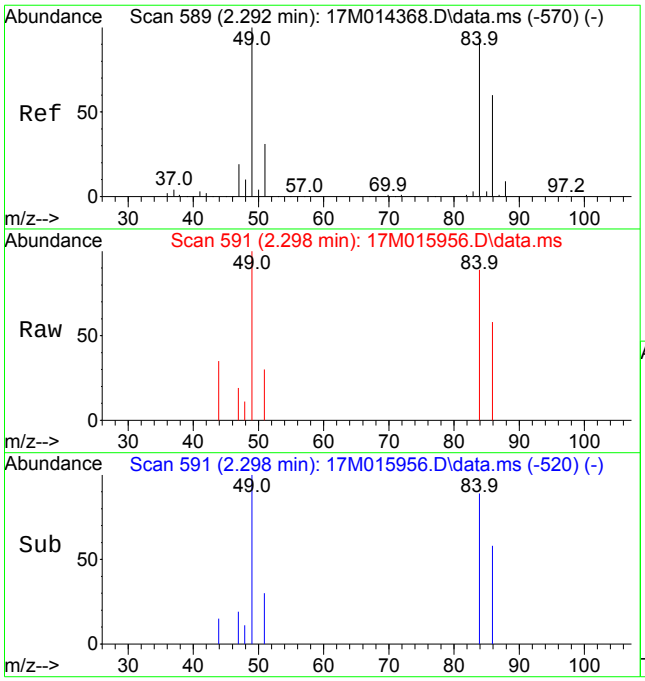


#7
Chloroethane
Concen: Below Cal
RT: 1.444 min Scan# 296
Delta R.T. -0.008 min
Lab File: 17M015956.D
Acq: 22 Oct 2015 18:59

Tgt Ion: 64 Resp: 490

Ion	Ratio	Lower	Upper
64	100		
49	0.0	15.2	35.4#

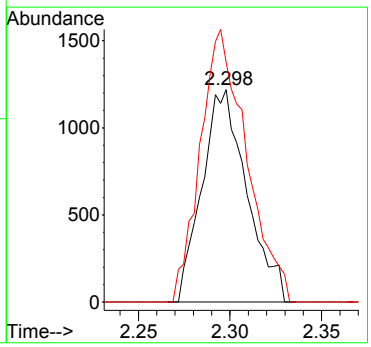


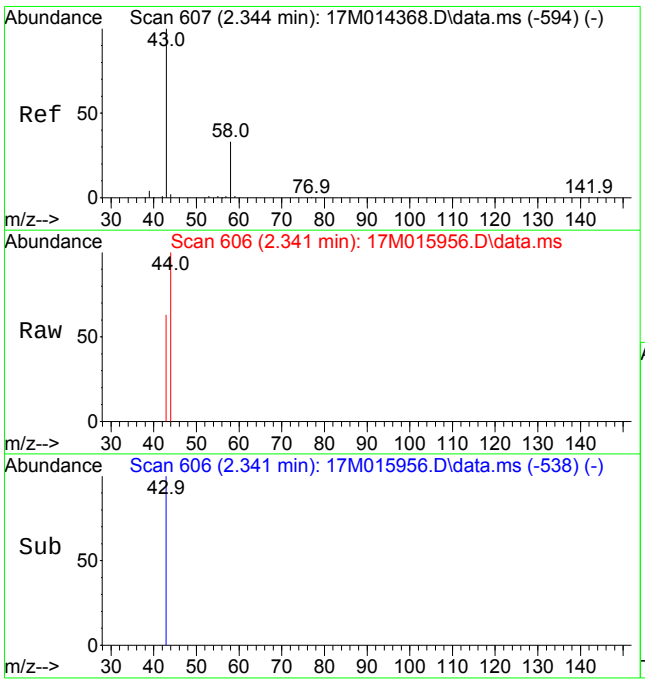


#15
Methylene Chloride
Concen: 0.4202 ug/L
RT: 2.298 min Scan# 591
Delta R.T. 0.006 min
Lab File: 17M015956.D
Acq: 22 Oct 2015 18:59

Tgt Ion: 84 Resp: 2068

Ion	Ratio	Lower	Upper
84	100		
49	132.9	87.0	130.6#

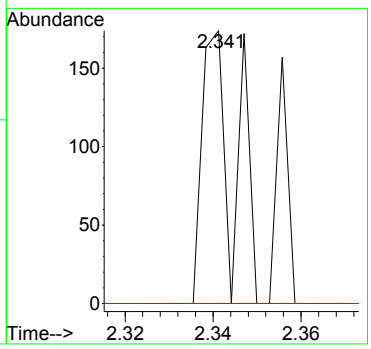




#16
Acetone
Concen: 0.1573 ug/L
RT: 2.341 min Scan# 606
Delta R.T. -0.003 min
Lab File: 17M015956.D
Acq: 22 Oct 2015 18:59

Tgt Ion: 43 Resp: 116

Ion	Ratio	Lower	Upper
43	100		
58	0.0	21.7	50.7#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\102315\8M408229.D Vial: 5
Acq On : 23 Oct 2015 11:39 Operator: TMB
Sample : WG544056-01 VBLK1023 BLANK STD 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 08:49:14 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

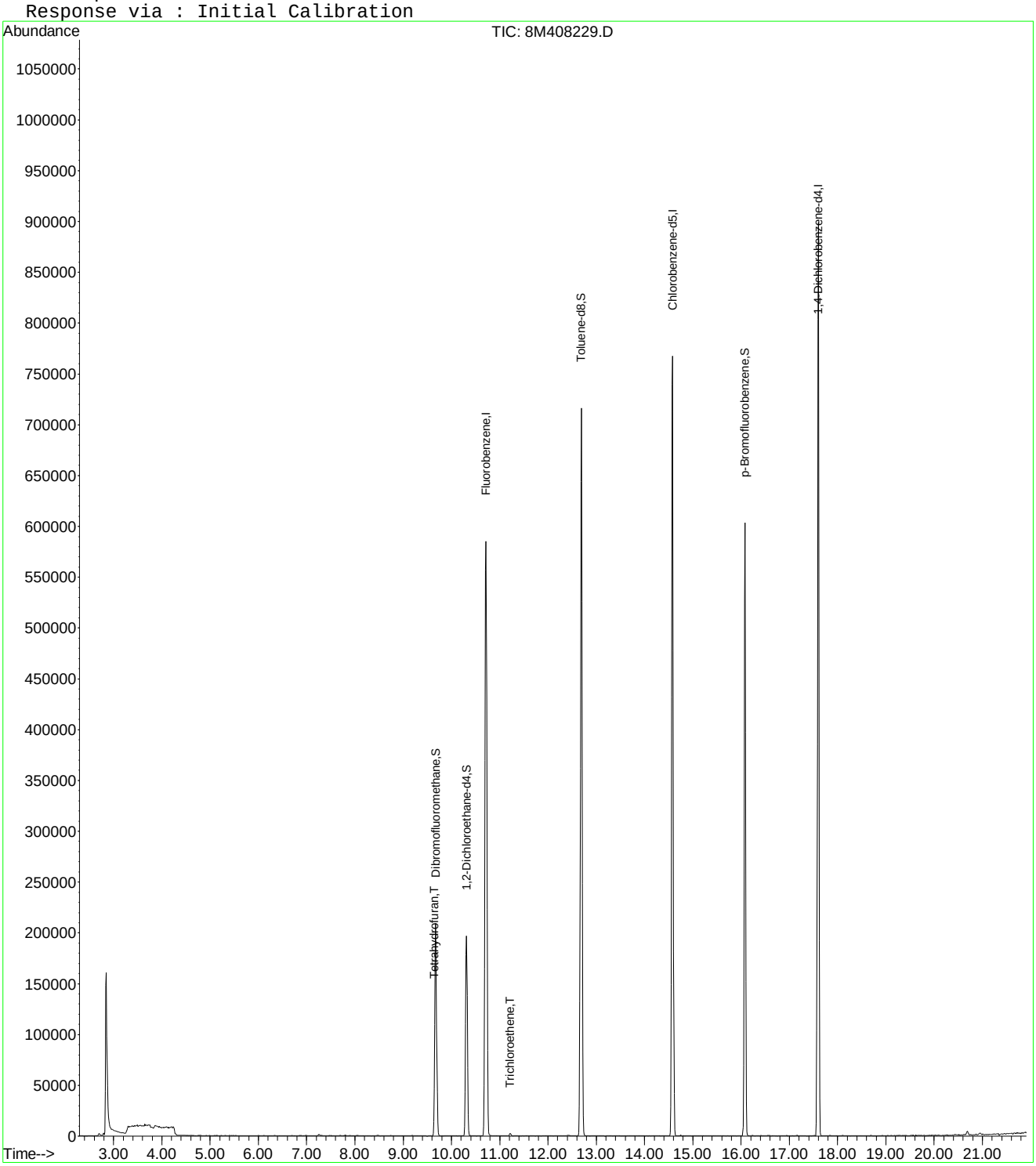
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.72	96	695162	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	534064	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	291679	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	173016	26.1506	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 104.60%			
43) 1,2-Dichloroethane-d4	10.31	65	175279	25.9840	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 103.92%			
58) Toluene-d8	12.69	98	615956	24.8575	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.44%			
80) p-Bromofluorobenzene	16.08	95	254079	24.9657	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.88%			
Target Compounds						Qvalue
36) Tetrahydrofuran	9.65	42	210	0.1800	ug/L #	40
47) Trichloroethene	11.21	130	1103	0.1497	ug/L	92

