October 25, 2019

Mr. Brian Jankauskas
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation, Remedial Bureau A
625 Broadway, 11th Floor
Albany, NY 12233-7015

REFERENCE: **National Guard Bureau Contract Number W9133L-14-D-0007, Task Order 0004, Eastern Region Installation Restoration Program Activities at Multiple Air National Guard Installations, Project #ANG2015EASTIRP**

SUBJECT: **Final Fifth Semiannual Monitoring Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, Stratton Air National Guard Base, Scotia, New York, dated October 2019**

Dear Mr. Jankauskas,

The above-referenced document is being submitted on a compact disc (CD) for your records, per Task 9.4 of Task Order 0004.

Leidos was contracted by the Air National Guard to perform remedial action at Installation Restoration Program Site 6 at Stratton Air National Guard Base. This document serves as the Fifth Semiannual Monitoring Report documenting results from the March and June 2019 monitoring events following the April 2018 biostimulation and bioaugmentation injections to treat groundwater.

Should you have any questions, please do not hesitate to contact me at 865.405.8332 or by email at poligonem@leidos.com. Thank you.

Sincerely,

LEIDOS

M. Poligone

Michael Poligone
Project Manager

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FINAL

FIFTH SEMIANNUAL MONITORING REPORT
FOR
INSTALLATION RESTORATION PROGRAM
SITE 6 (SUSPECTED SPILL AREA)

109th Airlift Wing
New York Air National Guard
Stratton Air National Guard Base
Scotia, New York

October 2019

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FIFTH SEMIANNUAL MONITORING REPORT
FOR
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SITE 6 (SUSPECTED SPILL AREA)

109th Airlift Wing
New York Air National Guard
Stratton Air National Guard Base
Scotia, New York

October 2019

Contract Number W9133L-14-D-0007
Task Order Number 0004

Prepared for
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Fifth Semiannual Monitoring Report Certification

I, Michael Poligone, certify that I am currently a New York State-registered professional engineer, as defined in 6 New York Codes, Rules, and Regulations Part 375, and that this Fifth Semiannual Monitoring Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10).



Signature: _____

Name (print): **Michael Poligone**

New York State Professional Engineer License Number: **096083**

Date: **10/24/19**

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ACRONYMS

AGWQS	Ambient Groundwater Quality Standards
AMSL	above mean sea level
ANG	Air National Guard
AW	Airlift Wing
COC	chemical of concern
DCE	dichloroethene
DHC	*Dehalococcoides* sp.
DO	dissolved oxygen
EVO	emulsified vegetable oil
NFA	no further action
NTU	nephelometric turbidity unit
NYANG	New York Air National Guard
NYSDEC	New York State Department of Environmental Conservation
ORP	oxidation-reduction potential
PCE	tetrachloroethene
RA	remedial action
RA-O	remedial action-operation
RAO	remedial action objective
RACR	Remedial Action Completion Report
RAWP	Remedial Action Work Plan
ROD	Record of Decision
S.U.	standard unit
SANGB	Stratton Air National Guard Base
SCA	Schenectady County Airport
SCO	site closeout
TCE	trichloroethene
TOC	total organic carbon
VC	vinyl chloride
VOC	volatile organic compound

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1.0 INTRODUCTION

Leidos was contracted by the Air National Guard (ANG) to perform remedial action-operations (RA-Os), groundwater monitoring, and site closeout (SCO) activities at Installation Restoration Program Site 6 (Suspected Spill Area) at the 109th Airlift Wing (AW), New York Air National Guard (NYANG), Stratton Air National Guard Base (SANGB) in Scotia, New York. This work is being performed under National Guard Bureau Contract Number W9133L-14-D-0007, Task Order Number 0004 in accordance with the selected remedy for Site 6 groundwater, as dictated by the approved *Record of Decision for Sites 3 and 6 for the 109th Airlift Wing, Schenectady Air National Guard Base, Scotia, New York* (ANG 2012).

Groundwater monitoring is being conducted to evaluate the effects of bioremediation (e.g., biostimulation and/or bioaugmentation), including an initial injection event conducted in July 2016 and a supplemental injection event conducted in April 2018. The first, or baseline, monitoring event was conducted in May 2016. Initial sampling results and bioremediation injection activities are presented in the *Remedial Action Completion Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, Stratton Air National Guard Base (SANGB), Scotia, New York* (Leidos 2017a), herein referred to as the Remedial Action Completion Report (RACR). The second and third monitoring events were conducted in October 2016 and January 2017, respectively, and the sampling results are presented in the *First Semiannual Monitoring Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, New York Air National Guard, Stratton Air National Guard Base, Scotia, New York* (Leidos 2017b). The fourth and fifth monitoring events were conducted in April and July 2017, respectively, and the sampling results are presented in the *Second Semiannual Monitoring Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, New York Air National Guard, Stratton Air National Guard Base, Scotia, New York* (Leidos 2017c). The sixth and seventh monitoring events were conducted in October 2017 and March 2018, respectively, and the sampling results are presented in the *Third Semiannual Monitoring Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, New York Air National Guard, Stratton Air National Guard Base, Scotia, New York* (Leidos 2018). The eighth and ninth monitoring events were conducted in August and November 2018, respectively, following the supplemental bioremediation injection activities conducted in April 2018; sampling and supplemental injection results are presented in the *Fourth Semiannual Monitoring Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, New York Air National Guard, Stratton Air National Guard Base, Scotia, New York* (Leidos 2019).This report summarizes the results of the tenth and eleventh groundwater monitoring events conducted March 6, 2019, and June 5 and 6, 2019, respectively, to measure the performance of bioremediation injection activities. Plans for remedial actions (RAs) and subsequent monitoring activities at Site 6 were established in the approved *Work Plan for Remedial Action-Operations, Monitoring, and Project Closeout at IRP Site 6 (Suspected Spill Area),* herein referred to as the Remedial Action Work Plan (RAWP) (Leidos 2016).

1.1 PROJECT PURPOSE AND SCOPE

The overall purpose of the RA-O and groundwater monitoring activities at Site 6 is to achieve SCO within the 56-month period of performance ending in April 2020. The specific scope for Site 6 is to optimize in-situ enhanced reductive dechlorination through biostimulation and bioaugmentation to biologically degrade low levels of chlorinated volatile organic compounds (VOCs) to below New York State Department of Environmental Conservation (NYSDEC) groundwater standards to achieve SCO. Quarterly and semiannual monitoring events are conducted to evaluate the progress of reductive dechlorination via bioremediation and to determine the progress of the biological degradation of residual contamination left after active treatment.

No further action (NFA) will be recommended for all Site 6 wells comprehensively after all wells are below NYSDEC groundwater standards for four consecutive events. Once NFA has been approved for all Site 6 wells, SCO field activities will be conducted.

1.2 SITE DESCRIPTION AND BACKGROUND

The 109th AW of NYANG is located at SANGB in the southeast portion of Schenectady County Airport (SCA) in Scotia, New York. The federal government leases the land from the SCA and licenses the land back to NYANG. The Base is comprised of approximately 126 acres, designated for exclusive use by NYANG. Land to the north, east, and west of the Base is agricultural and residential. The Mohawk River lies to the south of the Base, along with a railway and commercial and residential properties.

Site 6 (Suspected Spill Area), located near the southern corner of the Base, covers an area of approximately 0.96 acre and is bounded by a drainage ditch to the southwest and to the north by monitoring well 6MW-21 (Figure 1-1). Soil and groundwater have been impacted at this site by past releases from aircraft fueling, maintenance, operation activities, and training exercises. Cleanup of contaminated areas has taken place over the last decade to prevent further environmental impacts.

1.3 REMEDIAL ACTION OBJECTIVES

The RA presented in the RAWP (Leidos 2016) was intended to increase remedial efficiencies and close the site in the most expedient and efficient way possible, while protecting public health, welfare, and the environment from actual or threatened releases of pollutants or contaminants from this site, which may present an imminent and substantial endangerment to public health or welfare. Remedial action objectives (RAOs) provide a general description of what the cleanup will accomplish. RAOs identified for Site 6 groundwater were developed in the Record of Decision (ROD) (ANG 2012) and include the following:

- Prevent contact with, or inhalation of, VOCs from contaminated groundwater.
- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Restore the groundwater aquifer to pre-disposal/pre-release conditions to the extent practicable.
- Prevent impacts to biota from ingestion/direct contact.

Groundwater is the only medium of concern requiring RA at Site 6. ANG requested NFA for site soil in March 2015 (ANG 2015), which was approved by NYSDEC in April 2015 (NYSDEC 2015).

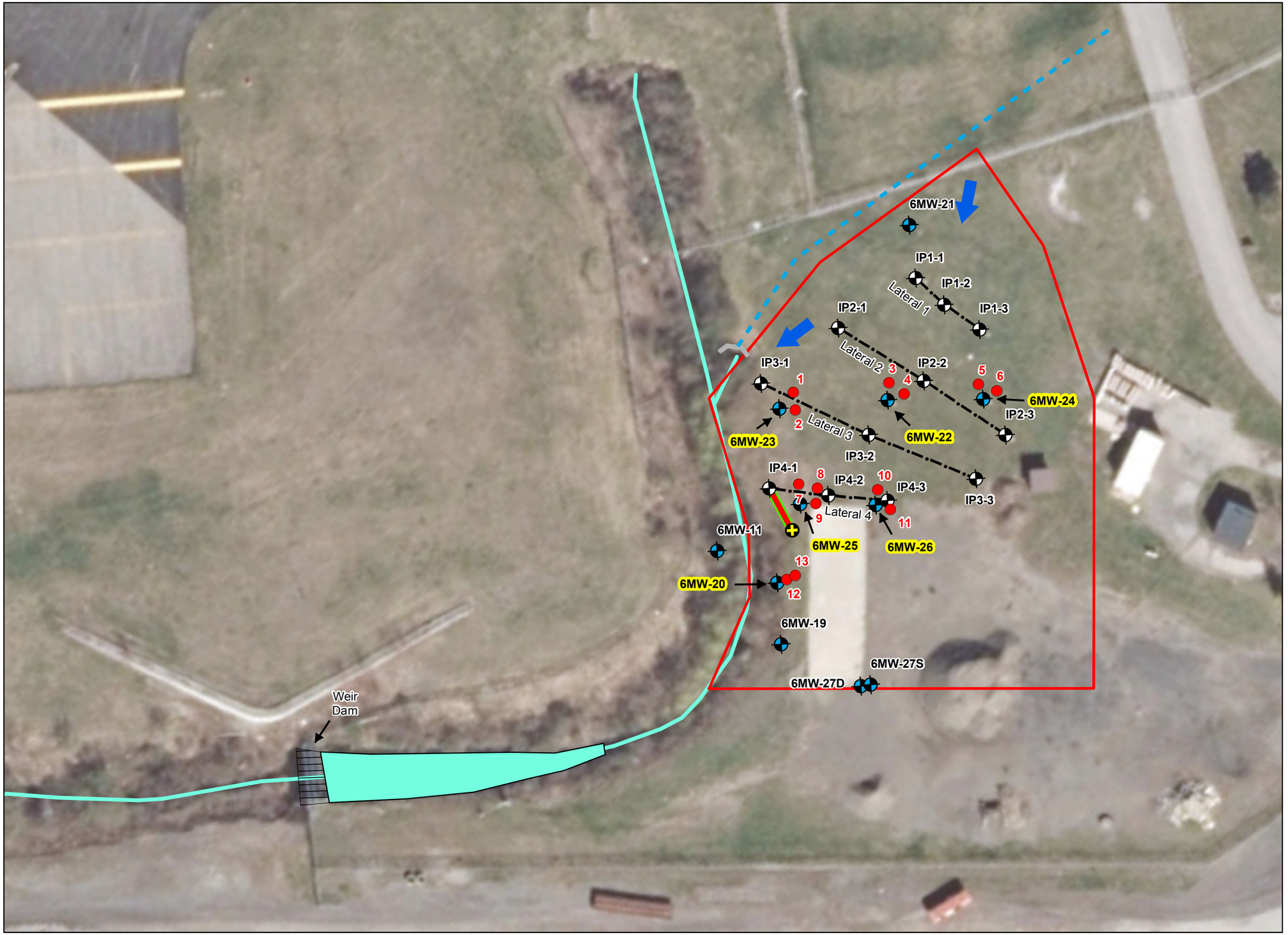
1.4 GROUNDWATER REMEDIAL ACTION OBJECTIVES

The ROD for Site 6 identified site-related chemicals of concern (COCs) in groundwater that pose a potential risk to human health and the environment (ANG 2012). Tetrachloroethene (PCE); trichloroethene (TCE); cis-1,2-dichloroethene (DCE); and vinyl chloride (VC) were identified as primary groundwater COCs, with concentrations exceeding established NYSDEC Class GA Ambient Groundwater Quality Standards (AGWQS) (NYSDEC 1998). Remedial levels for groundwater are the NYSDEC Class GA AGWQS, as listed in Table 1-1.

Table 1-1. Remedial Levels for Site 6 Groundwater COCs

COC	Remedial Level (µg/L)
Tetrachloroethene	5
Trichloroethene	5
cis-1,2-Dichloroethene	5
Vinyl Chloride	2

COC = Chemical of concern.



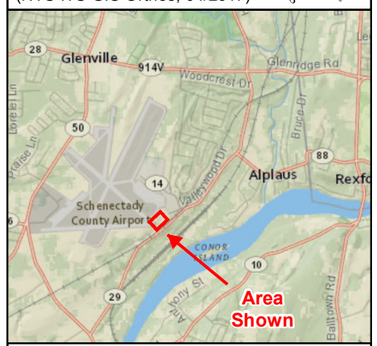
LEGEND

- Injection Well
- Monitoring Well
- Infusion Point
- Collection Sump
- Interceptor Trench
- Horizontal Infusion Well
- Approximate Location of Stormwater Drain
- Drainage Ditch
- Stormwater Outfall
- Site 6 Boundary
- General Groundwater Flow Direction
- 6MW-24 Performance Monitoring Well

NOTES

0 20 40 80 Feet
1 inch = 50 feet

Data Sources:
Background: ESRI World Imagery
(NYS ITS GIS Orthos, 04/2017)



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SITE FEATURES, INJECTION WELLS AND MONITORING LOCATIONS FOR SITE 6 REMEDIAL ACTION

NEW YORK AIR NATIONAL GUARD
109TH AIRLIFT WING
SCOTIA, NEW YORK

FIGURE: 1-1	DATE: 1/11/2019

PROJECT: \Eastern_IRP\6. GIS Files\Schenectady\Projects\LTM_Rpt_2018Nov\Figure 1-1 Sample Locations For Site 6_11x17.mxd

1.5 GENERAL REMEDIAL APPROACH UNDER THIS TASK ORDER

Field activities are detailed in the RAWP (Leidos 2016) and included the following:

- Conduct a baseline groundwater monitoring event to establish pre-injection contaminant conditions.
- Install permanent injection wells and an interceptor trench, and conduct a pilot study.
- Perform bioremediation injections to treat groundwater.

Following the completion of the bioremediation injections documented herein, the following activities will be conducted and reported in periodic groundwater monitoring reports and a final SCO Report:

- Conduct groundwater performance monitoring and closure monitoring events.

- Conduct targeted bioremediation injections to treat groundwater if exceedances above NYSDEC groundwater standards are present after multiple sampling events.

- Perform project closeout by abandoning vertical infusion points, horizontal infusion wells, injection wells, and site monitoring wells.

1.6 PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIVITIES

Previous investigations and remedial activities at Site 6 prior to this task order are presented in the RACR (Leidos 2017a).

1.7 PREVIOUS REMEDIAL ACTIVITIES PERFORMED UNDER THIS TASK ORDER

RA activities conducted under the RAWP (Leidos 2016) to date have consisted of a baseline monitoring event conducted in May 2016, a bioremediation injection event conducted in July 2016, and a supplemental bioremediation injection event conducted in April 2018. Details of the baseline monitoring event, bioremediation injection activities, and performance monitoring events are summarized below. Figure 1-2 and Table 3-2 provide past and current sampling results for the six monitoring wells identified in the RAWP (Leidos 2016). Sampling results for the current monitoring events (March and June 2019) are discussed in Chapter 3.0.

1.7.1 Baseline Monitoring Event

A baseline monitoring event was conducted May 11 through 13, 2016, prior to remedial activities. The purpose was to establish subsurface conditions and verify amendment quantities based on contaminant concentrations and distribution.

Samples were analyzed for VOCs, total organic carbon (TOC), sulfate, nitrate, and field parameters from six wells (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26). PCE; TCE; cis-1,2-DCE; and VC concentrations are shown on Figure 1-2. Additionally, one sample was collected from well 6MW-25 and analyzed for *Dehalococcoides* sp. (DHC). Results indicated that PCE; TCE; cis-1,2-DCE; and VC remained above their respective NYSDEC groundwater standards in one or more monitoring wells. The maximum detected contaminant concentrations included 20 µg/L of PCE; 58 µg/L of cis-1,2-DCE; and 21 µg/L of VC all detected in 6MW-25; and 5.9 µg/L of TCE in 6MW-24. The results of the geochemical analysis during the baseline monitoring indicated generally aerobic conditions based upon dissolved oxygen (DO) concentrations above 1 mg/L and neutral to slightly positive oxidation-reduction potential (ORP) readings in most wells. Nitrate and sulfate were detected at levels considered desirable for anaerobic in-situ bioremediation. Well 6MW-25 was sampled for DHC and contained 357 cells/mL, considered to be in the moderate range (100 to

6MW-24 (4'-9') — µg/L

Sample Date	2013 Sep	2014 Aug	2016 May	2017 Jan	2017 Apr	2017 Jul	2017 Oct	2018 Mar	2018 Aug	2018 Nov	2019 Mar	2019 June
PCE	0.25 U	0.25 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	2.5 U	0.40 U	2.5 U	2.5 U
TCE	**12.0**	**10.0**	**5.9**	3.2 J	4.6 J	**6.9**	1.6 J	**6.3**	**7.4**	**5.2**	1.3 J	1.8 J
cis-1,2-DCE	**14.0**	**9.7**	4.8 J	3.6 J	3 J	4.7 J	3.7 J	2.2 J	**6.3**	3.9	3.7 J	3.3 J
VC	0.50 U	0.50 U	1.0 U	1.6 J	0.52 J	1.3 J	**9.1**	1.0 U	2.5 U	0.46 J	2.0 U	**2.3 J**

6MW-21 (3'-8') — µg/L

Sample Date	2013 Sep	2014 Aug	2014 Sep	2014 Oct	2014 Dec
PCE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
TCE	0.33 J	1.0	2.9	4.5	0.25 U
cis-1,2-DCE	0.19 J	0.49 J	0.73 J	1.1	0.25 U
VC	0.50 U	0.50U	0.50 U	0.50 U	0.50 U

6MW-22 (4'-9') — µg/L

Sample Date	2014 Dec	2016 May	2017 Jan	2017 Apr	2017 Jul	2017 Oct	2018 Mar	2018 Aug	2018 Nov	2019 Mar	2019 June
PCE	**6.5**	3.4 J	**5.2**	4.8 J	1.4 J	1.0 UJ	1.5 J	**7.3 J**	0.23 J	2.5 U	2.5 U
TCE	**7.0**	3.6 J	2.2 J	1.9 J	1.7 J	1.0 UJ	0.41 J	1.3 J	0.26 J	2.5 U	2.5 U
cis-1,2-DCE	**16.0**	**16**	1.6 J	2.5 J	3.3 J	1.0 UJ	0.81 J	**8.1 J**	**5.7**	2.5 U	0.80 J
VC	0.50 U	1.0 U	**2.5 J**	**2.3 J**	**2.3 J**	1.0 UJ	1.0 U	2.5 U	**3.6**	2.0 U	2.0 U

6MW-23 (4'-9') — µg/L

Sample Date	2013 Sep	2014 Aug	2016 May	2017 Jan	2017 Apr	2017 Jul	2017 Oct	2018 Mar	2018 Aug	2018 Nov	2019 Mar	2019 June
PCE	**5.9**	**16.0**	3.0 J	0.81 J	1.5 J	1 U	1.0 U	0.80 J	0.65 J	1.6	2.5 U	2.5 U
TCE	3.0	**5.4**	1.7 J	0.79 J	1.1 J	0.8 J	1.0 U	0.78 J	0.67 J	0.75 J	2.5 U	2.5 U
cis-1,2-DCE	**18.0**	**18.0**	**13**	0.93 J	0.85 J	2.1 J	1.0 U	1.3 J	1.9 J	1.2	1.7 J	3.0 J
VC	**3.2**	**2.0**	1.0 U	1 U	1 U	1.6 J	1.1 J	0.54 J	2.5 U	0.59 J	2.0 U	1.8 J

6MW-25 (4'-9') — µg/L

Sample Date	2013 Sep	2014 Sep	2016 May	2017 Jan	2017 Apr	2017 Jul	2017 Oct	2018 Mar	2018 Aug	2018 Nov	2019 Mar	2019 June
PCE	4.5	**52.0**	**20**	1 U	1 U	1 U	1.0 UJ	1.0 U	2.5 U	0.40 U	2.5 U	2.5 U
TCE	**5.0**	**8.1**	**5.8**	1 U	1 U	1 U	1.0 UJ	1.2 J	2.5 U	0.40 U	2.5 U	2.5 U
cis-1,2-DCE	**220.0**	**36.0**	**58**	1.5 J	1.6 J	**5.8**	2.6 J	3.8 J	3.5 J	4.0	2.5 U	**6.1**
VC	**79.0**	0.50 U	**21**	1 U	1.4 J	**66**	**14 J**	**15**	**3.6 J**	**4.6**	2.0 U	**15**

6MW-26 (4'-9') — µg/L

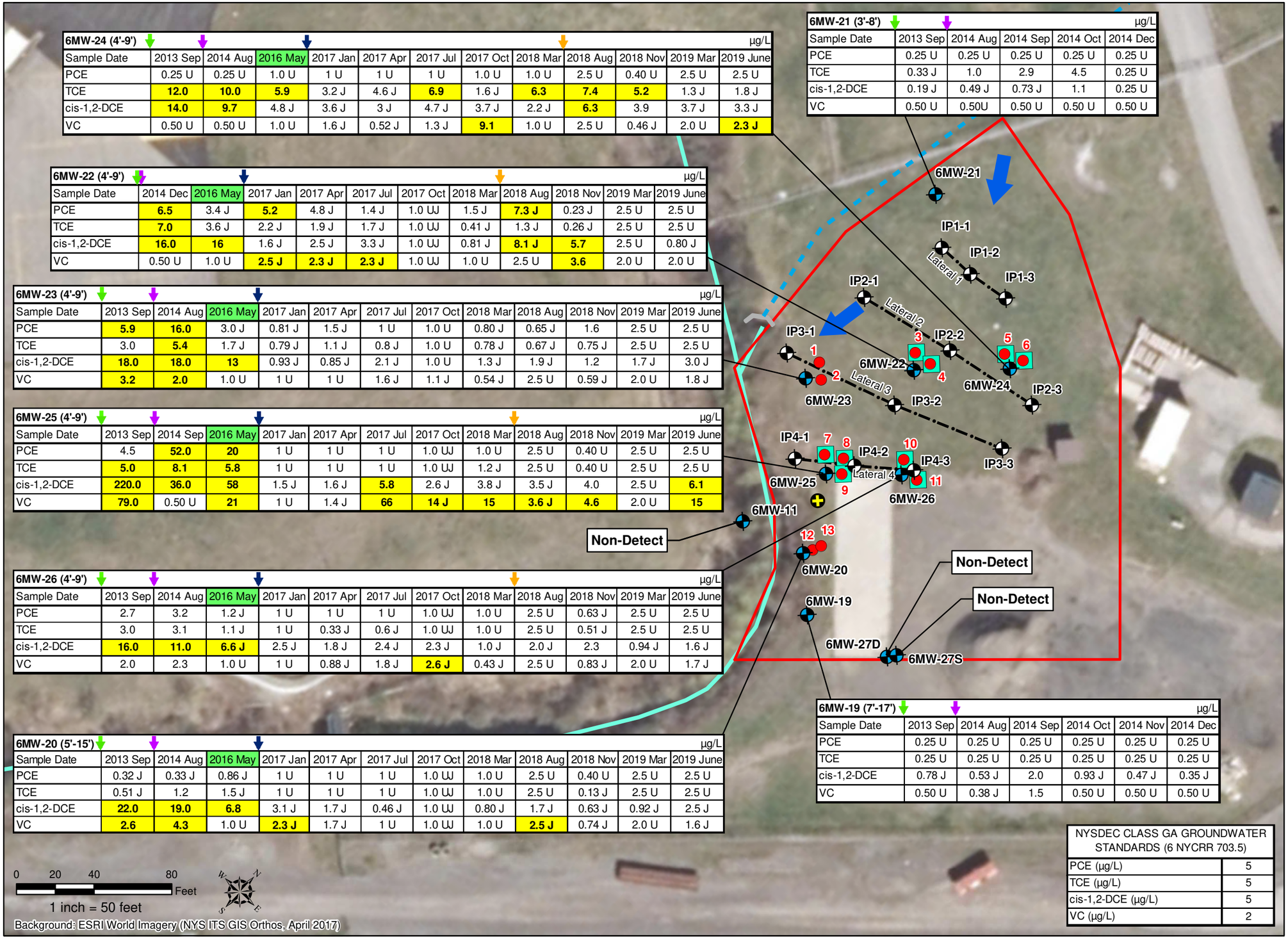
Sample Date	2013 Sep	2014 Aug	2016 May	2017 Jan	2017 Apr	2017 Jul	2017 Oct	2018 Mar	2018 Aug	2018 Nov	2019 Mar	2019 June
PCE	2.7	3.2	1.2 J	1 U	1 U	1 U	1.0 UJ	1.0 U	2.5 U	0.63 J	2.5 U	2.5 U
TCE	3.0	3.1	1.1 J	1 U	0.33 J	0.6 J	1.0 UJ	1.0 U	2.5 U	0.51 J	2.5 U	2.5 U
cis-1,2-DCE	**16.0**	**11.0**	**6.6 J**	2.5 J	1.8 J	2.4 J	2.3 J	1.0 J	2.0 J	2.3	0.94 J	1.6 J
VC	2.0	2.3	1.0 U	1 U	0.88 J	1.8 J	**2.6 J**	0.43 J	2.5 U	0.83 J	2.0 U	1.7 J

6MW-20 (5'-15') — µg/L

Sample Date	2013 Sep	2014 Aug	2016 May	2017 Jan	2017 Apr	2017 Jul	2017 Oct	2018 Mar	2018 Aug	2018 Nov	2019 Mar	2019 June
PCE	0.32 J	0.33 J	0.86 J	1 U	1 U	1 U	1.0 UJ	1.0 U	2.5 U	0.40 U	2.5 U	2.5 U
TCE	0.51 J	1.2	1.5 J	1 U	1 U	1 U	1.0 UJ	1.0 U	2.5 U	0.13 J	2.5 U	2.5 U
cis-1,2-DCE	**22.0**	**19.0**	**6.8**	3.1 J	1.7 J	0.46 J	1.0 UJ	0.80 J	1.7 J	0.63 J	0.92 J	2.5 J
VC	**2.6**	**4.3**	1.0 U	**2.3 J**	1.7 J	1 U	1.0 UJ	1.0 U	**2.5 J**	0.74 J	2.0 U	1.6 J

6MW-19 (7'-17') — µg/L

Sample Date	2013 Sep	2014 Aug	2014 Sep	2014 Oct	2014 Nov	2014 Dec
PCE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
TCE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
cis-1,2-DCE	0.78 J	0.53 J	2.0	0.93 J	0.47 J	0.35 J
VC	0.50 U	0.38 J	1.5	0.50 U	0.50 U	0.50 U



NYSDEC CLASS GA GROUNDWATER STANDARDS (6 NYCRR 703.5)

PCE (µg/L)	5
TCE (µg/L)	5
cis-1,2-DCE (µg/L)	5
VC (µg/L)	2

Legend

- Monitoring Well
- Infusion Point
- Collection Sump
- Injection Well
- Horizontal Infusion Well
- Approximate Location of Stormwater Drain
- Drainage Ditch
- Stormwater Outfall
- Site 6 Boundary
- General Groundwater Flow Direction
- June 2013 Injection Event
- May 2014 Injection Event
- July 2016 Injection Event
- April 2018 Injection Event
- 2018 Injection Well Location
- 2016 Baseline Sampling Event for Task Order 0004

Notes:
DCE- Dichloroethene
PCE- Tetrachloroethene
TCE- Trichloroethylene
VC- Vinyl Chloride
J- Results are an estimated concentration
U- Results are below detection limit
ND- Non-Detect
XXX- Concentration exceeds NYSDEC GA Groundwater Standards
(1) In-situ chemical oxidation involving injection of sodium permanganate conducted June 17-21, 2013 and May 6-8, 2014.
(2) Biostimulation and bioaugmentation injection conducted July 25-29, 2016.
(3) Select calendar year 2014, 2015, and 2016 sampling events were deleted so most recent data can be clearly inserted.



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GROUNDWATER CONCENTRATIONS AT SITE 6, SEPTEMBER 2013 TO JUNE 2019

NEW YORK AIR NATIONAL GUARD
109TH AIRLIFT WING
SCOTIA, NEW YORK

FIGURE: 1-2 | DATE: 8/15/2019

PROJECT: \Eastern_IRP\6. GIS Files\Schenectady\Projects\LTM_Rpt_2018Nov\Figure 1-2 GW Concentrations at Site 6_11x17.mxd

less than 10,000 cells/mL), with concentrations greater than or equal to 10,000 cells/mL considered ideal (Lu et al. 2006). TOC concentrations were generally an order of magnitude below the minimum level (i.e., 20 mg/L) considered optimum for reductive dechlorination.

1.7.2 July 2016 Bioremediation Injections

Based on results from the baseline sampling, it was determined that bioremediation would require addition of an electron donor and DHC cells to increase TOC and stimulate DHC growth. Therefore, a total of 13 injection wells were installed between June 28 and 30, 2016, in areas where chlorinated groundwater continues to exceed groundwater criteria. The wells were installed surrounding monitoring wells 6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26 (Figure 1-1).

The emulsified vegetable oil (EVO) and DHC injection activities took place from July 25 through 29, 2016. Approximately 40 gal of Terra Systems SRS-FRL Large Droplet EVO biostimulant was combined with potable water and injected using between 600 gal (at injection wells 12 and 13) and 750 gal of potable water per injection well. In addition, approximately 20 gal of EVO and 350 gal of potable water were injected into three of the horizontal infusion laterals. The biostimulation amendment was injected into the 13 new injection wells and 5 infusion gallery access points (IP2-2, IP3-2, IP3-3, IP4-2, and IP4-3; Figure 1-1).

Approximately 2 L of KB-1 Dechlorinator™ bioaugment was injected at the 13 injection wells and 1 L was injected at infusion points to encourage a microbial population greater than 10,000 DHC per mL, which increases the likelihood of complete degradation of the chlorinated solvents. DHC cannot survive in oxygenated environments, and chlorine is a bactericide. Therefore, 20 gal of deoxygenated and dechlorinated water was injected immediately before and after the injection of KB-1 Dechlorinator™ for a total of 40 gal per well.

1.7.3 Second and Third Monitoring Events

The second and third performance monitoring events were conducted on October 11, 2016, and January 9, 2017, respectively, after remedial activities. The purpose was to provide performance monitoring results after the July 2016 EVO and DHC injection activities. Additionally, the monitoring events are used to measure remaining EVO in the subsurface and determine if additional injections are necessary.

For both monitoring events, samples were analyzed for VOCs, TOC, and field parameters from six wells (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26). PCE; TCE; cis-1,2-DCE; and VC concentrations are shown on Figure 1-2. Results indicated that PCE; TCE; cis-1,2-DCE; and VC remained above their respective NYSDEC groundwater standards in one or more monitoring wells.

Results of the second and third monitoring events (October 2016 and January 2017) indicated significant changes since the baseline event (May 2016), and the desired progression of degradation from parent to daughter solvent compounds was evident in all six monitoring wells. Decreased PCE; TCE; and cis-1,2-DCE concentrations, and fluctuations in VC concentrations, point to ongoing anaerobic reductive dechlorination. The results are summarized and presented in Figure 1-2.

1.7.4 Fourth and Fifth Monitoring Events

The fourth and fifth performance monitoring events were conducted on April 12, and July 21, 2017, respectively, after remedial activities. The purpose was to provide performance monitoring results after the July 2016 EVO and DHC injection activities.

For both monitoring events, samples were analyzed for VOCs, TOC, and field parameters from six wells (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26). PCE; TCE; cis-1,2-DCE; and VC concentrations are shown on Figure 1-2. Results indicated that TCE; cis-1,2-DCE; and VC remained above their respective NYSDEC groundwater standards in three of six monitoring wells.

Results of the fourth and fifth monitoring events (April and July 2017) indicated significant changes since the baseline event (May 2016), and the desired progression of degradation from parent to daughter solvent compounds was evident in most monitoring wells, but there was also evidence of minor rebound in 6MW-24 and 6MW-25 (Figure 1-2).

1.7.5 Sixth and Seventh Monitoring Events

The sixth and seventh performance monitoring events were conducted on October 17, 2017, and March 28, 2018, respectively. The purpose was to provide performance monitoring results after the July 2016 EVO and DHC injection activities. Additionally, the monitoring events were used to measure remaining EVO in the subsurface and to determine the scope of supplemental injections to be conducted in April 2018.

For both monitoring events, samples were analyzed for VOCs, TOC, and field parameters from six wells (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26). PCE; TCE; cis-1,2-DCE; and VC concentrations are shown on Figure 1-2. Results indicated that TCE remained above the NYSDEC groundwater standards in one of six monitoring wells and VC remained above the NYSDEC groundwater standards in three of six monitoring wells. PCE and cis-1,2-DCE were both below their respective NYSDEC groundwater standards in all six monitoring wells.

Results of the sixth and seventh monitoring events (October 2017 and March 2018, respectively) indicated significant changes since the baseline event (May 2016), and the desired progression of degradation from parent to daughter solvent compounds was evident in most monitoring wells, but there was also evidence of minor rebound in 6MW-24, 6MW-25, and 6MW-26 (Figure 1-2).

1.7.6 April 2018 Bioremediation Injections

Based on results from the previous sampling events, the number of injection wells and the amendment quantities being injected were revised per the Third Semiannual Monitoring Report (Leidos 2018) as compared to the initial injection event conducted in July 2016 as documented in the RACR (Leidos 2017a). For the April 2018 injection event, EVO was injected into injection wells 3 through 11 to treat groundwater in the vicinity of four of the six monitoring wells initially treated in the RAWP (6MW-22, 6MW-24, 6MW-25, and 6MW-26). Due to their proximity to the creek and prior sampling results, injection wells 1 and 2 in the vicinity of 6MW-23 and injection wells 12 and 13 in the vicinity of 6MW-20 were not treated.

Terra Systems SRS-FRL Large Droplet EVO biostimulant was combined with potable water and injected into each injection well. For injection wells 3, 4, 10, and 11, associated with wells 6MW-22 and 6MW-26, 60 gal of EVO was injected with 600 gal of water, and for the remaining injection wells (5, 6, 7, 8, and 9) associated with wells 6MW-24 and 6MW-25, 70 gal of EVO was injected with 700 gal of water. The EVO and water mixture was gravity-fed into injection wells.

1.7.7 Eighth and Ninth Monitoring Events

The eighth and ninth performance monitoring events were conducted on August 15 and November 28, 2018, respectively, after remedial activities. The purpose was to provide performance monitoring results after the April 2018 EVO injection activities. Additionally, the monitoring events were used to measure remaining EVO in the subsurface.

For both monitoring events, samples were analyzed for VOCs, TOC, and field parameters from six wells (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26). PCE; TCE; cis-1,2-DCE; and VC concentrations are shown on Figure 1-2. Results indicated that TCE remained above the NYSDEC groundwater standards in one of six monitoring wells; cis-1,2-DCE remained above the NYSDEC groundwater standards in one of six monitoring wells; and VC remained above the NYSDEC groundwater standards in two of six monitoring wells. PCE was below the NYSDEC groundwater standard in all six monitoring wells in the ninth event.

Results of the eighth and ninth monitoring events (August 15 and November 28, 2018, respectively) indicated significant changes since the baseline event (May 2016), and the desired progression of degradation from parent to daughter solvent compounds was evident (Figure 1-2).

2.0 CURRENT FIELD ACTIVITIES

Field activities during this semiannual monitoring period consisted of two groundwater monitoring events. The tenth and eleventh groundwater monitoring events since the initiation of Task Order 004 were conducted on March 6, 2019, and June 5 and 6, 2019, respectively. Groundwater samples were collected from six monitoring wells (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26).

2.1 GROUNDWATER SAMPLING METHODS AND PROCEDURES

Groundwater samples were collected using low-flow purging techniques. All field equipment was decontaminated prior to initiating sample collection activities at each well. Water levels were obtained immediately prior to starting sampling activities at each well. Water level measurements are presented in Section 3.1. A low-flow pump was positioned at the approximate midpoint of the well screen or water column (see Table 2-1 for screened intervals). Monitoring wells were purged prior to sample collection, and field parameters of specific conductance, DO, ORP, pH, temperature, and turbidity were measured using a flow-through cell to prevent atmospheric contact prior to measurement. Pumping flow rates of 80 to 200 mL/min, depending on the production rate of the well, were maintained during purging and sample collection. Field parameters were recorded in field logbooks and stabilized prior to sample collection. Copies of monitoring well purge logs are included as Appendix A.

Table 2-1. Construction Details for Monitoring Wells

Well Identifier	TOC Elevation (ft AMSL)	Total Depth (ft BTOC)	Screen Interval (ft BGS)	Well Construction Materials	Completion Method
6MW-20	305.44	18	5.0 – 15.0	PVC	Stick-up
6MW-22	309.83	8.72	4.0 – 9.0	PVC	Flushmount
6MW-23	308.37	8.73	4.0 – 9.0	PVC	Flushmount
6MW-24	310.6	8.54	4.0 – 9.0	PVC	Flushmount
6MW-25	306.12	8.68	4.0 – 9.0	PVC	Flushmount
6MW-26	307.05	5.28	4.0 – 9.0	PVC	Flushmount

AMSL = Above mean sea level. PVC = Polyvinyl chloride.
BGS = Below ground surface. TOC = Top of casing.
BTOC = Below top of casing.

Samples from the two monitoring events were submitted to TestAmerica Laboratories, Inc., located in Arvada, Colorado, and St. Louis, Missouri, and analyzed for VOCs and TOC. Upon collection, groundwater samples were placed into laboratory-certified-clean sample containers. The sample containers were labeled, maintained in a cooler at an approximate temperature of 4ºC, and shipped overnight for analysis. Results of collected groundwater samples are discussed in Chapter 3.0.

2.2 DEVIATIONS FROM THE WORK PLAN

No deviations were noted during the tenth or eleventh groundwater monitoring events.

2.3 REMEDIATION-DERIVED WASTE

All purge water and decontamination liquids accumulated during field activities were collected in 5-gal containers and subsequently transported to a 55-gal drum and stored in the designated waste accumulation area pending disposal. Approximately 16 gal of liquid waste were generated during the two monitoring events.

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3.0 GROUNDWATER SAMPLING RESULTS

The following sections present the results of the tenth and eleventh groundwater monitoring events conducted in March and June 2019, respectively. Water level measurements, analytical results for key constituents (PCE; TCE; cis-1,2-DCE; VC; and TOC), and field parameters are discussed for these events. Copies of complete analytical results for the groundwater monitoring events are provided in Appendix B.

3.1 WATER LEVEL MEASUREMENTS

Groundwater level measurements collected in March and June 2019 are presented in Table 3-1.

Table 3-1. Water Level Measurements

Well Identifier	TOC Elevation (ft AMSL)	Screened Interval	March 2019		June 2019	
			Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
6MW-20	305.44	5.0 – 15.0	5.40	300.04	6.46	298.98
6MW-22	309.83	4.0 – 9.0	6.18	303.65	5.99	303.84
6MW-23	308.37	4.0 – 9.0	6.00	302.37	5.72	302.65
6MW-24	310.6	4.0 – 9.0	7.20	303.40	6.94	303.66
6MW-25	306.12	4.0 – 9.0	4.50	301.62	3.53	302.59
6MW-26	307.05	4.0 – 9.0	4.58	302.47	4.38	302.67

Source: TOC elevations were obtained from the Base Monitoring Well Inventory (February 8, 2017).
AMSL = Above mean sea level.
BTOC = Below top of casing.
TOC = Top of casing.

Groundwater elevations for Site 6 derived from the March 2019 water level measurements ranged from 300.04 ft above mean sea level (AMSL) at well 6MW-20, located adjacent to the drainage ditch, to 303.65 ft AMSL at well 6MW-22, located in the middle of the site. During the June 2019 event, groundwater elevations for the site ranged from 298.98 ft AMSL at well 6MW-20 to 303.84 ft AMSL at well 6MW-22. Groundwater flow direction remains consistent with the flow direction observed in past monitoring events and generally flows from north to south towards the drainage ditch and consistent with surface topography.

3.2 SAMPLING RESULTS

Figure 1-2 summarizes the analytical results of select monitoring events from September 2013 through the latest monitoring event in June 2019. Table 3-2 summarizes the analytical results and field parameters since the baseline sampling in May 2016.

3.2.1 Tenth Monitoring Event

The tenth groundwater monitoring event was conducted on March 6, 2019, approximately 11 months after the most recent bioremediation injection (April 2018). Groundwater samples were collected from six monitoring wells (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26). All groundwater samples were analyzed for VOCs and TOC.

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Table 3-2. May 2016 through June 2019 Monitoring Results

Well Identifier	NYSDEC AGWQS (1998, last amended June 2004)	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20
Sample Identifier		6MW-2001	6MW-2001D	6MW-2002	6MW-2002D	6MW-2003	6MW-2003D	6MW-2004	6MW-2004D	6MW-2005	6MW-2005D	6MW-2006	6MW-2006D	6MW-2007	6MW-2007D
Date		5/11/16	5/11/16	10/11/16	10/11/16	1/9/17	1/9/17	4/12/17	4/12/17	7/21/17	7/21/17	10/17/17	10/17/17	3/28/18	3/28/18
Groundwater Sample Type		Grab	FD	Grab	FD	Grab	FD	Grab	FD	Grab	FD	Grab	FD	Grab	FD
Volatile Organic Compounds (µg/L)															
Tetrachloroethene	5	0.86 J	1.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.5 J	1.5 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	**6.8**	**7**	4.4 J	3.9 J	3.1 J	3.1 J	1.7 J	1.7 J	0.46 J	0.40 J	1.0 UJ	1.0 U	0.80 J	0.70 J
Vinyl Chloride	2	1.0 U	1.0 U	**3.6 J**	**4.1 J**	**2.3 J**	**2.4 J**	1.7 J	1.7 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
General Chemistry (mg/L)															
Total Organic Carbon	--	3	3	1.2	NA	8.0	8.4	6.5	NA	8.6	NA	3.5	NA	3.5	3.5
Field Measurements															
Dissolved Oxygen (mg/L)	--	3.83	3.83	0.00	0.00	0.00	0.00	5.69	5.69	6.43	6.43	1.63	1.63	1.03	1.03
Oxidation-Reduction Potential (mV)	--	173	173	-224	-224	-174	-174	-160	-160	-201	-201	-30	-30	18	18
pH (S.U.)	--	6.75	6.75	6.51	6.51	6.34	6.34	6.50	6.50	6.63	6.63	6.19	6.19	7.09	7.09
Specific Conductance (mS/cm)	--	1.310	1.310	1.490	1.490	1.150	1.150	1.140	1.140	1.360	1.360	0.255	0.255	1.300	1.300
Temperature (°C)	--	17.9	17.91	16.37	16.37	16.00	16.00	10.77	10.77	20.21	20.21	14.55	14.55	5.04	5.04
Turbidity (NTU)	--	1.3	1.3	7.9	7.9	19.3	19.3	6.0	6.0	39.9	39.9	0.0	0.0	5.9	5.9
Water Level (ft BGS)	--	7.33	7.33	6.43	6.43	5.68	5.68	5.32	5.32	5.48	5.48	6.25	6.25	5.10	5.10

Bold highlighted values exceed the NYSDEC AGWQS.

Well was sampled during the baseline sampling event.

Well was sampled during this semiannual reporting period.

AGWQS = NYSDEC Class GA Ambient Groundwater Quality Standards.

BGS = Below ground surface.

FD = Field duplicate.

mS = MilliSiemens.

NA = Not analyzed.

NTU = Nephelometric turbidity unit.

NYSDEC = New York State Department of Environmental Conservation.

S.U. = Standard unit.

Qualifiers:

J = Estimated concentration.

U = Undetected.

NYSDEC 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1, June (last amended June 2004).

Table 3-2. May 2016 through June 2019 Monitoring Results (continued)

Well Identifier	NYSDEC AGWQS (1998, last amended June 2004)	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-22	6MW-22	6MW-22	6MW-22	6MW-22	6MW-22
Sample Identifier		6MW-2008	6MW-2008D	6MW-2009	6MW-2009D	6MW-2010	6MW-2010D	6MW-2011	6MW-2011D	6MW-2201	6MW-2202	6MW-2203	6MW-2204	6MW-2205	6MW-2206
Date		8/15/18	8/15/18	11/28/18	11/28/18	03/06/19	03/06/19	06/05/19	06/05/19	05/11/16	10/11/16	01/09/17	04/12/17	07/21/17	10/17/17
Groundwater Sample Type		Grab	FD	Grab	FD	Grab	FD	Grab	FD	Grab	Grab	Grab	Grab	Grab	Grab
Volatile Organic Compounds (µg/L)															
Tetrachloroethene	5	2.5 U	2.5 U	0.40 U	0.40 U	2.5 U	2.5 U	2.5 U	2.5 U	3.4 J	1.6 J	**5.2**	4.8 J	1.4 J	1.0 UJ
Trichloroethene	5	2.5 U	2.5 U	0.13 J	0.40U	2.5 U	2.5 U	2.5 U	2.5 U	3.6 J	1.2 J	2.2 J	1.9 J	1.7 J	1.0 UJ
cis-1,2-Dichloroethene	5	1.7 J	1.5 J	0.63 J	0.64 J	0.92 J	0.93 J	2.5 J	2.2 J	**16**	**36**	1.6 J	2.5 J	3.3 J	1.0 UJ
Vinyl Chloride	2	**2.5 J**	**2.1 J**	0.74 J	0.77 J	2.0 U	2.0 U	1.6 J	1.5 J	1.0 U	**9.3**	**2.5 J**	**2.3 J**	**2.3 J**	1.0 UJ
General Chemistry (mg/L)															
Total Organic Carbon	--	8.2	8.3	4.9	5.3	3.7	3.8	4.4	4.7	2.5	370	280	74	83	50
Field Measurements															
Dissolved Oxygen (mg/L)	--	1.22	1.22	1.04	1.04	8.34	8.34	1.62	1.62	4.78	0.00	6.60	4.32	10.88	1.02
Oxidation-Reduction Potential (mV)	--	-113	-113	-39	-39	-63	-63	-198	-198	194	-174	-134	-157	-187	-69
pH (S.U.)	--	6.37	6.37	6.16	6.16	6.11	6.11	8.23	8.23	6.87	6.34	6.73	6.54	6.47	6.78
Specific Conductance (mS/cm)	--	1.380	1.380	1.340	1.340	0.733	0.733	1.040	1.040	1.400	1.150	1.120	1.230	1.260	0.366
Temperature (°C)	--	18.95	18.95	7.83	7.83	3.09	3.09	18.97	18.97	18.78	16	5.2	10.02	20.47	16.74
Turbidity (NTU)	--	1.2	1.2	5.4	5.4	45.2	45.2	90.5	90.5	1.4	19.3	0.0	51.1	60.4	18.4
Water Level (ft BGS)	--	4.99	4.99	3.98	3.98	5.40	5.40	6.46	6.46	6.89	6.79	6.45	5.47	5.58	6.86

Bold highlighted values exceed the NYSDEC AGWQS.

Well was sampled during the baseline sampling event.

Well was sampled during this semiannual reporting period.

AGWQS = NYSDEC Class GA Ambient Groundwater Quality Standards.

BGS = Below ground surface.

FD = Field duplicate.

mS = MilliSiemens.

NA = Not analyzed.

NTU = Nephelometric turbidity unit.

NYSDEC = New York State Department of Environmental Conservation.

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Qualifiers:

J = Estimated concentration.

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NYSDEC 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1, June (last amended June 2004).

Table 3-2. May 2016 through June 2019 Monitoring Results (continued)

Well Identifier	NYSDEC AGWQS (1998, last amended June 2004)	6MW-22	6MW-22	6MW-22	6MW-22	6MW-22	6MW-23	6MW-23	6MW-23	6MW-23	6MW-23	6MW-23	6MW-23	6MW-23	6MW-23
Sample Identifier		6MW-2207	6MW-2208	6MW-2209	6MW-2210	6MW-2211	6MW-2301	6MW-2302	6MW-2303	6MW-2304	6MW-2305	6MW-2306	6MW-2307	6MW-2308	6MW-2309
Date		03/28/18	8/15/18	11/28/18	03/06/19	06/05/19	05/12/16	10/11/16	01/09/17	04/12/17	07/21/17	10/17/17	03/28/18	08/15/18	11/28/18
Groundwater Sample Type		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Volatile Organic Compounds (µg/L)															
Tetrachloroethene	5	1.5 J	**7.3 J**	0.23 J	2.5 U	2.5 U	3 J	0.31 J	0.81 J	1.5 J	1.0 U	1.0 U	0.80 J	0.65 J	1.6
Trichloroethene	5	0.41 J	1.3 J	0.26 J	2.5 U	2.5 U	1.7 J	0.34 J	0.79 J	1.1 J	0.8 J	1.0 U	0.78 J	0.67 J	0.75 J
cis-1,2-Dichloroethene	5	0.81 J	**8.1 J**	**5.7**	2.5 U	0.80 J	**13**	1.3 J	0.93 J	0.85 J	2.1 J	1.0 U	1.3 J	1.9 J	1.2
Vinyl Chloride	2	1.0 U	2.5 U	**3.6**	2.0 U	2.0 U	1.0 U	**6.4**	1.0 U	1.0 U	1.6 J	1.1 J	0.54 J	2.5 U	0.59 J
General Chemistry (mg/L)															
Total Organic Carbon	--	31	550	86	33	61	2.8	41	2.6	2.8	3.9	5.1	3.1	4.1	3.3
Field Measurements															
Dissolved Oxygen (mg/L)	--	0.17	0.06	0.80	3.35	1.33	3.20	0.00	7.55	7.62	6.11	0.64	0.15	0.00	2.05
Oxidation-Reduction Potential (mV)	--	-114	-86	-29	-50	-329	-37	-154	-104	-30	-193	-51	-72	-90	40
pH (S.U.)	--	7.03	6.37	5.93	5.27	10.11	6.81	6.66	7.1	6.79	6.61	6.62	7.22	6.2	6.14
Specific Conductance (mS/cm)	--	1.060	1.160	1.600	0.218	0.788	1.120	1.020	0.490	0.280	0.825	0.239	0.890	0.780	0.572
Temperature (°C)	--	5.47	21.53	5.18	3.07	21.63	13.84	17.94	4.5	9.51	20.67	17.03	5.97	26.59	8.66
Turbidity (NTU)	--	8.9	86.1	37.1	40.7	190.0	1.1	30.5	0.0	32.0	32.0	1.6	43.4	19.1	20.5
Water Level (ft BGS)	--	5.62	4.90	3.00	6.18	5.99	6.31	6.38	5.75	4.64	5.23	6.44	5.25	4.80	3.49

Bold highlighted values exceed the NYSDEC AGWQS.

Well was sampled during the baseline sampling event.

Well was sampled during this semiannual reporting period.

AGWQS = NYSDEC Class GA Ambient Groundwater Quality Standards.

BGS = Below ground surface.

FD = Field duplicate.

mS = MilliSiemens.

NA = Not analyzed.

NTU = Nephelometric turbidity unit.

NYSDEC = New York State Department of Environmental Conservation.

S.U. = Standard unit.

Qualifiers:

J = Estimated concentration.

U = Undetected.

NYSDEC 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1, June (last amended June 2004).

Table 3-2. May 2016 through June 2019 Monitoring Results (continued)

Well Identifier	NYSDEC AGWQS (1998, last amended June 2004)	6MW-23	6MW-23	6MW-24	6MW-24	6MW-24	6MW-24	6MW-24	6MW-24	6MW-24	6MW-24	6MW-24	6MW-24	6MW-24
Sample Identifier		6MW-2310	6MW-2311	6MW-2401	6MW-2402	6MW-2403	6MW-2404	6MW-2405	6MW-2406	6MW-2407	6MW-2408	6MW-2409	6MW-2410	6MW-2411
Date		03/06/19	06/05/19	05/12/16	10/11/16	01/09/17	04/12/17	07/21/17	10/17/17	03/28/18	08/15/18	11/28/18	03/06/19	06/06/19
Groundwater Sample Type		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Volatile Organic Compounds (µg/L)														
Tetrachloroethene	5	2.5 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5 U	0.40 U	2.5 U	2.5 U
Trichloroethene	5	2.5 U	2.5 U	**5.9**	4.9 J	3.2 J	4.6 J	**6.9**	1.6 J	**6.3**	**7.4**	**5.2**	1.3 J	1.8 J
cis-1,2-Dichloroethene	5	1.7 J	3.0 J	4.8 J	**13**	3.6 J	3 J	4.7 J	3.7 J	2.2 J	**6.3**	3.9	3.7 J	3.3 J
Vinyl Chloride	2	2.0 U	1.8 J	1.0 U	**4.8 J**	1.6 J	0.52 J	1.3 J	**9.1**	1.0 U	2.5 U	0.46 J	2.0 U	**2.3 J**
General Chemistry (mg/L)														
Total Organic Carbon	--	3.8	3.4	5.3	12	9.4	6.9	5.9	6.9	4.1	8.3	5.1	4.1	4.5
Field Measurements														
Dissolved Oxygen (mg/L)	--	2.82	2.45	7.59	0.00	8.40	4.74	5.21	0.78	3.14	0.02	0.88	2.43	10.30
Oxidation-Reduction Potential (mV)	--	-61	-298	237	-285	-125	-42	-250	-68	17	-140	56	-30	-211
pH (S.U.)	--	5.86	9.38	7.24	6.91	7.15	6.85	6.83	7.06	7.3	6.19	6.30	6.18	9.30
Specific Conductance (mS/cm)	--	0.608	0.844	1.260	0.965	1.400	1.420	1.310	0.337	1.150	1.140	1.360	1.070	1.050
Temperature (°C)	--	4.69	14.49	9.54	15.57	4.6	9.59	20.80	16.84	7.73	25.48	8.25	3.00	13.15
Turbidity (NTU)	--	36.5	252.0	1.3	5.6	0.0	6.4	41.2	0.0	6.5	14.1	3.2	17.1	162.0
Water Level (ft BGS)	--	6.00	5.72	7.82	7.39	6.74	6.40	6.52	7.88	6.30	6.00	3.83	7.20	6.94

Bold highlighted values exceed the NYSDEC AGWQS.

Well was sampled during the baseline sampling event.

Well was sampled during this semiannual reporting period.

AGWQS = NYSDEC Class GA Ambient Groundwater Quality Standards.

BGS = Below ground surface.

FD = Field duplicate.

mS = MilliSiemens.

NA = Not analyzed.

NTU = Nephelometric turbidity unit.

NYSDEC = New York State Department of Environmental Conservation.

S.U. = Standard unit.

Qualifiers:

J = Estimated concentration.

U = Undetected.

NYSDEC 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1, June (last amended June 2004).

Table 3-2. May 2016 through June 2019 Monitoring Results (continued)

Well Identifier	NYSDEC AGWQS (1998, last amended June 2004)	6MW-25	6MW-25	6MW-25	6MW-25	6MW-25	6MW-25	6MW-25	6MW-25	6MW-25	6MW-25	6MW-25	6MW-26	6MW-26	6MW-26
Sample Identifier		6MW-2501	6MW-2502	6MW-2503	6MW-2504	6MW-2505	6MW-2506	6MW-2507	6MW-2508	6MW-2509	6MW-2510	6MW-2511	6MW-2601	6MW-2602	6MW-2603
Date		05/11/16	10/11/16	01/09/17	04/12/17	07/21/17	10/17/17	03/28/18	08/15/18	11/28/18	03/06/19	06/05/19	05/11/16	10/11/16	01/09/17
Groundwater Sample Type		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Volatile Organic Compounds (µg/L)															
Tetrachloroethene	5	**20**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	2.5 U	0.40 U	2.5 U	2.5 U	1.2 J	1.0 U	1.0 U
Trichloroethene	5	**5.8**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.2 J	2.5 U	0.40 U	2.5 U	2.5 U	1.1 J	0.32 J	1.0 U
cis-1,2-Dichloroethene	5	**58**	0.7 J	1.5 J	1.6 J	**5.8**	2.6 J	3.8 J	3.5 J	4.0	2.5 U	**6.1**	**6.6**	2.6 J	2.5 J
Vinyl Chloride	2	**21**	1.0 U	1.0 U	1.4 J	**66**	**14 J**	**15**	**3.6 J**	**4.6**	2.0 U	**15**	1.0 U	1.0 U	1.0 U
General Chemistry (mg/L)															
Total Organic Carbon	--	2.3	110	5.1	4.6	4.4	4.1	6.5	40.0	4.8	11.0	5.6	2.6	70	6.1
Field Measurements															
Dissolved Oxygen (mg/L)	--	3.41	0.00	6.37	6.83	5.12	0.45	0.46	0.02	0.51	2.18	1.20	3.77	0.00	7.01
Oxidation-Reduction Potential (mV)	--	12	-356	-110	-84	-252	-53	-137	-238	24	-87	-252	43	-201	-130
pH (S.U.)	--	6.87	6.59	7.11	6.61	6.79	6.76	7.08	6.14	5.94	5.87	8.46	7.01	6.67	7.15
Specific Conductance (mS/cm)	--	1.920	1.770	0.348	0.179	1.220	0.336	0.790	0.591	0.488	0.750	1.000	1.430	1.900	1.700
Temperature (°C)	--	14.49	20.37	4.1	10.71	22.16	18.84	7.08	27.73	7.31	4.56	14.25	13.73	18.31	4.2
Turbidity (NTU)	--	1.9	5.4	0.0	76.1	54.1	0.0	6.5	6.7	8.2	32.1	17.8	1.4	0.0	0.0
Water Level (ft BGS)	--	4.13	4.19	3.50	2.51	3.11	4.22	3.10	2.60	1.51	4.50	3.53	4.97	5.09	4.45

Bold highlighted values exceed the NYSDEC AGWQS.

Well was sampled during the baseline sampling event.

Well was sampled during this semiannual reporting period.

AGWQS = NYSDEC Class GA Ambient Groundwater Quality Standards.

BGS = Below ground surface.

FD = Field duplicate.

mS = MilliSiemens.

NA = Not analyzed.

NTU = Nephelometric turbidity unit.

NYSDEC = New York State Department of Environmental Conservation.

S.U. = Standard unit.

Qualifiers:

J = Estimated concentration.

U = Undetected.

NYSDEC 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1, June (last amended June 2004).

Table 3-2. May 2016 through June 2019 Monitoring Results (continued)

Well Identifier	AGWQS	6MW-26	6MW-26	6MW-26	6MW-26	6MW-26	6MW-26	6MW-26	6MW-26
Sample Identifier		6MW-2604	6MW-2605	6MW-2606	6MW-2607	6MW-2608	6MW-2609	6MW-2610	6MW-2611
Date		04/12/17	07/21/17	10/17/17	03/28/18	08/15/18	11/28/18	03/06/19	06/05/19
ple Type		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Volatile Organic Compounds (µg/L)									
Tetrachloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	2.5 U	0.63 J	2.5 U	2.5 U
Trichloroethene	5	0.33 J	0.6 J	1.0 UJ	1.0 U	2.5 U	0.51 J	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	1.8 J	2.4 J	2.3 J	1.0 J	2.0 J	2.3	0.94 J	1.6 J
Vinyl Chloride	2	0.88 J	1.8 J	**2.6 J**	0.43 J	2.5 U	0.83 J	2.0 U	1.7 J
General Chemistry (mg/L)									
Total Organic Carbon	--	3.5	5.4	4.1	3.4	12.0	3.8	3.5	4.6
Field Measurements									
Dissolved Oxygen (mg/L)	--	5.20	8.46	0.70	0.11	0.05	0.42	2.31	1.05
Oxidation-Reduction Potential (mV)	--	-208	-228	-67	-106	-138	39	-72	-89
pH (S.U.)	--	6.71	6.68	6.79	7.11	6.4	6.00	5.87	5.81
Specific Conductance (mS/cm)	--	1.250	1.370	0.359	1.010	1.040	0.955	0.525	0.883
Temperature (°C)	--	11.29	21.07	19.79	7.96	30.22	7.9	3.85	15.26
Turbidity (NTU)	--	24.1	62.0	0.0	7.4	25.1	47.7	8.3	32.2
Water Level (ft BGS)	--	3.31	3.96	5.08	3.97	3.44	2.26	4.58	4.38

Bold highlighted values exceed the NYSDEC AGWQS.

Well was sampled during the baseline sampling event.

Well was sampled during this semiannual reporting period.

AGWQS = NYSDEC Class GA Ambient Groundwater Quality Standards.

BGS = Below ground surface.

FD = Field duplicate.

mS = MilliSiemens.

NA = Not analyzed.

NTU = Nephelometric turbidity unit.

NYSDEC = New York State Department of Environmental Conservation.

S.U. = Standard unit.

Qualifiers:

J = Estimated concentration.

U = Undetected.

NYSDEC 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1, June (last amended June 2004).

COCs

PCE was not detected in any of the six wells.

TCE was detected in one of the six wells at an estimated concentration of 1.3J µg/L at well 6MW-24. The detected concentration at 6MW-24 was below the NYSDEC groundwater standard of 5 µg/L.

cis-1,2-DCE was detected in four of the six wells at concentrations ranging from an estimated 0.92J µg/L at well 6MW-20 to an estimated 3.7J µg/L at well 6MW-24. None of the six wells had detected concentrations above the NYSDEC groundwater standard of 5 µg/L.

VC was not detected in any of the six wells.

TOC

TOC measurements provide an estimate of the nutrients available to support microbial activity. TOC was detected at concentrations ranging from 3.5 to 33 mg/L, with the highest concentration observed in well 6MW-22. TOC concentrations at all wells except 6MW-22 are below the 20- to 50-mg/L optimal range recommended to sustain the biodegradation process.

Field Parameters

DO is a measure of oxygen dissolved in a solution. Concentrations equal to 1 mg/L or less indicate an environment conducive to anaerobic conditions. DO concentrations during the March 2019 event ranged from 2.18 to 8.34 mg/L. None of the six wells had DO concentrations less than 1 mg/L, indicating conditions were not ideal for anaerobic dechlorination.

ORP is a measure of electron activity and an indicator of the relative tendency of a solution to accept or transfer electrons. ORP measurements ranged from -87 to -30 mV. None of the six wells had levels less than -100 mV, indicating conditions were not ideal for anaerobic dechlorination.

The pH measurements ranged from 5.27 to 6.18 standard units (S.U.). None of the wells were within the optimal range of 6.5 to 8.5 S.U. for anaerobic dechlorination, but some were close to the lower end of the range.

Specific conductivity indicates the ability of a solution to conduct electric current and may be correlated to the total dissolved solids present in the solution. This value typically increases when an amendment solution containing a significant amount of one or more ionic species is injected into the aquifer. Specific conductivity values ranged from 0.218 to 1.070 mS/cm. Overall, there has been a negligible change in conductivity since the May 2016 baseline monitoring event.

Turbidity is the cloudiness or haziness of a fluid due to the presence of suspended particles. The final turbidity readings ranged from 8.3 to 45.2 nephelometric turbidity units (NTUs). Overall, turbidity has increased since the prior monitoring event, indicating the presence of amendment solution when compared to the May 2016 baseline monitoring event.

3.2.2 Eleventh Monitoring Event

The eleventh monitoring event was conducted on June 5 and 6, 2019, approximately 14 months after the most recent bioremediation injection (April 2018). Groundwater samples were collected from six monitoring wells (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26).

COCs

PCE was not detected in any of the six wells.

TCE was detected in one of the six wells at an estimated concentration of 1.8J µg/L at well 6MW-24. The concentration detected at 6MW-24 was below the NYSDEC groundwater standard of 5 µg/L.

cis-1,2-DCE was detected in all six wells at concentrations ranging from an estimated 0.80J µg/L at well 6MW-22 to 6.1 µg/L at well 6MW-25. Only the concentration detected at 6MW-25 was above the NYSDEC groundwater standard of 5 µg/L.

VC was detected in five of the six wells at concentrations ranging from an estimated 1.6J µg/L at well 6MW-20 to 15 µg/L at well 6MW-25. Two of the six wells (6MW-24 and 6MW-25) had detected concentrations above the NYSDEC groundwater standard of 2 µg/L.

TOC

TOC was detected at concentrations ranging from 3.4 to 61 mg/L, with the highest concentration observed in well 6MW-22. TOC concentrations at all monitoring wells, with the exception of well 6MW-22, are below the 20- to 50-mg/L optimal range recommended to sustain the biodegradation process.

Field Parameters

DO concentrations during the June 2019 event ranged from 1.05 to 10.3 mg/L. None of the six wells had DO concentrations less than 1 mg/L, the level indicating conditions are conducive to anaerobic dechlorination.

ORP ranged from -329 to -89 mV. Five of the six wells had values less than -100 mV, indicating conditions were conducive to anaerobic dechlorination at these locations.

pH ranged from 5.81 to 10.11 S.U. Two of the six wells (6MW-20 and 6MW-25) were within the optimal range of 6.5 to 8.5 S.U. for anaerobic dechlorination. All six wells had pH values higher than historical sampling events, indicating a potential issue with the water quality meter's pH sensor.

Specific conductivity values ranged from 0.788 to 1.050 mS/cm. Overall, there has been a negligible change in conductivity since the May 2016 baseline monitoring event.

Turbidity readings ranged from 17.8 to 252 NTUs, indicating the presence of amendment solution when compared to the May 2016 baseline monitoring event.

3.3 DISCUSSION

The results of the tenth and eleventh groundwater monitoring events indicate significant contaminant reduction since the baseline event (May 2016), and the desired progression of degradation from parent to daughter compounds is evident in all six monitoring wells. Decreased PCE; TCE; cis-1,2-DCE; and VC concentrations point to ongoing anaerobic reductive dechlorination.

In March 2019, there were no detections above criteria, compared to the combined PCE; TCE; cis-1,2-DCE; and VC concentrations above NYSDEC criteria baseline total of 111.3 µg/L.

Results from the June 2019 event showed COCs above NYSDEC groundwater standards in two of the six wells with combined PCE; TCE; cis-1,2-DCE; and VC concentrations above NYSDEC criteria equal to

14.4 µg/L compared to the baseline total of 111.3 µg/L. Well 6MW-25 showed moderate rebounding when compared to the past three monitoring events after the April 2018 supplemental injections. Rebounding at 6MW-25 after both the July 2016 and April 2018 injection events has been a trend, but in each event, the rebounding contaminant levels have been significantly lower. Contaminant concentrations in the June 2019 event increased in all six monitoring wells since the March 2019 monitoring event.

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4.0 CONCLUSIONS

As agreed upon by ANG and NYSDEC, and detailed in the RAWP (Leidos 2016), RA-O activities were conducted at SANGB. The tenth and eleventh groundwater monitoring events were conducted in March and June 2019, respectively, to monitor the performance of the April 2018 supplemental injections. Six wells at Site 6 (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26) were sampled for VOCs and TOC. The results of both groundwater monitoring events indicate overall significant changes since the first, or baseline, event (May 2016), and the desired progression of degradation from parent to daughter compounds is evident in all six monitoring wells. Decreased PCE; TCE; and cis-1,2-DCE concentrations, and fluctuations in VC concentrations, point to ongoing anaerobic reductive dechlorination. Results from the March 2019 event showed no COCs in any of the six wells above NYSDEC groundwater criteria. This is the only event where no wells had any COCs above criteria. Results from the June 2019 event showed COCs above NYSDEC groundwater standards in only two of the six wells. cis-1,2-DCE slightly exceeded the NYSDEC standard in well 6MW-25; and VC exceeded the NYSDEC standard in wells 6MW-24 and 6MW-25.

The supplemental injection event will continue to be evaluated in quarterly groundwater events conducted in accordance with the RAWP (Leidos 2016). The next two monitoring events are scheduled for September and December 2019 and will be reported in the next performance monitoring report scheduled to be issued in early 2020.

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5.0 REFERENCES

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Leidos 2016. *Work Plan for Remedial Action-Operations, Monitoring, and Project Closeout at IRP Site 6 (Suspected Spill Area)*, Final, January.

Leidos 2017a. *Remedial Action Completion Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, Stratton Air National Guard Base (SANGB), Scotia, New York*, Final, February.

Leidos 2017b. *First Semiannual Monitoring Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, New York Air National Guard, Stratton Air National Guard Base, Scotia, New York*, Final, June.

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Leidos 2018. *Third Semiannual Monitoring Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, New York Air National Guard, Stratton Air National Guard Base, Scotia, New York*, Final, August.

Leidos 2019. *Fourth Semiannual Monitoring Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, New York Air National Guard, Stratton Air National Guard Base, Scotia, New York*, Final, May.

Lu, X., J.T. Wilson, and D.H. Kampbell 2006. "Relationship between Dehalococcoides DNA in ground water and rates of reductive dechlorination at field scale." *Water Research* **40**:3131-3140.

NYSDEC (New York State Department of Environmental Conservation) 1998. *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1, June (last amended June 2004).

NYSDEC 2015. Regarding Air National Guard Stratton, Site No.: 447022, Approval letter of the Remedial Action Completion Report for Soil at Sites 3 and 6, dated March.

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APPENDIX A – PURGE LOGS

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MARCH 2019

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GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 3/6/19 TIME: 9 : 20

WELL ID NUMBER: 6MW20 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 8.8 ft. to 18.8 ft. (Estimated)

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

WATER QUALITY METER ID: Horiba U-5000

WATER LEVEL INDICATOR ID: Geo-tech WLM #6205001B

PUMP ID: Geo-pump # 900-1260

TURBIDITY ID: Horiba U-5000

PID ID: N/A

DEPTH TO WATER: 5.40 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 8.8 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 11.5 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

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

PURGE START TIME: 9:22 PURGE END TIME: 9:55

TOTAL VOLUME PURGED: 1.65 Liters

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

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

A-5

GROUND WATER MICRO PURGE LOG

WELL ID: 6 MW-20

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

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
9:22	-	150	30	4.29	6.48	0693 ms/cm or S/m	9.85	108	5.42	
9:25	.15	150	-41	4.46	6.36	0685 ms/cm or S/m	9.82	75.4	5.48	
9:28	.3	150	-24	3.79	6.30	0686 ms/cm or S/m	9.76	100	5.48	
9:31	.45	150	-36	3.52	6.26	0688 ms/cm or S/m	9.61	104	5.52	
9:34	.6	150	-49	3.13	6.23	0696 ms/cm or S/m	9.45	95.5	5.55	
9:37	.75	150	-56	3.37	6.21	0704 ms/cm or S/m	9.07	89.7	5.57	
9:40	.9	150	-57	3.43	6.20	0707 ms/cm or S/m	8.99	92.6	5.60	
9:43	1.05	150	-60	3.76	6.15	0726 ms/cm or S/m	8.59	67.1	5.62	
9:46	1.2	150	-62	3.77	6.14	0725 ms/cm or S/m	8.51	71.6	5.64	
9:49	1.35	150	-63	3.15	6.11	0733 ms/cm or S/m	8.36	61.2	5.67	
9:52	1.5	150	-63	3.12	6.11	0733 ms/cm or S/m	8.36	45.7	5.69	
9:55	1.65	150	-63	3.09	6.11	0733 ms/cm or S/m	8.34	45.2	5.71	
		✓	✓	✓	✓	✓ ms/cm or S/m	✓	—	—	sampled @ 10:00
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

A-6

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 3/6/19 TIME: 11 : 30

WELL ID NUMBER: 6MW22 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4 ft. to 9 ft.

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

WATER QUALITY METER ID: Horiba U-5000

WATER LEVEL INDICATOR ID: Geo-tech WLM #8205062

PUMP ID: Geo-pump #900-1280

TURBIDITY ID: Horiba U-5000

PID ID: N/A

DEPTH TO WATER: 6.16 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7.5 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

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

PURGE START TIME: 11:36 PURGE END TIME: 12:06

TOTAL VOLUME PURGED: 1.5 Liters

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

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

A-7

GROUND WATER MICRO PURGE LOG

WELL ID: 6MW-22

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

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
11:36	—	150	-69	4.38	5.70	0.266 ms/cm or S/m	3.66	898	6.71	
11:39	.15	150	-56	4.62	5.34	0.231 ms/cm or S/m	3.34	727	6.73	
11:42	.3	150	-57	4.60	5.28	0.209 ms/cm or S/m	3.29	488	6.74	
11:45	.45	150	-54	4.54	5.28	0.192 ms/cm or S/m	3.24	253	6.77	
11:48	.6	150	-56	4.34	5.28	0.192 ms/cm or S/m	3.24	169	6.80	
11:51	.75	150	-53	4.18	5.28	0.198 ms/cm or S/m	3.26	157	6.82	
11:54	.9	150	-50	3.77	5.26	0.214 ms/cm or S/m	3.27	115	6.85	
11:57	1.05	150	-50	3.50	5.27	0.219 ms/cm or S/m	3.29	99.1	6.86	
12:00	1.2	150	-50	3.17	5.27	0.216 ms/cm or S/m	3.32	42.5	6.86	
12:03	1.35	150	-50	3.12	5.27	0.218 ms/cm or S/m	3.33	41.2	6.88	
12:06	1.5	150	-50	3.07	5.27	0.218 ms/cm or S/m	3.35	40.7	6.90	
		✓	✓	✓	✓	ms/cm or S/m	✓	—	—	stopped @ 12:10
						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: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 3/6/19 TIME: 12:45

WELL ID NUMBER: 6MW23 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4 ft. to 9 ft.

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

WATER QUALITY METER ID: Horiba U-5000

WATER LEVEL INDICATOR ID: Geo-tech WLM #82050012

PUMP ID: Geo-pump #900-1280

TURBIDITY ID: Horiba U-5000

PID ID: N/A

DEPTH TO WATER: 6.00 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7.5 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

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

PURGE START TIME: 12:46 PURGE END TIME: 1:18

TOTAL VOLUME PURGED: 1.5 Liters

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

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

A-9

GROUND WATER MICRO PURGE LOG

WELL ID: 6MW-23

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

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
12:46	—	150	-34	4.57	5.85	0614 ms/cm or S/m	3.15	210	6.02	
12:51	.15	150	-42	4.73	5.88	0.633 ms/cm or S/m	3.04	177	6.02	
12:54	.3	150	-49	4.92	5.91	0633 ms/cm or S/m	2.93	152	6.02	
12:57	.45	150	-53	4.86	5.95	0630 ms/cm or S/m	2.99	136	6.02	
1:00	.6	150	-56	4.80	5.93	0622 ms/cm or S/m	2.90	129	6.03	
1:03	.75	150	-57	4.70	5.91	0617 ms/cm or S/m	2.89	108	6.03	
1:06	.9	150	-59	4.66	5.89	0611 ms/cm or S/m	2.87	104	6.03	
1:09	1.05	150	-60	4.86	5.87	0610 ms/cm or S/m	2.81	98.7	6.03	
1:12	1.2	150	-61	4.86	5.86	0.608 ms/cm or S/m	2.81	37.7	6.03	
1:15	1.35	150	-61	4.78	5.86	0.606 ms/cm or S/m	2.82	38.9	6.03	
1:18	1.5	150	-61	4.69	5.86	0608 ms/cm or S/m	2.82	36.5	6.03	
		✓	✓	✓	✓	✓ ms/cm or S/m	✓	✓	✓	sampled @ 13:25
						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)

A-10

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 3/6/14 TIME: 1 : 45

WELL ID NUMBER: 6MW24 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4.0 ft. to 9.0 ft.

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

WATER QUALITY METER ID: Horiba U-5000

WATER LEVEL INDICATOR ID: Eco-Tech #8205001Z

PUMP ID: Eco-pump #900-1280

TURBIDITY ID: Horiba U-5000

PID ID: N/A

DEPTH TO WATER: 7.20 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

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

PURGE START TIME: 1:48 PURGE END TIME: 2:09

TOTAL VOLUME PURGED: 1.05 Liters

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

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

A-11

GROUND WATER MICRO PURGE LOG

WELL ID: 6 MW-24

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

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
1:48	—	150	-16	4.57	6.14	1.02 ms/cm or S/m	2.22	315	7.25	
1:51	.15	150	-21	3.92	6.17	1.04 ms/cm or S/m	2.26	289	7.27	
1:54	.3	150	-21	3.16	6.19	1.07 ms/cm or S/m	2.36	74.0	7.29	
1:57	.45	150	-21	2.45	6.17	1.07 ms/cm or S/m	2.48	47.8	7.30	
2:00	.6	150	-22	3.01	6.17	1.07 ms/cm or S/m	2.44	35.8	7.31	
2:03	.75	150	-29	3.04	6.18	1.07 ms/cm or S/m	2.44	17.6	7.33	
2:06	.9	150	-30	3.02	6.18	1.07 ms/cm or S/m	2.44	17.3	7.34	
2:09	1.05	150	-30	3.00	6.18	1.07 ms/cm or S/m	2.43	17.1	7.35	
		✓	✓	✓	✓	✓ ms/cm or S/m	✓	✓	.	Sampled @ 14:15
						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				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

A-12

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 3/6/14 TIME: 4 : 50

WELL ID NUMBER: 6MW25 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4 ft. to 9 ft.

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

WATER QUALITY METER ID: Horiba U-5000

WATER LEVEL INDICATOR ID: Geo-tech WLM #820500012

PUMP ID: Geo-pump #900-1280

TURBIDITY ID: Horiba U-5000

PID ID: N/A

DEPTH TO WATER: 4.50 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

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

PURGE START TIME: 4:56 PURGE END TIME: 5:23

TOTAL VOLUME PURGED: 1.35 Liters

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

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

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GROUND WATER MICRO PURGE LOG

WELL ID: GMW-25

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

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
4:56	—	150	-58	4.99	5.80	0.634 ms/cm or S/m	2.14	629	4.50	
4:59	.15	150	-63	5.07	5.79	0.629 ms/cm or S/m	2.10	415	4.52	
5:02	.3	150	-70	5.02	5.80	0.630 ms/cm or S/m	2.09	355	4.54	
5:05	.45	150	-75	4.98	5.81	0.635 ms/cm or S/m	2.10	307	4.55	
5:08	.6	150	-77	4.99	5.81	0.640 ms/cm or S/m	2.10	231	4.56	
5:11	.75	150	-82	4.79	5.84	0.686 ms/cm or S/m	2.15	123	4.59	
5:14	.9	150	-84	4.65	5.85	0.717 ms/cm or S/m	2.17	85.9	4.61	
5:17	1.05	150	-87	4.63	5.87	0.750 ms/cm or S/m	2.17	32.7	4.62	
5:20	1.2	150	-87	4.58	5.87	0.750 ms/cm or S/m	2.17	32.5	4.63	
5:23	1.35	150	-87	4.56	5.87	0.750 ms/cm or S/m	2.18	32.1	4.65	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓	✓	sampled @ 7:35
						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: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 3/6/19 TIME: 3 : 30

WELL ID NUMBER: 6MW26 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4.0 ft. to 9.0 ft.

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

WATER QUALITY METER ID: Horiba U-5000

WATER LEVEL INDICATOR ID: Geo-Tech WLM #GZ65001Z

PUMP ID: Geo-pump #900-1280

TURBIDITY ID: Horiba U-5000

PID ID: N/A

DEPTH TO WATER: 4.56 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

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

PURGE START TIME: 3:34 PURGE END TIME: 4:01

TOTAL VOLUME PURGED: 1.35 2.4 GLS

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

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

A-15

GROUND WATER MICRO PURGE LOG

WELL ID: GMW-26

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

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
3:34	—	150	-69	6.60	5.96	0.669 ms/cm or S/m	1.22	146	4.63	
3:37	.15	150	-69	6.45	5.94	0.641 ms/cm or S/m	1.42	75.1	4.64	
3:40	.3	150	-70	5.87	5.88	0.572 ms/cm or S/m	1.95	19.3	4.67	
3:43	.45	150	-70	5.87	5.87	0.507 ms/cm or S/m	2.14	16.9	4.70	
3:46	.6	150	-70	5.29	5.86	0.466 ms/cm or S/m	2.16	11.3	4.72	
3:49	.75	150	-70	4.90	5.92	0.530 ms/cm or S/m	2.19	9.2	4.74	
3:52	.9	150	-72	4.79	5.90	0.534 ms/cm or S/m	2.20	8.7	4.76	
3:55	1.05	150	-72	3.91	5.87	0.525 ms/cm or S/m	2.32	8.6	4.77	
3:58	1.2	150	-72	3.87	5.87	0.625 ms/cm or S/m	2.34	6.1	4.76	
4:01	1.35	150	-72	3.85	5.87	0.525 ms/cm or S/m	2.31	6.3	4.79	
		✓	✓	✓	✓	✓ ms/cm or S/m	✓	✓	✓	sampled @ 16:10
						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)

JUNE 2019

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GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 6/5/14 TIME: 12 : 00

WELL ID NUMBER: 6MW20 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 8.8 ft. to 18.8 ft. (Estimated)

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

WATER QUALITY METER ID: Horiba #1

WATER LEVEL INDICATOR ID: Geotech #1

PUMP ID: GeoPump #1

TURBIDITY ID: Horiba #1

PID ID: N/A

DEPTH TO WATER: 6.46 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 8.8 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 14 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

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

PURGE START TIME: 12:00 PURGE END TIME: 12:35

TOTAL VOLUME PURGED: 3 3m

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

RECORDED BY: [signature] (Signature)

QA CHECKED BY: [signature] (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: 6 MW-20

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	gallons ~~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
1200	0	150	-184	22.40	10.26	1.05 (ms/cm) or S/m	3.45	42.0	6.46	
1205	0.5	150	-156	14.82	8.90	0.983 ms/cm or S/m	3.80	45.3	7.45	
1210	1.0	150	-150	14.75	8.30	0.852 ms/cm or S/m	3.56	52.3	9.21	
1215	1.5	150	-170	14.37	8.36	0.944 ms/cm or S/m	2.45	96.0	9.00	
1220	2.0	150	-184	14.57	8.46	0.981 ms/cm or S/m	2.04	88.6	8.80	
1225	2.25	150	-143	14.57	8.46	0.987 ms/cm or S/m	1.96	86.7	8.84	
1230	2.75	150	-200	14.48	8.44	1.01 ms/cm or S/m	1.72	90.6	8.84	
1235	3.0	150	-198	18.97	8.23	1.04 ms/cm or S/m	1.62	90.5	8.43	
						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				

RECORDED BY: R Strauch (Signature)

QA CHECKED BY: (Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 06/05/14 TIME: 15 : 50

WELL ID NUMBER: 6MW22 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4 ft. to 9 ft.

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

WATER QUALITY METER ID: Hurriby #1

WATER LEVEL INDICATOR ID: Geo tech #1

PUMP ID: Geo Pump #1

TURBIDITY ID: ~~Geo~~ Horiba #1

PID ID: N/A

DEPTH TO WATER: 5.99 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

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

PURGE START TIME: 1555 PURGE END TIME: ~~1430 DAT~~ 1630

TOTAL VOLUME PURGED: 2.5 gal ~~1.5 gal~~

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: 6 MW-22

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	Gallons ~~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
1555	0	150	-237	21.48	8.90	0.656 ms/cm or S/m	1.23	0.0	6.23	
1600	0.5	150	-274	21.41	9.32	0.672 ms/cm or S/m	0.80	332	6.62	
1605	1.0	150	-264	21.54	8.84	0.646 ms/cm or S/m	0.99	314	6.85	
1610	1.25	150	-319	21.34	9.90	0.742 ms/cm or S/m	1.00	247	6.86	
1615	1.5	150	-338	21.65	10.14	0.780 ms/cm or S/m	1.31	219	6.86	
1620	1.0	150	-335	21.75	10.16	0.786 ms/cm or S/m	1.35	195	6.86	
1625	2.25	150	-333	21.60	10.09	0.784 ms/cm or S/m	1.29	198	6.84	
1630	2.5	150	-327	21.63	10.11	0.788 ms/cm or S/m	1.33	190	6.80	
						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)

A-22

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 06/05/14 TIME: 14 : 55

WELL ID NUMBER: 6MW23 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4 ft. to 9 ft.

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

WATER QUALITY METER ID: Horiba #1

WATER LEVEL INDICATOR ID: Geotech #1

PUMP ID: Geoprobe #1

TURBIDITY ID: Horiba #1

PID ID: N/A

DEPTH TO WATER: 5.72 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

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

PURGE START TIME: 1505 PURGE END TIME: 1535

TOTAL VOLUME PURGED: 2.75 gal 2.00 gal

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: 6 MW 23

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	gallons ~~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
1505	0	150	-254	14.87	9.56	0.798 ms/cm or S/m	2.93	0.0	5.72	
1510	0.5	150	-337	15.76	10.35	0.873 ms/cm or S/m	3.30	0.0	5.75	
1515	1.0	150	-341	14.80	10.21	0.851 ms/cm or S/m	3.17	819	5.75	
1520	1.5	150	-323	14.47	9.74	0.856 ms/cm or S/m	2.83	388	5.76	
1525	1.75	150	-308	14.57	9.48	0.849 ms/cm or S/m	2.56	255	5.75	
1530	2.25	150	-301	14.50	9.38	0.847 ms/cm or S/m	2.46	256	5.75	
1535	2.75	150	-298	14.49	9.38	0.644 ms/cm or S/m	2.45	252	5.75	
						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: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 06/06/14 TIME: 6 : 45

WELL ID NUMBER: 6MW24 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4.0 ft. to 9.0 ft.

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

WATER QUALITY METER ID: Horiba #1

WATER LEVEL INDICATOR ID: Geotech #1

PUMP ID: Geo Pump #1

TURBIDITY ID: Horiba #1

PID ID: N/A

DEPTH TO WATER: 6.94 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 8.50 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

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

PURGE START TIME: 6:50 PURGE END TIME: 7:10

TOTAL VOLUME PURGED: 1.25 gal

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

RECORDED BY: Ben Strand (Signature)

QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: GMW-24

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	~~LITERS~~ gallons 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
650	0	150	-165	12.14	9.92	0.957 ~~ms/cm~~ or S/m	8.83	264	6.94	
655	0.5	150	-182	12.70	9.35	1.02 ~~ms/cm~~ or S/m	3.30	168	7.21	
700	0.75	150	-205	13.82	9.36	1.02 ~~ms/cm~~ or S/m	10.44	161	7.40	
705	1.0	150	-210	13.105	9.33	1.06 ~~ms/cm~~ or S/m	10.28	167	7.55	
710	1.25	150	-211	13.15	9.30	1.05 ~~ms/cm~~ or S/m	10.30	162	7.85	
						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: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 06/05/19 TIME: 13 : 15

WELL ID NUMBER: 6MW25 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4 ft. to 9 ft.

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

WATER QUALITY METER ID: Horiba #1

WATER LEVEL INDICATOR ID: Geotech #1

PUMP ID: Geo Pump #1

TURBIDITY ID: Horiba #1

PID ID: N/A

DEPTH TO WATER: 3.53 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

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

PURGE START TIME: 1325 PURGE END TIME: 1355

TOTAL VOLUME PURGED: ~~475~~ 225 mL

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

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

A-27

GROUND WATER MICRO PURGE LOG

WELL ID: 6MW-25

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	gallons ~~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
1325	0	150	-239	16.78	8.74	0.445 (ms/cm) or S/m	1.42	472	3.53	
1330	0.25	150	-240	16.82	8.70	0.446 (ms/cm) or S/m	1.06	243	3.573	
1335	0.5	150	-219	17.08	8.10	0.503 (ms/cm) or S/m	1.24	55.8	3.60	
1340	0.75	150	-227	14.64	8.21	0.549 (ms/cm) or S/m	1.27	85.8	3.75	
1345	1.25	150	-246	14.33	8.42	0.910 (ms/cm) or S/m	1.25	58.7	3.75	
1350	1.75	150	-253	14.30	8.49	1.05 (ms/cm) or S/m	1.23	29.5	3.75	
1355	2.25	150	-252	14.25	8.46	1.00 (ms/cm) or S/m	1.20	17.8	3.75	
						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)

A-28

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 06/05/14 TIME: 14 : 15

WELL ID NUMBER: 6MW26 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4.0 ft. to 9.0 ft.

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

WATER QUALITY METER ID: Horiba #1

WATER LEVEL INDICATOR ID: Geo tech #1

PUMP ID: Geo Pump #1

TURBIDITY ID: Horiba #1

PID ID: N/A

DEPTH TO WATER: 4.38 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

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

PURGE START TIME: 1420 PURGE END TIME: 1440

TOTAL VOLUME PURGED: 1.5 gal

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

RECORDED BY: [signature] (Signature) QA CHECKED BY: [signature] (Signature)

A-29

GROUND WATER MICRO PURGE LOG

WELL ID: 6MW26

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	~~LITERS~~ gallons 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
1420	0	150	-101	16.00	6.56	0.967 ms/cm or S/m	1.74	0.0	4.38	
1425	0.25	150	-74	15.20	5.88	0.790 ms/cm or S/m	1.13	64.7	4.52	
1430	0.5	150	-81	15.05	5.85	0.797 ms/cm or S/m	1.12	63.2	4.53	
1435	0.0	150	-87	15.17	5.80	0.860 ms/cm or S/m	1.06	33.6	4.53	
1440	1.5	150	-89	15.26	5.81	0.843 ms/cm or S/m	1.05	32.2	4.53	
						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)

APPENDIX B – ANALYTICAL LABORATORY DATA VALIDATION PACKAGES AND FINAL REPORT – MARCH AND JUNE 2019

(FOR HARD COPY VERSIONS OF THIS REPORT, ALL OF APPENDIX B IS INCLUDED ON THE COMPLETE DOCUMENT COMPACT DISC)

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MARCH 2019

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LEIDOS
Laboratory Data Verification Checklist

Project: Stratton

SDG No: J120962

Analyte Group: Select VOCs
Sample Matrix: aqueous
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
Select VOCs include cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene, and Vinyl Chloride	
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: Joseph C Peters Date: 4/11/19

QA Review By: Joseph C Peters Date: 4/11/19

LEIDOS
Laboratory Data Package Detail Form

Project: Stratton

SDG No: J120962

Analyte Group: Select VOCs

** SEE ATTACHED

Field Sample ID	Lab ID #	Matrix	Analysis	Notes:

Comments:

Sample Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB - Site 6

TestAmerica Job ID: 280-120962-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-120962-1	6MW2010	Water	03/06/19 10:00	03/08/19 09:50
280-120962-2	6MW2010D	Water	03/06/19 10:00	03/08/19 09:50
280-120962-3	6MW2210	Water	03/06/19 12:10	03/08/19 09:50
280-120962-4	6MW2310	Water	03/06/19 13:25	03/08/19 09:50
280-120962-5	6MW2410	Water	03/06/19 14:15	03/08/19 09:50
280-120962-6	6MW2510	Water	03/06/19 17:30	03/08/19 09:50
280-120962-7	6MW2610	Water	03/06/19 16:10	03/08/19 09:50
280-120962-8	TB11	Water	03/06/19 16:15	03/08/19 09:50
280-120962-9	FB07	Water	03/06/19 16:20	03/08/19 09:50

LEIDOS
Organic Data Review Checklist

Project: Stratton

SDG No: J120962

Analysis: Select VOCs

Method: SW-8260B

Laboratory: TestAmerica

Matrix: Aqueous

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: DOD QSM and QAPP guidance

Select VOCs include cis-Dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride

No data validation qualifiers

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: Joseph C Peters Date: 4/10/19

QA Reviewed by: Joseph C Peters Date: 4/11/19

I. Case Narrative

Verify direct statements made within the Laboratory Case Narrative (note discrepancies).

Remarks: No discrepancies noted

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 dilutions or reanalysis required

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: None

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: _____

IV. System Monitoring Compounds (SMC) Recoveries (VOC, SVOC, Pesticides, PCBs)

List SMC compounds with unacceptable recoveries:

Note: SMC formerly known as surrogates.

Deviations: None. All surrogate recoveries were within criteria

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: _____

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: None. All criteria met

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: _____

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: None; MB free from contamination

Date:	Lab ID #	Fraction	Compound	Conc. (ppb)

Field QC blanks free from select VOCs

Associated Project Blanks (e.g., equipment rinsates, trip blanks, etc.)