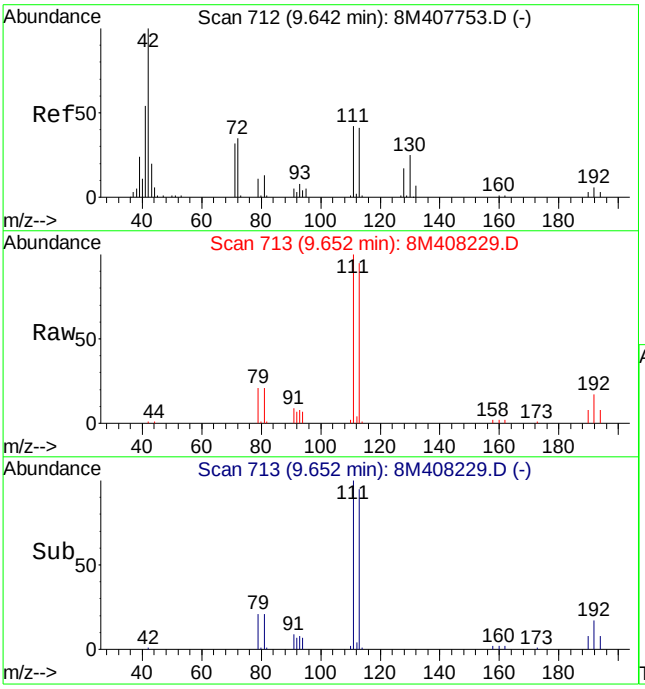
(#) = qualifier out of range (m) = manual integration
8M408229.D 8260WT.M Sat Oct 24 08:49:15 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\102315\8M408229.D Vial: 5
Acq On : 23 Oct 2015 11:39 Operator: TMB
Sample : WG544056-01 VBLK1023 BLANK STD 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:49 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration

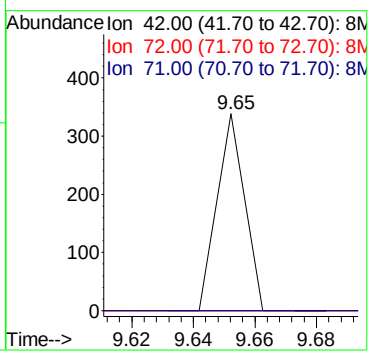


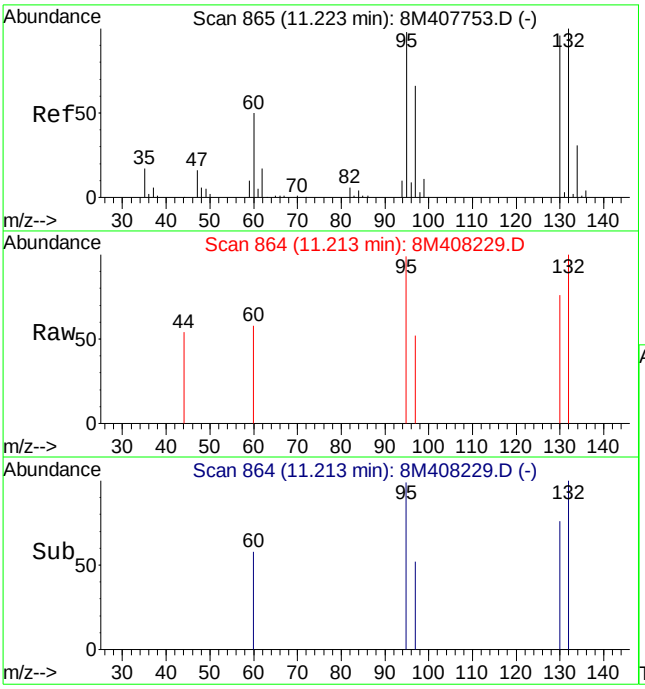


#36
Tetrahydrofuran
Concen: 0.18 ug/L
RT: 9.65 min Scan# 713
Delta R.T. 0.02 min
Lab File: 8M408229.D
Acq: 23 Oct 2015 11:39

Tgt Ion: 42 Resp: 210

Ion	Ratio	Lower	Upper
42	100		
72	0.0	22.4	52.4#
71	0.0	19.5	45.5#

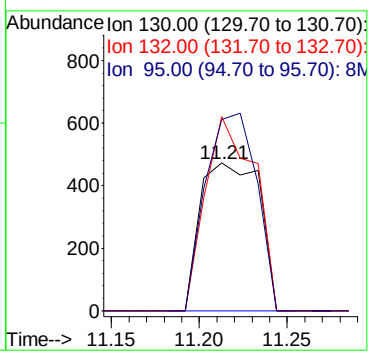




#47
Trichloroethene
Concen: 0.15 ug/L
RT: 11.21 min Scan# 864
Delta R.T. -0.01 min
Lab File: 8M408229.D
Acq: 23 Oct 2015 11:39

Tgt Ion:130 Resp: 1103

Ion	Ratio	Lower	Upper
130	100		
132	109.1	59.0	137.6
95	114.8	65.0	151.8



Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015957.D
Acq On : 22 Oct 2015 19:19
Operator : ADC
Sample : WG544006-02 20ug/L LCS 8260
Misc : 1,1 STD73034
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 22 19:31:19 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.144	96	428887	25.00000	ug/L		0.0000
46) Chlorobenzene-d5	7.976	117	320031	25.00000	ug/L		0.0000
64) 1,4-Dichlorobenzene-d4	9.305	152	174056	25.00000	ug/L		0.0000
System Monitoring Compounds							
29) Dibromofluoromethane	4.180	111	117657	26.7574	ug/L		0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 107.030%				
34) 1,2-Dichloroethane-d4	4.814	65	111325	27.7938	ug/L		0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 111.175%				
47) Toluene-d8	6.713	98	437958	26.6842	ug/L		0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 106.737%				
66) p-Bromofluorobenzene	8.723	95	152261	25.2726	ug/L		0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.090%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.038	85	106668	19.7242	ug/L		99
3) Chloromethane	1.148	50	101822	23.3050	ug/L		100
4) Vinyl Chloride	1.198	62	113220	22.3576	ug/L		100
5) 1,3-Butadiene	1.206	54	30898	7.8586	ug/L		97
6) Bromomethane	1.383	94	48394	17.3497	ug/L		99
7) Chloroethane	1.455	64	54459	22.0203	ug/L		89
8) Trichlorofluoromethane	1.534	101	148198	19.8255	ug/L		100
9) Diethyl ether	1.748	59	349691	109.8755	ug/L		93
10) 1,1-Dichloroethene	1.867	61	132253	20.6759	ug/L		92
11) Carbon Disulfide	1.884	76	91818	6.5578	ug/L		96
12) 1,1,2-Trichloro-1,2,2-...	1.898	101	88883	19.6457	ug/L		97
13) Iodomethane	1.965	142	4093	1.2239	ug/L		97
14) Acrolein	2.113	56	31284	61.2545	ug/L		100
15) Methylene Chloride	2.295	84	96177	19.9095	ug/L		84
16) Acetone	2.347	43	20332	28.0930	ug/L		92
17) trans-1,2-Dichloroethene	2.420	96	87393	19.0487	ug/L		89
18) Methyl acetate	2.448	43	62866	23.4394	ug/L	#	90
19) Methyl Tert Butyl Ether	2.530	73	230583	20.6528	ug/L		97
20) 1,1-Dichloroethane	2.978	63	171554	21.6336	ug/L		99
21) Acrylonitrile	3.039	53	20622	20.6740	ug/L		99
22) Vinyl Acetate	3.282	86	5057	17.8727	ug/L	#	54
23) cis-1,2-Dichloroethene	3.569	96	96733	18.5541	ug/L		89
24) 2,2-Dichloropropane	3.699	77	99008	14.8566	ug/L		89
25) Cyclohexane	3.798	56	154828	21.2696	ug/L		92
26) Bromochloromethane	3.809	130	64781	19.7615	ug/L		99
27) Chloroform	3.940	83	173512	20.3903	ug/L		99
28) Carbon Tetrachloride	4.079	117	132950	19.3762	ug/L		99
30) 1,1,1-Trichloroethane	4.177	97	149833	19.6072	ug/L		97
31) 1,1-Dichloropropene	4.345	75	117070	19.2444	ug/L		96
32) 2-Butanone	4.368	43	28658	24.2769	ug/L	#	86
33) Benzene	4.649	78	376583	20.5610	ug/L		97
35) 1,2-Dichloroethane	4.892	62	111049	20.3042	ug/L		96
36) Methylcyclohexane	5.297	83	155356	18.7989	ug/L		94
37) Trichloroethene	5.324	130	108370	19.6111	ug/L		93
38) Dibromomethane	5.743	93	54805	20.2541	ug/L		99
39) 1,2-Dichloropropane	5.850	63	101868	21.7668	ug/L		96
40) Bromodichloromethane	5.940	83	123480	19.5329	ug/L		100
41) 1,4-Dioxane	6.160	88	3370	94.4274	ug/L		95
42) 2-Chloroethyl Vinyl Ether	6.528	63	45250	21.2835	ug/L		100
43) cis-1,3-Dichloropropene	6.545	75	142073	19.6859	ug/L		96
44) 4-Methyl-2-Pentanone	7.816	58	21707	20.1019	ug/L		93
45) trans-1,3-Dichloropropene	7.145	75	110617	17.9654	ug/L		99
48) Toluene	6.757	91	411775	18.8188	ug/L		98
49) Tetrachloroethene	7.087	166	109876	18.2776	ug/L		98

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015957.D
Acq On : 22 Oct 2015 19:19
Operator : ADC
Sample : WG544006-02 20ug/L LCS 8260
Misc : 1,1 STD73034
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 22 19:31:19 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

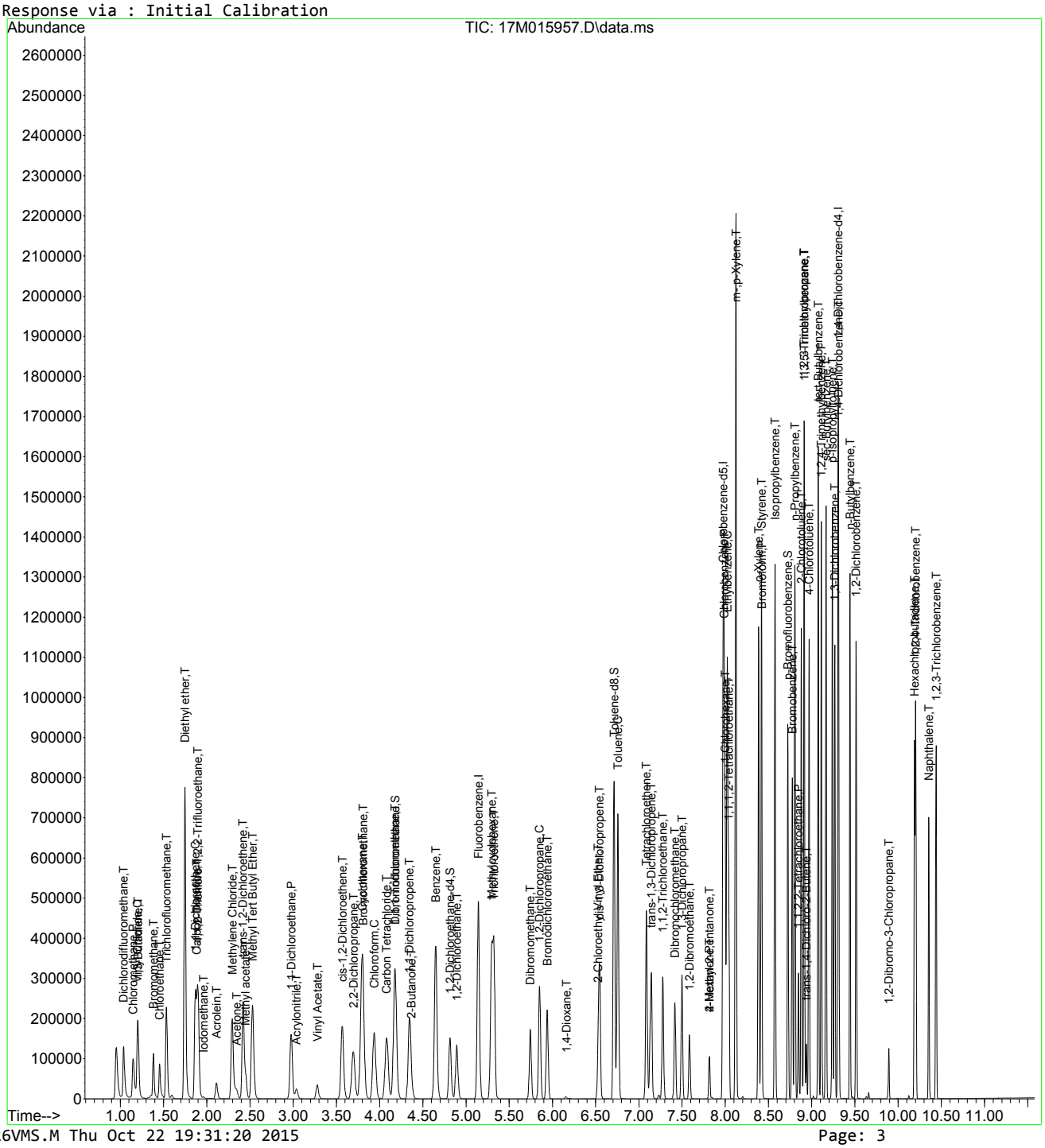
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,1,2-Trichloroethane	7.275	97	73297	18.9380	ug/L		97
51) Dibromochloromethane	7.417	129	94613	18.5414	ug/L		100
52) 1,3-Dichloropropane	7.498	76	121951	20.2624	ug/L		93
53) 1,2-Dibromoethane	7.585	107	72895	18.6253	ug/L		99
54) 2-Hexanone	7.816	43	43237	22.0394	ug/L		92
55) Chlorobenzene	7.987	112	279241	20.2895	ug/L		97
56) 1-Chlorohexane	7.999	69	24777	19.9030	ug/L		96
57) Ethylbenzene	8.022	106	143440	19.4122	ug/L		97
58) 1,1,1,2-Tetrachloroethane	8.039	131	96021	18.5429	ug/L		98
59) m-,p-Xylene	8.123	106	354291	40.3850	ug/L		98
60) o-Xylene	8.384	106	174012	19.7334	ug/L		99
61) Styrene	8.419	104	274187	19.2380	ug/L		99
62) Bromoform	8.422	173	65567	19.1021	ug/L		99
63) Isopropylbenzene	8.575	105	457260	20.0724	ug/L		99
65) 1,3,5-Trimethylbenzene	8.914	105	392272	19.1841	ug/L		99
67) Bromobenzene	8.775	156	120036	17.3103	ug/L		96
68) n-Propylbenzene	8.804	91	529227	20.3418	ug/L		97
69) 1,1,2,2-Tetrachloroethane	8.847	83	79960	17.2335	ug/L		100
70) 2-Chlorotoluene	8.879	91	323558	19.8195	ug/L		98
71) 1,2,3-Trichloropropane	8.911	110	23782	18.5465	ug/L		95
72) trans-1,4-Dichloro-2-B...	8.937	53	12476	14.6185	ug/L	#	89
73) 1,2,4-Trimethylbenzene	9.111	105	384833	18.9498	ug/L		100
74) 4-Chlorotoluene	8.969	91	317690	19.4241	ug/L		99
75) tert-Butylbenzene	9.076	134	76094	18.9116	ug/L		98
76) sec-Butylbenzene	9.166	105	505327	20.2377	ug/L		98
77) p-Isopropyltoluene	9.238	119	402307	18.5912	ug/L		99
78) 1,3-Dichlorobenzene	9.267	146	230119	19.2066	ug/L		100
79) 1,4-Dichlorobenzene	9.310	146	223106	18.3448	ug/L		100
80) n-Butylbenzene	9.444	91	353576	19.3373	ug/L		95
81) 1,2-Dichlorobenzene	9.513	146	227374	19.2880	ug/L		99
82) 1,2-Dibromo-3-Chloropr...	9.892	75	14599	17.7881	ug/L		90
83) Hexachlorobutadiene	10.188	225	86547	16.3755	ug/L		100
84) 1,2,4-Trichlorobenzene	10.202	180	151935	17.4312	ug/L		99
85) Naphthalene	10.356	128	263010	15.9738	ug/L		100
86) 1,2,3-Trichlorobenzene	10.440	180	138884	16.7461	ug/L		99

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015957.D
Acq On : 22 Oct 2015 19:19
Operator : ADC
Sample : WG544006-02 20ug/L LCS 8260
Misc : 1,1 STD73034
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 22 19:31:19 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration



826VMS.M Thu Oct 22 19:31:20 2015 Page: 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\102315\8M408230.D Vial: 6
Acq On : 23 Oct 2015 12:09 Operator: TMB
Sample : WG544056-02 20ug/L LCS STD 8260 Inst : HPMS8
Misc : 1,1 STD73015 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 12:31:33 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	724346	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.57	117	555297	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	318730	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.68	111	176567	25.6121	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 102.44%			
43) 1,2-Dichloroethane-d4	10.31	65	178267	25.3622	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 101.44%			
58) Toluene-d8	12.68	98	639130	24.8065	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.24%			
80) p-Bromofluorobenzene	16.07	95	266613	23.9739	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 95.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	194288	17.6430	ug/L	99
3) Chloromethane	3.62	50	333455	19.8445	ug/L	99
4) Vinyl Chloride	3.85	62	251497	18.9402	ug/L	99
5) 1,3-Butadiene	3.89	54	54076	2.9465	ug/L	93
6) Bromomethane	4.74	94	87902	20.2197	ug/L	100
7) Chloroethane	4.90	64	121744	22.4735	ug/L	97
8) Trichlorofluoromethane	5.39	101	266789	20.7880	ug/L	99
9) Diethyl ether	5.91	59	542403	109.8077	ug/L	100
10) Isoprene	5.94	67	230671	24.4820	ug/L	96
11) Acrolein	6.15	56	35059	57.1899	ug/L	93
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	153713	22.2815	ug/L	97
13) Acetone	6.25	43	26283	24.4466	ug/L	99
14) 1,1-Dichloroethene	6.47	61	248862	21.1917	ug/L	99
15) Tert-Butyl Alcohol	6.60	59	72711	228.8858	ug/L	98
16) Dimethyl Sulfide	6.74	62	167456	24.8454	ug/L	100
17) Iodomethane	6.99	142	88639	20.8688	ug/L	91
18) Methyl acetate	7.01	43	88852	21.8547	ug/L	99
19) Methylene Chloride	7.26	84	151475	20.7687	ug/L	97
20) Carbon Disulfide	7.30	76	436740	18.3391	ug/L	99
21) Acrylonitrile	7.44	53	37545	23.2625	ug/L	98
22) Methyl Tert Butyl Ether	7.47	73	326440	23.6110	ug/L	98
23) trans-1,2-Dichloroethene	7.71	61	240702	21.5837	ug/L	100
24) n-Hexane	7.79	57	211207	19.1716	ug/L	94
25) Diisopropyl ether	8.14	45	3002402	109.2138	ug/L	100
26) Vinyl Acetate	8.30	43	176502	24.1573	ug/L	98
27) 1,1-Dichloroethane	8.33	63	307260	21.6966	ug/L	99
28) Ethyl-Tert-Butyl ether	8.70	59	2277544	105.1817	ug/L	97
29) 2-Butanone	8.89	43	42136	22.7482	ug/L	96
30) Propionitrile	8.99	54	58269	107.2130	ug/L	99
31) 2,2-Dichloropropane	9.11	77	254180	21.4764	ug/L	100
32) cis-1,2-Dichloroethene	9.17	96	170054	21.3718	ug/L	100
33) Chloroform	9.39	83	301419	22.4066	ug/L	100
34) 1-Bromopropane	9.52	122	34554	26.4453	ug/L	99
35) Bromochloromethane	9.61	130	88790	22.6678	ug/L	96
36) Tetrahydrofuran	9.63	42	132245	108.7649	ug/L	98
38) 1,1,1-Trichloroethane	9.91	97	268762	22.2574	ug/L	98
39) Cyclohexane	9.94	56	301116	20.9555	ug/L	99
40) 1,1-Dichloropropene	10.11	75	219541	21.1165	ug/L	98
41) Tert-Amyl-Methyl ether	10.21	73	1757752	109.4846	ug/L	98
42) Carbon Tetrachloride	10.25	117	239388	22.1825	ug/L	99