Date	Lab ID #	Fraction	Compound	Conc. (ppb)

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: None

Compound	Maximum Conc. Detected, (ppb)	Action Level (ppb)	Samples Affected

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 Y
All compounds must have and RRF > 0.01, %RSD < 30, and %D < 25 RSD < 15; %D < 20

VOC - Date of initial calibration: 3/18/19
VOC - Date(s) of continuing calibration: 3/19/19
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: None; Select VOCs met all criteria

Compound	Date	RRF	%RSD	%D	Samples Affected

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? NA 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: _____

IX. Matrix Spike/Matrix Spike Duplicate Information

General MS/MSD Criteria:
percent recovery (%R)
relative percent difference (RPD)

VOC	SVOC	Pest	PCB
70-130	45-135	40-140	40-140
<30	<50	<50	<50

Project Sample(s) Spiked: 6MW201

Deviations: None; Select VOCs met recovery and RPD criteria

Compound	%R	%R Limits	RPD	RPD Limits	Samples Affected

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 180-420035/4 LCSD 180-420035/5

Deviations: None

Compound	Date	%R	Samples Affected/Qualifiers Applied

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:

Client Sample ID: 6MW2010
Date Collected: 03/06/19 10:00
Date Received: 03/08/19 09:50

Lab Sample ID: 280-120962-1
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 13:20	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 13:20	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 13:20	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 13:20	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 13:20	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 13:20	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 13:20	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 13:20	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 13:20	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 13:20	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 13:20	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 13:20	1
1,2-Dichloroethane	2.5	U	5.0	2.5	0.60	ug/L		03/19/19 13:20	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 13:20	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 13:20	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 13:20	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 13:20	1
2-Butanone (MEK)	**15**	**J**	20	5.0	1.5	ug/L		03/19/19 13:20	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 13:20	1
2-Hexanone	5.0	U	20	5.0	3.6	ug/L		03/19/19 13:20	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 13:20	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 13:20	1
Acetone	10	U	20	10	3.2	ug/L		03/19/19 13:20	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 13:20	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 13:20	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 13:20	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 13:20	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 13:20	1
Bromomethane	5.0	U	10	5.0	2.7	ug/L		03/19/19 13:20	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 13:20	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 13:20	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 13:20	1
Chloroethane	2.5	U J1	10	2.5	1.0	ug/L		03/19/19 13:20	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 13:20	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 13:20	1
cis-1,2-Dichloroethene	**0.92**	**J** J	5.0	2.5	0.76	ug/L		03/19/19 13:20	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 13:20	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 13:20	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 13:20	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 13:20	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 13:20	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 13:20	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 13:20	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 13:20	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 13:20	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 13:20	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 13:20	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 13:20	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 13:20	1

Client Sample ID: 6MW2010 — Lab Sample ID: 280-120962-1

Date Collected: 03/06/19 10:00 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 13:20	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 13:20	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 13:20	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 13:20	1
Tetrachloroethene	2.5	U U	5.0	2.5	0.60	ug/L		03/19/19 13:20	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 13:20	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 13:20	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 13:20	1
Trichloroethene	2.5	U U	5.0	2.5	0.58	ug/L		03/19/19 13:20	1
Trichlorofluoromethane	2.5	U J1	5.0	2.5	1.0	ug/L		03/19/19 13:20	1
Vinyl chloride	2.0	U U	5.0	2.0	1.9	ug/L		03/19/19 13:20	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*		*03/19/19 13:20*	*1*
4-Bromofluorobenzene (Surr)	*110*		*85 - 114*		*03/19/19 13:20*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*03/19/19 13:20*	*1*
Toluene-d8 (Surr)	*104*		*89 - 112*		*03/19/19 13:20*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.7**		1.0	0.50	0.16	mg/L		03/12/19 18:18	1

Client Sample ID: 6MW2010D — Lab Sample ID: 280-120962-2

Date Collected: 03/06/19 10:00 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 14:59	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 14:59	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 14:59	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 14:59	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 14:59	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 14:59	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 14:59	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 14:59	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 14:59	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 14:59	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 14:59	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 14:59	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 14:59	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 14:59	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 14:59	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 14:59	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 14:59	1
2-Butanone (MEK)	**22**		20	5.0	1.5	ug/L		03/19/19 14:59	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 14:59	1
2-Hexanone	5.0	U	20	5.0	3.6	ug/L		03/19/19 14:59	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 14:59	1

Client Sample ID: 6MW2010D
Date Collected: 03/06/19 10:00
Date Received: 03/08/19 09:50

Lab Sample ID: 280-120962-2
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 14:59	1
Acetone	10	U	20	10	3.2	ug/L		03/19/19 14:59	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 14:59	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 14:59	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 14:59	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 14:59	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 14:59	1
Bromomethane	5.0	U	10	5.0	2.7	ug/L		03/19/19 14:59	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 14:59	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 14:59	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 14:59	1
Chloroethane	2.5	U	10	2.5	1.0	ug/L		03/19/19 14:59	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 14:59	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 14:59	1
cis-1,2-Dichloroethene	**0.93**	**J** J	5.0	2.5	0.76	ug/L		03/19/19 14:59	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 14:59	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 14:59	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 14:59	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 14:59	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 14:59	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 14:59	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 14:59	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 14:59	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 14:59	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 14:59	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 14:59	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 14:59	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 14:59	1
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 14:59	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 14:59	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 14:59	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 14:59	1
Tetrachloroethene	2.5	U U	5.0	2.5	0.60	ug/L		03/19/19 14:59	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 14:59	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 14:59	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 14:59	1
Trichloroethene	2.5	U U	5.0	2.5	0.58	ug/L		03/19/19 14:59	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 14:59	1
Vinyl chloride	2.0	U U	5.0	2.0	1.9	ug/L		03/19/19 14:59	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*81 - 118*		*03/19/19 14:59*	*1*
4-Bromofluorobenzene (Surr)	*114*		*85 - 114*		*03/19/19 14:59*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*03/19/19 14:59*	*1*
Toluene-d8 (Surr)	*106*		*89 - 112*		*03/19/19 14:59*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.8**		1.0	0.50	0.16	mg/L		03/12/19 18:35	1

Client Sample ID: 6MW2210 — Lab Sample ID: 280-120962-3

Date Collected: 03/06/19 12:10 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 15:24	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 15:24	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 15:24	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 15:24	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 15:24	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 15:24	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 15:24	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 15:24	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 15:24	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:24	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 15:24	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 15:24	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 15:24	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 15:24	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 15:24	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 15:24	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 15:24	1
2-Butanone (MEK)	**21**		20	5.0	1.5	ug/L		03/19/19 15:24	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 15:24	1
2-Hexanone	5.0	U	20	5.0	3.6	ug/L		03/19/19 15:24	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:24	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 15:24	1
Acetone	**25**		20	10	3.2	ug/L		03/19/19 15:24	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 15:24	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 15:24	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 15:24	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 15:24	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 15:24	1
Bromomethane	5.0	U	10	5.0	2.7	ug/L		03/19/19 15:24	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 15:24	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 15:24	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 15:24	1
Chloroethane	2.5	U M	10	2.5	1.0	ug/L		03/19/19 15:24	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 15:24	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 15:24	1
cis-1,2-Dichloroethene	2.5	U U	5.0	2.5	0.76	ug/L		03/19/19 15:24	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 15:24	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 15:24	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 15:24	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 15:24	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 15:24	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 15:24	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 15:24	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 15:24	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 15:24	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 15:24	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 15:24	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 15:24	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 15:24	1

Client Sample ID: 6MW2210 — Lab Sample ID: 280-120962-3

Date Collected: 03/06/19 12:10 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 15:24	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:24	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 15:24	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:24	1
Tetrachloroethene	2.5	U U	5.0	2.5	0.60	ug/L		03/19/19 15:24	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 15:24	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 15:24	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 15:24	1
Trichloroethene	2.5	U M U	5.0	2.5	0.58	ug/L		03/19/19 15:24	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 15:24	1
Vinyl chloride	2.0	U U	5.0	2.0	1.9	ug/L		03/19/19 15:24	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*		*03/19/19 15:24*	*1*
4-Bromofluorobenzene (Surr)	*112*		*85 - 114*		*03/19/19 15:24*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*03/19/19 15:24*	*1*
Toluene-d8 (Surr)	*105*		*89 - 112*		*03/19/19 15:24*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**33**		1.0	0.50	0.16	mg/L		03/12/19 18:50	1

Client Sample ID: 6MW2310 — Lab Sample ID: 280-120962-4

Date Collected: 03/06/19 13:25 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 15:48	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 15:48	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 15:48	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 15:48	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 15:48	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 15:48	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 15:48	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 15:48	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 15:48	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:48	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 15:48	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 15:48	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 15:48	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 15:48	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 15:48	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 15:48	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 15:48	1
2-Butanone (MEK)	**24**		20	5.0	1.5	ug/L		03/19/19 15:48	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 15:48	1
2-Hexanone	5.0	U M	20	5.0	3.6	ug/L		03/19/19 15:48	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:48	1

Client Sample ID: 6MW2310 — Lab Sample ID: 280-120962-4

Date Collected: 03/06/19 13:25 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 15:48	1
Acetone	**4.9**	**J**	20	10	3.2	ug/L		03/19/19 15:48	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 15:48	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 15:48	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 15:48	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 15:48	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 15:48	1
Bromomethane	5.0	U	10	5.0	2.7	ug/L		03/19/19 15:48	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 15:48	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 15:48	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 15:48	1
Chloroethane	2.5	U	10	2.5	1.0	ug/L		03/19/19 15:48	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 15:48	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 15:48	1
cis-1,2-Dichloroethene	**1.7**	**J** J	5.0	2.5	0.76	ug/L		03/19/19 15:48	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 15:48	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 15:48	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 15:48	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 15:48	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 15:48	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 15:48	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 15:48	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 15:48	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 15:48	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 15:48	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 15:48	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 15:48	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 15:48	1
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 15:48	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:48	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 15:48	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:48	1
Tetrachloroethene	2.5	U U	5.0	2.5	0.60	ug/L		03/19/19 15:48	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 15:48	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 15:48	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 15:48	1
Trichloroethene	2.5	U U	5.0	2.5	0.58	ug/L		03/19/19 15:48	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 15:48	1
Vinyl chloride	2.0	U U	5.0	2.0	1.9	ug/L		03/19/19 15:48	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*		*03/19/19 15:48*	*1*
4-Bromofluorobenzene (Surr)	*114*		*85 - 114*		*03/19/19 15:48*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*03/19/19 15:48*	*1*
Toluene-d8 (Surr)	*105*		*89 - 112*		*03/19/19 15:48*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.8**		1.0	0.50	0.16	mg/L		03/12/19 19:04	1

Client Sample ID: 6MW2410
Date Collected: 03/06/19 14:15
Date Received: 03/08/19 09:50

Lab Sample ID: 280-120962-5
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 16:13	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 16:13	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 16:13	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 16:13	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 16:13	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 16:13	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 16:13	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 16:13	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 16:13	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:13	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 16:13	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 16:13	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 16:13	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 16:13	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 16:13	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 16:13	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 16:13	1
2-Butanone (MEK)	**23**		20	5.0	1.5	ug/L		03/19/19 16:13	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 16:13	1
2-Hexanone	5.0	U M	20	5.0	3.6	ug/L		03/19/19 16:13	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:13	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 16:13	1
Acetone	**4.8**	**J**	20	10	3.2	ug/L		03/19/19 16:13	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 16:13	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 16:13	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 16:13	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 16:13	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 16:13	1
Bromomethane	5.0	U	10	5.0	2.7	ug/L		03/19/19 16:13	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 16:13	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 16:13	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 16:13	1
Chloroethane	2.5	U	10	2.5	1.0	ug/L		03/19/19 16:13	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 16:13	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 16:13	1
cis-1,2-Dichloroethene	**3.7**	**J** J	5.0	2.5	0.76	ug/L		03/19/19 16:13	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 16:13	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 16:13	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 16:13	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 16:13	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 16:13	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 16:13	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 16:13	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 16:13	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 16:13	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 16:13	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 16:13	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 16:13	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 16:13	1

Client Sample ID: 6MW2410 — Lab Sample ID: 280-120962-5

Date Collected: 03/06/19 14:15 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 16:13	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:13	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 16:13	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:13	1
Tetrachloroethene	2.5	U U	5.0	2.5	0.60	ug/L		03/19/19 16:13	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 16:13	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 16:13	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 16:13	1
Trichloroethene	**1.3**	**J** J	5.0	2.5	0.58	ug/L		03/19/19 16:13	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 16:13	1
Vinyl chloride	2.0	U U	5.0	2.0	1.9	ug/L		03/19/19 16:13	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*03/19/19 16:13*	*1*
4-Bromofluorobenzene (Surr)	*112*		*85 - 114*		*03/19/19 16:13*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*03/19/19 16:13*	*1*
Toluene-d8 (Surr)	*106*		*89 - 112*		*03/19/19 16:13*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**4.1**		1.0	0.50	0.16	mg/L		03/12/19 19:48	1

Client Sample ID: 6MW2510 — Lab Sample ID: 280-120962-6

Date Collected: 03/06/19 17:30 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 16:38	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 16:38	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 16:38	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 16:38	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 16:38	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 16:38	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 16:38	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 16:38	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 16:38	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:38	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 16:38	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 16:38	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 16:38	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 16:38	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 16:38	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 16:38	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 16:38	1
2-Butanone (MEK)	**20**		20	5.0	1.5	ug/L		03/19/19 16:38	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 16:38	1
2-Hexanone	5.0	U	20	5.0	3.6	ug/L		03/19/19 16:38	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:38	1

Client Sample ID: 6MW2510 — Lab Sample ID: 280-120962-6

Date Collected: 03/06/19 17:30 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 16:38	1
Acetone	**6.1**	**J**	20	10	3.2	ug/L		03/19/19 16:38	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 16:38	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 16:38	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 16:38	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 16:38	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 16:38	1
Bromomethane	5.0	U	10	5.0	2.7	ug/L		03/19/19 16:38	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 16:38	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 16:38	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 16:38	1
Chloroethane	2.5	U M	10	2.5	1.0	ug/L		03/19/19 16:38	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 16:38	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 16:38	1
cis-1,2-Dichloroethene	2.5	U U	5.0	2.5	0.76	ug/L		03/19/19 16:38	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 16:38	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 16:38	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 16:38	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 16:38	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 16:38	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 16:38	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 16:38	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 16:38	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 16:38	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 16:38	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 16:38	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 16:38	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 16:38	1
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 16:38	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:38	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 16:38	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:38	1
Tetrachloroethene	2.5	U U	5.0	2.5	0.60	ug/L		03/19/19 16:38	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 16:38	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 16:38	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 16:38	1
Trichloroethene	2.5	U U	5.0	2.5	0.58	ug/L		03/19/19 16:38	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 16:38	1
Vinyl chloride	2.0	U U	5.0	2.0	1.9	ug/L		03/19/19 16:38	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*		*03/19/19 16:38*	*1*
4-Bromofluorobenzene (Surr)	*113*		*85 - 114*		*03/19/19 16:38*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*03/19/19 16:38*	*1*
Toluene-d8 (Surr)	*106*		*89 - 112*		*03/19/19 16:38*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**11**		1.0	0.50	0.16	mg/L		03/12/19 20:05	1

Client Sample ID: 6MW2610
Date Collected: 03/06/19 16:10
Date Received: 03/08/19 09:50

Lab Sample ID: 280-120962-7
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 17:02	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:02	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 17:02	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 17:02	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:02	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 17:02	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 17:02	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 17:02	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 17:02	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:02	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 17:02	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:02	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 17:02	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 17:02	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 17:02	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:02	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 17:02	1
2-Butanone (MEK)	**19**	**J**	20	5.0	1.5	ug/L		03/19/19 17:02	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 17:02	1
2-Hexanone	5.0	U	20	5.0	3.6	ug/L		03/19/19 17:02	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:02	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 17:02	1
Acetone	**4.7**	**J**	20	10	3.2	ug/L		03/19/19 17:02	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 17:02	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 17:02	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 17:02	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 17:02	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 17:02	1
Bromomethane	5.0	U M	10	5.0	2.7	ug/L		03/19/19 17:02	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 17:02	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 17:02	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 17:02	1
Chloroethane	2.5	U	10	2.5	1.0	ug/L		03/19/19 17:02	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 17:02	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 17:02	1
cis-1,2-Dichloroethene	**0.94**	**J** J	5.0	2.5	0.76	ug/L		03/19/19 17:02	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 17:02	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:02	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 17:02	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 17:02	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 17:02	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 17:02	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 17:02	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 17:02	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 17:02	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 17:02	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 17:02	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 17:02	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 17:02	1

Client Sample ID: 6MW2610 — Lab Sample ID: 280-120962-7

Date Collected: 03/06/19 16:10 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 17:02	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:02	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 17:02	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:02	1
Tetrachloroethene	2.5	U U	5.0	2.5	0.60	ug/L		03/19/19 17:02	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 17:02	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 17:02	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 17:02	1
Trichloroethene	2.5	U U	5.0	2.5	0.58	ug/L		03/19/19 17:02	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 17:02	1
Vinyl chloride	2.0	U M U	5.0	2.0	1.9	ug/L		03/19/19 17:02	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*		*03/19/19 17:02*	*1*
4-Bromofluorobenzene (Surr)	*110*		*85 - 114*		*03/19/19 17:02*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*03/19/19 17:02*	*1*
Toluene-d8 (Surr)	*105*		*89 - 112*		*03/19/19 17:02*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.5**		1.0	0.50	0.16	mg/L		03/12/19 20:22	1

Client Sample ID: TB11 — Lab Sample ID: 280-120962-8

Date Collected: 03/06/19 16:15 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 17:27	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:27	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 17:27	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 17:27	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:27	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 17:27	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 17:27	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 17:27	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 17:27	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:27	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 17:27	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:27	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 17:27	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 17:27	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 17:27	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:27	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 17:27	1
2-Butanone (MEK)	**18**	**J**	20	5.0	1.5	ug/L		03/19/19 17:27	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 17:27	1
2-Hexanone	5.0	U	20	5.0	3.6	ug/L		03/19/19 17:27	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:27	1

Client Sample ID: TB11 — Lab Sample ID: 280-120962-8

Date Collected: 03/06/19 16:15 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 17:27	1
Acetone	10	U	20	10	3.2	ug/L		03/19/19 17:27	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 17:27	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 17:27	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 17:27	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 17:27	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 17:27	1
Bromomethane	5.0	U M	10	5.0	2.7	ug/L		03/19/19 17:27	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 17:27	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 17:27	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 17:27	1
Chloroethane	2.5	U	10	2.5	1.0	ug/L		03/19/19 17:27	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 17:27	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 17:27	1
cis-1,2-Dichloroethene	2.5	U U	5.0	2.5	0.76	ug/L		03/19/19 17:27	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 17:27	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:27	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 17:27	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 17:27	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 17:27	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 17:27	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 17:27	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 17:27	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 17:27	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 17:27	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 17:27	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 17:27	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 17:27	1
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 17:27	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:27	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 17:27	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:27	1
Tetrachloroethene	2.5	U U	5.0	2.5	0.60	ug/L		03/19/19 17:27	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 17:27	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 17:27	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 17:27	1
Trichloroethene	2.5	U U	5.0	2.5	0.58	ug/L		03/19/19 17:27	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 17:27	1
Vinyl chloride	2.0	U U	5.0	2.0	1.9	ug/L		03/19/19 17:27	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*		*03/19/19 17:27*	*1*
4-Bromofluorobenzene (Surr)	*113*		*85 - 114*		*03/19/19 17:27*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*03/19/19 17:27*	*1*
Toluene-d8 (Surr)	*107*		*89 - 112*		*03/19/19 17:27*	*1*

Client Sample ID: FB07
Date Collected: 03/06/19 16:20
Date Received: 03/08/19 09:50

Lab Sample ID: 280-120962-9
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 17:52	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:52	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 17:52	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 17:52	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:52	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 17:52	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 17:52	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 17:52	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 17:52	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:52	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 17:52	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:52	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 17:52	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 17:52	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 17:52	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:52	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 17:52	1
2-Butanone (MEK)	**21**		20	5.0	1.5	ug/L		03/19/19 17:52	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 17:52	1
2-Hexanone	5.0	U M	20	5.0	3.6	ug/L		03/19/19 17:52	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:52	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 17:52	1
Acetone	**5.0**	**J**	20	10	3.2	ug/L		03/19/19 17:52	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 17:52	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 17:52	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 17:52	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 17:52	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 17:52	1
Bromomethane	5.0	U M	10	5.0	2.7	ug/L		03/19/19 17:52	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 17:52	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 17:52	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 17:52	1
Chloroethane	2.5	U	10	2.5	1.0	ug/L		03/19/19 17:52	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 17:52	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 17:52	1
cis-1,2-Dichloroethene	2.5	U U	5.0	2.5	0.76	ug/L		03/19/19 17:52	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 17:52	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:52	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 17:52	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 17:52	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 17:52	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 17:52	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 17:52	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 17:52	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 17:52	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 17:52	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 17:52	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 17:52	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 17:52	1

Client Sample ID: FB07 Lab Sample ID: 280-120962-9

Date Collected: 03/06/19 16:20 **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 17:52	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:52	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 17:52	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:52	1
Tetrachloroethene	2.5	U U	5.0	2.5	0.60	ug/L		03/19/19 17:52	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 17:52	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 17:52	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 17:52	1
Trichloroethene	2.5	U U	5.0	2.5	0.58	ug/L		03/19/19 17:52	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 17:52	1
Vinyl chloride	2.0	U U	5.0	2.0	1.9	ug/L		03/19/19 17:52	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*03/19/19 17:52*	*1*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*		*03/19/19 17:52*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*03/19/19 17:52*	*1*
Toluene-d8 (Surr)	*104*		*89 - 112*		*03/19/19 17:52*	*1*

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ANALYTICAL REPORT

Job Number: 280-120962-1

Job Description: Stratton ANGB - Site 6

For:
Leidos, Inc.
301 Laboratory Road
Leidos SSC-AP
LOC #47, MS 2113-03
Oak Ridge, TN 37830

Attention: Mr. Michael Poligone



Approved for release.
Donna R Rydberg
Senior Project Manager
4/26/2019 11:37 AM

Donna R Rydberg, Senior Project Manager
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04/26/2019
Revision: 1

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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Definitions/Glossary

Client: Leidos, Inc. Job ID: 280-120962-1
Project/Site: Stratton ANGB - Site 6

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Leidos, Inc.

Project: Stratton ANGB - Site 6

Report Number: 280-120962-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

REVISED REPORT

The attached report was revised for method 8260B for vinyl chloride. The LOD for vinyl chloride was set as 2.5ug/L based on MDL updates performed in 2018. This is outside the clients QAPP requirements for this analyte. New MDL studies were performed in 2019 and the QA department was able to go back and change the LOD to 2.0 ug/L to match what the client needs. The samples in this report were run in 2019.

RECEIPT

The samples were received on 3/8/2019 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.7º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received. Samples TB11 (280-120962-8) and FB07 (280-120962-9) did not have an analysis checked on the COC. These samples were logged per the container analysis.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples 6MW2010 (280-120962-1), 6MW2010D (280-120962-2), 6MW2210 (280-120962-3), 6MW2310 (280-120962-4), 6MW2410 (280-120962-5), 6MW2510 (280-120962-6), 6MW2610 (280-120962-7), TB11 (280-120962-8) and FB07 (280-120962-9) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with 8260C_DOD5. The samples were analyzed on 03/19/2019.

Chloroethane failed the recovery criteria low for the MS/MSD of sample 6MW2010 (280-120962-1) in batch 160-420035. Trichlorofluoromethane exceeded the RPD limit. Refer to the QC report for details. Sample matrix interference is suspected because the associated laboratory control sample (LCS/LCSD) recoveries and RPD were within acceptance limits, providing evidence that operating procedures were in control.

The following compound did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with 160-420035: 2-Butanone and Acetone. A low level CCV was analyzed at the reporting limit (1ug/L) and the affected analyte was detected. Target analytes recovering above the reporting limit have been qualified and reported. (CCV 160-420035/3) and (CCVC 160-420035/21)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON

Samples 6MW2010 (280-120962-1), 6MW2010D (280-120962-2), 6MW2210 (280-120962-3), 6MW2310 (280-120962-4), 6MW2410 (280-120962-5), 6MW2510 (280-120962-6) and 6MW2610 (280-120962-7) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 03/12/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Leidos, Inc.
Job ID: 280-120962-1
Project/Site: Stratton ANGB - Site 6

Client Sample ID: 6MW2010
Lab Sample ID: 280-120962-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	15	J	20	5.0	1.5	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	0.92	J	5.0	2.5	0.76	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	3.7		1.0	0.50	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2010D
Lab Sample ID: 280-120962-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	22		20	5.0	1.5	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	0.93	J	5.0	2.5	0.76	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	3.8		1.0	0.50	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2210
Lab Sample ID: 280-120962-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	21		20	5.0	1.5	ug/L	1		8260C DOD	Total/NA
Acetone	25		20	10	3.2	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	33		1.0	0.50	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2310
Lab Sample ID: 280-120962-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	24		20	5.0	1.5	ug/L	1		8260C DOD	Total/NA
Acetone	4.9	J	20	10	3.2	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	1.7	J	5.0	2.5	0.76	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	3.8		1.0	0.50	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2410
Lab Sample ID: 280-120962-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	23		20	5.0	1.5	ug/L	1		8260C DOD	Total/NA
Acetone	4.8	J	20	10	3.2	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	3.7	J	5.0	2.5	0.76	ug/L	1		8260C DOD	Total/NA
Trichloroethene	1.3	J	5.0	2.5	0.58	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	4.1		1.0	0.50	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2510
Lab Sample ID: 280-120962-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	20		20	5.0	1.5	ug/L	1		8260C DOD	Total/NA
Acetone	6.1	J	20	10	3.2	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	11		1.0	0.50	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2610
Lab Sample ID: 280-120962-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	19	J	20	5.0	1.5	ug/L	1		8260C DOD	Total/NA
Acetone	4.7	J	20	10	3.2	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	0.94	J	5.0	2.5	0.76	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	3.5		1.0	0.50	0.16	mg/L	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Leidos, Inc.
Job ID: 280-120962-1
Project/Site: Stratton ANGB - Site 6

Client Sample ID: TB11
Lab Sample ID: 280-120962-8

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	18	J	20	5.0	1.5	ug/L	1		8260C DOD	Total/NA

Client Sample ID: FB07
Lab Sample ID: 280-120962-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	21		20	5.0	1.5	ug/L	1		8260C DOD	Total/NA
Acetone	5.0	J	20	10	3.2	ug/L	1		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 6MW2010 — Lab Sample ID: 280-120962-1

Date Collected: 03/06/19 10:00 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 13:20	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 13:20	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 13:20	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 13:20	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 13:20	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 13:20	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 13:20	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 13:20	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 13:20	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 13:20	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 13:20	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 13:20	1
1,2-Dichloroethane	2.5	U	5.0	2.5	0.60	ug/L		03/19/19 13:20	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 13:20	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 13:20	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 13:20	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 13:20	1
2-Butanone (MEK)	**15**	**J**	20	5.0	1.5	ug/L		03/19/19 13:20	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 13:20	1
2-Hexanone	5.0	U	20	5.0	3.6	ug/L		03/19/19 13:20	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 13:20	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 13:20	1
Acetone	10	U	20	10	3.2	ug/L		03/19/19 13:20	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 13:20	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 13:20	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 13:20	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 13:20	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 13:20	1
Bromomethane	5.0	U	10	5.0	2.7	ug/L		03/19/19 13:20	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 13:20	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 13:20	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 13:20	1
Chloroethane	2.5	U J1	10	2.5	1.0	ug/L		03/19/19 13:20	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 13:20	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 13:20	1
cis-1,2-Dichloroethene	**0.92**	**J**	5.0	2.5	0.76	ug/L		03/19/19 13:20	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 13:20	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 13:20	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 13:20	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 13:20	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 13:20	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 13:20	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 13:20	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 13:20	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 13:20	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 13:20	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 13:20	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 13:20	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 13:20	1

Client Sample ID: 6MW2010 — Lab Sample ID: 280-120962-1

Date Collected: 03/06/19 10:00 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 13:20	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 13:20	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 13:20	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 13:20	1
Tetrachloroethene	2.5	U	5.0	2.5	0.60	ug/L		03/19/19 13:20	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 13:20	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 13:20	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 13:20	1
Trichloroethene	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 13:20	1
Trichlorofluoromethane	2.5	U J1	5.0	2.5	1.0	ug/L		03/19/19 13:20	1
Vinyl chloride	2.0	U	5.0	2.0	1.9	ug/L		03/19/19 13:20	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*		*03/19/19 13:20*	*1*
4-Bromofluorobenzene (Surr)	*110*		*85 - 114*		*03/19/19 13:20*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*03/19/19 13:20*	*1*
Toluene-d8 (Surr)	*104*		*89 - 112*		*03/19/19 13:20*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.7**		1.0	0.50	0.16	mg/L		03/12/19 18:18	1

Client Sample ID: 6MW2010D — Lab Sample ID: 280-120962-2

Date Collected: 03/06/19 10:00 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 14:59	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 14:59	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 14:59	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 14:59	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 14:59	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 14:59	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 14:59	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 14:59	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 14:59	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 14:59	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 14:59	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 14:59	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 14:59	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 14:59	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 14:59	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 14:59	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 14:59	1
2-Butanone (MEK)	**22**		20	5.0	1.5	ug/L		03/19/19 14:59	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 14:59	1
2-Hexanone	5.0	U	20	5.0	3.6	ug/L		03/19/19 14:59	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 14:59	1

Client Sample ID: 6MW2010D
Date Collected: 03/06/19 10:00
Date Received: 03/08/19 09:50

Lab Sample ID: 280-120962-2
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 14:59	1
Acetone	10	U	20	10	3.2	ug/L		03/19/19 14:59	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 14:59	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 14:59	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 14:59	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 14:59	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 14:59	1
Bromomethane	5.0	U	10	5.0	2.7	ug/L		03/19/19 14:59	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 14:59	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 14:59	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 14:59	1
Chloroethane	2.5	U	10	2.5	1.0	ug/L		03/19/19 14:59	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 14:59	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 14:59	1
cis-1,2-Dichloroethene	**0.93**	**J**	5.0	2.5	0.76	ug/L		03/19/19 14:59	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 14:59	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 14:59	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 14:59	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 14:59	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 14:59	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 14:59	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 14:59	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 14:59	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 14:59	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 14:59	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 14:59	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 14:59	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 14:59	1
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 14:59	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 14:59	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 14:59	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 14:59	1
Tetrachloroethene	2.5	U	5.0	2.5	0.60	ug/L		03/19/19 14:59	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 14:59	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 14:59	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 14:59	1
Trichloroethene	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 14:59	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 14:59	1
Vinyl chloride	2.0	U	5.0	2.0	1.9	ug/L		03/19/19 14:59	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*81 - 118*		*03/19/19 14:59*	*1*
4-Bromofluorobenzene (Surr)	*114*		*85 - 114*		*03/19/19 14:59*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*03/19/19 14:59*	*1*
Toluene-d8 (Surr)	*106*		*89 - 112*		*03/19/19 14:59*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.8**		1.0	0.50	0.16	mg/L		03/12/19 18:35	1

Client Sample ID: 6MW2210 — Lab Sample ID: 280-120962-3

Date Collected: 03/06/19 12:10 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 15:24	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 15:24	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 15:24	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 15:24	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 15:24	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 15:24	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 15:24	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 15:24	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 15:24	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:24	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 15:24	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 15:24	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 15:24	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 15:24	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 15:24	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 15:24	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 15:24	1
2-Butanone (MEK)	**21**		20	5.0	1.5	ug/L		03/19/19 15:24	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 15:24	1
2-Hexanone	5.0	U	20	5.0	3.6	ug/L		03/19/19 15:24	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:24	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 15:24	1
Acetone	**25**		20	10	3.2	ug/L		03/19/19 15:24	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 15:24	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 15:24	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 15:24	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 15:24	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 15:24	1
Bromomethane	5.0	U	10	5.0	2.7	ug/L		03/19/19 15:24	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 15:24	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 15:24	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 15:24	1
Chloroethane	2.5	U M	10	2.5	1.0	ug/L		03/19/19 15:24	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 15:24	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 15:24	1
cis-1,2-Dichloroethene	2.5	U	5.0	2.5	0.76	ug/L		03/19/19 15:24	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 15:24	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 15:24	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 15:24	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 15:24	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 15:24	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 15:24	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 15:24	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 15:24	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 15:24	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 15:24	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 15:24	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 15:24	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 15:24	1

Client Sample ID: 6MW2210 — Lab Sample ID: 280-120962-3

Date Collected: 03/06/19 12:10 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 15:24	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:24	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 15:24	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:24	1
Tetrachloroethene	2.5	U	5.0	2.5	0.60	ug/L		03/19/19 15:24	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 15:24	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 15:24	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 15:24	1
Trichloroethene	2.5	U M	5.0	2.5	0.58	ug/L		03/19/19 15:24	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 15:24	1
Vinyl chloride	2.0	U	5.0	2.0	1.9	ug/L		03/19/19 15:24	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*		*03/19/19 15:24*	*1*
4-Bromofluorobenzene (Surr)	*112*		*85 - 114*		*03/19/19 15:24*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*03/19/19 15:24*	*1*
Toluene-d8 (Surr)	*105*		*89 - 112*		*03/19/19 15:24*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**33**		1.0	0.50	0.16	mg/L		03/12/19 18:50	1

Client Sample ID: 6MW2310 — Lab Sample ID: 280-120962-4

Date Collected: 03/06/19 13:25 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 15:48	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 15:48	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 15:48	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 15:48	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 15:48	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 15:48	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 15:48	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 15:48	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 15:48	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:48	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 15:48	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 15:48	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 15:48	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 15:48	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 15:48	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 15:48	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 15:48	1
2-Butanone (MEK)	**24**		20	5.0	1.5	ug/L		03/19/19 15:48	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 15:48	1
2-Hexanone	5.0	U M	20	5.0	3.6	ug/L		03/19/19 15:48	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:48	1

Client Sample ID: 6MW2310 — Lab Sample ID: 280-120962-4

Date Collected: 03/06/19 13:25 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 15:48	1
Acetone	**4.9**	**J**	20	10	3.2	ug/L		03/19/19 15:48	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 15:48	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 15:48	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 15:48	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 15:48	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 15:48	1
Bromomethane	5.0	U	10	5.0	2.7	ug/L		03/19/19 15:48	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 15:48	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 15:48	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 15:48	1
Chloroethane	2.5	U	10	2.5	1.0	ug/L		03/19/19 15:48	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 15:48	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 15:48	1
cis-1,2-Dichloroethene	**1.7**	**J**	5.0	2.5	0.76	ug/L		03/19/19 15:48	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 15:48	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 15:48	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 15:48	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 15:48	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 15:48	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 15:48	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 15:48	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 15:48	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 15:48	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 15:48	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 15:48	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 15:48	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 15:48	1
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 15:48	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:48	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 15:48	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 15:48	1
Tetrachloroethene	2.5	U	5.0	2.5	0.60	ug/L		03/19/19 15:48	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 15:48	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 15:48	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 15:48	1
Trichloroethene	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 15:48	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 15:48	1
Vinyl chloride	2.0	U	5.0	2.0	1.9	ug/L		03/19/19 15:48	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*		*03/19/19 15:48*	*1*
4-Bromofluorobenzene (Surr)	*114*		*85 - 114*		*03/19/19 15:48*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*03/19/19 15:48*	*1*
Toluene-d8 (Surr)	*105*		*89 - 112*		*03/19/19 15:48*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.8**		1.0	0.50	0.16	mg/L		03/12/19 19:04	1

Client Sample ID: 6MW2410
Date Collected: 03/06/19 14:15
Date Received: 03/08/19 09:50

Lab Sample ID: 280-120962-5
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 16:13	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 16:13	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 16:13	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 16:13	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 16:13	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 16:13	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 16:13	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 16:13	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 16:13	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:13	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 16:13	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 16:13	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 16:13	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 16:13	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 16:13	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 16:13	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 16:13	1
2-Butanone (MEK)	**23**		20	5.0	1.5	ug/L		03/19/19 16:13	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 16:13	1
2-Hexanone	5.0	U M	20	5.0	3.6	ug/L		03/19/19 16:13	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:13	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 16:13	1
Acetone	**4.8**	**J**	20	10	3.2	ug/L		03/19/19 16:13	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 16:13	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 16:13	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 16:13	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 16:13	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 16:13	1
Bromomethane	5.0	U	10	5.0	2.7	ug/L		03/19/19 16:13	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 16:13	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 16:13	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 16:13	1
Chloroethane	2.5	U	10	2.5	1.0	ug/L		03/19/19 16:13	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 16:13	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 16:13	1
cis-1,2-Dichloroethene	**3.7**	**J**	5.0	2.5	0.76	ug/L		03/19/19 16:13	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 16:13	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 16:13	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 16:13	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 16:13	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 16:13	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 16:13	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 16:13	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 16:13	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 16:13	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 16:13	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 16:13	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 16:13	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 16:13	1

Client Sample ID: 6MW2410 — Lab Sample ID: 280-120962-5

Date Collected: 03/06/19 14:15 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 16:13	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:13	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 16:13	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:13	1
Tetrachloroethene	2.5	U	5.0	2.5	0.60	ug/L		03/19/19 16:13	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 16:13	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 16:13	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 16:13	1
Trichloroethene	**1.3**	**J**	5.0	2.5	0.58	ug/L		03/19/19 16:13	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 16:13	1
Vinyl chloride	2.0	U	5.0	2.0	1.9	ug/L		03/19/19 16:13	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*03/19/19 16:13*	*1*
4-Bromofluorobenzene (Surr)	*112*		*85 - 114*		*03/19/19 16:13*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*03/19/19 16:13*	*1*
Toluene-d8 (Surr)	*106*		*89 - 112*		*03/19/19 16:13*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**4.1**		1.0	0.50	0.16	mg/L		03/12/19 19:48	1

Client Sample ID: 6MW2510 — Lab Sample ID: 280-120962-6

Date Collected: 03/06/19 17:30 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 16:38	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 16:38	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 16:38	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 16:38	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 16:38	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 16:38	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 16:38	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 16:38	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 16:38	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:38	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 16:38	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 16:38	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 16:38	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 16:38	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 16:38	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 16:38	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 16:38	1
2-Butanone (MEK)	**20**		20	5.0	1.5	ug/L		03/19/19 16:38	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 16:38	1
2-Hexanone	5.0	U	20	5.0	3.6	ug/L		03/19/19 16:38	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:38	1

Client Sample ID: 6MW2510 — Lab Sample ID: 280-120962-6

Date Collected: 03/06/19 17:30 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 16:38	1
Acetone	**6.1**	**J**	20	10	3.2	ug/L		03/19/19 16:38	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 16:38	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 16:38	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 16:38	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 16:38	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 16:38	1
Bromomethane	5.0	U	10	5.0	2.7	ug/L		03/19/19 16:38	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 16:38	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 16:38	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 16:38	1
Chloroethane	2.5	U M	10	2.5	1.0	ug/L		03/19/19 16:38	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 16:38	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 16:38	1
cis-1,2-Dichloroethene	2.5	U	5.0	2.5	0.76	ug/L		03/19/19 16:38	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 16:38	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 16:38	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 16:38	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 16:38	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 16:38	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 16:38	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 16:38	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 16:38	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 16:38	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 16:38	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 16:38	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 16:38	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 16:38	1
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 16:38	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:38	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 16:38	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 16:38	1
Tetrachloroethene	2.5	U	5.0	2.5	0.60	ug/L		03/19/19 16:38	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 16:38	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 16:38	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 16:38	1
Trichloroethene	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 16:38	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 16:38	1
Vinyl chloride	2.0	U	5.0	2.0	1.9	ug/L		03/19/19 16:38	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*		*03/19/19 16:38*	*1*
4-Bromofluorobenzene (Surr)	*113*		*85 - 114*		*03/19/19 16:38*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*03/19/19 16:38*	*1*
Toluene-d8 (Surr)	*106*		*89 - 112*		*03/19/19 16:38*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**11**		1.0	0.50	0.16	mg/L		03/12/19 20:05	1

Client Sample ID: 6MW2610
Date Collected: 03/06/19 16:10
Date Received: 03/08/19 09:50

Lab Sample ID: 280-120962-7
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 17:02	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:02	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 17:02	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 17:02	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:02	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 17:02	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 17:02	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 17:02	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 17:02	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:02	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 17:02	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:02	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 17:02	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 17:02	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 17:02	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:02	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 17:02	1
2-Butanone (MEK)	**19**	**J**	20	5.0	1.5	ug/L		03/19/19 17:02	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 17:02	1
2-Hexanone	5.0	U	20	5.0	3.6	ug/L		03/19/19 17:02	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:02	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 17:02	1
Acetone	**4.7**	**J**	20	10	3.2	ug/L		03/19/19 17:02	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 17:02	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 17:02	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 17:02	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 17:02	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 17:02	1
Bromomethane	5.0	U M	10	5.0	2.7	ug/L		03/19/19 17:02	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 17:02	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 17:02	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 17:02	1
Chloroethane	2.5	U	10	2.5	1.0	ug/L		03/19/19 17:02	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 17:02	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 17:02	1
cis-1,2-Dichloroethene	**0.94**	**J**	5.0	2.5	0.76	ug/L		03/19/19 17:02	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 17:02	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:02	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 17:02	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 17:02	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 17:02	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 17:02	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 17:02	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 17:02	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 17:02	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 17:02	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 17:02	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 17:02	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 17:02	1

Client Sample ID: 6MW2610 — Lab Sample ID: 280-120962-7

Date Collected: 03/06/19 16:10 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 17:02	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:02	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 17:02	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:02	1
Tetrachloroethene	2.5	U	5.0	2.5	0.60	ug/L		03/19/19 17:02	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 17:02	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 17:02	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 17:02	1
Trichloroethene	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:02	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 17:02	1
Vinyl chloride	2.0	U M	5.0	2.0	1.9	ug/L		03/19/19 17:02	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*		*03/19/19 17:02*	*1*
4-Bromofluorobenzene (Surr)	*110*		*85 - 114*		*03/19/19 17:02*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*03/19/19 17:02*	*1*
Toluene-d8 (Surr)	*105*		*89 - 112*		*03/19/19 17:02*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.5**		1.0	0.50	0.16	mg/L		03/12/19 20:22	1

Client Sample ID: TB11 — Lab Sample ID: 280-120962-8

Date Collected: 03/06/19 16:15 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 17:27	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:27	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 17:27	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 17:27	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:27	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 17:27	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 17:27	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 17:27	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 17:27	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:27	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 17:27	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:27	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 17:27	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 17:27	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 17:27	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:27	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 17:27	1
2-Butanone (MEK)	**18**	**J**	20	5.0	1.5	ug/L		03/19/19 17:27	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 17:27	1
2-Hexanone	5.0	U	20	5.0	3.6	ug/L		03/19/19 17:27	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:27	1

Client Sample ID: TB11 — Lab Sample ID: 280-120962-8

Date Collected: 03/06/19 16:15 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 17:27	1
Acetone	10	U	20	10	3.2	ug/L		03/19/19 17:27	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 17:27	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 17:27	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 17:27	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 17:27	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 17:27	1
Bromomethane	5.0	U M	10	5.0	2.7	ug/L		03/19/19 17:27	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 17:27	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 17:27	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 17:27	1
Chloroethane	2.5	U	10	2.5	1.0	ug/L		03/19/19 17:27	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 17:27	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 17:27	1
cis-1,2-Dichloroethene	2.5	U	5.0	2.5	0.76	ug/L		03/19/19 17:27	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 17:27	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:27	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 17:27	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 17:27	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 17:27	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 17:27	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 17:27	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 17:27	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 17:27	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 17:27	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 17:27	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 17:27	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 17:27	1
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 17:27	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:27	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 17:27	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:27	1
Tetrachloroethene	2.5	U	5.0	2.5	0.60	ug/L		03/19/19 17:27	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 17:27	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 17:27	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 17:27	1
Trichloroethene	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:27	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 17:27	1
Vinyl chloride	2.0	U	5.0	2.0	1.9	ug/L		03/19/19 17:27	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*		*03/19/19 17:27*	*1*
4-Bromofluorobenzene (Surr)	*113*		*85 - 114*		*03/19/19 17:27*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*03/19/19 17:27*	*1*
Toluene-d8 (Surr)	*107*		*89 - 112*		*03/19/19 17:27*	*1*

Client Sample ID: FB07 — Lab Sample ID: 280-120962-9

Date Collected: 03/06/19 16:20 — **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 17:52	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:52	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 17:52	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 17:52	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:52	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 17:52	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 17:52	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 17:52	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 17:52	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:52	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 17:52	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:52	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 17:52	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 17:52	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 17:52	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:52	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 17:52	1
2-Butanone (MEK)	**21**		20	5.0	1.5	ug/L		03/19/19 17:52	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 17:52	1
2-Hexanone	5.0	U M	20	5.0	3.6	ug/L		03/19/19 17:52	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:52	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 17:52	1
Acetone	**5.0**	**J**	20	10	3.2	ug/L		03/19/19 17:52	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 17:52	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 17:52	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 17:52	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 17:52	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 17:52	1
Bromomethane	5.0	U M	10	5.0	2.7	ug/L		03/19/19 17:52	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 17:52	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 17:52	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 17:52	1
Chloroethane	2.5	U	10	2.5	1.0	ug/L		03/19/19 17:52	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 17:52	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 17:52	1
cis-1,2-Dichloroethene	2.5	U	5.0	2.5	0.76	ug/L		03/19/19 17:52	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 17:52	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 17:52	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 17:52	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 17:52	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 17:52	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 17:52	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 17:52	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 17:52	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 17:52	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 17:52	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 17:52	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 17:52	1
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 17:52	1

Client Sample ID: FB07 Lab Sample ID: 280-120962-9

Date Collected: 03/06/19 16:20 **Matrix: Water**
Date Received: 03/08/19 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 17:52	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:52	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 17:52	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 17:52	1
Tetrachloroethene	2.5	U	5.0	2.5	0.60	ug/L		03/19/19 17:52	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 17:52	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 17:52	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 17:52	1
Trichloroethene	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 17:52	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 17:52	1
Vinyl chloride	2.0	U	5.0	2.0	1.9	ug/L		03/19/19 17:52	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*03/19/19 17:52*	*1*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*		*03/19/19 17:52*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*03/19/19 17:52*	*1*
Toluene-d8 (Surr)	*104*		*89 - 112*		*03/19/19 17:52*	*1*

Default Detection Limits

Client: Leidos, Inc.
Job ID: 280-120962-1
Project/Site: Stratton ANGB - Site 6

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	LOQ	DL	Units
1,1,1,2-Tetrachloroethane	5.0	0.62	ug/L
1,1,1-Trichloroethane	5.0	0.58	ug/L
1,1,2,2-Tetrachloroethane	5.0	2.0	ug/L
1,1,2-Trichloroethane	5.0	0.77	ug/L
1,1-Dichloroethane	5.0	0.56	ug/L
1,1-Dichloroethene	5.0	0.71	ug/L
1,1-Dichloropropene	5.0	0.66	ug/L
1,2,3-Trichlorobenzene	5.0	2.5	ug/L
1,2,3-Trichloropropane	5.0	1.8	ug/L
1,2,4-Trimethylbenzene	5.0	1.1	ug/L
1,2-Dibromo-3-Chloropropane	10	3.3	ug/L
1,2-Dibromoethane	5.0	0.58	ug/L
1,2-Dichloroethane	5.0	0.60	ug/L
1,2-Dichloropropane	5.0	0.52	ug/L
1,3,5-Trimethylbenzene	5.0	1.8	ug/L
1,3-Dichloropropane	5.0	0.56	ug/L
2,2-Dichloropropane	5.0	0.72	ug/L
2-Butanone (MEK)	20	1.5	ug/L
2-Chlorotoluene	5.0	0.86	ug/L
2-Hexanone	20	3.6	ug/L
4-Chlorotoluene	5.0	1.1	ug/L
4-Methyl-2-pentanone (MIBK)	20	1.8	ug/L
Acetone	20	3.2	ug/L
Benzene	5.0	0.33	ug/L
Bromobenzene	5.0	0.74	ug/L
Bromochloromethane	5.0	0.77	ug/L
Bromodichloromethane	5.0	0.46	ug/L
Bromoform	5.0	2.1	ug/L
Bromomethane	10	2.7	ug/L
Carbon disulfide	5.0	0.74	ug/L
Carbon tetrachloride	5.0	0.65	ug/L
Chlorobenzene	5.0	0.50	ug/L
Chloroethane	10	1.0	ug/L
Chloroform	5.0	0.57	ug/L
Chloromethane	10	0.85	ug/L
cis-1,2-Dichloroethene	5.0	0.76	ug/L
cis-1,3-Dichloropropene	5.0	2.6	ug/L
Dibromochloromethane	5.0	0.56	ug/L
Dibromomethane	5.0	0.72	ug/L
Dichlorodifluoromethane	10	1.3	ug/L
Ethylbenzene	5.0	0.44	ug/L
Isopropylbenzene	5.0	1.9	ug/L
m,p-Xylenes	5.0	0.52	ug/L
Methyl tert-butyl ether	5.0	0.79	ug/L
Methylene Chloride	7.5	1.7	ug/L
Naphthalene	5.0	3.0	ug/L
n-Butylbenzene	5.0	1.2	ug/L
N-Propylbenzene	5.0	1.4	ug/L
o-Xylene	5.0	0.85	ug/L
p-Isopropyltoluene	5.0	1.3	ug/L
sec-Butylbenzene	5.0	1.1	ug/L
Styrene	5.0	2.0	ug/L
tert-Butylbenzene	5.0	1.1	ug/L

Default Detection Limits

Client: Leidos, Inc. Job ID: 280-120962-1
Project/Site: Stratton ANGB - Site 6

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	LOQ	DL	Units
Tetrachloroethene	5.0	0.60	ug/L
Toluene	5.0	3.6	ug/L
trans-1,2-Dichloroethene	5.0	0.65	ug/L
trans-1,3-Dichloropropene	5.0	2.1	ug/L
Trichloroethene	5.0	0.58	ug/L
Trichlorofluoromethane	5.0	1.0	ug/L
Vinyl chloride	5.0	1.9	ug/L
Xylenes (total)	10	1.4	ug/L

General Chemistry

Analyte	LOQ	DL	Units
Total Organic Carbon - Quad	1.0	0.16	mg/L

Surrogate Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB - Site 6

Job ID: 280-120962-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(81-118)	(85-114)	(80-119)	(89-112)
280-120962-1	6MW2010	102	110	100	104
280-120962-1 MS	6MW2010MS	101	109	105	104
280-120962-1 MSD	6MW2010MSD	98	109	104	105
280-120962-2	6MW2010D	104	114	101	106
280-120962-3	6MW2210	102	112	101	105
280-120962-4	6MW2310	101	114	101	105
280-120962-5	6MW2410	99	112	101	106
280-120962-6	6MW2510	101	113	102	106
280-120962-7	6MW2610	101	110	101	105
280-120962-8	TB11	103	113	102	107
280-120962-9	FB07	99	111	99	104
LCS 160-420035/4	Lab Control Sample	100	103	100	101
LCSD 160-420035/5	Lab Control Sample Dup	98	106	101	105
MB 160-420035/7	Method Blank	104	107	98	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-420035/7
Matrix: Water
Analysis Batch: 420035

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62	ug/L		03/19/19 12:55	1
1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 12:55	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 12:55	1
1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 12:55	1
1,1-Dichloroethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 12:55	1
1,1-Dichloroethene	2.5	U	5.0	2.5	0.71	ug/L		03/19/19 12:55	1
1,1-Dichloropropene	2.5	U	5.0	2.5	0.66	ug/L		03/19/19 12:55	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5	ug/L		03/19/19 12:55	1
1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 12:55	1
1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 12:55	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3	ug/L		03/19/19 12:55	1
1,2-Dibromoethane	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 12:55	1
1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60	ug/L		03/19/19 12:55	1
1,2-Dichloropropane	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 12:55	1
1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8	ug/L		03/19/19 12:55	1
1,3-Dichloropropane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 12:55	1
2,2-Dichloropropane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 12:55	1
2-Butanone (MEK)	5.0	U	20	5.0	1.5	ug/L		03/19/19 12:55	1
2-Chlorotoluene	2.5	U	5.0	2.5	0.86	ug/L		03/19/19 12:55	1
2-Hexanone	5.0	U	20	5.0	3.6	ug/L		03/19/19 12:55	1
4-Chlorotoluene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 12:55	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8	ug/L		03/19/19 12:55	1
Acetone	10	U	20	10	3.2	ug/L		03/19/19 12:55	1
Benzene	2.5	U	5.0	2.5	0.33	ug/L		03/19/19 12:55	1
Bromobenzene	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 12:55	1
Bromochloromethane	2.5	U	5.0	2.5	0.77	ug/L		03/19/19 12:55	1
Bromodichloromethane	2.5	U	5.0	2.5	0.46	ug/L		03/19/19 12:55	1
Bromoform	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 12:55	1
Bromomethane	5.0	U	10	5.0	2.7	ug/L		03/19/19 12:55	1
Carbon disulfide	2.5	U	5.0	2.5	0.74	ug/L		03/19/19 12:55	1
Carbon tetrachloride	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 12:55	1
Chlorobenzene	2.5	U	5.0	2.5	0.50	ug/L		03/19/19 12:55	1
Chloroethane	2.5	U	10	2.5	1.0	ug/L		03/19/19 12:55	1
Chloroform	2.5	U	5.0	2.5	0.57	ug/L		03/19/19 12:55	1
Chloromethane	2.5	U	10	2.5	0.85	ug/L		03/19/19 12:55	1
cis-1,2-Dichloroethene	2.5	U	5.0	2.5	0.76	ug/L		03/19/19 12:55	1
cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6	ug/L		03/19/19 12:55	1
Dibromochloromethane	2.5	U	5.0	2.5	0.56	ug/L		03/19/19 12:55	1
Dibromomethane	2.5	U	5.0	2.5	0.72	ug/L		03/19/19 12:55	1
Dichlorodifluoromethane	2.5	U	10	2.5	1.3	ug/L		03/19/19 12:55	1
Ethylbenzene	2.5	U	5.0	2.5	0.44	ug/L		03/19/19 12:55	1
Isopropylbenzene	2.5	U	5.0	2.5	1.9	ug/L		03/19/19 12:55	1
m,p-Xylenes	2.5	U	5.0	2.5	0.52	ug/L		03/19/19 12:55	1
Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79	ug/L		03/19/19 12:55	1
Methylene Chloride	5.0	U	7.5	5.0	1.7	ug/L		03/19/19 12:55	1
Naphthalene	5.0	U	5.0	5.0	3.0	ug/L		03/19/19 12:55	1
n-Butylbenzene	2.5	U	5.0	2.5	1.2	ug/L		03/19/19 12:55	1
N-Propylbenzene	2.5	U	5.0	2.5	1.4	ug/L		03/19/19 12:55	1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-420035/7
Matrix: Water
Analysis Batch: 420035

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
o-Xylene	2.5	U	5.0	2.5	0.85	ug/L		03/19/19 12:55	1
p-Isopropyltoluene	2.5	U	5.0	2.5	1.3	ug/L		03/19/19 12:55	1
sec-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 12:55	1
Styrene	2.5	U	5.0	2.5	2.0	ug/L		03/19/19 12:55	1
tert-Butylbenzene	2.5	U	5.0	2.5	1.1	ug/L		03/19/19 12:55	1
Tetrachloroethene	2.5	U	5.0	2.5	0.60	ug/L		03/19/19 12:55	1
Toluene	5.0	U	5.0	5.0	3.6	ug/L		03/19/19 12:55	1
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65	ug/L		03/19/19 12:55	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1	ug/L		03/19/19 12:55	1
Trichloroethene	2.5	U	5.0	2.5	0.58	ug/L		03/19/19 12:55	1
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		03/19/19 12:55	1
Vinyl chloride	2.0	U	5.0	2.0	1.9	ug/L		03/19/19 12:55	1
Xylenes (total)	5.0	U	10	5.0	1.4	ug/L		03/19/19 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*81 - 118*		*03/19/19 12:55*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*03/19/19 12:55*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*03/19/19 12:55*	*1*
Toluene-d8 (Surr)	*104*		*89 - 112*		*03/19/19 12:55*	*1*

Lab Sample ID: LCS 160-420035/4
Matrix: Water
Analysis Batch: 420035

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	48.7		ug/L		97	78 - 124
1,1,1-Trichloroethane	50.0	47.4		ug/L		95	74 - 131
1,1,2,2-Tetrachloroethane	50.0	51.7		ug/L		103	71 - 121
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	80 - 119
1,1-Dichloroethane	50.0	47.4		ug/L		95	77 - 125
1,1-Dichloroethene	50.0	48.6		ug/L		97	71 - 131
1,1-Dichloropropene	50.0	48.5		ug/L		97	79 - 125
1,2,3-Trichlorobenzene	50.0	49.1		ug/L		98	69 - 129
1,2,3-Trichloropropane	50.0	52.0		ug/L		104	73 - 122
1,2,4-Trimethylbenzene	50.0	49.9		ug/L		100	76 - 124
1,2-Dibromo-3-Chloropropane	50.0	47.3		ug/L		95	62 - 128
1,2-Dibromoethane	50.0	51.4		ug/L		103	80 - 120
1,2-Dichloroethane	50.0	47.2		ug/L		94	73 - 128
1,2-Dichloropropane	50.0	48.4		ug/L		97	78 - 122
1,3,5-Trimethylbenzene	50.0	50.2		ug/L		100	75 - 124
1,3-Dichloropropane	50.0	51.1		ug/L		102	80 - 119
2,2-Dichloropropane	50.0	48.0		ug/L		96	60 - 139
2-Butanone (MEK)	50.0	51.4		ug/L		103	56 - 143
2-Chlorotoluene	50.0	48.7		ug/L		97	79 - 122
2-Hexanone	50.0	46.5		ug/L		93	57 - 139
4-Chlorotoluene	50.0	49.0		ug/L		98	78 - 122
4-Methyl-2-pentanone (MIBK)	50.0	46.2		ug/L		92	67 - 130
Acetone	50.0	50.2		ug/L		100	39 - 160

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-420035/4
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 420035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.2		ug/L		92	79 - 120
Bromobenzene	50.0	48.8		ug/L		98	80 - 120
Bromochloromethane	50.0	48.6		ug/L		97	78 - 123
Bromodichloromethane	50.0	48.9		ug/L		98	79 - 125
Bromoform	50.0	45.6		ug/L		91	66 - 130
Bromomethane	50.0	41.8		ug/L		84	53 - 141
Carbon disulfide	50.0	48.7		ug/L		97	64 - 133
Carbon tetrachloride	50.0	47.3		ug/L		95	72 - 136
Chlorobenzene	50.0	48.0		ug/L		96	82 - 118
Chloroethane	50.0	41.2		ug/L		82	60 - 138
Chloroform	50.0	47.8		ug/L		96	79 - 124
Chloromethane	50.0	48.1		ug/L		96	50 - 139
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	78 - 123
cis-1,3-Dichloropropene	50.0	49.8		ug/L		100	75 - 124
Dibromochloromethane	50.0	50.9		ug/L		102	74 - 126
Dibromomethane	50.0	48.9		ug/L		98	79 - 123
Dichlorodifluoromethane	50.0	48.2		ug/L		96	32 - 152
Ethylbenzene	50.0	48.2		ug/L		96	79 - 121
Isopropylbenzene	50.0	49.9		ug/L		100	72 - 131
m,p-Xylenes	50.0	50.2		ug/L		100	80 - 121
Methyl tert-butyl ether	50.0	49.7		ug/L		99	71 - 124
Methylene Chloride	50.0	47.6		ug/L		95	74 - 124
Naphthalene	50.0	53.8		ug/L		108	61 - 128
n-Butylbenzene	50.0	50.4		ug/L		101	75 - 128
N-Propylbenzene	50.0	50.1		ug/L		100	76 - 126
o-Xylene	50.0	52.5		ug/L		105	78 - 122
p-Isopropyltoluene	50.0	50.2		ug/L		100	77 - 127
sec-Butylbenzene	50.0	49.5		ug/L		99	77 - 126
Styrene	50.0	46.2		ug/L		92	78 - 123
tert-Butylbenzene	50.0	49.4		ug/L		99	78 - 124
Tetrachloroethene	50.0	46.9		ug/L		94	74 - 129
Toluene	50.0	49.8		ug/L		100	80 - 121
trans-1,2-Dichloroethene	50.0	47.9		ug/L		96	75 - 124
trans-1,3-Dichloropropene	50.0	51.5		ug/L		103	73 - 127
Trichloroethene	50.0	46.1		ug/L		92	79 - 123
Trichlorofluoromethane	50.0	46.6		ug/L		93	65 - 141
Vinyl chloride	50.0	48.9		ug/L		98	58 - 137
Xylenes (total)	100	103		ug/L		103	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*
Dibromofluoromethane (Surr)	*100*		*80 - 119*
Toluene-d8 (Surr)	*101*		*89 - 112*

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-420035/5
Matrix: Water
Analysis Batch: 420035

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	49.5		ug/L		99	78 - 124	2	20
1,1,1-Trichloroethane	50.0	48.1		ug/L		96	74 - 131	2	20
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/L		98	71 - 121	5	20
1,1,2-Trichloroethane	50.0	48.7		ug/L		97	80 - 119	3	20
1,1-Dichloroethane	50.0	47.6		ug/L		95	77 - 125	0	20
1,1-Dichloroethene	50.0	49.0		ug/L		98	71 - 131	1	20
1,1-Dichloropropene	50.0	49.2		ug/L		98	79 - 125	2	20
1,2,3-Trichlorobenzene	50.0	49.9		ug/L		100	69 - 129	2	20
1,2,3-Trichloropropane	50.0	49.7		ug/L		99	73 - 122	5	20
1,2,4-Trimethylbenzene	50.0	51.3		ug/L		103	76 - 124	3	20
1,2-Dibromo-3-Chloropropane	50.0	43.9		ug/L		88	62 - 128	7	20
1,2-Dibromoethane	50.0	49.2		ug/L		98	80 - 120	4	20
1,2-Dichloroethane	50.0	45.9		ug/L		92	73 - 128	3	20
1,2-Dichloropropane	50.0	47.8		ug/L		96	78 - 122	1	20
1,3,5-Trimethylbenzene	50.0	52.1		ug/L		104	75 - 124	4	20
1,3-Dichloropropane	50.0	49.9		ug/L		100	80 - 119	2	20
2,2-Dichloropropane	50.0	48.4		ug/L		97	60 - 139	1	20
2-Butanone (MEK)	50.0	47.0		ug/L		94	56 - 143	9	20
2-Chlorotoluene	50.0	50.2		ug/L		100	79 - 122	3	20
2-Hexanone	50.0	43.1		ug/L		86	57 - 139	8	20
4-Chlorotoluene	50.0	50.5		ug/L		101	78 - 122	3	20
4-Methyl-2-pentanone (MIBK)	50.0	43.9		ug/L		88	67 - 130	5	20
Acetone	50.0	46.1		ug/L		92	39 - 160	8	20
Benzene	50.0	46.0		ug/L		92	79 - 120	0	20
Bromobenzene	50.0	49.1		ug/L		98	80 - 120	1	20
Bromochloromethane	50.0	47.7		ug/L		95	78 - 123	2	20
Bromodichloromethane	50.0	48.2		ug/L		96	79 - 125	1	20
Bromoform	50.0	43.8		ug/L		88	66 - 130	4	20
Bromomethane	50.0	40.1		ug/L		80	53 - 141	4	20
Carbon disulfide	50.0	49.3		ug/L		99	64 - 133	1	20
Carbon tetrachloride	50.0	47.2		ug/L		94	72 - 136	0	20
Chlorobenzene	50.0	49.2		ug/L		98	82 - 118	2	20
Chloroethane	50.0	46.1		ug/L		92	60 - 138	11	20
Chloroform	50.0	47.8		ug/L		96	79 - 124	0	20
Chloromethane	50.0	48.2		ug/L		96	50 - 139	0	20
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	78 - 123	0	20
cis-1,3-Dichloropropene	50.0	49.5		ug/L		99	75 - 124	1	20
Dibromochloromethane	50.0	50.2		ug/L		100	74 - 126	1	20
Dibromomethane	50.0	46.5		ug/L		93	79 - 123	5	20
Dichlorodifluoromethane	50.0	48.6		ug/L		97	32 - 152	1	20
Ethylbenzene	50.0	49.1		ug/L		98	79 - 121	2	20
Isopropylbenzene	50.0	51.9		ug/L		104	72 - 131	4	20
m,p-Xylenes	50.0	51.9		ug/L		104	80 - 121	3	20
Methyl tert-butyl ether	50.0	47.9		ug/L		96	71 - 124	4	20
Methylene Chloride	50.0	47.3		ug/L		95	74 - 124	1	20
Naphthalene	50.0	51.6		ug/L		103	61 - 128	4	20
n-Butylbenzene	50.0	52.0		ug/L		104	75 - 128	3	20
N-Propylbenzene	50.0	51.7		ug/L		103	76 - 126	3	20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-420035/5
Matrix: Water
Analysis Batch: 420035

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene			50.0	53.4		ug/L		107	78 - 122	2	20
p-Isopropyltoluene			50.0	51.8		ug/L		104	77 - 127	3	20
sec-Butylbenzene			50.0	51.1		ug/L		102	77 - 126	3	20
Styrene			50.0	46.9		ug/L		94	78 - 123	1	20
tert-Butylbenzene			50.0	51.0		ug/L		102	78 - 124	3	20
Tetrachloroethene			50.0	48.7		ug/L		97	74 - 129	4	20
Toluene			50.0	50.6		ug/L		101	80 - 121	2	20
trans-1,2-Dichloroethene			50.0	48.6		ug/L		97	75 - 124	2	20
trans-1,3-Dichloropropene			50.0	51.1		ug/L		102	73 - 127	1	20
Trichloroethene			50.0	46.7		ug/L		93	79 - 123	1	20
Trichlorofluoromethane			50.0	47.4		ug/L		95	65 - 141	2	20
Vinyl chloride			50.0	49.1		ug/L		98	58 - 137	0	20
Xylenes (total)			100	105		ug/L		105	79 - 121	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*
4-Bromofluorobenzene (Surr)	*106*		*85 - 114*
Dibromofluoromethane (Surr)	*101*		*80 - 119*
Toluene-d8 (Surr)	*105*		*89 - 112*

Lab Sample ID: 280-120962-1 MS
Matrix: Water
Analysis Batch: 420035

Client Sample ID: 6MW2010MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2.5	U	50.0	49.2		ug/L		98	78 - 124
1,1,1-Trichloroethane	2.5	U	50.0	48.0		ug/L		96	74 - 131
1,1,2,2-Tetrachloroethane	2.5	U	50.0	48.6		ug/L		97	71 - 121
1,1,2-Trichloroethane	2.5	U	50.0	48.4		ug/L		97	80 - 119
1,1-Dichloroethane	2.5	U	50.0	48.2		ug/L		96	77 - 125
1,1-Dichloroethene	2.5	U	50.0	48.9		ug/L		98	71 - 131
1,1-Dichloropropene	2.5	U	50.0	48.7		ug/L		97	79 - 125
1,2,3-Trichlorobenzene	2.5	U	50.0	45.2		ug/L		90	69 - 129
1,2,3-Trichloropropane	2.5	U	50.0	48.3		ug/L		97	73 - 122
1,2,4-Trimethylbenzene	2.5	U	50.0	50.6		ug/L		101	76 - 124
1,2-Dibromo-3-Chloropropane	5.0	U	50.0	41.4		ug/L		83	62 - 128
1,2-Dibromoethane	2.5	U	50.0	49.1		ug/L		98	80 - 120
1,2-Dichloroethane	2.5	U	50.0	46.5		ug/L		93	73 - 128
1,2-Dichloropropane	2.5	U	50.0	48.2		ug/L		96	78 - 122
1,3,5-Trimethylbenzene	2.5	U	50.0	51.4		ug/L		103	75 - 124
1,3-Dichloropropane	2.5	U	50.0	49.2		ug/L		98	80 - 119
2,2-Dichloropropane	2.5	U	50.0	48.9		ug/L		98	60 - 139
2-Butanone (MEK)	15	J	50.0	65.6		ug/L		101	56 - 143
2-Chlorotoluene	2.5	U	50.0	49.9		ug/L		100	79 - 122
2-Hexanone	5.0	U	50.0	43.5		ug/L		87	57 - 139
4-Chlorotoluene	2.5	U	50.0	50.7		ug/L		101	78 - 122
4-Methyl-2-pentanone (MIBK)	10	U	50.0	43.7		ug/L		87	67 - 130
Acetone	10	U	50.0	50.3		ug/L		101	39 - 160

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-120962-1 MS
Matrix: Water
Analysis Batch: 420035

Client Sample ID: 6MW2010MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2.5	U	50.0	46.8		ug/L		94	79 - 120
Bromobenzene	2.5	U	50.0	49.5		ug/L		99	80 - 120
Bromochloromethane	2.5	U	50.0	48.0		ug/L		96	78 - 123
Bromodichloromethane	2.5	U	50.0	48.5		ug/L		97	79 - 125
Bromoform	2.5	U	50.0	43.8		ug/L		88	66 - 130
Bromomethane	5.0	U	50.0	36.4		ug/L		73	53 - 141
Carbon disulfide	2.5	U	50.0	49.1		ug/L		98	64 - 133
Carbon tetrachloride	2.5	U	50.0	47.6		ug/L		95	72 - 136
Chlorobenzene	2.5	U	50.0	48.5		ug/L		97	82 - 118
Chloroethane	2.5	U J1	50.0	18.7	J1	ug/L		37	60 - 138
Chloroform	2.5	U	50.0	48.1		ug/L		96	79 - 124
Chloromethane	2.5	U	50.0	47.3		ug/L		95	50 - 139
cis-1,2-Dichloroethene	0.92	J	50.0	50.2		ug/L		99	78 - 123
cis-1,3-Dichloropropene	5.0	U	50.0	49.7		ug/L		99	75 - 124
Dibromochloromethane	2.5	U	50.0	49.6		ug/L		99	74 - 126
Dibromomethane	2.5	U	50.0	47.3		ug/L		95	79 - 123
Dichlorodifluoromethane	2.5	U	50.0	48.6		ug/L		97	32 - 152
Ethylbenzene	2.5	U	50.0	48.4		ug/L		97	79 - 121
Isopropylbenzene	2.5	U	50.0	51.1		ug/L		102	72 - 131
m,p-Xylenes	2.5	U	50.0	50.8		ug/L		102	80 - 121
Methyl tert-butyl ether	2.5	U	50.0	50.2		ug/L		100	71 - 124
Methylene Chloride	5.0	U	50.0	48.7		ug/L		97	74 - 124
Naphthalene	5.0	U	50.0	47.4		ug/L		95	61 - 128
n-Butylbenzene	2.5	U	50.0	50.3		ug/L		101	75 - 128
N-Propylbenzene	2.5	U	50.0	51.1		ug/L		102	76 - 126
o-Xylene	2.5	U	50.0	52.8		ug/L		106	78 - 122
p-Isopropyltoluene	2.5	U	50.0	50.6		ug/L		101	77 - 127
sec-Butylbenzene	2.5	U	50.0	49.9		ug/L		100	77 - 126
Styrene	2.5	U	50.0	46.4		ug/L		93	78 - 123
tert-Butylbenzene	2.5	U	50.0	50.2		ug/L		100	78 - 124
Tetrachloroethene	2.5	U	50.0	46.8		ug/L		94	74 - 129
Toluene	5.0	U	50.0	50.0		ug/L		100	80 - 121
trans-1,2-Dichloroethene	2.5	U	50.0	49.3		ug/L		99	75 - 124
trans-1,3-Dichloropropene	2.5	U	50.0	51.8		ug/L		104	73 - 127
Trichloroethene	2.5	U	50.0	45.9		ug/L		92	79 - 123
Trichlorofluoromethane	2.5	U J1	50.0	36.1		ug/L		72	65 - 141
Vinyl chloride	2.0	U	50.0	48.1		ug/L		96	58 - 137
Xylenes (total)	5.0	U	100	104		ug/L		104	79 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*
4-Bromofluorobenzene (Surr)	*109*		*85 - 114*
Dibromofluoromethane (Surr)	*105*		*80 - 119*
Toluene-d8 (Surr)	*104*		*89 - 112*

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-120962-1 MSD **Client Sample ID: 6MW2010MSD**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 420035

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	2.5	U	50.0	49.9		ug/L		100	78 - 124	1	20
1,1,1-Trichloroethane	2.5	U	50.0	48.2		ug/L		96	74 - 131	0	20
1,1,2,2-Tetrachloroethane	2.5	U	50.0	47.1		ug/L		94	71 - 121	3	20
1,1,2-Trichloroethane	2.5	U	50.0	48.3		ug/L		97	80 - 119	0	20
1,1-Dichloroethane	2.5	U	50.0	48.2		ug/L		96	77 - 125	0	20
1,1-Dichloroethene	2.5	U	50.0	48.9		ug/L		98	71 - 131	0	20
1,1-Dichloropropene	2.5	U	50.0	48.7		ug/L		97	79 - 125	0	20
1,2,3-Trichlorobenzene	2.5	U	50.0	46.4		ug/L		93	69 - 129	3	20
1,2,3-Trichloropropane	2.5	U	50.0	47.4		ug/L		95	73 - 122	2	20
1,2,4-Trimethylbenzene	2.5	U	50.0	51.6		ug/L		103	76 - 124	2	20
1,2-Dibromo-3-Chloropropane	5.0	U	50.0	40.8		ug/L		82	62 - 128	1	20
1,2-Dibromoethane	2.5	U	50.0	49.2		ug/L		98	80 - 120	0	20
1,2-Dichloroethane	2.5	U	50.0	45.7		ug/L		91	73 - 128	2	20
1,2-Dichloropropane	2.5	U	50.0	48.4		ug/L		97	78 - 122	1	20
1,3,5-Trimethylbenzene	2.5	U	50.0	52.6		ug/L		105	75 - 124	2	20
1,3-Dichloropropane	2.5	U	50.0	49.1		ug/L		98	80 - 119	0	20
2,2-Dichloropropane	2.5	U	50.0	49.3		ug/L		99	60 - 139	1	20
2-Butanone (MEK)	15	J	50.0	62.7		ug/L		96	56 - 143	4	20
2-Chlorotoluene	2.5	U	50.0	50.7		ug/L		101	79 - 122	2	20
2-Hexanone	5.0	U	50.0	41.4		ug/L		83	57 - 139	5	20
4-Chlorotoluene	2.5	U	50.0	51.8		ug/L		104	78 - 122	2	20
4-Methyl-2-pentanone (MIBK)	10	U	50.0	42.8		ug/L		86	67 - 130	2	20
Acetone	10	U	50.0	47.9		ug/L		96	39 - 160	5	20
Benzene	2.5	U	50.0	46.5		ug/L		93	79 - 120	1	20
Bromobenzene	2.5	U	50.0	50.0		ug/L		100	80 - 120	1	20
Bromochloromethane	2.5	U	50.0	47.3		ug/L		95	78 - 123	1	20
Bromodichloromethane	2.5	U	50.0	48.2		ug/L		96	79 - 125	1	20
Bromoform	2.5	U	50.0	43.0		ug/L		86	66 - 130	2	20
Bromomethane	5.0	U	50.0	37.4		ug/L		75	53 - 141	3	20
Carbon disulfide	2.5	U	50.0	49.1		ug/L		98	64 - 133	0	20
Carbon tetrachloride	2.5	U	50.0	48.3		ug/L		97	72 - 136	1	20
Chlorobenzene	2.5	U	50.0	49.5		ug/L		99	82 - 118	2	20
Chloroethane	2.5	U J1	50.0	19.1	J1	ug/L		38	60 - 138	2	20
Chloroform	2.5	U	50.0	47.2		ug/L		94	79 - 124	2	20
Chloromethane	2.5	U	50.0	48.6		ug/L		97	50 - 139	3	20
cis-1,2-Dichloroethene	0.92	J	50.0	49.9		ug/L		98	78 - 123	1	20
cis-1,3-Dichloropropene	5.0	U	50.0	49.4		ug/L		99	75 - 124	0	20
Dibromochloromethane	2.5	U	50.0	50.0		ug/L		100	74 - 126	1	20
Dibromomethane	2.5	U	50.0	46.1		ug/L		92	79 - 123	2	20
Dichlorodifluoromethane	2.5	U	50.0	48.6		ug/L		97	32 - 152	0	20
Ethylbenzene	2.5	U	50.0	49.8		ug/L		100	79 - 121	3	20
Isopropylbenzene	2.5	U	50.0	52.6		ug/L		105	72 - 131	3	20
m,p-Xylenes	2.5	U	50.0	51.7		ug/L		103	80 - 121	2	20
Methyl tert-butyl ether	2.5	U	50.0	48.7		ug/L		97	71 - 124	3	20
Methylene Chloride	5.0	U	50.0	48.7		ug/L		97	74 - 124	0	20
Naphthalene	5.0	U	50.0	47.7		ug/L		95	61 - 128	1	20
n-Butylbenzene	2.5	U	50.0	51.4		ug/L		103	75 - 128	2	20
N-Propylbenzene	2.5	U	50.0	52.3		ug/L		105	76 - 126	2	20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-120962-1 MSD **Client Sample ID: 6MW2010MSD**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 420035

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	2.5	U	50.0	54.4		ug/L		109	78 - 122	3	20
p-Isopropyltoluene	2.5	U	50.0	51.5		ug/L		103	77 - 127	2	20
sec-Butylbenzene	2.5	U	50.0	51.0		ug/L		102	77 - 126	2	20
Styrene	2.5	U	50.0	47.2		ug/L		94	78 - 123	2	20
tert-Butylbenzene	2.5	U	50.0	51.2		ug/L		102	78 - 124	2	20
Tetrachloroethene	2.5	U	50.0	48.3		ug/L		97	74 - 129	3	20
Toluene	5.0	U	50.0	51.0		ug/L		102	80 - 121	2	20
trans-1,2-Dichloroethene	2.5	U	50.0	49.3		ug/L		99	75 - 124	0	20
trans-1,3-Dichloropropene	2.5	U	50.0	51.1		ug/L		102	73 - 127	1	20
Trichloroethene	2.5	U	50.0	46.3		ug/L		93	79 - 123	1	20
Trichlorofluoromethane	2.5	U J1	50.0	44.8	J1	ug/L		90	65 - 141	21	20
Vinyl chloride	2.0	U	50.0	49.3		ug/L		99	58 - 137	3	20
Xylenes (total)	5.0	U	100	106		ug/L		106	79 - 121	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*
4-Bromofluorobenzene (Surr)	*109*		*85 - 114*
Dibromofluoromethane (Surr)	*104*		*80 - 119*
Toluene-d8 (Surr)	*105*		*89 - 112*

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-450593/4 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 450593

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Quad	0.50	U	1.0	0.50	0.16	mg/L		03/12/19 13:24	1

Lab Sample ID: LCS 280-450593/3 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 450593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Quad	25.0	24.2		mg/L		97	88 - 112

QC Association Summary

Client: Leidos, Inc.
Job ID: 280-120962-1
Project/Site: Stratton ANGB - Site 6

GC/MS VOA

Analysis Batch: 420035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-120962-1	6MW2010	Total/NA	Water	8260C DOD	
280-120962-2	6MW2010D	Total/NA	Water	8260C DOD	
280-120962-3	6MW2210	Total/NA	Water	8260C DOD	
280-120962-4	6MW2310	Total/NA	Water	8260C DOD	
280-120962-5	6MW2410	Total/NA	Water	8260C DOD	
280-120962-6	6MW2510	Total/NA	Water	8260C DOD	
280-120962-7	6MW2610	Total/NA	Water	8260C DOD	
280-120962-8	TB11	Total/NA	Water	8260C DOD	
280-120962-9	FB07	Total/NA	Water	8260C DOD	
MB 160-420035/7	Method Blank	Total/NA	Water	8260C DOD	
LCS 160-420035/4	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 160-420035/5	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
280-120962-1 MS	6MW2010MS	Total/NA	Water	8260C DOD	
280-120962-1 MSD	6MW2010MSD	Total/NA	Water	8260C DOD	

General Chemistry

Analysis Batch: 450593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-120962-1	6MW2010	Total/NA	Water	9060A	
280-120962-2	6MW2010D	Total/NA	Water	9060A	
280-120962-3	6MW2210	Total/NA	Water	9060A	
280-120962-4	6MW2310	Total/NA	Water	9060A	
280-120962-5	6MW2410	Total/NA	Water	9060A	
280-120962-6	6MW2510	Total/NA	Water	9060A	
280-120962-7	6MW2610	Total/NA	Water	9060A	
MB 280-450593/4	Method Blank	Total/NA	Water	9060A	
LCS 280-450593/3	Lab Control Sample	Total/NA	Water	9060A	

Lab Chronicle

Client: Leidos, Inc. Job ID: 280-120962-1
Project/Site: Stratton ANGB - Site 6

Client Sample ID: 6MW2010 Lab Sample ID: 280-120962-1
Date Collected: 03/06/19 10:00 **Matrix: Water**
Date Received: 03/08/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	420035	03/19/19 13:20	KKA	TAL SL
Total/NA	Analysis	9060A		1			450593	03/12/19 18:18	LPL	TAL DEN

Client Sample ID: 6MW2010D Lab Sample ID: 280-120962-2
Date Collected: 03/06/19 10:00 **Matrix: Water**
Date Received: 03/08/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	420035	03/19/19 14:59	KKA	TAL SL
Total/NA	Analysis	9060A		1			450593	03/12/19 18:35	LPL	TAL DEN

Client Sample ID: 6MW2210 Lab Sample ID: 280-120962-3
Date Collected: 03/06/19 12:10 **Matrix: Water**
Date Received: 03/08/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	420035	03/19/19 15:24	KKA	TAL SL
Total/NA	Analysis	9060A		1			450593	03/12/19 18:50	LPL	TAL DEN

Client Sample ID: 6MW2310 Lab Sample ID: 280-120962-4
Date Collected: 03/06/19 13:25 **Matrix: Water**
Date Received: 03/08/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	420035	03/19/19 15:48	KKA	TAL SL
Total/NA	Analysis	9060A		1			450593	03/12/19 19:04	LPL	TAL DEN

Client Sample ID: 6MW2410 Lab Sample ID: 280-120962-5
Date Collected: 03/06/19 14:15 **Matrix: Water**
Date Received: 03/08/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	420035	03/19/19 16:13	KKA	TAL SL
Total/NA	Analysis	9060A		1			450593	03/12/19 19:48	LPL	TAL DEN

Client Sample ID: 6MW2510 Lab Sample ID: 280-120962-6
Date Collected: 03/06/19 17:30 **Matrix: Water**
Date Received: 03/08/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	420035	03/19/19 16:38	KKA	TAL SL
Total/NA	Analysis	9060A		1			450593	03/12/19 20:05	LPL	TAL DEN

Lab Chronicle

Client: Leidos, Inc. Job ID: 280-120962-1
Project/Site: Stratton ANGB - Site 6

Client Sample ID: 6MW2610 — Lab Sample ID: 280-120962-7

Date Collected: 03/06/19 16:10 — **Matrix: Water**
Date Received: 03/08/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	420035	03/19/19 17:02	KKA	TAL SL
Total/NA	Analysis	9060A		1			450593	03/12/19 20:22	LPL	TAL DEN

Client Sample ID: TB11 — Lab Sample ID: 280-120962-8

Date Collected: 03/06/19 16:15 — **Matrix: Water**
Date Received: 03/08/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	420035	03/19/19 17:27	KKA	TAL SL

Client Sample ID: FB07 — Lab Sample ID: 280-120962-9

Date Collected: 03/06/19 16:20 — **Matrix: Water**
Date Received: 03/08/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	420035	03/19/19 17:52	KKA	TAL SL

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Leidos, Inc. Job ID: 280-120962-1
Project/Site: Stratton ANGB - Site 6

Laboratory: Eurofins TestAmerica, Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD / DOE		2907.01	10-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Connecticut	State Program	1	PH-0686	09-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad

Florida	NELAP	4	E87667	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad

New Hampshire	NELAP	1	205310	04-28-19
New York	NELAP	2	11964	04-01-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad

Pennsylvania	NELAP	3	68-00664	07-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad

Accreditation/Certification Summary

Client: Leidos, Inc. Job ID: 280-120962-1
Project/Site: Stratton ANGB - Site 6

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-19
ANAB	DoD / DOE		L2305	04-06-22
Arizona	State Program	9	AZ0813	12-08-19
California	State Program	9	2886	06-30-19 *
Connecticut	State Program	1	PH-0241	03-31-21
Florida	NELAP	4	E87689	06-30-19 *
Hawaii	State Program	9	NA	06-30-19
Illinois	NELAP	5	200023	11-30-19
Iowa	State Program	7	373	12-01-20
Kansas	NELAP	7	E-10236	10-31-19
Kentucky (DW)	State Program	4	KY90125	12-31-19
Louisiana	NELAP	6	04080	06-30-19
Louisiana (DW)	NELAP	6	LA011	12-31-19
Maryland	State Program	3	310	09-30-19
Michigan	State Program	5	9005	06-30-19
Missouri	State Program	7	780	06-30-19
Nevada	State Program	9	MO000542018-1	07-31-19
New Jersey	NELAP	2	MO002	06-30-19 *
New York	NELAP	2	11616	03-31-20
North Dakota	State Program	8	R207	06-30-19 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-19
Pennsylvania	NELAP	3	68-00540	02-28-20
South Carolina	State Program	4	85002001	06-30-19
Texas	NELAP	6	T104704193-18-13	07-31-19
US Fish & Wildlife	Federal		058448	07-31-19
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542018-10	07-31-19
Virginia	NELAP	3	460230	06-14-19 *
Washington	State Program	10	C592	08-30-19
West Virginia DEP	State Program	3	381	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Leidos, Inc. Job ID: 280-120962-1
Project/Site: Stratton ANGB - Site 6

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	TAL SL
9060A	Organic Carbon, Total (TOC)	SW846	TAL DEN
5030C	Purge and Trap	SW846	TAL SL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Leidos, Inc. Job ID: 280-120962-1
Project/Site: Stratton ANGB - Site 6

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-120962-1	6MW2010	Water	03/06/19 10:00	03/08/19 09:50
280-120962-2	6MW2010D	Water	03/06/19 10:00	03/08/19 09:50
280-120962-3	6MW2210	Water	03/06/19 12:10	03/08/19 09:50
280-120962-4	6MW2310	Water	03/06/19 13:25	03/08/19 09:50
280-120962-5	6MW2410	Water	03/06/19 14:15	03/08/19 09:50
280-120962-6	6MW2510	Water	03/06/19 17:30	03/08/19 09:50
280-120962-7	6MW2610	Water	03/06/19 16:10	03/08/19 09:50
280-120962-8	TB11	Water	03/06/19 16:15	03/08/19 09:50
280-120962-9	FB07	Water	03/06/19 16:20	03/08/19 09:50

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, St. Lo Job No.: 280-120962-1

SDG No.:

Instrument ID: VMSL Analysis Batch Number: 419780

Lab Sample ID: IC 160-419780/3 Client Sample ID:

Date Analyzed: 03/18/19 10:33 Lab File ID: LICL4077.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromofluoromethane (Surr)	8.28	Peak assignment corrected	aguk	03/18/19 14:14
1,2-Dichloroethane-d4 (Surr)	8.81	Peak assignment corrected	aguk	03/18/19 14:14
Toluene-d8 (Surr)	10.48	Peak assignment corrected	aguk	03/18/19 14:14
4-Bromofluorobenzene (Surr)	13.01	Peak assignment corrected	aguk	03/18/19 14:15

Lab Sample ID: IC 160-419780/4 Client Sample ID:

Date Analyzed: 03/18/19 10:58 Lab File ID: LICL4078.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.40	Peak assignment corrected	aguk	03/18/19 14:16
Iodomethane	5.78	Peak assignment corrected	aguk	03/18/19 14:16
Acetone	6.42	Peak assignment corrected	aguk	03/18/19 14:16
Dibromofluoromethane (Surr)	8.29	Peak assignment corrected	aguk	03/18/19 14:16
2-Butanone (MEK)	8.40	Peak assignment corrected	aguk	03/18/19 14:16
1,2-Dichloroethane-d4 (Surr)	8.81	Peak assignment corrected	aguk	03/18/19 14:16
Ethyl acrylate	9.65	Peak assignment corrected	aguk	03/18/19 14:16
2-Chloroethyl vinyl ether	10.22	Peak assignment corrected	aguk	03/18/19 14:17
Toluene-d8 (Surr)	10.48	Peak assignment corrected	aguk	03/18/19 14:17
n-Butyl acetate	11.45	Peak assignment corrected	aguk	03/18/19 14:17
2-Hexanone	11.57	Peak assignment corrected	aguk	03/18/19 14:17
4-Bromofluorobenzene (Surr)	13.01	Peak assignment corrected	aguk	03/18/19 14:17
1,1,2,2-Tetrachloroethane	13.16	Peak assignment corrected	aguk	03/18/19 14:17
trans-1,4-Dichloro-2-butene	13.33	Peak assignment corrected	aguk	03/18/19 14:17
1,2-Dibromo-3-Chloropropane	15.30	Peak assignment corrected	aguk	03/18/19 14:17

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, St. Lo Job No.: 280-120962-1

SDG No.:

Instrument ID: VMSL Analysis Batch Number: 419780

Lab Sample ID: IC 160-419780/6 Client Sample ID:

Date Analyzed: 03/18/19 11:47 Lab File ID: LICL4080.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	5.78	Peak assignment corrected	aguk	03/18/19 14:19
Dibromofluoromethane (Surr)	8.29	Peak assignment corrected	aguk	03/18/19 14:19
1,2-Dichloroethane-d4 (Surr)	8.81	Peak assignment corrected	aguk	03/18/19 14:19
Toluene-d8 (Surr)	10.48	Peak assignment corrected	aguk	03/18/19 14:20
4-Bromofluorobenzene (Surr)	13.01	Peak assignment corrected	aguk	03/18/19 14:20
trans-1,4-Dichloro-2-butene	13.33	Peak assignment corrected	aguk	03/18/19 14:20

Lab Sample ID: IC 160-419780/7 Client Sample ID:

Date Analyzed: 03/18/19 12:12 Lab File ID: LICL4081.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromofluoromethane (Surr)	8.29	Peak assignment corrected	aguk	03/18/19 14:23
1,2-Dichloroethane-d4 (Surr)	8.81	Peak assignment corrected	aguk	03/18/19 14:23
Toluene-d8 (Surr)	10.48	Peak assignment corrected	aguk	03/18/19 14:23
4-Bromofluorobenzene (Surr)	13.01	Peak assignment corrected	aguk	03/18/19 14:23

Lab Sample ID: ICIS 160-419780/8 Client Sample ID:

Date Analyzed: 03/18/19 12:36 Lab File ID: LICL4082.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,4-Trimethylbenzene	13.64	Peak assignment corrected	aguk	03/18/19 14:09

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, St. Lo Job No.: 280-120962-1

SDG No.:

Instrument ID: VMSL Analysis Batch Number: 419780

Lab Sample ID: IC 160-419780/9 Client Sample ID:

Date Analyzed: 03/18/19 13:01 Lab File ID: LICL4083.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromofluoromethane (Surr)	8.29	Peak assignment corrected	aguk	03/18/19 14:25
1,2-Dichloroethane-d4 (Surr)	8.81	Peak assignment corrected	aguk	03/18/19 14:25
Toluene-d8 (Surr)	10.48	Peak assignment corrected	aguk	03/18/19 14:25
4-Bromofluorobenzene (Surr)	13.01	Peak assignment corrected	aguk	03/18/19 14:25

Lab Sample ID: IC 160-419780/10 Client Sample ID:

Date Analyzed: 03/18/19 13:26 Lab File ID: LICL4084.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Chlorohexane	11.84	Peak assignment corrected	aguk	03/18/19 14:27
Chlorobenzene-d5	11.91	Peak assignment corrected	aguk	03/18/19 14:26
Ethylbenzene	11.91	Peak assignment corrected	aguk	03/18/19 14:27

Lab Sample ID: IC 160-419780/16 Client Sample ID:

Date Analyzed: 03/18/19 17:13 Lab File ID: LICL4090.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	5.78	Peak assignment corrected	aguk	03/18/19 17:36
Acetone	6.42	Peak assignment corrected	aguk	03/18/19 17:36
1,1,2,2-Tetrachloroethane	13.16	Peak assignment corrected	aguk	03/18/19 17:36

Lab Sample ID: ICV 160-419780/17 Client Sample ID:

Date Analyzed: 03/18/19 18:07 Lab File ID: LICV4091.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	8.39	Peak assignment corrected	aguk	03/18/19 18:33

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, St. Lo Job No.: 280-120962-1

SDG No.:

Instrument ID: VMSL Analysis Batch Number: 420035

Lab Sample ID: CCV 160-420035/3 Client Sample ID:

Date Analyzed: 03/19/19 11:17 Lab File ID: LCCV4113.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	8.39	Peak assignment corrected	aguk	03/20/19 15:22

Lab Sample ID: MB 160-420035/7 Client Sample ID:

Date Analyzed: 03/19/19 12:55 Lab File ID: LBLK4117.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	aguk	03/20/19 15:27

Lab Sample ID: 280-120962-2 Client Sample ID: 6MW2010D

Date Analyzed: 03/19/19 14:59 Lab File ID: LSMP4122.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	aguk	03/20/19 15:34

Lab Sample ID: 280-120962-3 Client Sample ID: 6MW2210

Date Analyzed: 03/19/19 15:24 Lab File ID: LSMP4123.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	aguk	03/20/19 15:35
Chloroethane		Invalid Compound ID	aguk	03/20/19 15:34
Trichloroethene		Invalid Compound ID	aguk	03/20/19 15:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, St. Lo Job No.: 280-120962-1

SDG No.:

Instrument ID: VMSL Analysis Batch Number: 420035

Lab Sample ID: 280-120962-4 Client Sample ID: 6MW2310

Date Analyzed: 03/19/19 15:48 Lab File ID: LSMP4124.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	aguk	03/20/19 15:36
2-Hexanone		Invalid Compound ID	aguk	03/20/19 15:36

Lab Sample ID: 280-120962-5 Client Sample ID: 6MW2410

Date Analyzed: 03/19/19 16:13 Lab File ID: LSMP4125.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	aguk	03/20/19 15:37
2-Hexanone		Invalid Compound ID	aguk	03/20/19 15:37

Lab Sample ID: 280-120962-6 Client Sample ID: 6MW2510

Date Analyzed: 03/19/19 16:38 Lab File ID: LSMP4126.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	aguk	03/20/19 15:38
Chloroethane		Invalid Compound ID	aguk	03/20/19 15:38

Lab Sample ID: 280-120962-7 Client Sample ID: 6MW2610

Date Analyzed: 03/19/19 17:02 Lab File ID: LSMP4127.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	aguk	03/20/19 15:39
Bromomethane		Invalid Compound ID	aguk	03/20/19 15:39
Vinyl chloride		Invalid Compound ID	aguk	03/20/19 15:39

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, St. Lo Job No.: 280-120962-1

SDG No.:

Instrument ID: VMSL Analysis Batch Number: 420035

Lab Sample ID: 280-120962-8 Client Sample ID: TB11

Date Analyzed: 03/19/19 17:27 Lab File ID: LSMP4128.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	aguk	03/20/19 15:40
Bromomethane		Invalid Compound ID	aguk	03/20/19 15:40

Lab Sample ID: 280-120962-9 Client Sample ID: FB07

Date Analyzed: 03/19/19 17:52 Lab File ID: LSMP4129.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	aguk	03/20/19 15:41
2-Hexanone		Invalid Compound ID	aguk	03/20/19 15:41
Bromomethane		Invalid Compound ID	aguk	03/20/19 15:40

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
TOC ICV Std_00036	07/31/19	Ricca, Lot 1807G06			(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm
TOC LCS Std_00045	11/30/20	Ultra Scientific, Lot CS-5157			(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260 NewWkMix_00319	03/24/19	03/17/19	Methanol, Lot DT961	10 mL	8260_2_CLEVE_00076	100 uL	2-Chloroethyl vinyl ether	25 ug/mL
					8260Custom1_00075	125 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	25 ug/mL
							n-Nonyl Aldehyde	25 ug/mL
					8260Cyclohexa_00076	100 uL	Cyclohexanone	250 ug/mL
					8260Gases_00302	100 uL	Bromomethane	25 ug/mL
							Butadiene	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Dichlorofluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					8260Ketones_00076	20 uL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
					8260MegaMix_00076	100 uL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							2-Methyl-2-propanol	250 ug/mL
							3-Chloro-1-propene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Cyclohexane	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexane	25 ug/mL
							Iodomethane	25 ug/mL
							Isobutyl alcohol	625 ug/mL
							Isopropylbenzene	25 ug/mL
							m,p-Xylenes	25 ug/mL
							Methyl acetate	125 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylcyclohexane	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							n-Heptane	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							trans-1,4-Dichloro-2-butene	25 ug/mL
							Trichloroethene	25 ug/mL
					8260VinAcetat_00080	50 uL	Vinyl acetate	25 ug/mL
					Acrolein_00071	62.5 uL	Acrolein	125 ug/mL
					Adds(A) 2016_00038	100 uL	1,2,3-Trimethylbenzene	25 ug/mL
							1,3,5-Trichlorobenzene	25 ug/mL
							1-Chlorohexane	25 ug/mL
							2-Chloro-1,3-butadiene	25 ug/mL
							2-Nitropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	25 ug/mL
							Isooctane	25 ug/mL
							Isopropyl alcohol	250 ug/mL
							Methacrylonitrile	250 ug/mL
							n-Butanol	625 ug/mL
					Adds(B) 2016_00038	100 uL	Ethyl acetate	50 ug/mL
							Ethyl acrylate	25 ug/mL
							Methyl methacrylate	50 ug/mL
							n-Butyl acetate	25 ug/mL
					Ethanol P_00026	100 uL	Ethanol	1000 ug/mL
					Polar Add._00068	100 uL	Acetonitrile	250 ug/mL
							Isopropyl ether	25 ug/mL
							Propionitrile	250 ug/mL
							Tert-amyl methyl ether	25 ug/mL
							Tert-butyl ethyl ether	25 ug/mL
.8260_2_CLEVE_00076	04/17/19		Restek, Lot A0133302		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00075	03/25/19		Accustandard, Lot 219021153		(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00076	04/17/19		Restek, Lot A0140237		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.8260Gases_00302	03/24/19		Restek, Lot A0143158		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260Ketones_00076	04/17/19		Restek, Lot A0137509		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.8260MegaMix_00076	04/17/19		Restek, Lot A0123711		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VinAcetat_00080	03/25/19		Restek, Lot A0144661		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00071	03/25/19		Restek, Lot A0141320		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00038	03/25/19		Restek, Lot A0135915		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.Adds(B) 2016_00038	03/25/19		Restek, Lot A0135442		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Ethanol P_00026	03/25/19		Restek, Lot A0135657		(Purchased Reagent)		Ethanol	100000 ug/mL
.Polar Add._00068	04/17/19		Restek, Lot A0139911		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260 Surr 25_00096	03/20/19	02/20/19	Methanol, Lot DT961	25 mL	8260_Surr_00078	250 uL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
							Toluene-d8 (Surr)	25 ug/mL
.8260_Surr_00078	03/20/19		Restek, Lot A0139582		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
							1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260NewHiWrk_00289	03/24/19	03/17/19	Methanol, Lot DT961	2 mL	8260_2_CLEVE_00076	100 uL	2-Chloroethyl vinyl ether	125 ug/mL
					8260Custom1_00075	125 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	125 ug/mL
							n-Nonyl Aldehyde	125 ug/mL
					8260Cyclohexa_00076	100 uL	Cyclohexanone	1250 ug/mL

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					8260Gases_00302	100 uL	Bromomethane	125 ug/mL
							Butadiene	125 ug/mL
							Chloroethane	125 ug/mL
							Chloromethane	125 ug/mL
							Dichlorodifluoromethane	125 ug/mL
							Dichlorofluoromethane	125 ug/mL
							Trichlorofluoromethane	125 ug/mL
							Vinyl chloride	125 ug/mL
					8260Ketones_00076	20 uL	2-Butanone (MEK)	125 ug/mL
							2-Hexanone	125 ug/mL
							4-Methyl-2-pentanone (MIBK)	125 ug/mL
							Acetone	125 ug/mL
					8260MegaMix_00076	100 uL	1,1,1,2-Tetrachloroethane	125 ug/mL
							1,1,1-Trichloroethane	125 ug/mL
							1,1,2,2-Tetrachloroethane	125 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	125 ug/mL
							1,1,2-Trichloroethane	125 ug/mL
							1,1-Dichloroethane	125 ug/mL
							1,1-Dichloroethene	125 ug/mL
							1,1-Dichloropropene	125 ug/mL
							1,2,3-Trichlorobenzene	125 ug/mL
							1,2,3-Trichloropropane	125 ug/mL
							1,2,4-Trichlorobenzene	125 ug/mL
							1,2,4-Trimethylbenzene	125 ug/mL
							1,2-Dibromo-3-Chloropropane	125 ug/mL
							1,2-Dibromoethane	125 ug/mL
							1,2-Dichlorobenzene	125 ug/mL
							1,2-Dichloroethane	125 ug/mL
							1,2-Dichloropropane	125 ug/mL
							1,3,5-Trimethylbenzene	125 ug/mL
							1,3-Dichlorobenzene	125 ug/mL
							1,3-Dichloropropane	125 ug/mL
							1,4-Dichlorobenzene	125 ug/mL
							1,4-Dioxane	2500 ug/mL
							2,2-Dichloropropane	125 ug/mL
							2-Chlorotoluene	125 ug/mL
							2-Methyl-2-propanol	1250 ug/mL
							3-Chloro-1-propene	125 ug/mL
							4-Chlorotoluene	125 ug/mL
							Acrylonitrile	1250 ug/mL
							Benzene	125 ug/mL
							Bromobenzene	125 ug/mL
							Bromochloromethane	125 ug/mL
							Bromodichloromethane	125 ug/mL
							Bromoform	125 ug/mL
							Carbon disulfide	125 ug/mL
							Carbon tetrachloride	125 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	125 ug/mL
							Chloroform	125 ug/mL
							cis-1,2-Dichloroethene	125 ug/mL
							cis-1,3-Dichloropropene	125 ug/mL
							Cyclohexane	125 ug/mL
							Dibromochloromethane	125 ug/mL
							Dibromomethane	125 ug/mL
							Ethyl ether	125 ug/mL
							Ethyl methacrylate	125 ug/mL
							Ethylbenzene	125 ug/mL
							Hexachlorobutadiene	125 ug/mL
							Hexane	125 ug/mL
							Iodomethane	125 ug/mL
							Isobutyl alcohol	3125 ug/mL
							Isopropylbenzene	125 ug/mL
							m,p-Xylenes	125 ug/mL
							Methyl acetate	625 ug/mL
							Methyl tert-butyl ether	125 ug/mL
							Methylcyclohexane	125 ug/mL
							Methylene Chloride	125 ug/mL
							n-Butylbenzene	125 ug/mL
							n-Heptane	125 ug/mL
							N-Propylbenzene	125 ug/mL
							Naphthalene	125 ug/mL
							o-Xylene	125 ug/mL
							p-Isopropyltoluene	125 ug/mL
							sec-Butylbenzene	125 ug/mL
							Styrene	125 ug/mL
							tert-Butylbenzene	125 ug/mL
							Tetrachloroethene	125 ug/mL
							Tetrahydrofuran	250 ug/mL
							Toluene	125 ug/mL
							trans-1,2-Dichloroethene	125 ug/mL
							trans-1,3-Dichloropropene	125 ug/mL
							trans-1,4-Dichloro-2-butene	125 ug/mL
							Trichloroethene	125 ug/mL
					8260VinAcetat_00080	50 uL	Vinyl acetate	125 ug/mL
					Acrolein_00071	62.5 uL	Acrolein	625 ug/mL
					Adds(A) 2016_00038	100 uL	1,2,3-Trimethylbenzene	125 ug/mL
							1,3,5-Trichlorobenzene	125 ug/mL
							1-Chlorohexane	125 ug/mL
							2-Chloro-1,3-butadiene	125 ug/mL
							2-Nitropropane	250 ug/mL
							Benzyl chloride	125 ug/mL
							Isooctane	125 ug/mL
							Isopropyl alcohol	1250 ug/mL
							Methacrylonitrile	1250 ug/mL
							n-Butanol	3125 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					Adds(B) 2016_00038	100 uL	Ethyl acetate	250 ug/mL
							Ethyl acrylate	125 ug/mL
							Methyl methacrylate	250 ug/mL
							n-Butyl acetate	125 ug/mL
					Ethanol P_00026	100 uL	Ethanol	5000 ug/mL
					Polar Add._00068	100 uL	Acetonitrile	1250 ug/mL
							Isopropyl ether	125 ug/mL
							Propionitrile	1250 ug/mL
							Tert-amyl methyl ether	125 ug/mL
							Tert-butyl ethyl ether	125 ug/mL
.8260_2_CLEVE_00076	04/17/19		Restek, Lot A0133302		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00075	03/25/19		Accustandard, Lot 219021153		(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00076	04/17/19		Restek, Lot A0140237		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.8260Gases_00302	03/24/19		Restek, Lot A0143158		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260Ketones_00076	04/17/19		Restek, Lot A0137509		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.8260MegaMix_00076	04/17/19		Restek, Lot A0123711		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VinAcetat_00080	03/25/19		Restek, Lot A0144661		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00071	03/25/19		Restek, Lot A0141320		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00038	03/25/19		Restek, Lot A0135915		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.Adds(B) 2016_00038	03/25/19		Restek, Lot A0135442		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Ethanol P_00026	03/25/19		Restek, Lot A0135657		(Purchased Reagent)		Ethanol	100000 ug/mL
.Polar Add._00068	04/17/19		Restek, Lot A0139911		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260NewICVMix_00306	03/24/19	03/17/19	Methanol, Lot DT961	5 mL	8260GasesSS_00298	50 uL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					8260KetonesSS_00074	10 uL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
					8260MegaMixSS_00074	50 uL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dibromoethane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Isopropylbenzene	25 ug/mL
							m,p-Xylenes	25 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
.8260GasesSS_00298	03/24/19		Restek, Lot A0142117		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260KetonesSS_00074	04/07/19		Restek, Lot A014019		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260MegaMixSS_00074	04/07/19		Restek, Lot A0123775		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
BFB_00093							1,2-Dichloroethene, Total	
							BFB	25 ug/mL
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Xylenes (total)	
I.S. Working_00174	03/22/19	02/22/19	Methanol, Lot DT961	25 mL	8260 IS(2014)_00063	250 uL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene	25 ug/mL
.8260 IS(2014)_00063	03/22/19	Restek, Lot A0138856			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL

Reagent

TOC ICV Std_00036

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Certificate of Analysis

Organic Carbon Standard, 1000 ppm C

Lot Number: 1807G06 **Product Number:** 1847

Manufacture Date: JUL 18, 2018
Expiration Date: JUL 2019

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Phosphoric Acid	7664-38-2	ACS
Potassium Acid Phthalate	877-24-7	ACS Acidimetric

Test	Specification	Result
Appearance	Colorless liquid	Passed
Carbon (C)	995-1005 ppm	1000 ppm

Specification	Reference
Organic Carbon Stock Solution	APHA (5310 B)
Potassium Hydrogen Phthalate, Stock Solution	EPA (SW-846) (9060)
Potassium Hydrogen Phthalate, Stock Solution, 1000 mg Carbon/liter	EPA (415.1)
Organic Carbon Solution, Standard (1 mL = 1 mg C)	ASTM (D 2579)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1847-16	500 mL amber glass	12 months
1847-32	1 L amber glass	12 months
1847-4	120 mL amber glass	12 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Israel Alamudun (07/18/2018)
Quality Control Supervisor
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Reagent

TOC LCS Std_00045

Agilent

Certificate of Analysis
ISO Guide 34

Product Number: IQC-106
Lot Number: CS-5157

Lot Issue Date: 26-Oct 2018
Expiration Date: 30-Nov 2020

Product Name: Total Organic Carbon (TOC) Standard

Description:
This Reference Material (RM) was gravimetrically prepared in accordance with ISO Guide 34 and under Agilent's ISO 9001 registered quality system. The neat materials used for this product have been verified by Agilent's ISO 17025 laboratory and under Agilent's ISO Guide 34 accreditation. The analyte concentrations were verified by Agilent's ISO 17025 accredited laboratory. For each analyte, the true value, with its uncertainty value calculated at the 95% confidence level, is reported below.