(#) = qualifier out of range (m) = manual integration
8M408230.D 8260WT.M Fri Oct 23 12:31:33 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\102315\8M408230.D Vial: 6
Acq On : 23 Oct 2015 12:09 Operator: TMB
Sample : WG544056-02 20ug/L LCS STD 8260 Inst : HPMS8
Misc : 1,1 STD73015 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 12:31:33 2015 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration
DataAcq Meth : 8260WT

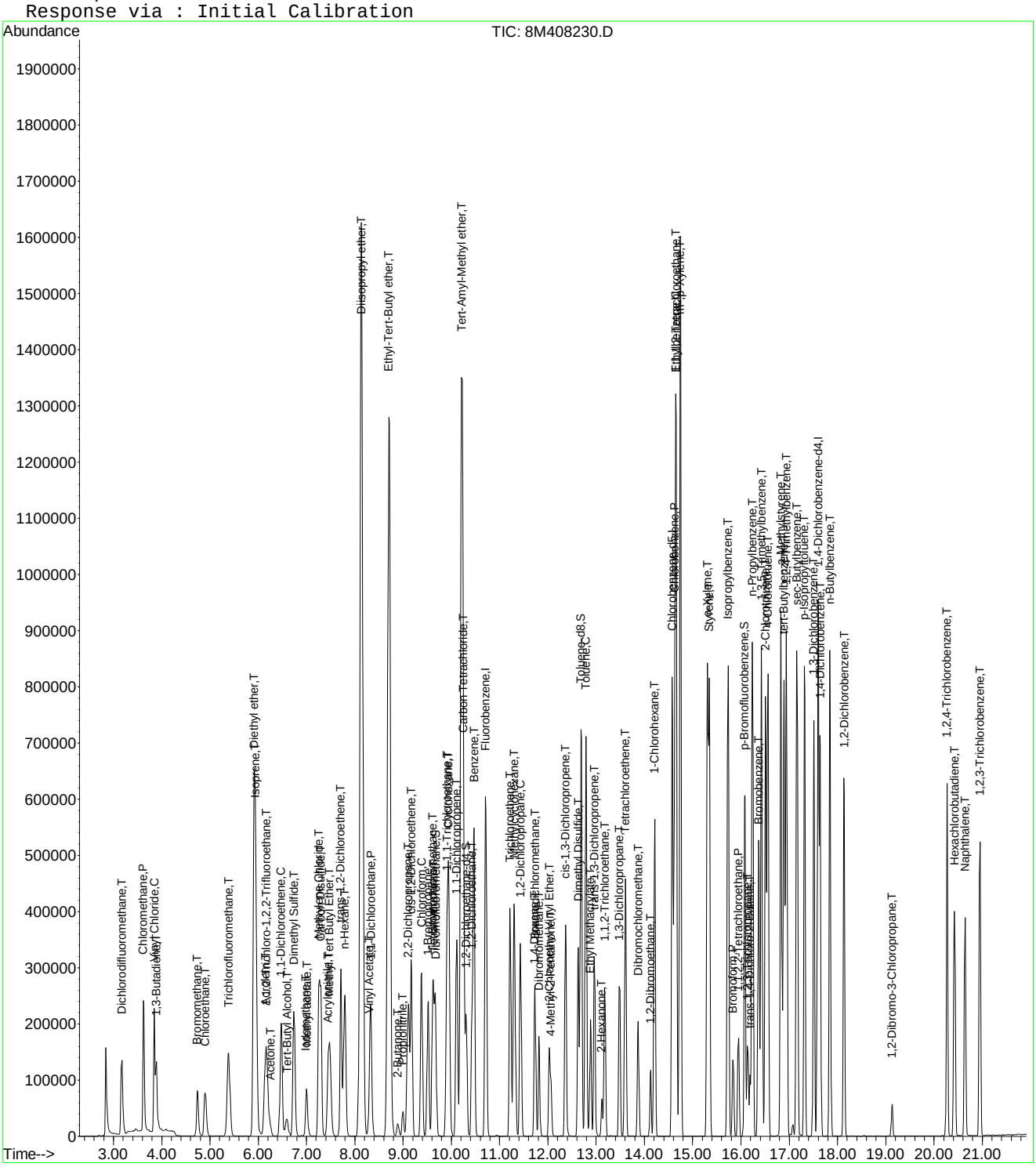
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	200871	21.7448	ug/L		98
46)	Benzene	10.47	78	630735	22.1097	ug/L		99
47)	Trichloroethene	11.22	130	164991	21.4838	ug/L		96
48)	Methylcyclohexane	11.30	83	249270	20.9771	ug/L		98
49)	1,2-Dichloropropane	11.43	63	165137	21.4875	ug/L		97
50)	Bromodichloromethane	11.73	83	211878	21.3593	ug/L		99
51)	1,4-Dioxane	11.72	88	7156	202.2504	ug/L		88
52)	Dibromomethane	11.81	93	79447	21.7095	ug/L		96
53)	2-Chloroethyl Vinyl Ether	12.03	63	73125	23.0851	ug/L		99
54)	4-Methyl-2-Pentanone	12.06	58	33776	20.7853	ug/L		97
55)	cis-1,3-Dichloropropene	12.36	75	248446	22.5617	ug/L		99
56)	Dimethyl Disulfide	12.63	79	120694	20.3264	ug/L		93
59)	Toluene	12.79	91	656302	20.7993	ug/L		98
60)	Ethyl Methacrylate	12.88	69	137326	21.8292	ug/L		97
62)	trans-1,3-Dichloropropene	12.96	75	191954	19.8291	ug/L		100
63)	1,1,2-Trichloroethane	13.18	97	101783	20.3229	ug/L		99
64)	2-Hexanone	13.12	58	30592	19.4284	ug/L	#	90
65)	1,3-Dichloropropane	13.48	76	183463	20.4985	ug/L		95
66)	Tetrachloroethene	13.60	164	140615	20.9624	ug/L		96
67)	Dibromochloromethane	13.87	129	134072	20.7053	ug/L		99
68)	1,2-Dibromoethane	14.13	107	98931	19.7856	ug/L		97
69)	1-Chlorohexane	14.21	91	226396	20.0511	ug/L		99
70)	Chlorobenzene	14.63	112	441770	20.8942	ug/L		100
71)	1,1,1,2-Tetrachloroethane	14.66	131	154634	19.7799	ug/L		97
72)	Ethylbenzene	14.66	106	241137	19.5780	ug/L		95
73)	m-,p-Xylene	14.74	106	595696	42.1736	ug/L		99
74)	o-Xylene	15.31	106	294993	20.6524	ug/L		97
75)	Styrene	15.34	104	471230	20.8225	ug/L		99
76)	Bromoform	15.84	173	83677	21.4960	ug/L		98
77)	Isopropylbenzene	15.73	105	762118	22.2425	ug/L		100
79)	1,1,2,2-Tetrachloroethane	15.95	83	114439	19.4611	ug/L		100
81)	1,2,3-Trichloropropane	16.14	110	32398	19.8271	ug/L		49
82)	trans-1,4-Dichloro-2-Buten	16.19	53	36084	16.6986	ug/L	#	61
83)	n-Propylbenzene	16.24	91	940046	20.3708	ug/L		100
84)	Bromobenzene	16.37	156	183658	19.6059	ug/L		99
85)	1,3,5-Trimethylbenzene	16.42	105	647217	20.3994	ug/L		99
86)	2-Chlorotoluene	16.51	91	570717	18.6721	ug/L		91
87)	4-Chlorotoluene	16.56	91	602848	22.8060	ug/L		92
88)	a-Methylstyrene	16.83	118	363818	21.0344	ug/L		99
89)	tert-Butylbenzene	16.89	134	140829	20.1770	ug/L		90
90)	1,2,4-Trimethylbenzene	16.94	105	656667	20.4820	ug/L		99
91)	sec-Butylbenzene	17.16	105	829358	21.0429	ug/L		98
92)	p-Isopropyltoluene	17.31	119	653109	20.7258	ug/L		97
93)	1,3-Dichlorobenzene	17.51	146	381179	20.3866	ug/L		97
94)	1,4-Dichlorobenzene	17.64	146	364513	19.5773	ug/L		98
95)	n-Butylbenzene	17.84	91	652867	22.2250	ug/L		97
96)	1,2-Dichlorobenzene	18.14	146	343902	21.0203	ug/L		97
97)	1,2-Dibromo-3-Chloropropan	19.13	75	19807	19.2208	ug/L		96
98)	1,2,4-Trichlorobenzene	20.27	180	244878	21.7861	ug/L		99
99)	Hexachlorobutadiene	20.42	225	112813	20.9839	ug/L		99
100)	Naphthalene	20.64	128	372632	22.9308	ug/L		99
101)	1,2,3-Trichlorobenzene	20.95	180	210281	21.9385	ug/L		97

(#) = qualifier out of range (m) = manual integration
8M408230.D 8260WT.M Fri Oct 23 12:31:33 2015 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\102315\8M408230.D Vial: 6
Acq On : 23 Oct 2015 12:09 Operator: TMB
Sample : WG544056-02 20ug/L LCS STD 8260 Inst : HPMS8
Misc : 1,1 STD73015 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 12:31 2015 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 09-30-15 HPMS 8
Last Update : Fri Oct 16 10:20:27 2015
Response via : Initial Calibration



8M408230.D 8260WT.M Fri Oct 23 12:31:33 2015 Page 3

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015958.D
Acq On : 22 Oct 2015 19:39
Operator : ADC
Sample : WG544006-03 20ug/L LCSDUP 8260
Misc : 1,1 STD73034
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 22 19:51:03 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.144	96	428940	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.976	117	318508	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.305	152	172114	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	4.180	111	117028	26.6111	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 106.444%			
34) 1,2-Dichloroethane-d4	4.814	65	111657	27.8733	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 111.493%			
47) Toluene-d8	6.713	98	435249	26.6460	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 106.584%			
66) p-Bromofluorobenzene	8.723	95	152569	25.6094	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.438%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.039	85	105587	19.5219	ug/L	99
3) Chloromethane	1.149	50	101609	23.2533	ug/L	99
4) Vinyl Chloride	1.198	62	115264	22.7584	ug/L	99
5) 1,3-Butadiene	1.206	54	30982	7.8790	ug/L	97
6) Bromomethane	1.383	94	54564	19.5592	ug/L	98
7) Chloroethane	1.456	64	53678	21.6817	ug/L	90
8) Trichlorofluoromethane	1.534	101	147946	19.7894	ug/L	99
9) Diethyl ether	1.748	59	352100	110.6188	ug/L	93
10) 1,1-Dichloroethene	1.867	61	131534	20.5609	ug/L	92
11) Carbon Disulfide	1.881	76	97480	6.9613	ug/L	95
12) 1,1,2-Trichloro-1,2,2-...	1.898	101	90891	20.0871	ug/L	96
13) Iodomethane	1.965	142	4039	1.2171	ug/L	97
14) Acrolein	2.113	56	35198	68.9096	ug/L	99
15) Methylene Chloride	2.292	84	94658	19.5927	ug/L	83
16) Acetone	2.344	43	19028	26.2880	ug/L	91
17) trans-1,2-Dichloroethene	2.420	96	85983	18.7390	ug/L	87
18) Methyl acetate	2.449	43	63604	23.7117	ug/L #	94
19) Methyl Tert Butyl Ether	2.530	73	232449	20.8173	ug/L	97
20) 1,1-Dichloroethane	2.978	63	170043	21.4404	ug/L	99
21) Acrylonitrile	3.042	53	20737	20.7867	ug/L	99
22) Vinyl Acetate	3.277	86	7064	24.9629	ug/L #	56
23) cis-1,2-Dichloroethene	3.566	96	97176	18.6368	ug/L	90
24) 2,2-Dichloropropane	3.694	77	132270	19.8452	ug/L	91
25) Cyclohexane	3.795	56	156199	21.4553	ug/L	92
26) Bromochloromethane	3.809	130	65121	19.8628	ug/L	98
27) Chloroform	3.937	83	171750	20.1808	ug/L	98
28) Carbon Tetrachloride	4.084	117	134207	19.5570	ug/L	99
30) 1,1,1-Trichloroethane	4.177	97	151241	19.7890	ug/L	98
31) 1,1-Dichloropropene	4.345	75	119045	19.5666	ug/L	95
32) 2-Butanone	4.374	43	28985	24.5509	ug/L #	87
33) Benzene	4.649	78	371280	20.2690	ug/L	97
35) 1,2-Dichloroethane	4.892	62	109780	20.0697	ug/L	95
36) Methylcyclohexane	5.298	83	159876	19.3434	ug/L	95
37) Trichloroethene	5.324	130	103916	18.8027	ug/L	93
38) Dibromomethane	5.744	93	54463	20.1252	ug/L	99
39) 1,2-Dichloropropane	5.851	63	102006	21.7935	ug/L	96
40) Bromodichloromethane	5.937	83	123412	19.5198	ug/L	100
41) 1,4-Dioxane	6.158	88	3775	105.7624	ug/L	94
42) 2-Chloroethyl Vinyl Ether	6.528	63	45863	21.5692	ug/L	100
43) cis-1,3-Dichloropropene	6.546	75	149594	20.7254	ug/L	97
44) 4-Methyl-2-Pentanone	7.814	58	22537	20.8679	ug/L	94
45) trans-1,3-Dichloropropene	7.145	75	116191	18.8684	ug/L	99
48) Toluene	6.757	91	412215	18.9290	ug/L	99
49) Tetrachloroethene	7.087	166	110834	18.5252	ug/L	98

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015958.D
Acq On : 22 Oct 2015 19:39
Operator : ADC
Sample : WG544006-03 20ug/L LCSDUP 8260
Misc : 1,1 STD73034
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 22 19:51:03 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration

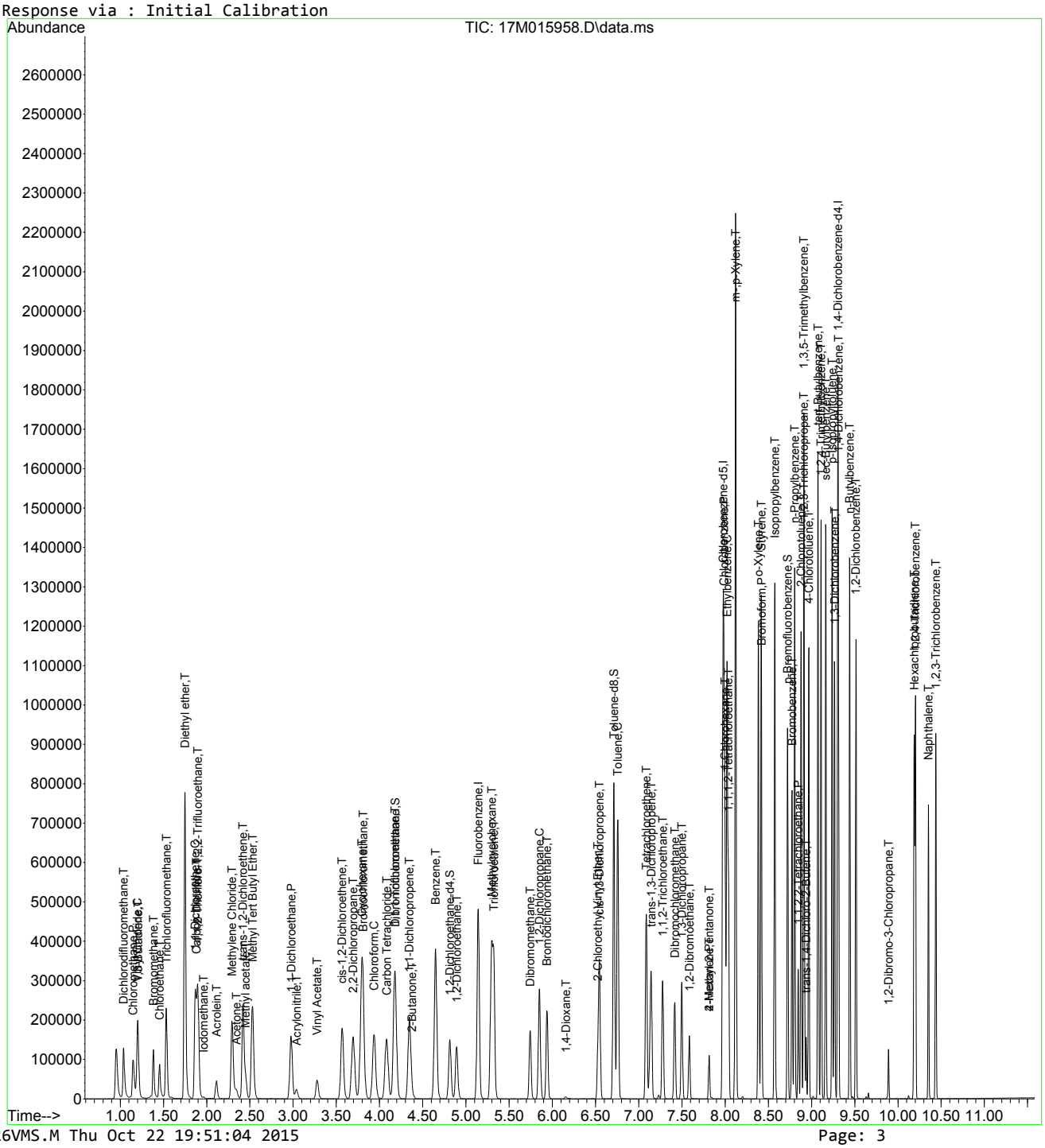
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,1,2-Trichloroethane	7.278	97	73629	19.1147	ug/L		98
51) Dibromochloromethane	7.417	129	94480	18.6039	ug/L		100
52) 1,3-Dichloropropane	7.498	76	121807	20.3352	ug/L		93
53) 1,2-Dibromoethane	7.585	107	72742	18.6751	ug/L		100
54) 2-Hexanone	7.814	43	44841	22.9663	ug/L		92
55) Chlorobenzene	7.984	112	278558	20.3366	ug/L		97
56) 1-Chlorohexane	7.999	69	25344	20.4558	ug/L		92
57) Ethylbenzene	8.022	106	143184	19.4702	ug/L		95
58) 1,1,1,2-Tetrachloroethane	8.037	131	95684	18.5662	ug/L		98
59) m-,p-Xylene	8.121	106	354424	40.5934	ug/L		98
60) o-Xylene	8.384	106	173516	19.7712	ug/L		98
61) Styrene	8.419	104	274366	19.3427	ug/L		100
62) Bromoform	8.422	173	65884	19.2862	ug/L		99
63) Isopropylbenzene	8.575	105	457365	20.1730	ug/L		99
65) 1,3,5-Trimethylbenzene	8.911	105	393448	19.4587	ug/L		99
67) Bromobenzene	8.775	156	119635	17.4471	ug/L		96
68) n-Propylbenzene	8.804	91	533228	20.7269	ug/L		97
69) 1,1,2,2-Tetrachloroethane	8.844	83	85885	18.7194	ug/L		100
70) 2-Chlorotoluene	8.879	91	323284	20.0262	ug/L		98
71) 1,2,3-Trichloropropane	8.908	110	23621	18.6287	ug/L		93
72) trans-1,4-Dichloro-2-B...	8.937	53	13755	16.2990	ug/L	#	92
73) 1,2,4-Trimethylbenzene	9.111	105	388062	19.3244	ug/L		99
74) 4-Chlorotoluene	8.969	91	327225	20.2328	ug/L		99
75) tert-Butylbenzene	9.076	134	76515	19.2308	ug/L		97
76) sec-Butylbenzene	9.163	105	508306	20.5867	ug/L		98
77) p-Isopropyltoluene	9.238	119	410307	19.1748	ug/L		99
78) 1,3-Dichlorobenzene	9.267	146	233868	19.7397	ug/L		100
79) 1,4-Dichlorobenzene	9.311	146	226110	18.8016	ug/L		100
80) n-Butylbenzene	9.441	91	368370	20.3737	ug/L		96
81) 1,2-Dichlorobenzene	9.513	146	227553	19.5209	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.890	75	14873	18.3265	ug/L		89
83) Hexachlorobutadiene	10.188	225	91371	17.4834	ug/L		99
84) 1,2,4-Trichlorobenzene	10.202	180	156719	18.1829	ug/L		99
85) Naphthalene	10.353	128	267366	16.4216	ug/L		100
86) 1,2,3-Trichlorobenzene	10.437	180	142407	17.3647	ug/L		99