Analyte	Starting Material	Lot Number	Purity (%)	Analyte Concentration	Traceability & Method
TOC	potassium hydrogen phthalate	RM14067	99.97	1001 ± 5 µg/mL	NZ06408; TOC Analyzer

Solvent: water (low TOC, <50 ppb)

Storage: Store at Room Temperature (15° to 30°C).

Traceability:
Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1, ISO 9001, ISO 17025, and ISO Guide 34. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

Estimation of Uncertainties:
The true value is reported, with its uncertainty value calculated at the 95% confidence level.

Homogeneity:
This RM was formulated and unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening and should be processed without delay for the true value to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipetting to the bottle. Tightly cap the bottle after removing any material and store according to the instructions noted above.

Hazards:
Refer to the Safety Data Sheet for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO Guide 34 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.ultrasci.com

Certificate of Analysis
ISO Guide 34

Product Number: IQC-106
Lot Number: CS-5157

Lot Issue Date: 26-Oct 2018
Expiration Date: 30-Nov 2020

Maintenance of Certification:
The real-time, long term stability of the RM may be monitored over the lifetime of the certification. If substantive changes occur that affect the certification before the expiration of this certificate, Agilent Technologies will notify the purchaser.

Monica Bourgeois
QMS Representative

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO Guide 34 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED TESTING LABORATORY
ISO17025 Cert No. AT-1937

Reagent

8260 IS(2014)_00063

Received by KA 12/18/18
1646203-7

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30241 **Lot No.:** A0138856

Description : 8260A Internal Standard Mix

8260A Internal Standard Mix 2,500 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Fluorobenzene	2,519.8 µg/mL	+/- 14.6503 µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBK8171V)		+/- 141.2827 µg/mL	Unstressed
	Purity 99%		+/- 144.5885 µg/mL	Stressed
2	Chlorobenzene-d5	2,506.4 µg/mL	+/- 14.5724 µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-23926)		+/- 140.5314 µg/mL	Unstressed
	Purity 99%		+/- 143.8196 µg/mL	Stressed
3	1,4-Dichlorobenzene-d4	2,516.5 µg/mL	+/- 14.6311 µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-18488)		+/- 141.0977 µg/mL	Unstressed
	Purity 99%		+/- 144.3992 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

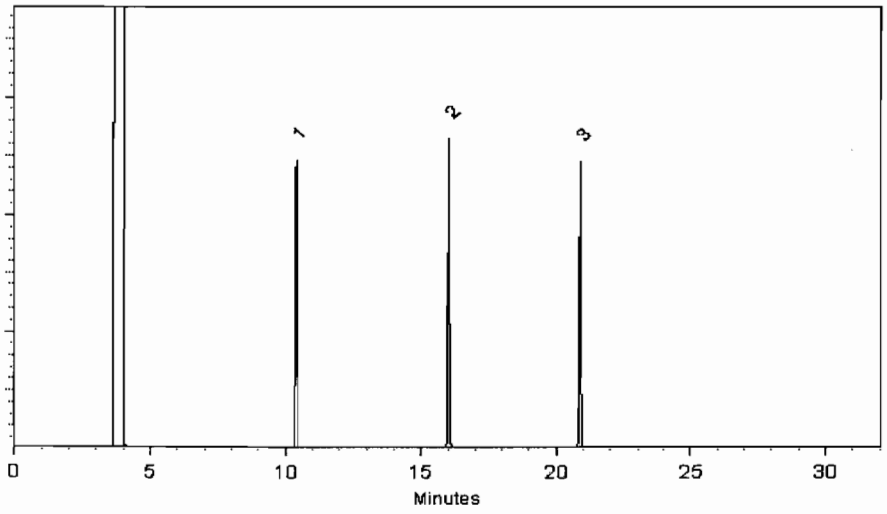
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Larry J. Moore - Mix Technician **Date Mixed:** 13-Jun-2018 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 18-Jun-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

8260_Surr_00078

Received by KA 12/17/18
16425S6, 1642630-32, 1642910

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0139582

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 **Purity** 99%	(Lot 0012017)	2,500.5 µg/mL	+/- 14.5381 µg/mL +/- 140.2006 µg/mL +/- 143.4811 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 **Purity** 99%	(Lot PR-26748)	2,500.4 µg/mL	+/- 14.5375 µg/mL +/- 140.1949 µg/mL +/- 143.4753 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 **Purity** 99%	(Lot PR-27981)	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 **Purity** 99%	(Lot 20401KO)	2,500.4 µg/mL	+/- 14.5375 µg/mL +/- 140.1949 µg/mL +/- 143.4753 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

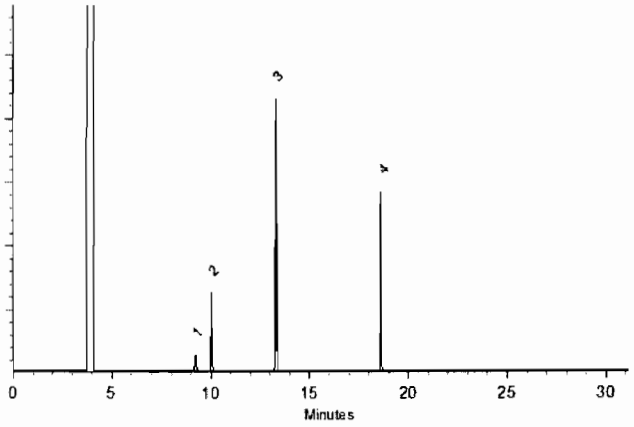
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maye

Date Mixed: 12-Jul-2018 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 16-Jul-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

Adds(A) 2016_00038

Received KA 1/7/19

1625519-21, 1630196, 1651289

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808 **Lot No.:** A0135915

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) **CAS #** 67-63-0 (Lot SHBG4888V) **Purity** 99%	25,201.5 µg/mL	+/- 147.5603 µg/mL +/- 1,246.7862 µg/mL +/- 1,277.7827 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 (Lot 180302JLM) **Purity** 99%	2,510.0 µg/mL	+/- 14.7301 µg/mL +/- 124.1804 µg/mL +/- 127.2675 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 (Lot 1012014) **Purity** 99%	25,081.5 µg/mL	+/- 146.8577 µg/mL +/- 1,240.8495 µg/mL +/- 1,271.6983 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 (Lot SHBD2922V) **Purity** 99%	2,523.0 µg/mL	+/- 14.8064 µg/mL +/- 124.8236 µg/mL +/- 127.9267 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 (Lot SHBH9510) **Purity** 99%	62,543.5 µg/mL	+/- 366.1871 µg/mL +/- 3,094.1935 µg/mL +/- 3,171.1186 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 (Lot BCBL0537V) **Purity** 98%	5,026.4 µg/mL	+/- 29.4308 µg/mL +/- 248.6706 µg/mL +/- 254.8528 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 (Lot 05107LK) **Purity** 98%	2,519.1 µg/mL	+/- 14.7834 µg/mL +/- 124.6302 µg/mL +/- 127.7284 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene		2,502.6	µg/mL	+/-	14.6867	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 877605-13)			+/-	123.8143	µg/mL	Unstressed
	Purity 97%				+/-	126.8923	µg/mL	Stressed
9	Benzyl chloride		2,513.5	µg/mL	+/-	14.7506	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBB7346V)			+/-	124.3536	µg/mL	Unstressed
	Purity 99%				+/-	127.4450	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,501.5	µg/mL	+/-	14.6802	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	123.7599	µg/mL	Unstressed
	Purity 99%				+/-	126.8365	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

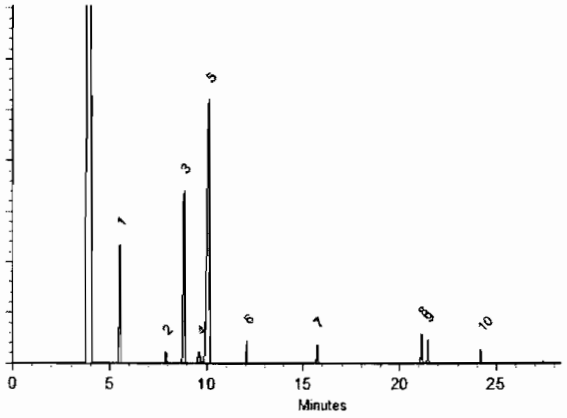
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust
Cydnei L Crust - Mix Technician

Date Mixed: 06-Mar-2018 **Balance:** B707717271

Justine Alberteon - Operations Tech-ARM QC

Date Passed: 08-Mar-2018

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

Adds(B) 2016_00038

Received by KA 1/7/19
1625524, 26, 1630197, 1651296

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809 **Lot No.:** A0135442

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertaint / (95% C.L.; K=2)	
1	Ethyl acetate **CAS #** 141-78-6 (Lot SHBH7407) **Purity** 99%	5,048.8 µg/mL	+/- 29.5618 µg/mL +/- 304.6366 µg/mL +/- 305.3597 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5 (Lot 10129902) **Purity** 99%	2,522.8 µg/mL	+/- 14.8052 µg/mL +/- 152.2250 µg/mL +/- 152.5864 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6 (Lot MKBH4379V) **Purity** 99%	5,048.0 µg/mL	+/- 29.5572 µg/mL +/- 304.5883 µg/mL +/- 305.3113 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4 (Lot SHBH0056V) **Purity** 99%	2,522.0 µg/mL	+/- 14.8005 µg/mL +/- 152.1767 µg/mL +/- 152.5380 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

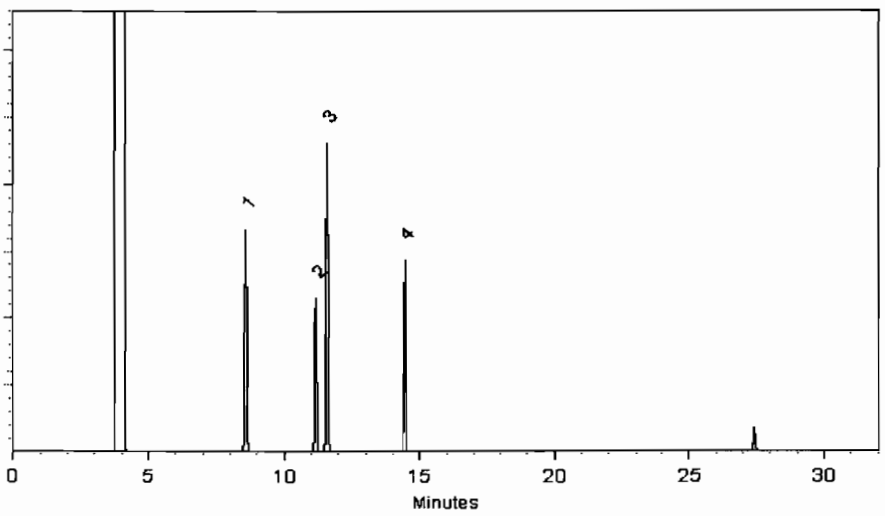
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 21-Feb-2018 **Balance:** B707717271

Amanda Miller - Operations Tech-ARM QC

Date Passed: 23-Feb-2018

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

BFB_00093

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

REC'D 10-19-18
JDH

1598210-Z14

Catalog No: CLP-004
Description: p-Bromofluorobenzene
Lot: 218021157
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Feb 9, 2018
Expiration: Feb 9, 2028
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
p-Bromofluorobenzene	460-00-4	99.9	25.06	25.03

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] All weights are traceable through NIST, Test No. 822-275872-11

[2] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By: _____
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

Method 8260C DOD

Volatile Organic Compounds (GC/MS) by Method 8260C DOD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-VMS40 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
6MW2010	280-120962-1	100	102	104	110
6MW2010D	280-120962-2	101	104	106	114
6MW2210	280-120962-3	101	102	105	112
6MW2310	280-120962-4	101	101	105	114
6MW2410	280-120962-5	101	99	106	112
6MW2510	280-120962-6	102	101	106	113
6MW2610	280-120962-7	101	101	105	110
TB11	280-120962-8	102	103	107	113
FB07	280-120962-9	99	99	104	111
	MB 160-420035/7	98	104	104	107
	LCS 160-420035/4	100	100	101	103
	LCSD 160-420035/5	101	98	105	106
6MW2010MS MS	280-120962-1 MS	105	101	104	109
6MW2010MSD MSD	280-120962-1 MSD	104	98	105	109

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	80-119
DCA = 1,2-Dichloroethane-d4 (Surr)	81-118
TOL = Toluene-d8 (Surr)	89-112
BFB = 4-Bromofluorobenzene (Surr)	85-114

Column to be used to flag recovery values

FORM II 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LLCS4114.D

Lab ID: LCS 160-420035/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	48.7	97	78-124	
1,1,1-Trichloroethane	50.0	47.4	95	74-131	
1,1,2,2-Tetrachloroethane	50.0	51.7	103	71-121	
1,1,2-Trichloroethane	50.0	50.2	100	80-119	
1,1-Dichloroethane	50.0	47.4	95	77-125	
1,1-Dichloroethene	50.0	48.6	97	71-131	
1,1-Dichloropropene	50.0	48.5	97	79-125	
1,2,3-Trichlorobenzene	50.0	49.1	98	69-129	
1,2,3-Trichloropropane	50.0	52.0	104	73-122	
1,2,4-Trimethylbenzene	50.0	49.9	100	76-124	
1,2-Dibromo-3-Chloropropane	50.0	47.3	95	62-128	
1,2-Dibromoethane	50.0	51.4	103	80-120	
1,2-Dichloroethane	50.0	47.2	94	73-128	
1,2-Dichloropropane	50.0	48.4	97	78-122	
1,3,5-Trimethylbenzene	50.0	50.2	100	75-124	
1,3-Dichloropropane	50.0	51.1	102	80-119	
2,2-Dichloropropane	50.0	48.0	96	60-139	
2-Butanone (MEK)	50.0	51.4	103	56-143	
2-Chlorotoluene	50.0	48.7	97	79-122	
2-Hexanone	50.0	46.5	93	57-139	
4-Chlorotoluene	50.0	49.0	98	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	46.2	92	67-130	
Acetone	50.0	50.2	100	39-160	
Benzene	50.0	46.2	92	79-120	
Bromobenzene	50.0	48.8	98	80-120	
Bromochloromethane	50.0	48.6	97	78-123	
Bromodichloromethane	50.0	48.9	98	79-125	
Bromoform	50.0	45.6	91	66-130	
Bromomethane	50.0	41.8	84	53-141	
Carbon disulfide	50.0	48.7	97	64-133	
Carbon tetrachloride	50.0	47.3	95	72-136	
Chlorobenzene	50.0	48.0	96	82-118	
Chloroethane	50.0	41.2	82	60-138	
Chloroform	50.0	47.8	96	79-124	
Chloromethane	50.0	48.1	96	50-139	
cis-1,2-Dichloroethene	50.0	48.6	97	78-123	
cis-1,3-Dichloropropene	50.0	49.8	100	75-124	
Dibromochloromethane	50.0	50.9	102	74-126	
Dibromomethane	50.0	48.9	98	79-123	
Dichlorodifluoromethane	50.0	48.2	96	32-152	
Ethylbenzene	50.0	48.2	96	79-121	
Isopropylbenzene	50.0	49.9	100	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LLCS4114.D

Lab ID: LCS 160-420035/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	50.2	100	80-121	
Methyl tert-butyl ether	50.0	49.7	99	71-124	
Methylene Chloride	50.0	47.6	95	74-124	
Naphthalene	50.0	53.8	108	61-128	
n-Butylbenzene	50.0	50.4	101	75-128	
N-Propylbenzene	50.0	50.1	100	76-126	
o-Xylene	50.0	52.5	105	78-122	
p-Isopropyltoluene	50.0	50.2	100	77-127	
sec-Butylbenzene	50.0	49.5	99	77-126	
Styrene	50.0	46.2	92	78-123	
tert-Butylbenzene	50.0	49.4	99	78-124	
Tetrachloroethene	50.0	46.9	94	74-129	
Toluene	50.0	49.8	100	80-121	
trans-1,2-Dichloroethene	50.0	47.9	96	75-124	
trans-1,3-Dichloropropene	50.0	51.5	103	73-127	
Trichloroethene	50.0	46.1	92	79-123	
Trichlorofluoromethane	50.0	46.6	93	65-141	
Vinyl chloride	50.0	48.9	98	58-137	
Xylenes (total)	100	103	103	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LLCS4115.D

Lab ID: LCSD 160-420035/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	49.5	99	2	20	78-124	
1,1,1-Trichloroethane	50.0	48.1	96	2	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	49.0	98	5	20	71-121	
1,1,2-Trichloroethane	50.0	48.7	97	3	20	80-119	
1,1-Dichloroethane	50.0	47.6	95	0	20	77-125	
1,1-Dichloroethene	50.0	49.0	98	1	20	71-131	
1,1-Dichloropropene	50.0	49.2	98	2	20	79-125	
1,2,3-Trichlorobenzene	50.0	49.9	100	2	20	69-129	
1,2,3-Trichloropropane	50.0	49.7	99	5	20	73-122	
1,2,4-Trimethylbenzene	50.0	51.3	103	3	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	43.9	88	7	20	62-128	
1,2-Dibromoethane	50.0	49.2	98	4	20	80-120	
1,2-Dichloroethane	50.0	45.9	92	3	20	73-128	
1,2-Dichloropropane	50.0	47.8	96	1	20	78-122	
1,3,5-Trimethylbenzene	50.0	52.1	104	4	20	75-124	
1,3-Dichloropropane	50.0	49.9	100	2	20	80-119	
2,2-Dichloropropane	50.0	48.4	97	1	20	60-139	
2-Butanone (MEK)	50.0	47.0	94	9	20	56-143	
2-Chlorotoluene	50.0	50.2	100	3	20	79-122	
2-Hexanone	50.0	43.1	86	8	20	57-139	
4-Chlorotoluene	50.0	50.5	101	3	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	43.9	88	5	20	67-130	
Acetone	50.0	46.1	92	8	20	39-160	
Benzene	50.0	46.0	92	0	20	79-120	
Bromobenzene	50.0	49.1	98	1	20	80-120	
Bromochloromethane	50.0	47.7	95	2	20	78-123	
Bromodichloromethane	50.0	48.2	96	1	20	79-125	
Bromoform	50.0	43.8	88	4	20	66-130	
Bromomethane	50.0	40.1	80	4	20	53-141	
Carbon disulfide	50.0	49.3	99	1	20	64-133	
Carbon tetrachloride	50.0	47.2	94	0	20	72-136	
Chlorobenzene	50.0	49.2	98	2	20	82-118	
Chloroethane	50.0	46.1	92	11	20	60-138	
Chloroform	50.0	47.8	96	0	20	79-124	
Chloromethane	50.0	48.2	96	0	20	50-139	
cis-1,2-Dichloroethene	50.0	48.6	97	0	20	78-123	
cis-1,3-Dichloropropene	50.0	49.5	99	1	20	75-124	
Dibromochloromethane	50.0	50.2	100	1	20	74-126	
Dibromomethane	50.0	46.5	93	5	20	79-123	
Dichlorodifluoromethane	50.0	48.6	97	1	20	32-152	
Ethylbenzene	50.0	49.1	98	2	20	79-121	
Isopropylbenzene	50.0	51.9	104	4	20	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LLCS4115.D

Lab ID: LCSD 160-420035/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m,p-Xylenes	50.0	51.9	104	3	20	80-121	
Methyl tert-butyl ether	50.0	47.9	96	4	20	71-124	
Methylene Chloride	50.0	47.3	95	1	20	74-124	
Naphthalene	50.0	51.6	103	4	20	61-128	
n-Butylbenzene	50.0	52.0	104	3	20	75-128	
N-Propylbenzene	50.0	51.7	103	3	20	76-126	
o-Xylene	50.0	53.4	107	2	20	78-122	
p-Isopropyltoluene	50.0	51.8	104	3	20	77-127	
sec-Butylbenzene	50.0	51.1	102	3	20	77-126	
Styrene	50.0	46.9	94	1	20	78-123	
tert-Butylbenzene	50.0	51.0	102	3	20	78-124	
Tetrachloroethene	50.0	48.7	97	4	20	74-129	
Toluene	50.0	50.6	101	2	20	80-121	
trans-1,2-Dichloroethene	50.0	48.6	97	2	20	75-124	
trans-1,3-Dichloropropene	50.0	51.1	102	1	20	73-127	
Trichloroethene	50.0	46.7	93	1	20	79-123	
Trichlorofluoromethane	50.0	47.4	95	2	20	65-141	
Vinyl chloride	50.0	49.1	98	0	20	58-137	
Xylenes (total)	100	105	105	3	20	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LSMP4119.D

Lab ID: 280-120962-1 MS Client ID: 6MW2010MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	2.5 U	49.2	98	78-124	
1,1,1-Trichloroethane	50.0	2.5 U	48.0	96	74-131	
1,1,2,2-Tetrachloroethane	50.0	2.5 U	48.6	97	71-121	
1,1,2-Trichloroethane	50.0	2.5 U	48.4	97	80-119	
1,1-Dichloroethane	50.0	2.5 U	48.2	96	77-125	
1,1-Dichloroethene	50.0	2.5 U	48.9	98	71-131	
1,1-Dichloropropene	50.0	2.5 U	48.7	97	79-125	
1,2,3-Trichlorobenzene	50.0	2.5 U	45.2	90	69-129	
1,2,3-Trichloropropane	50.0	2.5 U	48.3	97	73-122	
1,2,4-Trimethylbenzene	50.0	2.5 U	50.6	101	76-124	
1,2-Dibromo-3-Chloropropane	50.0	5.0 U	41.4	83	62-128	
1,2-Dibromoethane	50.0	2.5 U	49.1	98	80-120	
1,2-Dichloroethane	50.0	2.5 U	46.5	93	73-128	
1,2-Dichloropropane	50.0	2.5 U	48.2	96	78-122	
1,3,5-Trimethylbenzene	50.0	2.5 U	51.4	103	75-124	
1,3-Dichloropropane	50.0	2.5 U	49.2	98	80-119	
2,2-Dichloropropane	50.0	2.5 U	48.9	98	60-139	
2-Butanone (MEK)	50.0	15 J	65.6	101	56-143	
2-Chlorotoluene	50.0	2.5 U	49.9	100	79-122	
2-Hexanone	50.0	5.0 U	43.5	87	57-139	
4-Chlorotoluene	50.0	2.5 U	50.7	101	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	10 U	43.7	87	67-130	
Acetone	50.0	10 U	50.3	101	39-160	
Benzene	50.0	2.5 U	46.8	94	79-120	
Bromobenzene	50.0	2.5 U	49.5	99	80-120	
Bromochloromethane	50.0	2.5 U	48.0	96	78-123	
Bromodichloromethane	50.0	2.5 U	48.5	97	79-125	
Bromoform	50.0	2.5 U	43.8	88	66-130	
Bromomethane	50.0	5.0 U	36.4	73	53-141	
Carbon disulfide	50.0	2.5 U	49.1	98	64-133	
Carbon tetrachloride	50.0	2.5 U	47.6	95	72-136	
Chlorobenzene	50.0	2.5 U	48.5	97	82-118	
Chloroethane	50.0	2.5 U	18.7	37	60-138	J1
Chloroform	50.0	2.5 U	48.1	96	79-124	
Chloromethane	50.0	2.5 U	47.3	95	50-139	
cis-1,2-Dichloroethene	50.0	0.92 J	50.2	99	78-123	
cis-1,3-Dichloropropene	50.0	5.0 U	49.7	99	75-124	
Dibromochloromethane	50.0	2.5 U	49.6	99	74-126	
Dibromomethane	50.0	2.5 U	47.3	95	79-123	
Dichlorodifluoromethane	50.0	2.5 U	48.6	97	32-152	
Ethylbenzene	50.0	2.5 U	48.4	97	79-121	
Isopropylbenzene	50.0	2.5 U	51.1	102	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LSMP4119.D

Lab ID: 280-120962-1 MS Client ID: 6MW2010MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	2.5 U	50.8	102	80-121	
Methyl tert-butyl ether	50.0	2.5 U	50.2	100	71-124	
Methylene Chloride	50.0	5.0 U	48.7	97	74-124	
Naphthalene	50.0	5.0 U	47.4	95	61-128	
n-Butylbenzene	50.0	2.5 U	50.3	101	75-128	
N-Propylbenzene	50.0	2.5 U	51.1	102	76-126	
o-Xylene	50.0	2.5 U	52.8	106	78-122	
p-Isopropyltoluene	50.0	2.5 U	50.6	101	77-127	
sec-Butylbenzene	50.0	2.5 U	49.9	100	77-126	
Styrene	50.0	2.5 U	46.4	93	78-123	
tert-Butylbenzene	50.0	2.5 U	50.2	100	78-124	
Tetrachloroethene	50.0	2.5 U	46.8	94	74-129	
Toluene	50.0	5.0 U	50.0	100	80-121	
trans-1,2-Dichloroethene	50.0	2.5 U	49.3	99	75-124	
trans-1,3-Dichloropropene	50.0	2.5 U	51.8	104	73-127	
Trichloroethene	50.0	2.5 U	45.9	92	79-123	
Trichlorofluoromethane	50.0	2.5 U	36.1	72	65-141	
Vinyl chloride	50.0	2.0 U	48.1	96	58-137	
Xylenes (total)	100	5.0 U	104	104	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LSMP4120.D

Lab ID: 280-120962-1 MSD Client ID: 6MW2010MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	49.9	100	1	20	78-124	
1,1,1-Trichloroethane	50.0	48.2	96	0	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	47.1	94	3	20	71-121	
1,1,2-Trichloroethane	50.0	48.3	97	0	20	80-119	
1,1-Dichloroethane	50.0	48.2	96	0	20	77-125	
1,1-Dichloroethene	50.0	48.9	98	0	20	71-131	
1,1-Dichloropropene	50.0	48.7	97	0	20	79-125	
1,2,3-Trichlorobenzene	50.0	46.4	93	3	20	69-129	
1,2,3-Trichloropropane	50.0	47.4	95	2	20	73-122	
1,2,4-Trimethylbenzene	50.0	51.6	103	2	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	40.8	82	1	20	62-128	
1,2-Dibromoethane	50.0	49.2	98	0	20	80-120	
1,2-Dichloroethane	50.0	45.7	91	2	20	73-128	
1,2-Dichloropropane	50.0	48.4	97	1	20	78-122	
1,3,5-Trimethylbenzene	50.0	52.6	105	2	20	75-124	
1,3-Dichloropropane	50.0	49.1	98	0	20	80-119	
2,2-Dichloropropane	50.0	49.3	99	1	20	60-139	
2-Butanone (MEK)	50.0	62.7	96	4	20	56-143	
2-Chlorotoluene	50.0	50.7	101	2	20	79-122	
2-Hexanone	50.0	41.4	83	5	20	57-139	
4-Chlorotoluene	50.0	51.8	104	2	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	42.8	86	2	20	67-130	
Acetone	50.0	47.9	96	5	20	39-160	
Benzene	50.0	46.5	93	1	20	79-120	
Bromobenzene	50.0	50.0	100	1	20	80-120	
Bromochloromethane	50.0	47.3	95	1	20	78-123	
Bromodichloromethane	50.0	48.2	96	1	20	79-125	
Bromoform	50.0	43.0	86	2	20	66-130	
Bromomethane	50.0	37.4	75	3	20	53-141	
Carbon disulfide	50.0	49.1	98	0	20	64-133	
Carbon tetrachloride	50.0	48.3	97	1	20	72-136	
Chlorobenzene	50.0	49.5	99	2	20	82-118	
Chloroethane	50.0	19.1	38	2	20	60-138	J1
Chloroform	50.0	47.2	94	2	20	79-124	
Chloromethane	50.0	48.6	97	3	20	50-139	
cis-1,2-Dichloroethene	50.0	49.9	98	1	20	78-123	
cis-1,3-Dichloropropene	50.0	49.4	99	0	20	75-124	
Dibromochloromethane	50.0	50.0	100	1	20	74-126	
Dibromomethane	50.0	46.1	92	2	20	79-123	
Dichlorodifluoromethane	50.0	48.6	97	0	20	32-152	
Ethylbenzene	50.0	49.8	100	3	20	79-121	
Isopropylbenzene	50.0	52.6	105	3	20	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LSMP4120.D

Lab ID: 280-120962-1 MSD Client ID: 6MW2010MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m,p-Xylenes	50.0	51.7	103	2	20	80-121	
Methyl tert-butyl ether	50.0	48.7	97	3	20	71-124	
Methylene Chloride	50.0	48.7	97	0	20	74-124	
Naphthalene	50.0	47.7	95	1	20	61-128	
n-Butylbenzene	50.0	51.4	103	2	20	75-128	
N-Propylbenzene	50.0	52.3	105	2	20	76-126	
o-Xylene	50.0	54.4	109	3	20	78-122	
p-Isopropyltoluene	50.0	51.5	103	2	20	77-127	
sec-Butylbenzene	50.0	51.0	102	2	20	77-126	
Styrene	50.0	47.2	94	2	20	78-123	
tert-Butylbenzene	50.0	51.2	102	2	20	78-124	
Tetrachloroethene	50.0	48.3	97	3	20	74-129	
Toluene	50.0	51.0	102	2	20	80-121	
trans-1,2-Dichloroethene	50.0	49.3	99	0	20	75-124	
trans-1,3-Dichloropropene	50.0	51.1	102	1	20	73-127	
Trichloroethene	50.0	46.3	93	1	20	79-123	
Trichlorofluoromethane	50.0	44.8	90	21	20	65-141	J1
Vinyl chloride	50.0	49.3	99	3	20	58-137	
Xylenes (total)	100	106	106	2	20	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Lab File ID: LBLK4117.D Lab Sample ID: MB 160-420035/7

Matrix: Water Heated Purge:(Y/N) Y

Instrument ID: VMSL Date Analyzed: 03/19/2019 12:55

GC Column: RTX-VMS40 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 160-420035/4	LLCS4114.D	03/19/2019 11:41
	LCSD 160-420035/5	LLCS4115.D	03/19/2019 12:06
6MW2010	280-120962-1	LSMP4118.D	03/19/2019 13:20
6MW2010MS MS	280-120962-1 MS	LSMP4119.D	03/19/2019 13:45
6MW2010MSD MSD	280-120962-1 MSD	LSMP4120.D	03/19/2019 14:09
6MW2010D	280-120962-2	LSMP4122.D	03/19/2019 14:59
6MW2210	280-120962-3	LSMP4123.D	03/19/2019 15:24
6MW2310	280-120962-4	LSMP4124.D	03/19/2019 15:48
6MW2410	280-120962-5	LSMP4125.D	03/19/2019 16:13
6MW2510	280-120962-6	LSMP4126.D	03/19/2019 16:38
6MW2610	280-120962-7	LSMP4127.D	03/19/2019 17:02
TB11	280-120962-8	LSMP4128.D	03/19/2019 17:27
FB07	280-120962-9	LSMP4129.D	03/19/2019 17:52

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Lab File ID: LBFB4076.D BFB Injection Date: 03/18/2019

Instrument ID: VMSL BFB Injection Time: 10:06

Analysis Batch No.: 419780

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	
75	30.0 - 60.0 % of mass 95	53.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	82.9	
175	5.0 - 9.0 % of mass 174	6.2	(7.5) 1
176	95.0 - 101.0 % of mass 174	81.0	(97.7) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 160-419780/3	LICL4077.D	03/18/2019	10:33
	IC 160-419780/4	LICL4078.D	03/18/2019	10:58
	IC 160-419780/6	LICL4080.D	03/18/2019	11:47
	IC 160-419780/7	LICL4081.D	03/18/2019	12:12
	ICIS 160-419780/8	LICL4082.D	03/18/2019	12:36
	IC 160-419780/9	LICL4083.D	03/18/2019	13:01
	IC 160-419780/10	LICL4084.D	03/18/2019	13:26
	IC 160-419780/16	LICL4090.D	03/18/2019	17:13
	ICV 160-419780/17	LICV4091.D	03/18/2019	18:07

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Lab File ID: LBFB4112.D BFB Injection Date: 03/19/2019

Instrument ID: VMSL BFB Injection Time: 10:49

Analysis Batch No.: 420035

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.9	
75	30.0 - 60.0 % of mass 95	54.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	79.2	
175	5.0 - 9.0 % of mass 174	6.0	(7.5) 1
176	95.0 - 101.0 % of mass 174	77.6	(97.9) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 160-420035/3	LCCV4113.D	03/19/2019	11:17
	LCS 160-420035/4	LLCS4114.D	03/19/2019	11:41
	LCSD 160-420035/5	LLCS4115.D	03/19/2019	12:06
	MB 160-420035/7	LBLK4117.D	03/19/2019	12:55
6MW2010	280-120962-1	LSMP4118.D	03/19/2019	13:20
6MW2010MS MS	280-120962-1 MS	LSMP4119.D	03/19/2019	13:45
6MW2010MSD MSD	280-120962-1 MSD	LSMP4120.D	03/19/2019	14:09
6MW2010D	280-120962-2	LSMP4122.D	03/19/2019	14:59
6MW2210	280-120962-3	LSMP4123.D	03/19/2019	15:24
6MW2310	280-120962-4	LSMP4124.D	03/19/2019	15:48
6MW2410	280-120962-5	LSMP4125.D	03/19/2019	16:13
6MW2510	280-120962-6	LSMP4126.D	03/19/2019	16:38
6MW2610	280-120962-7	LSMP4127.D	03/19/2019	17:02
TB11	280-120962-8	LSMP4128.D	03/19/2019	17:27
FB07	280-120962-9	LSMP4129.D	03/19/2019	17:52
	CCVC 160-420035/21	LCCV4131.D	03/19/2019	18:41

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

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Sample No.: ICIS 160-419780/8 Date Analyzed: 03/18/2019 12:36

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm)

Lab File ID (Standard): LICL4082.D Heated Purge: (Y/N) Y

Calibration ID: 15690

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1009256	9.06	654003	11.91	319964	14.07
UPPER LIMIT		2018512	9.56	1308006	12.41	639928	14.57
LOWER LIMIT		504628	8.56	327002	11.41	159982	13.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 160-419780/17		997293	9.06	654766	11.89	317594	14.07
CCV 160-420035/3		994509	9.06	626036	11.89	299567	14.07
LCS 160-420035/4		1035514	9.06	654325	11.91	315409	14.07
LCSD 160-420035/5		1037784	9.06	638587	11.91	305729	14.07
MB 160-420035/7		1012797	9.06	630959	11.91	298158	14.07
280-120962-1	6MW2010	1026533	9.06	641046	11.91	299326	14.07
280-120962-1 MS	6MW2010MS MS	1054584	9.06	661725	11.91	313622	14.07
280-120962-1 MSD	6MW2010MSD MSD	1078915	9.06	668595	11.91	316640	14.07
280-120962-2	6MW2010D	1059679	9.06	654292	11.91	298713	14.07
280-120962-3	6MW2210	970960	9.06	596326	11.91	274842	14.07
280-120962-4	6MW2310	1054267	9.06	652996	11.91	300164	14.07
280-120962-5	6MW2410	1011918	9.06	621973	11.91	285556	14.07
280-120962-6	6MW2510	1029708	9.06	634350	11.91	293085	14.07
280-120962-7	6MW2610	1033317	9.06	638156	11.91	298679	14.07
280-120962-8	TB11	1026540	9.06	632278	11.91	293408	14.07
280-120962-9	FB07	1033588	9.06	634547	11.91	289251	14.07
CCVC 160-420035/21		1063836	9.06	658595	11.91	314989	14.07

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C DOD

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2010 Lab Sample ID: 280-120962-1

Matrix: Water Lab File ID: LSMP4118.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 13:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	2.5	U	5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	15	J	20	5.0	1.5
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	3.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8
67-64-1	Acetone	10	U	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.74
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.46
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.74
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.65
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.50
75-00-3	Chloroethane	2.5	U J1	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.57
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	0.92	J	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2010 Lab Sample ID: 280-120962-1

Matrix: Water Lab File ID: LSMP4118.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 13:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.56
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.3
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	2.5	U J1	5.0	2.5	1.0
75-01-4	Vinyl chloride	2.0	U	5.0	2.0	1.9
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		81-118
460-00-4	4-Bromofluorobenzene (Surr)	110		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	104		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4118.D
Lims ID: 280-120962-B-1
Client ID: 6MW2010
Sample Type: Client
Inject. Date: 19-Mar-2019 13:20:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-008
Misc. Info.: 280-120962-b-1
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:14 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 19-Mar-2019 15:54:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.164				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.402				ND	
3 Chloromethane	50		3.513				ND	
4 Vinyl chloride	62	3.681	3.681	0.000	94	3899	0.5166	
122 Butadiene	39		3.709				ND	
5 Bromomethane	94	4.282	4.282	0.000	76	3545	0.8683	
6 Chloroethane	64		4.491				ND	
7 Trichlorofluoromethane	101		4.742				ND	
123 Dichlorofluoromethane	67		4.840				ND	
8 Ethyl ether	74		5.245				ND	
11 Ethanol	45		5.469				ND	U
9 1,1-Dichloroethene	96		5.552				ND	
10 Carbon disulfide	76		5.594				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.594				ND	
13 Iodomethane	142		5.762				ND	
S 26 1,2-Dichloroethene, Total	96				0		0.9209	
14 Acrolein	56		6.027				ND	
15 3-Chloro-1-propene	39		6.209				ND	
16 Isopropyl alcohol	45		6.223				ND	U
17 Methylene Chloride	84		6.349				ND	
18 Acetone	43		6.404				ND	
20 Methyl acetate	74	6.558	6.544	0.014	96	1520	9.16	
19 trans-1,2-Dichloroethene	96		6.544				ND	
21 Hexane	86		6.614				ND	
22 Methyl tert-butyl ether	73		6.656				ND	
23 2-Methyl-2-propanol	59		6.754				ND	
24 Acetonitrile	41		6.977				ND	
25 Isopropyl ether	45		7.075				ND	
27 2-Chloro-1,3-butadiene	53		7.228				ND	
28 1,1-Dichloroethane	63		7.256				ND	
29 Acrylonitrile	53		7.326				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.466				ND	
31 Vinyl acetate	43		7.508				ND	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	79	5299	0.9209	
33 2,2-Dichloropropane	77		7.941				ND	
35 Chlorobromomethane	128		8.038				ND	
34 Cyclohexane	84		8.038				ND	
36 Chloroform	83		8.094				ND	
39 Ethyl acetate	45		8.178				ND	
37 Carbon tetrachloride	117		8.248				ND	
38 Tetrahydrofuran	71		8.262				ND	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	196903	50.0	
40 1,1,1-Trichloroethane	97		8.318				ND	
43 2-Butanone (MEK)	43	8.402	8.388	0.014	97	15120	14.9	
42 1,1-Dichloropropene	75		8.429				ND	
125 Isooctane	57		8.499				ND	
117 n-Heptane	43		8.583				ND	
44 Benzene	78		8.681				ND	
45 Propionitrile	54		8.709				ND	
46 Methacrylonitrile	41		8.723				ND	
48 Tert-amyl methyl ether	73		8.737				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	99	261667	51.0	
50 Isobutyl alcohol	42	8.918	8.807	0.111	40	820	78.2	
49 1,2-Dichloroethane	62		8.876				ND	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1026533	50.0	
118 1,4-Difluorobenzene	114		9.130				ND	
53 Trichloroethene	95		9.212				ND	
52 Methylcyclohexane	55		9.212				ND	
54 n-Butanol	56		9.435				ND	U
55 Dibromomethane	93		9.617				ND	
124 Ethyl acrylate	55		9.645				ND	
56 1,2-Dichloropropane	63		9.714				ND	
57 Dichlorobromomethane	83		9.742				ND	
58 Methyl methacrylate	69		9.826				ND	
59 1,4-Dioxane	88		9.924				ND	
60 2-Chloroethyl vinyl ether	63		10.217				ND	
128 2-Pentanone	43		10.253				ND	
61 cis-1,3-Dichloropropene	75		10.315				ND	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1035878	52.1	
63 Toluene	92		10.524				ND	
64 2-Nitropropane	43		10.748				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.832				ND	
67 trans-1,3-Dichloropropene	75		10.888				ND	
65 Tetrachloroethene	164		10.888				ND	
69 Ethyl methacrylate	69		10.957				ND	
68 1,1,2-Trichloroethane	83		11.041				ND	
70 Chlorodibromomethane	129		11.223				ND	
71 1,3-Dichloropropane	76		11.307				ND	
119 n-Butyl acetate	43		11.446				ND	
72 Ethylene Dibromide	107		11.474				ND	
74 2-Hexanone	43		11.572				ND	
S 73 1,3-Dichloropropene, Total	75		11.620				ND	
75 1-Chlorohexane	91		11.837				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	90	641046	50.0	
78 Ethylbenzene	91		11.907				ND	
77 Chlorobenzene	112		11.921				ND	
79 1,1,1,2-Tetrachloroethane	131		11.963				ND	
80 m-Xylene & p-Xylene	106		12.033				ND	
82 o-Xylene	106		12.438				ND	
83 Styrene	104		12.480				ND	
84 Bromoform	173		12.550				ND	
85 Isopropylbenzene	105		12.703				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.010	0.001	87	362145	55.0	
88 N-Propylbenzene	91		13.094				ND	
87 Bromobenzene	156		13.136				ND	
89 1,1,2,2-Tetrachloroethane	83		13.164				ND	
91 1,3,5-Trimethylbenzene	105		13.262				ND	
90 2-Chlorotoluene	91		13.276				ND	
92 1,2,3-Trichloropropane	110		13.318				ND	
93 trans-1,4-Dichloro-2-buten	53		13.332				ND	
94 Cyclohexanone	55		13.401				ND	
95 4-Chlorotoluene	91		13.429				ND	
81 Pentachloroethane	167		13.557				ND	
96 tert-Butylbenzene	119		13.583				ND	
97 1,2,4-Trimethylbenzene	105		13.639				ND	
98 sec-Butylbenzene	105		13.751				ND	
99 4-Isopropyltoluene	119		13.862				ND	
100 1,3-Dichlorobenzene	146		14.002				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	299326	50.0	
120 1,2,3-Trimethylbenzene	105		14.072				ND	
102 1,4-Dichlorobenzene	146		14.086				ND	U
103 n-Butylbenzene	134		14.281				ND	
121 Benzyl chloride	126		14.323				ND	
104 1,2-Dichlorobenzene	146		14.519				ND	
106 n-Nonyl Aldehyde	57		15.231				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.301				ND	
107 1,3,5-Trichlorobenzene	180		15.315				ND	
108 Hexachlorobutadiene	225	15.902	15.901	0.001	85	3464	0.5965	
109 1,2,4-Trichlorobenzene	180	15.971	15.971	0.000	90	3740	0.5901	
110 Naphthalene	128		16.320				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.516				ND	
126 C6-C12	1		0.000				ND	
S 113 Trihalomethanes, Total	1		0.000				ND	
127 2-Methylpentane	1		0.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

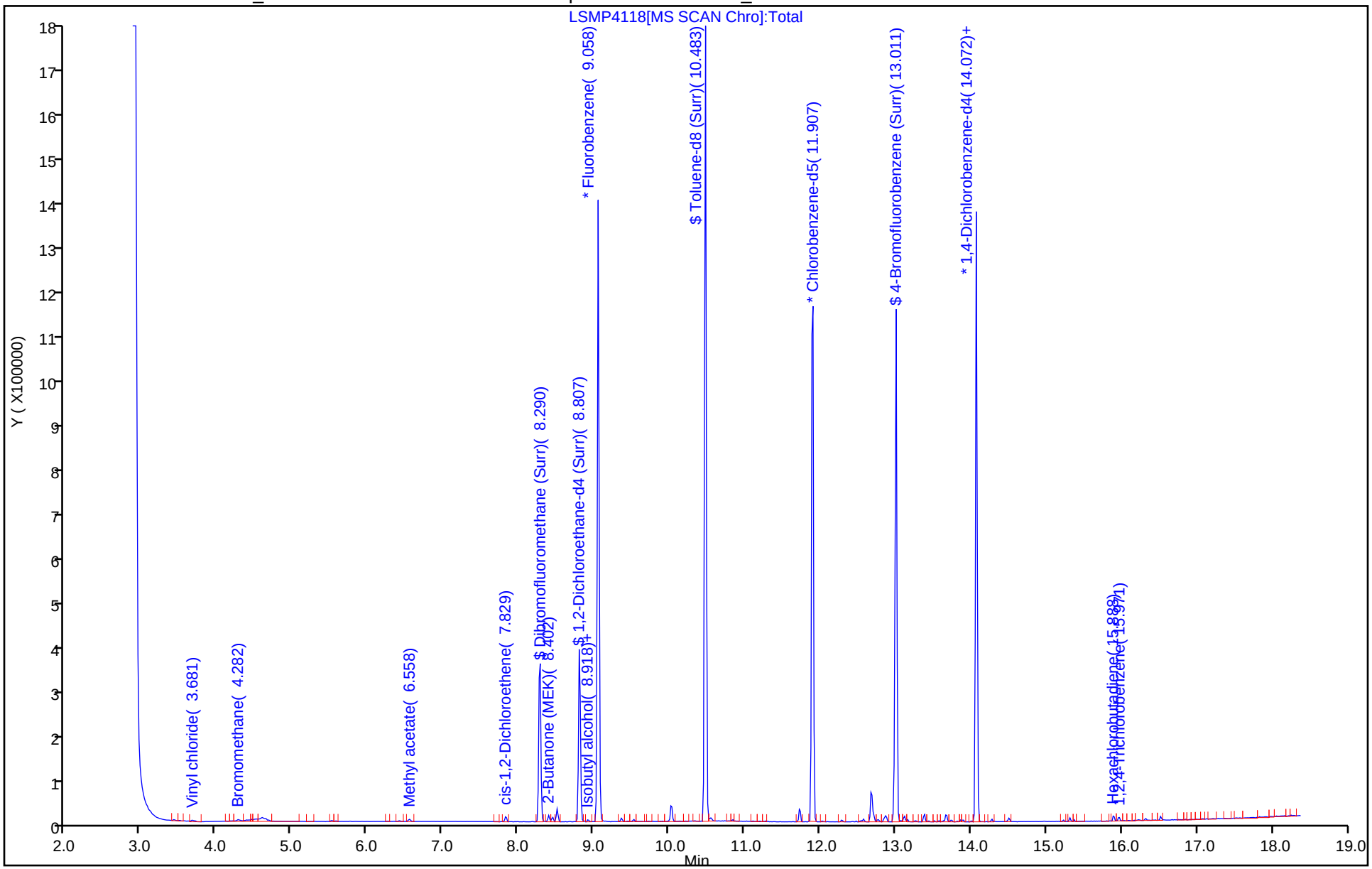
8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:26 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4118.D

Injection Date:	19-Mar-2019 13:20:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	280-120962-B-1	Lab Sample ID:	160-120962-1	Worklist Smp#:	8
Client ID:	6MW2010				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4118.D
Lims ID: 280-120962-B-1
Client ID: 6MW2010
Sample Type: Client
Inject. Date: 19-Mar-2019 13:20:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-008
Misc. Info.: 280-120962-b-1
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:14 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 19-Mar-2019 15:54:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.0	100.00
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.0	102.07
$ 62 Toluene-d8 (Surr)	50.0	52.1	104.13
$ 86 4-Bromofluorobenzene (Surr)	50.0	55.0	109.93

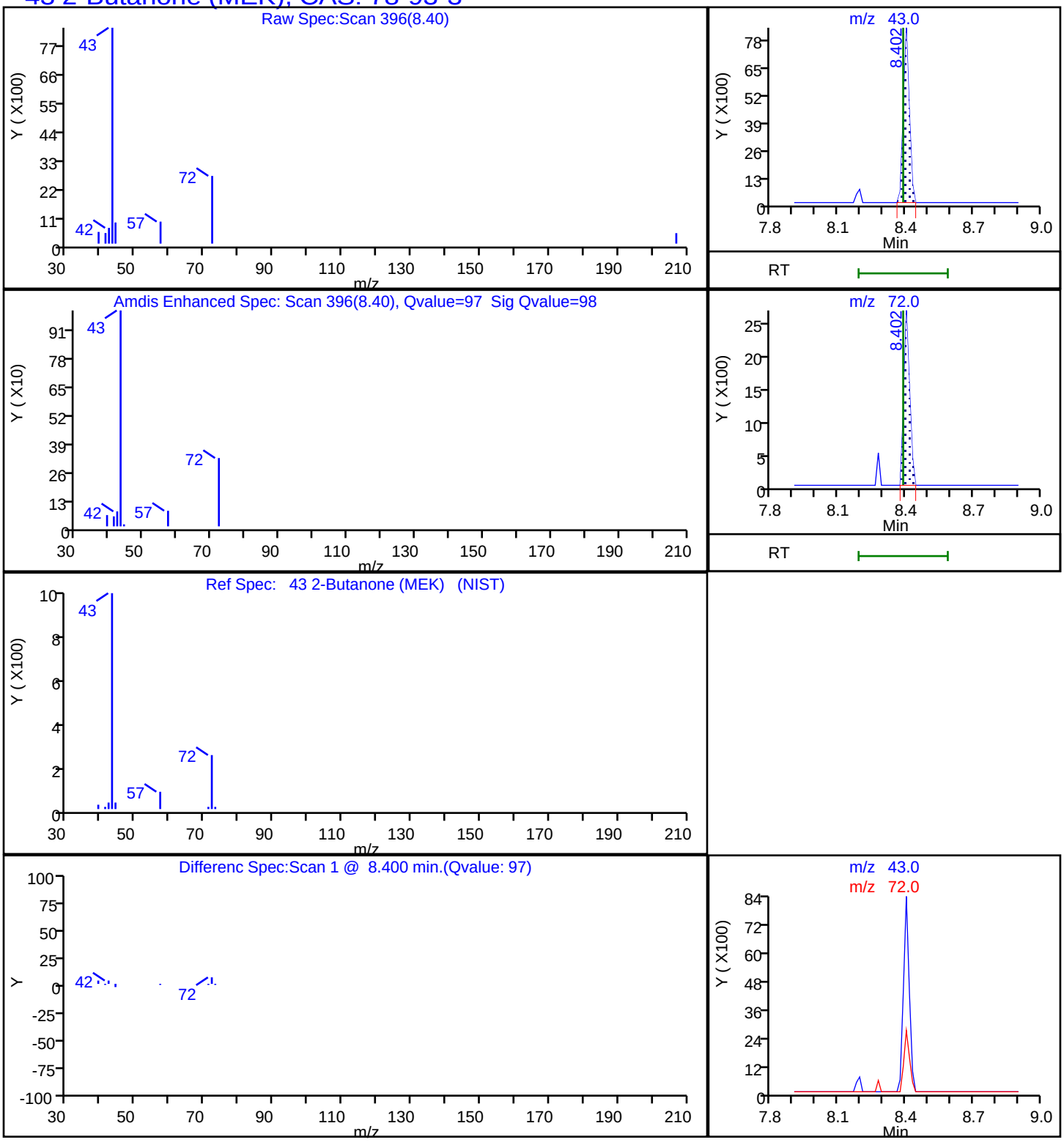
Report Date: 20-Mar-2019 15:42:26 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4118.D

Injection Date:	19-Mar-2019 13:20:30	Instrument ID:	VMSL
Lims ID:	280-120962-B-1	Lab Sample ID:	160-120962-1
Client ID:	6MW2010		
Operator ID:	KA	ALS Bottle#:	6 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3



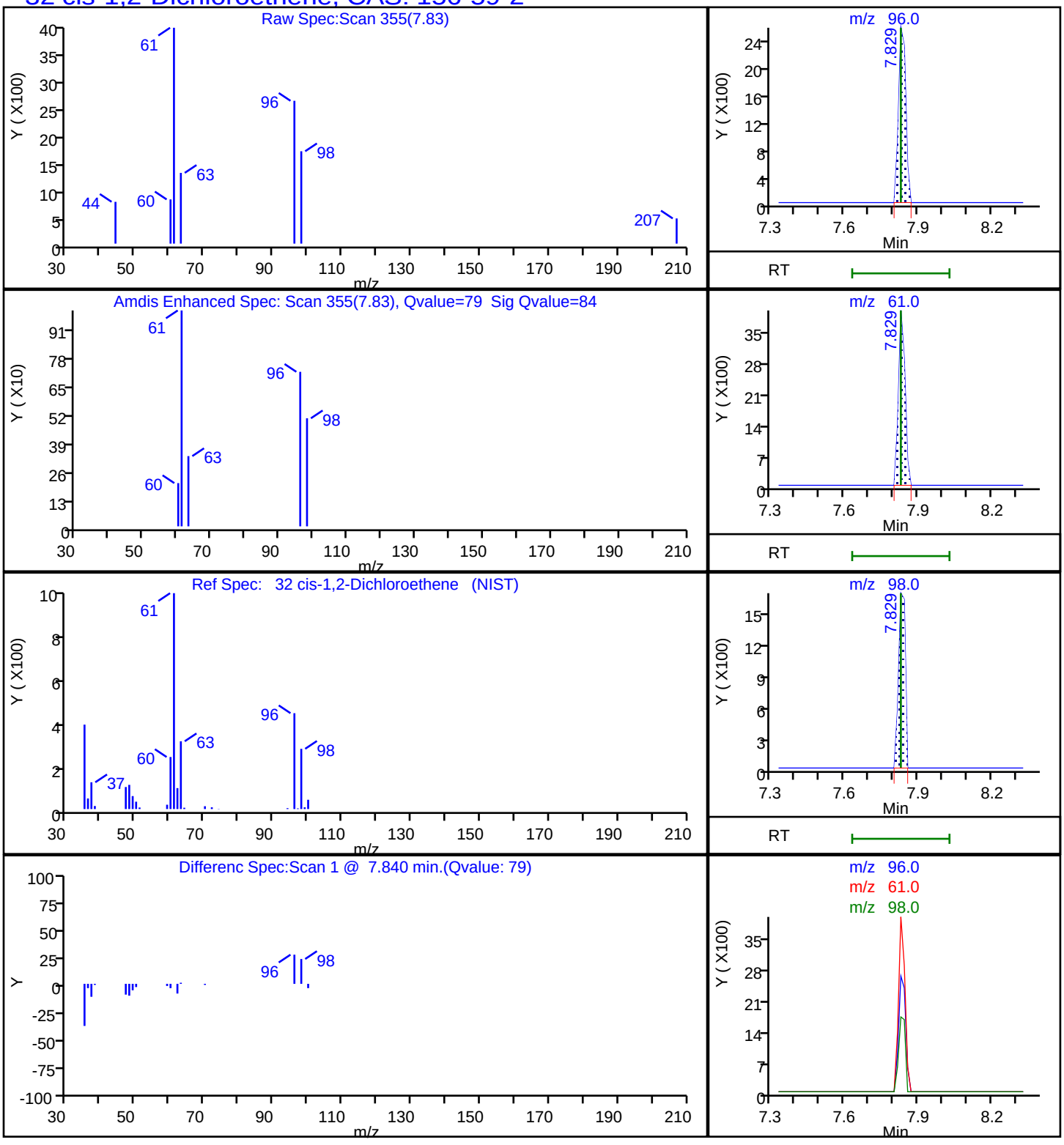
Report Date: 20-Mar-2019 15:42:26 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4118.D

Injection Date:	19-Mar-2019 13:20:30	Instrument ID:	VMSL
Lims ID:	280-120962-B-1	Lab Sample ID:	160-120962-1
Client ID:	6MW2010		
Operator ID:	KA	ALS Bottle#:	6 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2010D Lab Sample ID: 280-120962-2

Matrix: Water Lab File ID: LSMP4122.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 14:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	22		20	5.0	1.5
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	3.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8
67-64-1	Acetone	10	U	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.74
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.46
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.74
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.65
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.50
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.57
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	0.93	J	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2010D Lab Sample ID: 280-120962-2

Matrix: Water Lab File ID: LSMP4122.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 14:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.56
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.3
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.0
75-01-4	Vinyl chloride	2.0	U	5.0	2.0	1.9
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		81-118
460-00-4	4-Bromofluorobenzene (Surr)	114		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	106		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4122.D
Lims ID: 280-120962-B-2
Client ID: 6MW2010D
Sample Type: Client
Inject. Date: 19-Mar-2019 14:59:30 ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-012
Misc. Info.: 280-120962-b-2
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:34:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.164				ND	
3 Chloromethane	50		3.513				ND	
4 Vinyl chloride	62		3.681				ND	
5 Bromomethane	94	4.282	4.282	0.000	88	5606	1.33	
6 Chloroethane	64		4.491				ND	
7 Trichlorofluoromethane	101		4.742				ND	
9 1,1-Dichloroethene	96		5.552				ND	
10 Carbon disulfide	76		5.594				ND	
17 Methylene Chloride	84		6.349				ND	
18 Acetone	43		6.404				ND	
19 trans-1,2-Dichloroethene	96		6.544				ND	
22 Methyl tert-butyl ether	73		6.656				ND	
28 1,1-Dichloroethane	63		7.256				ND	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	79	5534	0.9317	
33 2,2-Dichloropropane	77		7.941				ND	
35 Chlorobromomethane	128		8.038				ND	
36 Chloroform	83		8.094				ND	
37 Carbon tetrachloride	117		8.248				ND	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	206102	50.7	
40 1,1,1-Trichloroethane	97		8.318				ND	
43 2-Butanone (MEK)	43	8.402	8.388	0.014	98	23518	22.5	
42 1,1-Dichloropropene	75		8.429				ND	
44 Benzene	78		8.681				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	98	274572	51.9	
49 1,2-Dichloroethane	62		8.876				ND	U
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1059679	50.0	
53 Trichloroethene	95		9.212				ND	
55 Dibromomethane	93		9.617				ND	
56 1,2-Dichloropropane	63		9.714				ND	
57 Dichlorobromomethane	83		9.742				ND	
61 cis-1,3-Dichloropropene	75		10.315				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1071642	52.8	
63 Toluene	92		10.524				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.832				ND	
67 trans-1,3-Dichloropropene	75		10.888				ND	
65 Tetrachloroethene	164		10.888				ND	
68 1,1,2-Trichloroethane	83		11.041				ND	
70 Chlorodibromomethane	129		11.223				ND	
71 1,3-Dichloropropane	76		11.307				ND	
72 Ethylene Dibromide	107		11.474				ND	
74 2-Hexanone	43		11.572				ND	
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	91	654292	50.0	
78 Ethylbenzene	91		11.907				ND	
77 Chlorobenzene	112		11.921				ND	
79 1,1,1,2-Tetrachloroethane	131		11.963				ND	
80 m-Xylene & p-Xylene	106		12.033				ND	
82 o-Xylene	106		12.438				ND	
83 Styrene	104		12.480				ND	
84 Bromoform	173		12.550				ND	
85 Isopropylbenzene	105		12.703				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.010	0.001	86	376171	57.2	
88 N-Propylbenzene	91		13.094				ND	
87 Bromobenzene	156		13.136				ND	
89 1,1,2,2-Tetrachloroethane	83		13.164				ND	
91 1,3,5-Trimethylbenzene	105		13.262				ND	
90 2-Chlorotoluene	91		13.276				ND	
92 1,2,3-Trichloropropane	110		13.318				ND	
95 4-Chlorotoluene	91		13.429				ND	
96 tert-Butylbenzene	119		13.583				ND	
97 1,2,4-Trimethylbenzene	105		13.639				ND	
98 sec-Butylbenzene	105		13.751				ND	
99 4-Isopropyltoluene	119		13.862				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	298713	50.0	
103 n-Butylbenzene	134		14.281				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.301				ND	
110 Naphthalene	128		16.320				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	92	4266	0.8397	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

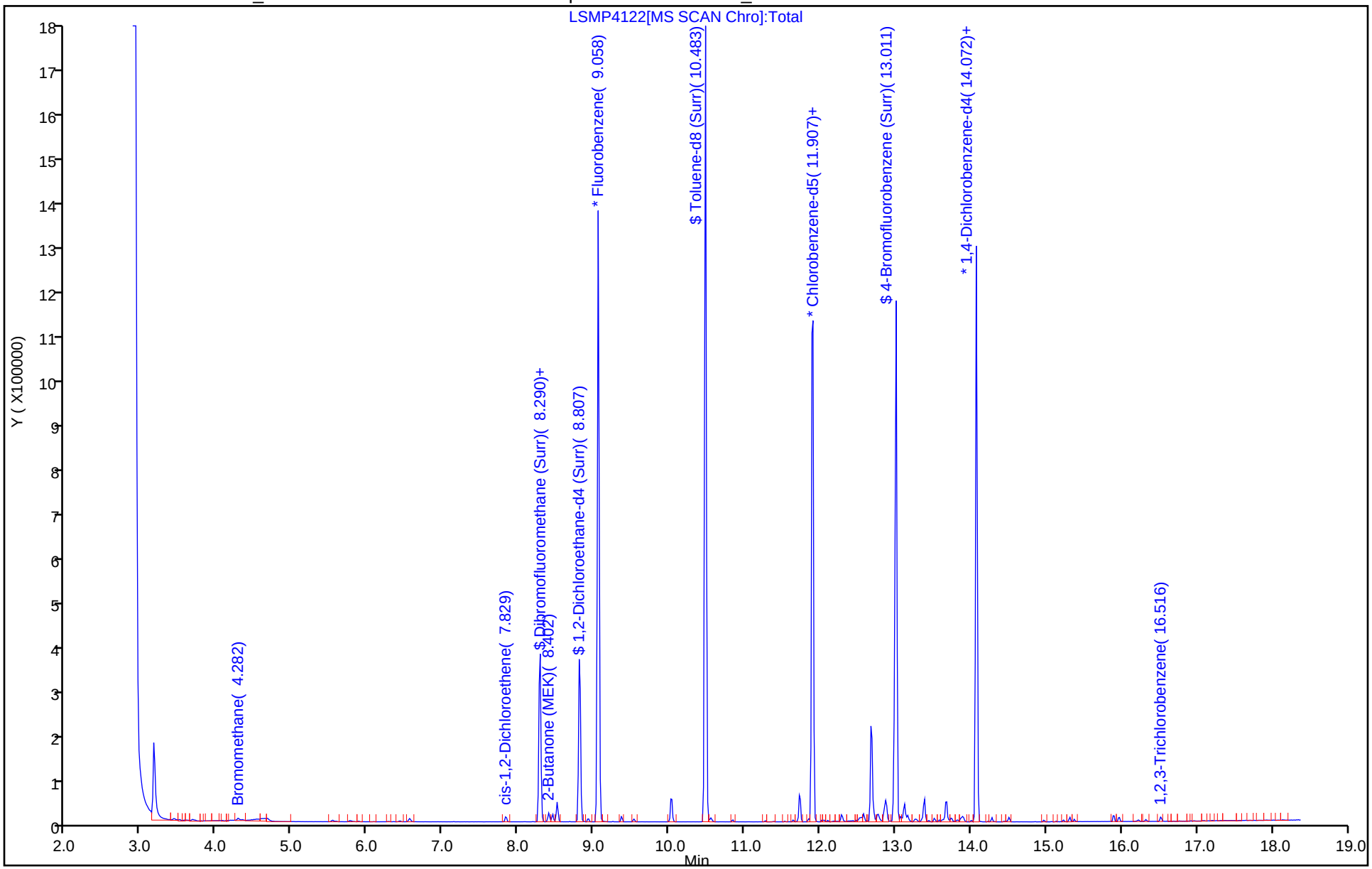
8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:01 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4122.D

Injection Date:	19-Mar-2019 14:59:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	280-120962-B-2	Lab Sample ID:	160-120962-2	Worklist Smp#:	12
Client ID:	6MW2010D				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4122.D
Lims ID: 280-120962-B-2
Client ID: 6MW2010D
Sample Type: Client
Inject. Date: 19-Mar-2019 14:59:30 ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-012
Misc. Info.: 280-120962-b-2
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:34:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.7	101.40
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.9	103.75
$ 62 Toluene-d8 (Surr)	50.0	52.8	105.55
$ 86 4-Bromofluorobenzene (Surr)	50.0	57.2	114.42

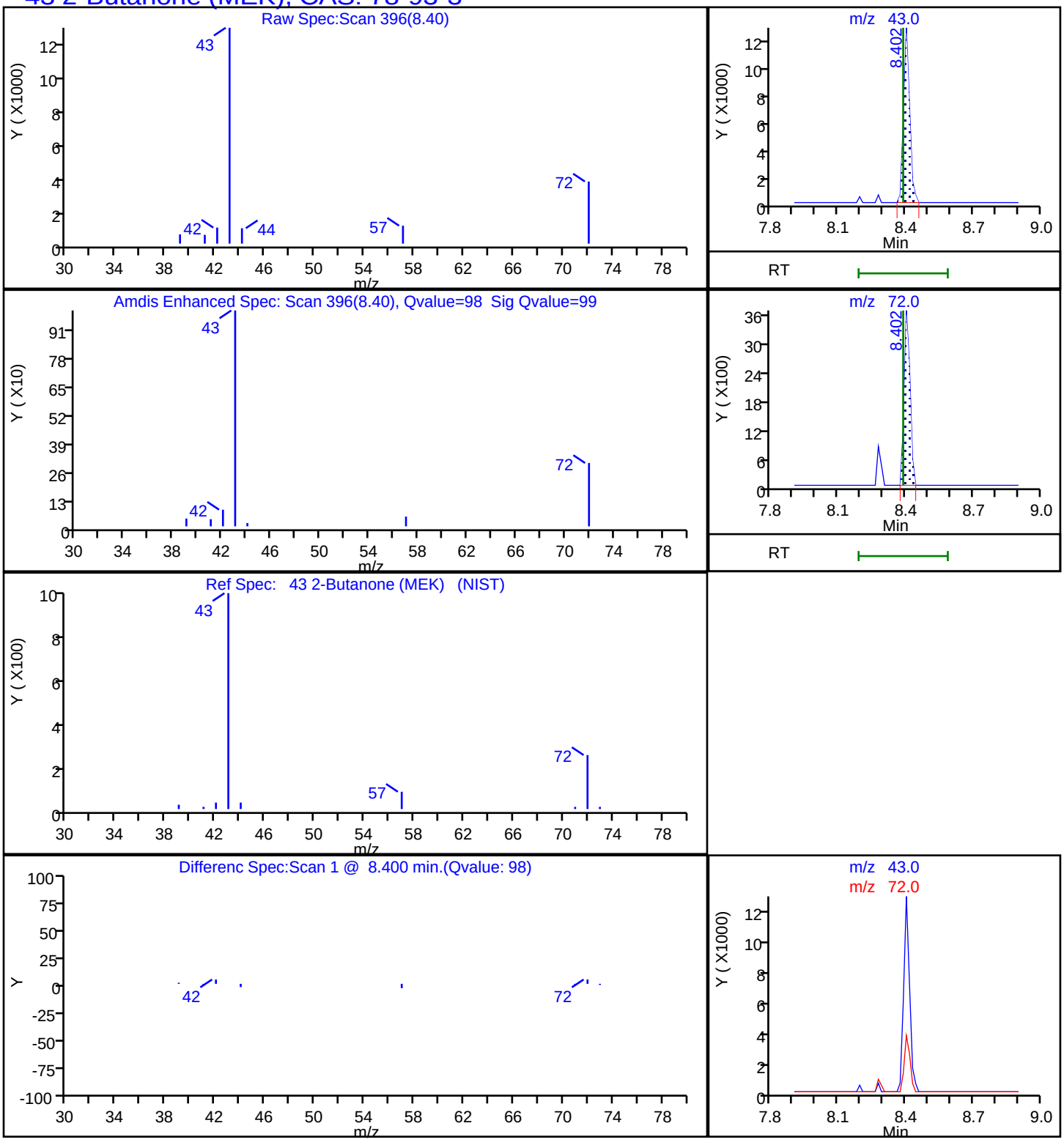
Report Date: 20-Mar-2019 15:42:01 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4122.D

Injection Date:	19-Mar-2019 14:59:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-2	Lab Sample ID:	160-120962-2		
Client ID:	6MW2010D				
Operator ID:	KA	ALS Bottle#:	10	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3



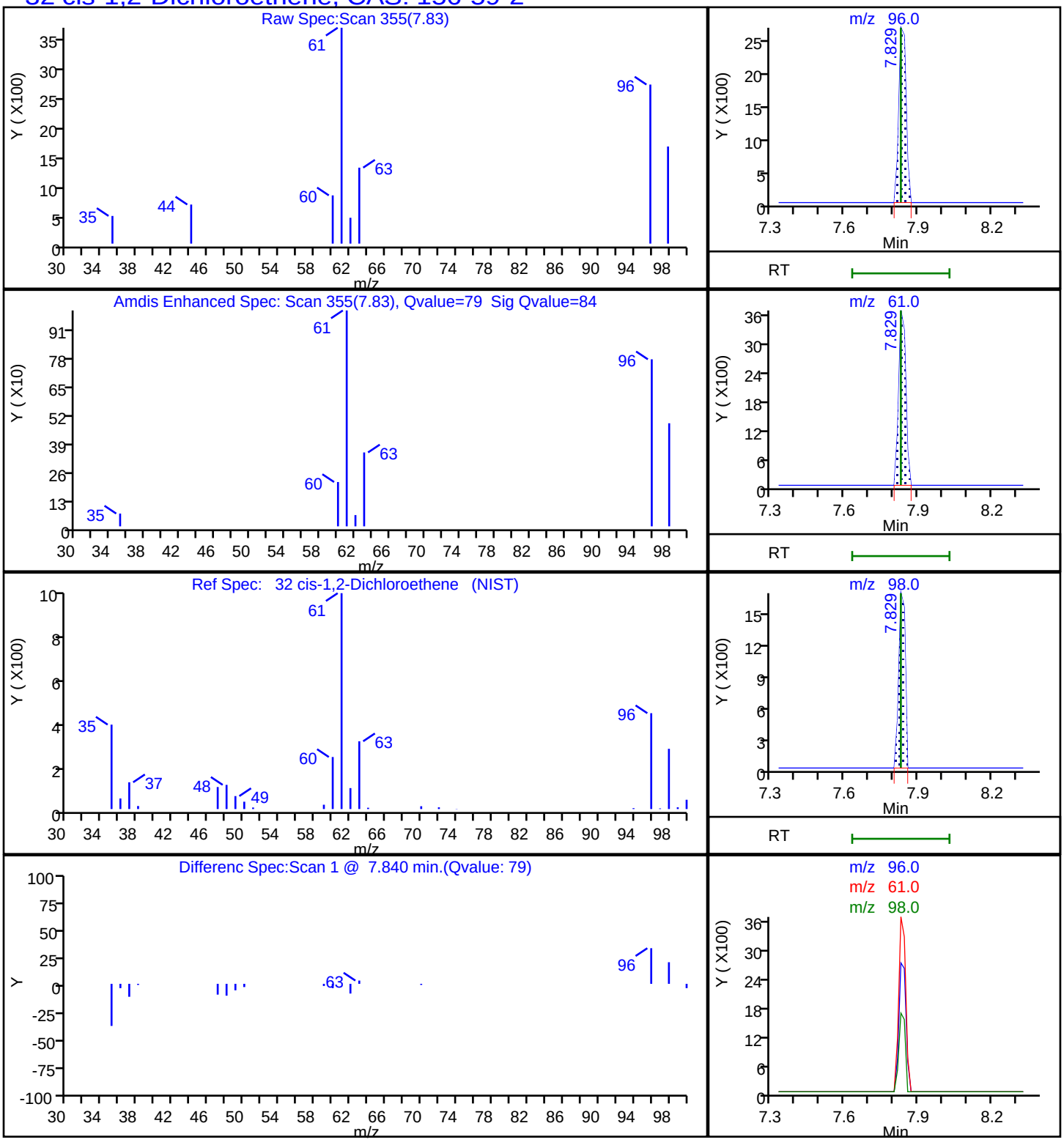
Report Date: 20-Mar-2019 15:42:01 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4122.D

Injection Date:	19-Mar-2019 14:59:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-2	Lab Sample ID:	160-120962-2		
Client ID:	6MW2010D				
Operator ID:	KA	ALS Bottle#:	10	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

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



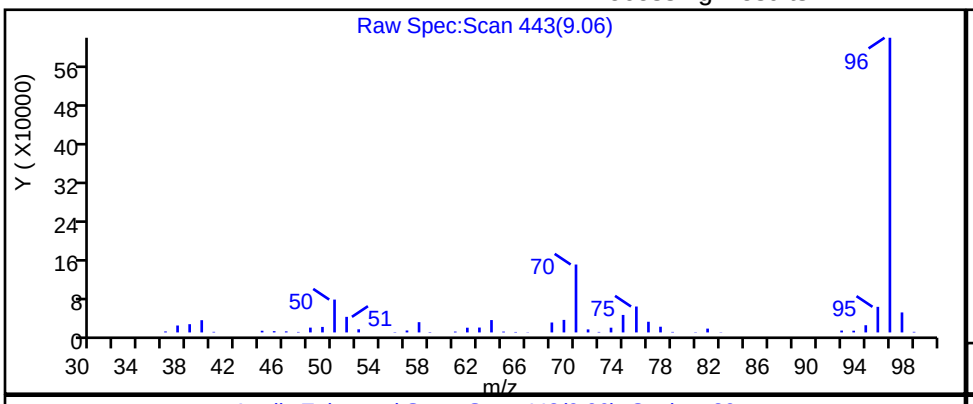
User Disabled Compound Report

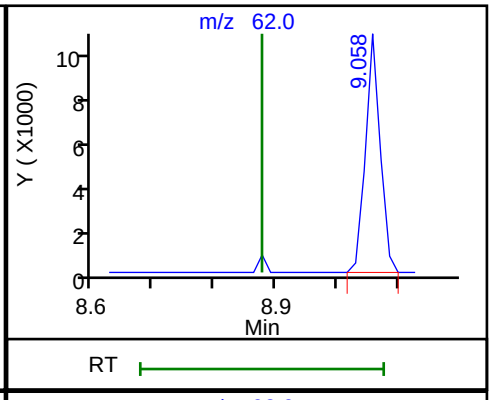
TestAmerica St. Louis

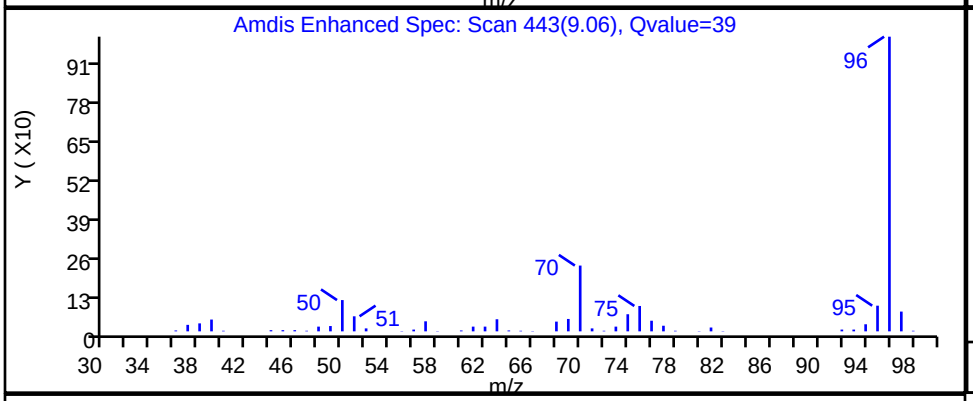
Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4122.D				
Injection Date:	19-Mar-2019 14:59:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-2	Lab Sample ID:	160-120962-2		
Client ID:	6MW2010D				
Operator ID:	KA	ALS Bottle#:	10	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

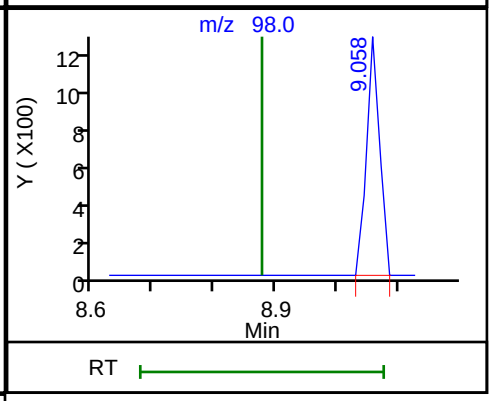
49 1,2-Dichloroethane, CAS: 107-06-2

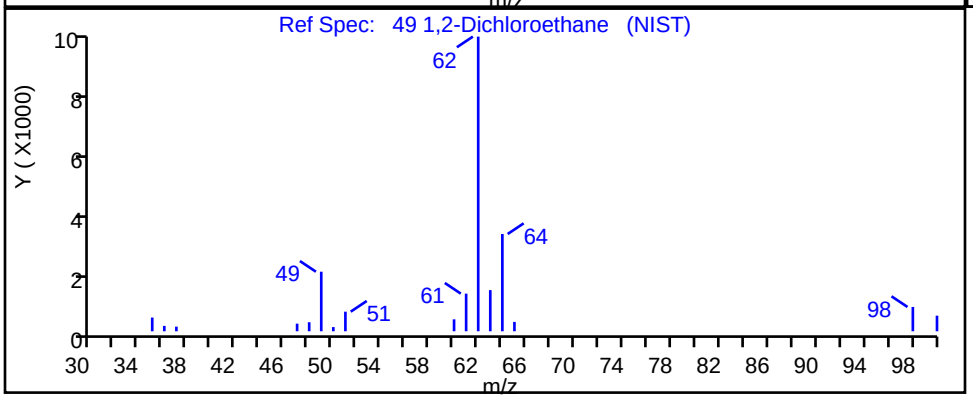
Processing Results











RT	Mass	Response	Amount
9.06	62.00	17185	2.723398
9.06	98.00	1842	

Reviewer: aguk, 20-Mar-2019 15:34:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2210 Lab Sample ID: 280-120962-3

Matrix: Water Lab File ID: LSMP4123.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 12:10

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 15:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	21		20	5.0	1.5
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	3.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8
67-64-1	Acetone	25		20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.74
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.46
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.74
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.65
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.50
75-00-3	Chloroethane	2.5	U M	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.57
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	2.5	U	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2210 Lab Sample ID: 280-120962-3

Matrix: Water Lab File ID: LSMP4123.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 12:10

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 15:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.56
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.3
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U M	5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.0
75-01-4	Vinyl chloride	2.0	U	5.0	2.0	1.9
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		81-118
460-00-4	4-Bromofluorobenzene (Surr)	112		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	105		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4123.D
Lims ID: 280-120962-B-3
Client ID: 6MW2210
Sample Type: Client
Inject. Date: 19-Mar-2019 15:24:30 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-013
Misc. Info.: 280-120962-b-3
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:36:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.164				ND	
3 Chloromethane	50		3.513				ND	
4 Vinyl chloride	62		3.681				ND	
5 Bromomethane	94	4.282	4.282	0.000	88	5447	1.41	
6 Chloroethane	64		4.491				ND	U
7 Trichlorofluoromethane	101		4.742				ND	
9 1,1-Dichloroethene	96		5.552				ND	
10 Carbon disulfide	76		5.594				ND	
17 Methylene Chloride	84		6.349				ND	
18 Acetone	43	6.419	6.404	0.015	100	16100	25.2	
19 trans-1,2-Dichloroethene	96		6.544				ND	
22 Methyl tert-butyl ether	73		6.656				ND	
28 1,1-Dichloroethane	63		7.256				ND	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	77	3489	0.6411	
33 2,2-Dichloropropane	77		7.941				ND	
35 Chlorobromomethane	128		8.038				ND	
36 Chloroform	83		8.094				ND	
37 Carbon tetrachloride	117		8.248				ND	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	187567	50.4	
40 1,1,1-Trichloroethane	97		8.318				ND	
43 2-Butanone (MEK)	43	8.402	8.388	0.014	98	20223	21.1	
42 1,1-Dichloropropene	75		8.429				ND	
44 Benzene	78		8.681				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	98	246167	50.8	
49 1,2-Dichloroethane	62		8.876				ND	U
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	970960	50.0	
53 Trichloroethene	95		9.212				ND	U
55 Dibromomethane	93		9.617				ND	
56 1,2-Dichloropropane	63		9.714				ND	
57 Dichlorobromomethane	83		9.742				ND	
61 cis-1,3-Dichloropropene	75		10.315				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	975435	52.7	
63 Toluene	92	10.525	10.537	0.001	95	2851	0.2051	
66 4-Methyl-2-pentanone (MIBK	43		10.832				ND	
67 trans-1,3-Dichloropropene	75		10.888				ND	
65 Tetrachloroethene	164	10.888	10.900	0.000	40	1712	0.3733	
68 1,1,2-Trichloroethane	83		11.041				ND	
70 Chlorodibromomethane	129		11.223				ND	
71 1,3-Dichloropropane	76		11.307				ND	
72 Ethylene Dibromide	107		11.474				ND	
74 2-Hexanone	43		11.572				ND	
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	91	596326	50.0	
78 Ethylbenzene	91		11.907				ND	
77 Chlorobenzene	112		11.921				ND	
79 1,1,1,2-Tetrachloroethane	131		11.963				ND	
80 m-Xylene & p-Xylene	106		12.033				ND	
82 o-Xylene	106		12.438				ND	
83 Styrene	104		12.480				ND	
84 Bromoform	173		12.550				ND	
85 Isopropylbenzene	105		12.703				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.010	0.001	86	337831	55.8	
88 N-Propylbenzene	91		13.094				ND	
87 Bromobenzene	156		13.136				ND	
89 1,1,2,2-Tetrachloroethane	83		13.164				ND	
91 1,3,5-Trimethylbenzene	105		13.262				ND	
90 2-Chlorotoluene	91		13.276				ND	
92 1,2,3-Trichloropropane	110		13.318				ND	
95 4-Chlorotoluene	91		13.429				ND	
96 tert-Butylbenzene	119		13.583				ND	
97 1,2,4-Trimethylbenzene	105		13.639				ND	
98 sec-Butylbenzene	105		13.751				ND	
99 4-Isopropyltoluene	119		13.862				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	274842	50.0	
103 n-Butylbenzene	134		14.281				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.301				ND	
110 Naphthalene	128		16.320				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.516				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

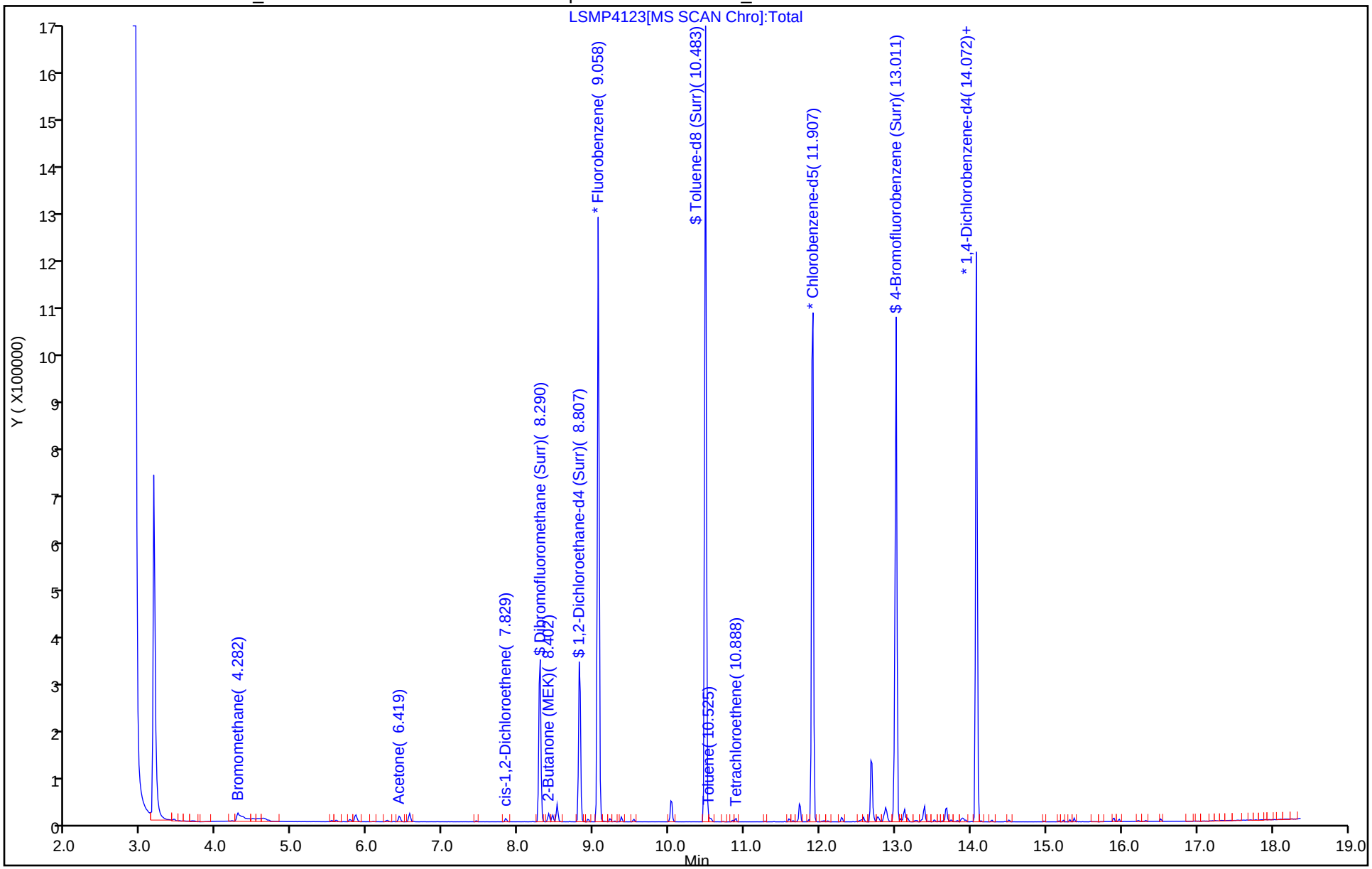
8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:02 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4123.D

Injection Date:	19-Mar-2019 15:24:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	280-120962-B-3	Lab Sample ID:	160-120962-3	Worklist Smp#:	13
Client ID:	6MW2210				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4123.D
Lims ID: 280-120962-B-3
Client ID: 6MW2210
Sample Type: Client
Inject. Date: 19-Mar-2019 15:24:30 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-013
Misc. Info.: 280-120962-b-3
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:36:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.4	100.71
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.8	101.52
$ 62 Toluene-d8 (Surr)	50.0	52.7	105.41
$ 86 4-Bromofluorobenzene (Surr)	50.0	55.8	111.68

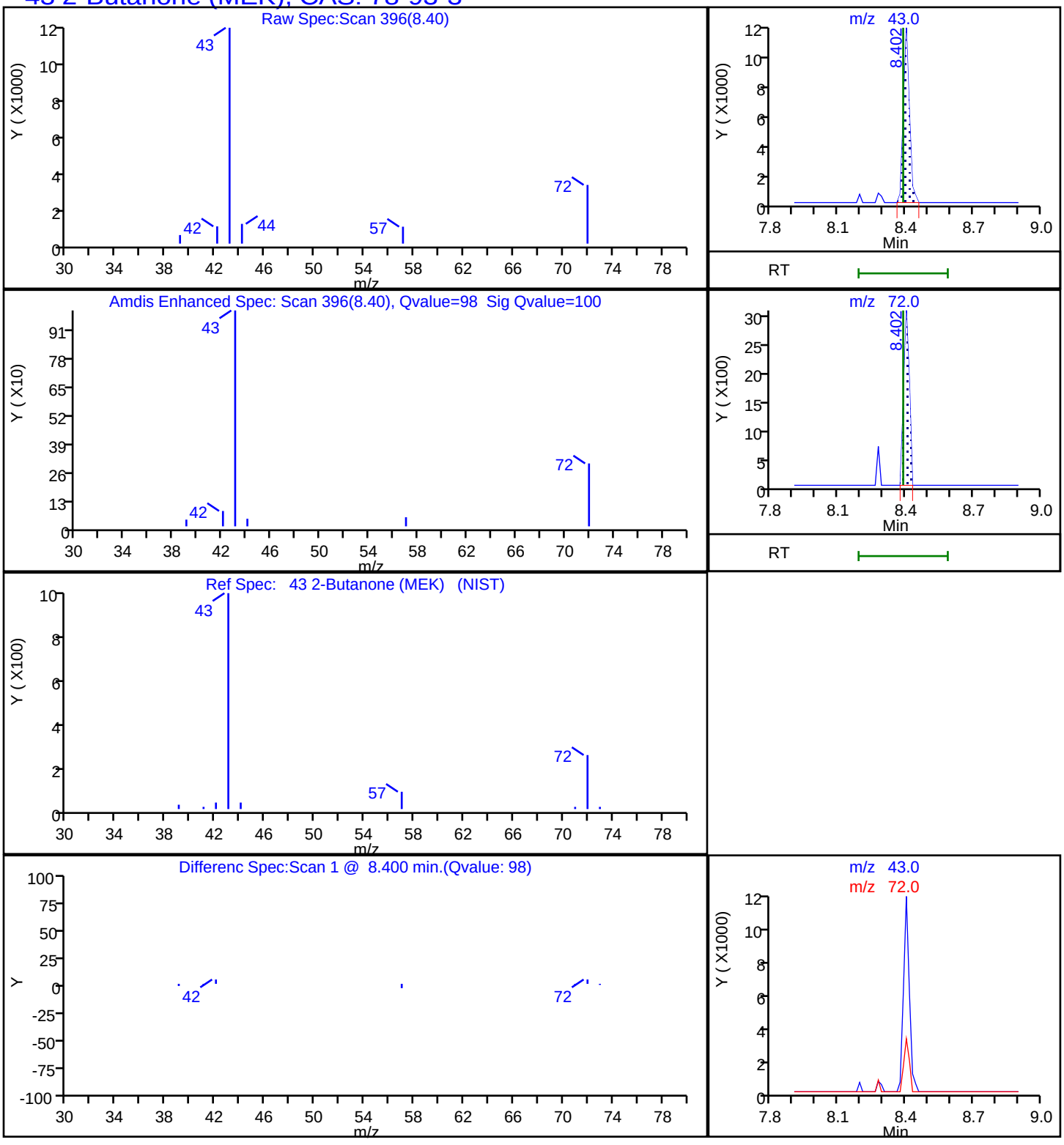
Report Date: 20-Mar-2019 15:42:02 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4123.D

Injection Date:	19-Mar-2019 15:24:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-3	Lab Sample ID:	160-120962-3		
Client ID:	6MW2210				
Operator ID:	KA	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3



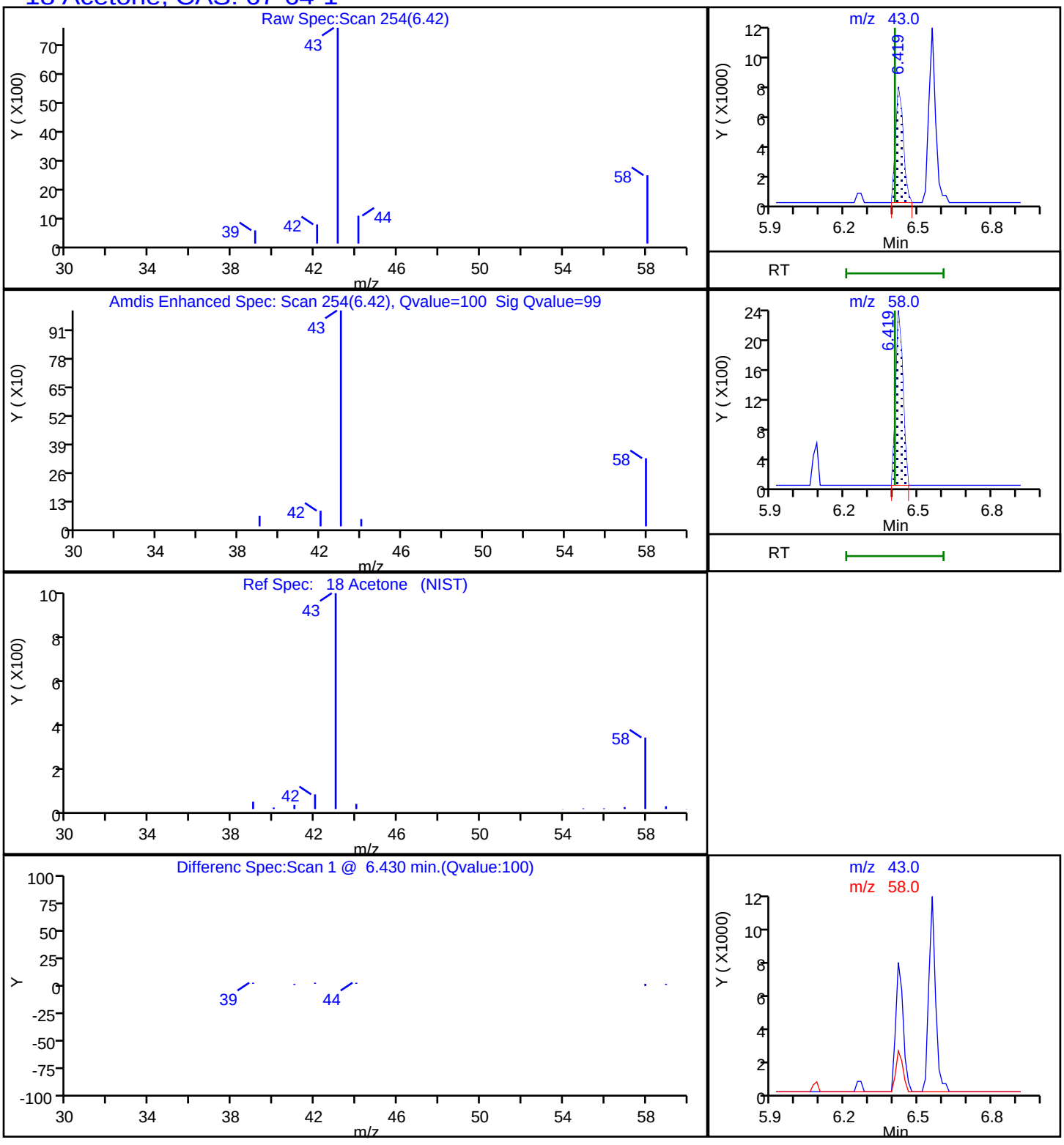
Report Date: 20-Mar-2019 15:42:02 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4123.D

Injection Date:	19-Mar-2019 15:24:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-3	Lab Sample ID:	160-120962-3		
Client ID:	6MW2210				
Operator ID:	KA	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



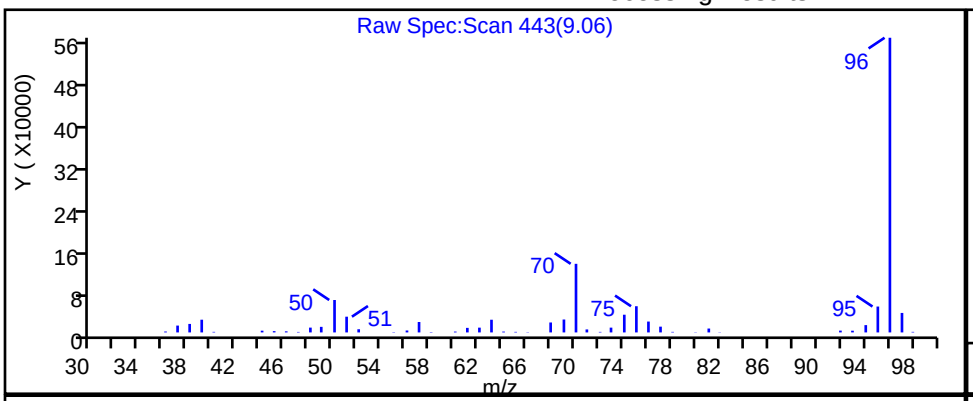
User Disabled Compound Report

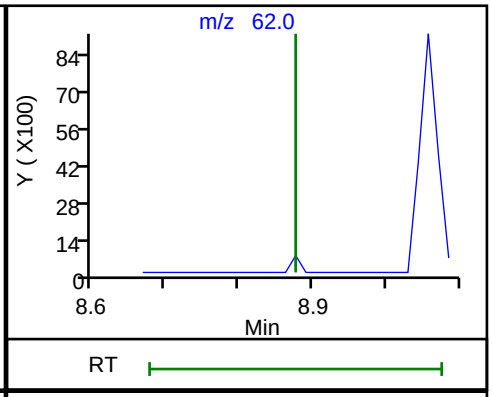
TestAmerica St. Louis

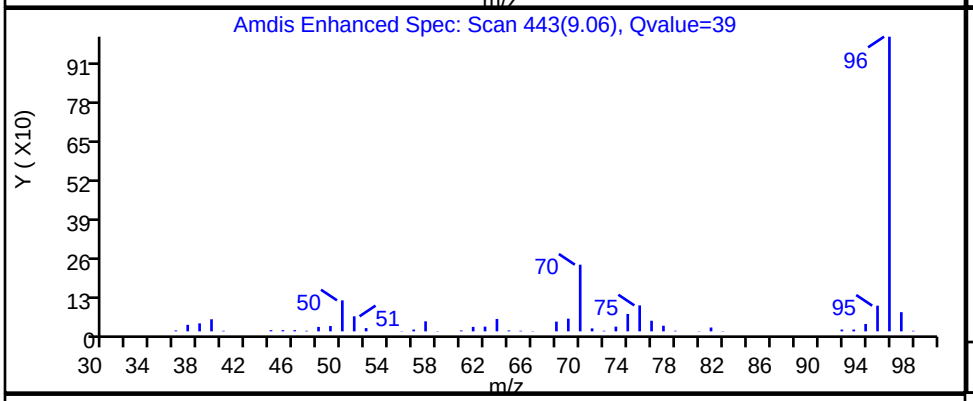
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Injection Date:	19-Mar-2019 15:24:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-3	Lab Sample ID:	160-120962-3		
Client ID:	6MW2210				
Operator ID:	KA	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

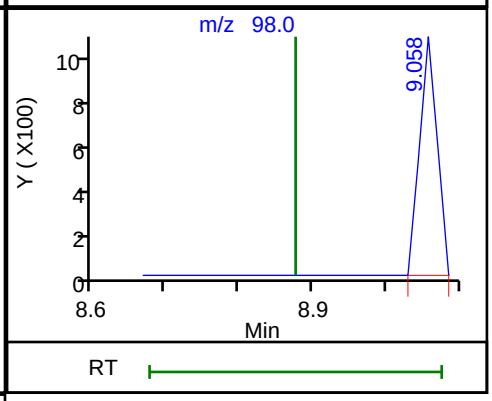
49 1,2-Dichloroethane, CAS: 107-06-2

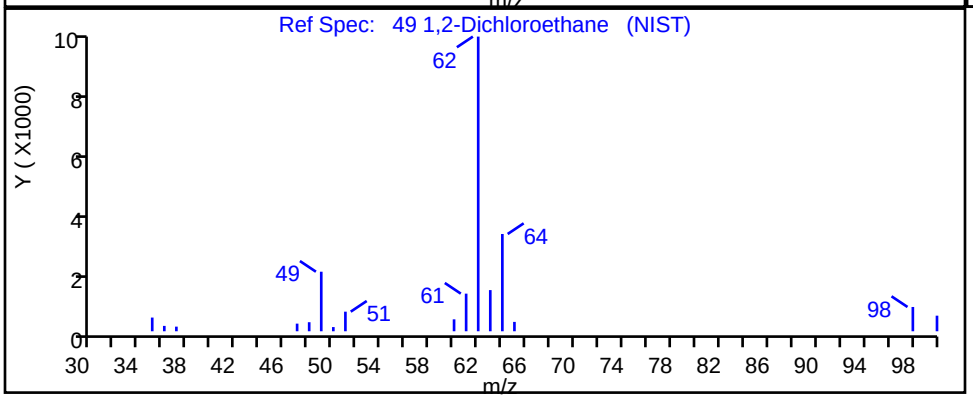
Processing Results











RT	Mass	Response	Amount
9.06	62.00	15362	2.656944
9.06	98.00	1792	

Reviewer: aguk, 20-Mar-2019 15:35:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

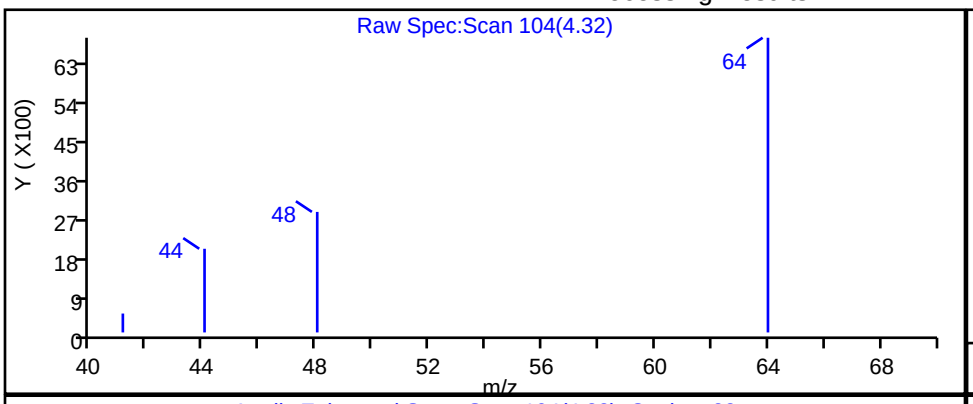
User Disabled Compound Report

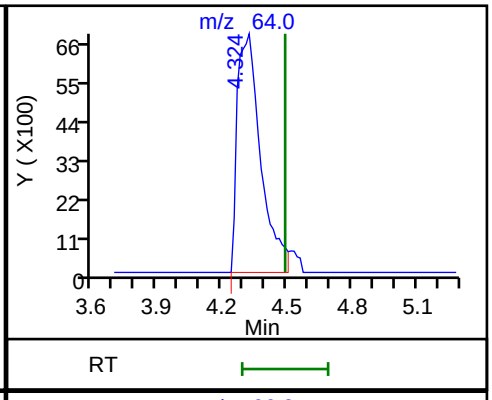
TestAmerica St. Louis

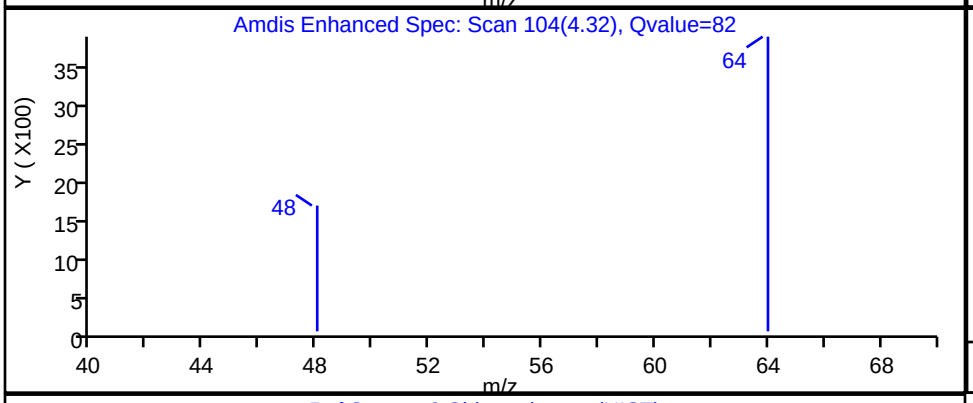
Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4123.D				
Injection Date:	19-Mar-2019 15:24:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-3	Lab Sample ID:	160-120962-3		
Client ID:	6MW2210				
Operator ID:	KA	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

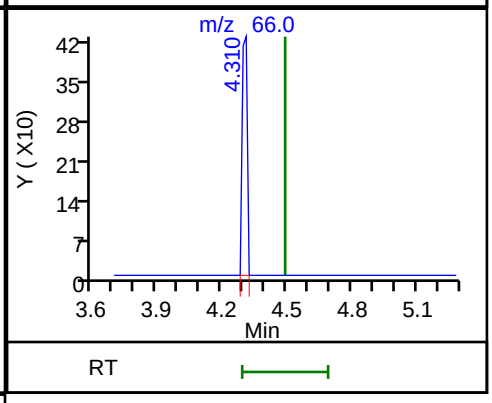
6 Chloroethane, CAS: 75-00-3

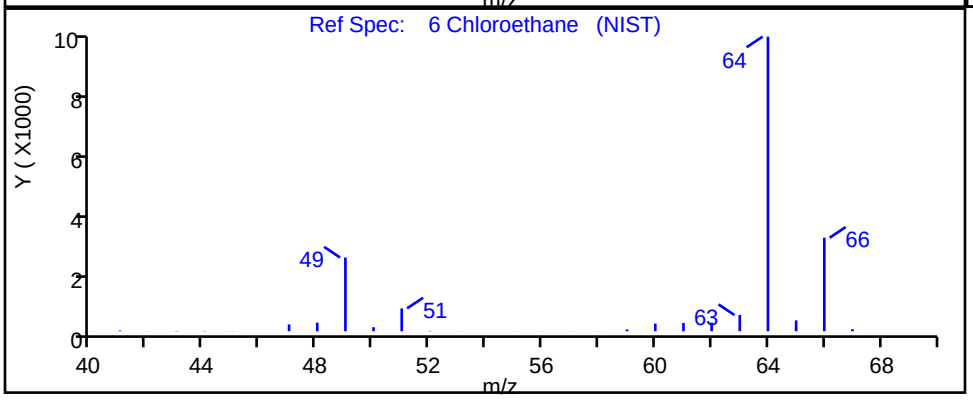
Processing Results











RT	Mass	Response	Amount
4.32	64.00	52034	12.658072
4.31	66.00	707	

Reviewer: aguk, 20-Mar-2019 15:34:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

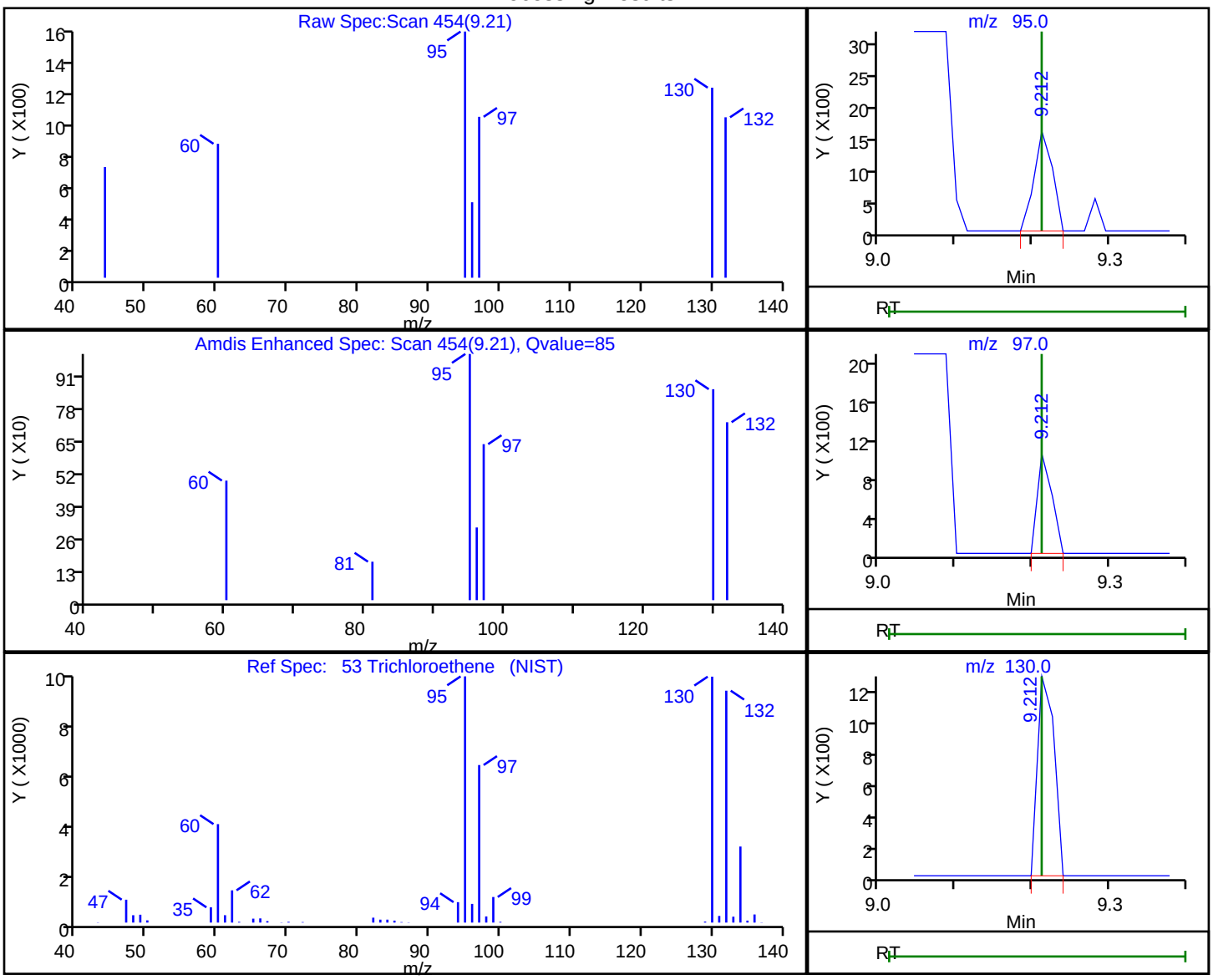
User Disabled Compound Report

TestAmerica St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4123.D				
Injection Date:	19-Mar-2019 15:24:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-3	Lab Sample ID:	160-120962-3		
Client ID:	6MW2210				
Operator ID:	KA	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

Processing Results



RT	Mass	Response	Amount
9.21	95.00	2646	0.434086
9.21	97.00	1360	
9.21	130.00	1837	

Reviewer: aguk, 20-Mar-2019 15:35:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2310 Lab Sample ID: 280-120962-4

Matrix: Water Lab File ID: LSMP4124.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 13:25

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 15:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	24		20	5.0	1.5
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U M	20	5.0	3.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8
67-64-1	Acetone	4.9	J	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.74
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.46
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.74
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.65
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.50
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.57
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	1.7	J	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2310 Lab Sample ID: 280-120962-4

Matrix: Water Lab File ID: LSMP4124.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 13:25

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 15:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.56
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.3
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.0
75-01-4	Vinyl chloride	2.0	U	5.0	2.0	1.9
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		81-118
460-00-4	4-Bromofluorobenzene (Surr)	114		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	105		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4124.D
Lims ID: 280-120962-B-4
Client ID: 6MW2310
Sample Type: Client
Inject. Date: 19-Mar-2019 15:48:30 ALS Bottle#: 12 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-014
Misc. Info.: 280-120962-b-4
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:36:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.164				ND	
3 Chloromethane	50		3.513				ND	
4 Vinyl chloride	62	3.681	3.681	0.000	95	7950	1.03	
5 Bromomethane	94	4.282	4.282	0.000	90	6574	1.57	
6 Chloroethane	64		4.491				ND	
7 Trichlorofluoromethane	101		4.742				ND	
9 1,1-Dichloroethene	96		5.552				ND	
10 Carbon disulfide	76		5.594				ND	
17 Methylene Chloride	84		6.349				ND	
18 Acetone	43	6.418	6.404	0.014	99	3400	4.89	
19 trans-1,2-Dichloroethene	96		6.544				ND	
22 Methyl tert-butyl ether	73		6.656				ND	
28 1,1-Dichloroethane	63		7.256				ND	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	83	9834	1.66	
33 2,2-Dichloropropane	77		7.941				ND	
35 Chlorobromomethane	128		8.038				ND	
36 Chloroform	83		8.094				ND	
37 Carbon tetrachloride	117		8.248				ND	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	204975	50.7	
40 1,1,1-Trichloroethane	97		8.318				ND	
43 2-Butanone (MEK)	43	8.402	8.388	0.014	98	25329	24.3	
42 1,1-Dichloropropene	75		8.429				ND	
44 Benzene	78		8.681				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	99	266906	50.7	
49 1,2-Dichloroethane	62		8.876				ND	U
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1054267	50.0	
53 Trichloroethene	95		9.212				ND	
55 Dibromomethane	93		9.617				ND	
56 1,2-Dichloropropane	63		9.714				ND	
57 Dichlorobromomethane	83		9.742				ND	
61 cis-1,3-Dichloropropene	75		10.315				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1068599	52.7	
63 Toluene	92		10.524				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.832				ND	
67 trans-1,3-Dichloropropene	75		10.888				ND	
65 Tetrachloroethene	164		10.888				ND	
68 1,1,2-Trichloroethane	83		11.041				ND	
70 Chlorodibromomethane	129		11.223				ND	
71 1,3-Dichloropropane	76		11.307				ND	
72 Ethylene Dibromide	107		11.474				ND	
74 2-Hexanone	43		11.572				ND	U
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	94	652996	50.0	
78 Ethylbenzene	91		11.907				ND	
77 Chlorobenzene	112		11.921				ND	
79 1,1,1,2-Tetrachloroethane	131		11.963				ND	
80 m-Xylene & p-Xylene	106		12.033				ND	
82 o-Xylene	106		12.438				ND	
83 Styrene	104		12.480				ND	
84 Bromoform	173		12.550				ND	
85 Isopropylbenzene	105		12.703				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.010	13.010	0.000	87	375189	56.8	
88 N-Propylbenzene	91		13.094				ND	
87 Bromobenzene	156		13.136				ND	
89 1,1,2,2-Tetrachloroethane	83		13.164				ND	
91 1,3,5-Trimethylbenzene	105		13.262				ND	
90 2-Chlorotoluene	91		13.276				ND	
92 1,2,3-Trichloropropane	110		13.318				ND	
95 4-Chlorotoluene	91		13.429				ND	
96 tert-Butylbenzene	119		13.583				ND	
97 1,2,4-Trimethylbenzene	105		13.639				ND	
98 sec-Butylbenzene	105		13.751				ND	
99 4-Isopropyltoluene	119		13.862				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	300164	50.0	
103 n-Butylbenzene	134		14.281				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.301				ND	
110 Naphthalene	128		16.320				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.516				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

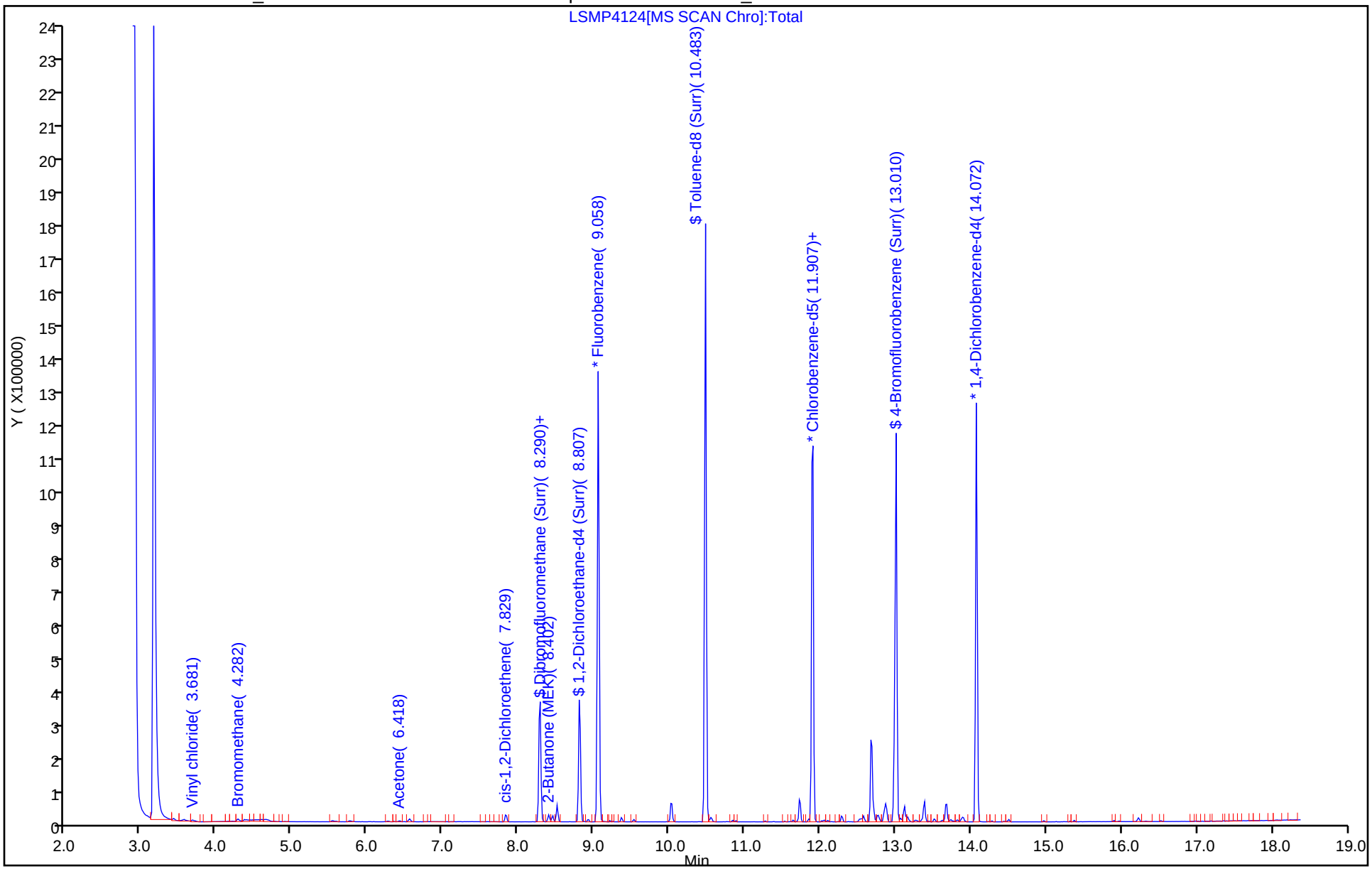
Reagents:

8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:04 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4124.D				
Injection Date:	19-Mar-2019 15:48:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	280-120962-B-4	Lab Sample ID:	160-120962-4	Worklist Smp#:	14
Client ID:	6MW2310				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4124.D
Lims ID: 280-120962-B-4
Client ID: 6MW2310
Sample Type: Client
Inject. Date: 19-Mar-2019 15:48:30 ALS Bottle#: 12 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-014
Misc. Info.: 280-120962-b-4
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:36:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.7	101.36
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.7	101.37
$ 62 Toluene-d8 (Surr)	50.0	52.7	105.45
$ 86 4-Bromofluorobenzene (Surr)	50.0	56.8	113.57

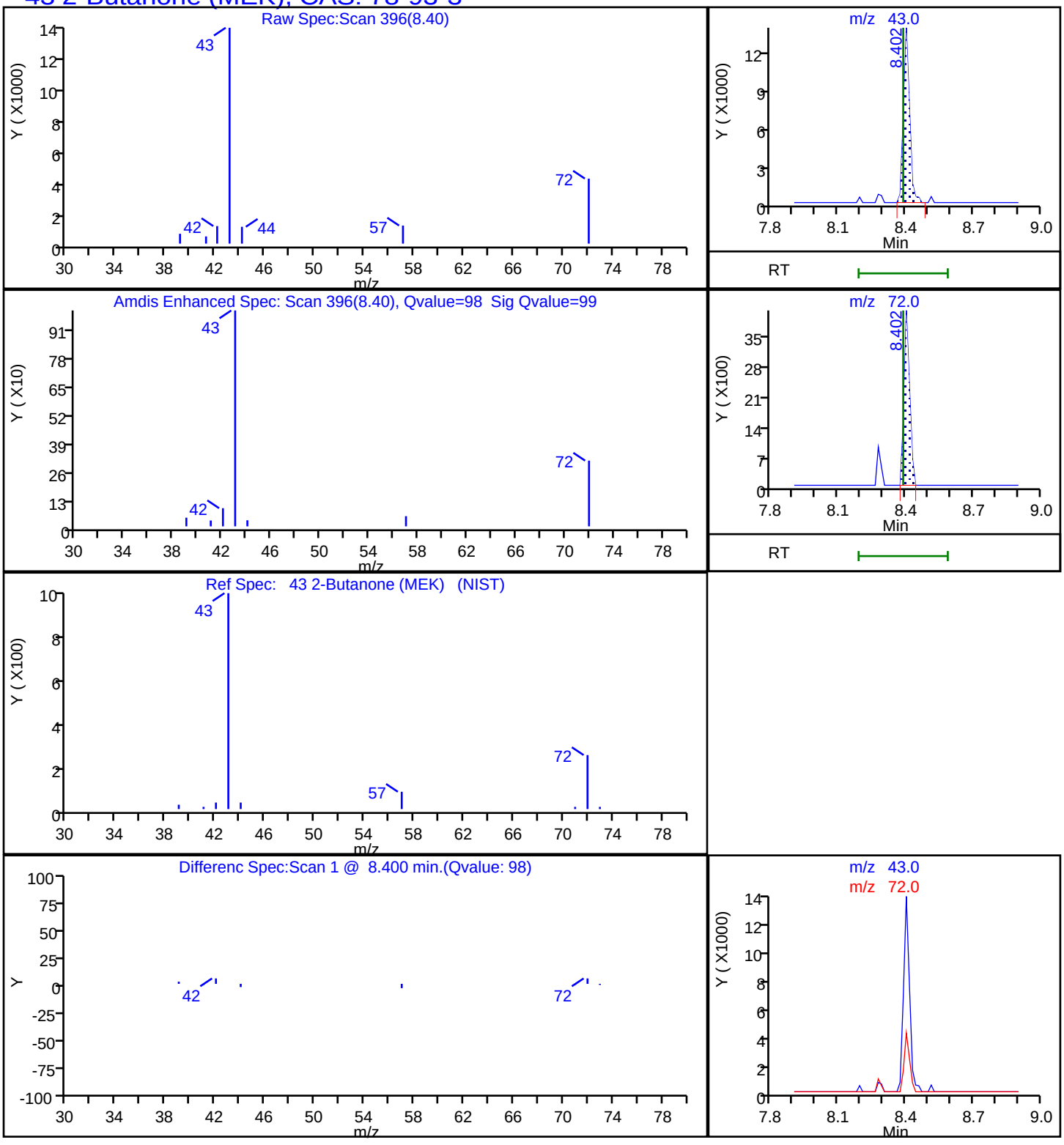
Report Date: 20-Mar-2019 15:42:04 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4124.D

Injection Date:	19-Mar-2019 15:48:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-4	Lab Sample ID:	160-120962-4		
Client ID:	6MW2310				
Operator ID:	KA	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3



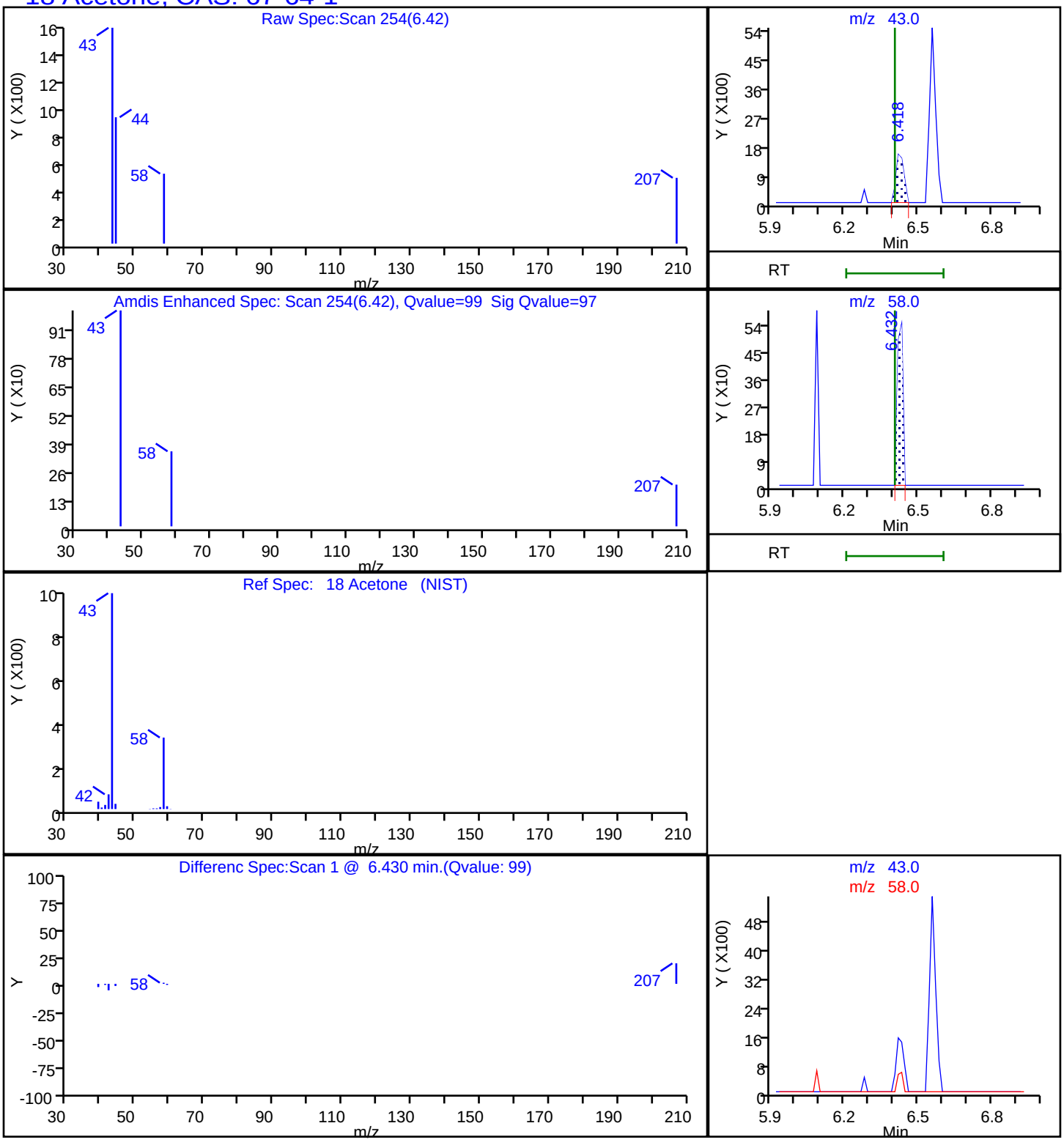
Report Date: 20-Mar-2019 15:42:04 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4124.D

Injection Date:	19-Mar-2019 15:48:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-4	Lab Sample ID:	160-120962-4		
Client ID:	6MW2310				
Operator ID:	KA	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



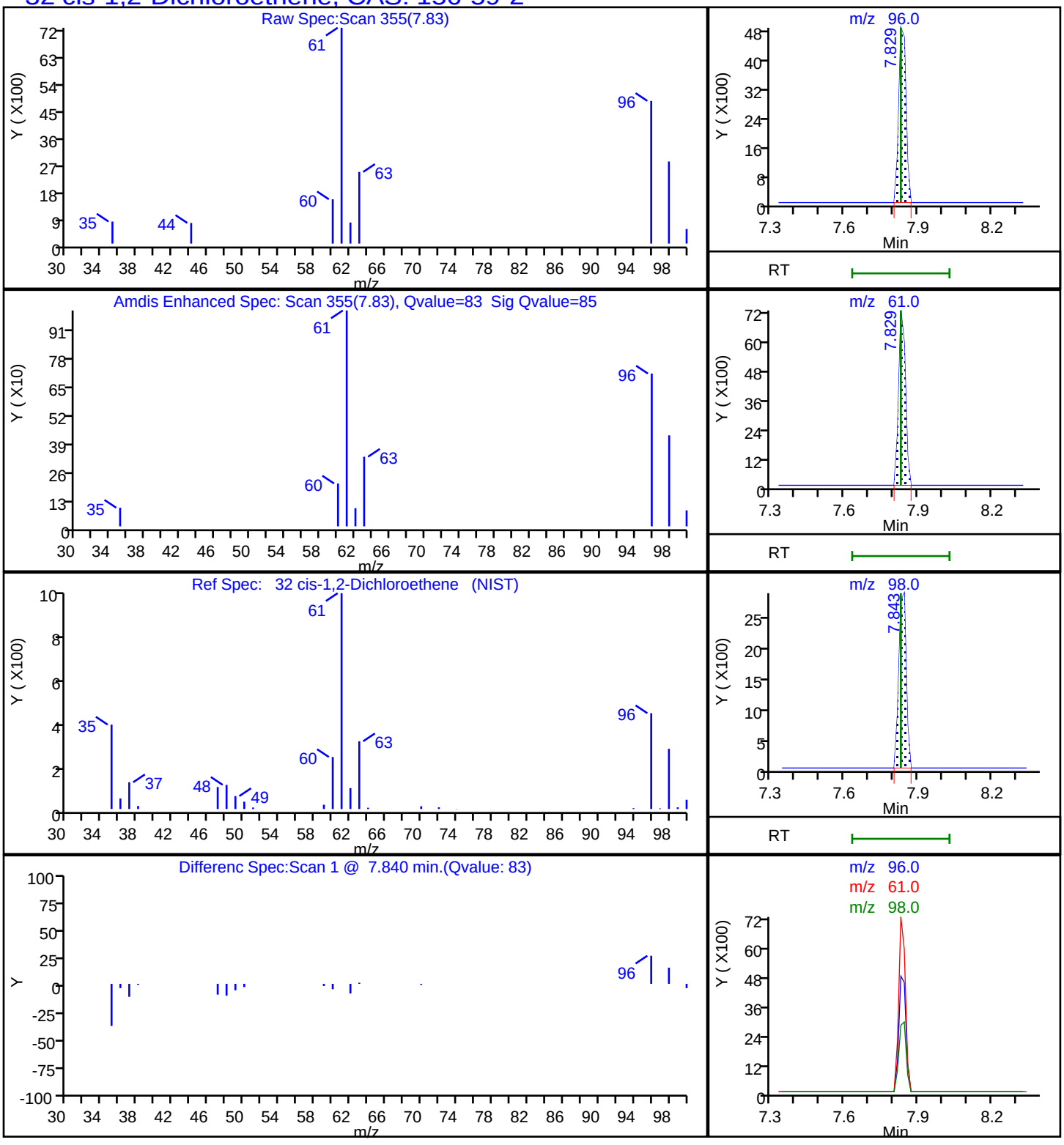
Report Date: 20-Mar-2019 15:42:04 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4124.D

Injection Date:	19-Mar-2019 15:48:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-4	Lab Sample ID:	160-120962-4		
Client ID:	6MW2310				
Operator ID:	KA	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

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



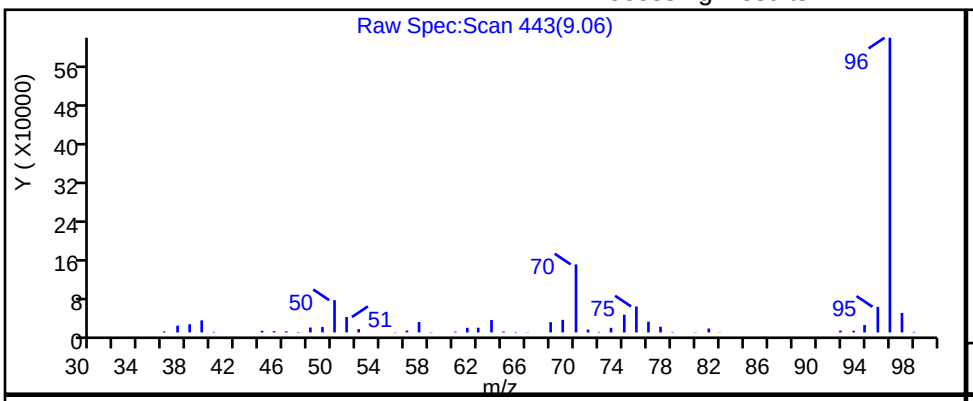
User Disabled Compound Report

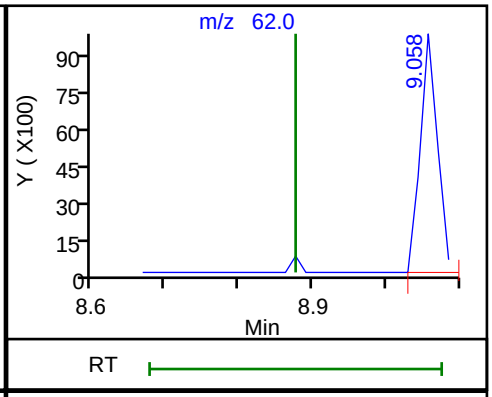
TestAmerica St. Louis

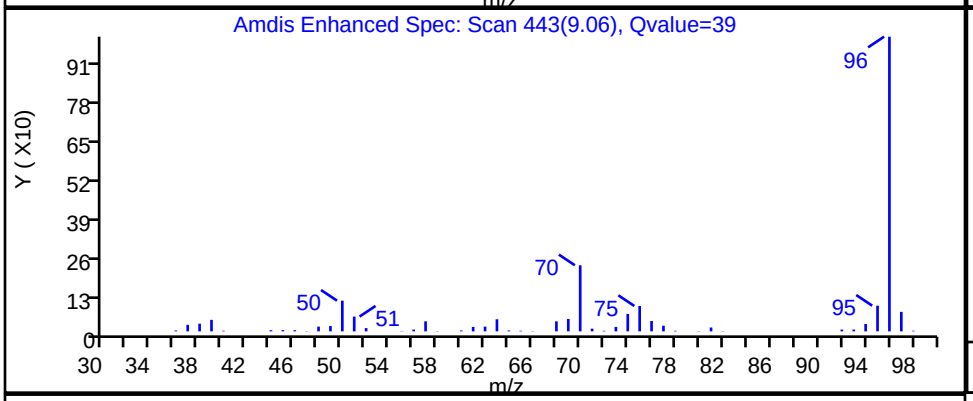
Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4124.D		
Injection Date:	19-Mar-2019 15:48:30	Instrument ID:	VMSL
Lims ID:	280-120962-B-4	Lab Sample ID:	160-120962-4
Client ID:	6MW2310		
Operator ID:	KA	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

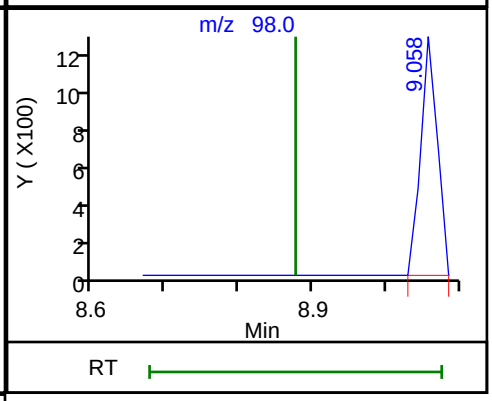
49 1,2-Dichloroethane, CAS: 107-06-2

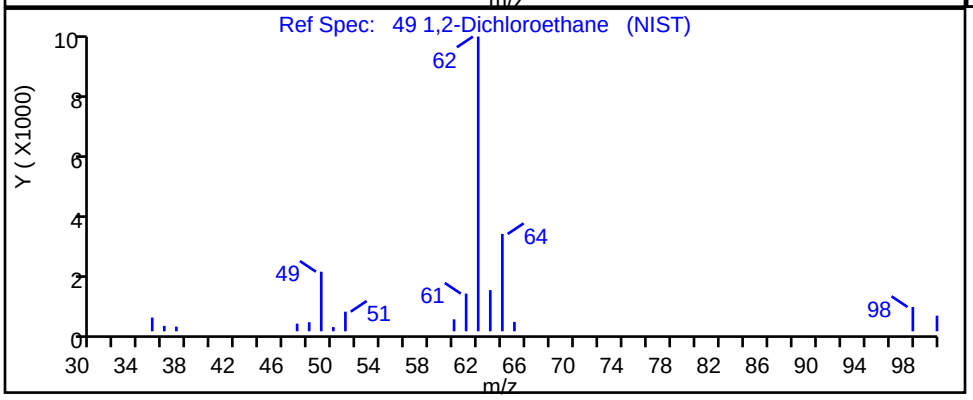
Processing Results











RT	Mass	Response	Amount
9.06	62.00	16173	2.576178
9.06	98.00	1942	

Reviewer: aguk, 20-Mar-2019 15:36:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

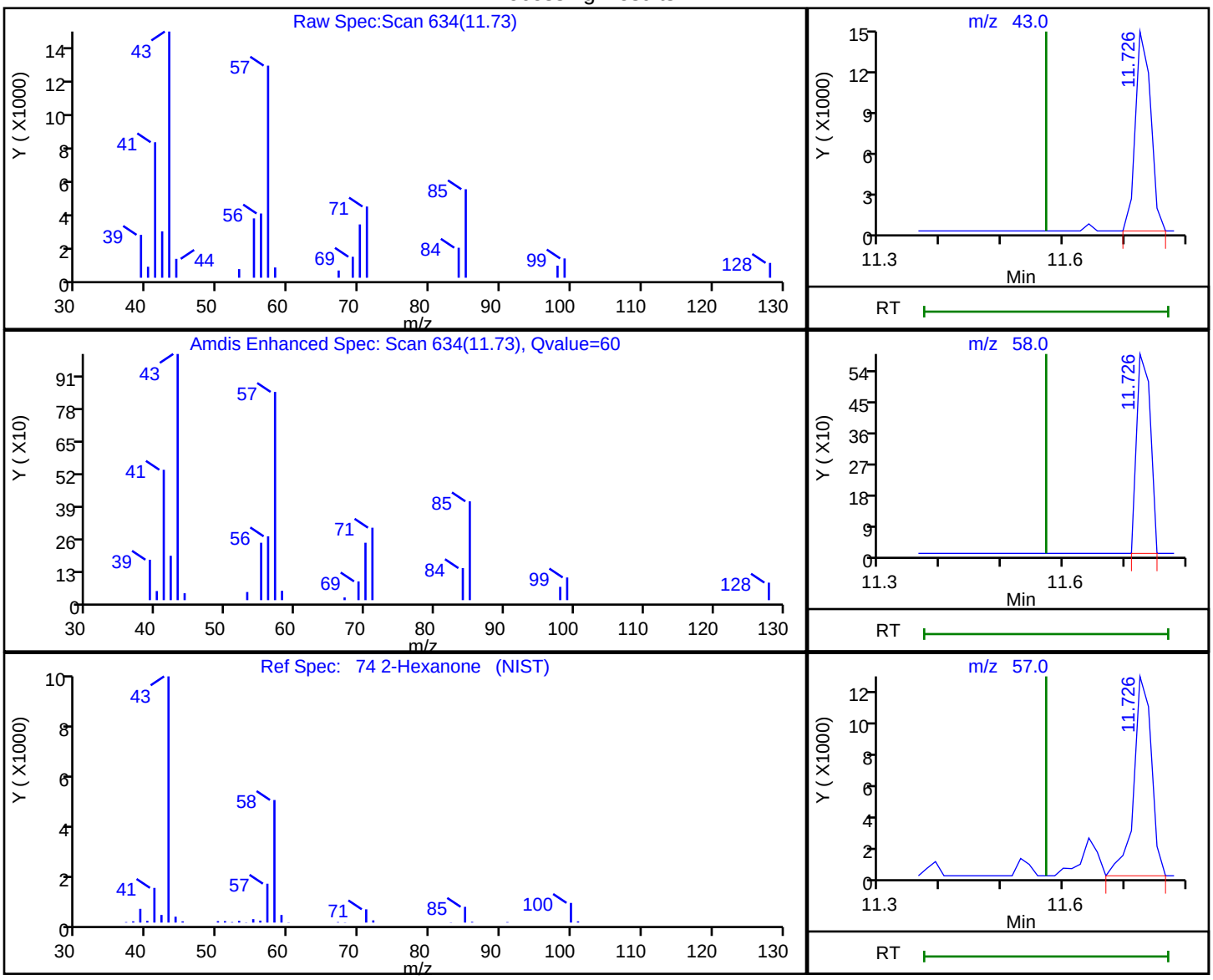
User Disabled Compound Report

TestAmerica St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4124.D				
Injection Date:	19-Mar-2019 15:48:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-4	Lab Sample ID:	160-120962-4		
Client ID:	6MW2310				
Operator ID:	KA	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

74 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
11.73	43.00	24286	16.971824
11.73	58.00	909	
11.73	57.00	24111	

Reviewer: aguk, 20-Mar-2019 15:36:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2410 Lab Sample ID: 280-120962-5

Matrix: Water Lab File ID: LSMP4125.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 14:15

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 16:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	23		20	5.0	1.5
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U M	20	5.0	3.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8
67-64-1	Acetone	4.8	J	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.74
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.46
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.74
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.65
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.50
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.57
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	3.7	J	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2410 Lab Sample ID: 280-120962-5

Matrix: Water Lab File ID: LSMP4125.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 14:15

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 16:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.56
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.3
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	1.3	J	5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.0
75-01-4	Vinyl chloride	2.0	U	5.0	2.0	1.9
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		81-118
460-00-4	4-Bromofluorobenzene (Surr)	112		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	106		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4125.D
Lims ID: 280-120962-B-5
Client ID: 6MW2410
Sample Type: Client
Inject. Date: 19-Mar-2019 16:13:30 ALS Bottle#: 13 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-015
Misc. Info.: 280-120962-b-5
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:37:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.164				ND	
3 Chloromethane	50		3.513				ND	
4 Vinyl chloride	62	3.681	3.681	0.000	94	6255	0.8408	
5 Bromomethane	94	4.282	4.282	0.000	91	4961	1.23	
6 Chloroethane	64		4.491				ND	
7 Trichlorofluoromethane	101		4.742				ND	
9 1,1-Dichloroethene	96		5.552				ND	
10 Carbon disulfide	76		5.594				ND	
17 Methylene Chloride	84		6.349				ND	
18 Acetone	43	6.418	6.404	0.014	98	3223	4.83	
19 trans-1,2-Dichloroethene	96		6.544				ND	
22 Methyl tert-butyl ether	73		6.656				ND	
28 1,1-Dichloroethane	63		7.256				ND	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	80	20833	3.67	
33 2,2-Dichloropropane	77		7.941				ND	
35 Chlorobromomethane	128		8.038				ND	
36 Chloroform	83		8.094				ND	
37 Carbon tetrachloride	117		8.248				ND	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	195664	50.4	
40 1,1,1-Trichloroethane	97		8.318				ND	
43 2-Butanone (MEK)	43	8.402	8.388	0.014	96	22774	22.8	
42 1,1-Dichloropropene	75		8.429				ND	
44 Benzene	78		8.681				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	98	249466	49.4	
49 1,2-Dichloroethane	62		8.876				ND	U
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1011918	50.0	
53 Trichloroethene	95	9.212	9.212	0.000	92	8255	1.30	
55 Dibromomethane	93		9.617				ND	
56 1,2-Dichloropropane	63		9.714				ND	
57 Dichlorobromomethane	83		9.742				ND	
61 cis-1,3-Dichloropropene	75		10.315				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1026311	53.2	
63 Toluene	92		10.524				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.832				ND	
67 trans-1,3-Dichloropropene	75		10.888				ND	
65 Tetrachloroethene	164		10.888				ND	
68 1,1,2-Trichloroethane	83		11.041				ND	
70 Chlorodibromomethane	129		11.223				ND	
71 1,3-Dichloropropane	76		11.307				ND	
72 Ethylene Dibromide	107		11.474				ND	
74 2-Hexanone	43		11.572				ND	U
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	91	621973	50.0	
78 Ethylbenzene	91		11.907				ND	
77 Chlorobenzene	112		11.921				ND	
79 1,1,1,2-Tetrachloroethane	131		11.963				ND	
80 m-Xylene & p-Xylene	106		12.033				ND	
82 o-Xylene	106		12.438				ND	
83 Styrene	104		12.480				ND	
84 Bromoform	173		12.550				ND	
85 Isopropylbenzene	105		12.703				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.010	0.000	86	353294	56.2	
88 N-Propylbenzene	91		13.094				ND	
87 Bromobenzene	156		13.136				ND	
89 1,1,2,2-Tetrachloroethane	83		13.164				ND	
91 1,3,5-Trimethylbenzene	105		13.262				ND	
90 2-Chlorotoluene	91		13.276				ND	
92 1,2,3-Trichloropropane	110		13.318				ND	
95 4-Chlorotoluene	91		13.429				ND	
96 tert-Butylbenzene	119		13.583				ND	
97 1,2,4-Trimethylbenzene	105		13.639				ND	
98 sec-Butylbenzene	105		13.751				ND	
99 4-Isopropyltoluene	119		13.862				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	285556	50.0	
103 n-Butylbenzene	134		14.281				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.301				ND	
110 Naphthalene	128		16.320				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.516				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

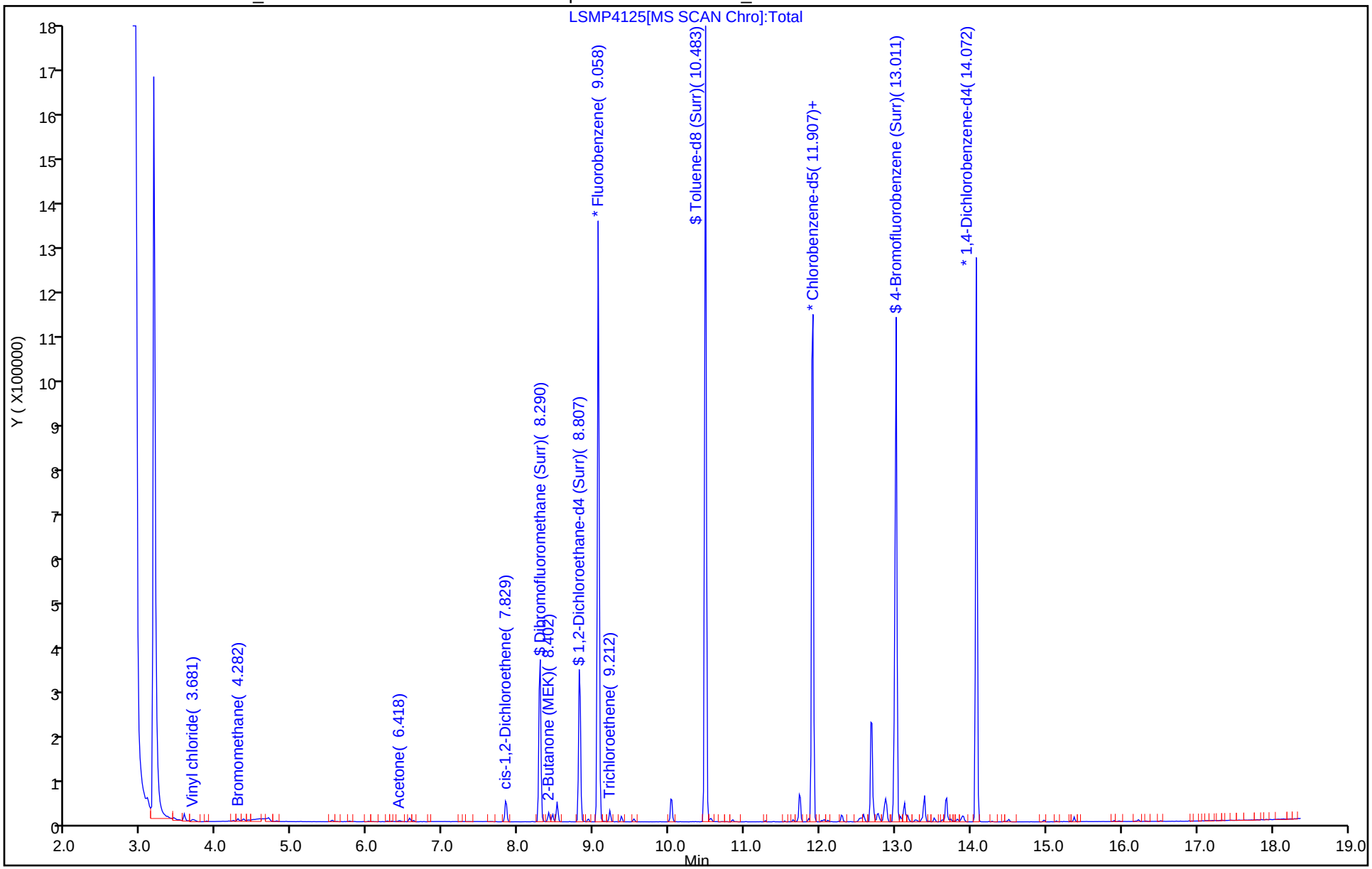
Reagents:

8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:05 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4125.D				
Injection Date:	19-Mar-2019 16:13:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	280-120962-B-5	Lab Sample ID:	160-120962-5	Worklist Smp#:	15
Client ID:	6MW2410				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4125.D
Lims ID: 280-120962-B-5
Client ID: 6MW2410
Sample Type: Client
Inject. Date: 19-Mar-2019 16:13:30 ALS Bottle#: 13 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-015
Misc. Info.: 280-120962-b-5
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:37:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.4	100.80
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	49.4	98.71
$ 62 Toluene-d8 (Surr)	50.0	53.2	106.33
$ 86 4-Bromofluorobenzene (Surr)	50.0	56.2	112.41

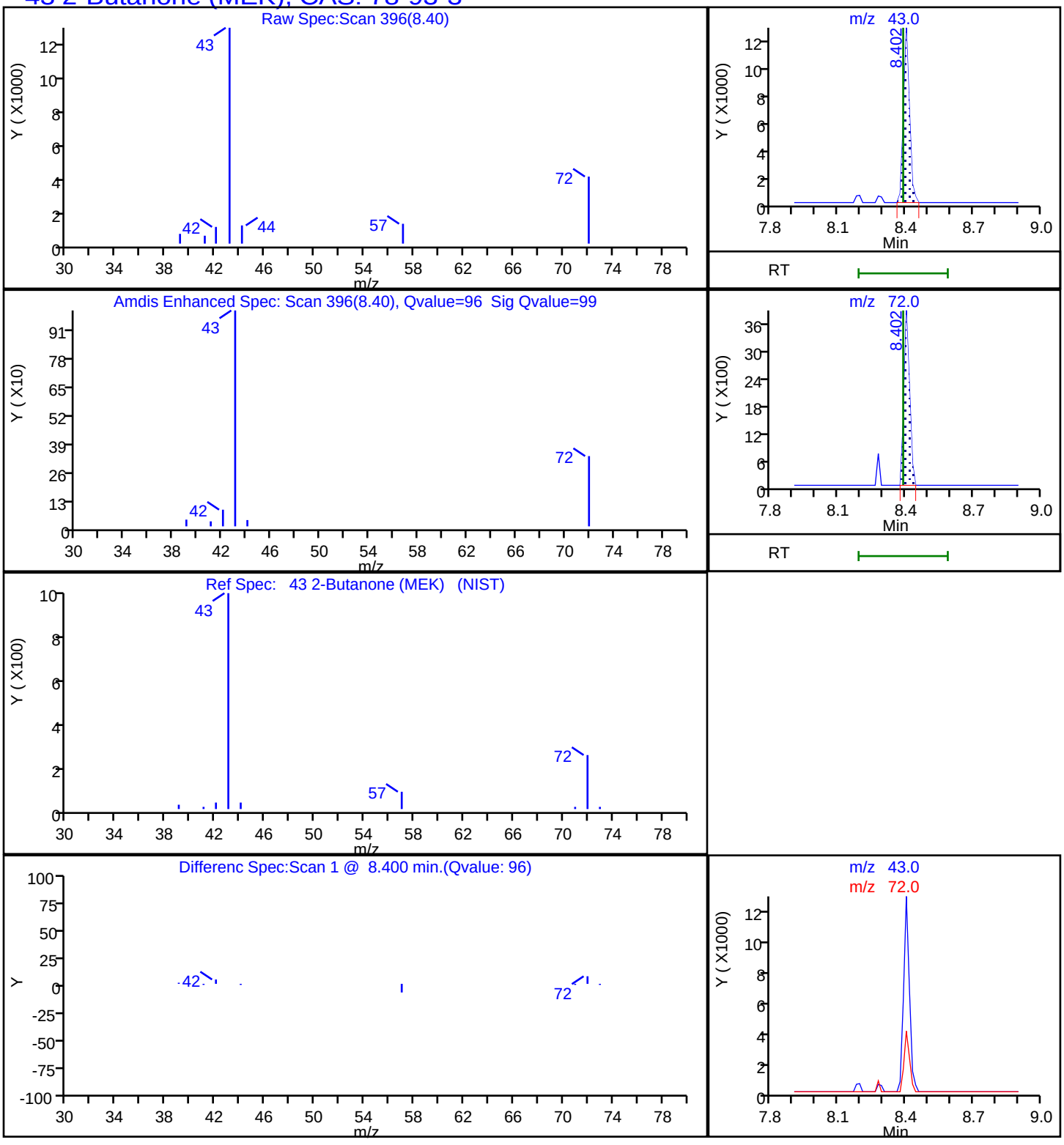
Report Date: 20-Mar-2019 15:42:05 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4125.D

Injection Date:	19-Mar-2019 16:13:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-5	Lab Sample ID:	160-120962-5		
Client ID:	6MW2410				
Operator ID:	KA	ALS Bottle#:	13	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3



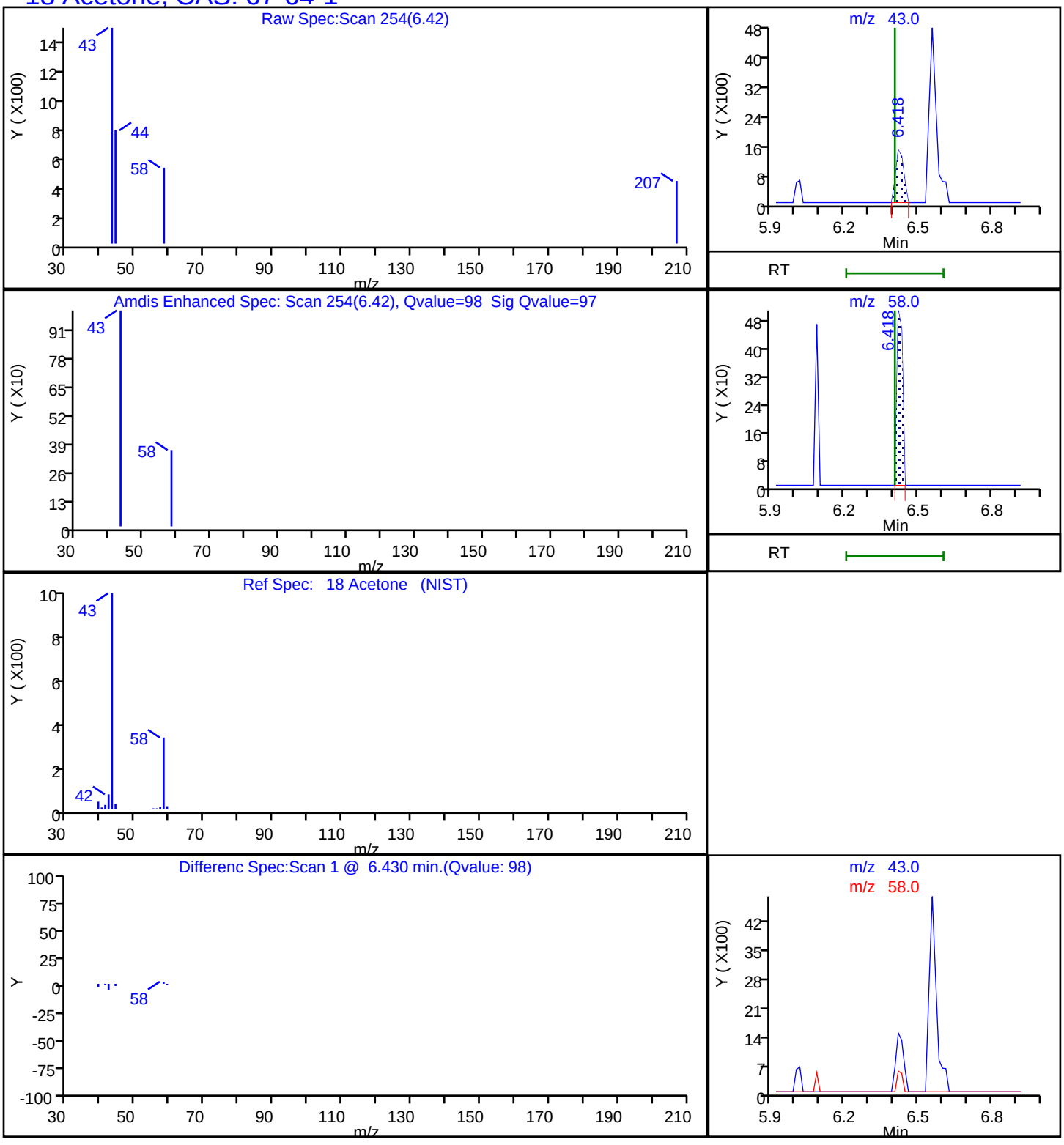
Report Date: 20-Mar-2019 15:42:05 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4125.D

Injection Date:	19-Mar-2019 16:13:30	Instrument ID:	VMSL
Lims ID:	280-120962-B-5	Lab Sample ID:	160-120962-5
Client ID:	6MW2410		
Operator ID:	KA	ALS Bottle#:	13 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

18 Acetone, CAS: 67-64-1



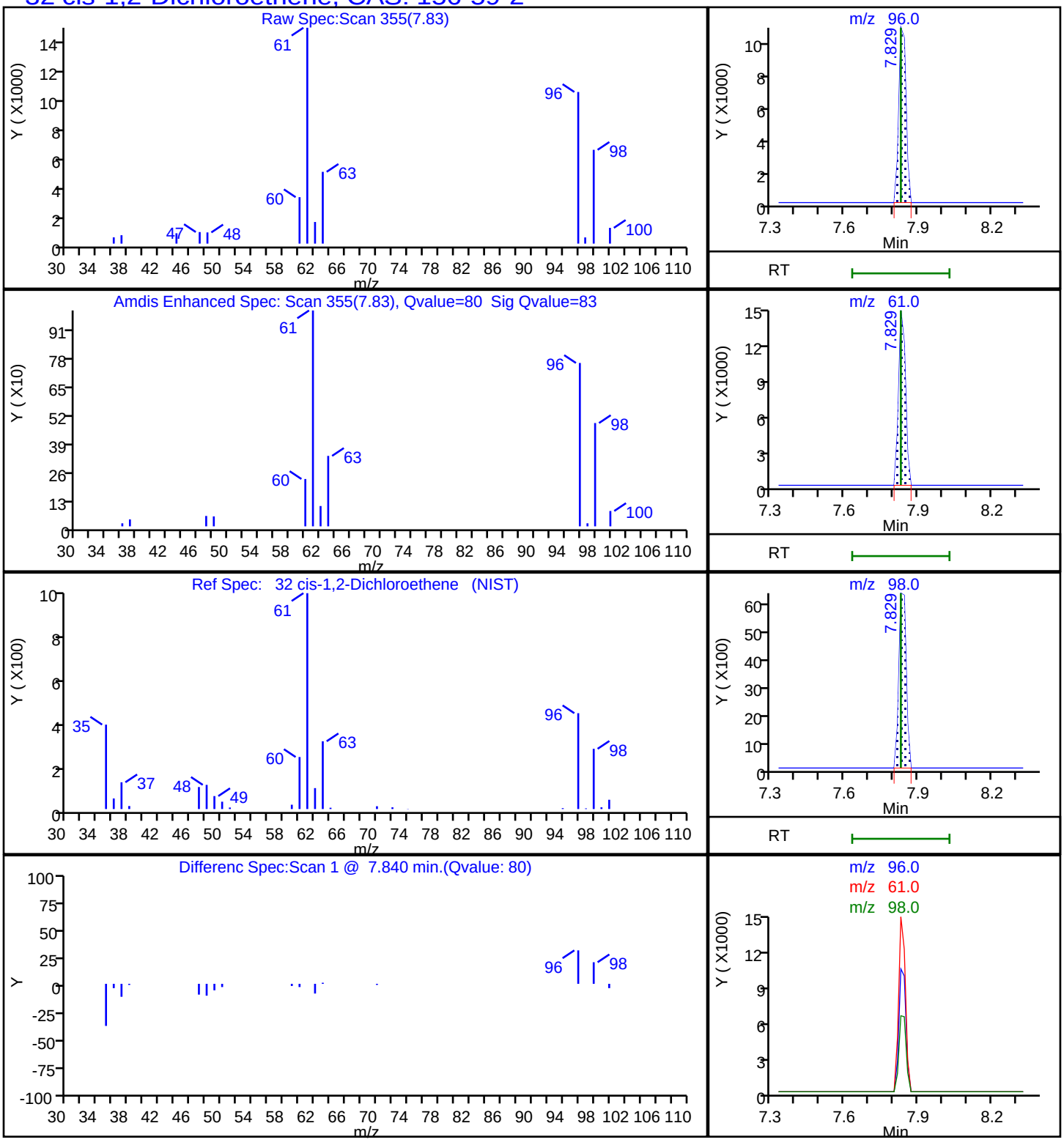
Report Date: 20-Mar-2019 15:42:05 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4125.D

Injection Date:	19-Mar-2019 16:13:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-5	Lab Sample ID:	160-120962-5		
Client ID:	6MW2410				
Operator ID:	KA	ALS Bottle#:	13	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

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



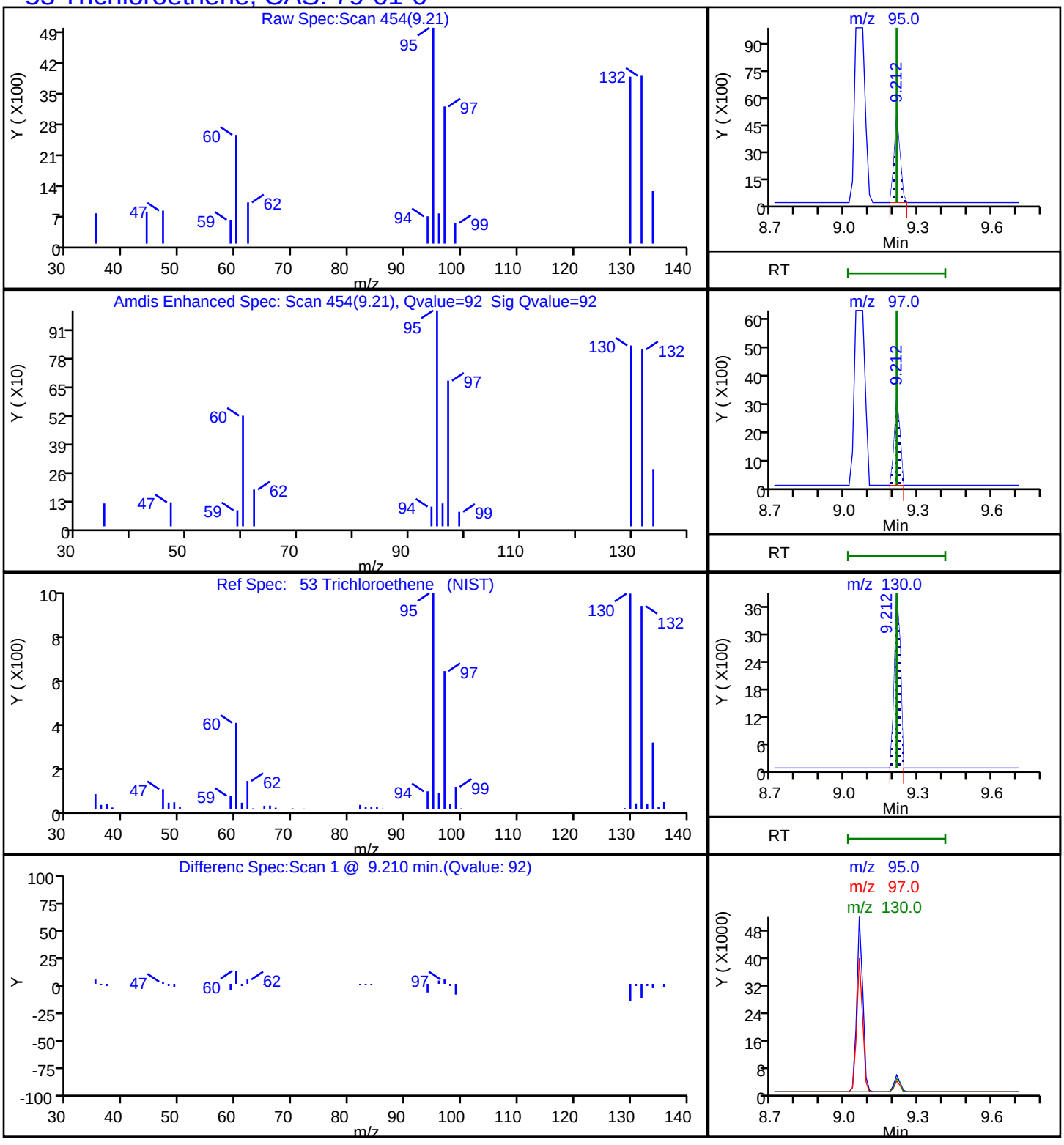
Report Date: 20-Mar-2019 15:42:05 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4125.D

Injection Date:	19-Mar-2019 16:13:30	Instrument ID:	VMSL
Lims ID:	280-120962-B-5	Lab Sample ID:	160-120962-5
Client ID:	6MW2410		
Operator ID:	KA	ALS Bottle#:	13 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

53 Trichloroethene, CAS: 79-01-6



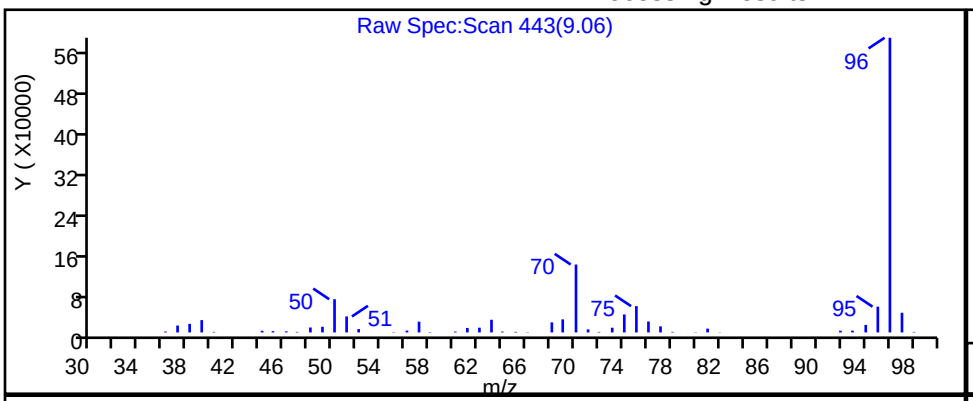
User Disabled Compound Report

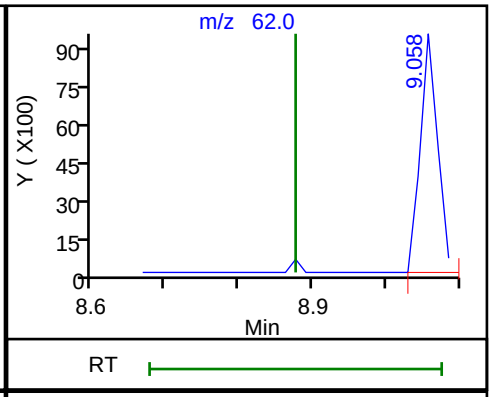
TestAmerica St. Louis

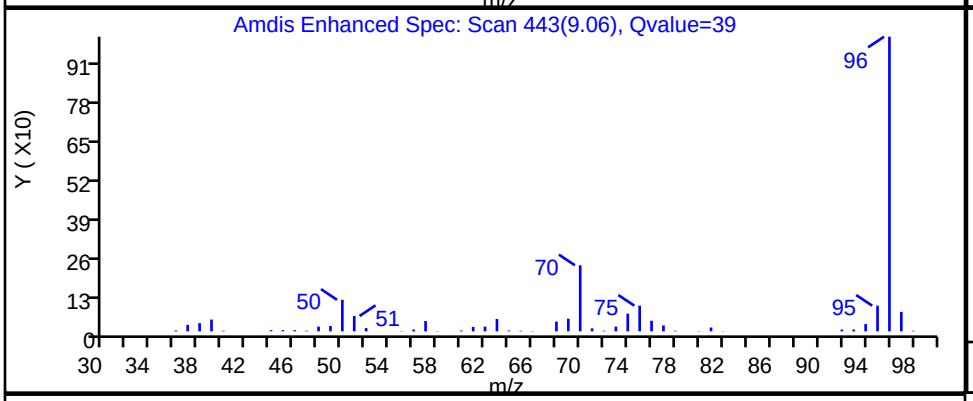
Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4125.D				
Injection Date:	19-Mar-2019 16:13:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-5	Lab Sample ID:	160-120962-5		
Client ID:	6MW2410				
Operator ID:	KA	ALS Bottle#:	13	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

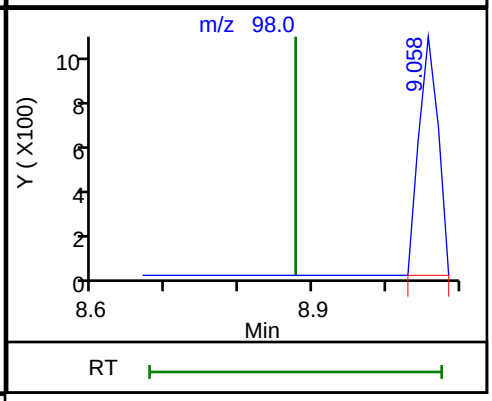
49 1,2-Dichloroethane, CAS: 107-06-2

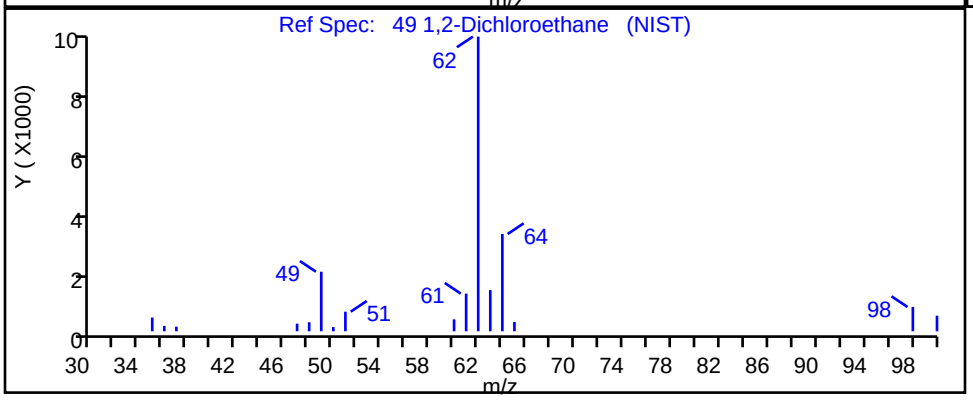
Processing Results











RT	Mass	Response	Amount
9.06	62.00	15686	2.603172
9.06	98.00	1833	

Reviewer: aguk, 20-Mar-2019 15:37:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

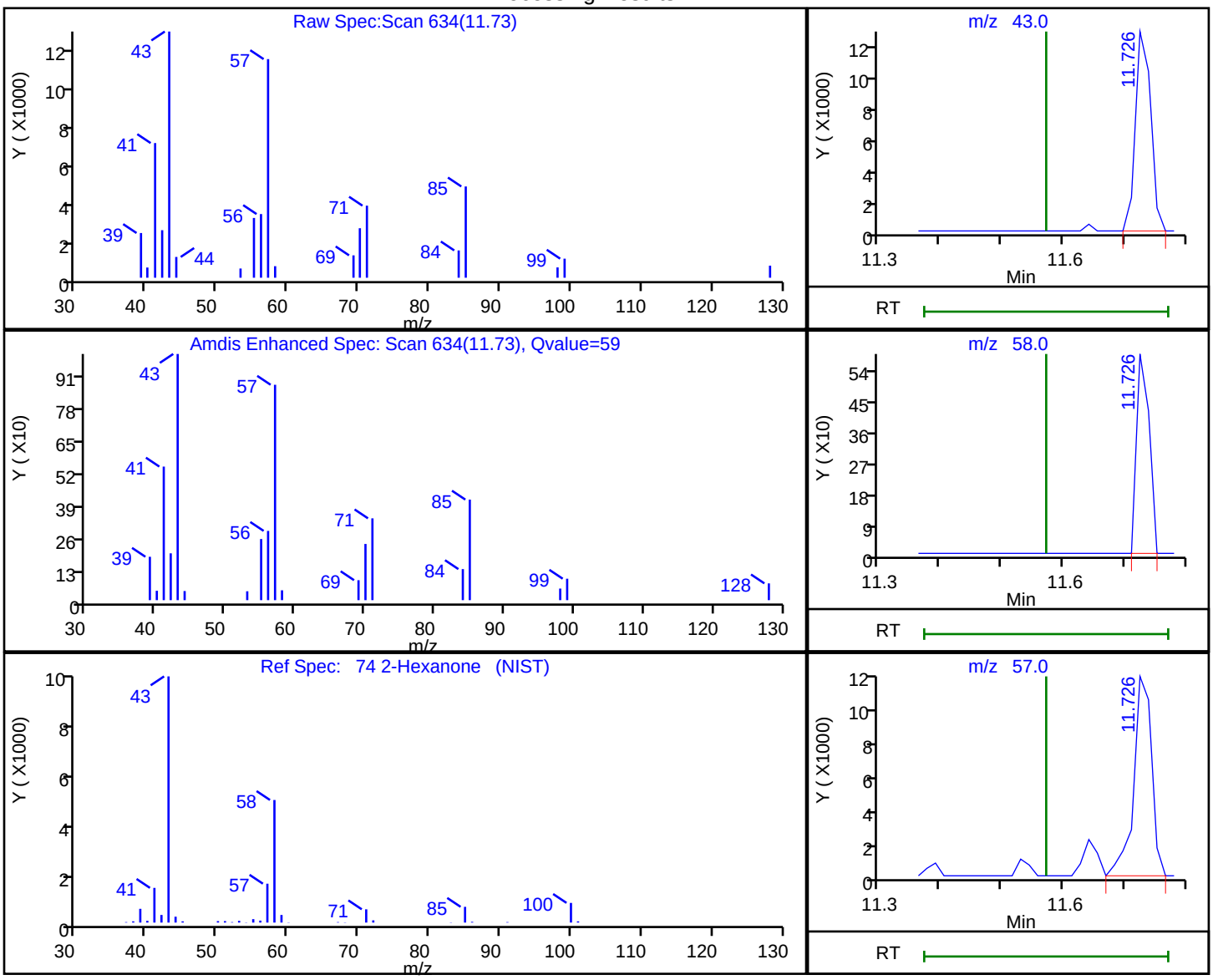
User Disabled Compound Report

TestAmerica St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4125.D				
Injection Date:	19-Mar-2019 16:13:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-5	Lab Sample ID:	160-120962-5		
Client ID:	6MW2410				
Operator ID:	KA	ALS Bottle#:	13	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

74 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
11.73	43.00	21814	16.190401
11.73	58.00	842	
11.73	57.00	22628	

Reviewer: aguk, 20-Mar-2019 15:37:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2510 Lab Sample ID: 280-120962-6

Matrix: Water Lab File ID: LSMP4126.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 17:30

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 16:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	20		20	5.0	1.5
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	3.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8
67-64-1	Acetone	6.1	J	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.74
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.46
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.74
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.65
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.50
75-00-3	Chloroethane	2.5	U M	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.57
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	2.5	U	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2510 Lab Sample ID: 280-120962-6

Matrix: Water Lab File ID: LSMP4126.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 17:30