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

Quantitation Report (Not Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\102215\
Data File : 17M015958.D
Acq On : 22 Oct 2015 19:39
Operator : ADC
Sample : WG544006-03 20ug/L LCSDUP 8260
Misc : 1,1 STD73034
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 22 19:51:03 2015
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 08/12/15 HPMS17
QLast Update : Thu Aug 27 16:42:15 2015
Response via : Initial Calibration



3.0 Attachments

Microbac Laboratories Inc.
Ohio Valley Division Analyst List
October 29, 2015

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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	AC – AMBER R. CARMICHAEL
ADC – ANTHONY D. CANTER	ADG – APRIL D. GREENE
AED – ALLEN E. DAVIS	ALS – ADRIANE L. STEED
AWE – ANDREW W. ESSIG	AZH – AFTER HOURS
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. KETELSEN
DCM – DAVID C. MERCKLE	DEV – DAVID E. VANDENBERG
DIH – DEANNA I. HESSON	DLB – DAVID L. BUMGARNER
DLP – DOROTHY L. PAYNE	DLW – DIANA L. WRIGHT
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. STE MARIE
JKP – JACQUELINE K. PARSONS	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
KAT – KATHY A. TUCKER	KDW – KATHRYN D. WELCH
KEB – KATIE E. BARNES	KHR – KIM H. RHODES
KKB – KERRI K. BUCK	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
PRL – PAIGE R. LAMB	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
RST – ROBIN S. TURNER	SAV – SARAH A. VANDENBERG
SCB – SARAH C. BOGOLIN	SDC – SHALYN D. CONLEY
SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF
TB – TODD BOYLE	TGF – TIM G. FELTON
TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
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
October 29, 2015

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
FP1	Did not ignite.
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, S	Not detected; analyzed by method of standard addition (MSA)
ND,L	Not detected; sample reporting limit (RL) elevated due to interference
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

L15101278 / Revision: 0 / 458 total pages

leidos

301 Laboratory Road, Oak Ridge, Tennessee 37831(865) 482-9031

CHAIN OF CUSTODY RECORD

COC NO.: 1

PROJECT NAME: Gabreski ANG Base

PROJECT NUMBER: 206789.00.0198.8002.03.354

PROJECT MANAGER: Mike Poligone

Sampler (Signature) (Printed Name): Zach Steele

LABORATORY NAME: Microbac Laboratories, Inc. Ohio Valley Division

LABORATORY ADDRESS: 158 Starlite Drive Marietta, OH 45750

PHONE NO: 800-373-4071

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	No. of Bottles/ Vials: VOC 1	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
SW0719	10-21-15	1030	GW	3		
MW04GW0113	10-20-15	1740		3		
MW04GW0215	10-20-15	1555		3		
MW04GW0314	10-20-15	1650		3		
MW04GW04R05	10-20-15	1445		3		
MW04GW0512	10-21-15	1335		3		
PZ408	10-20-15	1335		3		1335 sample time
SDW23AR04	10-21-15	1235		3		1235 sample time
SW0621D	10-20-15	1225		3		Duplicate 1225
SW0621	10-20-15	1225		3		
SW0621MS	10-20-15	1225		3		Matrix Spike
SW0621MSD	10-20-15	1225		3		Matrix Spike Dup
ER035	10-21-15	1500		3		

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 39	Cooler Temperature:
	10-21-15			Cooler ID:	FEDEX NUMBER: 8081 0265 1782
COMPANY NAME: Leidos	1800	COMPANY NAME:			
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time	**Standard 5-DAY TAT**	
C				1 3 - 40 ml Glass Vials, HCL to pH < 2, 4C	
R			Date/Time		
C					

Microbac OVD
Received: 10/22/2015 10:10
By: BRENDA GREENWALT 221000077212

Brenda Greenwalt

Generated: 10/29/2015 15:07

L15101278 / Revision: 0 / 458 total pages

leidos

301 Laboratory Road, Oak Ridge, Tennessee 37831(865) 482-9031

CHAIN OF CUSTODY RECORD

COC NO.: 2

PROJECT NAME: Gabreski ANG Base

PROJECT NUMBER: 206789.00.0198.8002.03.354

PROJECT MANAGER: Mike Poligone

Sampler (Signature) (Printed Name) Zach Steele

LABORATORY NAME: Microbac Laboratories, Inc. Ohio Valley Division

LABORATORY ADDRESS: 158 Starlite Drive Marietta, OH 45750

PHONE NO: 800-373-4071

Sample ID	Date Collected	Time Collected	Matrix	REQUESTED PARAMETERS: VOC (1)	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
TB058	10/20/15	0730	DI	3	3		Trip Blank
FB019	10/20/15	1100	DI	3	3		Field Blank
Trip Blank	—	—	—	—	1		

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 3 3 6	Cooler Temperature:
COMPANY NAME: Leidos	10-21-15 1800	COMPANY NAME:		Cooler ID:	FEDEX NUMBER: 8081 0265 1782
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time	**Standard 5-DAY TAT**	
COM	Microbac OVD Received: 10/22/2015 10:10 By: BRENDA GREENWALT 221000077212			1 3 - 40 ml Glass Vials, HCL to pH < 2, 4C	
REL			Date/Time		
COM	Brenda Greenwalt				

Generated: 10/29/2015 15:07

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L15101278
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 29-OCT-2015

Samplenum	Container ID	Products
L15101278-01	650345	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER		22-OCT-2015 11:22	CLS		

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Samplenum	Container ID	Products
L15101278-02	650346	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

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: L15101278
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 29-OCT-2015

Samplenum	Container ID	Products
L15101278-03	650347	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Samplenum	Container ID	Products
L15101278-04	650348	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER		22-OCT-2015 11:22	CLS		

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER		22-OCT-2015 11:22	CLS		

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: L15101278
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 29-OCT-2015

Samplenum	Container ID	Products
L15101278-05	650349	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Samplenum	Container ID	Products
L15101278-06	650350	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

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: L15101278
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 29-OCT-2015

Samplenum	Container ID	Products
L15101278-07	650351	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Samplenum	Container ID	Products
L15101278-08	650352	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

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: L15101278
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 29-OCT-2015

Samplenum	Container ID	Products
L15101278-09	650353	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER		22-OCT-2015 11:22	CLS		

Samplenum	Container ID	Products
L15101278-10	650354	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

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: L15101278
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 29-OCT-2015

Samplenum	Container ID	Products
L15101278-11	650355	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER		22-OCT-2015 11:22	CLS		

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Samplenum	Container ID	Products
L15101278-12	650356	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER		22-OCT-2015 11:22	CLS		

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

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: L15101278
Account: 2870
Project: 2870.008
Samples: 15
Due Date: 29-OCT-2015

Samplenum	Container ID	Products
L15101278-13	650357	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:23	TMB	BRG	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER		22-OCT-2015 11:22	CLS		

Samplenum	Container ID	Products
L15101278-14	650358	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:24	TMB	BRG	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:24	TMB	BRG	

Samplenum	Container ID	Products
L15101278-15	650359	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER		22-OCT-2015 11:22	CLS		

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER		22-OCT-2015 11:22	CLS		

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	22-OCT-2015 11:22	CLS		
2	ANALYZ	V1	ORG4	22-OCT-2015 13:24	TMB	BRG	

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 - October 15, 2015

Non-NELAP LIMS Product and Description

The following is a list of those tests that are not included in the Microbac – OVD 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)
Propionaldehyde (HPLC-UV)

SOLID AND HAZARDOUS CHEMICALS
Nitrogen, Ammonia by Method 350.1
Chromium, Hexavalent, Leachable by SM3500 Cr-B 2009
Phenolics, Total by Method 420.1
ASTM D3987-06

NELAP Accreditation by Laboratory SOP

NONPOTABLE WATER

OVD HPLC02/HPLC-UV

Nitroglycerin
Acetic acid
Butyric acid
Lactic acid
Propionic acid
Pyruvic acid

OVD 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

OVD MSV01/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)

OVD HPLC07/HPLC-MS-MS

Hexamethylphosphoramide (XMPA-LCMS)

OVD HPLC12/HPLC/UV

Acetate
Formate

OVD RSK01/GC-FID

Acetylene
Propane

OVD K9305/ISE

Fluoroborate

SOLID AND HAZARDOUS CHEMICALS

OVD MSS0I/GC-MS

1-Methylnaphthalene
Benzaldehyde
Biphenyl
Caprolactam
Pentachloroethane

NELAP Accreditation by Laboratory SOP

SOLID AND HAZARDOUS CHEMICALS

OVD MSV0I/GC-MS

1.3-Butadiene
Cyclohexane
Cyclohexanone
Dimethyl disulfide
Dimethylsulfide
Ethyl-t-butylether (ETBE)
Isoprene
Methylacetate
Methylcyclohexane
n-Hexane
T-amylmethylether (TAME)

Non-DoD LIMS Product and Description

The following is a list of those tests that are not included in the Microbac – OVD DoD Scope of Accreditation:

SOLID AND HAZARDOUS CHEMICALS

Fluoride by EPA 300.0/9056/9056A
Bromide by EPA 9056/9056A
Nitrate as N by EPA 9056/9056A

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APPENDIX C AUGUST 2015 NEW AIR BIOSPARGE POINTS

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FIELD CHANGE ORDER NO.: **04**

PROJECT: **Eastern Regional Installation Restoration Program, Remedial Action – Operations, Long Term Monitoring, Project Closeout at Multiple Air National Guard Installations Eastern Region, Project Number: ANG2012EASTIRP**

CONTRACT NO.: **DAHA92-01-D-0008 Delivery Order No. 198**

REQUESTER IDENTIFICATION:

NAME: **Michael Poligone** ORGANIZATION: Leidos PHONE: **(865) 481-8749**

TITLE: **SAIC Project Manager** SIGNATURE: M. Pol

BASELINE IDENTIFICATION:

BASELINE(S) AFFECTED: ☒ COST ☒ SCOPE ☒ MILESTONE ☒ METHOD OF ACCOMPLISHMENT

AFFECTED DOCUMENT: **Final Work Plan Addendum #3 for Remedial Action Operations, Long Term Monitoring, And Project Closeout at Installation Restoration Program Sites 1, 4, 7, 8, 9, 10, 11, dated June 2012**

DESCRIPTION OF CHANGE:

Install 3-4 new air sparge locations to further enhance system performance. See attached figure for locations and additional details.