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 16:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.56
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.3
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.0
75-01-4	Vinyl chloride	2.0	U	5.0	2.0	1.9
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		81-118
460-00-4	4-Bromofluorobenzene (Surr)	113		85-114
1868-53-7	Dibromofluoromethane (Surr)	102		80-119
2037-26-5	Toluene-d8 (Surr)	106		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4126.D
Lims ID: 280-120962-B-6
Client ID: 6MW2510
Sample Type: Client
Inject. Date: 19-Mar-2019 16:38:30 ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-016
Misc. Info.: 280-120962-b-6
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:38:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.164				ND	
3 Chloromethane	50		3.513				ND	
4 Vinyl chloride	62		3.681				ND	
5 Bromomethane	94	4.282	4.282	0.000	91	5343	1.30	
6 Chloroethane	64		4.491				ND	U
7 Trichlorofluoromethane	101		4.742				ND	
9 1,1-Dichloroethene	96		5.552				ND	
10 Carbon disulfide	76		5.594				ND	
17 Methylene Chloride	84		6.349				ND	
18 Acetone	43	6.418	6.404	0.014	98	4131	6.09	
19 trans-1,2-Dichloroethene	96		6.544				ND	
22 Methyl tert-butyl ether	73		6.656				ND	
28 1,1-Dichloroethane	63		7.256				ND	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	79	3913	0.6779	
33 2,2-Dichloropropane	77		7.941				ND	
35 Chlorobromomethane	128		8.038				ND	
36 Chloroform	83		8.094				ND	
37 Carbon tetrachloride	117		8.248				ND	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	201341	51.0	
40 1,1,1-Trichloroethane	97		8.318				ND	
43 2-Butanone (MEK)	43	8.402	8.388	0.014	97	20642	20.3	
42 1,1-Dichloropropene	75		8.429				ND	
44 Benzene	78		8.681				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	98	260043	50.6	
49 1,2-Dichloroethane	62		8.876				ND	U
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1029708	50.0	
53 Trichloroethene	95		9.212				ND	
55 Dibromomethane	93		9.617				ND	
56 1,2-Dichloropropane	63		9.714				ND	
57 Dichlorobromomethane	83		9.742				ND	
61 cis-1,3-Dichloropropene	75		10.315				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1046838	53.2	
63 Toluene	92		10.524				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.832				ND	
67 trans-1,3-Dichloropropene	75		10.888				ND	
65 Tetrachloroethene	164		10.888				ND	
68 1,1,2-Trichloroethane	83		11.041				ND	
70 Chlorodibromomethane	129		11.223				ND	
71 1,3-Dichloropropane	76		11.307				ND	
72 Ethylene Dibromide	107		11.474				ND	
74 2-Hexanone	43		11.572				ND	
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	91	634350	50.0	
78 Ethylbenzene	91		11.907				ND	
77 Chlorobenzene	112		11.921				ND	
79 1,1,1,2-Tetrachloroethane	131		11.963				ND	
80 m-Xylene & p-Xylene	106		12.033				ND	
82 o-Xylene	106		12.438				ND	
83 Styrene	104		12.480				ND	
84 Bromoform	173		12.550				ND	
85 Isopropylbenzene	105		12.703				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.010	0.001	86	363592	56.4	
88 N-Propylbenzene	91		13.094				ND	
87 Bromobenzene	156		13.136				ND	
89 1,1,2,2-Tetrachloroethane	83		13.164				ND	
91 1,3,5-Trimethylbenzene	105		13.262				ND	
90 2-Chlorotoluene	91		13.276				ND	
92 1,2,3-Trichloropropane	110		13.318				ND	
95 4-Chlorotoluene	91		13.429				ND	
96 tert-Butylbenzene	119		13.583				ND	
97 1,2,4-Trimethylbenzene	105		13.639				ND	
98 sec-Butylbenzene	105		13.751				ND	
99 4-Isopropyltoluene	119		13.862				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	293085	50.0	
103 n-Butylbenzene	134		14.281				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.301				ND	
110 Naphthalene	128		16.320				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.516				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

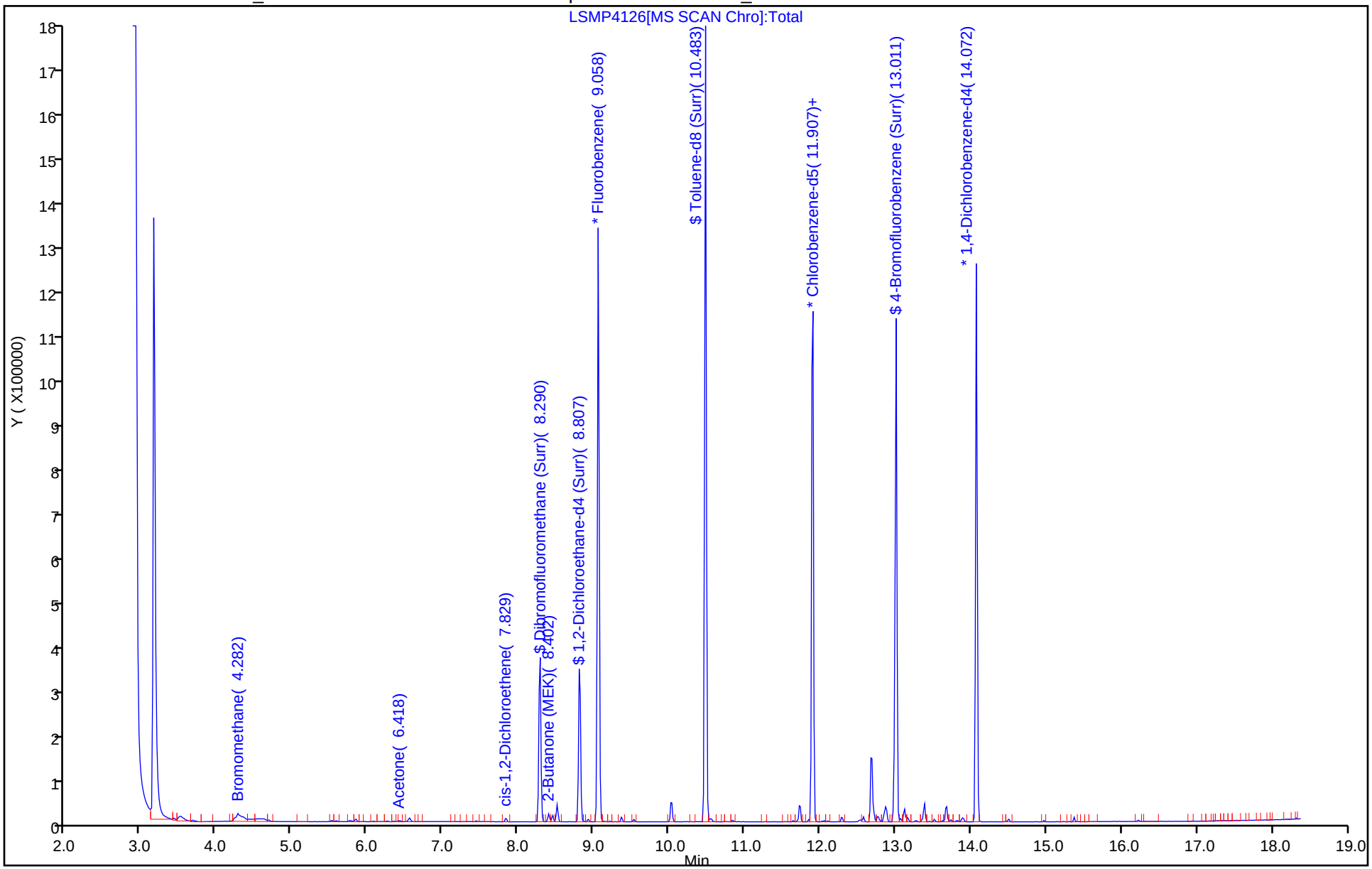
Reagents:

8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:07 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4126.D				
Injection Date:	19-Mar-2019 16:38:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	280-120962-B-6	Lab Sample ID:	160-120962-6	Worklist Smp#:	16
Client ID:	6MW2510				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4126.D
Lims ID: 280-120962-B-6
Client ID: 6MW2510
Sample Type: Client
Inject. Date: 19-Mar-2019 16:38:30 ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-016
Misc. Info.: 280-120962-b-6
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:38:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	51.0	101.94
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.6	101.12
$ 62 Toluene-d8 (Surr)	50.0	53.2	106.34
$ 86 4-Bromofluorobenzene (Surr)	50.0	56.4	112.72

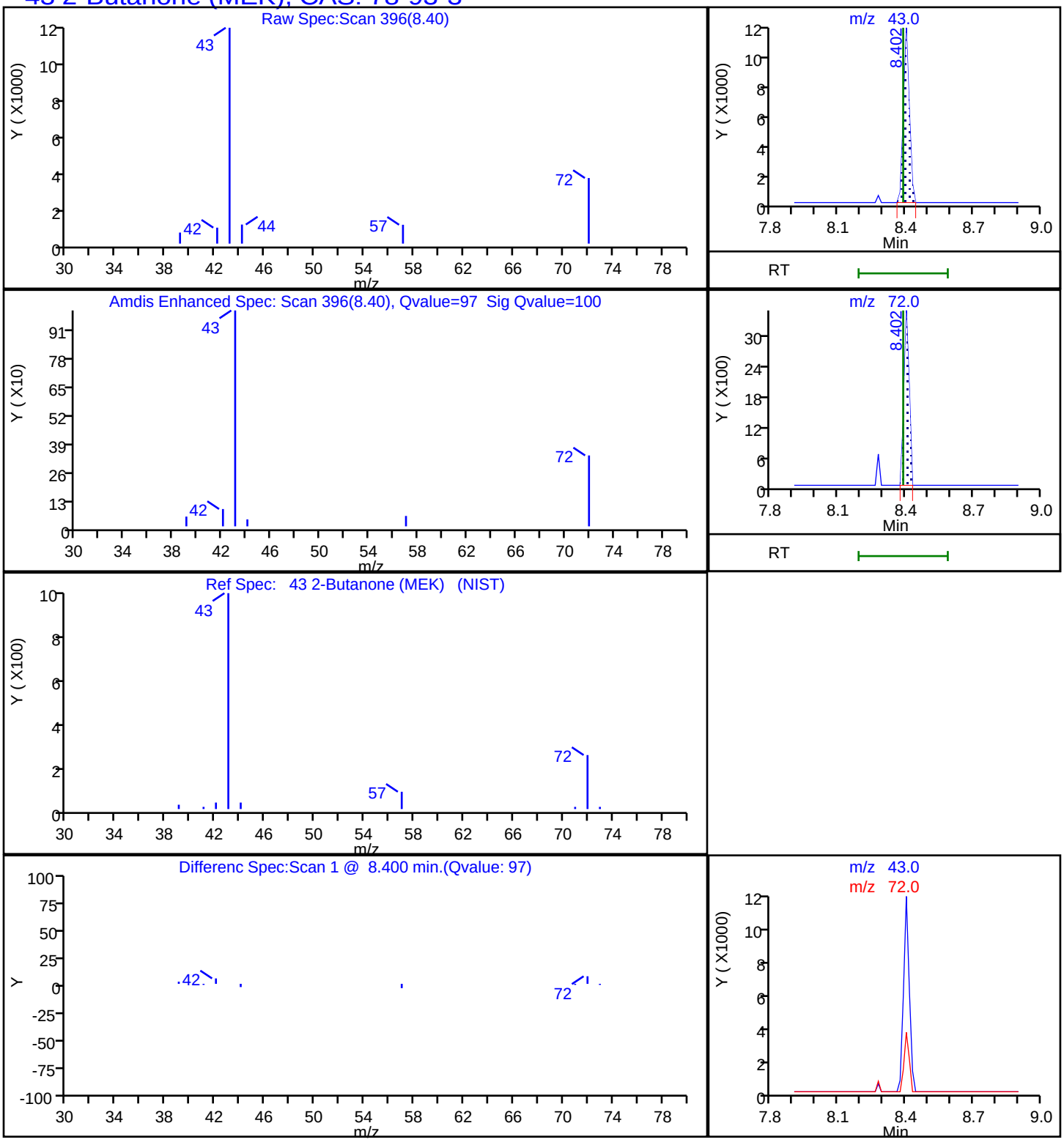
Report Date: 20-Mar-2019 15:42:07 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4126.D

Injection Date:	19-Mar-2019 16:38:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-6	Lab Sample ID:	160-120962-6		
Client ID:	6MW2510				
Operator ID:	KA	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3



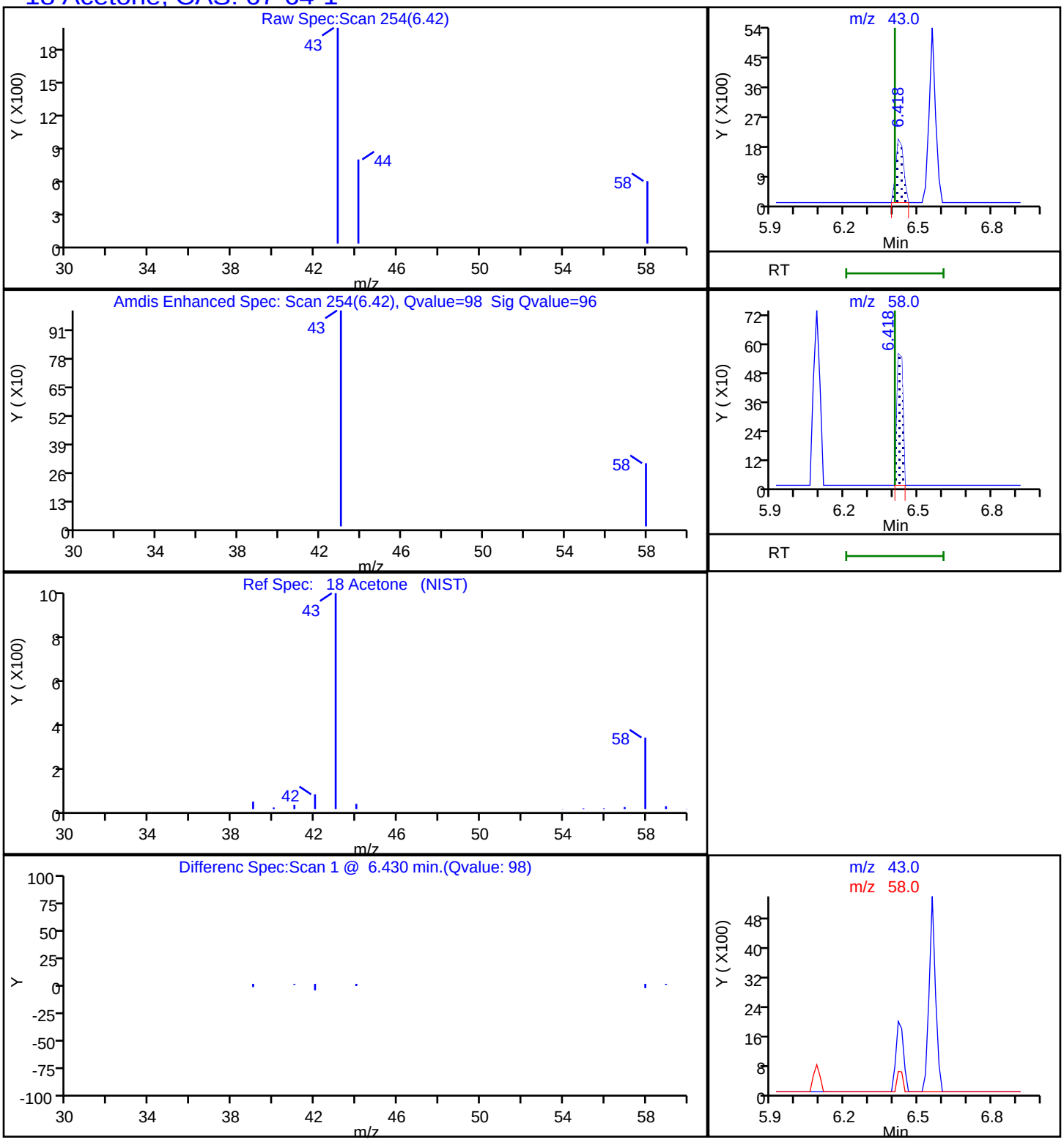
Report Date: 20-Mar-2019 15:42:07 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4126.D

Injection Date:	19-Mar-2019 16:38:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-6	Lab Sample ID:	160-120962-6		
Client ID:	6MW2510				
Operator ID:	KA	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



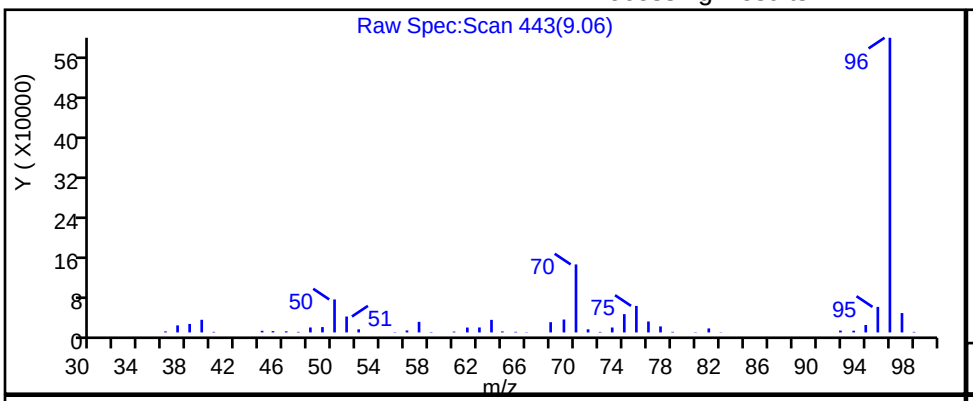
User Disabled Compound Report

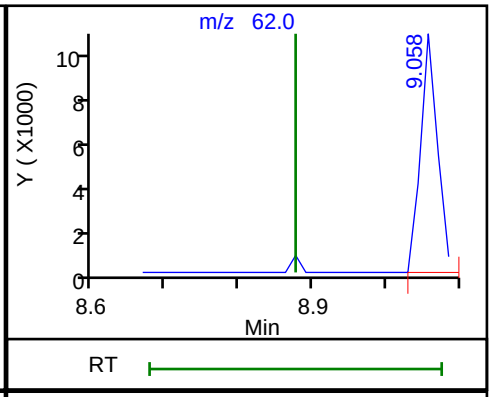
TestAmerica St. Louis

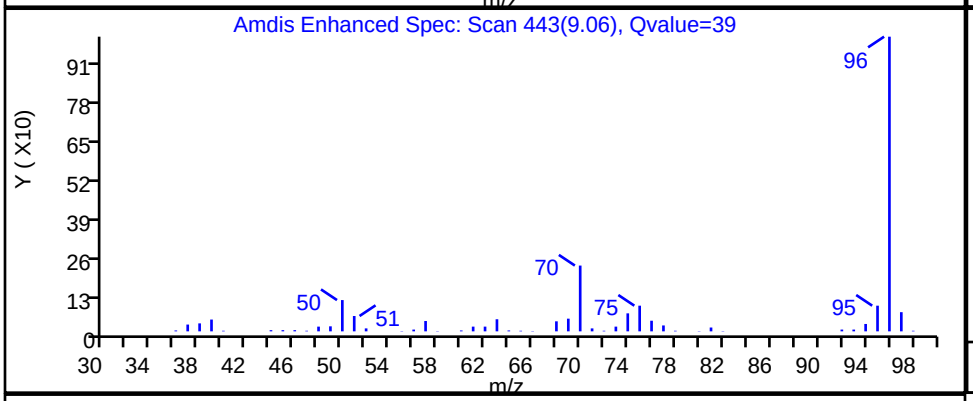
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Injection Date:	19-Mar-2019 16:38:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-6	Lab Sample ID:	160-120962-6		
Client ID:	6MW2510				
Operator ID:	KA	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

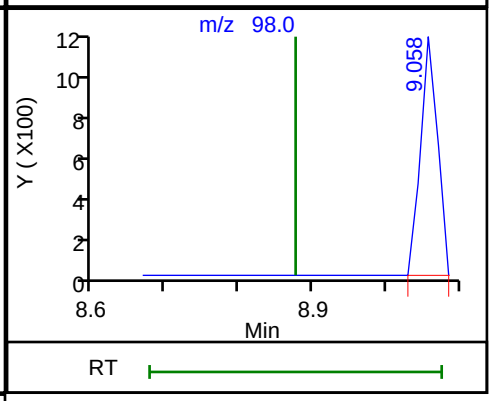
49 1,2-Dichloroethane, CAS: 107-06-2

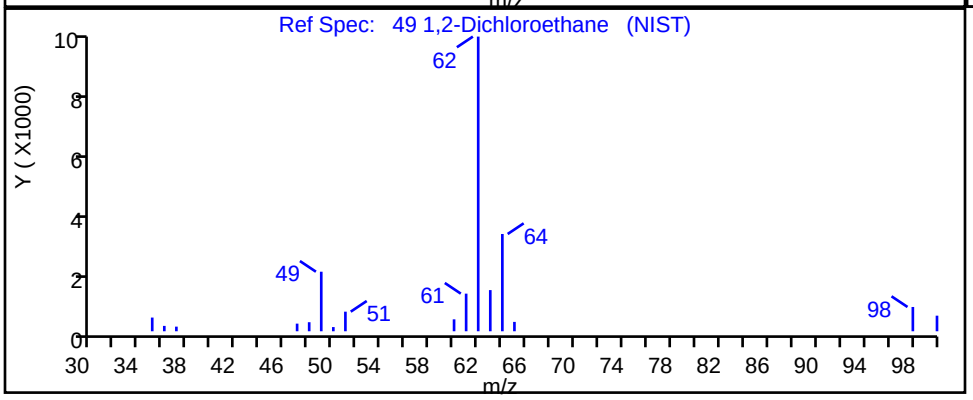
Processing Results











RT	Mass	Response	Amount
9.06	62.00	16251	2.650342
9.06	98.00	1818	

Reviewer: aguk, 20-Mar-2019 15:38:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

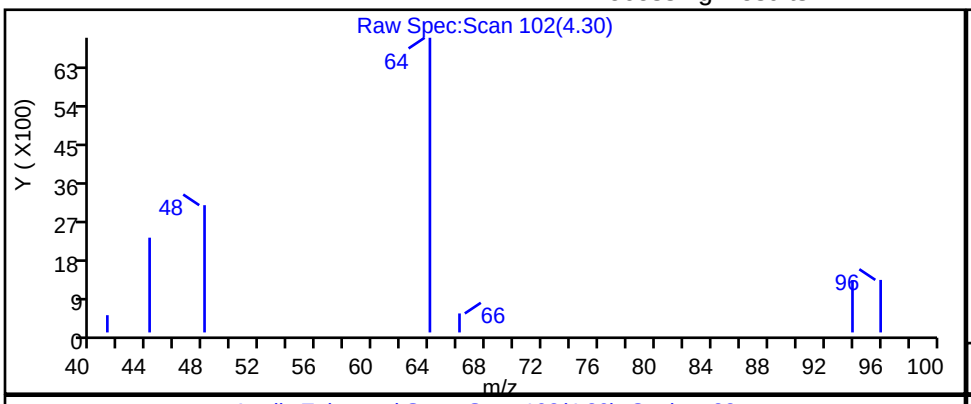
User Disabled Compound Report

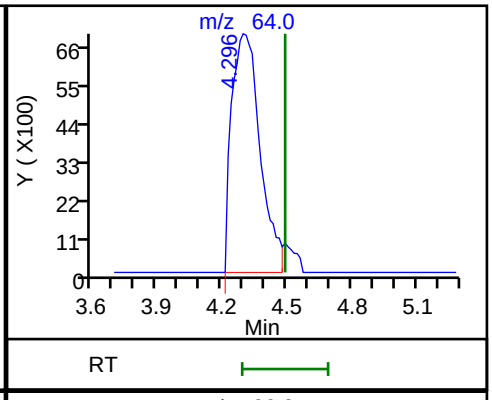
TestAmerica St. Louis

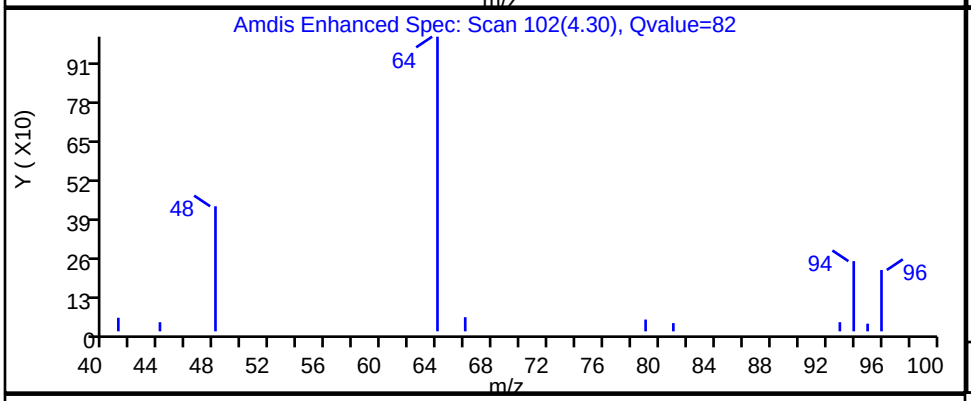
Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4126.D		
Injection Date:	19-Mar-2019 16:38:30	Instrument ID:	VMSL
Lims ID:	280-120962-B-6	Lab Sample ID:	160-120962-6
Client ID:	6MW2510		
Operator ID:	KA	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

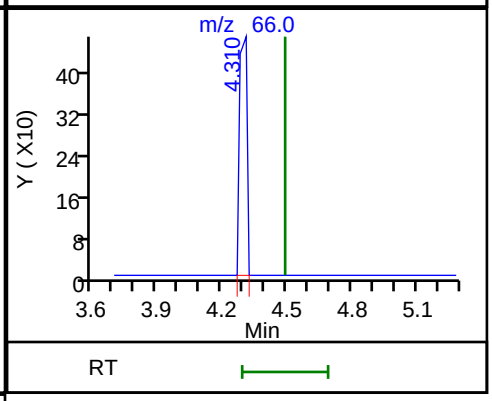
6 Chloroethane, CAS: 75-00-3

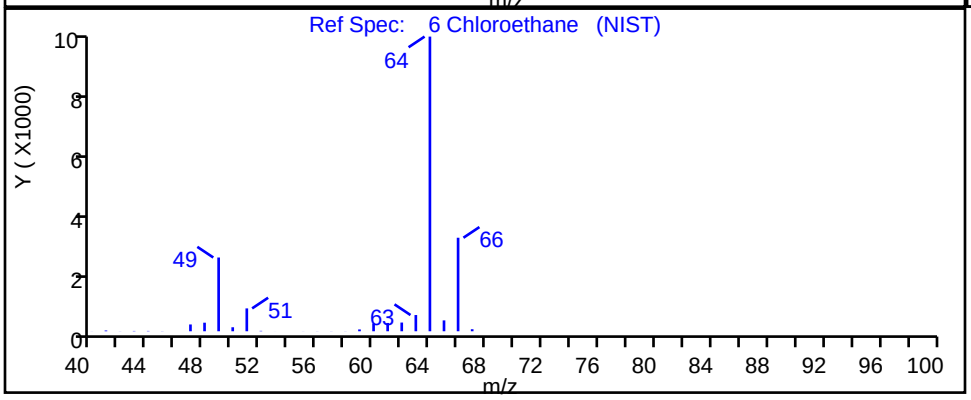
Processing Results











RT	Mass	Response	Amount
4.30	64.00	64037	14.689214
4.31	66.00	1127	

Reviewer: aguk, 20-Mar-2019 15:38:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2610 Lab Sample ID: 280-120962-7

Matrix: Water Lab File ID: LSMP4127.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 16:10

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 17:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	19	J	20	5.0	1.5
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	3.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8
67-64-1	Acetone	4.7	J	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.74
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.46
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U M	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.74
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.65
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.50
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.57
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	0.94	J	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2610 Lab Sample ID: 280-120962-7

Matrix: Water Lab File ID: LSMP4127.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 16:10

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 17:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.56
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.3
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.0
75-01-4	Vinyl chloride	2.0	U M	5.0	2.0	1.9
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		81-118
460-00-4	4-Bromofluorobenzene (Surr)	110		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	105		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4127.D
Lims ID: 280-120962-B-7
Client ID: 6MW2610
Sample Type: Client
Inject. Date: 19-Mar-2019 17:02:30 ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-017
Misc. Info.: 280-120962-b-7
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:39:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.164				ND	
3 Chloromethane	50		3.513				ND	
4 Vinyl chloride	62		3.681				ND	U
5 Bromomethane	94		4.282				ND	U
6 Chloroethane	64		4.491				ND	
7 Trichlorofluoromethane	101		4.742				ND	
9 1,1-Dichloroethene	96		5.552				ND	
10 Carbon disulfide	76		5.594				ND	
17 Methylene Chloride	84		6.349				ND	
18 Acetone	43	6.418	6.404	0.014	99	3188	4.68	
19 trans-1,2-Dichloroethene	96		6.544				ND	
22 Methyl tert-butyl ether	73		6.656				ND	
28 1,1-Dichloroethane	63		7.256				ND	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	77	5438	0.9389	
33 2,2-Dichloropropane	77		7.941				ND	
35 Chlorobromomethane	128		8.038				ND	
36 Chloroform	83		8.094				ND	
37 Carbon tetrachloride	117		8.248				ND	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	200139	50.5	
40 1,1,1-Trichloroethane	97		8.318				ND	
43 2-Butanone (MEK)	43	8.402	8.388	0.014	97	19532	19.1	
42 1,1-Dichloropropene	75		8.429				ND	
44 Benzene	78		8.681				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	98	261164	50.6	
49 1,2-Dichloroethane	62		8.876				ND	U
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1033317	50.0	
53 Trichloroethene	95		9.212				ND	
55 Dibromomethane	93		9.617				ND	
56 1,2-Dichloropropane	63		9.714				ND	
57 Dichlorobromomethane	83		9.742				ND	
61 cis-1,3-Dichloropropene	75		10.315				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1040503	52.5	
63 Toluene	92		10.524				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.832				ND	
67 trans-1,3-Dichloropropene	75		10.888				ND	
65 Tetrachloroethene	164		10.888				ND	
68 1,1,2-Trichloroethane	83		11.041				ND	
70 Chlorodibromomethane	129		11.223				ND	
71 1,3-Dichloropropane	76		11.307				ND	
72 Ethylene Dibromide	107		11.474				ND	
74 2-Hexanone	43		11.572				ND	
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	91	638156	50.0	
78 Ethylbenzene	91		11.907				ND	
77 Chlorobenzene	112		11.921				ND	
79 1,1,1,2-Tetrachloroethane	131		11.963				ND	
80 m-Xylene & p-Xylene	106		12.033				ND	
82 o-Xylene	106		12.438				ND	
83 Styrene	104		12.480				ND	
84 Bromoform	173		12.550				ND	
85 Isopropylbenzene	105		12.703				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.010	0.000	86	361884	55.0	
88 N-Propylbenzene	91		13.094				ND	
87 Bromobenzene	156		13.136				ND	
89 1,1,2,2-Tetrachloroethane	83		13.164				ND	
91 1,3,5-Trimethylbenzene	105		13.262				ND	
90 2-Chlorotoluene	91		13.276				ND	
92 1,2,3-Trichloropropane	110		13.318				ND	
95 4-Chlorotoluene	91		13.429				ND	
96 tert-Butylbenzene	119		13.583				ND	
97 1,2,4-Trimethylbenzene	105		13.639				ND	
98 sec-Butylbenzene	105		13.751				ND	
99 4-Isopropyltoluene	119		13.862				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	298679	50.0	
103 n-Butylbenzene	134		14.281				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.301				ND	
110 Naphthalene	128		16.320				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.516				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

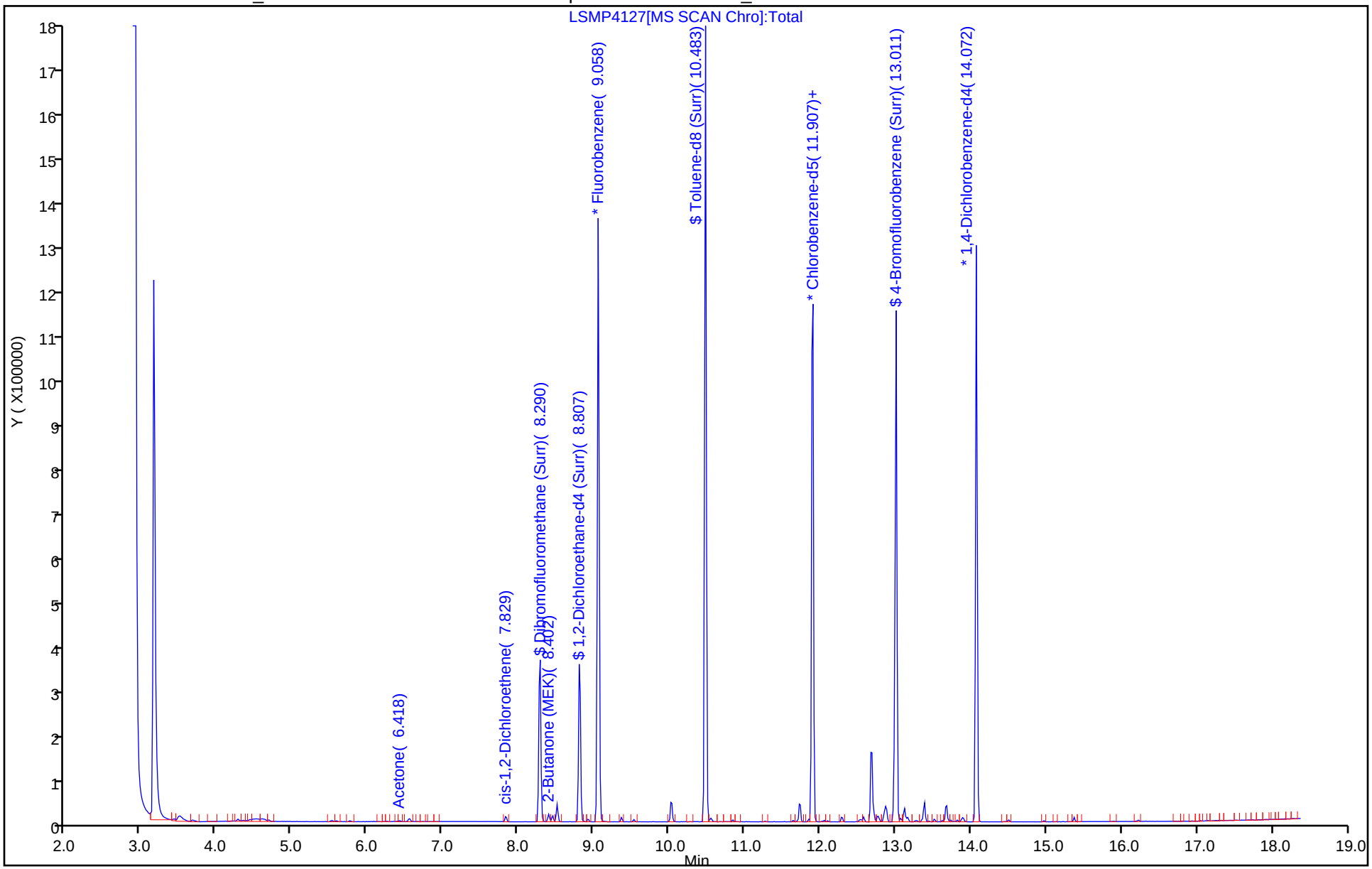
8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:08 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4127.D

Injection Date:	19-Mar-2019 17:02:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	280-120962-B-7	Lab Sample ID:	160-120962-7	Worklist Smp#:	17
Client ID:	6MW2610				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4127.D
Lims ID: 280-120962-B-7
Client ID: 6MW2610
Sample Type: Client
Inject. Date: 19-Mar-2019 17:02:30 ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-017
Misc. Info.: 280-120962-b-7
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:39:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.5	100.97
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.6	101.20
$ 62 Toluene-d8 (Surr)	50.0	52.5	105.07
$ 86 4-Bromofluorobenzene (Surr)	50.0	55.0	110.09

Report Date: 20-Mar-2019 15:42:09 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4127.D

Injection Date: 19-Mar-2019 17:02:30 Instrument ID: VMSL

Lims ID: 280-120962-B-7 Lab Sample ID: 160-120962-7

Client ID: 6MW2610

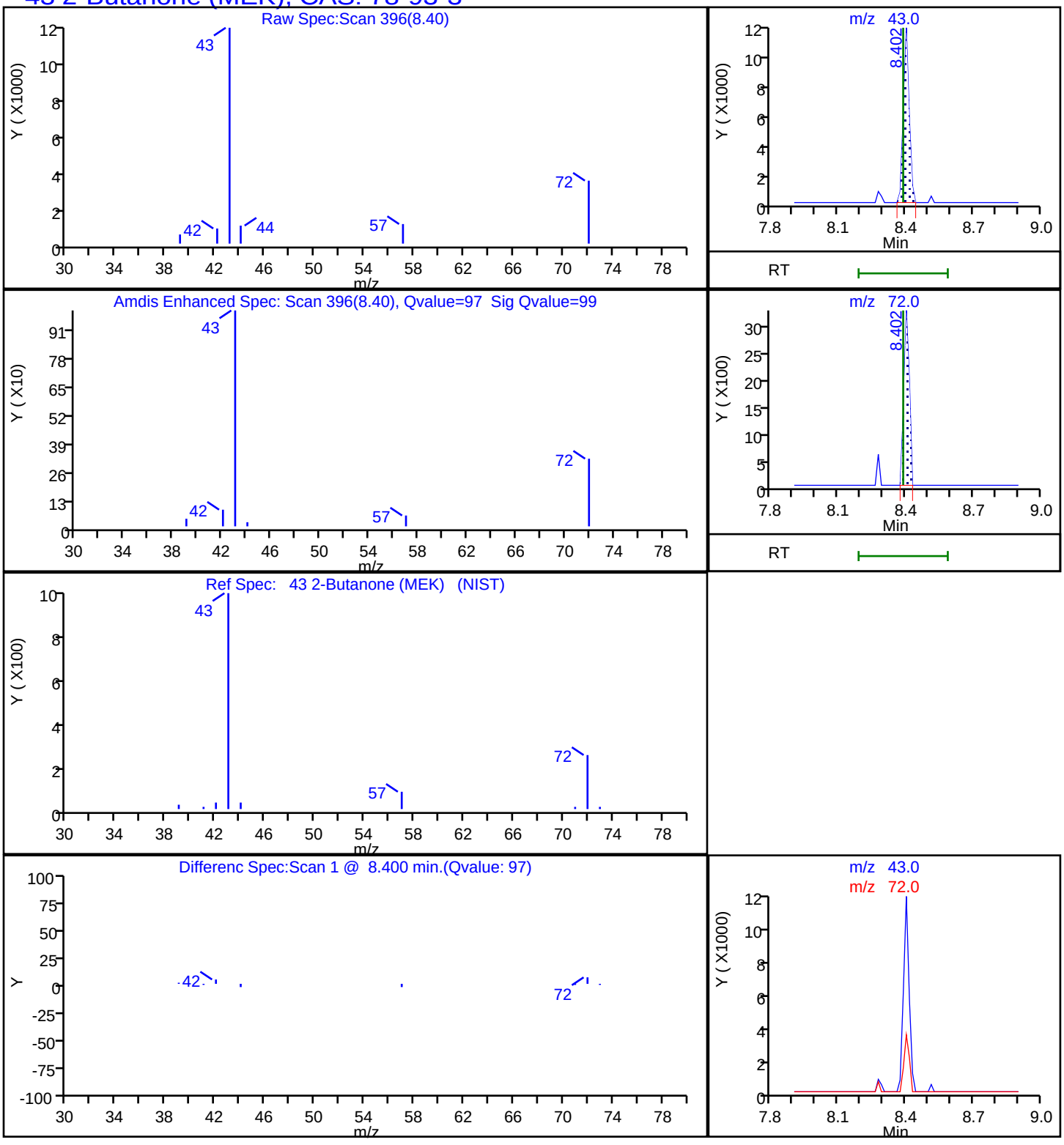
Operator ID: KA ALS Bottle#: 15 Worklist Smp#: 17

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD

Column: Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3



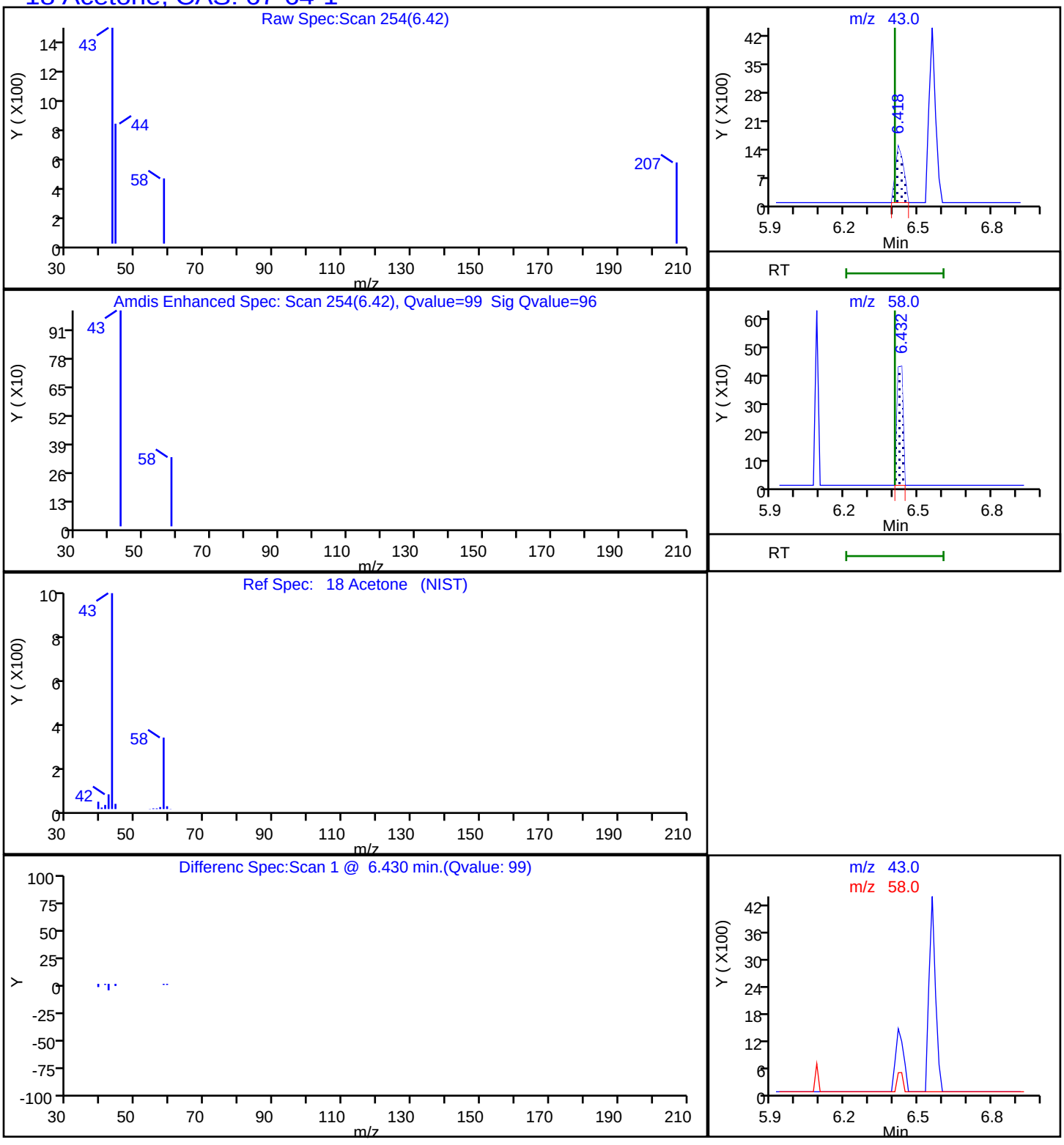
Report Date: 20-Mar-2019 15:42:08 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4127.D

Injection Date:	19-Mar-2019 17:02:30	Instrument ID:	VMSL
Lims ID:	280-120962-B-7	Lab Sample ID:	160-120962-7
Client ID:	6MW2610		
Operator ID:	KA	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

18 Acetone, CAS: 67-64-1



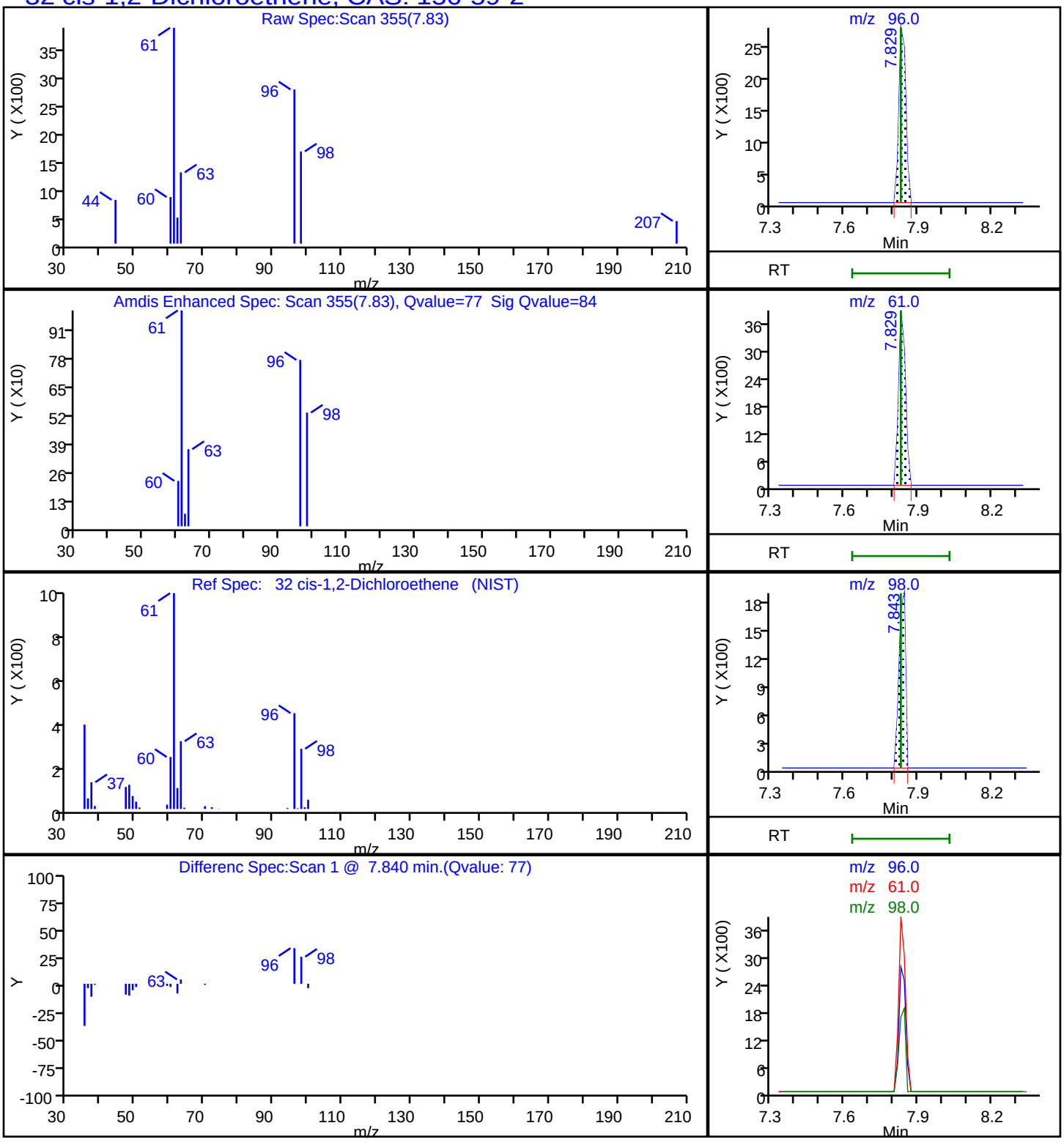
Report Date: 20-Mar-2019 15:42:09 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4127.D

Injection Date:	19-Mar-2019 17:02:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-7	Lab Sample ID:	160-120962-7		
Client ID:	6MW2610				
Operator ID:	KA	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

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



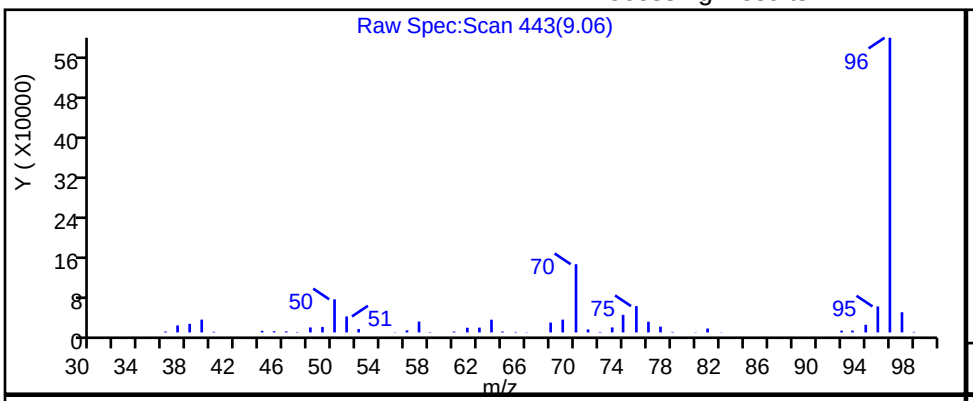
User Disabled Compound Report

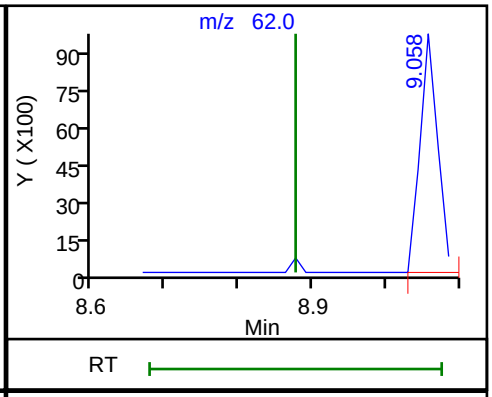
TestAmerica St. Louis

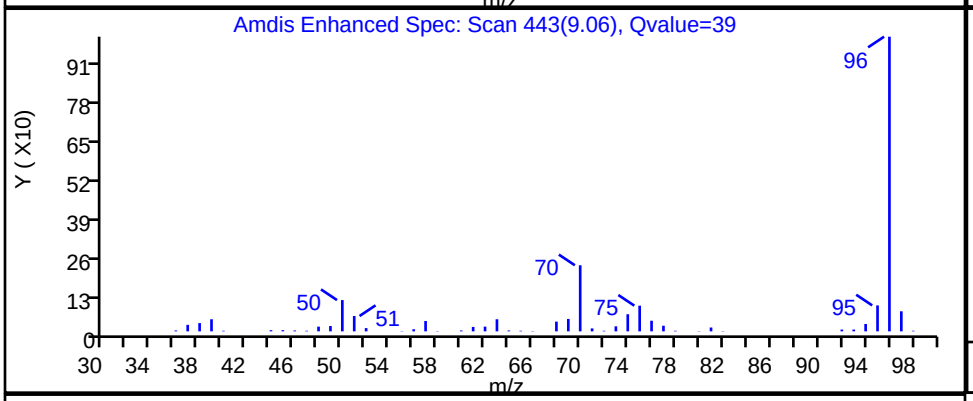
Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4127.D		
Injection Date:	19-Mar-2019 17:02:30	Instrument ID:	VMSL
Lims ID:	280-120962-B-7	Lab Sample ID:	160-120962-7
Client ID:	6MW2610		
Operator ID:	KA	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

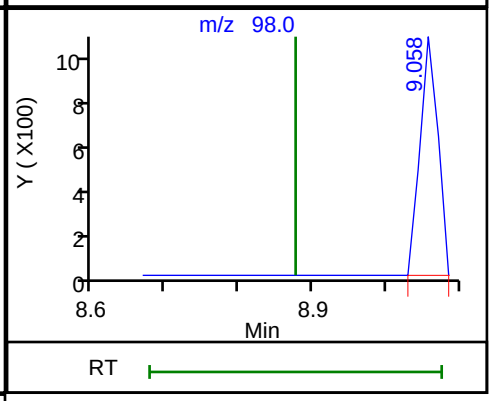
49 1,2-Dichloroethane, CAS: 107-06-2

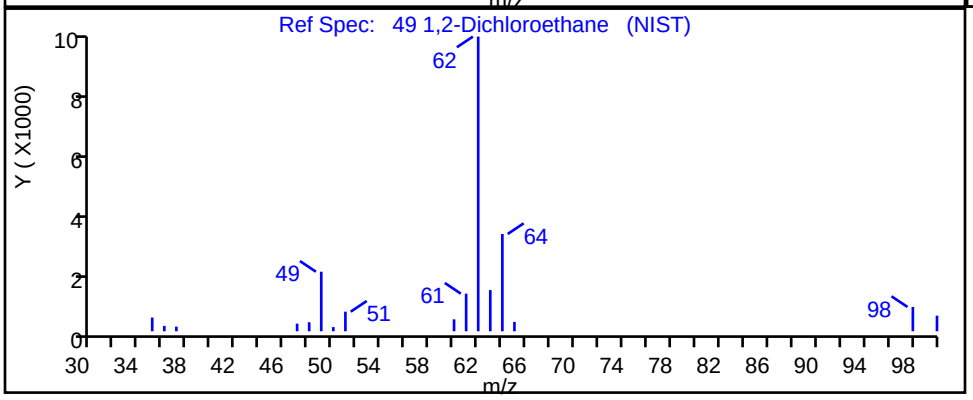
Processing Results











RT	Mass	Response	Amount
9.06	62.00	16483	2.678790
9.06	98.00	1861	

Reviewer: aguk, 20-Mar-2019 15:39:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

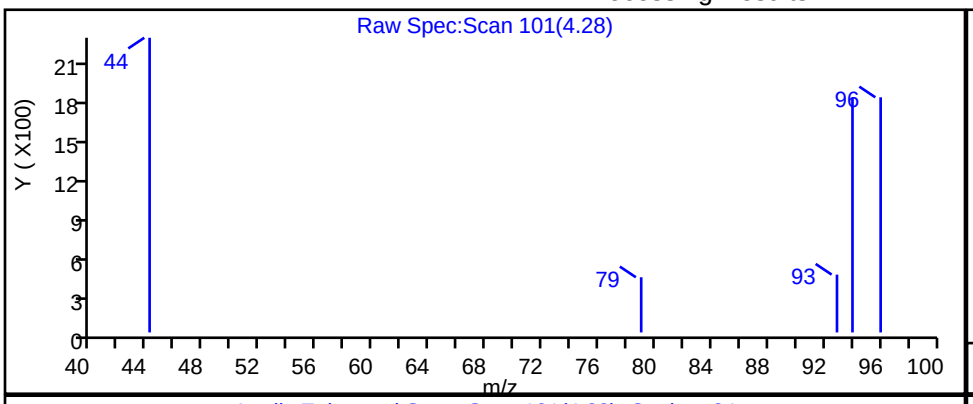
User Disabled Compound Report

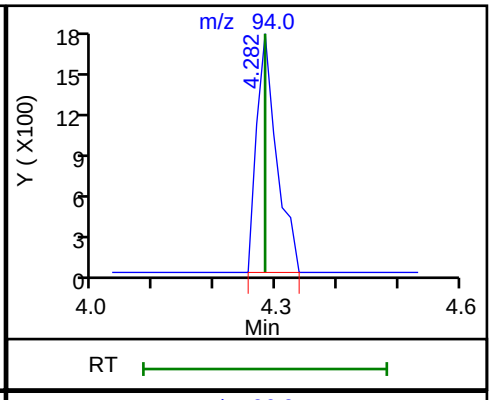
TestAmerica St. Louis

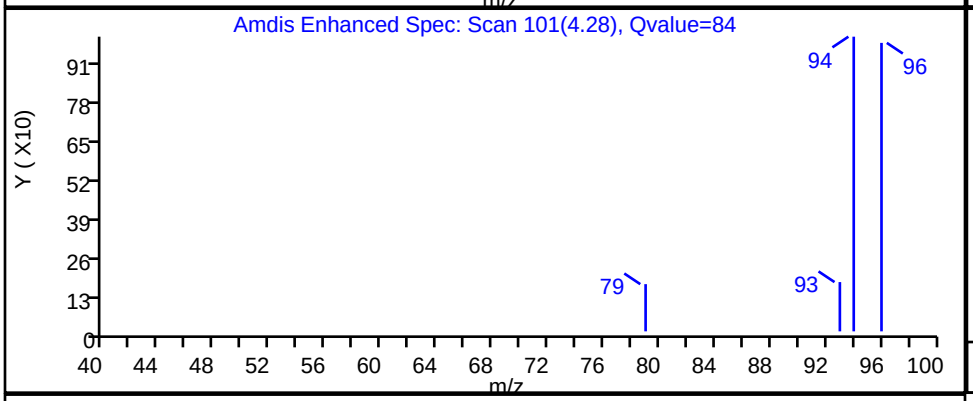
Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4127.D				
Injection Date:	19-Mar-2019 17:02:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-7	Lab Sample ID:	160-120962-7		
Client ID:	6MW2610				
Operator ID:	KA	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

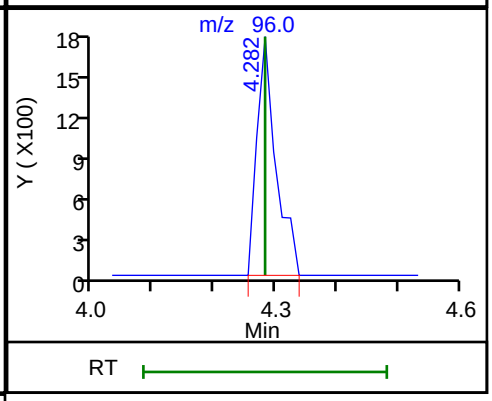
5 Bromomethane, CAS: 74-83-9

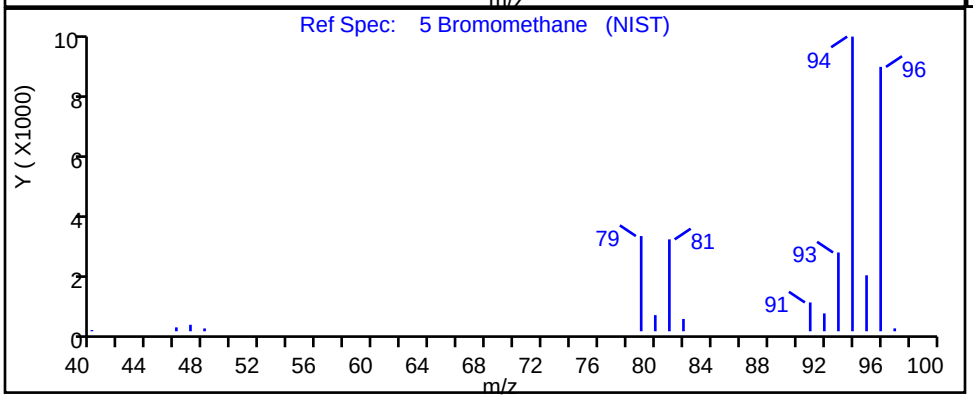
Processing Results











RT	Mass	Response	Amount
4.28	94.00	4003	0.974042
4.28	96.00	3818	

Reviewer: aguk, 20-Mar-2019 15:39:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

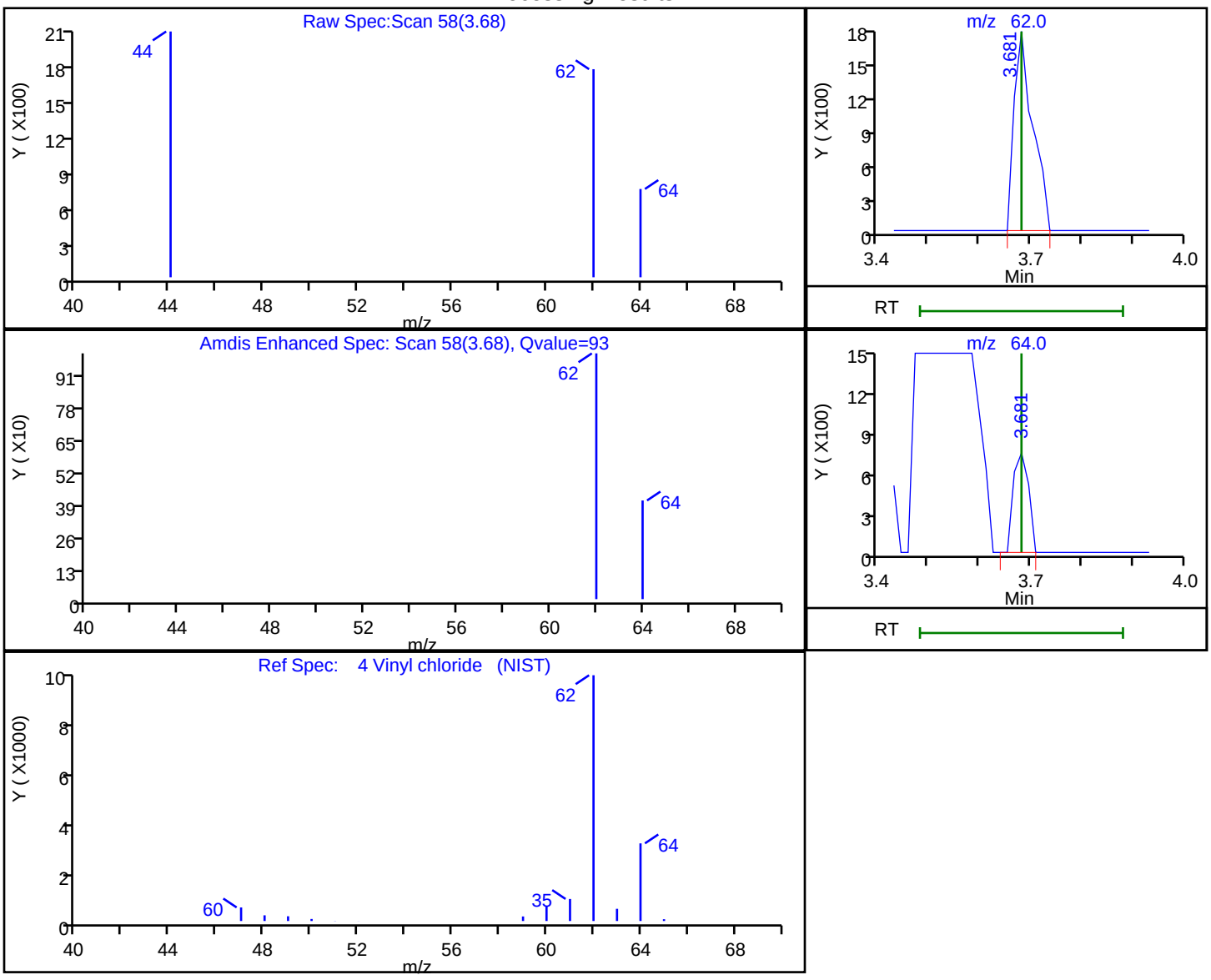
User Disabled Compound Report

TestAmerica St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4127.D				
Injection Date:	19-Mar-2019 17:02:30	Instrument ID:	VMSL		
Lims ID:	280-120962-B-7	Lab Sample ID:	160-120962-7		
Client ID:	6MW2610				
Operator ID:	KA	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

4 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
3.68	62.00	4379	0.576406
3.68	64.00	1523	

Reviewer: aguk, 20-Mar-2019 15:39:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: TB11 Lab Sample ID: 280-120962-8

Matrix: Water Lab File ID: LSMP4128.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 16:15

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 17:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	18	J	20	5.0	1.5
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	3.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8
67-64-1	Acetone	10	U	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.74
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.46
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U M	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.74
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.65
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.50
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.57
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	2.5	U	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: TB11 Lab Sample ID: 280-120962-8

Matrix: Water Lab File ID: LSMP4128.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 16:15

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 17:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.56
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.3
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.0
75-01-4	Vinyl chloride	2.0	U	5.0	2.0	1.9
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		81-118
460-00-4	4-Bromofluorobenzene (Surr)	113		85-114
1868-53-7	Dibromofluoromethane (Surr)	102		80-119
2037-26-5	Toluene-d8 (Surr)	107		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4128.D
Lims ID: 280-120962-A-8
Client ID: TB11
Sample Type: Client
Inject. Date: 19-Mar-2019 17:27:30 ALS Bottle#: 16 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-018
Misc. Info.: 280-120962-a-8
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:40:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.164				ND	
3 Chloromethane	50		3.513				ND	
4 Vinyl chloride	62		3.681				ND	
5 Bromomethane	94		4.282				ND	U
6 Chloroethane	64		4.491				ND	
7 Trichlorofluoromethane	101		4.742				ND	
9 1,1-Dichloroethene	96		5.552				ND	
10 Carbon disulfide	76		5.594				ND	
17 Methylene Chloride	84		6.349				ND	
18 Acetone	43		6.404				ND	
19 trans-1,2-Dichloroethene	96		6.544				ND	
22 Methyl tert-butyl ether	73		6.656				ND	
28 1,1-Dichloroethane	63		7.256				ND	
32 cis-1,2-Dichloroethene	96		7.829				ND	
33 2,2-Dichloropropane	77		7.941				ND	
35 Chlorobromomethane	128		8.038				ND	
36 Chloroform	83		8.094				ND	
37 Carbon tetrachloride	117		8.248				ND	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	200845	51.0	
40 1,1,1-Trichloroethane	97		8.318				ND	
43 2-Butanone (MEK)	43	8.402	8.388	0.014	98	17792	17.5	
42 1,1-Dichloropropene	75		8.429				ND	
44 Benzene	78		8.681				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	98	264147	51.5	
49 1,2-Dichloroethane	62		8.876				ND	U
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1026540	50.0	
53 Trichloroethene	95		9.212				ND	
55 Dibromomethane	93		9.617				ND	
56 1,2-Dichloropropane	63		9.714				ND	
57 Dichlorobromomethane	83		9.742				ND	
61 cis-1,3-Dichloropropene	75		10.315				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1052495	53.6	
63 Toluene	92		10.524				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.832				ND	
67 trans-1,3-Dichloropropene	75		10.888				ND	
65 Tetrachloroethene	164		10.888				ND	
68 1,1,2-Trichloroethane	83		11.041				ND	
70 Chlorodibromomethane	129		11.223				ND	
71 1,3-Dichloropropane	76		11.307				ND	
72 Ethylene Dibromide	107		11.474				ND	
74 2-Hexanone	43		11.572				ND	
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	91	632278	50.0	
78 Ethylbenzene	91		11.907				ND	
77 Chlorobenzene	112		11.921				ND	
79 1,1,1,2-Tetrachloroethane	131		11.963				ND	
80 m-Xylene & p-Xylene	106		12.033				ND	
82 o-Xylene	106		12.438				ND	
83 Styrene	104		12.480				ND	
84 Bromoform	173		12.550				ND	
85 Isopropylbenzene	105		12.703				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.010	0.001	87	364664	56.5	
88 N-Propylbenzene	91		13.094				ND	
87 Bromobenzene	156		13.136				ND	
89 1,1,2,2-Tetrachloroethane	83		13.164				ND	
91 1,3,5-Trimethylbenzene	105		13.262				ND	
90 2-Chlorotoluene	91		13.276				ND	
92 1,2,3-Trichloropropane	110		13.318				ND	
95 4-Chlorotoluene	91		13.429				ND	
96 tert-Butylbenzene	119		13.583				ND	
97 1,2,4-Trimethylbenzene	105		13.639				ND	
98 sec-Butylbenzene	105		13.751				ND	
99 4-Isopropyltoluene	119		13.862				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	293408	50.0	
103 n-Butylbenzene	134		14.281				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.301				ND	
110 Naphthalene	128		16.320				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.516				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

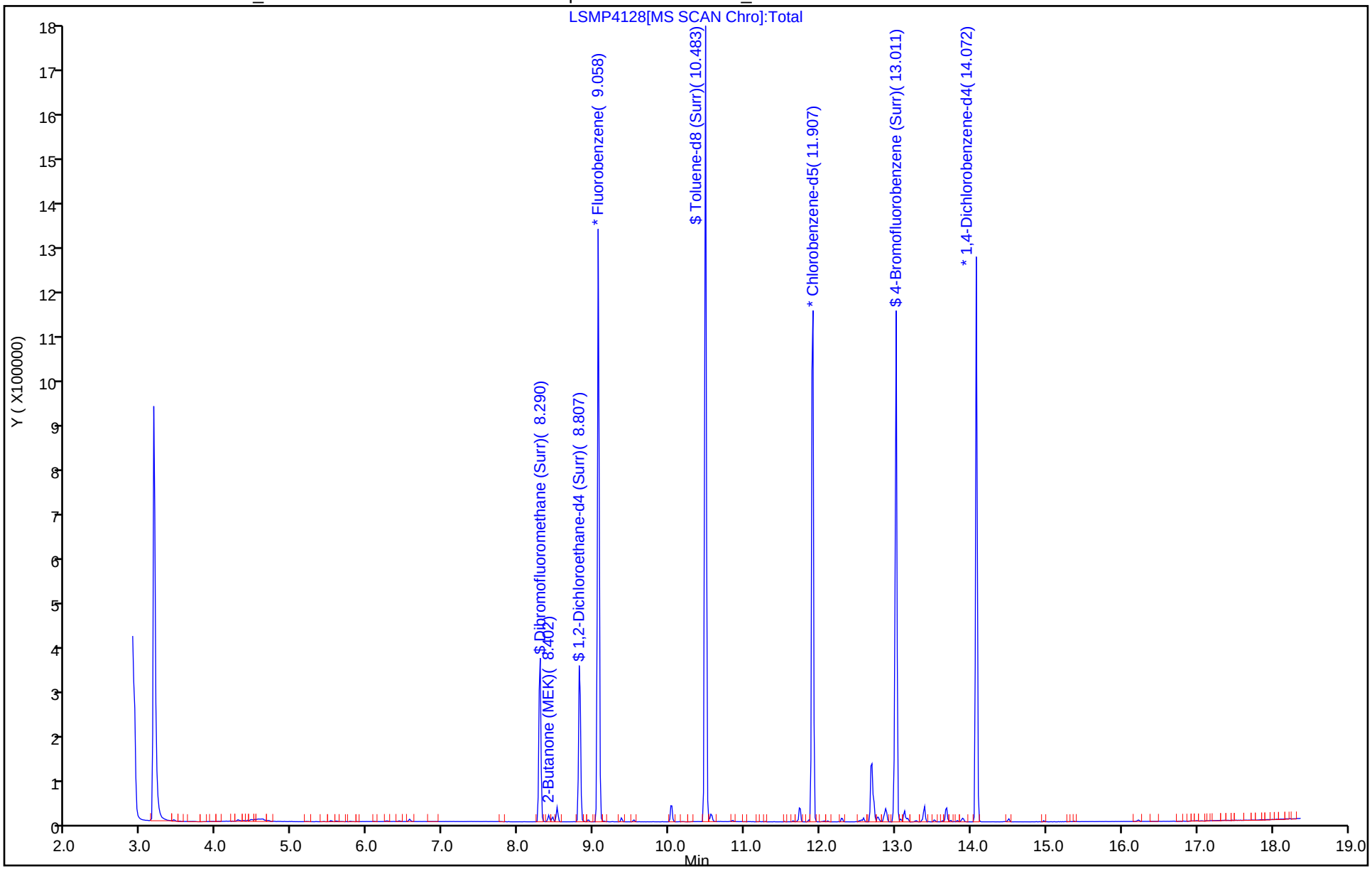
8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:10 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4128.D

Injection Date:	19-Mar-2019 17:27:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	280-120962-A-8	Lab Sample ID:	160-120962-8	Worklist Smp#:	18
Client ID:	TB11				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4128.D
Lims ID: 280-120962-A-8
Client ID: TB11
Sample Type: Client
Inject. Date: 19-Mar-2019 17:27:30 ALS Bottle#: 16 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-018
Misc. Info.: 280-120962-a-8
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:40:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	51.0	102.00
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.5	103.03
$ 62 Toluene-d8 (Surr)	50.0	53.6	107.27
$ 86 4-Bromofluorobenzene (Surr)	50.0	56.5	112.92

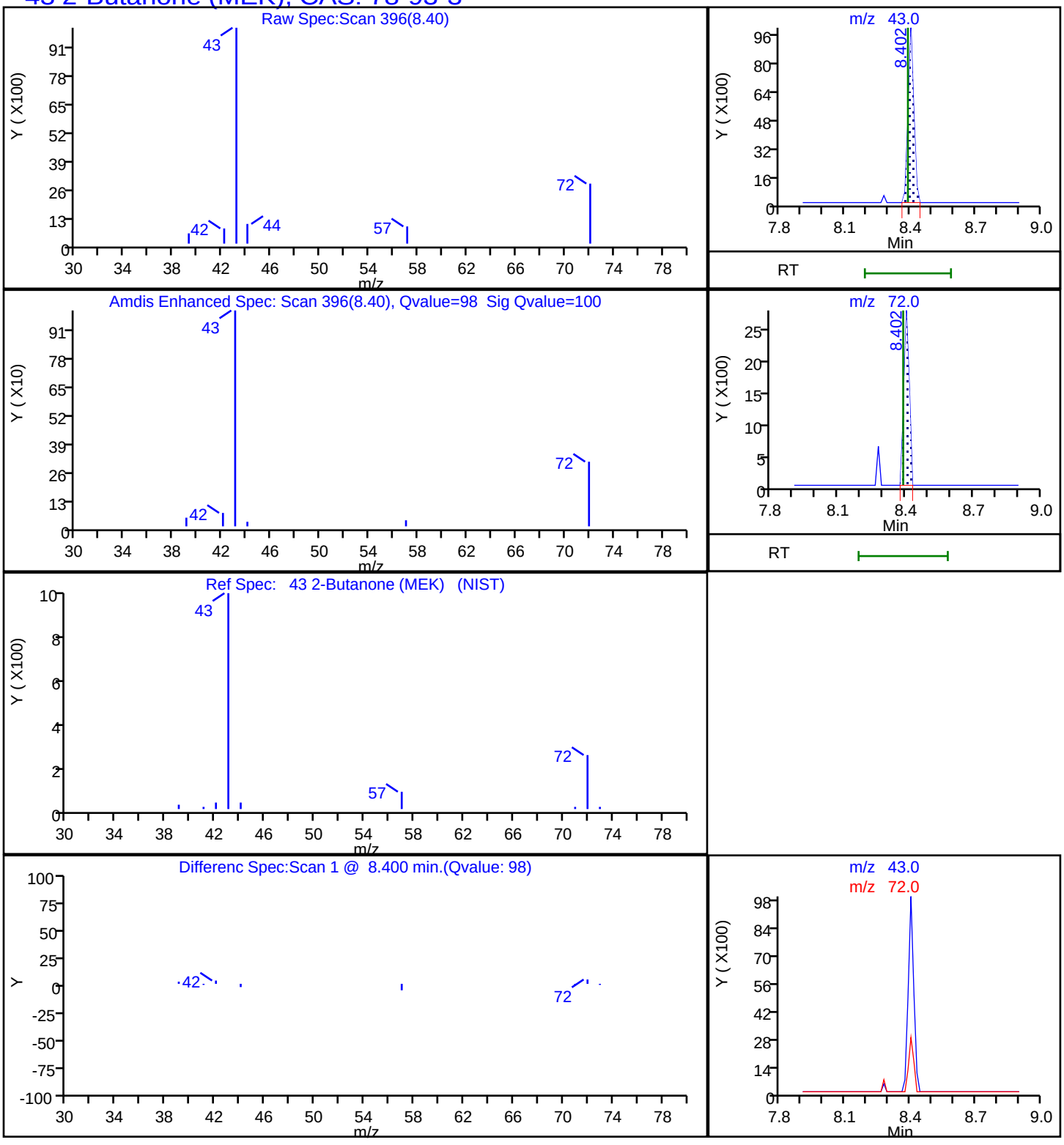
Report Date: 20-Mar-2019 15:42:10 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4128.D

Injection Date:	19-Mar-2019 17:27:30	Instrument ID:	VMSL		
Lims ID:	280-120962-A-8	Lab Sample ID:	160-120962-8		
Client ID:	TB11				
Operator ID:	KA	ALS Bottle#:	16	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3



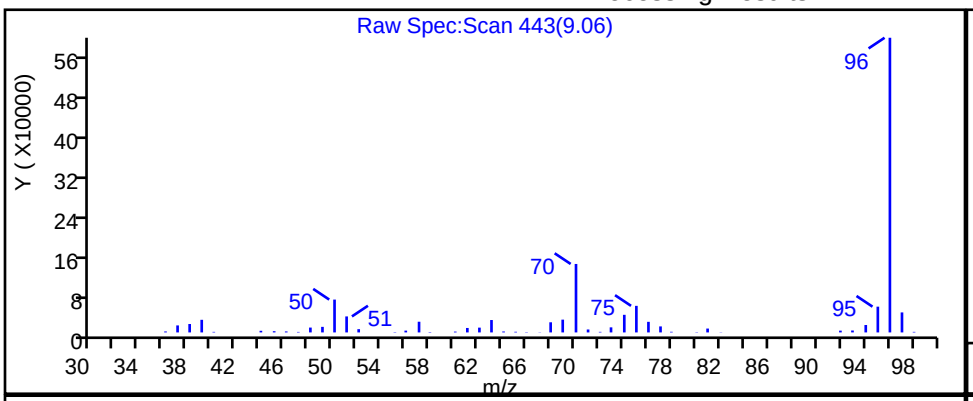
User Disabled Compound Report

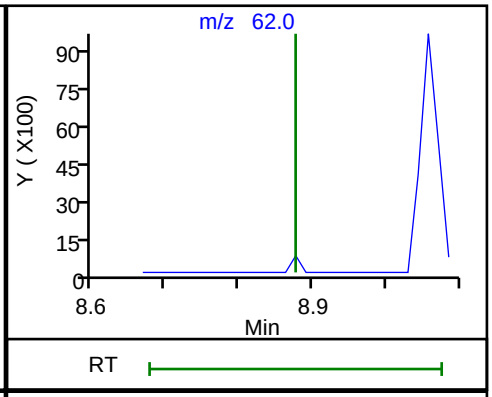
TestAmerica St. Louis

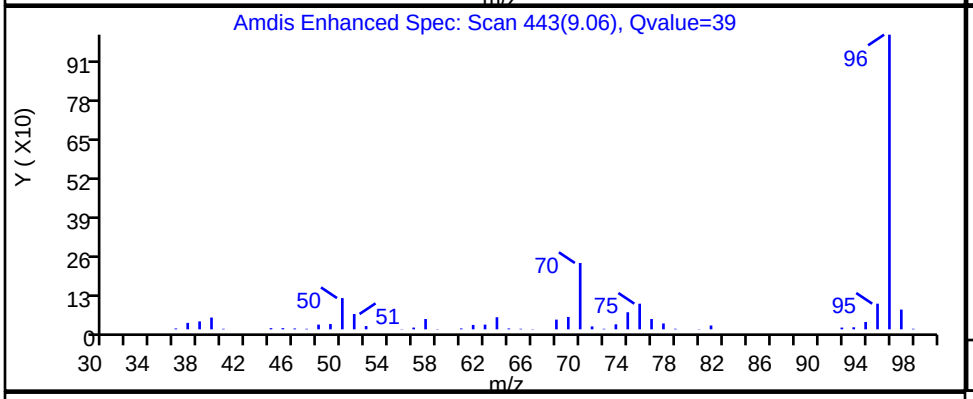
Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4128.D		
Injection Date:	19-Mar-2019 17:27:30	Instrument ID:	VMSL
Lims ID:	280-120962-A-8	Lab Sample ID:	160-120962-8
Client ID:	TB11		
Operator ID:	KA	ALS Bottle#:	16 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

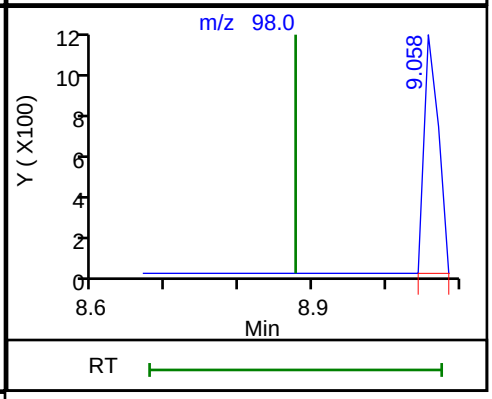
49 1,2-Dichloroethane, CAS: 107-06-2

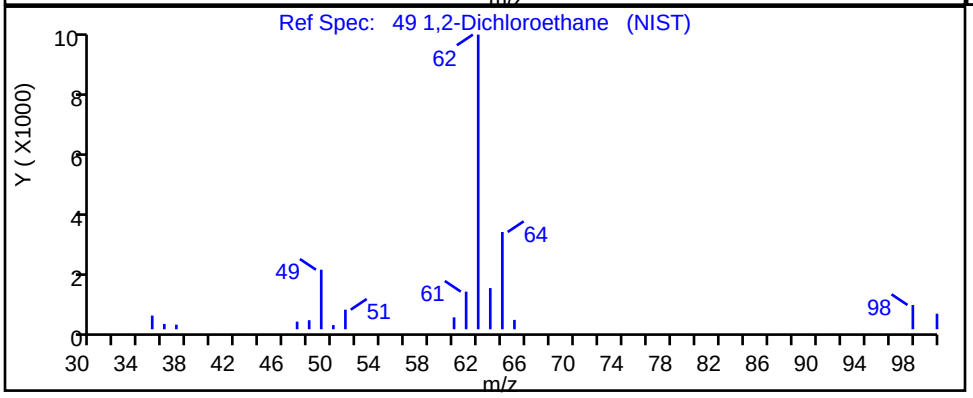
Processing Results











RT	Mass	Response	Amount
9.06	62.00	16319	2.669646
9.06	98.00	1540	

Reviewer: aguk, 20-Mar-2019 15:40:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

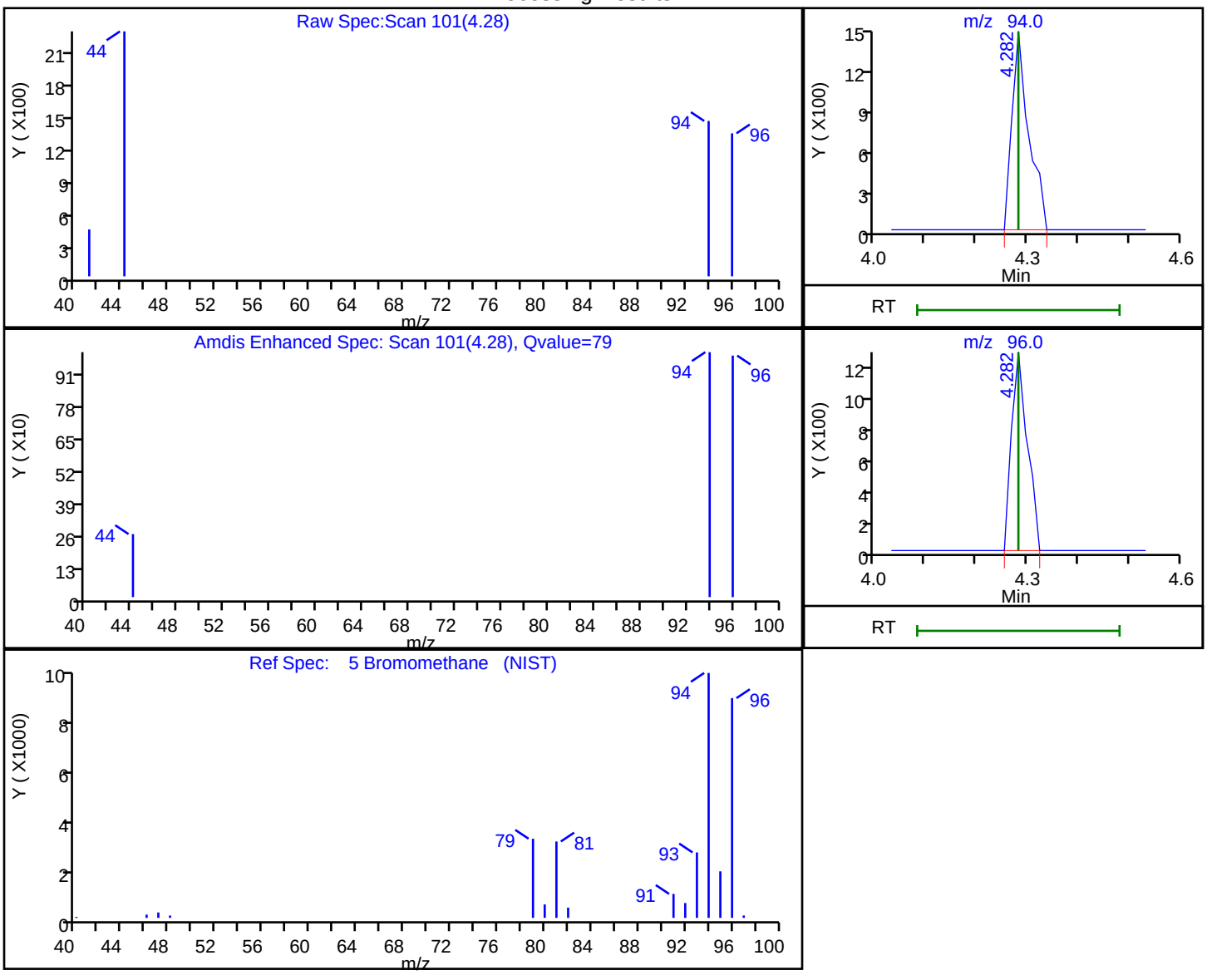
User Disabled Compound Report

TestAmerica St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4128.D				
Injection Date:	19-Mar-2019 17:27:30	Instrument ID:	VMSL		
Lims ID:	280-120962-A-8	Lab Sample ID:	160-120962-8		
Client ID:	TB11				
Operator ID:	KA	ALS Bottle#:	16	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

5 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
4.28	94.00	3242	0.794078
4.28	96.00	2801	

Reviewer: aguk, 20-Mar-2019 15:40:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: FB07 Lab Sample ID: 280-120962-9

Matrix: Water Lab File ID: LSMP4129.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 16:20

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 17:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	21		20	5.0	1.5
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U M	20	5.0	3.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8
67-64-1	Acetone	5.0	J	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.74
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.46
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U M	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.74
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.65
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.50
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.57
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	2.5	U	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: FB07 Lab Sample ID: 280-120962-9

Matrix: Water Lab File ID: LSMP4129.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 16:20

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 17:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.56
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.3
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.0
75-01-4	Vinyl chloride	2.0	U	5.0	2.0	1.9
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		81-118
460-00-4	4-Bromofluorobenzene (Surr)	111		85-114
1868-53-7	Dibromofluoromethane (Surr)	99		80-119
2037-26-5	Toluene-d8 (Surr)	104		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4129.D
Lims ID: 280-120962-A-9
Client ID: FB07
Sample Type: Client
Inject. Date: 19-Mar-2019 17:52:30 ALS Bottle#: 17 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-019
Misc. Info.: 280-120962-a-9
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:41:15

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	1 Dichlorodifluoromethane	85		3.164				ND	
	3 Chloromethane	50		3.513				ND	
	4 Vinyl chloride	62		3.681				ND	
	5 Bromomethane	94		4.282				ND	U
	6 Chloroethane	64		4.491				ND	
	7 Trichlorofluoromethane	101		4.742				ND	
	9 1,1-Dichloroethene	96		5.552				ND	
	10 Carbon disulfide	76		5.594				ND	
	17 Methylene Chloride	84		6.349				ND	
	18 Acetone	43	6.419	6.404	0.014	98	3422	5.02	
	19 trans-1,2-Dichloroethene	96		6.544				ND	
	22 Methyl tert-butyl ether	73		6.656				ND	
	28 1,1-Dichloroethane	63		7.256				ND	
	32 cis-1,2-Dichloroethene	96		7.829				ND	
	33 2,2-Dichloropropane	77		7.941				ND	
	35 Chlorobromomethane	128		8.038				ND	
	36 Chloroform	83		8.094				ND	
	37 Carbon tetrachloride	117		8.248				ND	
$	41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	196195	49.5	
	40 1,1,1-Trichloroethane	97		8.318				ND	
	43 2-Butanone (MEK)	43	8.402	8.388	0.014	98	21440	21.0	
	42 1,1-Dichloropropene	75		8.429				ND	
	44 Benzene	78		8.681				ND	
$	47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	99	254807	49.4	
	49 1,2-Dichloroethane	62		8.876				ND	U
*	51 Fluorobenzene	96	9.058	9.058	0.000	98	1033588	50.0	
	53 Trichloroethene	95		9.212				ND	
	55 Dibromomethane	93		9.617				ND	
	56 1,2-Dichloropropane	63		9.714				ND	
	57 Dichlorobromomethane	83		9.742				ND	
	61 cis-1,3-Dichloropropene	75		10.315				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1022424	51.9	
63 Toluene	92		10.524				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.832				ND	
67 trans-1,3-Dichloropropene	75		10.888				ND	
65 Tetrachloroethene	164		10.888				ND	
68 1,1,2-Trichloroethane	83		11.041				ND	
70 Chlorodibromomethane	129		11.223				ND	
71 1,3-Dichloropropane	76		11.307				ND	
72 Ethylene Dibromide	107		11.474				ND	
74 2-Hexanone	43		11.572				ND	U
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	91	634547	50.0	
78 Ethylbenzene	91		11.907				ND	
77 Chlorobenzene	112		11.921				ND	
79 1,1,1,2-Tetrachloroethane	131		11.963				ND	
80 m-Xylene & p-Xylene	106		12.033				ND	
82 o-Xylene	106		12.438				ND	
83 Styrene	104		12.480				ND	
84 Bromoform	173		12.550				ND	
85 Isopropylbenzene	105		12.703				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.010	0.001	86	354068	55.6	
88 N-Propylbenzene	91		13.094				ND	
87 Bromobenzene	156		13.136				ND	
89 1,1,2,2-Tetrachloroethane	83		13.164				ND	
91 1,3,5-Trimethylbenzene	105		13.262				ND	
90 2-Chlorotoluene	91		13.276				ND	
92 1,2,3-Trichloropropane	110		13.318				ND	
95 4-Chlorotoluene	91		13.429				ND	
96 tert-Butylbenzene	119		13.583				ND	
97 1,2,4-Trimethylbenzene	105		13.639				ND	
98 sec-Butylbenzene	105		13.751				ND	
99 4-Isopropyltoluene	119		13.862				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	289251	50.0	
103 n-Butylbenzene	134		14.281				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.301				ND	
110 Naphthalene	128		16.320				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.516				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

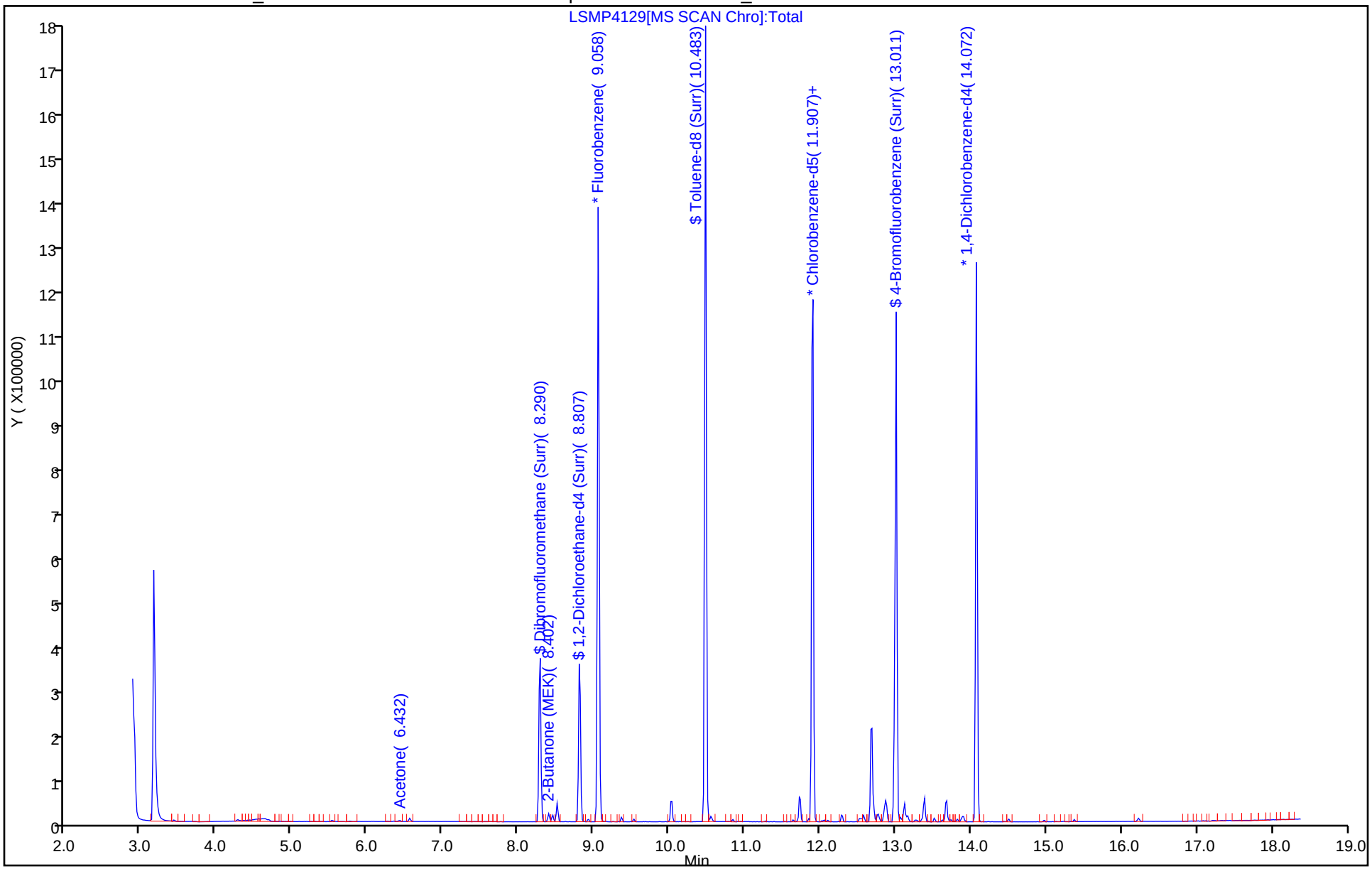
8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:11 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4129.D

Injection Date:	19-Mar-2019 17:52:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	280-120962-A-9	Lab Sample ID:	160-120962-9	Worklist Smp#:	19
Client ID:	FB07				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4129.D
Lims ID: 280-120962-A-9
Client ID: FB07
Sample Type: Client
Inject. Date: 19-Mar-2019 17:52:30 ALS Bottle#: 17 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-019
Misc. Info.: 280-120962-a-9
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:41:46 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:41:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.5	98.96
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	49.4	98.71
$ 62 Toluene-d8 (Surr)	50.0	51.9	103.83
$ 86 4-Bromofluorobenzene (Surr)	50.0	55.6	111.22

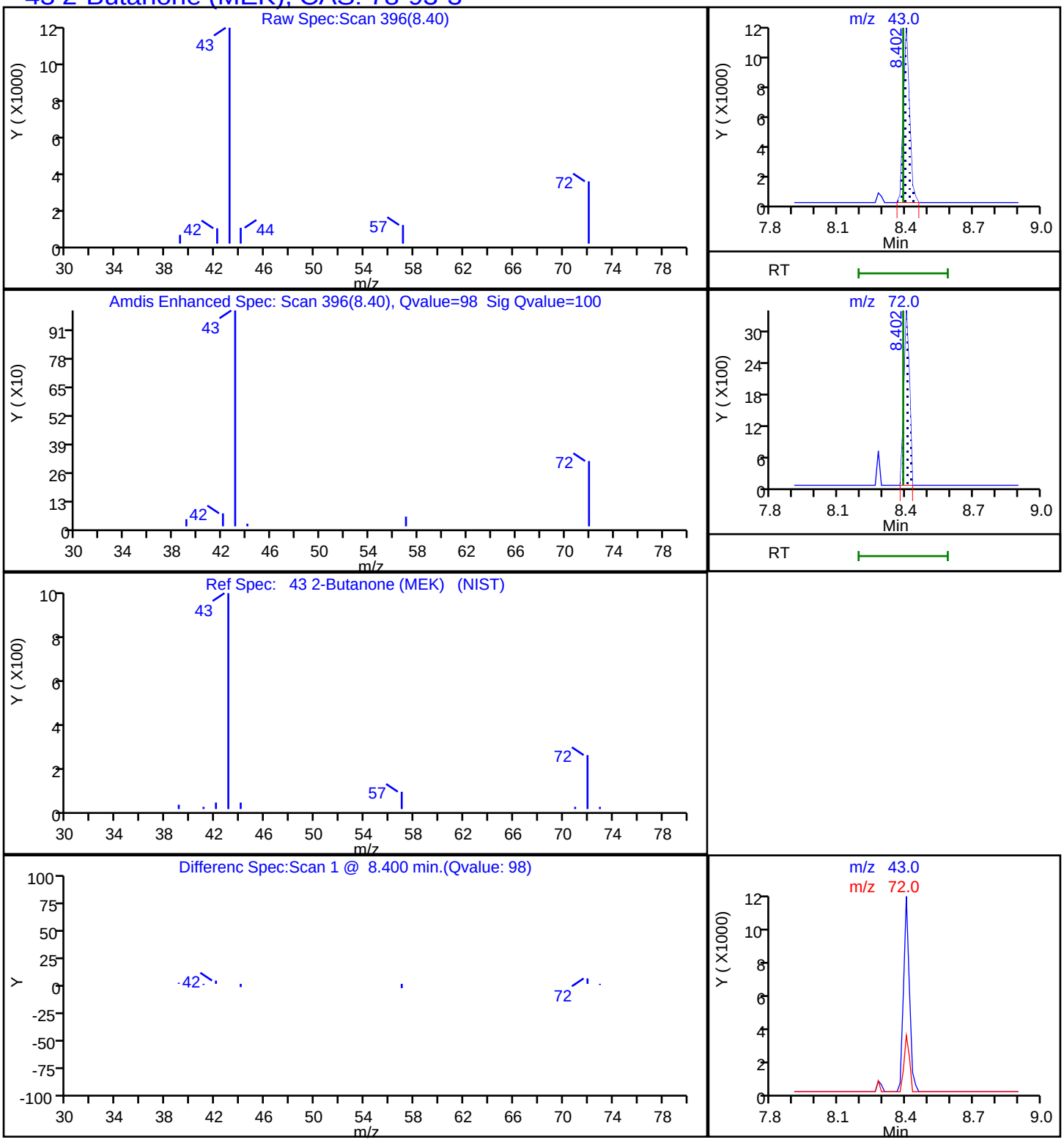
Report Date: 20-Mar-2019 15:42:11 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4129.D

Injection Date:	19-Mar-2019 17:52:30	Instrument ID:	VMSL		
Lims ID:	280-120962-A-9	Lab Sample ID:	160-120962-9		
Client ID:	FB07				
Operator ID:	KA	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3



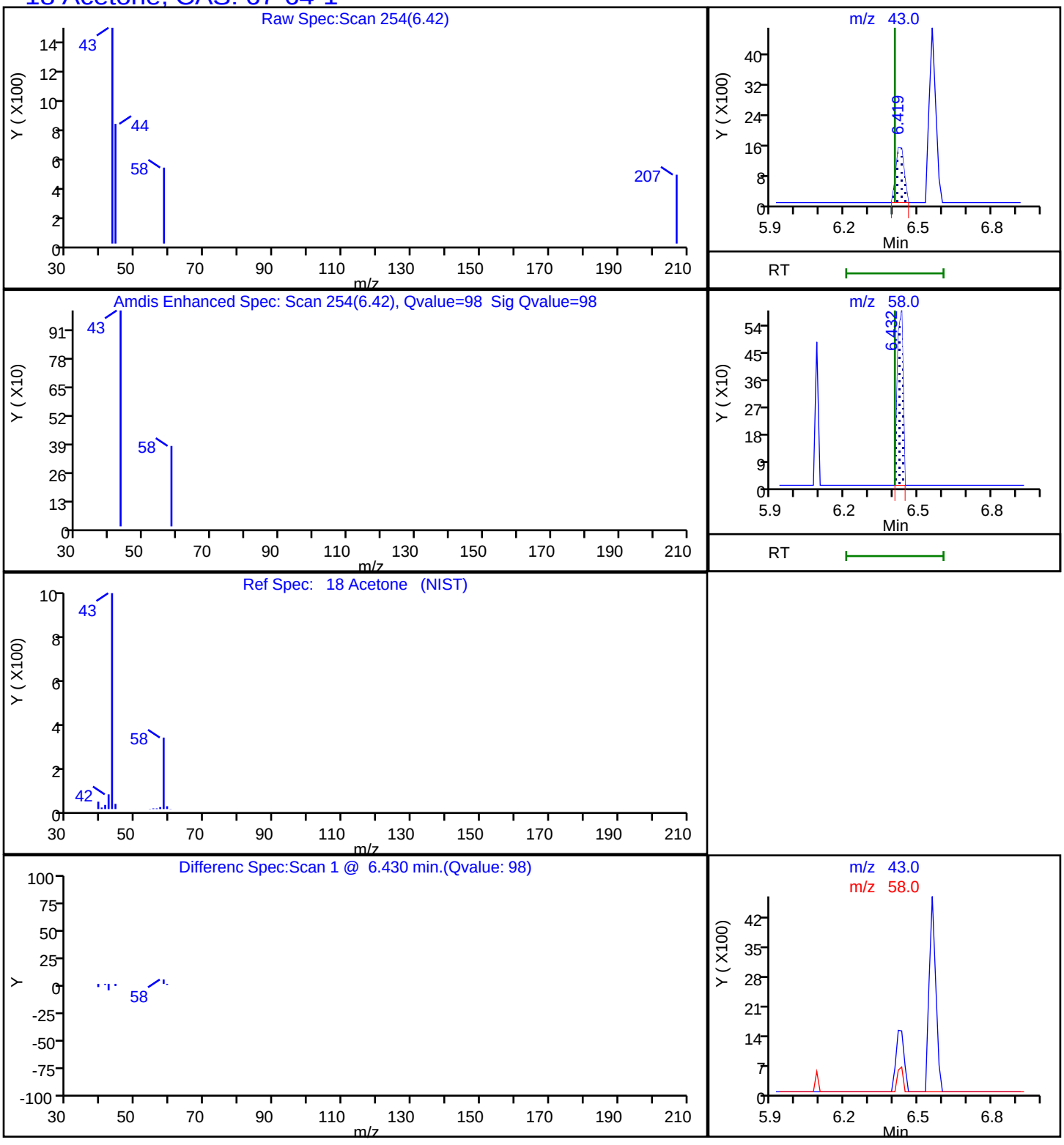
Report Date: 20-Mar-2019 15:42:11 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4129.D

Injection Date:	19-Mar-2019 17:52:30	Instrument ID:	VMSL		
Lims ID:	280-120962-A-9	Lab Sample ID:	160-120962-9		
Client ID:	FB07				
Operator ID:	KA	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



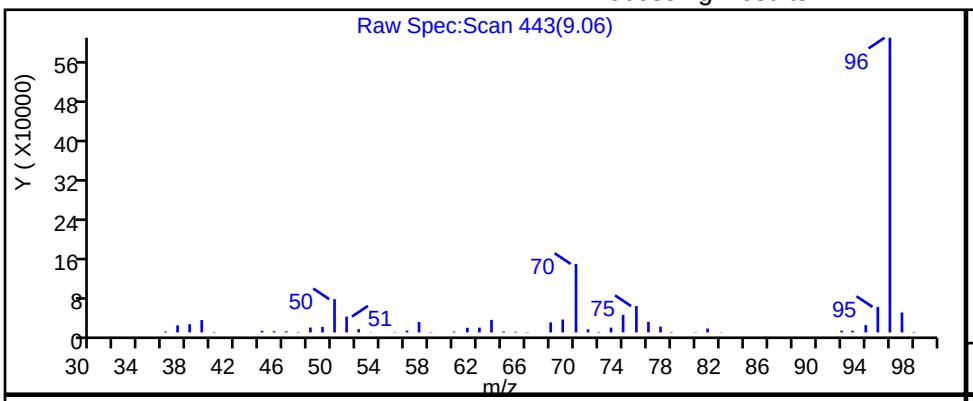
User Disabled Compound Report

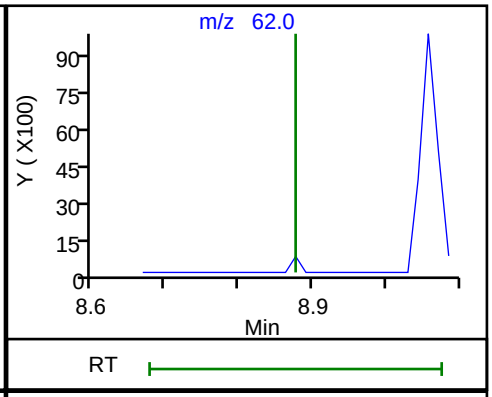
TestAmerica St. Louis

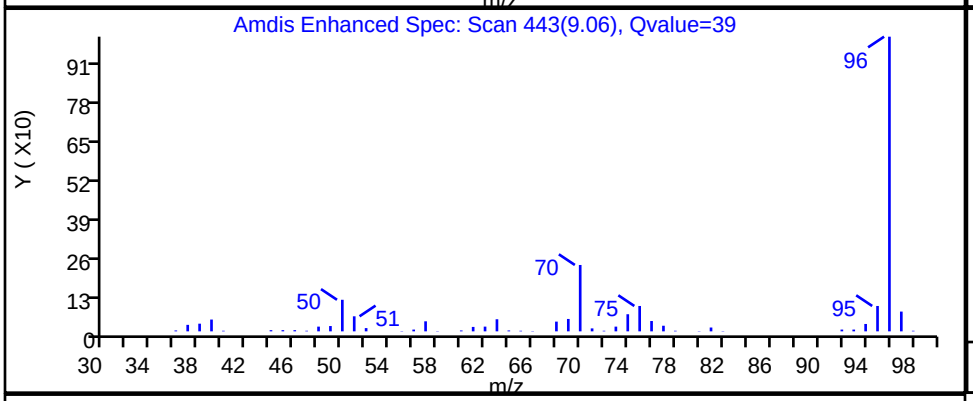
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Injection Date:	19-Mar-2019 17:52:30	Instrument ID:	VMSL		
Lims ID:	280-120962-A-9	Lab Sample ID:	160-120962-9		
Client ID:	FB07				
Operator ID:	KA	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

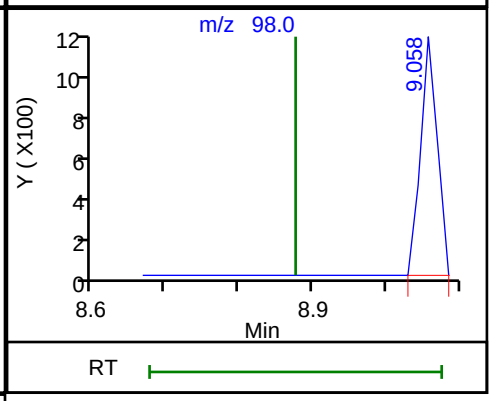
49 1,2-Dichloroethane, CAS: 107-06-2

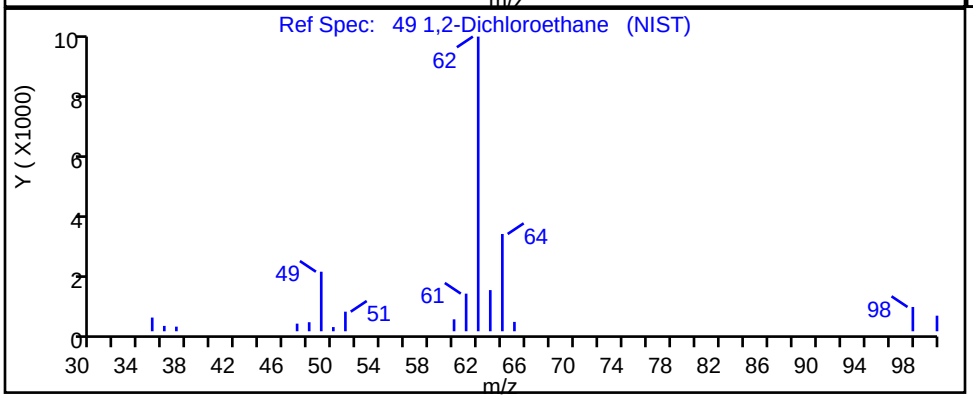
Processing Results











RT	Mass	Response	Amount
9.06	62.00	16185	2.629670
9.06	98.00	1759	

Reviewer: aguk, 20-Mar-2019 15:41:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

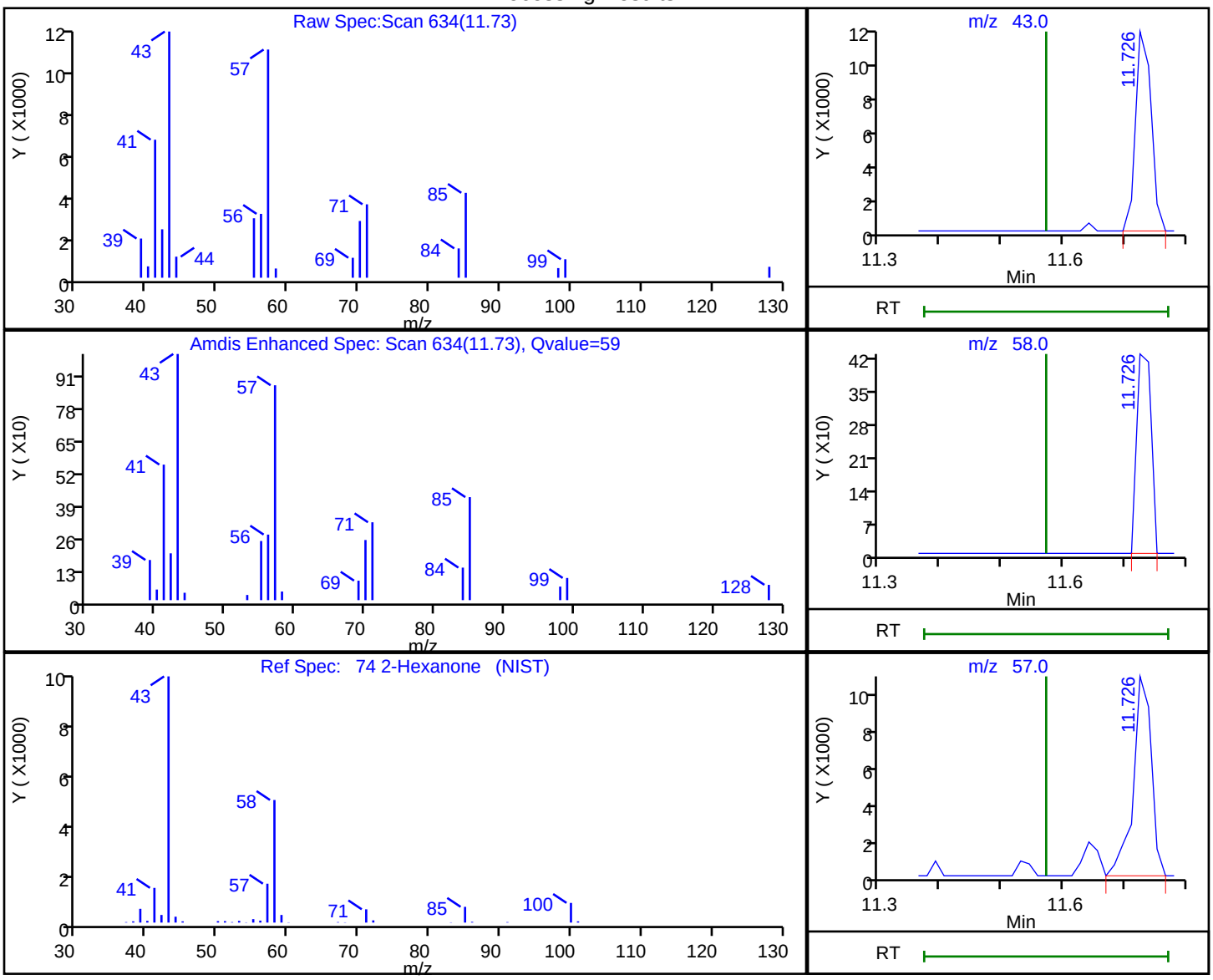
User Disabled Compound Report

TestAmerica St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4129.D				
Injection Date:	19-Mar-2019 17:52:30	Instrument ID:	VMSL		
Lims ID:	280-120962-A-9	Lab Sample ID:	160-120962-9		
Client ID:	FB07				
Operator ID:	KA	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

74 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
11.73	43.00	20058	14.913842
11.73	58.00	695	
11.73	57.00	21531	

Reviewer: aguk, 20-Mar-2019 15:41:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

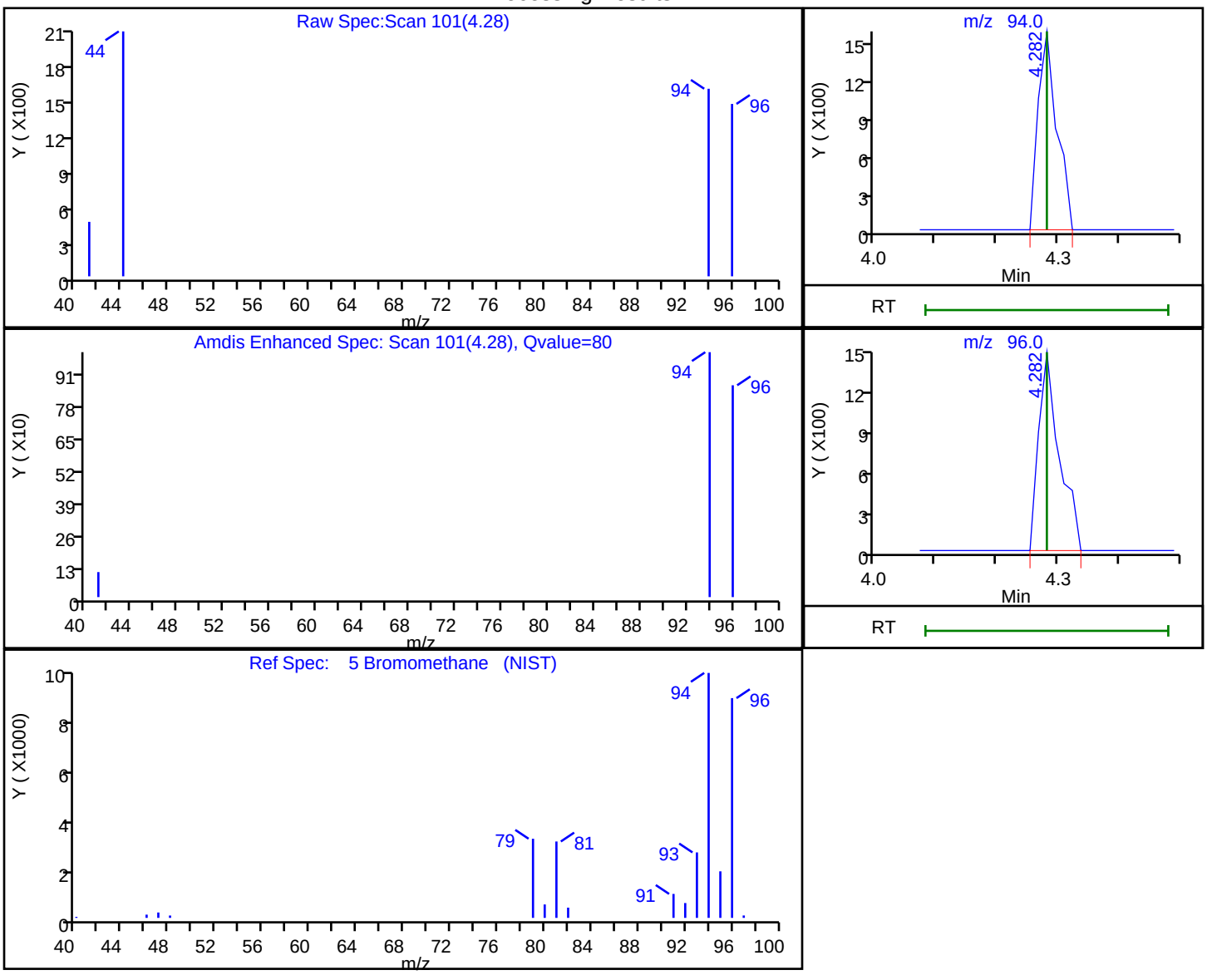
User Disabled Compound Report

TestAmerica St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4129.D				
Injection Date:	19-Mar-2019 17:52:30	Instrument ID:	VMSL		
Lims ID:	280-120962-A-9	Lab Sample ID:	160-120962-9		
Client ID:	FB07				
Operator ID:	KA	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

5 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
4.28	94.00	3306	0.804232
4.28	96.00	3343	

Reviewer: aguk, 20-Mar-2019 15:40:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-419780/3	LICL4077.D
Level 2	IC 160-419780/4	LICL4078.D
Level 3	IC 160-419780/16	LICL4090.D
Level 4	IC 160-419780/6	LICL4080.D
Level 5	IC 160-419780/7	LICL4081.D
Level 6	ICIS 160-419780/8	LICL4082.D
Level 7	IC 160-419780/9	LICL4083.D
Level 8	IC 160-419780/10	LICL4084.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 0.4387	+++++ 0.3437	0.4370 0.3474	0.4827	0.4662	Ave		0.4193			0.1000	14.2		15.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 0.1077	+++++ 0.0935	0.0903 0.0951	0.0953	0.1121	Ave		0.0990			0.0100	8.8		15.0			
Chloromethane	+++++ 0.3421	+++++ 0.3099	0.3545 0.3143	0.3777	0.3628	Ave		0.3435			0.1000	7.9		15.0			
Vinyl chloride	+++++ 0.3699	+++++ 0.3461	0.3564 0.3562	0.3929	0.3842	Ave		0.3676			0.1000	4.9		15.0			
Butadiene	+++++ 0.3338	+++++ 0.3039	0.3305 0.2957	0.3512	0.3414	Ave		0.3261			0.0100	6.7		15.0			
Bromomethane	+++++ 0.1901	+++++ 0.1706	0.2034 0.1731	0.2379	0.2180	Ave		0.1989			0.1000	13.2		15.0			
Chloroethane	+++++ 0.1888	+++++ 0.1692	0.2313 0.2119	0.2361	0.2328	Ave		0.2117			0.1000	12.9		15.0			
Trichlorofluoromethane	+++++ 0.4993	+++++ 0.4807	0.5161 0.4792	0.5491	0.5311	Ave		0.5093			0.1000	5.5		15.0			
Dichlorofluoromethane	+++++ 0.5622	+++++ 0.5594	0.5653 0.5614	0.6142	0.5914	Ave		0.5757			0.0100	3.9		15.0			
Ethyl ether	+++++ 0.1237	+++++ 0.1274	0.1019 0.1320	0.1176	0.1185	Ave		0.1202			0.0100	8.7		15.0			
Ethanol	+++++ 0.0012	+++++ 0.0013	0.0010 0.0013	0.0012	0.0012	Ave		0.0012		*	0.0100	9.7		15.0			
1,1-Dichloroethene	+++++ 0.2541	+++++ 0.2533	0.2410 0.2579	0.2548	0.2553	Ave		0.2527			0.1000	2.4		15.0			
Carbon disulfide	+++++ 0.9944	+++++ 0.9748	0.8991 0.9885	1.0094	1.0150	Ave		0.9802			0.1000	4.3		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.1998	+++++ 0.1969	0.1951 0.1937	0.2165	0.2113	Ave		0.2022			0.1000	4.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	+++++ 0.1225	+++++ 0.1634	0.0586 0.1742	0.0360	0.0655	Qua	-1.251	0.1566	0.0001223		0.0100				0.9980		0.9900
Acrolein	+++++ 0.0065	+++++ 0.0072	0.0055 0.0079	0.0059	0.0058	Ave		0.0065			0.0010	14.1		15.0			
3-Chloro-1-propene	+++++ 0.3111	+++++ 0.3128	0.2965 0.3148	0.3123	0.3119	Ave		0.3099			0.0100	2.2		15.0			
Isopropyl alcohol	+++++ 0.0072	+++++ 0.0073	0.0076 0.0079	0.0079	0.0069	Ave		0.0075		*	0.0100	5.0		15.0			
Methylene Chloride	+++++ 0.2507	+++++ 0.2515	0.2413 0.2565	0.2671	0.2574	Ave		0.2541			0.1000	3.4		15.0			
Acetone	+++++ 0.0327	+++++ 0.0341	0.0294 0.0354	0.0357	0.0304	Ave		0.0330		*	0.1000	7.9		15.0			
trans-1,2-Dichloroethene	+++++ 0.2788	+++++ 0.2853	0.2713 0.2838	0.2875	0.2833	Ave		0.2817			0.1000	2.1		15.0			
Methyl acetate	+++++ 0.0085	+++++ 0.0086	0.0064 0.0089	0.0083	0.0078	Ave		0.0081		*	0.1000	11.1		15.0			
Hexane	+++++ 0.1051	+++++ 0.1033	0.0918 0.1051	0.1025	0.1080	Ave		0.1027			0.0100	5.5		15.0			
Methyl tert-butyl ether	+++++ 0.5836	+++++ 0.6031	0.4883 0.6250	0.5778	0.5502	Ave		0.5714			0.1000	8.4		15.0			
2-Methyl-2-propanol	+++++ 0.0129	+++++ 0.0134	0.0096 0.0148	0.0125	0.0117	Ave		0.0125			0.0100	14.2		15.0			
Acetonitrile	+++++ 0.0127	+++++ 0.0129	0.0122 0.0131	0.0134	0.0127	Ave		0.0129			0.0010	3.2		15.0			
Isopropyl ether	+++++ 0.7017	+++++ 0.7233	0.5935 0.7365	0.6904	0.6899	Ave		0.6892			0.0100	7.3		15.0			
2-Chloro-1,3-butadiene	+++++ 0.4379	+++++ 0.4505	0.3637 0.4595	0.4106	0.4257	Ave		0.4247			0.0100	8.1		15.0			
1,1-Dichloroethane	+++++ 0.5236	+++++ 0.5300	0.4994 0.5429	0.5519	0.5421	Ave		0.5316			0.2000	3.5		15.0			
Acrylonitrile	+++++ 0.0397	+++++ 0.0406	0.0331 0.0412	0.0405	0.0379	Ave		0.0388			0.0100	7.8		15.0			
Tert-butyl ethyl ether	+++++ 0.6749	+++++ 0.6973	0.5563 0.7221	0.6582	0.6491	Ave		0.6597			0.0100	8.7		15.0			
Vinyl acetate	+++++ 0.3335	+++++ 0.3614	0.2940 0.3596	0.3258	0.3151	Ave		0.3315			0.0100	7.9		15.0			
cis-1,2-Dichloroethene	+++++ 0.2802	+++++ 0.2864	0.2539 0.2912	0.2863	0.2837	Ave		0.2803			0.1000	4.8		15.0			
2,2-Dichloropropane	+++++ 0.5027	+++++ 0.5187	0.4973 0.5266	0.5279	0.5186	Ave		0.5153			0.0100	2.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Cyclohexane	+++++ 0.5379	+++++ 0.5470	0.4893 0.5474	0.5371	0.5476	Ave		0.5344			0.1000	4.2		15.0			
Bromochloromethane	+++++ 0.0812	+++++ 0.0816	0.0764 0.0810	0.0854	0.0833	Ave		0.0815			0.0100	3.7		15.0			
Chloroform	+++++ 0.4909	+++++ 0.4966	0.4853 0.5080	0.5273	0.5019	Ave		0.5017			0.2000	3.0		15.0			
Ethyl acetate	+++++ 0.0156	+++++ 0.0163	0.0103 0.0172	0.0159	0.0150	Lin1	-0.060	0.0170			0.0100				0.9990		0.9900
Carbon tetrachloride	+++++ 0.3630	+++++ 0.3778	0.3417 0.3832	0.3694	0.3702	Ave		0.3676			0.1000	3.9		15.0			
Tetrahydrofuran	+++++ 0.0155	+++++ 0.0162	0.0091 0.0170	0.0144	0.0137	Lin1	-0.080	0.0169			0.0010				0.9990		0.9900
1,1,1-Trichloroethane	+++++ 0.4762	+++++ 0.4868	0.4542 0.4934	0.5052	0.4930	Ave		0.4848			0.1000	3.7		15.0			
2-Butanone (MEK)	+++++ 0.0501	+++++ 0.0533	0.0398 0.0538	0.0525	0.0468	Ave		0.0494		*	0.1000	10.9		15.0			
1,1-Dichloropropene	+++++ 0.4655	+++++ 0.4776	0.4309 0.4857	0.4658	0.4696	Ave		0.4658			0.0100	4.0		15.0			
Isooctane	+++++ 1.2726	+++++ 1.2682	1.1442 1.2605	1.2838	1.2963	Ave		1.2543			0.0100	4.4		15.0			
n-Heptane	+++++ 0.5348	+++++ 0.5338	0.4869 0.5298	0.5514	0.5415	Ave		0.5297			0.0100	4.2		15.0			
Benzene	1.3348 1.2495	1.4516 1.2673	1.1920 1.2830	1.3238	1.2891	Ave		1.2989			0.5000	5.9		15.0			
Propionitrile	+++++ 0.0158	+++++ 0.0159	0.0125 0.0161	0.0163	0.0152	Ave		0.0153			0.0010	9.2		15.0			
Methacrylonitrile	+++++ 0.0828	+++++ 0.0822	0.0696 0.0812	0.0866	0.0794	Ave		0.0803			0.0100	7.2		15.0			
Tert-amyl methyl ether	+++++ 0.6542	+++++ 0.6761	0.5377 0.6981	0.6430	0.6206	Ave		0.6383			0.0100	8.8		15.0			
Isobutyl alcohol	+++++ 0.0033	+++++ 0.0034	0.0018 0.0037	0.0030	0.0030	Lin1	-0.246	0.0037			0.0010				0.9980		0.9900
1,2-Dichloroethane	+++++ 0.2838	0.3497 0.2890	0.2733 0.2950	0.3054	0.2878	Ave		0.2977			0.1000	8.4		15.0			
Methylcyclohexane	+++++ 0.4635	+++++ 0.4698	0.4413 0.4623	0.4799	0.4809	Ave		0.4663			0.1000	3.1		15.0			
Trichloroethene	+++++ 0.3014	0.3528 0.3059	0.2892 0.3081	0.3232	0.3165	Ave		0.3139			0.2000	6.5		15.0			
n-Butanol	+++++ 0.0032	+++++ 0.0035	0.0018 0.0040	0.0027	0.0027	Lin1	-0.333	0.0038		*	0.0100				0.9950		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibromomethane	+++++ 0.1074	+++++ 0.1095	0.0951 0.1134	0.1099	0.1057	Ave		0.1068			0.0100	5.9		15.0			
Ethyl acrylate	+++++ 0.1533	+++++ 0.1656	0.1014 0.1810	0.1329	0.1294	Lin1	-0.504	0.1763			0.0100				0.9960		0.9900
1,2-Dichloropropane	+++++ 0.2563	+++++ 0.2636	0.2307 0.2690	0.2643	0.2590	Ave		0.2572			0.1000	5.3		15.0			
Bromodichloromethane	+++++ 0.3293	+++++ 0.3431	0.2785 0.3590	0.3226	0.3228	Ave		0.3259			0.2000	8.3		15.0			
Methyl methacrylate	+++++ 0.1100	+++++ 0.1178	0.0676 0.1251	0.0954	0.0945	Lin1	-0.675	0.1234			0.0100				0.9980		0.9900
1,4-Dioxane	+++++ 0.0014	+++++ 0.0014	0.0010 0.0015	0.0012	0.0013	Ave		0.0013			0.0010	14.1		15.0			
2-Chloroethyl vinyl ether	+++++ 0.0926	+++++ 0.1005	0.0627 0.1044	0.0756	0.0775	Lin1	-0.280	0.1035			0.0100				0.9980		0.9900
cis-1,3-Dichloropropene	+++++ 0.3823	+++++ 0.4053	0.3054 0.4192	0.3641	0.3716	Ave		0.3746			0.2000	10.6		15.0			
Toluene	0.9993 1.1697	1.2080 1.2232	1.0645 1.2562	1.2000	1.2028	Ave		1.1655			0.4000	7.5		15.0			
2-Nitropropane	+++++ 0.0495	+++++ 0.0583	0.0335 0.0664	0.0428	0.0404	Qua	-0.288	0.0504	0.0000420		0.0100				1.0000		0.9900
4-Methyl-2-pentanone (MIBK)	+++++ 0.1670	+++++ 0.1847	0.1146 0.2038	0.1464	0.1473	Lin1	-0.573	0.1974			0.1000				0.9950		0.9900
Tetrachloroethene	+++++ 0.3653	0.4351 0.3792	0.3525 0.3853	0.3925	0.3816	Ave		0.3845			0.2000	6.8		15.0			
trans-1,3-Dichloropropene	+++++ 0.5027	+++++ 0.5311	0.3909 0.5608	0.4725	0.4822	Ave		0.4900			0.1000	11.9		15.0			
Ethyl methacrylate	+++++ 0.3234	+++++ 0.3671	0.1894 0.4086	0.2507	0.2671	Lin1	-1.470	0.3954			0.0100				0.9940		0.9900
1,1,2-Trichloroethane	+++++ 0.2110	+++++ 0.2199	0.1819 0.2287	0.2202	0.2124	Ave		0.2123			0.1000	7.6		15.0			
Dibromochloromethane	+++++ 0.2251	+++++ 0.2422	0.1678 0.2585	0.2068	0.2143	Ave		0.2191			0.1000	14.3		15.0			
1,3-Dichloropropane	+++++ 0.4757	+++++ 0.4979	0.4165 0.5187	0.4877	0.4727	Ave		0.4782			0.0100	7.2		15.0			
n-Butyl acetate	+++++ 0.2959	+++++ 0.3201	0.1865 0.3555	0.2468	0.2515	Lin1	-1.072	0.3449			0.0100				0.9950		0.9900
1,2-Dibromoethane	+++++ 0.2041	+++++ 0.2157	0.1686 0.2230	0.2031	0.1994	Ave		0.2023			0.1000	9.3		15.0			
2-Hexanone	+++++ 0.1123	+++++ 0.1256	0.0697 0.1405	0.0970	0.0983	Lin1	-0.442	0.1356			0.1000				0.9940		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1-Chlorohexane	+++++ 0.7019	+++++ 0.7569	0.5547 0.7799	0.6505	0.6989	Ave		0.6904			0.0100	11.7		15.0			
Ethylbenzene	2.2956 2.2624	2.5005 2.3499	2.1273 2.3714	2.3527	2.3708	Ave		2.3288			0.1000	4.6		15.0			
Chlorobenzene	+++++ 1.0422	+++++ 1.0644	1.0025 1.0813	1.1067	1.0965	Ave		1.0656			0.5000	3.6		15.0			
1,1,1,2-Tetrachloroethane	+++++ 0.2971	+++++ 0.3102	0.2573 0.3214	0.3035	0.3052	Ave		0.2991			0.0100	7.4		15.0			
m,p-Xylenes	0.6857 0.7937	0.8043 0.8283	0.7073 0.8472	0.8011	0.8175	Ave		0.7856			0.1000	7.4		15.0			
o-Xylene	0.5544 0.7155	0.6574 0.7577	0.5919 0.7767	0.6889	0.7256	Ave		0.6835			0.3000	11.4		15.0			
Styrene	+++++ 1.1347	+++++ 1.2336	0.7737 1.2990	0.9703	1.0876	Lin1	-3.112	1.2828			0.3000				0.9990		0.9900
Bromoform	+++++ 0.2927	+++++ 0.3310	0.1996 0.3637	0.2673	0.2665	Lin1	-1.019	0.3522			0.1000				0.9950		0.9900
Isopropylbenzene	+++++ 4.2940	+++++ 4.5928	3.8425 4.5804	4.3480	4.5235	Ave		4.3635			0.1000	6.5		15.0			
N-Propylbenzene	+++++ 5.4551	+++++ 5.7910	4.8470 5.7868	5.5066	5.7761	Ave		5.5271			0.0100	6.6		15.0			
Bromobenzene	+++++ 0.8075	+++++ 0.8460	0.7616 0.8595	0.8674	0.8486	Ave		0.8318			0.0100	4.8		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.5472	+++++ 0.5882	0.4734 0.6048	0.5756	0.5509	Ave		0.5567			0.3000	8.3		15.0			
1,3,5-Trimethylbenzene	+++++ 3.4972	+++++ 3.7019	2.9875 3.6890	3.4297	3.6659	Ave		3.4952			0.0100	7.8		15.0			
2-Chlorotoluene	+++++ 3.4934	+++++ 3.6797	3.3472 3.6895	3.7124	3.7278	Ave		3.6083			0.0100	4.3		15.0			
1,2,3-Trichloropropane	+++++ 0.1567	+++++ 0.1681	0.1289 0.1729	0.1706	0.1612	Ave		0.1597			0.0100	10.2		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1414	+++++ 0.1582	0.1134 0.1671	0.1414	0.1344	Ave		0.1426			0.0100	13.2		15.0			
Cyclohexanone	+++++ 0.0115	+++++ 0.0126	0.0079 0.0143	0.0096	0.0101	Lin1	-0.427	0.0137			0.0010				0.9940		0.9900
4-Chlorotoluene	+++++ 3.1286	+++++ 3.3139	2.9002 3.3615	3.2021	3.3214	Ave		3.2046			0.0100	5.4		15.0			
tert-Butylbenzene	+++++ 2.9166	+++++ 3.0700	2.6160 3.0821	2.9705	3.1011	Ave		2.9594			0.0100	6.2		15.0			
1,2,4-Trimethylbenzene	+++++ 3.5077	+++++ 3.6894	3.0685 3.7111	3.5211	3.6771	Ave		3.5292			0.0100	6.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	+++++ 4.8365	+++++ 5.1270	4.4157 5.0743	4.9843	5.1923	Ave		4.9383			0.0100	5.8		15.0			
p-Isopropyltoluene	+++++ 3.7597	+++++ 3.9857	3.2200 3.9846	3.7565	3.9078	Ave		3.7690			0.0100	7.6		15.0			
1,3-Dichlorobenzene	+++++ 1.5138	+++++ 1.5814	1.5003 1.5967	1.6547	1.6267	Ave		1.5789			0.6000	3.9		15.0			
1,2,3-Trimethylbenzene	+++++ 3.2451	+++++ 3.4050	2.9690 3.3868	3.3923	3.4471	Ave		3.3076			0.0100	5.4		15.0			
1,4-Dichlorobenzene	+++++ 1.5083	+++++ 1.5379	1.5230 1.5299	1.6891	1.6191	Ave		1.5679			0.5000	4.5		15.0			
n-Butylbenzene	+++++ 0.8900	+++++ 0.9397	0.7809 0.9410	0.8915	0.9152	Ave		0.8930			0.0100	6.6		15.0			
Benzyl chloride	+++++ 0.1799	+++++ 0.2014	0.1031 0.2165	0.1566	0.1612	Lin1	-0.661	0.2122			0.0100				0.9970		0.9900
1,2-Dichlorobenzene	+++++ 1.2696	+++++ 1.3199	1.2269 1.3427	1.3804	1.3544	Lin1	-0.241	1.3311			0.4000				0.9990		0.9900
n-Nonyl Aldehyde	+++++ 0.2969	+++++ 0.3381	0.1271 0.4151	0.1852	0.2297	Qua	-0.940	0.2761	0.0007184		0.0100				1.0000		0.9900
1,2-Dibromo-3-Chloropropane	+++++ 0.0809	+++++ 0.0885	0.0454 0.0969	0.0698	0.0717	Lin1	-0.297	0.0946			0.0500				0.9970		0.9900
1,3,5-Trichlorobenzene	+++++ 1.3777	+++++ 1.4382	1.3500 1.4718	1.5083	1.4733	Ave		1.4365			0.0100	4.3		15.0			
Hexachlorobutadiene	+++++ 0.9208	+++++ 0.9752	0.9345 0.9836	1.0027	1.0035	Ave		0.9701			0.0100	3.6		15.0			
1,2,4-Trichlorobenzene	+++++ 1.0348	+++++ 1.0813	0.9572 1.1039	1.0787	1.0966	Ave		1.0588			0.2000	5.2		15.0			
Naphthalene	+++++ 1.1441	+++++ 1.2653	0.8965 1.3297	1.1223	1.0985	Ave		1.1427			0.0100	13.2		15.0			
1,2,3-Trichlorobenzene	+++++ 0.8218	+++++ 0.8619	0.7606 0.8780	0.9135	0.8665	Ave		0.8504			0.0100	6.2		15.0			
Dibromofluoromethane (Surr)	+++++ 0.1943	+++++ 0.1979	0.1847 0.1975	0.1848	0.1917	Ave		0.1918			0.0100	3.1		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.2476	+++++ 0.2454	0.2553 0.2471	0.2573	0.2457	Ave		0.2497			0.0100	2.1		15.0			
Toluene-d8 (Surr)	+++++ 1.5583	+++++ 1.5817	1.5178 1.6008	1.4886	1.5637	Ave		1.5518			0.0100	2.7		15.0			
4-Bromofluorobenzene (Surr)	+++++ 1.1047	+++++ 1.1544	1.0955 1.1194	1.0331	1.0966	Ave		1.1006			0.0100	3.6		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-419780/3	LICL4077.D
Level 2	IC 160-419780/4	LICL4078.D
Level 3	IC 160-419780/16	LICL4090.D
Level 4	IC 160-419780/6	LICL4080.D
Level 5	IC 160-419780/7	LICL4081.D
Level 6	ICIS 160-419780/8	LICL4082.D
Level 7	IC 160-419780/9	LICL4083.D
Level 8	IC 160-419780/10	LICL4084.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	+++++ 442765	+++++ 684514	40513 1412741	86792	174834	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	FB	Ave	+++++ 108707	+++++ 186161	8367 386953	17135	42044	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chloromethane	FB	Ave	+++++ 345251	+++++ 617063	32865 1278071	67907	136057	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Vinyl chloride	FB	Ave	+++++ 373303	+++++ 689243	33043 1448529	70635	144077	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Butadiene	FB	Ave	+++++ 336869	+++++ 605176	30636 1202476	63140	128036	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromomethane	FB	Ave	+++++ 191839	+++++ 339773	18854 704060	42777	81769	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chloroethane	FB	Ave	+++++ 190578	+++++ 336962	21438 861713	42445	87328	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	+++++ 503923	+++++ 957307	47841 1949003	98732	199165	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	+++++ 567430	+++++ 1113949	52405 2282979	110432	221809	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl ether	FB	Ave	+++++ 124803	+++++ 253652	9451 537000	21136	44442	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethanol	FB	Ave	+++++ 50338	+++++ 100561	3665 216424	8949	18424	+++++ 2000	+++++ 4000	200 8000	400	800
1,1-Dichloroethene	FB	Ave	+++++ 256419	+++++ 504386	22340 1049060	45804	95731	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Carbon disulfide	FB	Ave	+++++ 1003583	+++++ 1941132	83347 4019992	181481	380657	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 201697	+++++ 392111	18082 787796	38925	79252	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Iodomethane	FB	Qua	+++++ 123604	+++++ 325488	5430 708377	6477	24573	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Acrolein	FB	Ave	+++++ 32632	+++++ 71484	2565 161028	5333	10960	+++++ 250	+++++ 500	25.0 1000	50.0	100
3-Chloro-1-propene	FB	Ave	+++++ 313943	+++++ 622947	27482 1280229	56159	116976	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isopropyl alcohol	FB	Ave	+++++ 72754	+++++ 146204	7024 320515	14135	26018	+++++ 500	+++++ 1000	50.0 2000	100	200
Methylene Chloride	FB	Ave	+++++ 253013	+++++ 500830	22366 1043243	48026	96548	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Acetone	FB	Ave	+++++ 33047	+++++ 67964	2722 144118	6411	11419	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 281364	+++++ 568158	25146 1154229	51694	106250	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methyl acetate	FB	Ave	+++++ 42706	+++++ 86038	2977 180605	7477	14587	+++++ 250	+++++ 500	25.0 1000	50.0	100
Hexane	FB	Ave	+++++ 106103	+++++ 205639	8514 427577	18436	40505	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methyl tert-butyl ether	FB	Ave	+++++ 589027	+++++ 1201074	45265 2542013	103894	206341	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Methyl-2-propanol	FB	Ave	+++++ 130118	+++++ 267408	8866 603148	22486	43859	+++++ 500	+++++ 1000	50.0 2000	100	200
Acetonitrile	FB	Ave	+++++ 128420	+++++ 257515	11336 533060	24169	47505	+++++ 500	+++++ 1000	50.0 2000	100	200
Isopropyl ether	FB	Ave	+++++ 708226	+++++ 1440406	55022 2995164	124123	258727	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 441941	+++++ 897203	33716 1868929	73824	159669	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	+++++ 528401	+++++ 1055336	46294 2207952	99238	203322	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Acrylonitrile	FB	Ave	+++++ 400800	+++++ 808931	30702 1676696	72907	142013	+++++ 500	+++++ 1000	50.0 2000	100	200
Tert-butyl ethyl ether	FB	Ave	+++++ 681189	+++++ 1388672	51568 2936596	118340	243447	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Vinyl acetate	FB	Ave	+++++ 336562	+++++ 719642	27252 1462336	58577	118170	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 282790	+++++ 570377	23534 1184293	51468	106386	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 507303	+++++ 1032848	46100 2141760	94916	194501	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Cyclohexane	FB	Ave	+++++ 542899	+++++ 1089253	45360 2226134	96563	205367	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromochloromethane	FB	Ave	+++++ 81976	+++++ 162430	7078 329369	15360	31226	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	FB	Ave	+++++ 495492	+++++ 988899	44987 2066037	94807	188248	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl acetate	FB	Lin1	+++++ 31586	+++++ 64836	1916 139783	5708	11245	+++++ 100	+++++ 200	10.0 400	20.0	40.0
Carbon tetrachloride	FB	Ave	+++++ 366397	+++++ 752281	31678 1558601	66424	138853	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Tetrahydrofuran	FB	Lin1	+++++ 31222	+++++ 64414	1696 138634	5170	10240	+++++ 100	+++++ 200	10.0 400	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	+++++ 480615	+++++ 969490	42110 2006790	90836	184891	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	+++++ 50598	+++++ 106150	3688 218987	9437	17563	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	+++++ 469826	+++++ 951069	39941 1975476	83750	176108	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isooctane	FB	Ave	+++++ 1284421	+++++ 2525372	106070 5126226	230819	486151	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Heptane	FB	Ave	+++++ 539718	+++++ 1062933	45136 2154795	99131	203073	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Benzene	FB	Ave	20435 1261036	57730 2523671	110498 5218007	238006	483467	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Propionitrile	FB	Ave	+++++ 159212	+++++ 316908	11623 655733	29386	57061	+++++ 500	+++++ 1000	50.0 2000	100	200
Methacrylonitrile	FB	Ave	+++++ 835691	+++++ 1637130	64508 3300590	155741	297855	+++++ 500	+++++ 1000	50.0 2000	100	200
Tert-amyl methyl ether	FB	Ave	+++++ 660207	+++++ 1346425	49842 2839191	115613	232754	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isobutyl alcohol	FB	Lin1	+++++ 82644	+++++ 170420	4132 379195	13338	28078	+++++ 1250	+++++ 2500	125 5000	250	500
1,2-Dichloroethane	FB	Ave	+++++ 286468	13907 575590	25339 1199940	54908	107943	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
Methylcyclohexane	FB	Ave	+++++ 467746	+++++ 935467	40911 1880144	86280	180353	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Trichloroethene	FB	Ave	+++++ 304211	14032 609252	26813 1253030	58114	118699	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
n-Butanol	FB	Lin1	+++++ 81569	+++++ 174457	4077 402130	11992	25286	+++++ 1250	+++++ 2500	125 5000	250	500
Dibromomethane	FB	Ave	+++++ 108408	+++++ 218069	8817 461187	19766	39624	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl acrylate	FB	Lin1	+++++ 154696	+++++ 329672	9400 735931	23886	48529	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	+++++ 258717	+++++ 524941	21383 1094110	47526	97123	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Bromodichloromethane	FB	Ave	+++++ 332398	+++++ 683299	25818 1460151	58003	121050	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methyl methacrylate	FB	Lin1	+++++ 222047	+++++ 469090	12526 1017289	34305	70896	+++++ 100	+++++ 200	10.0 400	20.0	40.0
1,4-Dioxane	FB	Ave	+++++ 27842	+++++ 57165	1878 123987	4301	9622	+++++ 1000	+++++ 2000	100 4000	200	400
2-Chloroethyl vinyl ether	FB	Lin1	+++++ 93411	+++++ 200057	5812 424461	13594	29080	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
cis-1,3-Dichloropropene	FB	Ave	+++++ 385828	+++++ 807061	28307 1704707	65467	139359	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Toluene	CBNZ d5	Ave	9868 764972	30970 1544149	62141 3202043	140078	290188	1.00 50.0	2.50 100	5.00 200	10.0	20.0
2-Nitropropane	CBNZ d5	Qua	+++++ 64805	+++++ 147268	3916 338500	10002	19515	+++++ 100	+++++ 200	10.0 400	20.0	40.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Lin1	+++++ 109196	+++++ 233106	6688 519548	17086	35533	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Tetrachloroethene	CBNZ d5	Ave	+++++ 238922	11155 478716	20578 982221	45816	92064	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 328753	+++++ 670505	22817 1429444	55155	116336	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl methacrylate	CBNZ d5	Lin1	+++++ 211503	+++++ 463365	11056 1041547	29263	64443	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 137962	+++++ 277613	10620 583066	25702	51239	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dibromochloromethane	CBNZ d5	Ave	+++++ 147226	+++++ 305738	9798 658939	24145	51699	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 311088	+++++ 628574	24311 1322065	56932	114046	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Butyl acetate	CBNZ d5	Lin1	+++++ 193547	+++++ 404083	10888 906165	28814	60678	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 133493	+++++ 272356	9845 568317	23714	48111	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Hexanone	CBNZ d5	Lin1	+++++ 73442	+++++ 158553	4071 358111	11329	23723	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1-Chlorohexane	CBNZ d5	Ave	+++++ 459026	+++++ 955522	32381 1987914	75930	168604	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	22668 1479623	64105 2966409	124186 6044725	274644	571973	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	+++++ 681617	+++++ 1343616	58520 2756296	129189	264545	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 194336	+++++ 391608	15018 819184	35426	73635	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
m,p-Xylenes	CBNZ d5	Ave	6771 519059	20619 1045594	41292 2159611	93514	197234	1.00 50.0	2.50 100	5.00 200	10.0	20.0
o-Xylene	CBNZ d5	Ave	5474 467948	16854 956491	34554 1979727	80419	175045	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Styrene	CBNZ d5	Lin1	+++++ 742079	+++++ 1557280	45168 3311150	113262	262400	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromoform	DCBd 4	Lin1	+++++ 93657	+++++ 201704	5418 453433	14991	30801	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isopropylbenzene	DCBd 4	Ave	+++++ 1373929	+++++ 2799114	104294 5710290	243869	522815	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
N-Propylbenzene	DCBd 4	Ave	+++++ 1745446	+++++ 3529390	131559 7214183	308853	667598	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromobenzene	DCBd 4	Ave	+++++ 258380	+++++ 515620	20671 1071561	48648	98082	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 175096	+++++ 358485	12850 754029	32284	63670	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 1118976	+++++ 2256167	81087 4598946	192364	423696	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 1117768	+++++ 2242641	90852 4599543	208217	430856	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 50147	+++++ 102432	3499 215565	9567	18631	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 45237	+++++ 96407	3078 208360	7930	15532	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Cyclohexanone	DCBd 4	Lin1	+++++ 36813	+++++ 77048	2144 178024	5388	11624	+++++ 500	+++++ 1000	50.0 2000	100	200
4-Chlorotoluene	DCBd 4	Ave	+++++ 1001024	+++++ 2019712	78719 4190677	179600	383880	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 933192	+++++ 1871042	71005 3842397	166610	358423	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 1122345	+++++ 2248534	83286 4626483	197492	424993	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 1547506	+++++ 3124704	119853 6325907	279554	600115	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
p-Isopropyltoluene	DCBd 4	Ave	+++++ 1202960	+++++ 2429142	87397 4967522	210690	451658	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 484355	+++++ 963800	40721 1990592	92807	188012	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 1038313	+++++ 2075216	80586 4222235	190264	398410	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 482616	+++++ 937300	41338 1907288	94736	187130	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
n-Butylbenzene	DCBd 4	Ave	+++++ 284765	+++++ 572700	21195 1173097	50002	105783	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Benzyl chloride	DCBd 4	Lin1	+++++ 57548	+++++ 122744	2798 269890	8786	18633	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Lin1	+++++ 406223	+++++ 804436	33302 1673883	77423	156536	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Nonyl Aldehyde	DCBd 4	Qua	+++++ 94986	+++++ 206039	3451 517491	10389	26547	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin1	+++++ 25887	+++++ 53957	1232 120855	3917	8287	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 440805	+++++ 876511	36642 1834846	84594	170288	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 294614	+++++ 594353	25365 1226273	56238	115982	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 331097	+++++ 659034	25980 1376222	60500	126743	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Naphthalene	DCBd 4	Ave	+++++ 366084	+++++ 771166	24333 1657686	62948	126962	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 262944	+++++ 525307	20645 1094608	51238	100151	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 196089	+++++ 394084	17118 803388	33226	71906	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 249913	+++++ 488618	23668 1005062	46263	92147	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	+++++ 1019145	+++++ 1996661	88603 4080575	173769	377241	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	+++++ 353459	+++++ 703554	29735 1395500	57946	126742	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-419780/3	LICL4077.D
Level 2	IC 160-419780/4	LICL4078.D
Level 3	IC 160-419780/16	LICL4090.D
Level 4	IC 160-419780/6	LICL4080.D
Level 5	IC 160-419780/7	LICL4081.D
Level 6	ICIS 160-419780/8	LICL4082.D
Level 7	IC 160-419780/9	LICL4083.D
Level 8	IC 160-419780/10	LICL4084.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	+++++ -18.0	+++++ -17.2	4.2	15.1	11.2	4.6	30	30	30	30	30	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ -5.6	+++++ -3.9	-8.8	-3.7	13.2	8.8	30	30	30	30	30	30
Chloromethane	+++++ -9.8	+++++ -8.5	3.2	9.9	5.6	-0.4	30	30	30	30	30	30
Vinyl chloride	+++++ -5.8	+++++ -3.1	-3.0	6.9	4.5	0.6	30	30	30	30	30	30
Butadiene	+++++ -6.8	+++++ -9.3	1.4	7.7	4.7	2.4	30	30	30	30	30	30
Bromomethane	+++++ -14.2	+++++ -12.9	2.3	19.6	9.6	-4.4	30	30	30	30	30	30
Chloroethane	+++++ -20.1	+++++ 0.1	9.2	11.5	10.0	-10.8	30	30	30	30	30	30
Trichlorofluoromethane	+++++ -5.6	+++++ -5.9	1.3	7.8	4.3	-2.0	30	30	30	30	30	30
Dichlorofluoromethane	+++++ -2.8	+++++ -2.5	-1.8	6.7	2.7	-2.3	30	30	30	30	30	30
Ethyl ether	+++++ 6.0	+++++ 9.9	-15.2	-2.2	-1.4	2.9	30	30	30	30	30	30
Ethanol	+++++ 3.8	+++++ 9.3	-18.8	2.3	0.9	2.5	30	30	30	30	30	30
1,1-Dichloroethene	+++++ 0.2	+++++ 2.1	-4.6	0.8	1.0	0.5	30	30	30	30	30	30
Carbon disulfide	+++++ -0.6	+++++ 0.8	-8.3	3.0	3.6	1.4	30	30	30	30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ -2.6	+++++ -4.2	-3.5	7.1	4.5	-1.2	30	30	30	30	30	30
Iodomethane	+++++ 3.9	+++++ -0.3	95.7 *	2.1	-19.2	-9.0	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Acrolein	+++++ 10.8	+++++ 22.2	-14.6	-8.4	-9.8	-0.2	30	30	30	30	30	30
3-Chloro-1-propene	+++++ 0.9	+++++ 1.6	-4.3	0.8	0.6	0.4	30	30	30	30	30	30
Isopropyl alcohol	+++++ -1.7	+++++ 5.5	1.5	5.3	-7.1	-3.5	30	30	30	30	30	30
Methylene Chloride	+++++ -1.0	+++++ 1.0	-5.0	5.1	1.3	-1.3	30	30	30	30	30	30
Acetone	+++++ 3.5	+++++ 7.5	-10.9	8.2	-7.6	-0.7	30	30	30	30	30	30
trans-1,2-Dichloroethene	+++++ 1.3	+++++ 0.8	-3.7	2.1	0.6	-1.0	30	30	30	30	30	30
Methyl acetate	+++++ 6.9	+++++ 9.9	-20.6	2.9	-3.8	4.7	30	30	30	30	30	30
Hexane	+++++ 0.6	+++++ 2.4	-10.5	-0.1	5.2	2.4	30	30	30	30	30	30
Methyl tert-butyl ether	+++++ 5.6	+++++ 9.4	-14.5	1.1	-3.7	2.1	30	30	30	30	30	30
2-Methyl-2-propanol	+++++ 7.5	+++++ 18.8	-23.4	0.2	-6.3	3.3	30	30	30	30	30	30
Acetonitrile	+++++ 0.6	+++++ 2.0	-4.8	4.6	-1.4	-1.0	30	30	30	30	30	30
Isopropyl ether	+++++ 4.9	+++++ 6.9	-13.9	0.2	0.1	1.8	30	30	30	30	30	30
2-Chloro-1,3-butadiene	+++++ 6.1	+++++ 8.2	-14.4	-3.3	0.3	3.1	30	30	30	30	30	30
1,1-Dichloroethane	+++++ -0.3	+++++ 2.1	-6.1	3.8	2.0	-1.5	30	30	30	30	30	30
Acrylonitrile	+++++ 4.6	+++++ 6.1	-14.8	4.4	-2.5	2.2	30	30	30	30	30	30
Tert-butyl ethyl ether	+++++ 5.7	+++++ 9.5	-15.7	-0.2	-1.6	2.3	30	30	30	30	30	30
Vinyl acetate	+++++ 9.0	+++++ 8.5	-11.3	-1.7	-5.0	0.6	30	30	30	30	30	30
cis-1,2-Dichloroethene	+++++ 2.2	+++++ 3.9	-9.4	2.1	1.2	0.0	30	30	30	30	30	30
2,2-Dichloropropane	+++++ 0.7	+++++ 2.2	-3.5	2.4	0.6	-2.5	30	30	30	30	30	30
Cyclohexane	+++++ 2.4	+++++ 2.4	-8.4	0.5	2.5	0.7	30	30	30	30	30	30
Bromochloromethane	+++++ 0.1	+++++ -0.6	-6.3	4.9	2.2	-0.3	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chloroform	+++++ -1.0	+++++ 1.3	-3.3	5.1	0.1	-2.1	30	30	30	30	30	30
Ethyl acetate	+++++ -2.4	+++++ 2.1	-3.7	11.2	-2.9	-4.3	30	30	30	30	30	30
Carbon tetrachloride	+++++ 2.8	+++++ 4.3	-7.0	0.5	0.7	-1.2	30	30	30	30	30	30
Tetrahydrofuran	+++++ -1.9	+++++ 2.1	1.8	8.9	-7.3	-3.7	30	30	30	30	30	30
1,1,1-Trichloroethane	+++++ 0.4	+++++ 1.8	-6.3	4.2	1.7	-1.8	30	30	30	30	30	30
2-Butanone (MEK)	+++++ 7.9	+++++ 9.0	-19.5	6.3	-5.2	1.5	30	30	30	30	30	30
1,1-Dichloropropene	+++++ 2.5	+++++ 4.3	-7.5	0.0	0.8	-0.1	30	30	30	30	30	30
Isooctane	+++++ 1.1	+++++ 0.5	-8.8	2.4	3.3	1.5	30	30	30	30	30	30
n-Heptane	+++++ 0.8	+++++ 0.0	-8.1	4.1	2.2	1.0	30	30	30	30	30	30
Benzene	2.8 -2.4	11.8 -1.2	-8.2	1.9	-0.8	-3.8	30 30	30 30	30	30	30	30
Propionitrile	+++++ 3.9	+++++ 5.3	-18.2	6.7	-0.7	3.0	30	30	30	30	30	30
Methacrylonitrile	+++++ 2.4	+++++ 1.1	-13.3	7.9	-1.1	3.1	30	30	30	30	30	30
Tert-amyl methyl ether	+++++ 5.9	+++++ 9.4	-15.8	0.7	-2.8	2.5	30	30	30	30	30	30
Isobutyl alcohol	+++++ -3.8	+++++ 3.2	2.5	8.0	-4.7	-5.2	30	30	30	30	30	30
1,2-Dichloroethane	+++++ -2.9	17.4 -0.9	-8.2	2.6	-3.3	-4.7	30	30 30	30	30	30	30
Methylcyclohexane	+++++ 0.7	+++++ -0.9	-5.4	2.9	3.1	-0.6	30	30	30	30	30	30
Trichloroethene	+++++ -2.5	12.4 -1.8	-7.9	3.0	0.8	-4.0	30	30 30	30	30	30	30
n-Butanol	+++++ -4.9	+++++ 5.2	15.7	4.6	-12.1	-8.5	30	30	30	30	30	30
Dibromomethane	+++++ 2.5	+++++ 6.1	-11.0	2.9	-1.1	0.5	30	30	30	30	30	30
Ethyl acrylate	+++++ -3.2	+++++ 4.1	14.7	4.0	-12.3	-7.3	30	30	30	30	30	30
1,2-Dichloropropane	+++++ 2.5	+++++ 4.6	-10.3	2.8	0.7	-0.3	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Bromodichloromethane	+++++ 5.3	+++++ 10.2	-14.5	-1.0	-1.0	1.1	30	30	30	30	30	30
Methyl methacrylate	+++++ -1.8	+++++ 2.7	9.5	4.7	-9.7	-5.4	30	30	30	30	30	30
1,4-Dioxane	+++++ 10.0	+++++ 16.8	-22.4	-8.4	-1.7	5.7	30	30	30	30	30	30
2-Chloroethyl vinyl ether	+++++ -0.2	+++++ 2.2	14.7	0.1	-11.6	-5.2	30	30	30	30	30	30
cis-1,3-Dichloropropene	+++++ 8.2	+++++ 11.9	-18.5	-2.8	-0.8	2.0	30	30	30	30	30	30
Toluene	-14.3 5.0	3.7 7.8	-8.7	3.0	3.2	0.4	30 30	30 30	30	30	30	30
2-Nitropropane	+++++ 1.4	+++++ -0.1	22.5	11.5	-8.3	-3.7	30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	+++++ -3.6	+++++ 4.7	16.1	3.2	-10.9	-9.6	30	30	30	30	30	30
Tetrachloroethene	+++++ -1.4	13.2 0.2	-8.3	2.1	-0.8	-5.0	30	30 30	30	30	30	30
trans-1,3-Dichloropropene	+++++ 8.4	+++++ 14.4	-20.2	-3.6	-1.6	2.6	30	30	30	30	30	30
Ethyl methacrylate	+++++ -3.4	+++++ 5.2	22.3	0.6	-13.8	-10.8	30	30	30	30	30	30
1,1,2-Trichloroethane	+++++ 3.6	+++++ 7.7	-14.3	3.7	0.0	-0.7	30	30	30	30	30	30
Dibromochloromethane	+++++ 10.5	+++++ 18.0	-23.4	-5.6	-2.2	2.7	30	30	30	30	30	30
1,3-Dichloropropane	+++++ 4.1	+++++ 8.5	-12.9	2.0	-1.1	-0.5	30	30	30	30	30	30
n-Butyl acetate	+++++ -4.1	+++++ 4.6	16.3	2.7	-11.5	-8.0	30	30	30	30	30	30
1,2-Dibromoethane	+++++ 6.6	+++++ 10.2	-16.7	0.4	-1.4	0.9	30	30	30	30	30	30
2-Hexanone	+++++ -4.1	+++++ 5.2	16.6	4.2	-11.2	-10.7	30	30	30	30	30	30
1-Chlorohexane	+++++ 9.6	+++++ 13.0	-19.7	-5.8	1.2	1.7	30	30	30	30	30	30
Ethylbenzene	-1.4 0.9	7.4 1.8	-8.7	1.0	1.8	-2.9	30 30	30 30	30	30	30	30
Chlorobenzene	+++++ -0.1	+++++ 1.5	-5.9	3.9	2.9	-2.2	30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	+++++ 3.7	+++++ 7.4	-14.0	1.5	2.0	-0.7	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
m,p-Xylenes	-12.7 5.4	2.4 7.8	-10.0	2.0	4.1	1.0	30 30	30 30	30	30	30	30
o-Xylene	-18.9 10.9	-3.8 13.6	-13.4	0.8	6.2	4.7	30 30	30 30	30	30	30	30
Styrene	+++++ -1.4	+++++ 2.5	8.8	-0.1	-3.1	-6.7	30	30	30	30	30	30
Bromoform	+++++ -3.1	+++++ 4.7	14.5	4.8	-9.9	-11.1	30	30	30	30	30	30
Isopropylbenzene	+++++ 5.3	+++++ 5.0	-11.9	-0.4	3.7	-1.6	30	30	30	30	30	30
N-Propylbenzene	+++++ 4.8	+++++ 4.7	-12.3	-0.4	4.5	-1.3	30	30	30	30	30	30
Bromobenzene	+++++ 1.7	+++++ 3.3	-8.4	4.3	2.0	-2.9	30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	+++++ 5.7	+++++ 8.6	-15.0	3.4	-1.0	-1.7	30	30	30	30	30	30
1,3,5-Trimethylbenzene	+++++ 5.9	+++++ 5.5	-14.5	-1.9	4.9	0.1	30	30	30	30	30	30
2-Chlorotoluene	+++++ 2.0	+++++ 2.2	-7.2	2.9	3.3	-3.2	30	30	30	30	30	30
1,2,3-Trichloropropane	+++++ 5.2	+++++ 8.3	-19.3	6.8	0.9	-1.9	30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	+++++ 10.9	+++++ 17.2	-20.5	-0.9	-5.8	-0.9	30	30	30	30	30	30
Cyclohexanone	+++++ -4.9	+++++ 5.5	19.6	1.0	-11.3	-10.0	30	30	30	30	30	30
4-Chlorotoluene	+++++ 3.4	+++++ 4.9	-9.5	-0.1	3.6	-2.4	30	30	30	30	30	30
tert-Butylbenzene	+++++ 3.7	+++++ 4.1	-11.6	0.4	4.8	-1.4	30	30	30	30	30	30
1,2,4-Trimethylbenzene	+++++ 4.5	+++++ 5.2	-13.1	-0.2	4.2	-0.6	30	30	30	30	30	30
sec-Butylbenzene	+++++ 3.8	+++++ 2.8	-10.6	0.9	5.1	-2.1	30	30	30	30	30	30
p-Isopropyltoluene	+++++ 5.7	+++++ 5.7	-14.6	-0.3	3.7	-0.2	30	30	30	30	30	30
1,3-Dichlorobenzene	+++++ 0.2	+++++ 1.1	-5.0	4.8	3.0	-4.1	30	30	30	30	30	30
1,2,3-Trimethylbenzene	+++++ 2.9	+++++ 2.4	-10.2	2.6	4.2	-1.9	30	30	30	30	30	30
1,4-Dichlorobenzene	+++++ -1.9	+++++ -2.4	-2.9	7.7	3.3	-3.8	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1 Analy Batch No.: 419780

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/18/2019 10:33 Calibration End Date: 03/18/2019 17:13 Calibration ID: 15690

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
n-Butylbenzene	+++++ 5.2	+++++ 5.4	-12.6	-0.2	2.5	-0.3	30	30	30	30	30	30
Benzyl chloride	+++++ -2.0	+++++ 3.6	10.9	5.0	-8.5	-9.0	30	30	30	30	30	30
1,2-Dichlorobenzene	+++++ -0.7	+++++ 1.0	-4.2	5.5	2.7	-4.3	30	30	30	30	30	30
n-Nonyl Aldehyde	+++++ -0.1	+++++ 0.0	12.5	-1.4	-4.5	1.0	30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	+++++ -3.3	+++++ 4.0	10.8	5.2	-8.5	-8.2	30	30	30	30	30	30
1,3,5-Trichlorobenzene	+++++ 0.1	+++++ 2.5	-6.0	5.0	2.6	-4.1	30	30	30	30	30	30
Hexachlorobutadiene	+++++ 0.5	+++++ 1.4	-3.7	3.4	3.4	-5.1	30	30	30	30	30	30
1,2,4-Trichlorobenzene	+++++ 2.1	+++++ 4.3	-9.6	1.9	3.6	-2.3	30	30	30	30	30	30
Naphthalene	+++++ 10.7	+++++ 16.4	-21.5	-1.8	-3.9	0.1	30	30	30	30	30	30
1,2,3-Trichlorobenzene	+++++ 1.4	+++++ 3.2	-10.6	7.4	1.9	-3.4	30	30	30	30	30	30
Dibromofluoromethane (Surr)	+++++ 3.2	+++++ 3.0	-3.7	-3.7	0.0	1.3	30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	+++++ -1.8	+++++ -1.0	2.2	3.0	-1.6	-0.8	30	30	30	30	30	30
Toluene-d8 (Surr)	+++++ 1.9	+++++ 3.2	-2.2	-4.1	0.8	0.4	30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	+++++ 4.9	+++++ 1.7	-0.5	-6.1	-0.4	0.4	30	30	30	30	30	30

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4077.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 18-Mar-2019 10:33:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: DEK Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 19-Mar-2019 16:06:41 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0338

First Level Reviewer: aguk Date: 18-Mar-2019 14:15:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	96	7838	1.00	1.22	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.402				ND	ND	
3 Chloromethane	50	3.514	3.514	0.000	95	6393	1.00	1.22	
4 Vinyl chloride	62	3.681	3.681	0.000	95	5668	1.00	1.01	
122 Butadiene	39	3.709	3.709	0.000	94	5647	1.00	1.13	
5 Bromomethane	94	4.282	4.282	0.000	86	4052	1.00	1.33	
6 Chloroethane	64		4.491				ND	ND	
7 Trichlorofluoromethane	101	4.743	4.743	0.000	97	8884	1.00	1.14	
123 Dichlorofluoromethane	67	4.854	4.854	0.000	93	9905	1.00	1.12	
8 Ethyl ether	74	5.245	5.245	0.000	87	1948	1.00	1.06	
11 Ethanol	45		5.483				ND	ND	
9 1,1-Dichloroethene	96	5.553	5.553	0.000	94	4222	1.00	1.09	
10 Carbon disulfide	76	5.595	5.595	0.000	99	16324	1.00	1.09	
12 1,1,2-Trichloro-1,2,2-trif	151	5.609	5.609	0.000	84	3436	1.00	1.11	
13 Iodomethane	142		5.762				ND	ND	
S 26 1,2-Dichloroethene, Total	96				0			2.04	
14 Acrolein	56		6.042				ND	ND	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	89	5066	1.00	1.07	
16 Isopropyl alcohol	45	6.223	6.223	0.000	39	1848	10.0	16.2	
17 Methylene Chloride	84	6.349	6.349	0.000	87	4229	1.00	1.09	
18 Acetone	43		6.419				ND	ND	
20 Methyl acetate	74		6.544				ND	ND	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	95	4306	1.00	1.00	
21 Hexane	86	6.614	6.614	0.000	93	1134	1.00	0.7216	
22 Methyl tert-butyl ether	73		6.656				1.00	ND	
23 2-Methyl-2-propanol	59	6.754	6.768	-0.014	93	2620	10.0	13.7	
24 Acetonitrile	41	6.991	6.991	0.000	85	2190	10.0	11.1	
25 Isopropyl ether	45	7.075	7.075	0.000	90	9821	1.00	0.9307	
27 2-Chloro-1,3-butadiene	53		7.229				ND	ND	
28 1,1-Dichloroethane	63	7.257	7.271	-0.014	91	8348	1.00	1.03	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.326	7.326	0.000	97	6645	10.0	11.2	
30 Tert-butyl ethyl ether	59	7.480	7.480	0.000	96	8959	1.00	0.8871	
31 Vinyl acetate	43	7.508	7.508	0.000	92	4919	1.00	0.9691	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	80	4468	1.00	1.04	
33 2,2-Dichloropropane	77	7.941	7.955	-0.014	85	8561	1.00	1.09	
35 Chlorobromomethane	128	8.039	8.039	0.000	57	1004	1.00	0.8049	
34 Cyclohexane	84	8.039	8.039	0.000	91	7075	1.00	0.8648	
36 Chloroform	83	8.095	8.095	0.000	91	7767	1.00	1.01	
39 Ethyl acetate	45		8.178				ND	ND	
37 Carbon tetrachloride	117	8.248	8.248	0.000	93	4881	1.00	0.8673	
38 Tetrahydrofuran	71		8.262				ND	ND	
$ 41 Dibromofluoromethane (Surr	113	8.276	8.290	-0.014	36	1474	1.00	0.5019	a
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	95	7296	1.00	0.9829	
43 2-Butanone (MEK)	43		8.402				ND	ND	
42 1,1-Dichloropropene	75	8.430	8.430	0.000	94	6567	1.00	0.9208	
125 Isooctane	57	8.500	8.514	-0.014	97	17166	1.00	0.8939	
117 n-Heptane	43	8.583	8.583	0.000	86	7205	1.00	0.8885	
44 Benzene	78	8.681	8.681	0.000	91	20435	1.00	1.03	
45 Propionitrile	54	8.709	8.709	0.000	1	2594	10.0	11.1	
46 Methacrylonitrile	41	8.723	8.723	0.000	91	13338	10.0	10.8	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	96	8584	1.00	0.8784	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	89	2978	1.00	0.7789	a
50 Isobutyl alcohol	42	8.807	8.807	0.000	40	1163	25.0	88.1	
49 1,2-Dichloroethane	62	8.877	8.877	0.000	94	4782	1.00	1.05	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	765497	50.0	50.0	
53 Trichloroethene	95	9.212	9.212	0.000	66	5311	1.00	1.11	
52 Methylcyclohexane	55	9.212	9.212	0.000	87	7371	1.00	1.03	
54 n-Butanol	56	9.435	9.435	0.000	29	1223	25.0	108.0	
55 Dibromomethane	93	9.617	9.631	-0.014	20	1588	1.00	0.9709	
124 Ethyl acrylate	55		9.645				ND	ND	
56 1,2-Dichloropropane	63	9.715	9.715	0.000	86	4248	1.00	1.08	
57 Dichlorobromomethane	83	9.743	9.743	0.000	94	4468	1.00	0.8955	
58 Methyl methacrylate	69		9.840				ND	ND	
59 1,4-Dioxane	88		9.924				ND	ND	
60 2-Chloroethyl vinyl ether	63		10.217				ND	ND	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	93	4674	1.00	0.8149	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	92	9516	1.00	0.6210	a
63 Toluene	92	10.525	10.525	0.000	98	9868	1.00	0.8575	
64 2-Nitropropane	43		10.748				ND	ND	
66 4-Methyl-2-pentanone (MIBK	43		10.832				ND	ND	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	76	4043	1.00	0.8355	
65 Tetrachloroethene	164	10.888	10.888	0.000	94	3757	1.00	0.9895	
69 Ethyl methacrylate	69		10.972				ND	ND	
68 1,1,2-Trichloroethane	83		11.041				ND	ND	
70 Chlorodibromomethane	129	11.223	11.223	0.000	1	1649	1.00	0.7621	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	86	5021	1.00	1.06	
119 n-Butyl acetate	43		11.446				ND	ND	
72 Ethylene Dibromide	107	11.460	11.474	-0.014	62	1808	1.00	0.9049	
74 2-Hexanone	43		11.572				ND	ND	
S 73 1,3-Dichloropropene, Total	75				0			1.65	
75 1-Chlorohexane	91	11.837	11.838	-0.001	92	4869	1.00	0.7142	
78 Ethylbenzene	91	11.907	11.907	0.000	62	22668	1.00	0.9857	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.893	11.907	-0.014	92	493730	50.0	50.0	
77 Chlorobenzene	112	11.921	11.921	0.000	94	11607	1.00	1.10	
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	83	2713	1.00	0.9185	
80 m-Xylene & p-Xylene	106	12.019	12.033	-0.014	98	6771	1.00	0.8728	
82 o-Xylene	106	12.438	12.438	0.000	96	5474	1.00	0.8110	
83 Styrene	104	12.480	12.480	0.000	91	6779	1.00	2.96	
84 Bromoform	173		12.550				ND	ND	
85 Isopropylbenzene	105	12.703	12.703	0.000	95	16627	1.00	0.8142	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.011	0.000	18	2985	1.00	0.5795	a
88 N-Propylbenzene	91	13.094	13.094	0.000	98	18931	1.00	0.7319	
87 Bromobenzene	156	13.136	13.136	0.000	93	3452	1.00	0.8868	
89 1,1,2,2-Tetrachloroethane	83		13.164				ND	ND	
91 1,3,5-Trimethylbenzene	105	13.248	13.262	-0.014	91	11459	1.00	0.7006	
90 2-Chlorotoluene	91	13.276	13.276	0.000	93	14299	1.00	0.8468	
92 1,2,3-Trichloropropane	110		13.318				ND	ND	
93 trans-1,4-Dichloro-2-buten	53		13.332				ND	ND	
94 Cyclohexanone	55		13.402				ND	ND	
95 4-Chlorotoluene	91	13.430	13.430	0.000	95	12090	1.00	0.8062	
96 tert-Butylbenzene	119	13.583	13.583	0.000	91	10070	1.00	0.7271	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	95	11269	1.00	0.6823	
98 sec-Butylbenzene	105	13.751	13.751	0.000	94	16911	1.00	0.7317	
99 4-Isopropyltoluene	119	13.863	13.863	0.000	95	11823	1.00	0.6703	
100 1,3-Dichlorobenzene	146	14.002	14.016	-0.014	89	7130	1.00	0.9649	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	233991	50.0	50.0	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	46	12975	1.00	0.8382	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	92	8174	1.00	1.11	
103 n-Butylbenzene	134	14.282	14.282	0.000	48	2686	1.00	0.6427	
121 Benzyl chloride	126		14.324				ND	ND	
104 1,2-Dichlorobenzene	146	14.505	14.519	-0.014	90	5961	1.00	1.14	
106 n-Nonyl Aldehyde	57		15.231				ND	ND	
105 1,2-Dibromo-3-Chloropropan	157		15.301				ND	ND	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	94	6619	1.00	0.9846	
108 Hexachlorobutadiene	225	15.888	15.902	-0.014	89	3970	1.00	0.8745	
109 1,2,4-Trichlorobenzene	180	15.958	15.972	-0.014	88	4943	1.00	1.00	
110 Naphthalene	128		16.321				ND	ND	
S 112 Xylenes, Total	106				0			1.68	
111 1,2,3-Trichlorobenzene	180		16.516				ND	ND	
S 113 Trihalomethanes, Total	1				0			2.67	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

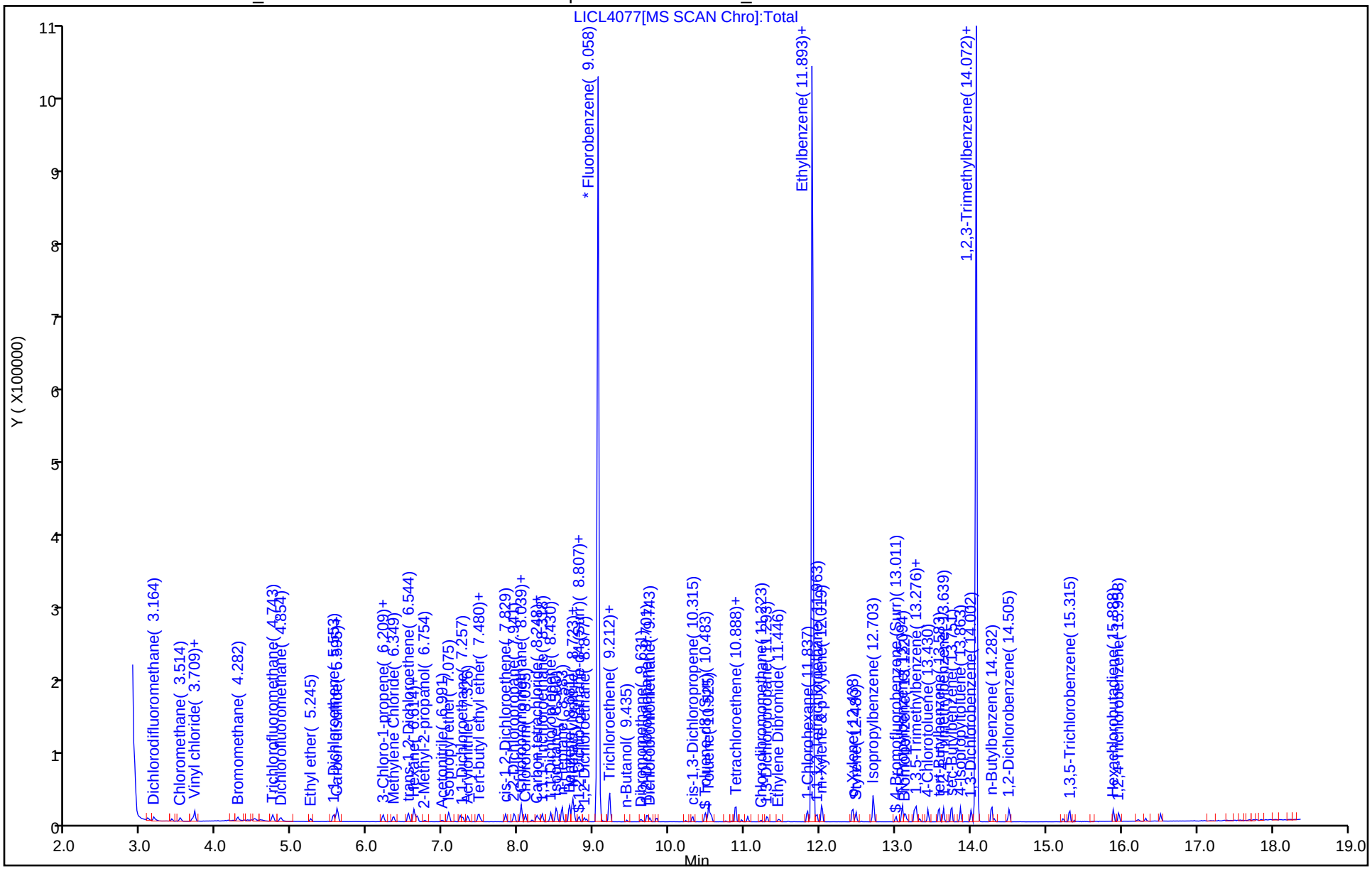
8260 NewWkMix_00319	Amount Added: 0.20	Units: uL	
8260 Surr 25_00096	Amount Added: 0.20	Units: uL	
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 19-Mar-2019 16:06:42 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4077.D

Injection Date:	18-Mar-2019 10:33:30	Instrument ID:	VMSL	Operator ID:	DEK
Lims ID:	IC			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

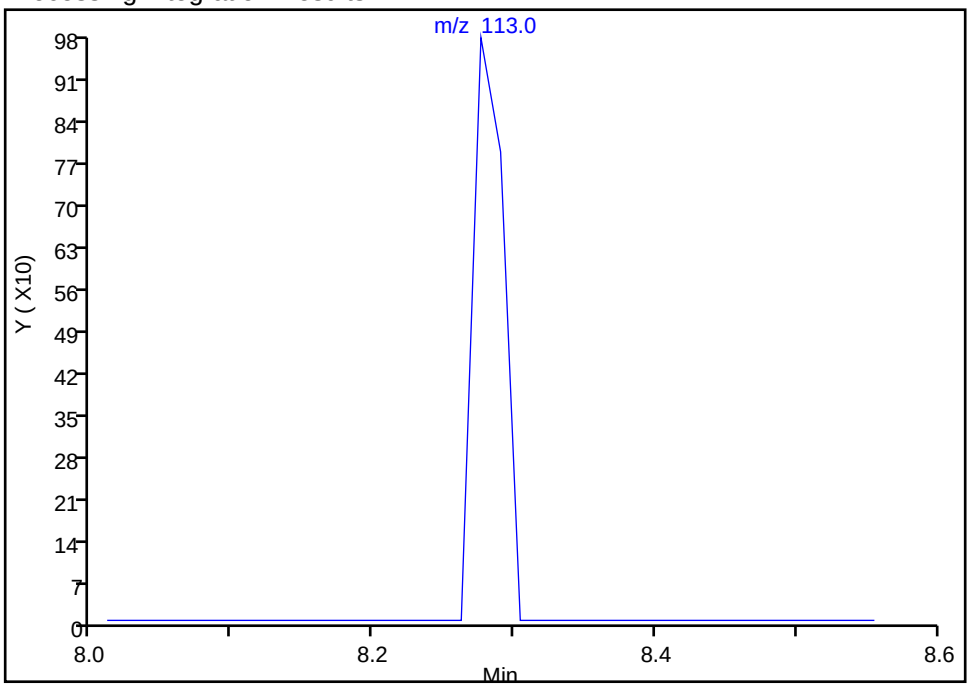
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4077.D
Injection Date: 18-Mar-2019 10:33:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 41 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

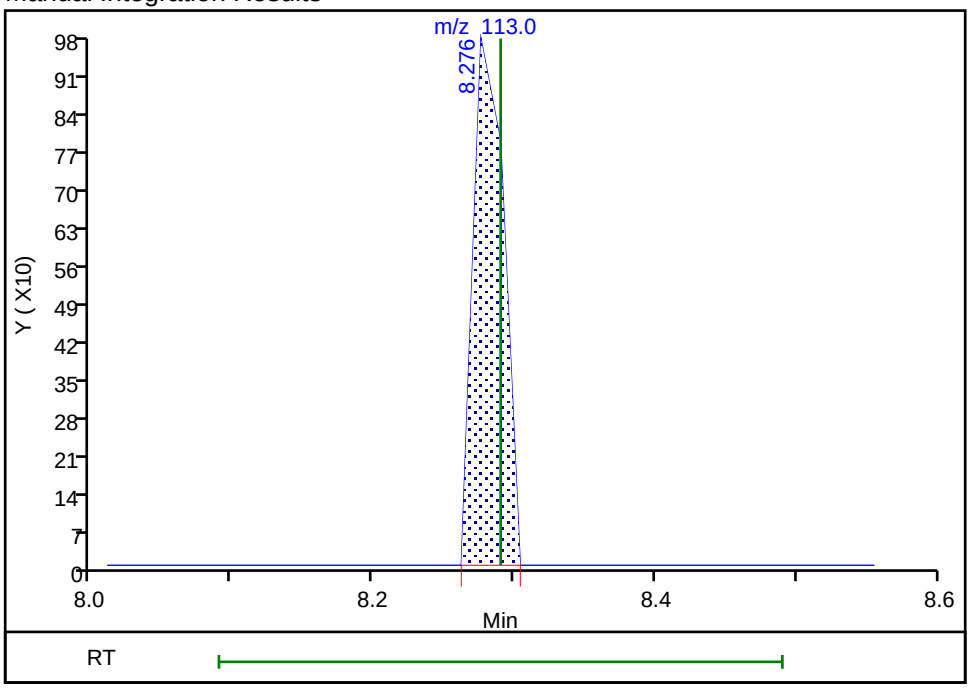
Not Detected
Expected RT: 8.29

Processing Integration Results



Manual Integration Results

RT: 8.28
Area: 1474
Amount: 0.501918
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:14:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

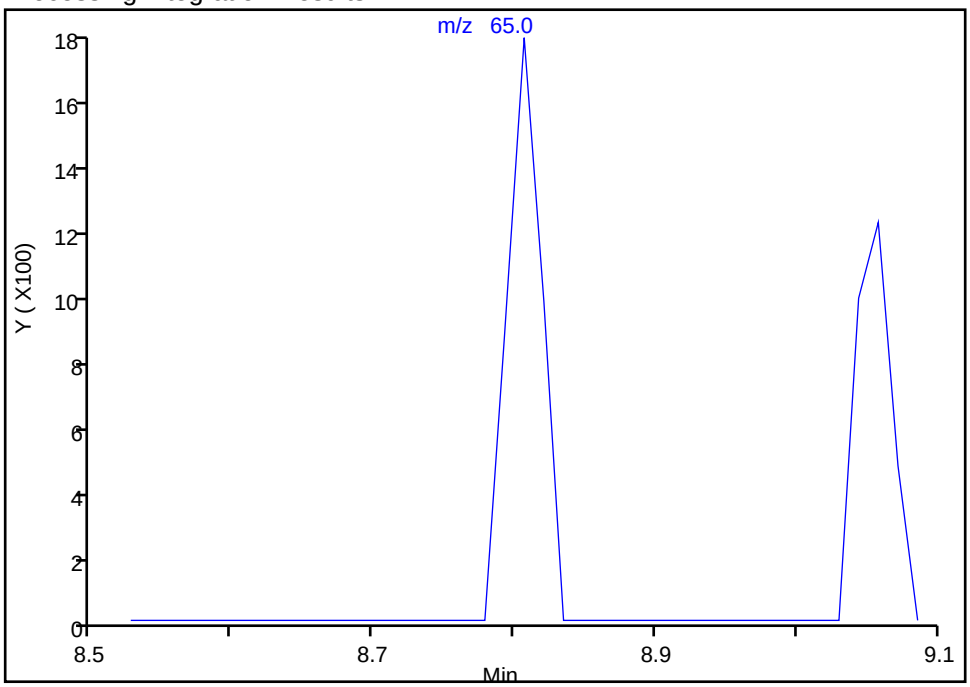
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Injection Date: 18-Mar-2019 10:33:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 47 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

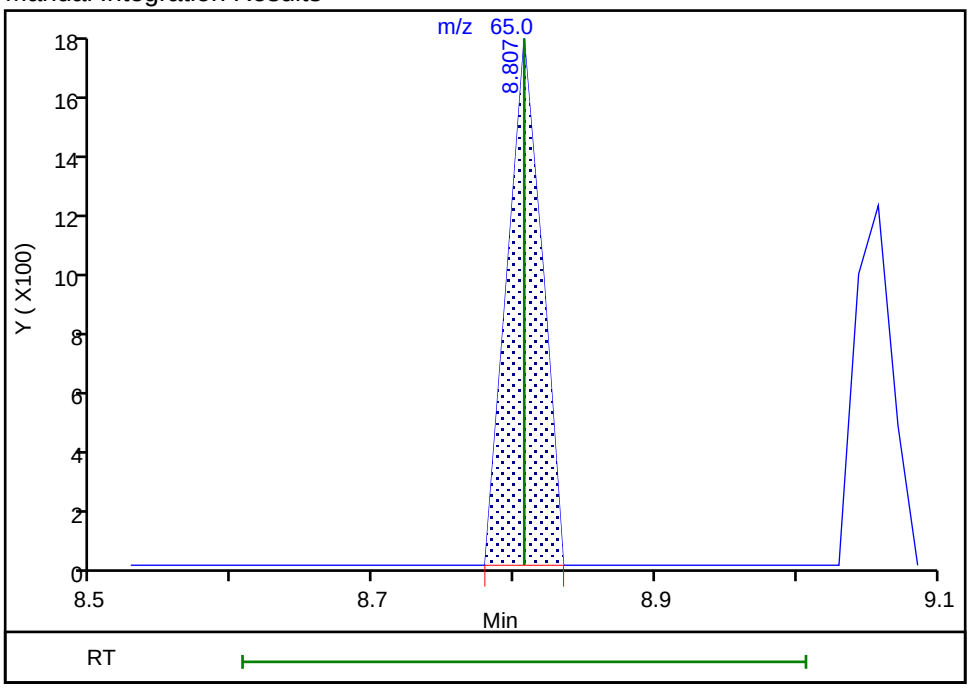
Processing Integration Results

Not Detected
Expected RT: 8.81



Manual Integration Results

RT: 8.81
Area: 2978
Amount: 0.778867
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:14:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