JUSTIFICATION:

Additional sparge points were part of the existing proposal for this site.

IMPACT OF NOT IMPLEMENTING REQUEST:

Cost, Schedule, and milestone delay.

PARTICIPANTS AFFECTED BY IMPLEMENTING REQUEST:

Gabreski Air National Guard Base, Suffolk County Airport Authority, SAIC

COST ESTIMATE: **N/A** ESTIMATOR SIGNATURE: _____

PHONE: _____ DATE: _____

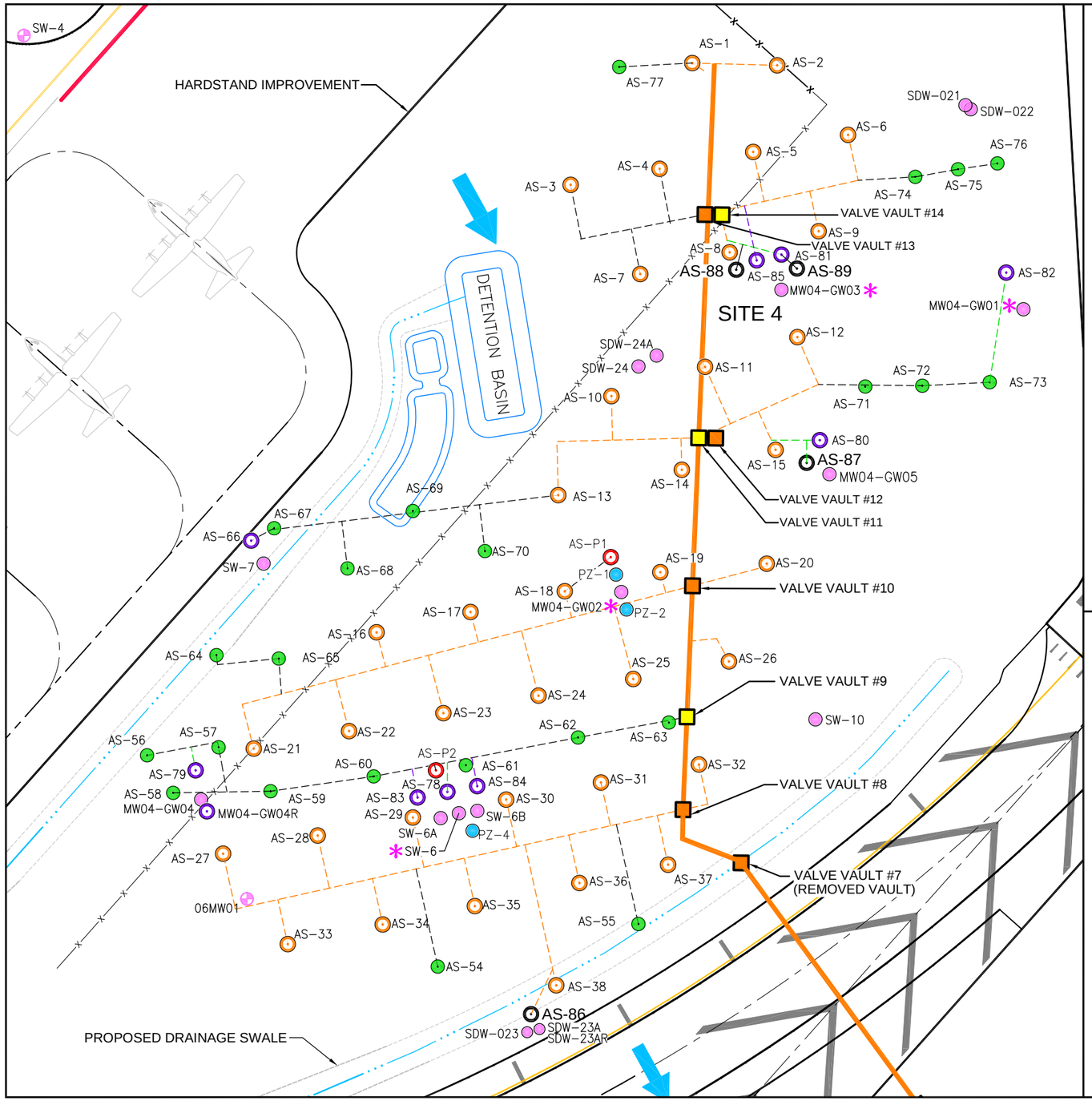
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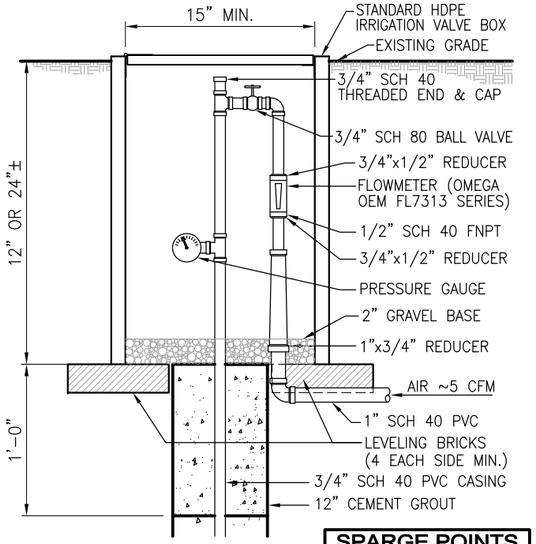
CLIENT PROJECT MANAGER _____ DATE _____

CLIENT QA SPECIALIST _____ DATE _____

SAIC H&S MANAGER SIGNATURE: **N/A - Existing AHAs encompass new scope.** DATE _____
(IF APPLICABLE)

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NOTES:

1. FITTING LISTED ARE SUGGESTED AND SUBCONTRACTOR CAN SUBSTITUTE FOR LOCALLY AVAILABLE FITTINGS. SUBCONTRACTOR SHALL CHECK FITTINGS PRIOR TO MOBILIZATION.

A - NEW & EXISTING SPARGE POINT WITH FLOW METER DETAIL
NOT TO SCALE

SPARGE POINTS

PROPOSED	DEPTH (FT)
86	38
87	40
88	36
89	36

LEGEND:

- ....PERFORMANCE PIEZOMETER (PILOT TEST)
- .....2012 BIOSPARGE WELL
- .....2008 BIOSPARGE WELL
- .... 2012 BIOSPARGE WELL FOR PILOT TEST
- .....2013/2014 BIOSPARGE WELL
- .....MONITORING WELL
- ..... PROPOSED BIOSPARGE WELL
- .....2008 SPARGE LINE (3-IN PVC)
- .....2008 SPARGE LINE (1-IN PVC)
- .2012/2013 SPARGE LINE (3-IN PVC)
- .2012/2013 SPARGE LINE (1-IN PVC)
- .....2008 VALVE VAULT
- .....2012/2013 VALVE VAULT
- ..... GROUNDWATER FLOW DIRECTION
- .....TREES/BRUSH, HEAVY GROWTH
- * ..... MONITORING WELLS SELECTED FOR QUARTERLY PERFORMANCE MONITORING
- .. DRAINAGE FEATURE INSTALLED AS PART OF HARDSTAND IMPROVEMENT

NOTES:

THE FOLLOWING NOTES SUPPLEMENT WORK PLAN ADDENDUM 3 FOR IRP SITES 1, 4, 7, 8, 9, 10, 11, AND 12 (AUGUST 2012) AND WORK PLAN ADDENDUM 4 (JULY 2013).

1. LEIDOS WILL INSTALL PROPOSED SPARGE WELLS AS-86, AS-87, AS-88, AND AS-89. INSTALL NEW SPARGE VAULTS AND SUPPLY LINES AS SHOWN ON DETAIL A.