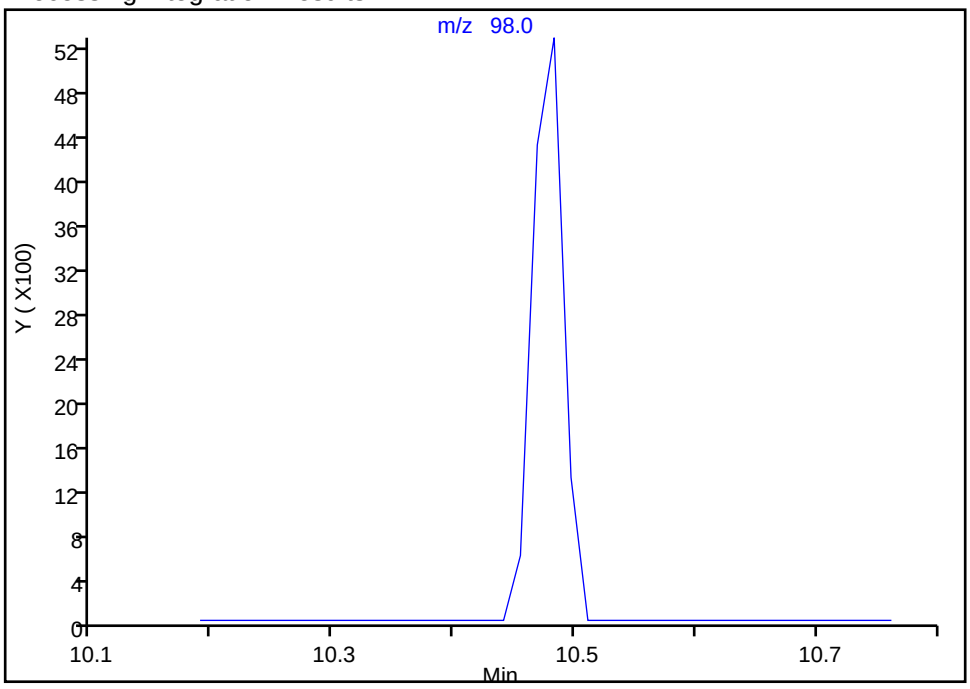
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Injection Date: 18-Mar-2019 10:33:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 62 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

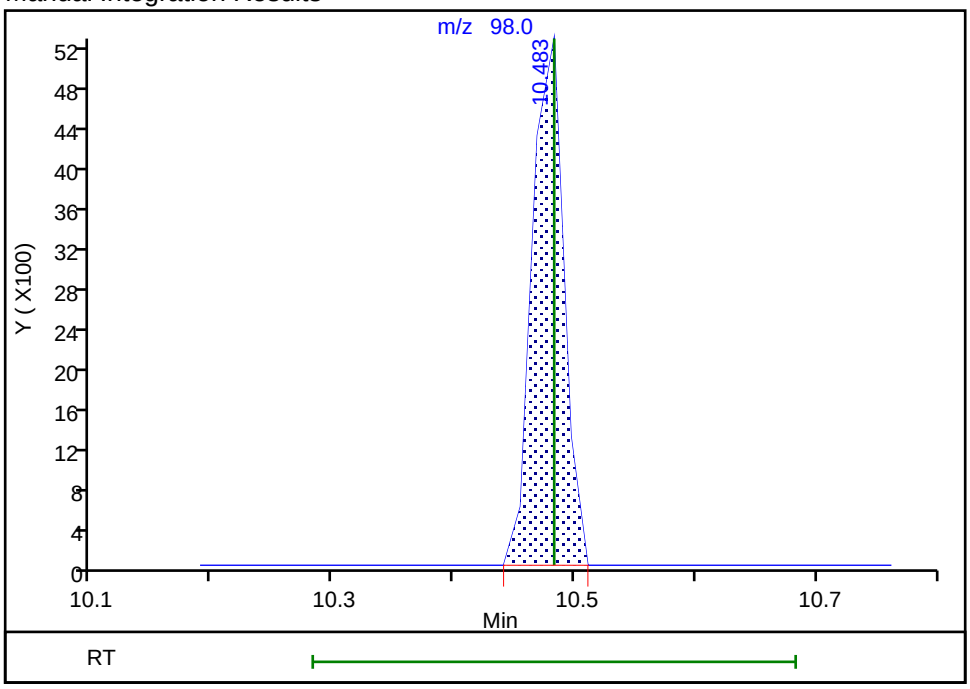
Not Detected
Expected RT: 10.48

Processing Integration Results



Manual Integration Results

RT: 10.48
Area: 9516
Amount: 0.621007
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:14:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

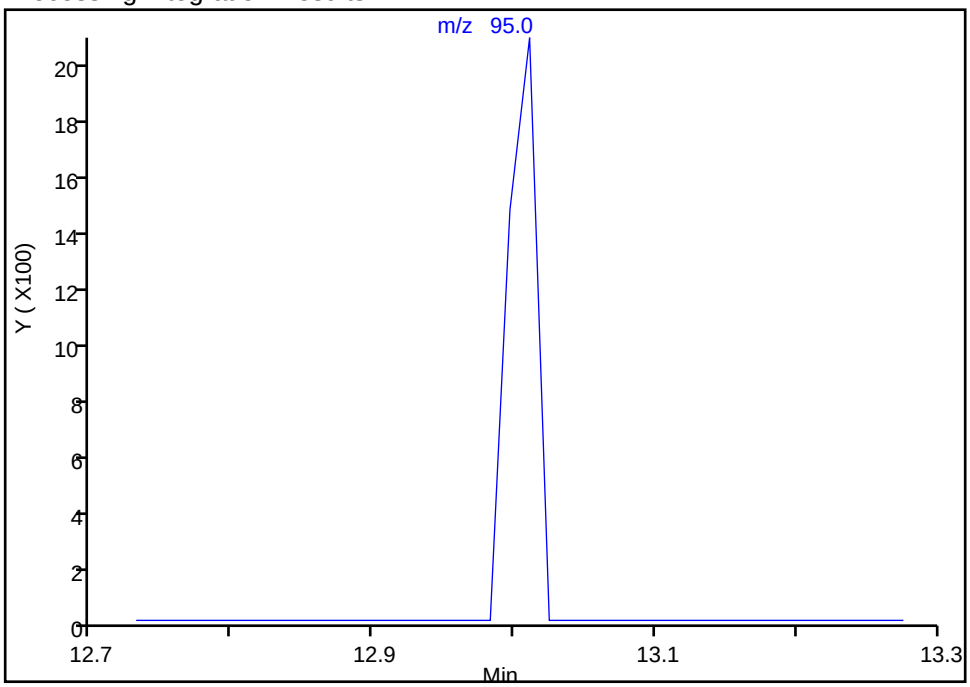
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Injection Date: 18-Mar-2019 10:33:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 86 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 1

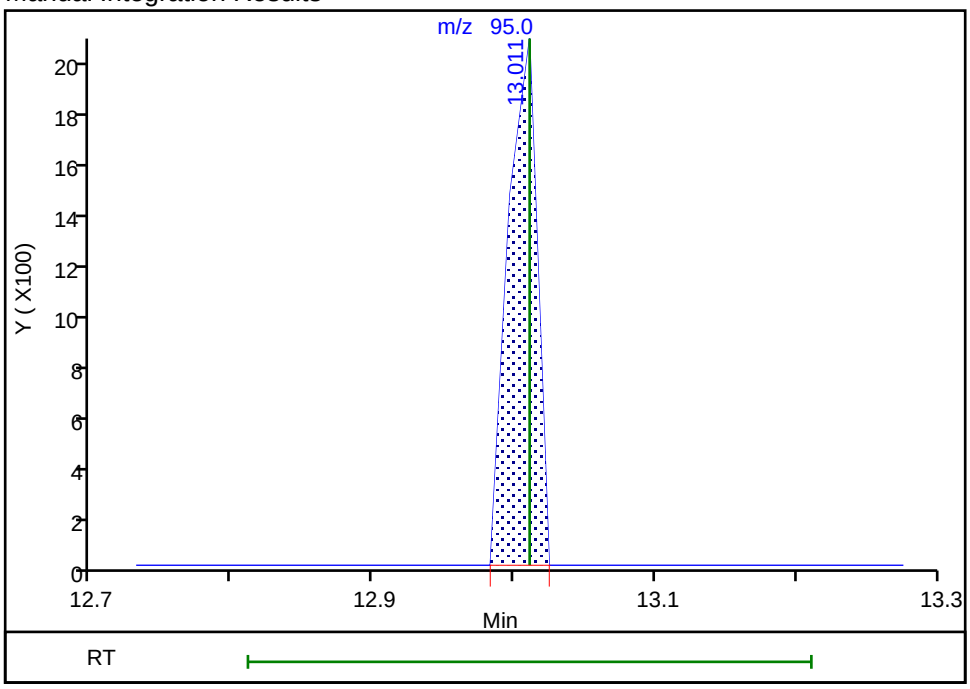
Not Detected
Expected RT: 13.01

Processing Integration Results



Manual Integration Results

RT: 13.01
Area: 2985
Amount: 0.579534
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:15:12
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Report Date: 19-Mar-2019 16:06:44 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4078.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 18-Mar-2019 10:58:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: DEK Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 19-Mar-2019 16:06:44 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0338

First Level Reviewer: aguk Date: 18-Mar-2019 14:17:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	98	21757	2.50	3.26	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.402	3.402	0.000	92	4119	2.50	2.62	a
3 Chloromethane	50	3.514	3.514	0.000	98	17047	2.50	3.12	
4 Vinyl chloride	62	3.681	3.681	0.000	96	17249	2.50	2.95	
122 Butadiene	39	3.709	3.709	0.000	93	15294	2.50	2.95	
5 Bromomethane	94	4.282	4.282	0.000	92	10822	2.50	3.42	
6 Chloroethane	64	4.505	4.491	0.014	95	9919	2.50	2.95	
7 Trichlorofluoromethane	101	4.743	4.743	0.000	97	24845	2.50	3.07	
123 Dichlorofluoromethane	67	4.854	4.854	0.000	95	26771	2.50	2.92	
8 Ethyl ether	74	5.245	5.245	0.000	87	5263	2.50	2.75	
11 Ethanol	45	5.469	5.483	-0.014	91	2833	100.0	146.4	
9 1,1-Dichloroethene	96	5.553	5.553	0.000	96	11133	2.50	2.77	
10 Carbon disulfide	76	5.595	5.595	0.000	99	43946	2.50	2.82	
12 1,1,2-Trichloro-1,2,2-trif	151	5.595	5.609	-0.014	91	9525	2.50	2.96	
13 Iodomethane	142	5.776	5.762	0.014	16	701	2.50	8.22	a
S 26 1,2-Dichloroethene, Total	96				0			5.58	
14 Acrolein	56	6.042	6.042	0.000	40	1319	12.5	12.8	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	90	13666	2.50	2.77	
16 Isopropyl alcohol	45	6.223	6.223	0.000	96	6655	25.0	56.0	
17 Methylene Chloride	84	6.349	6.349	0.000	89	11777	2.50	2.91	
18 Acetone	43	6.419	6.419	0.000	86	1849	2.50	3.53	a
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	97	12587	2.50	2.81	
20 Methyl acetate	74	6.558	6.544	0.014	90	1492	12.5	11.6	
21 Hexane	86	6.614	6.614	0.000	94	3684	2.50	2.26	
22 Methyl tert-butyl ether	73	6.656	6.656	0.000	85	24041	2.50	2.65	
23 2-Methyl-2-propanol	59	6.754	6.768	-0.014	96	8442	25.0	42.5	
24 Acetonitrile	41	6.991	6.991	0.000	97	7100	25.0	34.7	
25 Isopropyl ether	45	7.075	7.075	0.000	87	27576	2.50	2.52	
27 2-Chloro-1,3-butadiene	53	7.229	7.229	0.000	90	15660	2.50	2.32	
28 1,1-Dichloroethane	63	7.257	7.271	-0.014	95	24120	2.50	2.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.326	7.326	0.000	100	17693	25.0	28.6	
30 Tert-butyl ethyl ether	59	7.480	7.480	0.000	96	25782	2.50	2.46	
31 Vinyl acetate	43	7.508	7.508	0.000	97	13347	2.50	2.53	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	82	12364	2.50	2.77	
33 2,2-Dichloropropane	77	7.941	7.955	-0.014	89	22365	2.50	2.73	
34 Cyclohexane	84	8.039	8.039	0.000	89	21032	2.50	2.47	
35 Chlorobromomethane	128	8.039	8.039	0.000	57	4043	2.50	3.12	
36 Chloroform	83	8.095	8.095	0.000	92	22990	2.50	2.88	
39 Ethyl acetate	45	8.178	8.178	0.000	64	1217	5.00	8.05	
37 Carbon tetrachloride	117	8.248	8.248	0.000	98	15186	2.50	2.60	
38 Tetrahydrofuran	71	8.276	8.262	0.014	31	1058	5.00	8.70	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.290	0.000	90	7312	2.50	2.40	a
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	98	21501	2.50	2.79	
43 2-Butanone (MEK)	43	8.402	8.402	0.000	90	2437	2.50	3.10	a
42 1,1-Dichloropropene	75	8.430	8.430	0.000	95	19190	2.50	2.59	
125 Isooctane	57	8.500	8.514	-0.014	96	49668	2.50	2.49	
117 n-Heptane	43	8.583	8.583	0.000	82	20955	2.50	2.49	
44 Benzene	78	8.681	8.681	0.000	94	57730	2.50	2.79	
45 Propionitrile	54	8.709	8.709	0.000	89	6921	25.0	28.4	
46 Methacrylonitrile	41	8.723	8.723	0.000	92	36636	25.0	28.7	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	98	25316	2.50	2.49	
50 Isobutyl alcohol	42	8.807	8.807	0.000	86	4654	62.5	147.2	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	98	11650	2.50	2.93	a
49 1,2-Dichloroethane	62	8.877	8.877	0.000	98	13907	2.50	2.94	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	795397	50.0	50.0	
52 Methylcyclohexane	55	9.212	9.212	0.000	88	20279	2.50	2.73	
53 Trichloroethene	95	9.212	9.212	0.000	64	14032	2.50	2.81	
54 n-Butanol	56	9.435	9.435	0.000	89	5762	62.5	181.8	
55 Dibromomethane	93	9.631	9.631	0.000	95	4984	2.50	2.93	
124 Ethyl acrylate	55	9.645	9.645	0.000	92	5710	2.50	4.90	a
56 1,2-Dichloropropane	63	9.715	9.715	0.000	92	11350	2.50	2.77	
57 Dichlorobromomethane	83	9.743	9.743	0.000	97	13531	2.50	2.61	
58 Methyl methacrylate	69	9.840	9.840	0.000	89	7171	5.00	9.12	
59 1,4-Dioxane	88	9.924	9.924	0.000	19	1031	50.0	49.7	
60 2-Chloroethyl vinyl ether	63	10.217	10.217	0.000	83	2978	2.50	4.51	a
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	93	14550	2.50	2.44	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	39720	2.50	2.50	a
63 Toluene	92	10.525	10.525	0.000	98	30970	2.50	2.59	
64 2-Nitropropane	43	10.748	10.748	0.000	88	2098	5.00	9.70	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	94	3948	2.50	4.86	
65 Tetrachloroethene	164	10.888	10.888	0.000	94	11155	2.50	2.83	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	83	11710	2.50	2.33	
69 Ethyl methacrylate	69	10.958	10.972	-0.014	87	5972	2.50	5.19	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	92	5900	2.50	2.71	
70 Chlorodibromomethane	129	11.223	11.223	0.000	88	5485	2.50	2.44	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	90	14014	2.50	2.86	
119 n-Butyl acetate	43	11.446	11.446	0.000	97	6571	2.50	4.97	a
72 Ethylene Dibromide	107	11.474	11.474	0.000	95	5470	2.50	2.64	
74 2-Hexanone	43	11.572	11.572	0.000	91	2896	2.50	5.34	a
S 73 1,3-Dichloropropene, Total	75				0			4.77	
75 1-Chlorohexane	91	11.838	11.838	0.000	96	14733	2.50	2.08	
* 76 Chlorobenzene-d5	117	11.893	11.907	-0.014	93	512743	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.907	11.907	0.000	52	64105	2.50	2.68	
77 Chlorobenzene	112	11.921	11.921	0.000	90	31871	2.50	2.92	
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	90	8585	2.50	2.80	
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	99	20619	2.50	2.56	
82 o-Xylene	106	12.438	12.438	0.000	98	16854	2.50	2.40	
83 Styrene	104	12.480	12.480	0.000	93	21940	2.50	4.09	
84 Bromoform	173	12.550	12.550	0.000	92	3112	2.50	4.67	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	50625	2.50	2.34	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.011	0.000	87	12780	2.50	2.34	a
88 N-Propylbenzene	91	13.094	13.094	0.000	99	61554	2.50	2.24	
87 Bromobenzene	156	13.136	13.136	0.000	95	11152	2.50	2.70	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	92	8455	2.50	3.06	a
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	92	37791	2.50	2.18	
90 2-Chlorotoluene	91	13.276	13.276	0.000	93	45571	2.50	2.54	
92 1,2,3-Trichloropropane	110	13.318	13.318	0.000	85	1856	2.50	2.34	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	68	1855	2.50	2.62	a
94 Cyclohexanone	55	13.402	13.402	0.000	76	2675	25.0	70.3	
95 4-Chlorotoluene	91	13.430	13.430	0.000	98	39185	2.50	2.46	
96 tert-Butylbenzene	119	13.583	13.583	0.000	92	33271	2.50	2.27	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	98	39502	2.50	2.26	
98 sec-Butylbenzene	105	13.751	13.751	0.000	95	57440	2.50	2.34	
99 4-Isopropyltoluene	119	13.863	13.863	0.000	96	40698	2.50	2.18	
100 1,3-Dichlorobenzene	146	14.002	14.016	-0.014	92	21603	2.50	2.76	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	54	42746	2.50	2.60	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	248152	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	90	23304	2.50	2.99	
103 n-Butylbenzene	134	14.282	14.282	0.000	97	10604	2.50	2.39	
121 Benzyl chloride	126	14.310	14.324	-0.014	85	1861	2.50	4.88	
104 1,2-Dichlorobenzene	146	14.505	14.519	-0.014	93	19384	2.50	3.12	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	68	5098	2.50	7.00	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	1	955	2.50	5.17	a
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	95	20399	2.50	2.86	
108 Hexachlorobutadiene	225	15.888	15.902	-0.014	94	13810	2.50	2.87	
109 1,2,4-Trichlorobenzene	180	15.958	15.972	-0.014	92	15285	2.50	2.91	
110 Naphthalene	128	16.321	16.321	0.000	97	15150	2.50	2.67	
S 112 Xylenes, Total	106				0			4.96	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	93	12358	2.50	2.93	
S 113 Trihalomethanes, Total	1				0			12.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

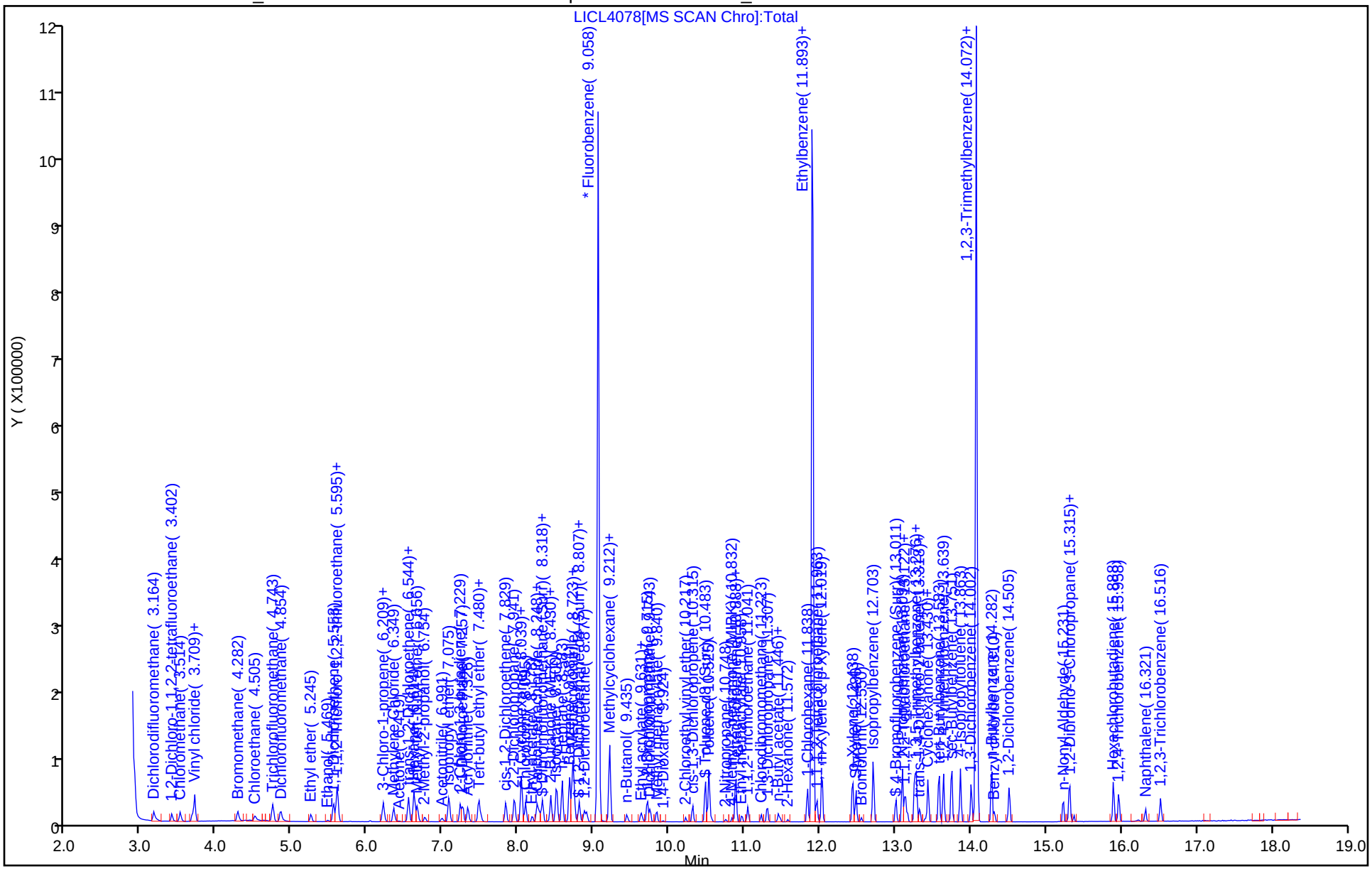
8260 NewWkMix_00319	Amount Added: 0.50	Units: uL	
8260 Surr 25_00096	Amount Added: 0.50	Units: uL	
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 19-Mar-2019 16:06:44 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4078.D

Injection Date:	18-Mar-2019 10:58:30	Instrument ID:	VMSL	Operator ID:	DEK
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

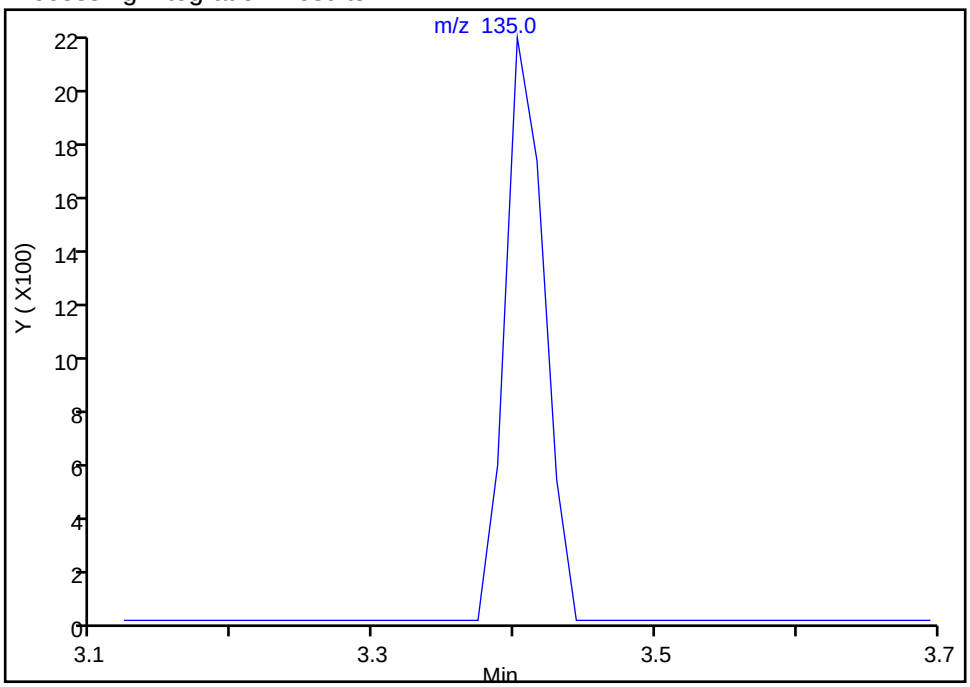
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Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

2 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Signal: 1

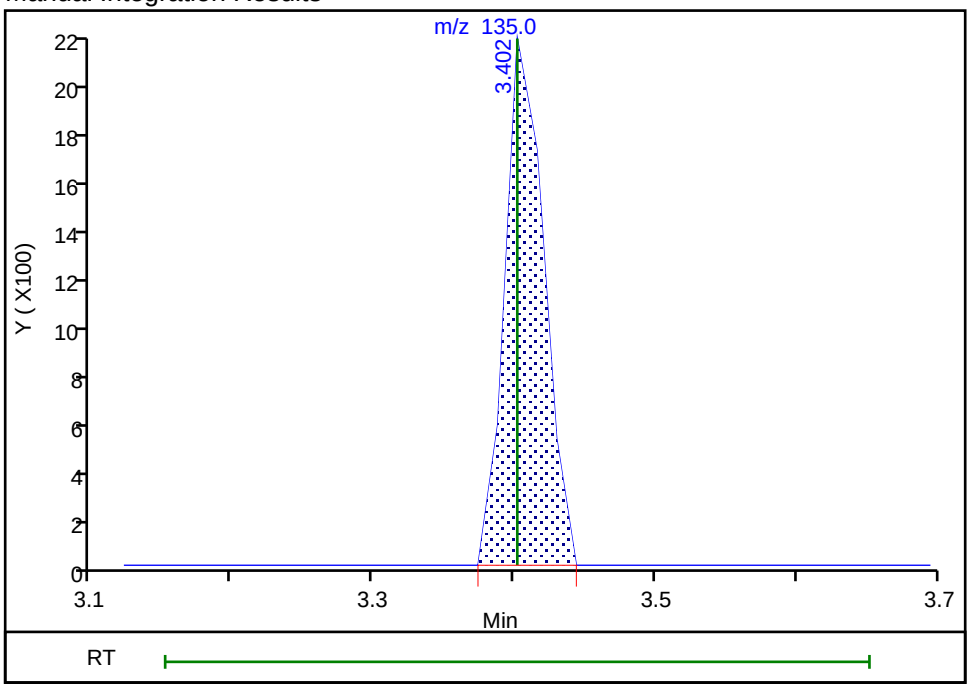
Not Detected
Expected RT: 3.40

Processing Integration Results



Manual Integration Results

RT: 3.40
Area: 4119
Amount: 2.615405
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:16:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

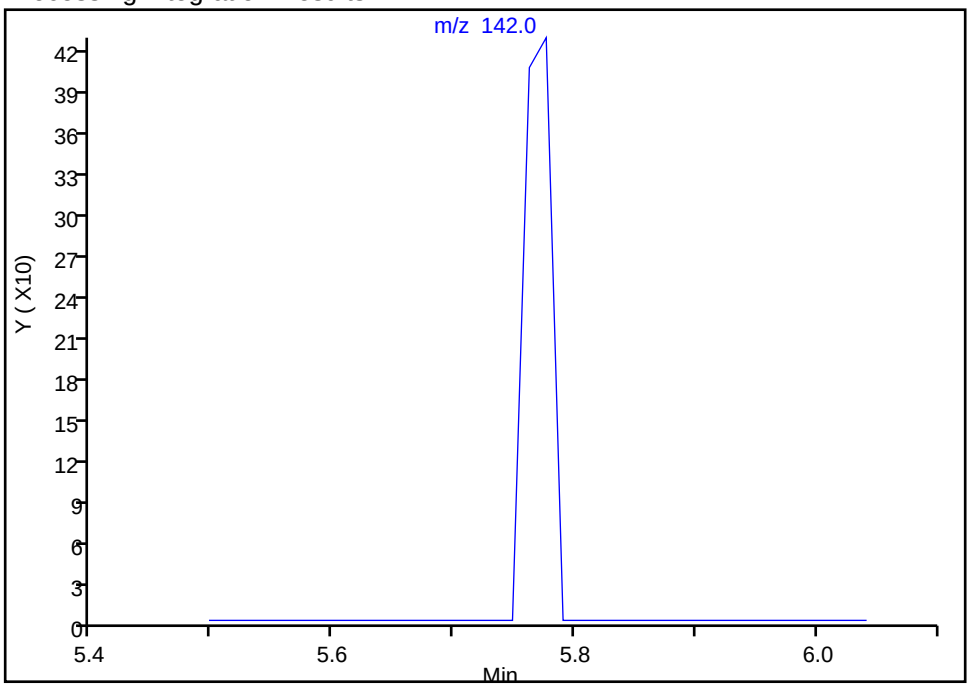
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Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

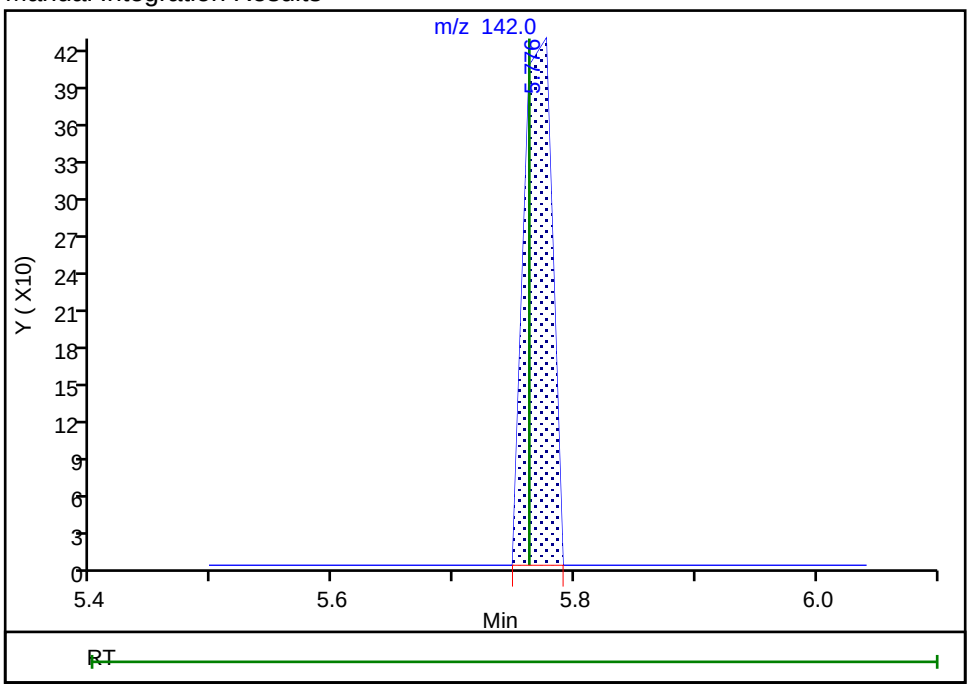
Not Detected
Expected RT: 5.76

Processing Integration Results



Manual Integration Results

RT: 5.78
Area: 701
Amount: 8.220222
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:16:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

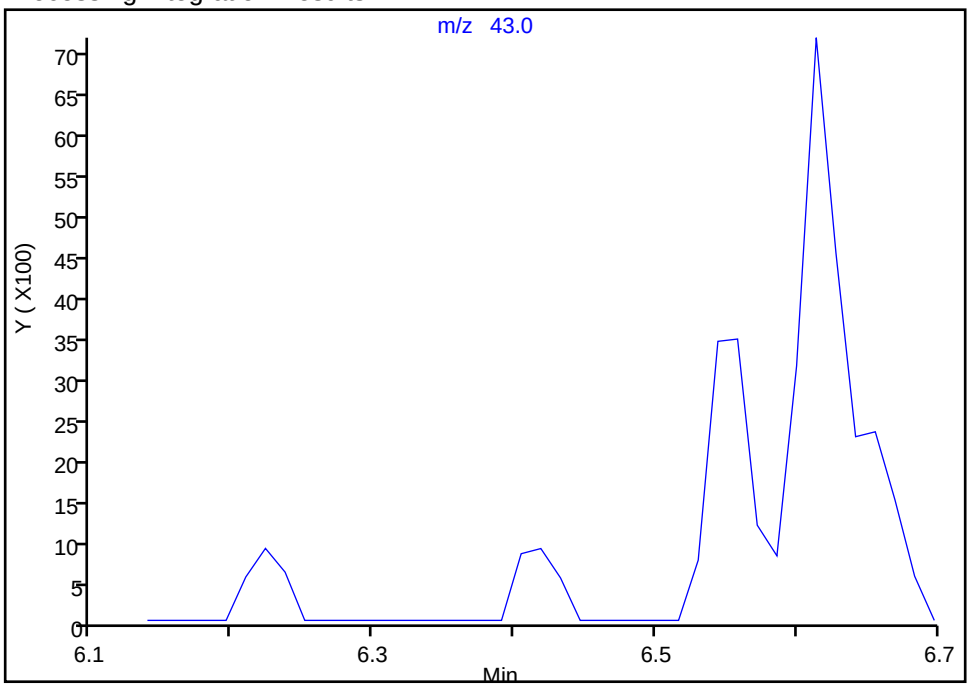
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Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

18 Acetone, CAS: 67-64-1

Signal: 1

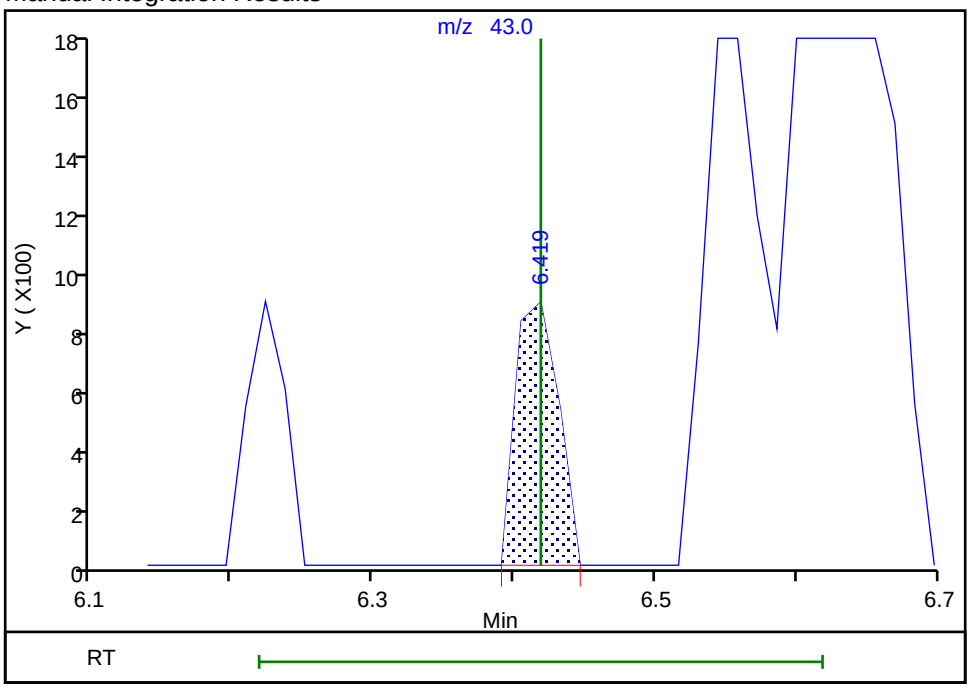
Not Detected
Expected RT: 6.42

Processing Integration Results



Manual Integration Results

RT: 6.42
Area: 1849
Amount: 3.526126
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:16:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

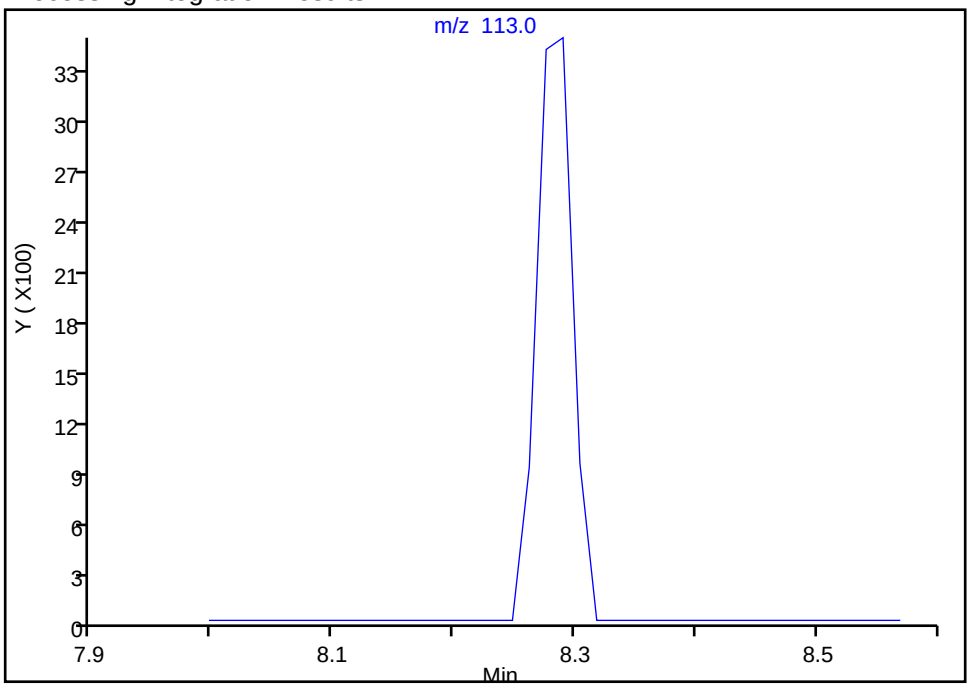
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Injection Date:	18-Mar-2019 10:58:30	Instrument ID:	VMSL		
Lims ID:	IC				
Client ID:					
Operator ID:	DEK	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

$ 41 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

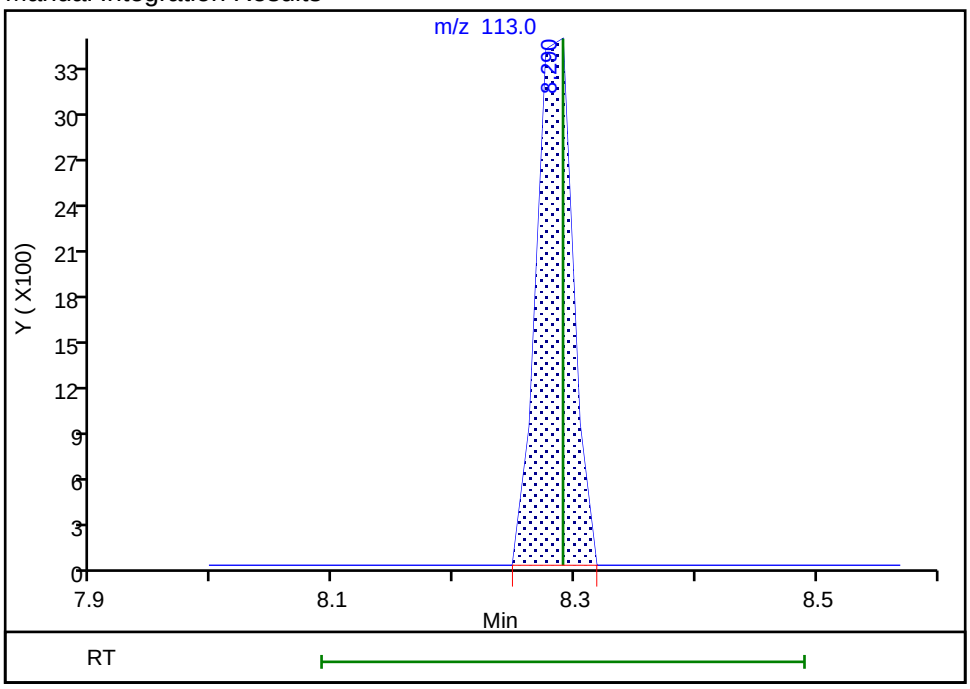
Not Detected
Expected RT: 8.29

Processing Integration Results



Manual Integration Results

RT: 8.29
Area: 7312
Amount: 2.396246
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:16:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

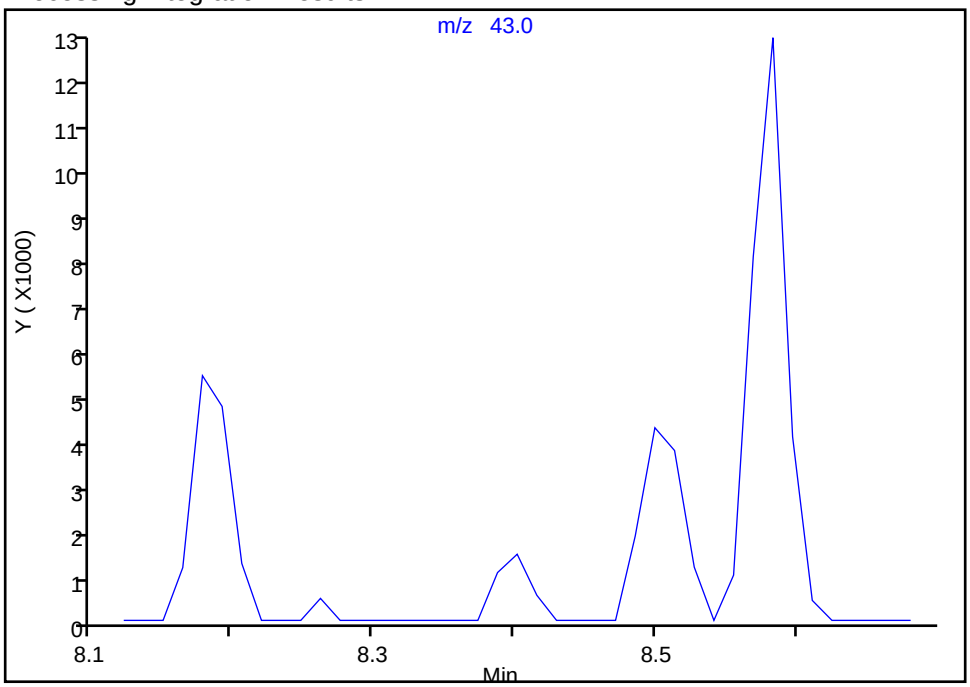
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Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

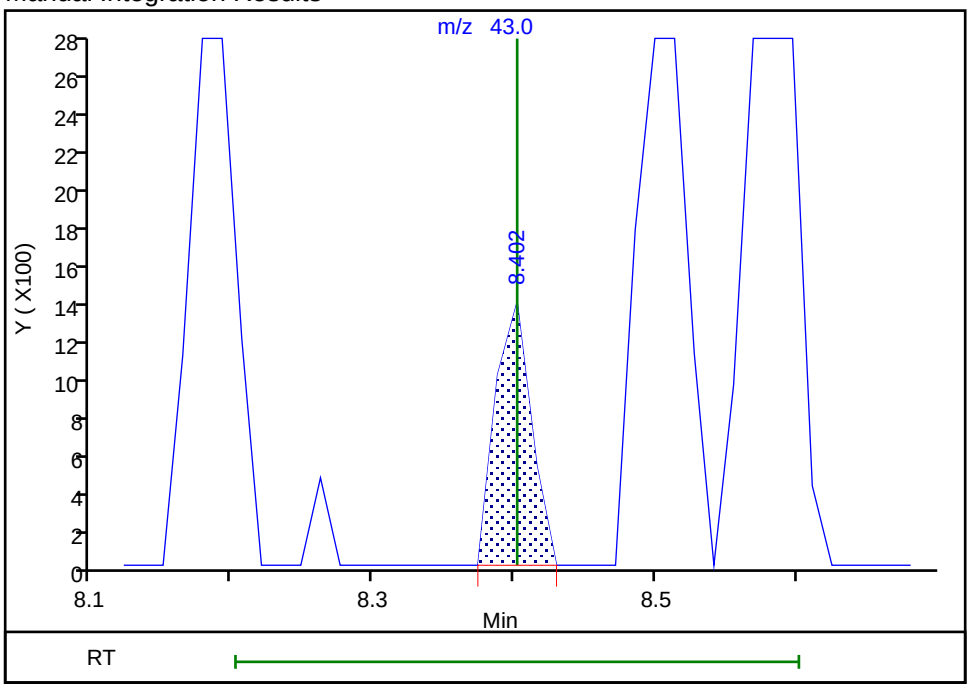
Not Detected
Expected RT: 8.40

Processing Integration Results



Manual Integration Results

RT: 8.40
Area: 2437
Amount: 3.101246
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:16:34
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

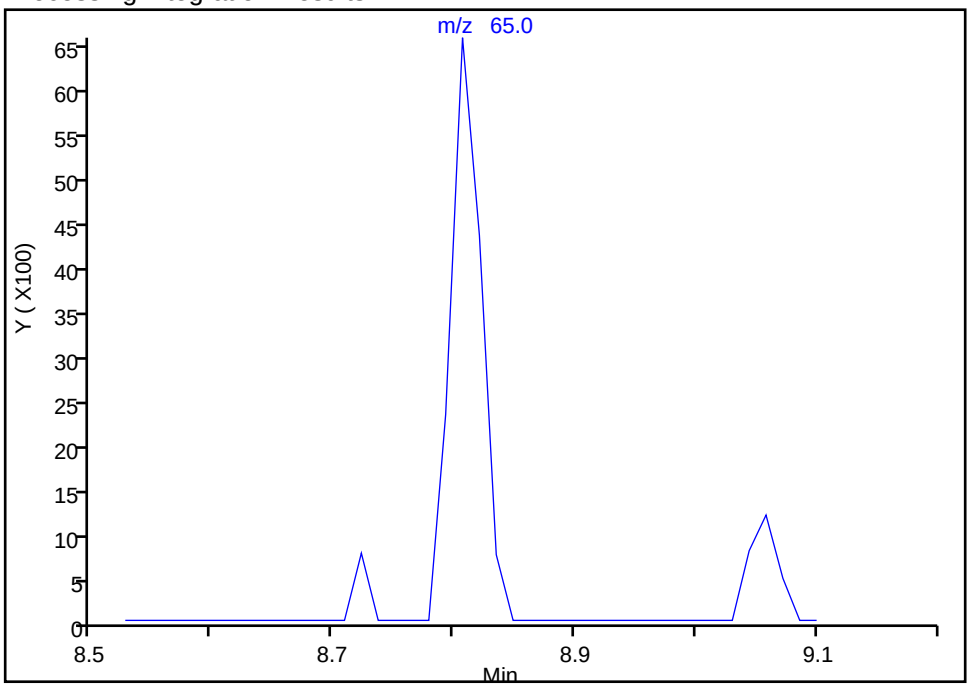
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Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 47 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

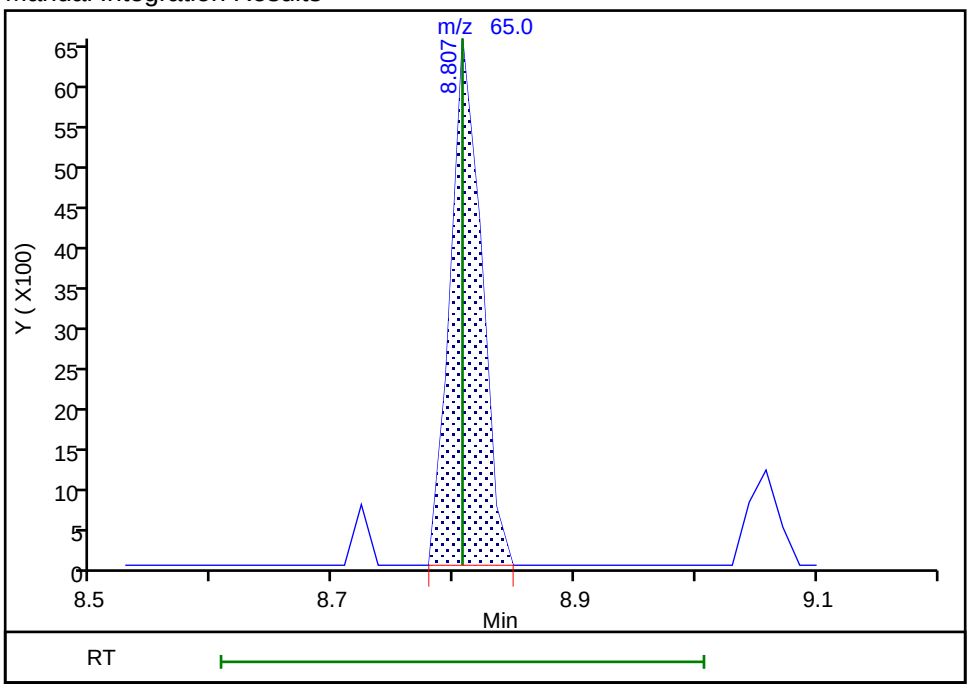
Processing Integration Results

Not Detected
Expected RT: 8.81



Manual Integration Results

RT: 8.81
Area: 11650
Amount: 2.932405
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:16:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

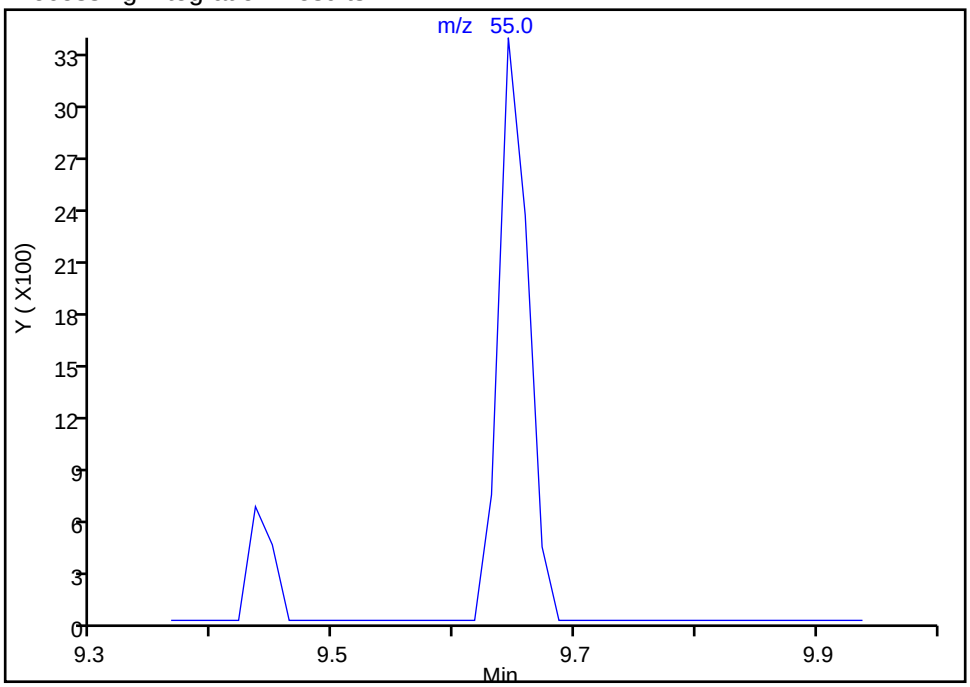
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Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

124 Ethyl acrylate, CAS: 140-88-5

Signal: 1

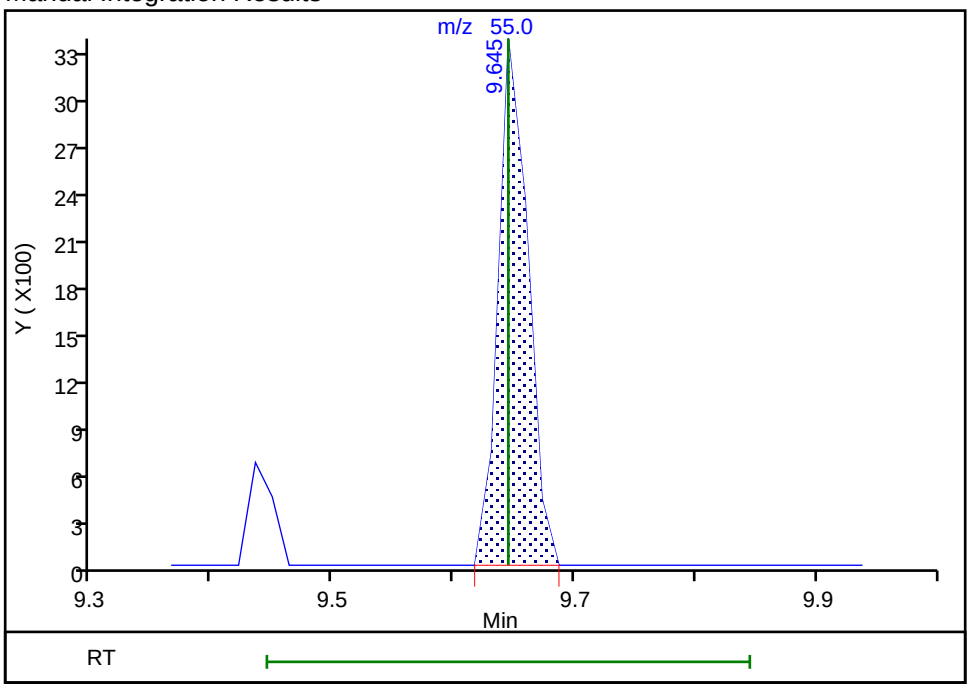
Not Detected
Expected RT: 9.64

Processing Integration Results



Manual Integration Results

RT: 9.64
Area: 5710
Amount: 4.896891
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:16:54
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

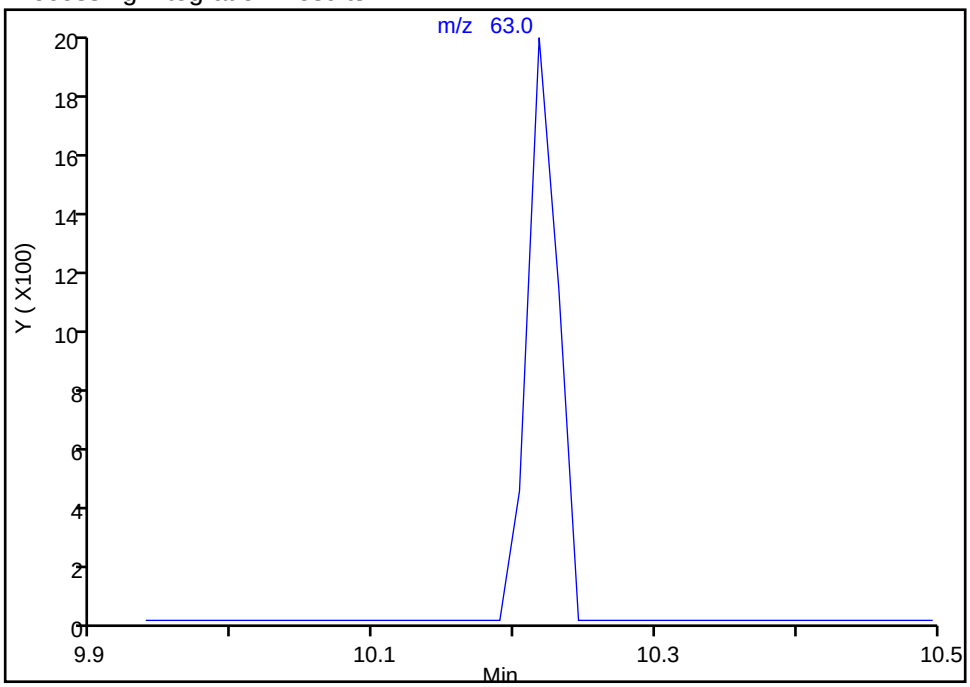
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Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

60 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

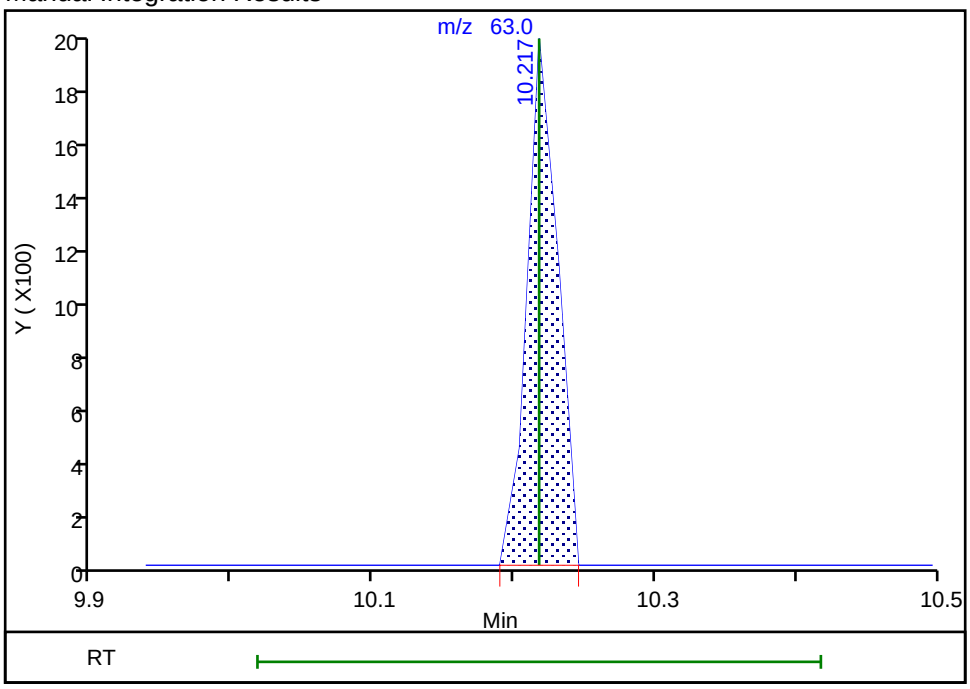
Not Detected
Expected RT: 10.22

Processing Integration Results



Manual Integration Results

RT: 10.22
Area: 2978
Amount: 4.513404
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:17:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

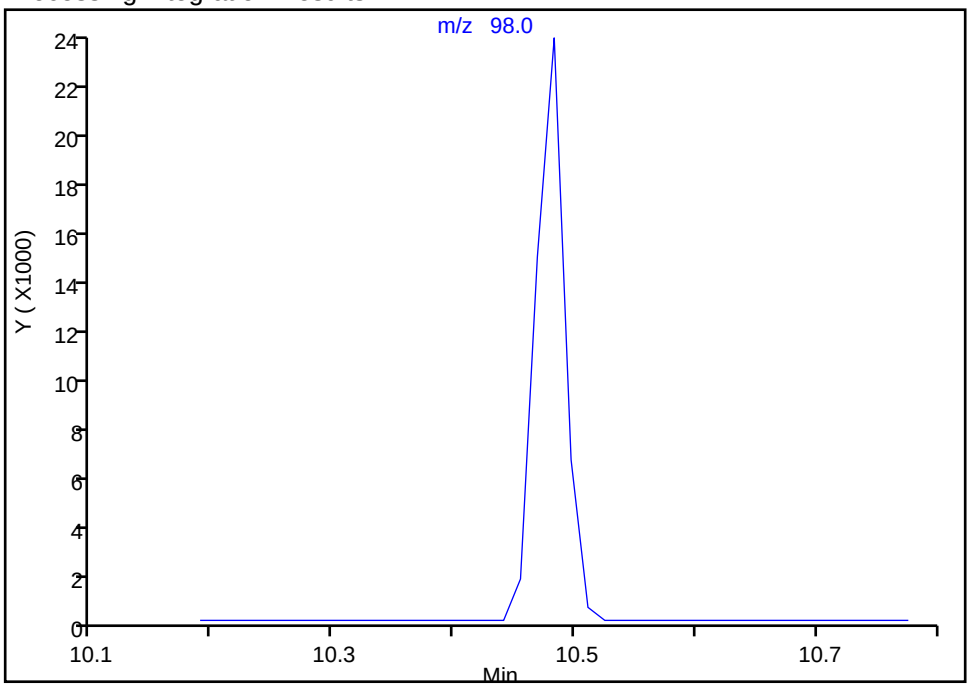
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Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 62 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

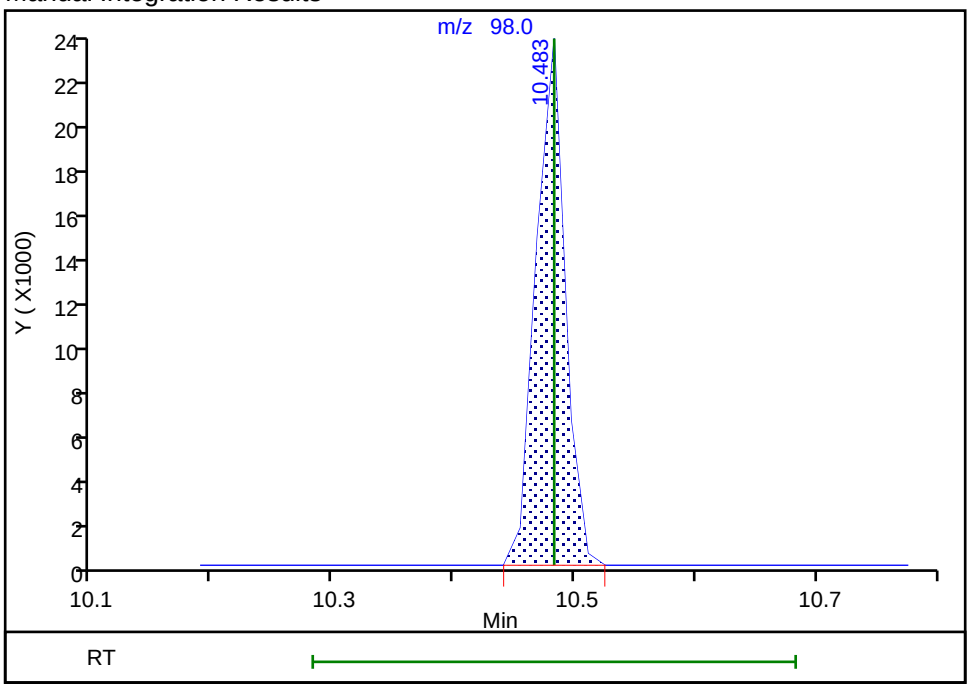
Not Detected
Expected RT: 10.48

Processing Integration Results



Manual Integration Results

RT: 10.48
Area: 39720
Amount: 2.495980
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:17:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

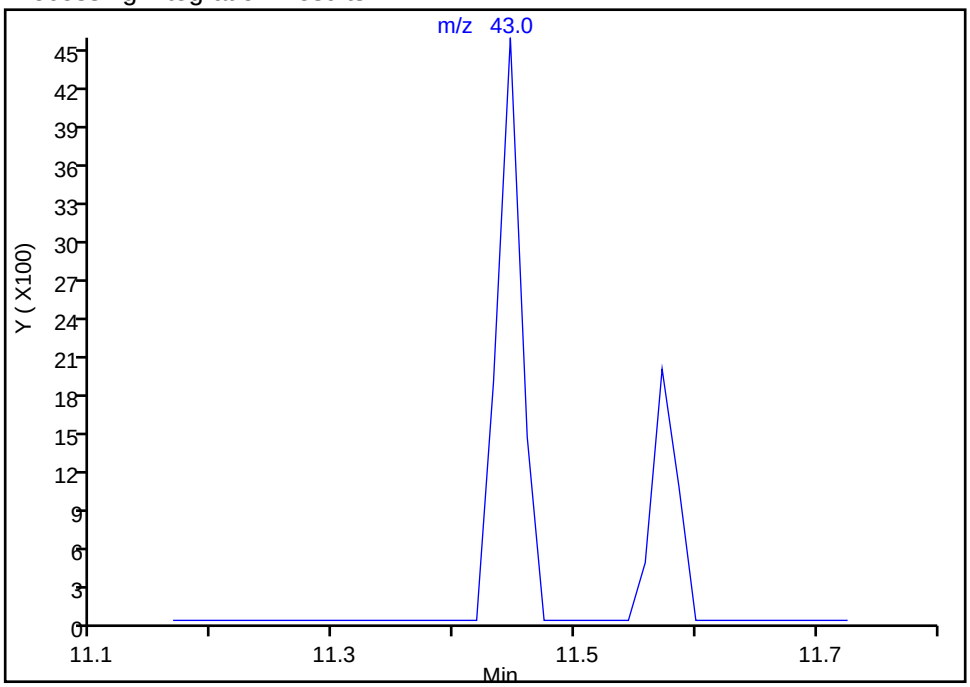
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4078.D
Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

119 n-Butyl acetate, CAS: 123-86-4

Signal: 1

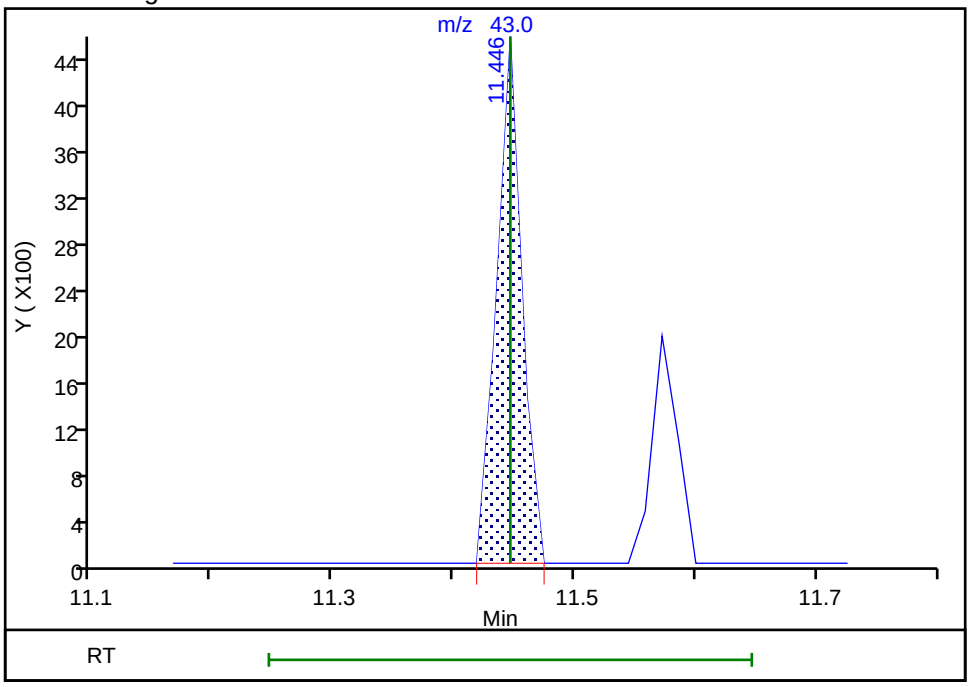
Not Detected
Expected RT: 11.45

Processing Integration Results



Manual Integration Results

RT: 11.45
Area: 6571
Amount: 4.966768
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:17:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

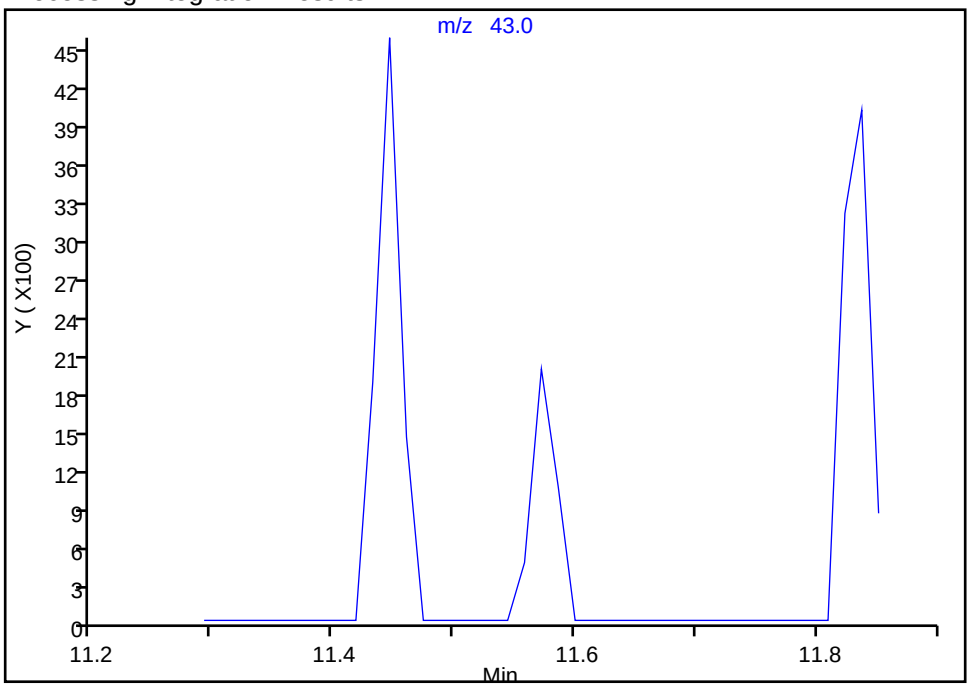
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Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

74 2-Hexanone, CAS: 591-78-6

Signal: 1

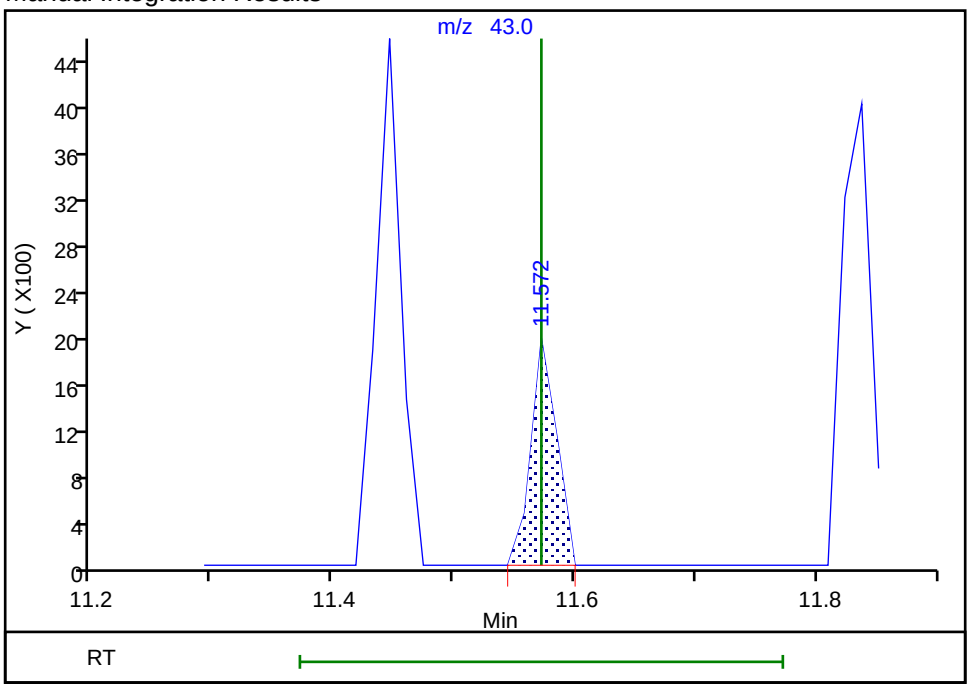
Not Detected
Expected RT: 11.57

Processing Integration Results



Manual Integration Results

RT: 11.57
Area: 2896
Amount: 5.341651
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:17:20
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

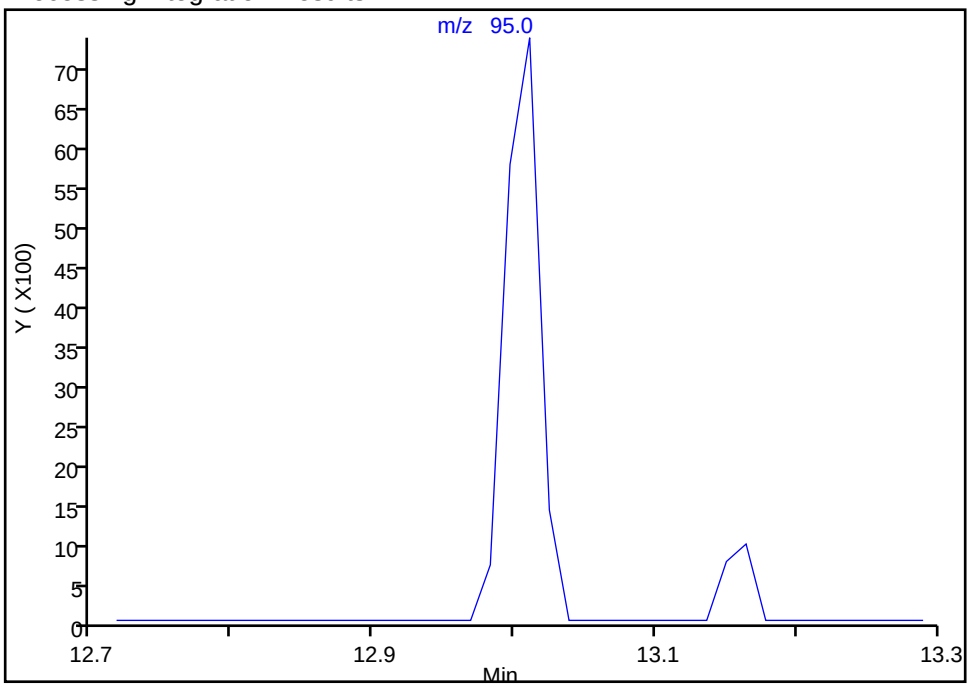
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4078.D
Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 86 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 1

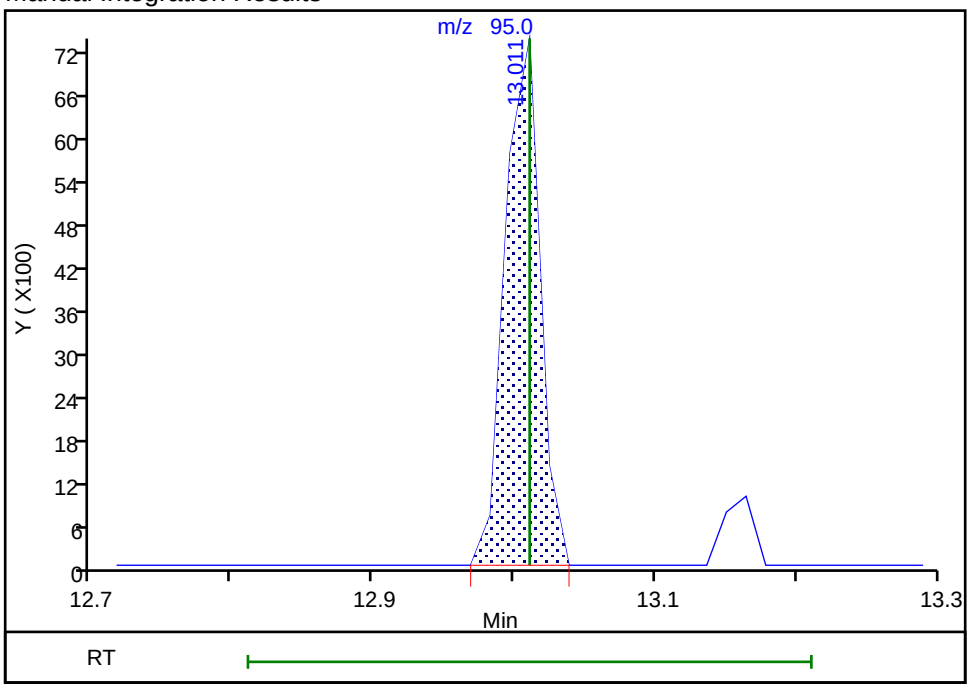
Processing Integration Results

Not Detected
Expected RT: 13.01



Manual Integration Results

RT: 13.01
Area: 12780
Amount: 2.339627
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:17:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

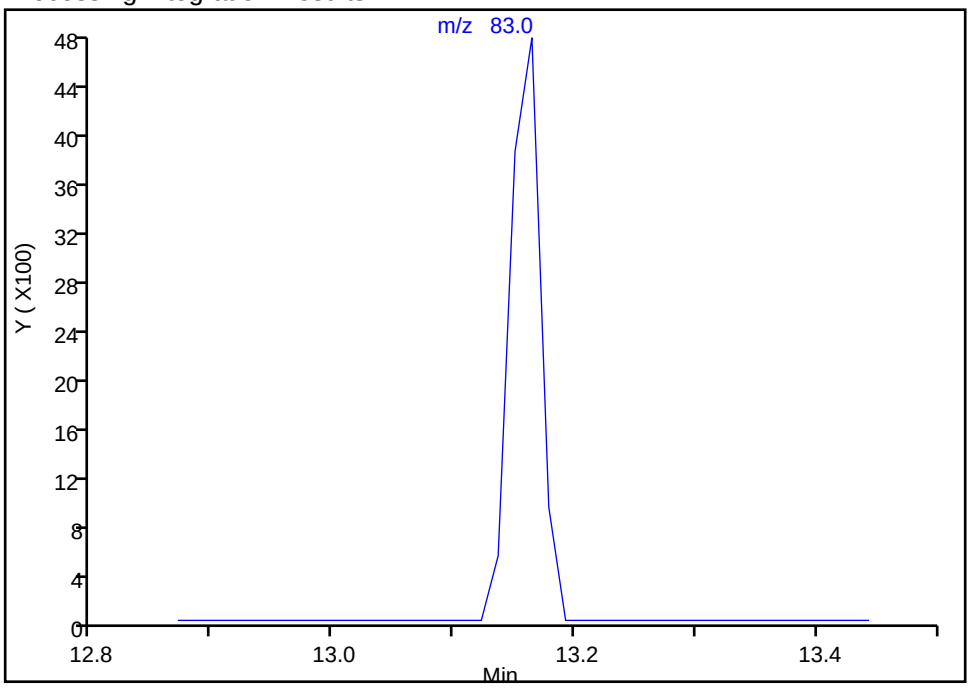
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Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

89 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

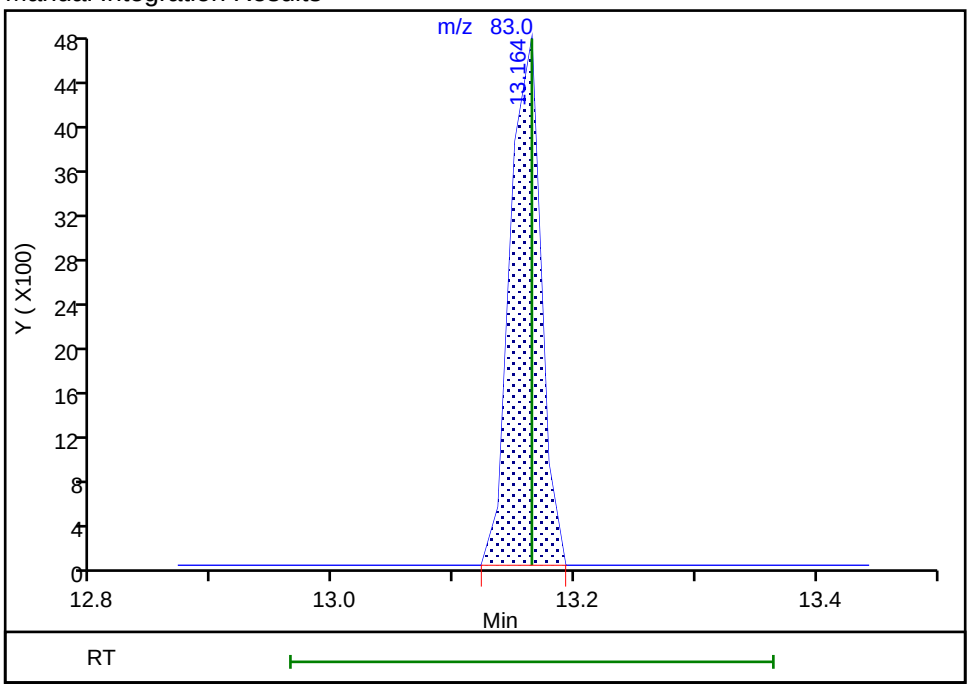
Not Detected
Expected RT: 13.16

Processing Integration Results



Manual Integration Results

RT: 13.16
Area: 8455
Amount: 3.060175
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:17:33
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

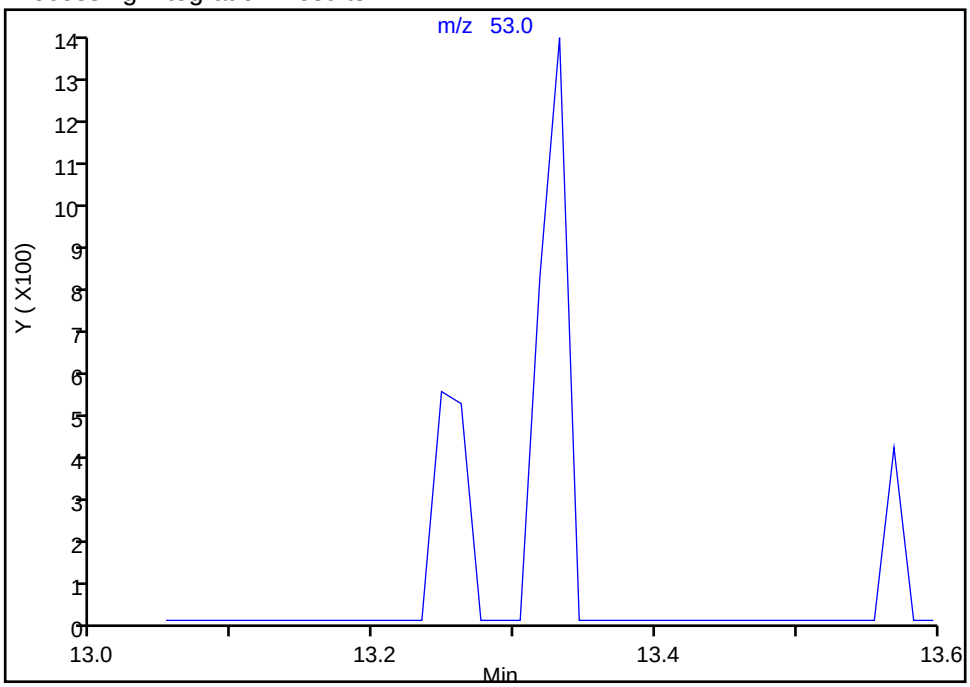
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4078.D
Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

93 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

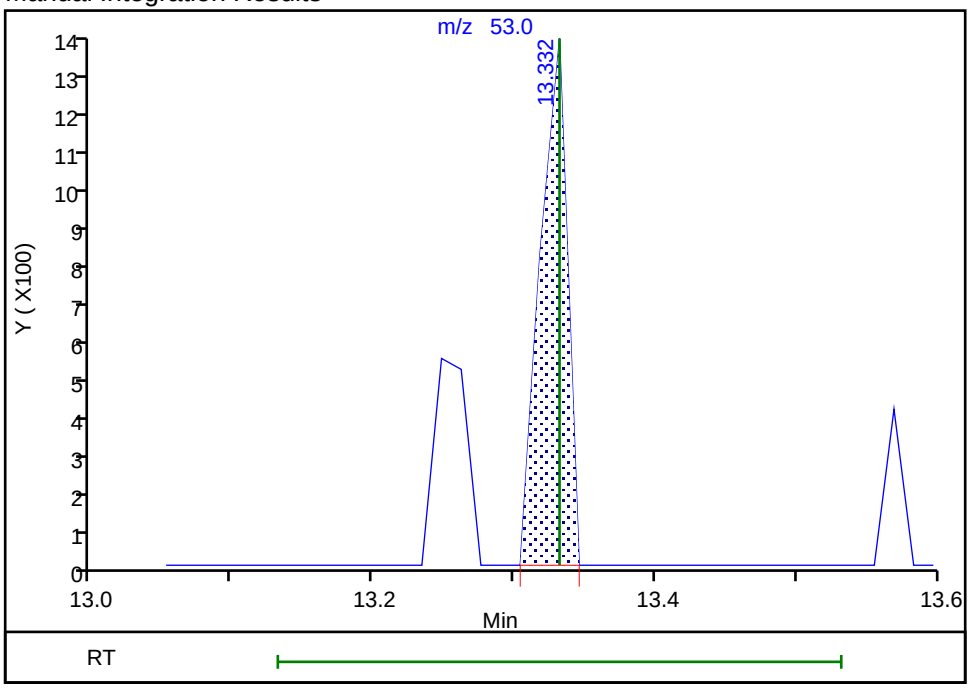
Not Detected
Expected RT: 13.33

Processing Integration Results



Manual Integration Results

RT: 13.33
Area: 1855
Amount: 2.620221
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:17:41
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

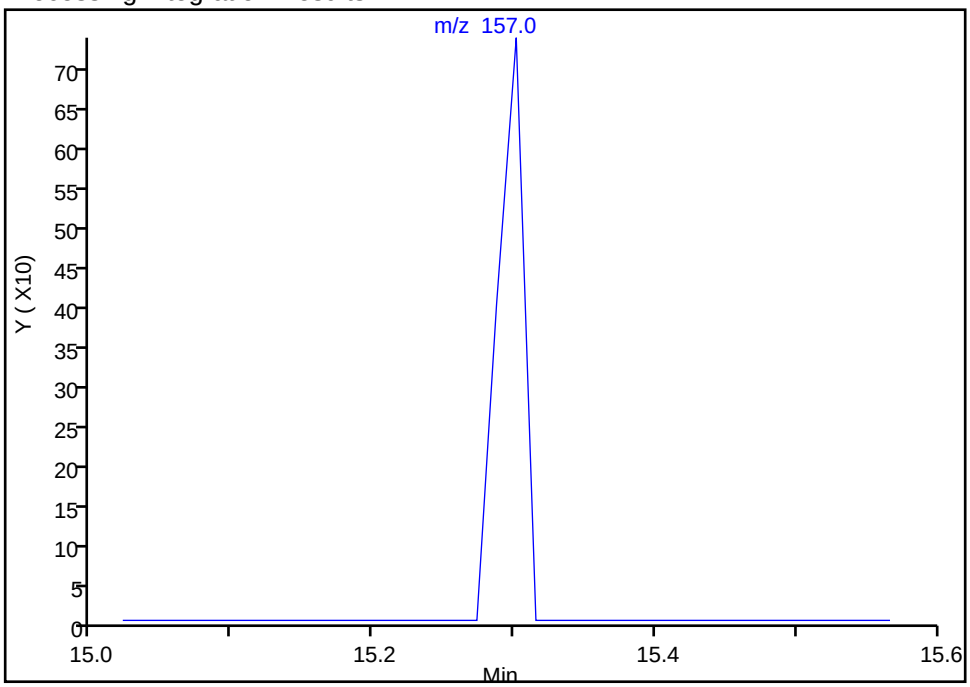
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4078.D
Injection Date: 18-Mar-2019 10:58:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

105 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

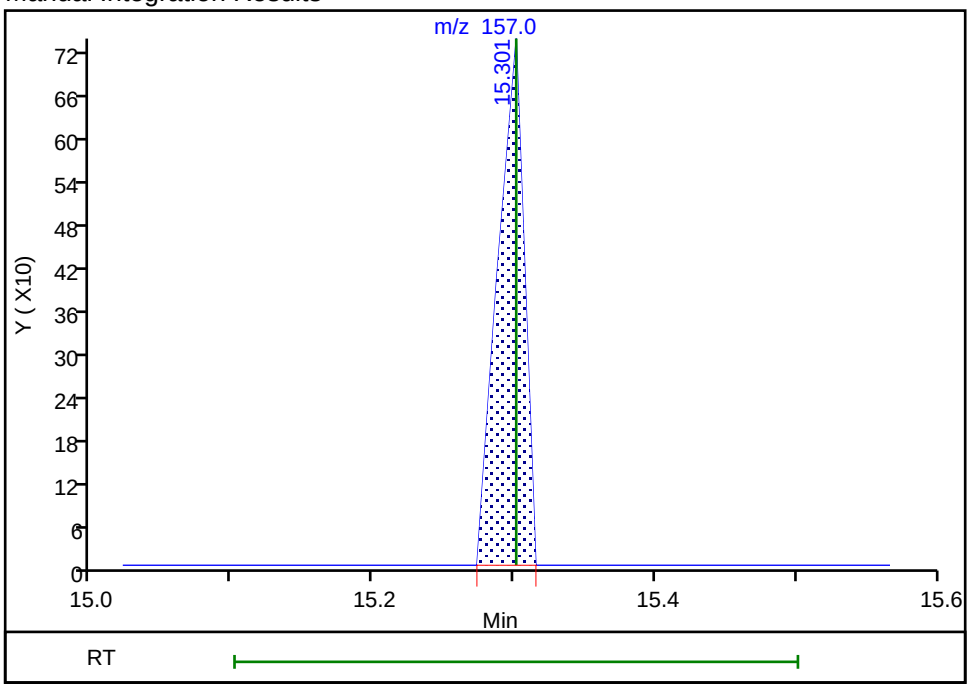
Not Detected
Expected RT: 15.30

Processing Integration Results



Manual Integration Results

RT: 15.30
Area: 955
Amount: 5.174586
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:17:49
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4080.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 18-Mar-2019 11:47:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: DEK Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 19-Mar-2019 16:06:23 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0338

First Level Reviewer: aguk Date: 18-Mar-2019 14:20:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	99	86792	10.0	11.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.402	3.402	0.000	95	17135	10.0	9.63	
3 Chloromethane	50	3.513	3.514	-0.001	99	67907	10.0	11.0	
4 Vinyl chloride	62	3.681	3.681	0.000	98	70635	10.0	10.7	
122 Butadiene	39	3.709	3.709	0.000	93	63140	10.0	10.8	
5 Bromomethane	94	4.282	4.282	0.000	93	42777	10.0	12.0	
6 Chloroethane	64	4.505	4.491	0.014	98	42445	10.0	11.2	
7 Trichlorofluoromethane	101	4.743	4.743	-0.001	98	98732	10.0	10.8	
123 Dichlorofluoromethane	67	4.854	4.854	0.000	97	110432	10.0	10.7	
8 Ethyl ether	74	5.245	5.245	0.000	88	21136	10.0	9.78	
11 Ethanol	45	5.469	5.483	-0.014	97	8949	400.0	409.1	
9 1,1-Dichloroethene	96	5.553	5.553	0.000	96	45804	10.0	10.1	
10 Carbon disulfide	76	5.594	5.595	-0.001	99	181481	10.0	10.3	
12 1,1,2-Trichloro-1,2,2-trif	151	5.608	5.609	-0.001	94	38925	10.0	10.7	
13 Iodomethane	142	5.776	5.762	0.014	94	6477	10.0	10.2	a
S 26 1,2-Dichloroethene, Total	96				0			20.4	
14 Acrolein	56	6.041	6.042	-0.001	96	5333	50.0	45.8	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	90	56159	10.0	10.1	
16 Isopropyl alcohol	45	6.223	6.223	0.000	96	14135	100.0	105.3	
17 Methylene Chloride	84	6.349	6.349	0.000	89	48026	10.0	10.5	
18 Acetone	43	6.418	6.419	-0.001	97	6411	10.0	10.8	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	96	51694	10.0	10.2	
20 Methyl acetate	74	6.558	6.544	0.014	96	7477	50.0	51.4	
21 Hexane	86	6.614	6.614	0.000	94	18436	10.0	9.99	
22 Methyl tert-butyl ether	73	6.656	6.656	0.000	79	103894	10.0	10.1	
23 2-Methyl-2-propanol	59	6.768	6.768	0.000	96	22486	100.0	100.2	
24 Acetonitrile	41	6.991	6.991	0.000	99	24169	100.0	104.6	
25 Isopropyl ether	45	7.075	7.075	0.000	91	124123	10.0	10.0	
27 2-Chloro-1,3-butadiene	53	7.229	7.229	-0.001	91	73824	10.0	9.67	
28 1,1-Dichloroethane	63	7.270	7.271	-0.001	95	99238	10.0	10.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.326	7.326	0.000	99	72907	100.0	104.4	
30 Tert-butyl ethyl ether	59	7.480	7.480	0.000	96	118340	10.0	9.98	
31 Vinyl acetate	43	7.508	7.508	0.000	97	58577	10.0	9.83	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	83	51468	10.0	10.2	
33 2,2-Dichloropropane	77	7.955	7.955	0.000	89	94916	10.0	10.2	
34 Cyclohexane	84	8.039	8.039	0.000	88	96563	10.0	10.1	
35 Chlorobromomethane	128	8.039	8.039	0.000	55	15360	10.0	10.5	
36 Chloroform	83	8.094	8.095	-0.001	94	94807	10.0	10.5	
39 Ethyl acetate	45	8.178	8.178	0.000	98	5708	20.0	22.2	
37 Carbon tetrachloride	117	8.248	8.248	0.000	97	66424	10.0	10.1	
38 Tetrahydrofuran	71	8.276	8.262	0.014	83	5170	20.0	21.8	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.290	0.000	94	33226	10.0	9.63	a
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	97	90836	10.0	10.4	
43 2-Butanone (MEK)	43	8.402	8.402	0.000	97	9437	10.0	10.6	
42 1,1-Dichloropropene	75	8.430	8.430	0.000	96	83750	10.0	10.0	
125 Isooctane	57	8.513	8.514	-0.001	96	230819	10.0	10.2	
117 n-Heptane	43	8.583	8.583	0.000	88	99131	10.0	10.4	
44 Benzene	78	8.681	8.681	0.000	95	238006	10.0	10.2	
45 Propionitrile	54	8.709	8.709	0.000	92	29386	100.0	106.7	
46 Methacrylonitrile	41	8.723	8.723	0.000	90	155741	100.0	107.9	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	98	115613	10.0	10.1	
50 Isobutyl alcohol	42	8.807	8.807	0.000	89	13338	250.0	269.9	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	99	46263	10.0	10.3	a
49 1,2-Dichloroethane	62	8.877	8.877	0.000	98	54908	10.0	10.3	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	898977	50.0	50.0	
52 Methylcyclohexane	55	9.212	9.212	0.000	87	86280	10.0	10.3	
53 Trichloroethene	95	9.212	9.212	0.000	58	58114	10.0	10.3	
54 n-Butanol	56	9.435	9.435	0.000	91	11992	250.0	261.5	
55 Dibromomethane	93	9.631	9.631	0.000	96	19766	10.0	10.3	
124 Ethyl acrylate	55	9.645	9.645	0.000	98	23886	10.0	10.4	
56 1,2-Dichloropropane	63	9.714	9.715	-0.001	93	47526	10.0	10.3	
57 Dichlorobromomethane	83	9.742	9.743	-0.001	98	58003	10.0	9.90	
58 Methyl methacrylate	69	9.840	9.840	0.000	87	34305	20.0	20.9	
59 1,4-Dioxane	88	9.924	9.924	0.000	87	4301	200.0	183.3	
60 2-Chloroethyl vinyl ether	63	10.217	10.217	0.000	92	13594	10.0	10.0	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	94	65467	10.0	9.72	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	173769	10.0	9.59	a
63 Toluene	92	10.525	10.525	0.000	98	140078	10.0	10.3	
64 2-Nitropropane	43	10.748	10.748	0.000	94	10002	20.0	22.3	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	94	17086	10.0	10.3	
65 Tetrachloroethene	164	10.888	10.888	0.000	95	45816	10.0	10.2	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	94	55155	10.0	9.64	
69 Ethyl methacrylate	69	10.971	10.972	-0.001	86	29263	10.0	10.1	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	92	25702	10.0	10.4	
70 Chlorodibromomethane	129	11.223	11.223	0.000	90	24145	10.0	9.44	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	90	56932	10.0	10.2	
119 n-Butyl acetate	43	11.446	11.446	0.000	97	28814	10.0	10.3	
72 Ethylene Dibromide	107	11.474	11.474	0.000	98	23714	10.0	10.0	
74 2-Hexanone	43	11.572	11.572	0.000	96	11329	10.0	10.4	
S 73 1,3-Dichloropropene, Total	75				0			19.4	
75 1-Chlorohexane	91	11.837	11.838	-0.001	97	75930	10.0	9.42	
* 76 Chlorobenzene-d5	117	11.907	11.907	0.000	94	583670	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.907	11.907	0.000	94	274644	10.0	10.1	
77 Chlorobenzene	112	11.921	11.921	0.000	94	129189	10.0	10.4	
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	93	35426	10.0	10.1	
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	99	93514	10.0	10.2	
82 o-Xylene	106	12.438	12.438	0.000	97	80419	10.0	10.1	
83 Styrene	104	12.480	12.480	0.000	93	113262	10.0	9.99	
84 Bromoform	173	12.550	12.550	0.000	94	14991	10.0	10.5	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	243869	10.0	9.96	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.011	0.000	88	57946	10.0	9.39	a
88 N-Propylbenzene	91	13.094	13.094	0.000	98	308853	10.0	9.96	
87 Bromobenzene	156	13.136	13.136	0.000	94	48648	10.0	10.4	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	96	32284	10.0	10.3	
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	94	192364	10.0	9.81	
90 2-Chlorotoluene	91	13.276	13.276	0.000	94	208217	10.0	10.3	
92 1,2,3-Trichloropropane	110	13.318	13.318	0.000	85	9567	10.0	10.7	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	80	7930	10.0	9.91	a
94 Cyclohexanone	55	13.402	13.402	0.000	89	5388	100.0	101.0	
95 4-Chlorotoluene	91	13.430	13.430	0.000	98	179600	10.0	10.0	
96 tert-Butylbenzene	119	13.583	13.583	0.000	92	166610	10.0	10.0	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	98	197492	10.0	9.98	
98 sec-Butylbenzene	105	13.751	13.751	0.000	95	279554	10.0	10.1	
99 4-Isopropyltoluene	119	13.862	13.863	-0.001	96	210690	10.0	9.97	
100 1,3-Dichlorobenzene	146	14.002	14.016	-0.014	95	92807	10.0	10.5	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	97	190264	10.0	10.3	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	280437	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	89	94736	10.0	10.8	
103 n-Butylbenzene	134	14.281	14.282	-0.001	97	50002	10.0	9.98	
121 Benzyl chloride	126	14.323	14.324	-0.001	26	8786	10.0	10.5	
104 1,2-Dichlorobenzene	146	14.519	14.519	0.000	93	77423	10.0	10.6	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	84	10389	10.0	9.86	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	66	3917	10.0	10.5	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	96	84594	10.0	10.5	
108 Hexachlorobutadiene	225	15.902	15.902	0.000	94	56238	10.0	10.3	
109 1,2,4-Trichlorobenzene	180	15.971	15.972	-0.001	93	60500	10.0	10.2	
110 Naphthalene	128	16.321	16.321	0.000	98	62948	10.0	9.82	
S 112 Xylenes, Total	106				0			20.3	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	95	51238	10.0	10.7	
S 113 Trihalomethanes, Total	1				0			40.3	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