NY LONG ISLAND
NAD 27

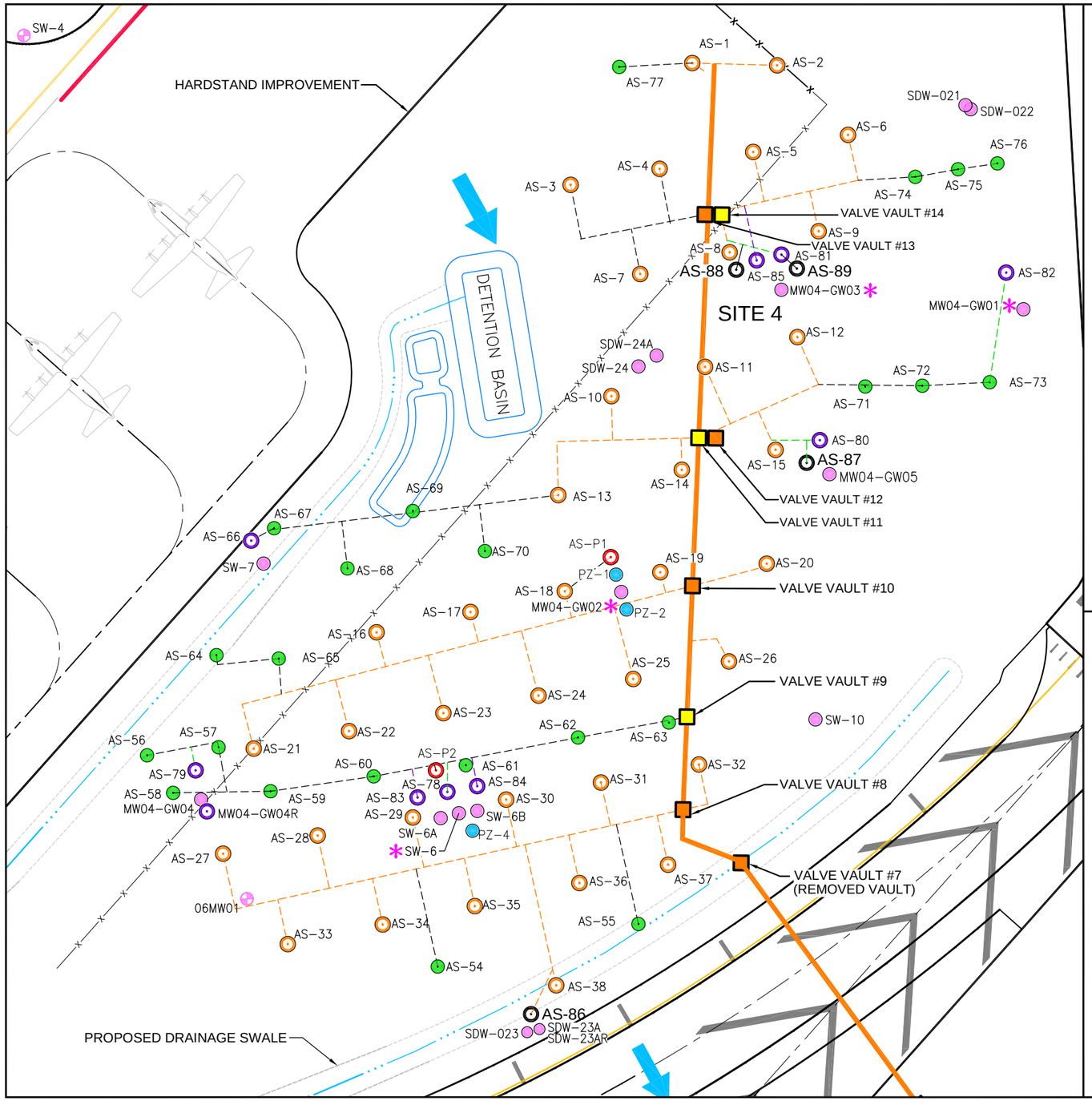
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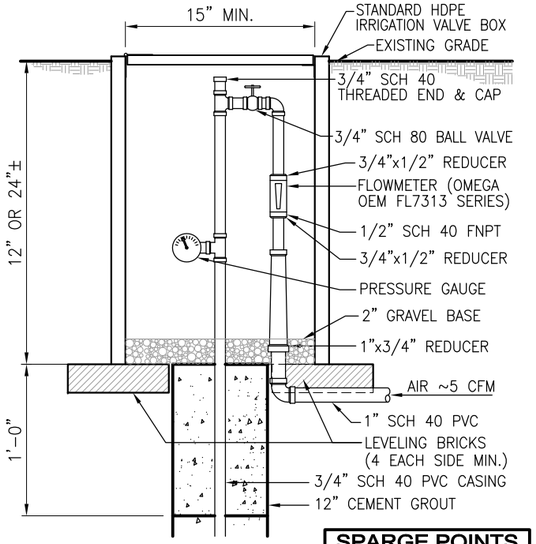
106th RESCUE WING
NEW YORK
AIR NATIONAL GUARD

106th RESCUE WING, NY ANG
FRANCIS S. GABRESKI AIRPORT
WESTHAMPTON BEACH, NY

DRAWN BY:	REV. NO./DATE:	CAD FILE:
R. BEELER	0/07-16-15	/12015/DWGS/M33_S04_SYSMOD-01

Figure 1. Biosparge System for Site 4, August 2015 - System Modifications





NOTES:

1. FITTING LISTED ARE SUGGESTED AND SUBCONTRACTOR CAN SUBSTITUTE FOR LOCALLY AVAILABLE FITTINGS. SUBCONTRACTOR SHALL CHECK FITTINGS PRIOR TO MOBILIZATION.

A - NEW & EXISTING SPARGE POINT WITH FLOW METER DETAIL
NOT TO SCALE

SPARGE POINTS

PROPOSED	DEPTH (FT)
86	38
87	40
88	36
89	36

LEGEND:

- ....PERFORMANCE PIEZOMETER (PILOT TEST)
- .....2012 BIOSPARGE WELL
- .....2008 BIOSPARGE WELL
- .... 2012 BIOSPARGE WELL FOR PILOT TEST
- .....2013/2014 BIOSPARGE WELL
- .....MONITORING WELL
- ..... PROPOSED BIOSPARGE WELL
- .....2008 SPARGE LINE (3-IN PVC)
- .....2008 SPARGE LINE (1-IN PVC)
- .2012/2013 SPARGE LINE (3-IN PVC)
- .2012/2013 SPARGE LINE (1-IN PVC)
- .....2008 VALVE VAULT
- .....2012/2013 VALVE VAULT
- ..... GROUNDWATER FLOW DIRECTION
- .....TREES/BRUSH, HEAVY GROWTH
- * ..... MONITORING WELLS SELECTED FOR QUARTERLY PERFORMANCE MONITORING
- .. DRAINAGE FEATURE INSTALLED AS PART OF HARDSTAND IMPROVEMENT

NOTES:

THE FOLLOWING NOTES SUPPLEMENT WORK PLAN ADDENDUM 3 FOR IRP SITES 1, 4, 7, 8, 9, 10, 11, AND 12 (AUGUST 2012) AND WORK PLAN ADDENDUM 4 (JULY 2013).

1. LEIDOS WILL INSTALL PROPOSED SPARGE WELLS AS-86, AS-87, AS-88, AND AS-89. INSTALL NEW SPARGE VAULTS AND SUPPLY LINES AS SHOWN ON DETAIL A.

NY LONG ISLAND
NAD 27

0 50 100 200
SCALE: 1" = 100'

106th RESCUE WING
NEW YORK
AIR NATIONAL GUARD

106th RESCUE WING, NY ANG
FRANCIS S. GABRESKI AIRPORT
WESTHAMPTON BEACH, NY

DRAWN BY:	REV. NO./DATE:	CAD FILE:
R. BEELER	0/07-16-15	/12015/DWGS/M33_S04_SYSMOD-01

Figure 1. Biosparge System for Site 4, August 2015 - System Modifications

Table C-1. Air Biosparge Well Construction Summary, August 2015

Air Biosparge Point	Installation Date	Total Depth (ft BGS)	Screened Interval (ft BGS)	Sand Backfill Depth (ft BGS)	Bentonite Seal Depth (ft BGS)	Sand Backfill Depth (ft BGS)	Grout Seal Depth (ft BGS)
AS-87	08/04/15	40	40 – 37	37– 34	34 – 32	32 – 4	4 – 2
AS-88	08/04/15	36	36 – 33	33 – 29	29 – 27	27 – 4	4 – 2
AS-89	08/04/15	36	36 – 33	33 – 28	28 – 24	24 – 4	4 – 2

ft BGS = feet below ground surface

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APPENDIX D SITE 9 NO FURTHER ACTION REQUEST AND APPROVAL LETTERS

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Poligone, Mike D.

From: Bishop, Heather L (DEC) <heather.bishop@dec.ny.gov>
Sent: Thursday, November 12, 2015 10:43 AM
To: Poligone, Mike D.
Cc: Jody.Murata@ang.af.mil; Swartwout, John (DEC); Karpinski, Steven (HEALTH); Paulsen, Ronald; Juchatz, Amy
Subject: RE: NY Air National Guard Gabreski Site 9 Closure Sampling

Mike,

The New York State Department of Health (NYSDOH), Suffolk County Department of Health Services (SCDHS), and the New York State Department of Environmental Conservation (NYSDEC) have reviewed the "Request for No Further Action at Installation Restoration Program Site 9, Francis S. Gabreski International Airport, Westhampton Beach, New York" submitted on behalf of the Air National Guard by Leidos. Based on our reviews, we have no comments or objections to the request for No Further Action (NFA) and grant approval of NFA for all IRP Site 9 monitoring wells on the site and understand that IRP Site 9 monitoring wells will be abandoned in accordance with NYSDEC requirements at a future date.

Please let me know if you need more information or have any questions.

Thanks –Heather

Heather Bishop
NYSDEC
Division of Environmental Remediation
625 Broadway, 12th floor
Albany, NY 12233

Phone: (518) 402-9692
Email: heather.bishop@dec.ny.gov

From: Poligone, Mike D. [mailto:MICHAEL.D.POLIGONE@leidos.com]
Sent: Sunday, September 20, 2015 7:35 AM
To: Bishop, Heather L (DEC)
Subject: FW: NY Air National Guard Gabreski Site 9 Closure Sampling

Heather,

Please let me know status of review and NFA request. I am available to discuss. Thanks.

From: Poligone, Mike D.
Sent: Thursday, July 30, 2015 2:09 PM
To: 'Heather Bishop (hlbishop@gw.dec.state.ny.us)'; 'Ron Paulsen (ronald.paulsen@suffolkcountyny.gov)'; 'Jody C Murata, CIV ANG NGB/A7CVR'; 'Veronica Allen (vallen@bbande.com)'; 'sxk23@health.state.ny.us'
Subject: RE: NY Air National Guard Gabreski Site 9 Closure Sampling

All,

We have completed the proposed quarterly closure sampling at Gabreski Site 9 and are requesting no further action at this site. Please review the attached request for no further action and let me know if you have any questions.

Please note that biosparge and sampling operations are ongoing at Gabreski Site 4.

Mike Poligone, PE, CCE | Leidos
Sr. Project Manager| Environmental Restoration Solutions Division
phone: 865.481.8749 | fax 865.481.8760
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poligonem@leidos.com | leidos.com/engineering

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