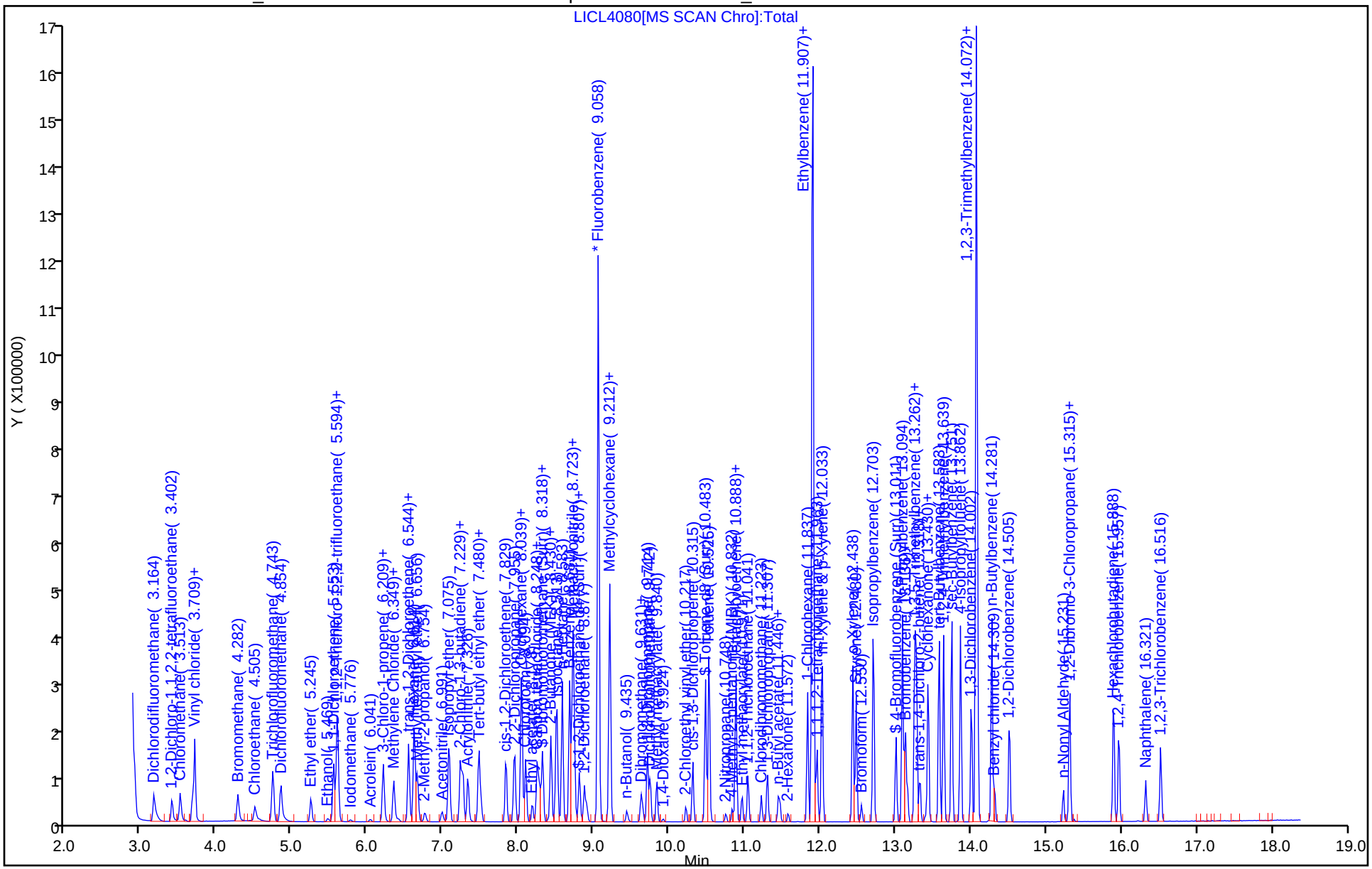
8260 NewWkMix_00319	Amount Added: 2.00	Units: uL	
8260 Surr 25_00096	Amount Added: 2.00	Units: uL	
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 19-Mar-2019 16:06:24 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4080.D

Injection Date:	18-Mar-2019 11:47:30	Instrument ID:	VMSL	Operator ID:	DEK
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

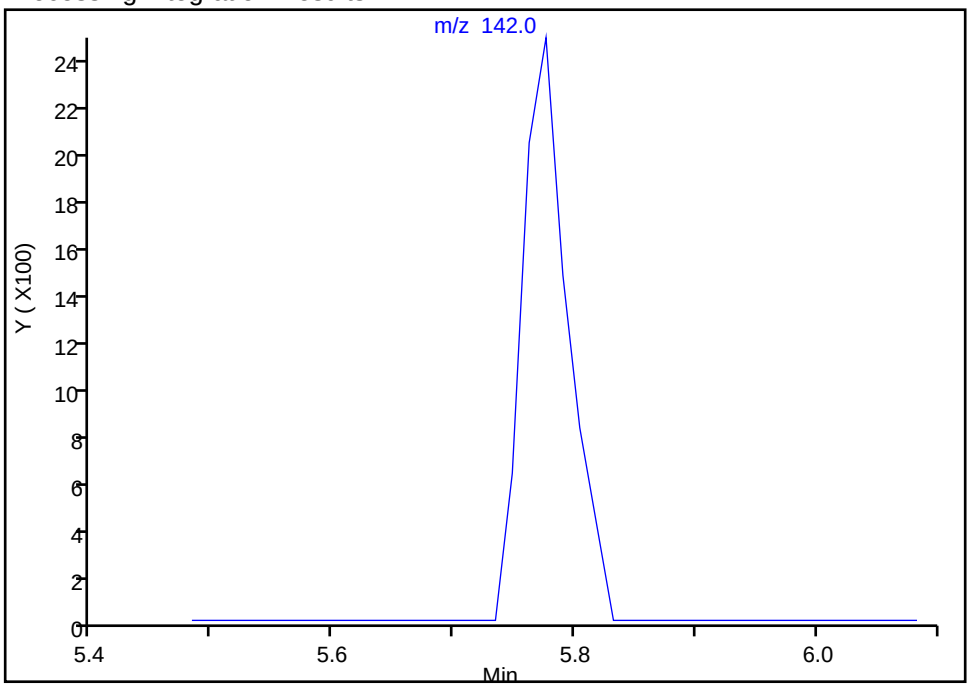
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4080.D
Injection Date: 18-Mar-2019 11:47:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

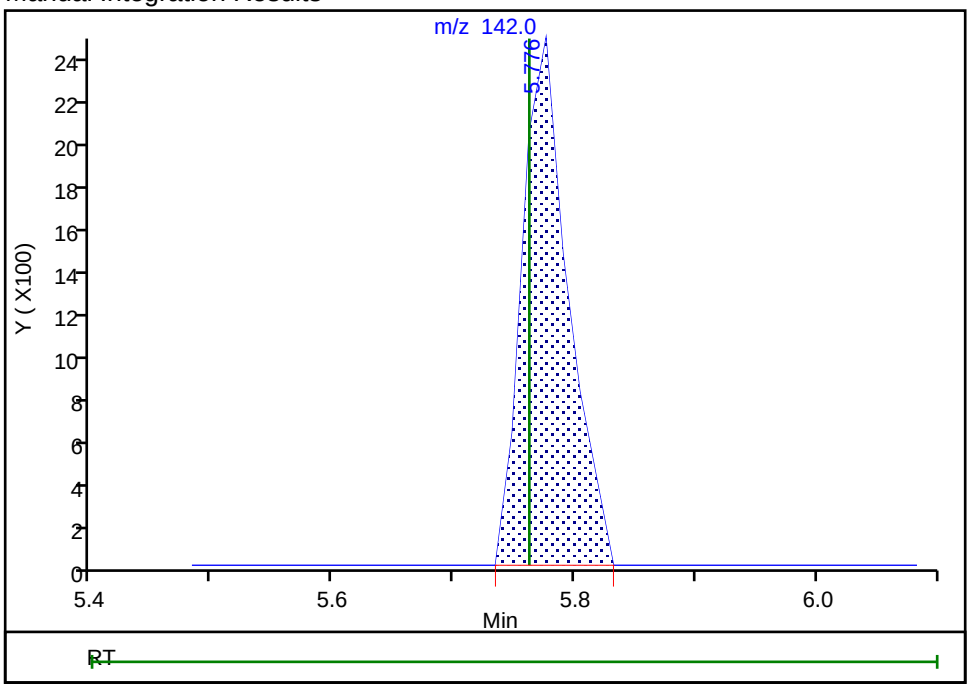
Not Detected
Expected RT: 5.76

Processing Integration Results



Manual Integration Results

RT: 5.78
Area: 6477
Amount: 10.210560
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:19:37
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

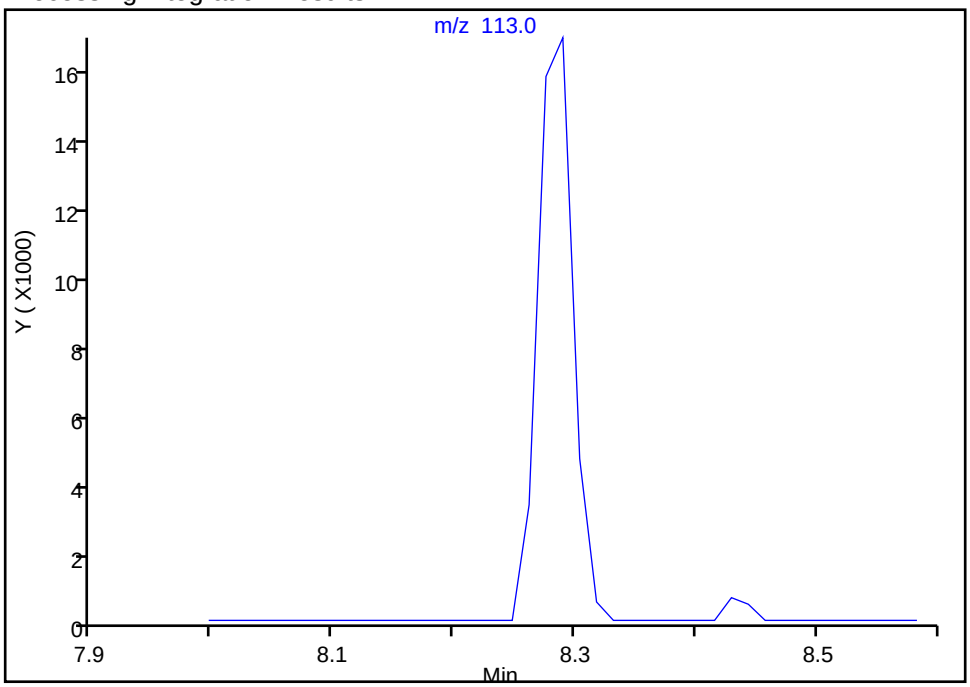
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4080.D
Injection Date: 18-Mar-2019 11:47:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 41 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

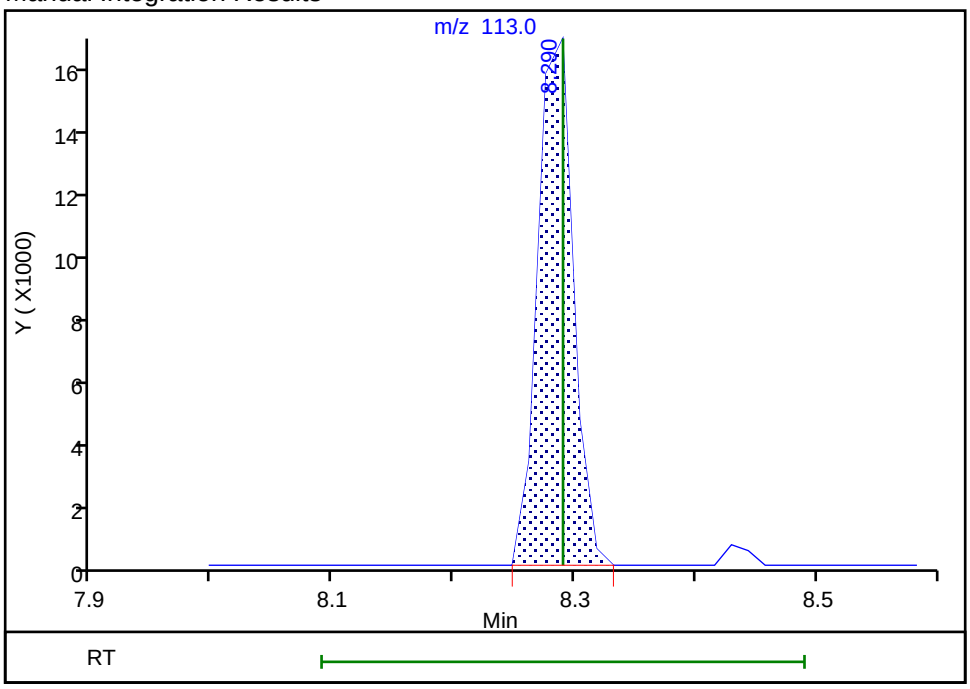
Not Detected
Expected RT: 8.29

Processing Integration Results



Manual Integration Results

RT: 8.29
Area: 33226
Amount: 9.634043
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:19:49
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

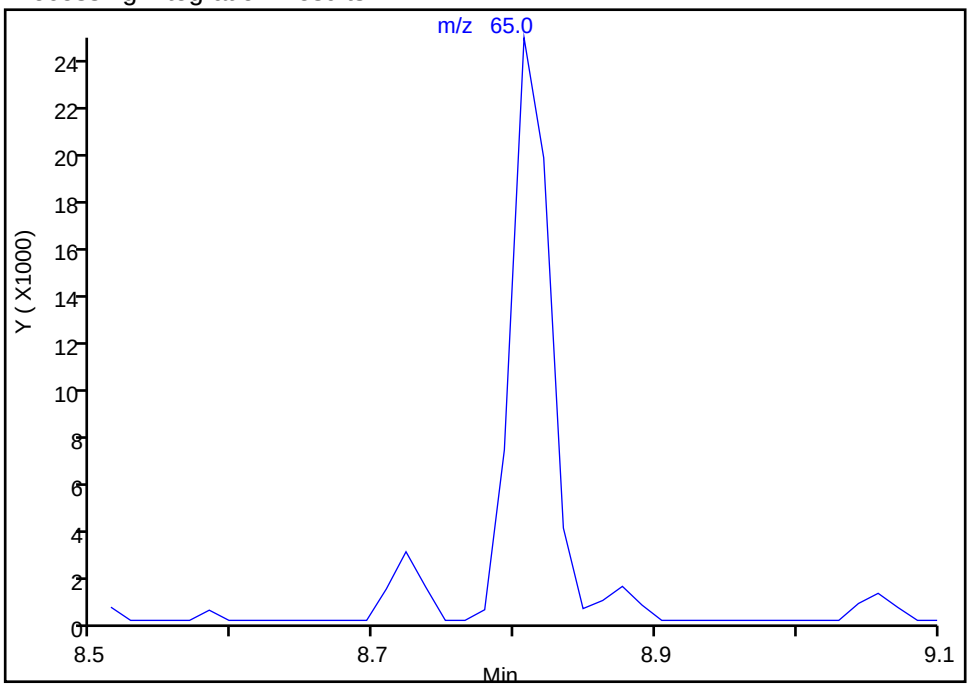
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4080.D
Injection Date: 18-Mar-2019 11:47:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 47 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

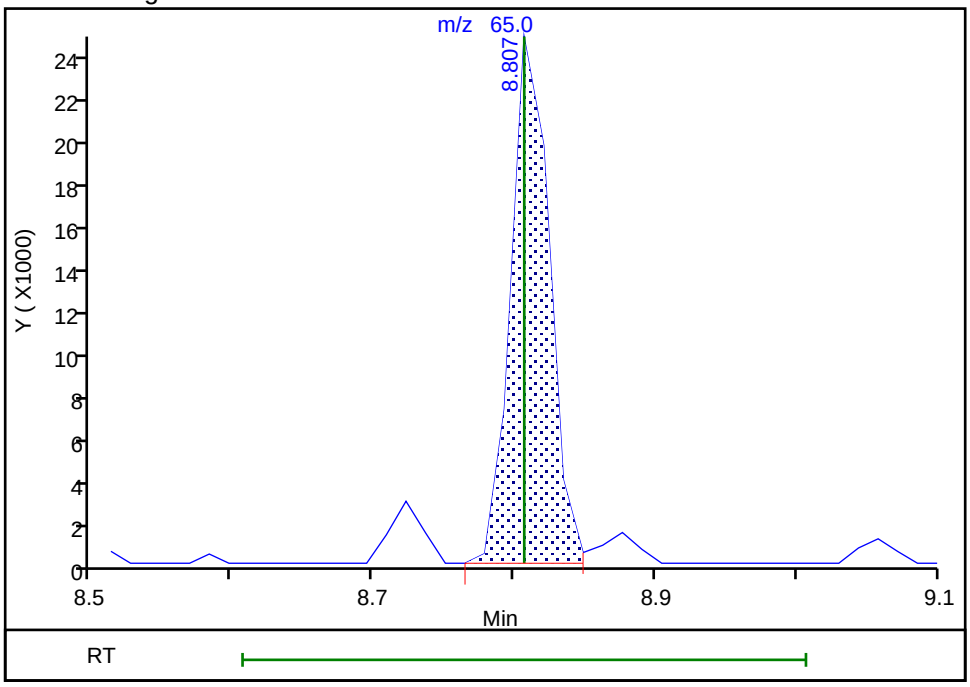
Not Detected
Expected RT: 8.81

Processing Integration Results



Manual Integration Results

RT: 8.81
Area: 46263
Amount: 10.303081
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:19:56
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

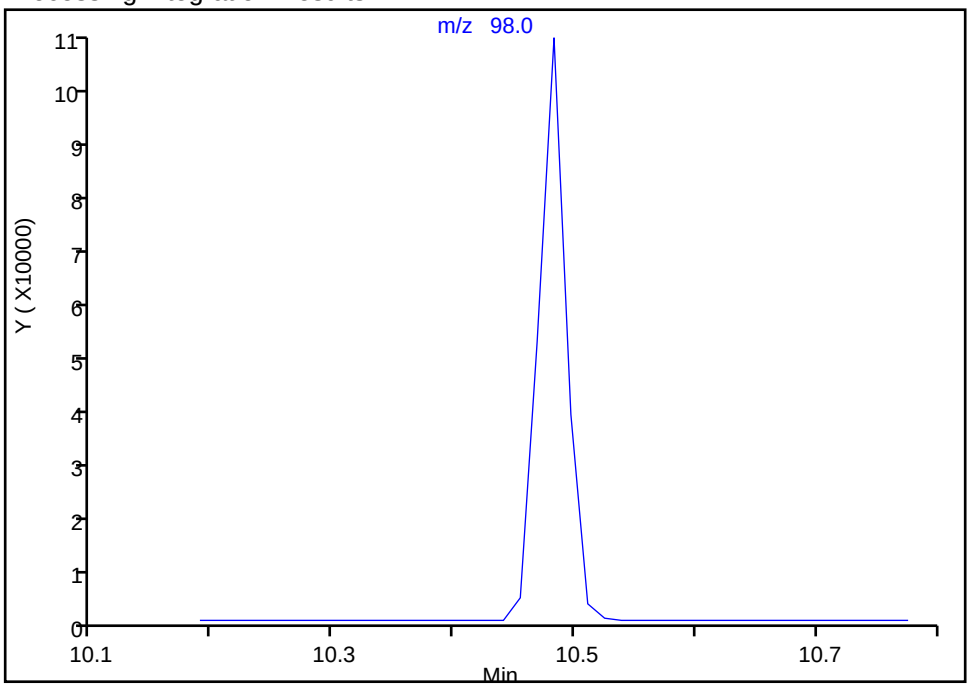
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4080.D
Injection Date: 18-Mar-2019 11:47:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 62 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

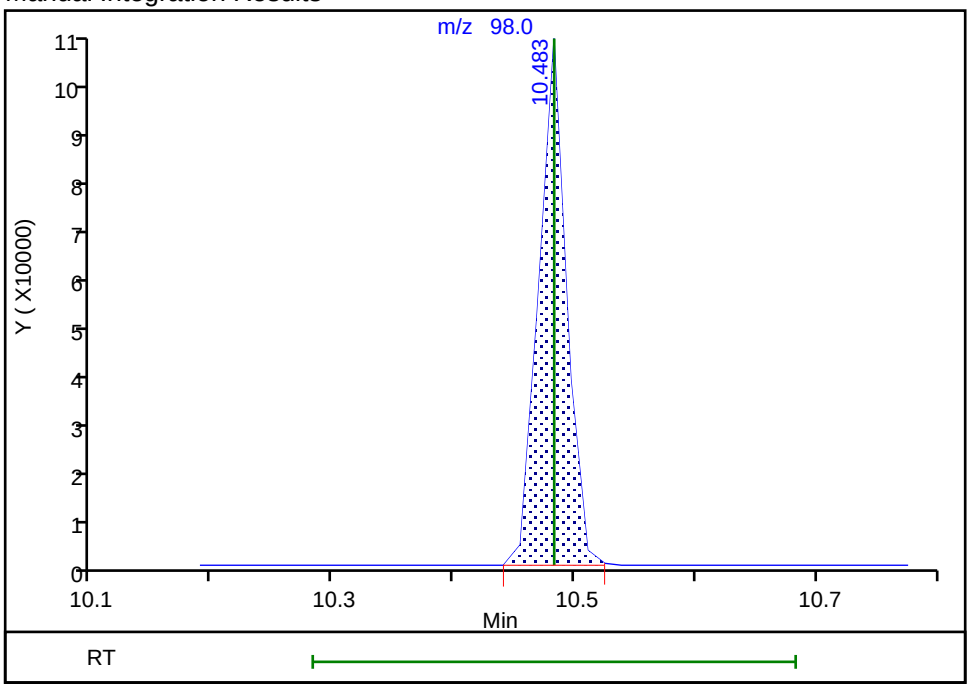
Not Detected
Expected RT: 10.48

Processing Integration Results



Manual Integration Results

RT: 10.48
Area: 173769
Amount: 9.592604
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:20:03
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

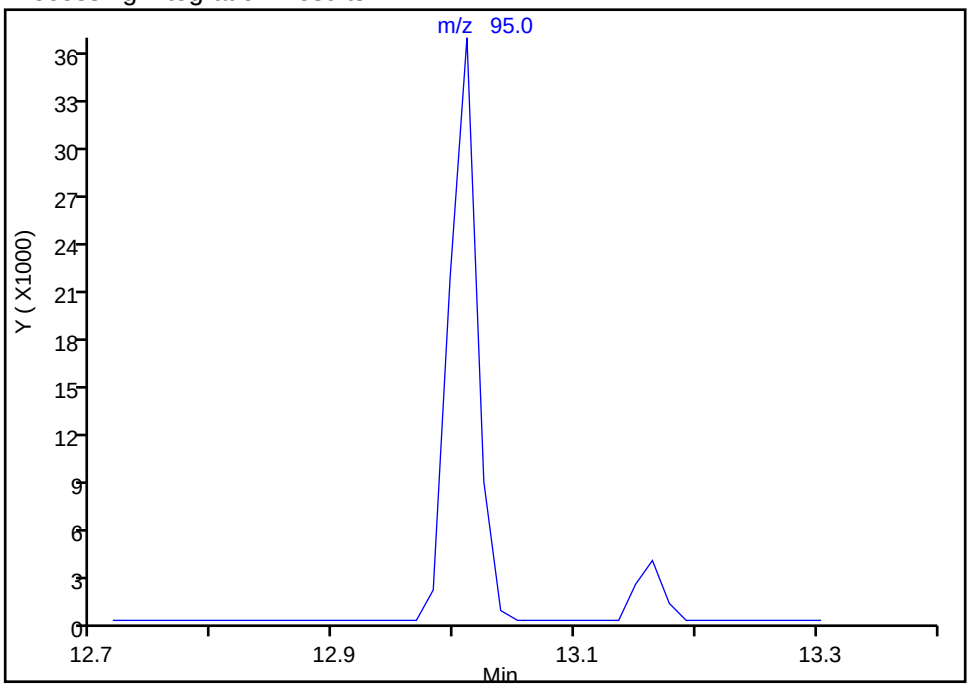
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4080.D
Injection Date: 18-Mar-2019 11:47:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 86 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 1

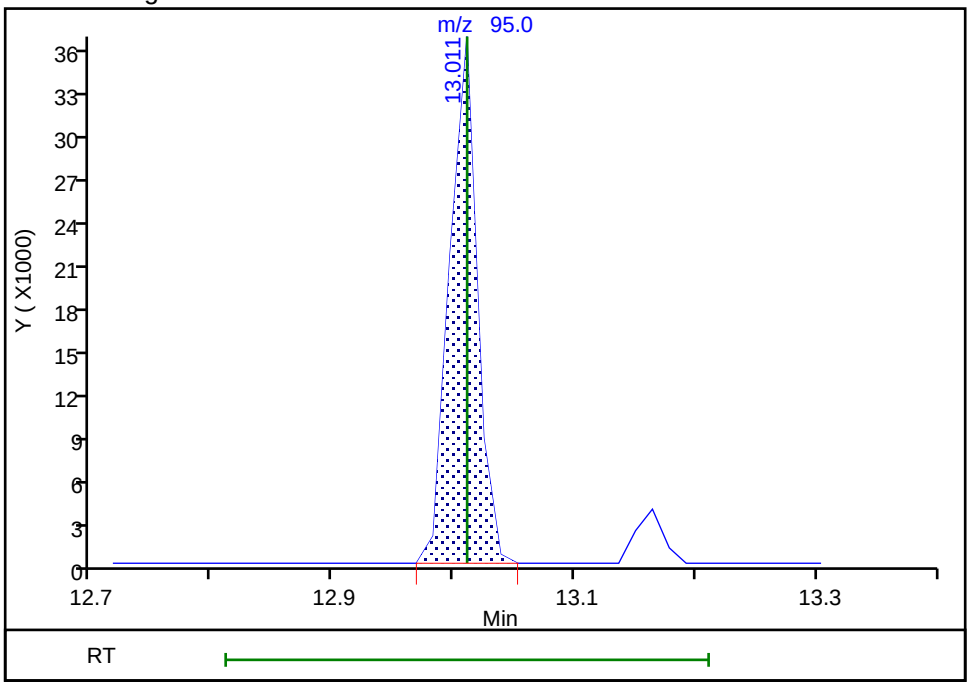
Not Detected
Expected RT: 13.01

Processing Integration Results



Manual Integration Results

RT: 13.01
Area: 57946
Amount: 9.386889
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:20:12
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

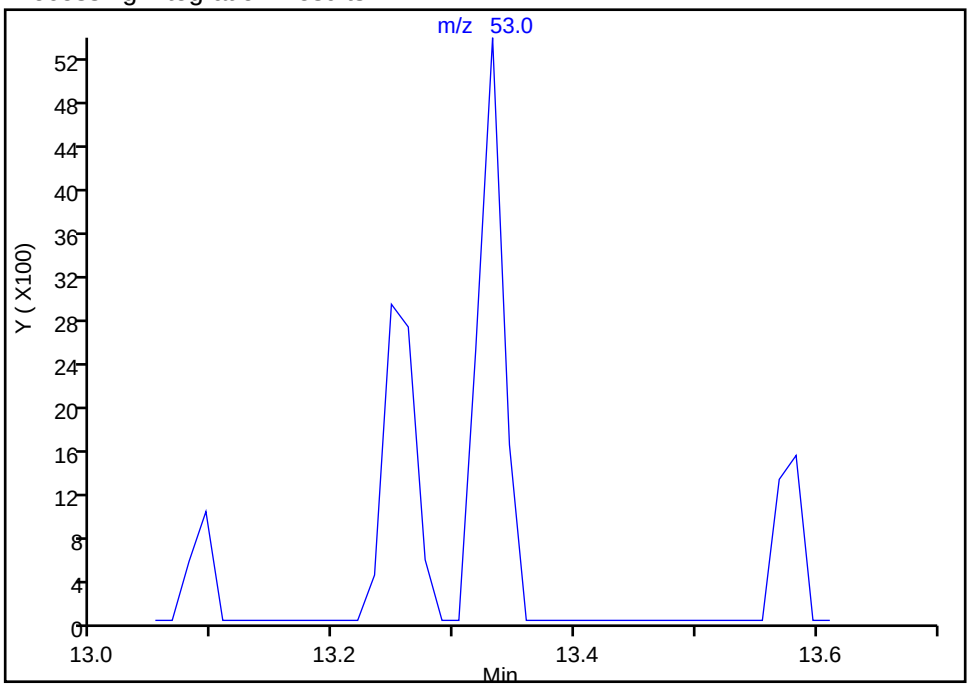
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4080.D
Injection Date: 18-Mar-2019 11:47:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

93 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

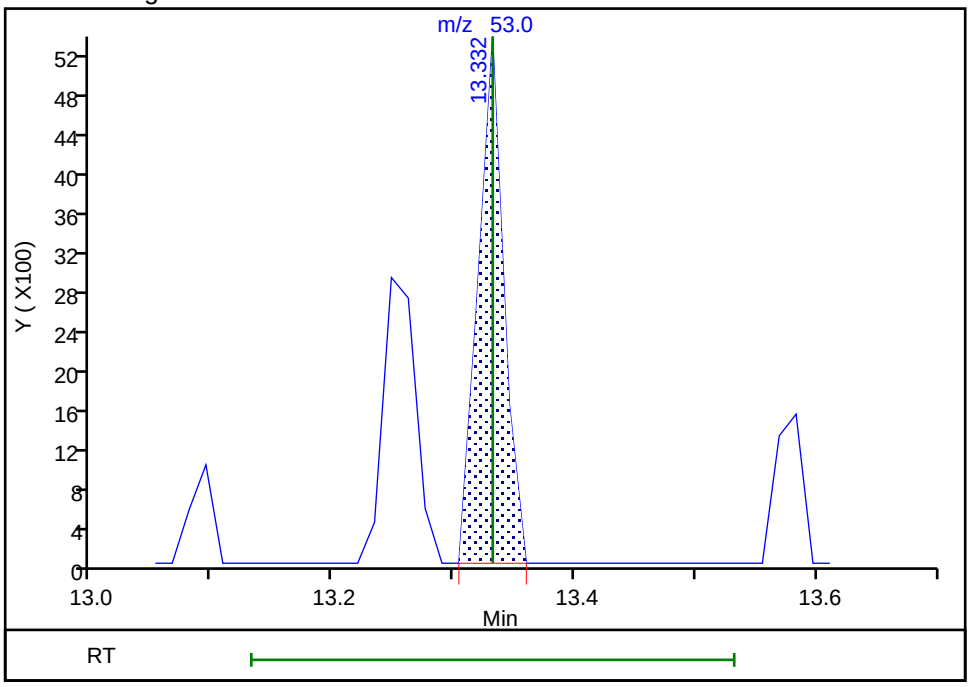
Not Detected
Expected RT: 13.33

Processing Integration Results



Manual Integration Results

RT: 13.33
Area: 7930
Amount: 9.911736
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:20:18
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4081.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 18-Mar-2019 12:12:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: DEK Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 19-Mar-2019 16:06:26 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0338

First Level Reviewer: aguk Date: 18-Mar-2019 14:23:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	99	174834	20.0	22.2	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.402	3.402	0.000	96	42044	20.0	22.6	
3 Chloromethane	50	3.513	3.514	-0.001	99	136057	20.0	21.1	
4 Vinyl chloride	62	3.681	3.681	0.000	97	144077	20.0	20.9	
122 Butadiene	39	3.709	3.709	0.000	92	128036	20.0	20.9	
5 Bromomethane	94	4.282	4.282	0.000	92	81769	20.0	21.9	
6 Chloroethane	64	4.505	4.491	0.014	98	87328	20.0	22.0	
7 Trichlorofluoromethane	101	4.742	4.743	-0.001	98	199165	20.0	20.9	
123 Dichlorofluoromethane	67	4.854	4.854	0.000	97	221809	20.0	20.5	
8 Ethyl ether	74	5.245	5.245	0.000	88	44442	20.0	19.7	
11 Ethanol	45	5.469	5.483	-0.014	99	18424	800.0	807.5	
9 1,1-Dichloroethene	96	5.552	5.553	-0.001	96	95731	20.0	20.2	
10 Carbon disulfide	76	5.594	5.595	-0.001	99	380657	20.0	20.7	
12 1,1,2-Trichloro-1,2,2-trif	151	5.608	5.609	-0.001	91	79252	20.0	20.9	
13 Iodomethane	142	5.776	5.762	0.014	98	24573	20.0	16.2	
S 26 1,2-Dichloroethene, Total	96				0			40.4	
14 Acrolein	56	6.041	6.042	-0.001	99	10960	100.0	90.2	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	90	116976	20.0	20.1	
16 Isopropyl alcohol	45	6.223	6.223	0.000	96	26018	200.0	185.8	
17 Methylene Chloride	84	6.349	6.349	0.000	89	96548	20.0	20.3	
18 Acetone	43	6.418	6.419	-0.001	99	11419	20.0	18.5	
20 Methyl acetate	74	6.558	6.544	0.014	97	14587	100.0	96.2	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	96	106250	20.0	20.1	
21 Hexane	86	6.614	6.614	0.000	93	40505	20.0	21.0	
22 Methyl tert-butyl ether	73	6.656	6.656	0.000	81	206341	20.0	19.3	
23 2-Methyl-2-propanol	59	6.768	6.768	0.000	97	43859	200.0	187.3	
24 Acetonitrile	41	6.991	6.991	0.000	100	47505	200.0	197.1	
25 Isopropyl ether	45	7.075	7.075	0.000	92	258727	20.0	20.0	
27 2-Chloro-1,3-butadiene	53	7.228	7.229	-0.001	91	159669	20.0	20.1	
28 1,1-Dichloroethane	63	7.270	7.271	-0.001	95	203322	20.0	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.326	7.326	0.000	99	142013	200.0	194.9	
30 Tert-butyl ethyl ether	59	7.480	7.480	0.000	97	243447	20.0	19.7	
31 Vinyl acetate	43	7.508	7.508	0.000	97	118170	20.0	19.0	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	81	106386	20.0	20.2	
33 2,2-Dichloropropane	77	7.955	7.955	0.000	89	194501	20.0	20.1	
35 Chlorobromomethane	128	8.038	8.039	-0.001	53	31226	20.0	20.4	
34 Cyclohexane	84	8.038	8.039	-0.001	88	205367	20.0	20.5	
36 Chloroform	83	8.094	8.095	-0.001	92	188248	20.0	20.0	
39 Ethyl acetate	45	8.178	8.178	0.000	98	11245	40.0	38.9	
37 Carbon tetrachloride	117	8.248	8.248	0.000	96	138853	20.0	20.1	
38 Tetrahydrofuran	71	8.276	8.262	0.014	84	10240	40.0	37.1	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.290	0.000	94	71906	20.0	20.0	a
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	98	184891	20.0	20.3	
43 2-Butanone (MEK)	43	8.402	8.402	0.000	99	17563	20.0	19.0	
42 1,1-Dichloropropene	75	8.430	8.430	0.000	96	176108	20.0	20.2	
125 Isooctane	57	8.513	8.514	-0.001	96	486151	20.0	20.7	
117 n-Heptane	43	8.583	8.583	0.000	88	203073	20.0	20.4	
44 Benzene	78	8.681	8.681	0.000	95	483467	20.0	19.8	
45 Propionitrile	54	8.709	8.709	0.000	90	57061	200.0	198.6	
46 Methacrylonitrile	41	8.723	8.723	0.000	90	297855	200.0	197.8	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	98	232754	20.0	19.4	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	98	92147	20.0	19.7	a
50 Isobutyl alcohol	42	8.807	8.807	0.000	92	28078	500.0	476.3	
49 1,2-Dichloroethane	62	8.876	8.877	-0.001	99	107943	20.0	19.3	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	937600	50.0	50.0	
53 Trichloroethene	95	9.212	9.212	0.000	57	118699	20.0	20.2	
52 Methylcyclohexane	55	9.212	9.212	0.000	87	180353	20.0	20.6	
54 n-Butanol	56	9.435	9.435	0.000	91	25286	500.0	439.7	
55 Dibromomethane	93	9.631	9.631	0.000	96	39624	20.0	19.8	
124 Ethyl acrylate	55	9.645	9.645	0.000	99	48529	20.0	17.5	
56 1,2-Dichloropropane	63	9.714	9.715	-0.001	94	97123	20.0	20.1	
57 Dichlorobromomethane	83	9.742	9.743	-0.001	99	121050	20.0	19.8	
58 Methyl methacrylate	69	9.840	9.840	0.000	88	70896	40.0	36.1	
59 1,4-Dioxane	88	9.924	9.924	0.000	90	9622	400.0	393.2	
60 2-Chloroethyl vinyl ether	63	10.217	10.217	0.000	92	29080	20.0	17.7	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	95	139359	20.0	19.8	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	93	377241	20.0	20.2	a
63 Toluene	92	10.524	10.525	-0.001	98	290188	20.0	20.6	
64 2-Nitropropane	43	10.748	10.748	0.000	96	19515	40.0	36.7	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	96	35533	20.0	17.8	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	96	116336	20.0	19.7	
65 Tetrachloroethene	164	10.888	10.888	0.000	95	92064	20.0	19.8	
69 Ethyl methacrylate	69	10.971	10.972	-0.001	86	64443	20.0	17.2	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	93	51239	20.0	20.0	
70 Chlorodibromomethane	129	11.223	11.223	0.000	90	51699	20.0	19.6	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	90	114046	20.0	19.8	
119 n-Butyl acetate	43	11.446	11.446	0.000	96	60678	20.0	17.7	
72 Ethylene Dibromide	107	11.474	11.474	0.000	99	48111	20.0	19.7	
74 2-Hexanone	43	11.572	11.572	0.000	96	23723	20.0	17.8	
S 73 1,3-Dichloropropene, Total	75				0			39.5	
75 1-Chlorohexane	91	11.837	11.838	-0.001	97	168604	20.0	20.2	
78 Ethylbenzene	91	11.907	11.907	0.000	96	571973	20.0	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.907	11.907	0.000	93	603140	50.0	50.0	
77 Chlorobenzene	112	11.921	11.921	0.000	89	264545	20.0	20.6	
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	91	73635	20.0	20.4	
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	100	197234	20.0	20.8	
82 o-Xylene	106	12.438	12.438	0.000	97	175045	20.0	21.2	
83 Styrene	104	12.480	12.480	0.000	94	262400	20.0	19.4	
84 Bromoform	173	12.550	12.550	0.000	95	30801	20.0	18.0	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	522815	20.0	20.7	
$ 86 4-Bromofluorobenzene (Surr	95	13.010	13.011	-0.001	88	126742	20.0	19.9	a
88 N-Propylbenzene	91	13.094	13.094	0.000	99	667598	20.0	20.9	
87 Bromobenzene	156	13.136	13.136	0.000	94	98082	20.0	20.4	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	96	63670	20.0	19.8	
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	93	423696	20.0	21.0	
90 2-Chlorotoluene	91	13.276	13.276	0.000	93	430856	20.0	20.7	
92 1,2,3-Trichloropropane	110	13.318	13.318	0.000	83	18631	20.0	20.2	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	83	15532	20.0	18.8	
94 Cyclohexanone	55	13.402	13.402	0.000	86	11624	200.0	177.5	
95 4-Chlorotoluene	91	13.429	13.430	-0.001	98	383880	20.0	20.7	
96 tert-Butylbenzene	119	13.583	13.583	0.000	91	358423	20.0	21.0	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	97	424993	20.0	20.8	
98 sec-Butylbenzene	105	13.751	13.751	0.000	95	600115	20.0	21.0	
99 4-Isopropyltoluene	119	13.862	13.863	-0.001	96	451658	20.0	20.7	
100 1,3-Dichlorobenzene	146	14.016	14.016	0.000	96	188012	20.0	20.6	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	96	288947	50.0	50.0	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	87	398410	20.0	20.8	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	88	187130	20.0	20.7	
103 n-Butylbenzene	134	14.281	14.282	-0.001	97	105783	20.0	20.5	
121 Benzyl chloride	126	14.323	14.324	-0.001	97	18633	20.0	18.3	
104 1,2-Dichlorobenzene	146	14.519	14.519	0.000	94	156536	20.0	20.5	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	87	26547	20.0	19.1	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	65	8287	20.0	18.3	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	96	170288	20.0	20.5	
108 Hexachlorobutadiene	225	15.901	15.902	-0.001	95	115982	20.0	20.7	
109 1,2,4-Trichlorobenzene	180	15.971	15.972	-0.001	92	126743	20.0	20.7	
110 Naphthalene	128	16.320	16.321	-0.001	98	126962	20.0	19.2	
S 112 Xylenes, Total	106				0			42.0	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	94	100151	20.0	20.4	
S 113 Trihalomethanes, Total	1				0			77.4	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

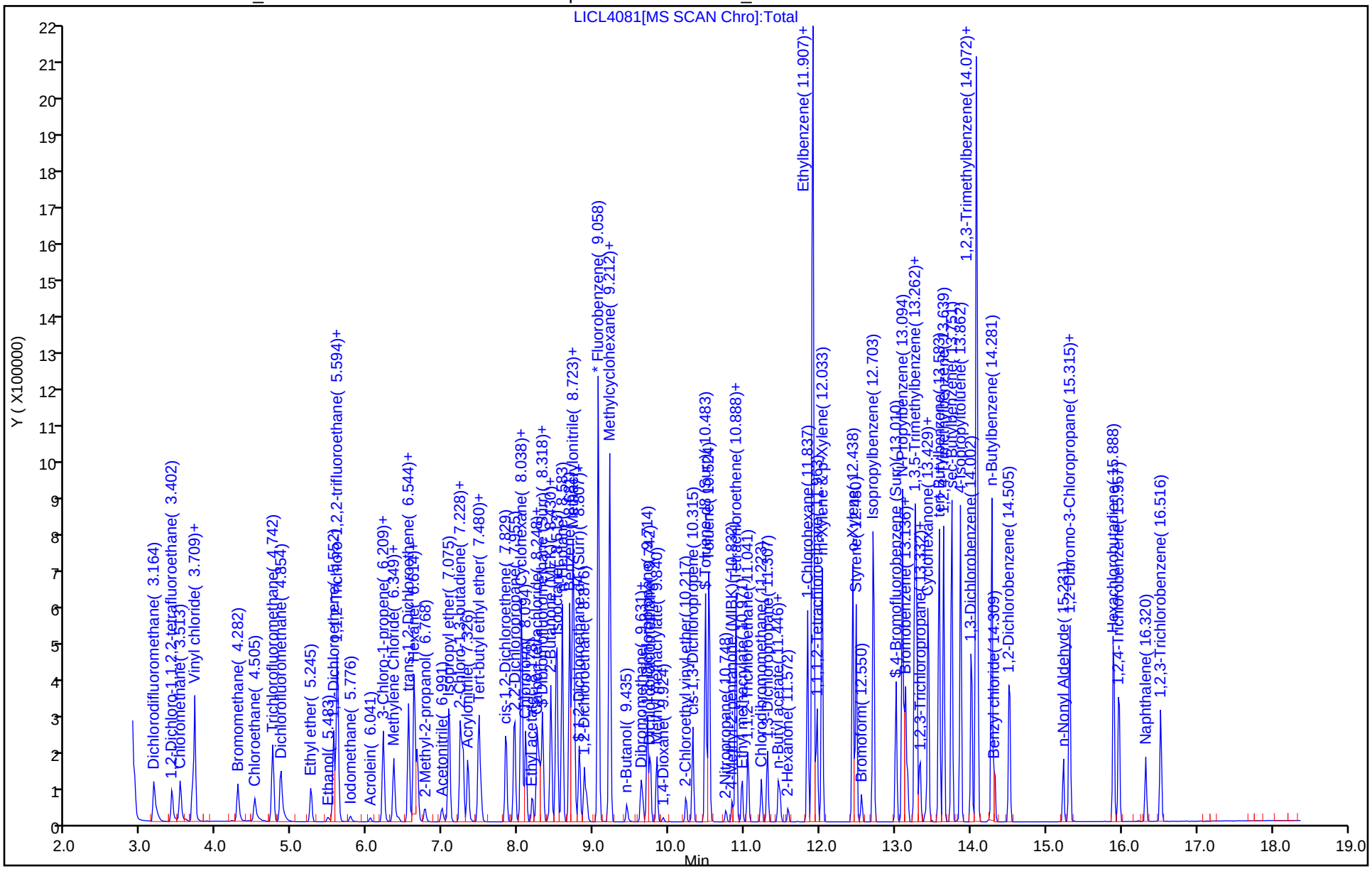
8260 NewWkMix_00319	Amount Added: 4.00	Units: uL	
8260 Surr 25_00096	Amount Added: 4.00	Units: uL	
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 19-Mar-2019 16:06:27 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4081.D

Injection Date:	18-Mar-2019 12:12:30	Instrument ID:	VMSL	Operator ID:	DEK
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

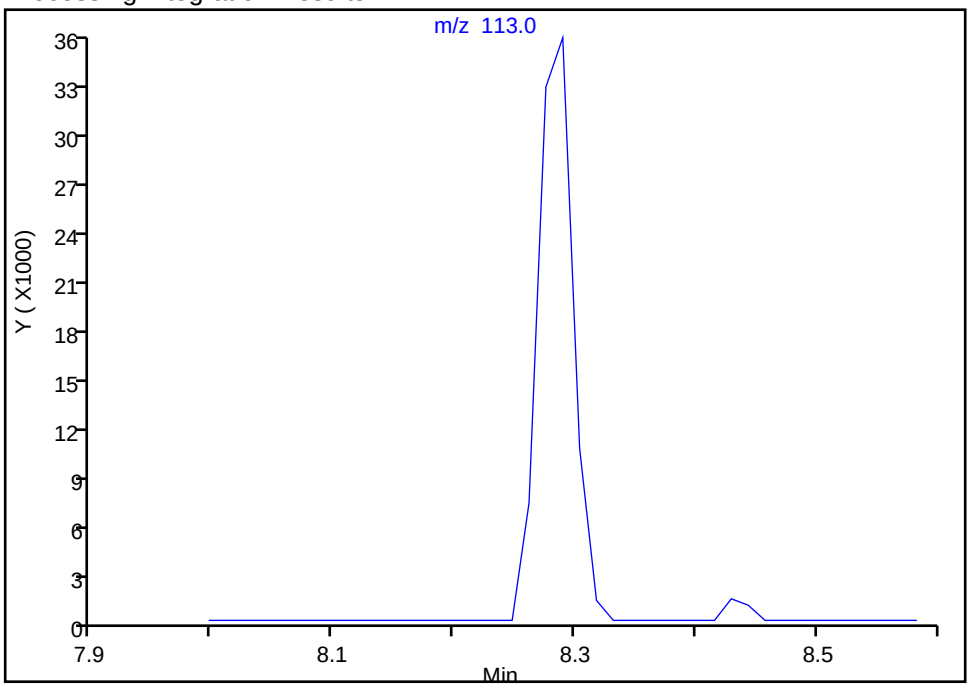
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4081.D
Injection Date: 18-Mar-2019 12:12:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 41 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

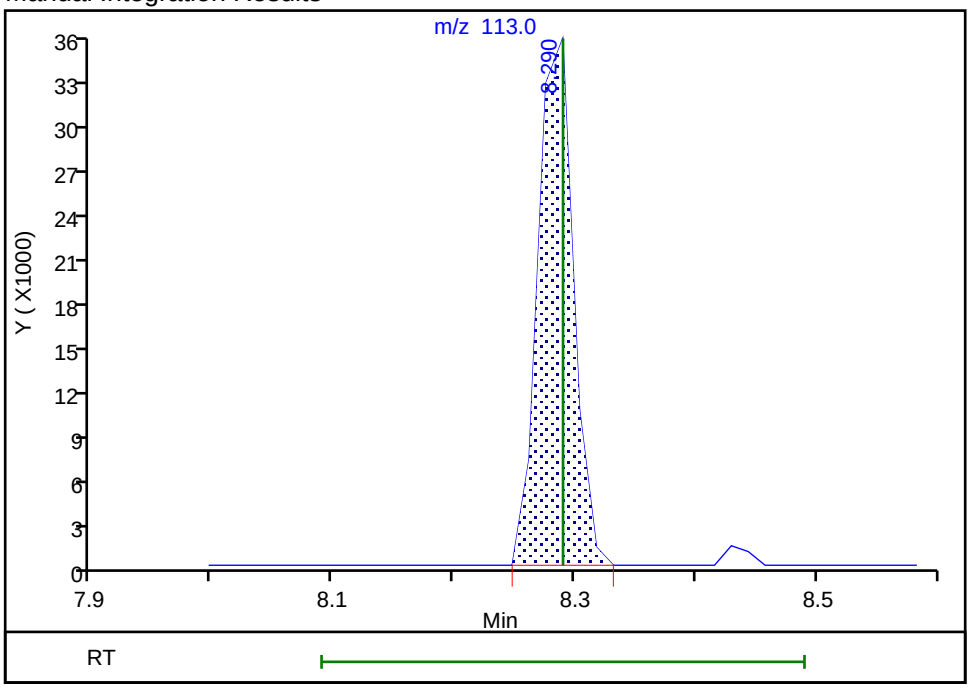
Not Detected
Expected RT: 8.29

Processing Integration Results



Manual Integration Results

RT: 8.29
Area: 71906
Amount: 19.990637
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:23:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

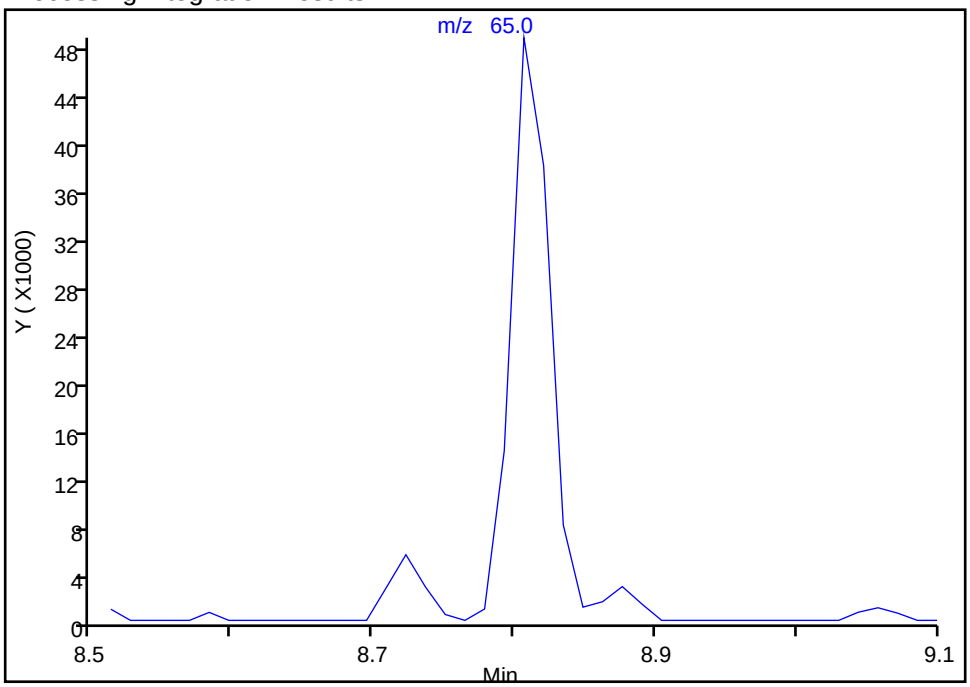
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Injection Date: 18-Mar-2019 12:12:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 47 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

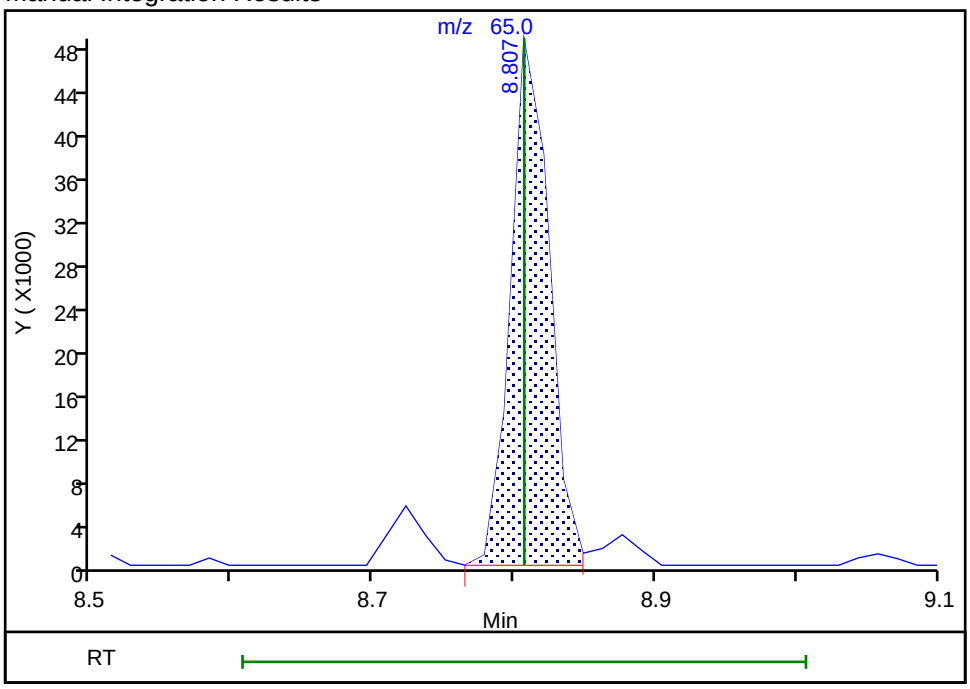
Processing Integration Results

Not Detected
Expected RT: 8.81



Manual Integration Results

RT: 8.81
Area: 92147
Amount: 19.676395
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:23:22
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

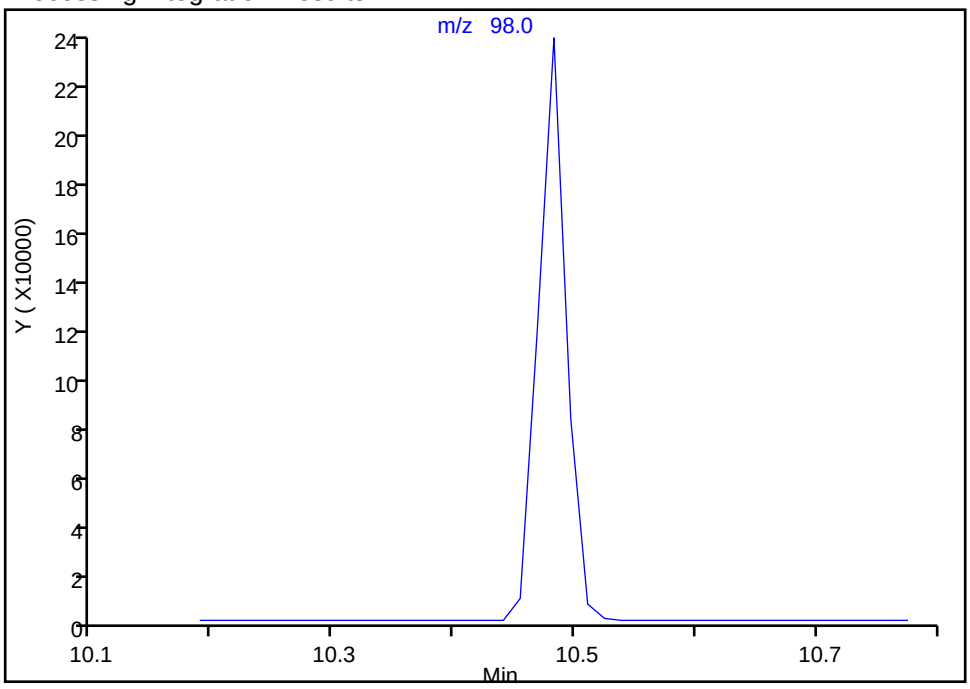
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4081.D
Injection Date: 18-Mar-2019 12:12:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 62 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

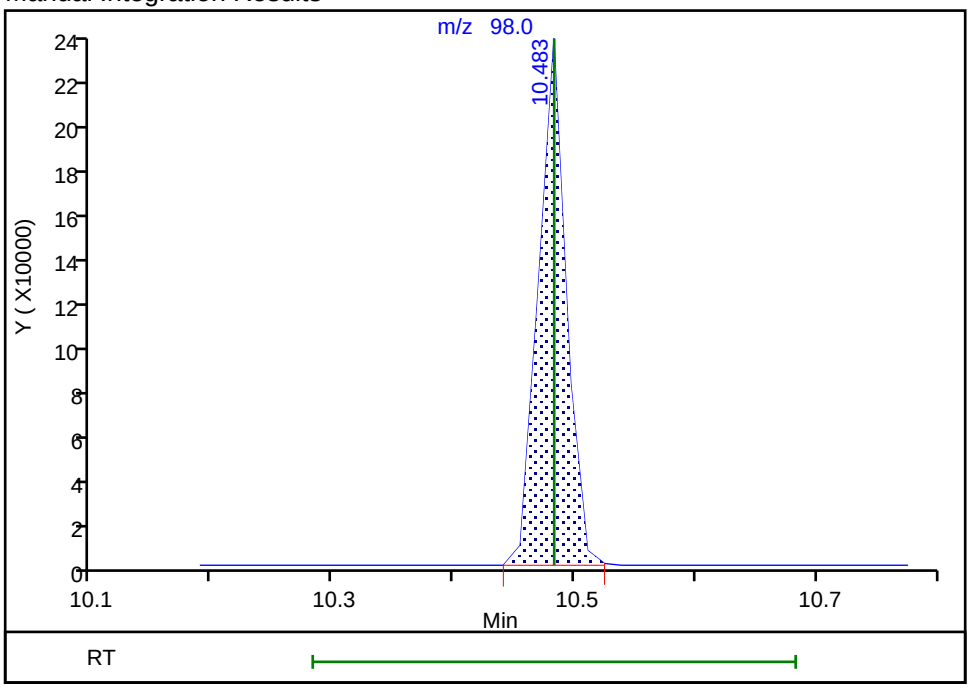
Not Detected
Expected RT: 10.48

Processing Integration Results



Manual Integration Results

RT: 10.48
Area: 377241
Amount: 20.152657
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:23:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

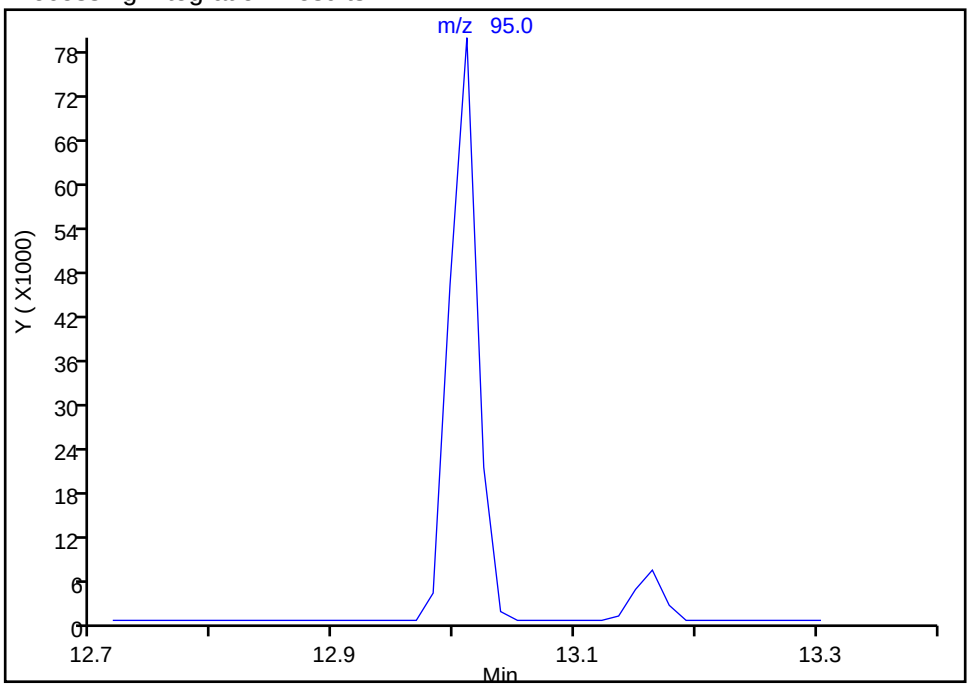
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4081.D
Injection Date: 18-Mar-2019 12:12:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 86 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 1

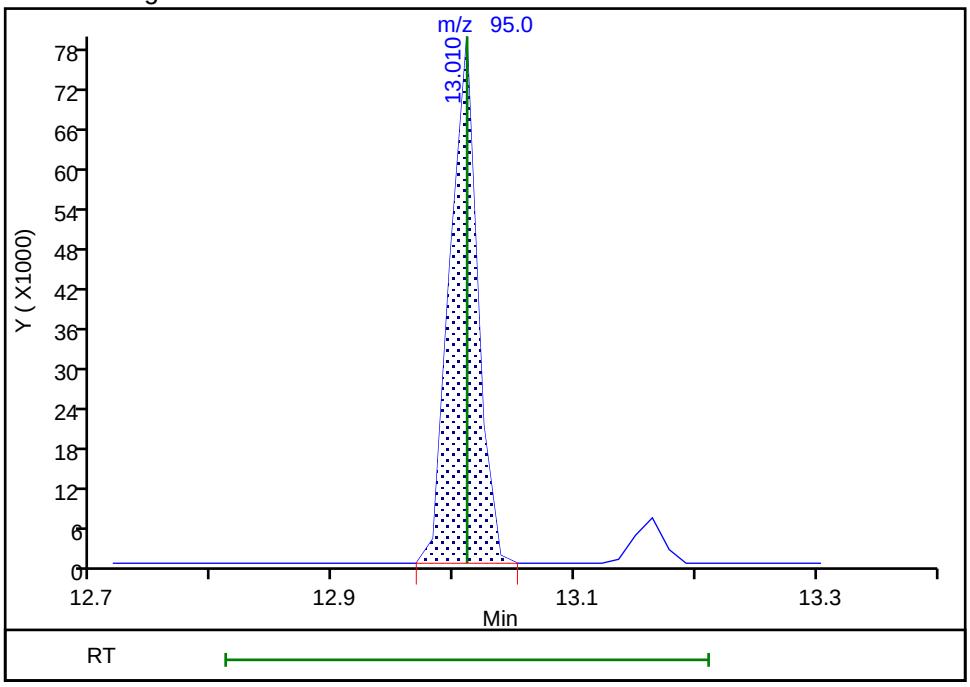
Processing Integration Results

Not Detected
Expected RT: 13.01



Manual Integration Results

RT: 13.01
Area: 126742
Amount: 19.926724
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:23:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4082.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 18-Mar-2019 12:36:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: ICIS
Operator ID: DEK Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 19-Mar-2019 16:06:29 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0338

First Level Reviewer: aguk Date: 18-Mar-2019 13:25:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	98	442765	50.0	52.3	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.402	3.402	0.000	92	108707	50.0	54.4	
3 Chloromethane	50	3.514	3.514	0.000	89	345251	50.0	49.8	
4 Vinyl chloride	62	3.681	3.681	0.000	99	373303	50.0	50.3	
122 Butadiene	39	3.709	3.709	0.000	93	336869	50.0	51.2	
5 Bromomethane	94	4.282	4.282	0.000	91	191839	50.0	47.8	
6 Chloroethane	64	4.491	4.491	0.000	98	190578	50.0	44.6	
7 Trichlorofluoromethane	101	4.743	4.743	0.000	97	503923	50.0	49.0	
123 Dichlorofluoromethane	67	4.854	4.854	0.000	79	567430	50.0	48.8	
8 Ethyl ether	74	5.245	5.245	0.000	88	124803	50.0	51.4	
11 Ethanol	45	5.483	5.483	0.000	97	50338	2000.0	2049.5	
9 1,1-Dichloroethene	96	5.553	5.553	0.000	97	256419	50.0	50.3	
10 Carbon disulfide	76	5.595	5.595	0.000	98	1003583	50.0	50.7	
12 1,1,2-Trichloro-1,2,2-trif	151	5.609	5.609	0.000	56	201697	50.0	49.4	
13 Iodomethane	142	5.762	5.762	0.000	98	123604	50.0	45.5	
14 Acrolein	56	6.042	6.042	0.000	87	32632	250.0	249.5	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	89	313943	50.0	50.2	
16 Isopropyl alcohol	45	6.223	6.223	0.000	31	72754	500.0	482.6	
17 Methylene Chloride	84	6.349	6.349	0.000	88	253013	50.0	49.3	
18 Acetone	43	6.419	6.419	0.000	91	33047	50.0	49.7	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	96	281364	50.0	49.5	
20 Methyl acetate	74	6.544	6.544	0.000	48	42706	250.0	261.7	
21 Hexane	86	6.614	6.614	0.000	86	106103	50.0	51.2	
22 Methyl tert-butyl ether	73	6.656	6.656	0.000	86	589027	50.0	51.1	
23 2-Methyl-2-propanol	59	6.768	6.768	0.000	98	130118	500.0	516.3	
24 Acetonitrile	41	6.991	6.991	0.000	99	128420	500.0	495.1	
25 Isopropyl ether	45	7.075	7.075	0.000	93	708226	50.0	50.9	
27 2-Chloro-1,3-butadiene	53	7.229	7.229	0.000	89	441941	50.0	51.6	
28 1,1-Dichloroethane	63	7.271	7.271	0.000	96	528401	50.0	49.2	
29 Acrylonitrile	53	7.326	7.326	0.000	99	400800	500.0	511.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.480	7.480	0.000	97	681189	50.0	51.2	
31 Vinyl acetate	43	7.508	7.508	0.000	97	336562	50.0	50.3	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	71	282790	50.0	50.0	
33 2,2-Dichloropropane	77	7.955	7.955	0.000	86	507303	50.0	48.8	
34 Cyclohexane	84	8.039	8.039	0.000	84	542899	50.0	50.3	
35 Chlorobromomethane	128	8.039	8.039	0.000	48	81976	50.0	49.8	
36 Chloroform	83	8.095	8.095	0.000	77	495492	50.0	48.9	
39 Ethyl acetate	45	8.178	8.178	0.000	99	31586	100.0	95.7	
37 Carbon tetrachloride	117	8.248	8.248	0.000	81	366397	50.0	49.4	
38 Tetrahydrofuran	71	8.262	8.262	0.000	57	31222	100.0	96.3	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.290	0.000	72	196089	50.0	50.6	
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	57	480615	50.0	49.1	
43 2-Butanone (MEK)	43	8.402	8.402	0.000	97	50598	50.0	50.7	
42 1,1-Dichloropropene	75	8.430	8.430	0.000	95	469826	50.0	50.0	
125 Isooctane	57	8.514	8.514	0.000	85	1284421	50.0	50.7	
117 n-Heptane	43	8.583	8.583	0.000	67	539718	50.0	50.5	
44 Benzene	78	8.681	8.681	0.000	95	1261036	50.0	48.1	
45 Propionitrile	54	8.709	8.709	0.000	49	159212	500.0	514.9	
46 Methacrylonitrile	41	8.723	8.723	0.000	84	835691	500.0	515.6	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	85	660207	50.0	51.2	
50 Isobutyl alcohol	42	8.807	8.807	0.000	1	82644	1250.0	1185.6	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	90	249913	50.0	49.6	
49 1,2-Dichloroethane	62	8.877	8.877	0.000	82	286468	50.0	47.7	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1009256	50.0	50.0	
52 Methylcyclohexane	55	9.212	9.212	0.000	87	467746	50.0	49.7	
53 Trichloroethene	95	9.212	9.212	0.000	57	304211	50.0	48.0	
54 n-Butanol	56	9.435	9.435	0.000	91	81569	1250.0	1143.7	
55 Dibromomethane	93	9.631	9.631	0.000	91	108408	50.0	50.3	
124 Ethyl acrylate	55	9.645	9.645	0.000	98	154696	50.0	46.3	
56 1,2-Dichloropropane	63	9.715	9.715	0.000	90	258717	50.0	49.8	
57 Dichlorobromomethane	83	9.743	9.743	0.000	92	332398	50.0	50.5	
58 Methyl methacrylate	69	9.840	9.840	0.000	85	222047	100.0	94.6	
59 1,4-Dioxane	88	9.924	9.924	0.000	89	27842	1000.0	1056.9	
60 2-Chloroethyl vinyl ether	63	10.217	10.217	0.000	92	93411	50.0	47.4	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	91	385828	50.0	51.0	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1019145	50.0	50.2	
63 Toluene	92	10.525	10.525	0.000	95	764972	50.0	50.2	
64 2-Nitropropane	43	10.748	10.748	0.000	97	64805	100.0	96.3	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	94	109196	50.0	45.2	
65 Tetrachloroethene	164	10.888	10.888	0.000	88	238922	50.0	47.5	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	91	328753	50.0	51.3	
69 Ethyl methacrylate	69	10.972	10.972	0.000	81	211503	50.0	44.6	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	87	137962	50.0	49.7	
70 Chlorodibromomethane	129	11.223	11.223	0.000	88	147226	50.0	51.4	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	89	311088	50.0	49.7	
119 n-Butyl acetate	43	11.446	11.446	0.000	97	193547	50.0	46.0	
72 Ethylene Dibromide	107	11.474	11.474	0.000	97	133493	50.0	50.4	
74 2-Hexanone	43	11.572	11.572	0.000	94	73442	50.0	44.7	
75 1-Chlorohexane	91	11.838	11.838	0.000	96	459026	50.0	50.8	
* 76 Chlorobenzene-d5	117	11.907	11.907	0.000	56	654003	50.0	50.0	
78 Ethylbenzene	91	11.907	11.907	0.000	93	1479623	50.0	48.6	
77 Chlorobenzene	112	11.921	11.921	0.000	88	681617	50.0	48.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	48	194336	50.0	49.7	
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	100	519059	50.0	50.5	
82 o-Xylene	106	12.438	12.438	0.000	98	467948	50.0	52.3	
83 Styrene	104	12.480	12.480	0.000	62	742079	50.0	46.7	
84 Bromoform	173	12.550	12.550	0.000	95	93657	50.0	44.5	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	1373929	50.0	49.2	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.011	0.000	87	353459	50.0	50.2	
88 N-Propylbenzene	91	13.094	13.094	0.000	98	1745446	50.0	49.3	
87 Bromobenzene	156	13.136	13.136	0.000	77	258380	50.0	48.5	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	81	175096	50.0	49.2	
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	91	1118976	50.0	50.0	
90 2-Chlorotoluene	91	13.276	13.276	0.000	92	1117768	50.0	48.4	
92 1,2,3-Trichloropropane	110	13.318	13.318	0.000	13	50147	50.0	49.1	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	9	45237	50.0	49.6	
94 Cyclohexanone	55	13.402	13.402	0.000	67	36813	500.0	449.9	
95 4-Chlorotoluene	91	13.430	13.430	0.000	98	1001024	50.0	48.8	
96 tert-Butylbenzene	119	13.583	13.583	0.000	88	933192	50.0	49.3	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	97	1122345	50.0	49.7	a
98 sec-Butylbenzene	105	13.751	13.751	0.000	95	1547506	50.0	49.0	
99 4-Isopropyltoluene	119	13.863	13.863	0.000	95	1202960	50.0	49.9	
100 1,3-Dichlorobenzene	146	14.016	14.016	0.000	96	484355	50.0	47.9	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	95	1038313	50.0	49.1	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	58	319964	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	73	482616	50.0	48.1	
103 n-Butylbenzene	134	14.282	14.282	0.000	95	284765	50.0	49.8	
121 Benzyl chloride	126	14.324	14.324	0.000	1	57548	50.0	45.5	
104 1,2-Dichlorobenzene	146	14.519	14.519	0.000	95	406223	50.0	47.9	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	89	94986	50.0	50.5	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	35	25887	50.0	45.9	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	96	440805	50.0	48.0	
108 Hexachlorobutadiene	225	15.902	15.902	0.000	87	294614	50.0	47.5	
109 1,2,4-Trichlorobenzene	180	15.972	15.972	0.000	91	331097	50.0	48.9	
110 Naphthalene	128	16.321	16.321	0.000	98	366084	50.0	50.1	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	93	262944	50.0	48.3	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

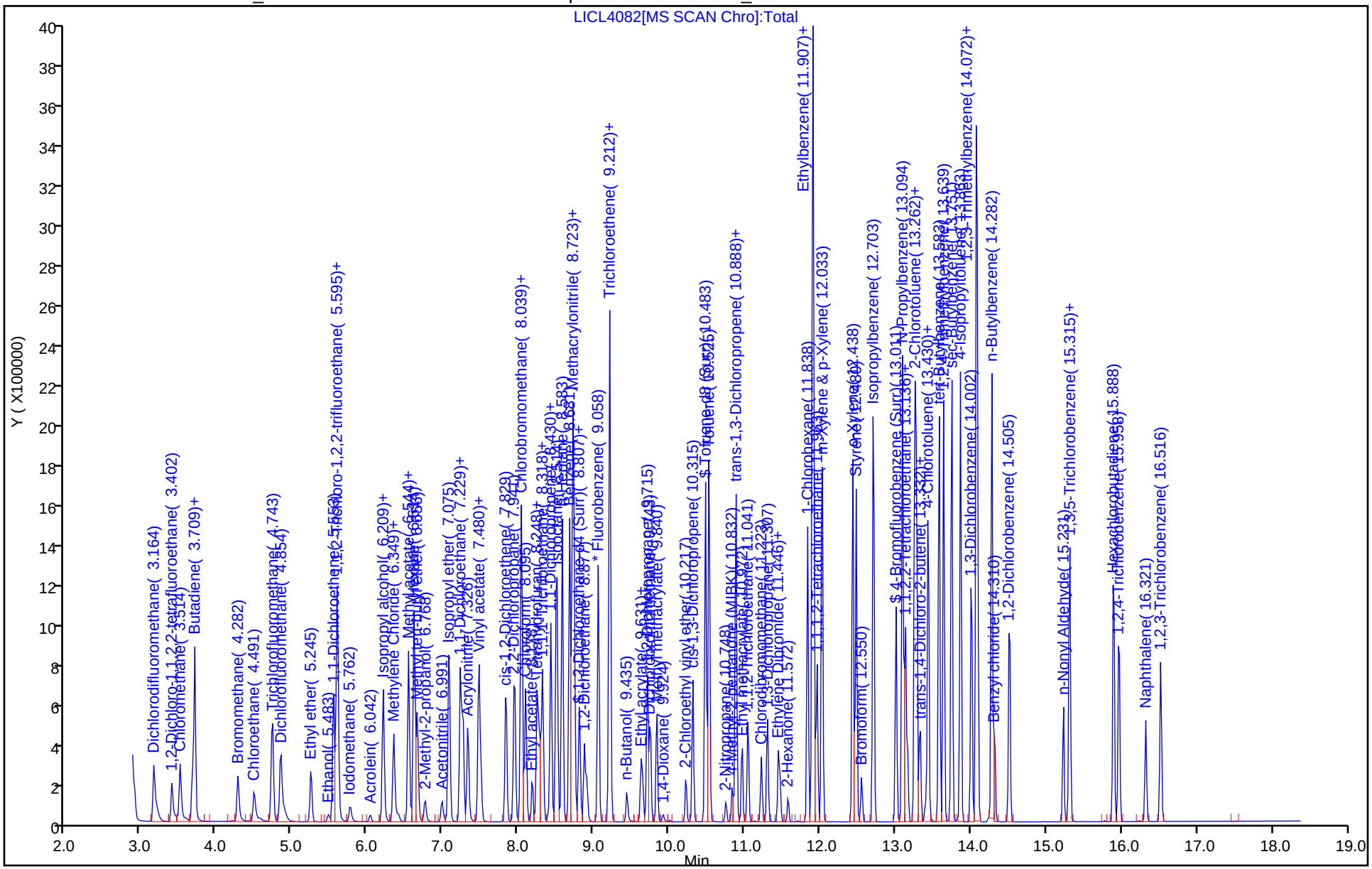
8260 NewWkMix_00319	Amount Added: 10.00	Units: uL	
8260 Surr 25_00096	Amount Added: 10.00	Units: uL	
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 19-Mar-2019 16:06:30 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4082.D

Injection Date:	18-Mar-2019 12:36:30	Instrument ID:	VMSL	Operator ID:	DEK
Lims ID:	ICIS			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

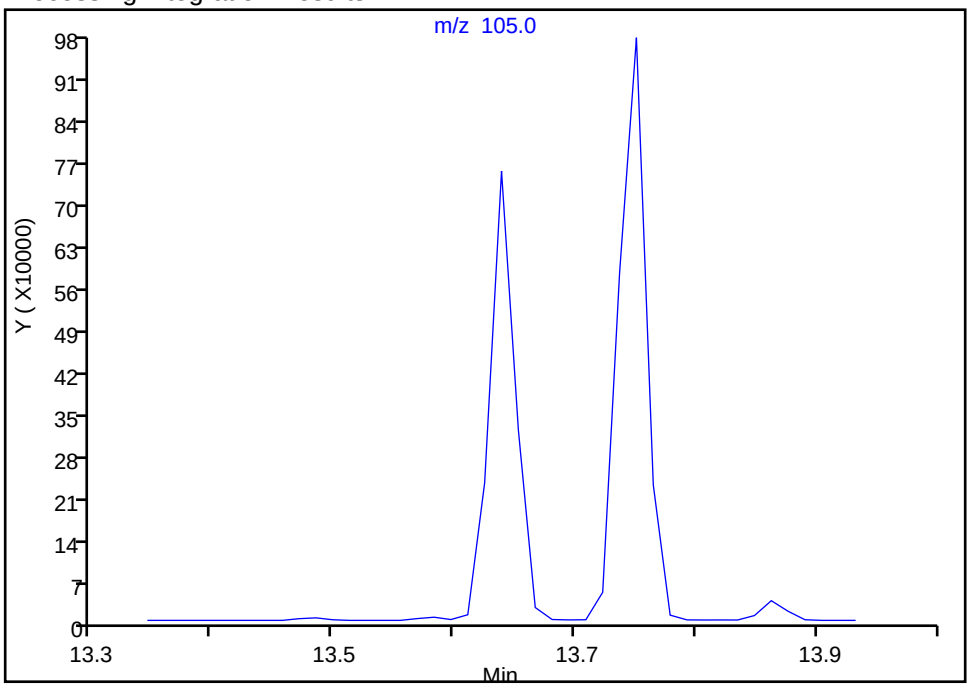
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4082.D
Injection Date: 18-Mar-2019 12:36:30 Instrument ID: VMSL
Lims ID: ICIS
Client ID:
Operator ID: DEK ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

97 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

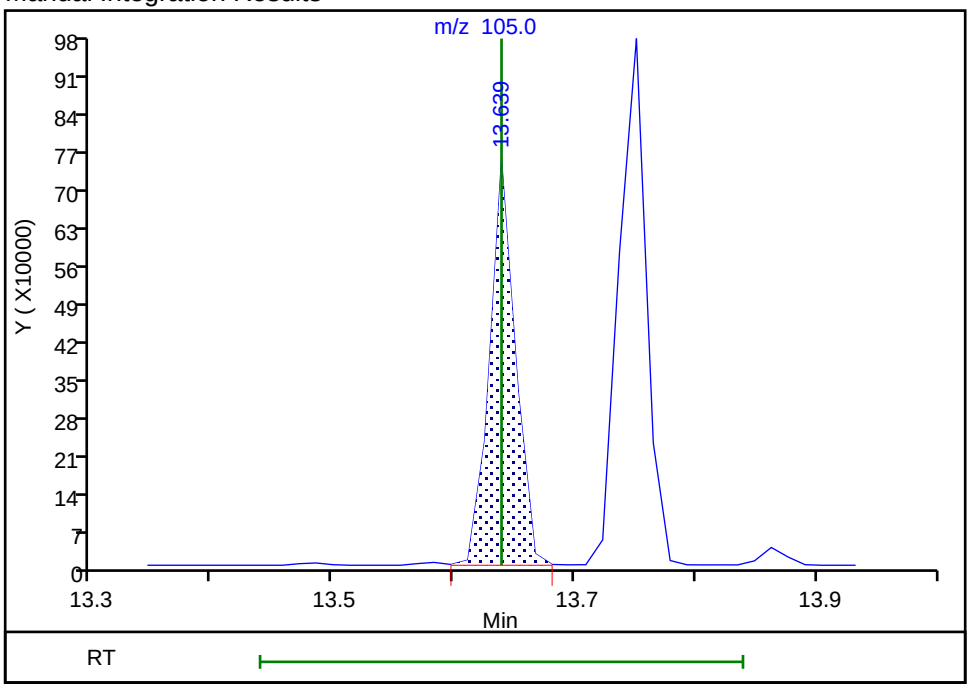
Not Detected
Expected RT: 13.64

Processing Integration Results



Manual Integration Results

RT: 13.64
Area: 1122345
Amount: 49.696361
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:09:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4083.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 18-Mar-2019 13:01:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: DEK Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 19-Mar-2019 16:06:33 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0338

First Level Reviewer: aguk Date: 18-Mar-2019 14:26:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	99	684514	100.0	82.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.416	3.402	0.014	95	186161	100.0	94.4	
3 Chloromethane	50	3.514	3.514	0.000	100	617063	100.0	90.2	
4 Vinyl chloride	62	3.681	3.681	0.000	99	689243	100.0	94.2	
122 Butadiene	39	3.709	3.709	0.000	93	605176	100.0	93.2	
5 Bromomethane	94	4.282	4.282	0.000	92	339773	100.0	85.8	
6 Chloroethane	64	4.491	4.491	0.000	98	336962	100.0	79.9	
7 Trichlorofluoromethane	101	4.743	4.743	0.000	98	957307	100.0	94.4	
123 Dichlorofluoromethane	67	4.854	4.854	0.000	97	1113949	100.0	97.2	
8 Ethyl ether	74	5.245	5.245	0.000	89	253652	100.0	106.0	
11 Ethanol	45	5.483	5.483	0.000	100	100561	4000.0	4150.2	
9 1,1-Dichloroethene	96	5.553	5.553	0.000	95	504386	100.0	100.2	
10 Carbon disulfide	76	5.595	5.595	0.000	99	1941132	100.0	99.4	
12 1,1,2-Trichloro-1,2,2-trif	151	5.609	5.609	0.000	93	392111	100.0	97.4	
13 Iodomethane	142	5.776	5.762	0.014	99	325488	100.0	103.9	
S 26 1,2-Dichloroethene, Total	96				0			203.5	
14 Acrolein	56	6.041	6.042	-0.001	99	71484	500.0	554.0	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	91	622947	100.0	100.9	
16 Isopropyl alcohol	45	6.223	6.223	0.000	98	146204	1000.0	983.1	
17 Methylene Chloride	84	6.349	6.349	0.000	88	500830	100.0	99.0	
18 Acetone	43	6.419	6.419	0.000	99	67964	100.0	103.5	
20 Methyl acetate	74	6.558	6.544	0.014	96	86038	500.0	534.5	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	97	568158	100.0	101.3	
21 Hexane	86	6.614	6.614	0.000	89	205639	100.0	100.6	
22 Methyl tert-butyl ether	73	6.656	6.656	0.000	86	1201074	100.0	105.6	
23 2-Methyl-2-propanol	59	6.768	6.768	0.000	99	267408	1000.0	1075.5	
24 Acetonitrile	41	6.991	6.991	0.000	99	257515	1000.0	1006.3	
25 Isopropyl ether	45	7.075	7.075	0.000	93	1440406	100.0	104.9	
27 2-Chloro-1,3-butadiene	53	7.229	7.229	0.000	90	897203	100.0	106.1	
28 1,1-Dichloroethane	63	7.271	7.271	-0.001	96	1055336	100.0	99.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.326	7.326	0.000	99	808931	1000.0	1045.6	
30 Tert-butyl ethyl ether	59	7.480	7.480	0.000	97	1388672	100.0	105.7	
31 Vinyl acetate	43	7.508	7.508	0.000	97	719642	100.0	109.0	
32 cis-1,2-Dichloroethene	96	7.843	7.829	0.014	84	570377	100.0	102.2	
33 2,2-Dichloropropane	77	7.955	7.955	0.000	88	1032848	100.0	100.7	
35 Chlorobromomethane	128	8.053	8.039	0.014	53	162430	100.0	100.1	
34 Cyclohexane	84	8.039	8.039	0.000	86	1089253	100.0	102.4	
36 Chloroform	83	8.095	8.095	0.000	92	988899	100.0	99.0	
39 Ethyl acetate	45	8.178	8.178	0.000	99	64836	200.0	195.3	
37 Carbon tetrachloride	117	8.248	8.248	0.000	97	752281	100.0	102.8	
38 Tetrahydrofuran	71	8.262	8.262	0.000	84	64414	200.0	196.3	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.290	0.000	93	394084	100.0	103.2	a
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	98	969490	100.0	100.4	
43 2-Butanone (MEK)	43	8.402	8.402	0.000	99	106150	100.0	107.9	
42 1,1-Dichloropropene	75	8.430	8.430	0.000	96	951069	100.0	102.5	
125 Isooctane	57	8.514	8.514	0.000	96	2525372	100.0	101.1	
117 n-Heptane	43	8.583	8.583	0.000	88	1062933	100.0	100.8	
44 Benzene	78	8.681	8.681	0.000	95	2523671	100.0	97.6	
45 Propionitrile	54	8.709	8.709	0.000	94	316908	1000.0	1038.9	
46 Methacrylonitrile	41	8.723	8.723	0.000	90	1637130	1000.0	1023.8	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	97	1346425	100.0	105.9	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	99	488618	100.0	98.2	a
50 Isobutyl alcohol	42	8.807	8.807	0.000	93	170420	2500.0	2404.7	
49 1,2-Dichloroethane	62	8.877	8.877	0.000	99	575590	100.0	97.1	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	995685	50.0	50.0	
53 Trichloroethene	95	9.212	9.212	0.000	56	609252	100.0	97.5	
52 Methylcyclohexane	55	9.212	9.212	0.000	86	935467	100.0	100.7	
54 n-Butanol	56	9.435	9.435	0.000	90	174457	2500.0	2377.7	
55 Dibromomethane	93	9.631	9.631	0.000	96	218069	100.0	102.5	
124 Ethyl acrylate	55	9.645	9.645	0.000	99	329672	100.0	96.8	
56 1,2-Dichloropropane	63	9.715	9.715	0.000	95	524941	100.0	102.5	
57 Dichlorobromomethane	83	9.743	9.743	0.000	98	683299	100.0	105.3	
58 Methyl methacrylate	69	9.840	9.840	0.000	88	469090	200.0	196.4	
59 1,4-Dioxane	88	9.924	9.924	0.000	92	57165	2000.0	2199.5	
60 2-Chloroethyl vinyl ether	63	10.217	10.217	0.000	92	200057	100.0	99.8	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	95	807061	100.0	108.2	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	93	1996661	100.0	101.9	a
63 Toluene	92	10.525	10.525	0.000	98	1544149	100.0	105.0	
64 2-Nitropropane	43	10.748	10.748	0.000	99	147268	200.0	202.9	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	96	233106	100.0	96.4	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	97	670505	100.0	108.4	
65 Tetrachloroethene	164	10.888	10.888	0.000	95	478716	100.0	98.6	
69 Ethyl methacrylate	69	10.972	10.972	0.000	87	463365	100.0	96.6	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	93	277613	100.0	103.6	
70 Chlorodibromomethane	129	11.223	11.223	0.000	91	305738	100.0	110.5	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	89	628574	100.0	104.1	
119 n-Butyl acetate	43	11.446	11.446	0.000	98	404083	100.0	95.9	
72 Ethylene Dibromide	107	11.474	11.474	0.000	98	272356	100.0	106.6	
74 2-Hexanone	43	11.572	11.572	0.000	96	158553	100.0	95.9	
S 73 1,3-Dichloropropene, Total	75				0			216.6	
75 1-Chlorohexane	91	11.837	11.838	-0.001	96	955522	100.0	109.6	
78 Ethylbenzene	91	11.907	11.907	0.000	99	2966409	100.0	100.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.907	11.907	0.000	93	631188	50.0	50.0	
77 Chlorobenzene	112	11.921	11.921	0.000	94	1343616	100.0	99.9	
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	94	391608	100.0	103.7	
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	99	1045594	100.0	105.4	
82 o-Xylene	106	12.438	12.438	0.000	98	956491	100.0	110.9	
83 Styrene	104	12.480	12.480	0.000	93	1557280	100.0	98.6	
84 Bromoform	173	12.550	12.550	0.000	95	201704	100.0	96.9	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	2799114	100.0	105.3	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.011	0.000	87	703554	100.0	104.9	a
88 N-Propylbenzene	91	13.094	13.094	0.000	98	3529390	100.0	104.8	
87 Bromobenzene	156	13.136	13.136	0.000	93	515620	100.0	101.7	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	94	358485	100.0	105.7	
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	94	2256167	100.0	105.9	
90 2-Chlorotoluene	91	13.276	13.276	0.000	94	2242641	100.0	102.0	
92 1,2,3-Trichloropropane	110	13.318	13.318	0.000	82	102432	100.0	105.2	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	94	96407	100.0	110.9	
94 Cyclohexanone	55	13.402	13.402	0.000	88	77048	1000.0	951.5	
95 4-Chlorotoluene	91	13.430	13.430	0.000	98	2019712	100.0	103.4	
96 tert-Butylbenzene	119	13.583	13.583	0.000	91	1871042	100.0	103.7	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	98	2248534	100.0	104.5	
98 sec-Butylbenzene	105	13.751	13.751	0.000	95	3124704	100.0	103.8	
99 4-Isopropyltoluene	119	13.863	13.863	0.000	96	2429142	100.0	105.7	
100 1,3-Dichlorobenzene	146	14.016	14.016	0.000	96	963800	100.0	100.2	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	57	304729	50.0	50.0	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	98	2075216	100.0	102.9	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	87	937300	100.0	98.1	
103 n-Butylbenzene	134	14.282	14.282	0.000	97	572700	100.0	105.2	
121 Benzyl chloride	126	14.323	14.324	-0.001	97	122744	100.0	98.0	
104 1,2-Dichlorobenzene	146	14.519	14.519	0.000	95	804436	100.0	99.3	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	89	206039	100.0	99.9	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	80	53957	100.0	96.7	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	96	876511	100.0	100.1	
108 Hexachlorobutadiene	225	15.902	15.902	0.000	94	594353	100.0	100.5	
109 1,2,4-Trichlorobenzene	180	15.971	15.972	-0.001	92	659034	100.0	102.1	
110 Naphthalene	128	16.321	16.321	0.000	98	771166	100.0	110.7	
S 112 Xylenes, Total	106				0			216.3	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	94	525307	100.0	101.4	
S 113 Trihalomethanes, Total	1				0			411.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

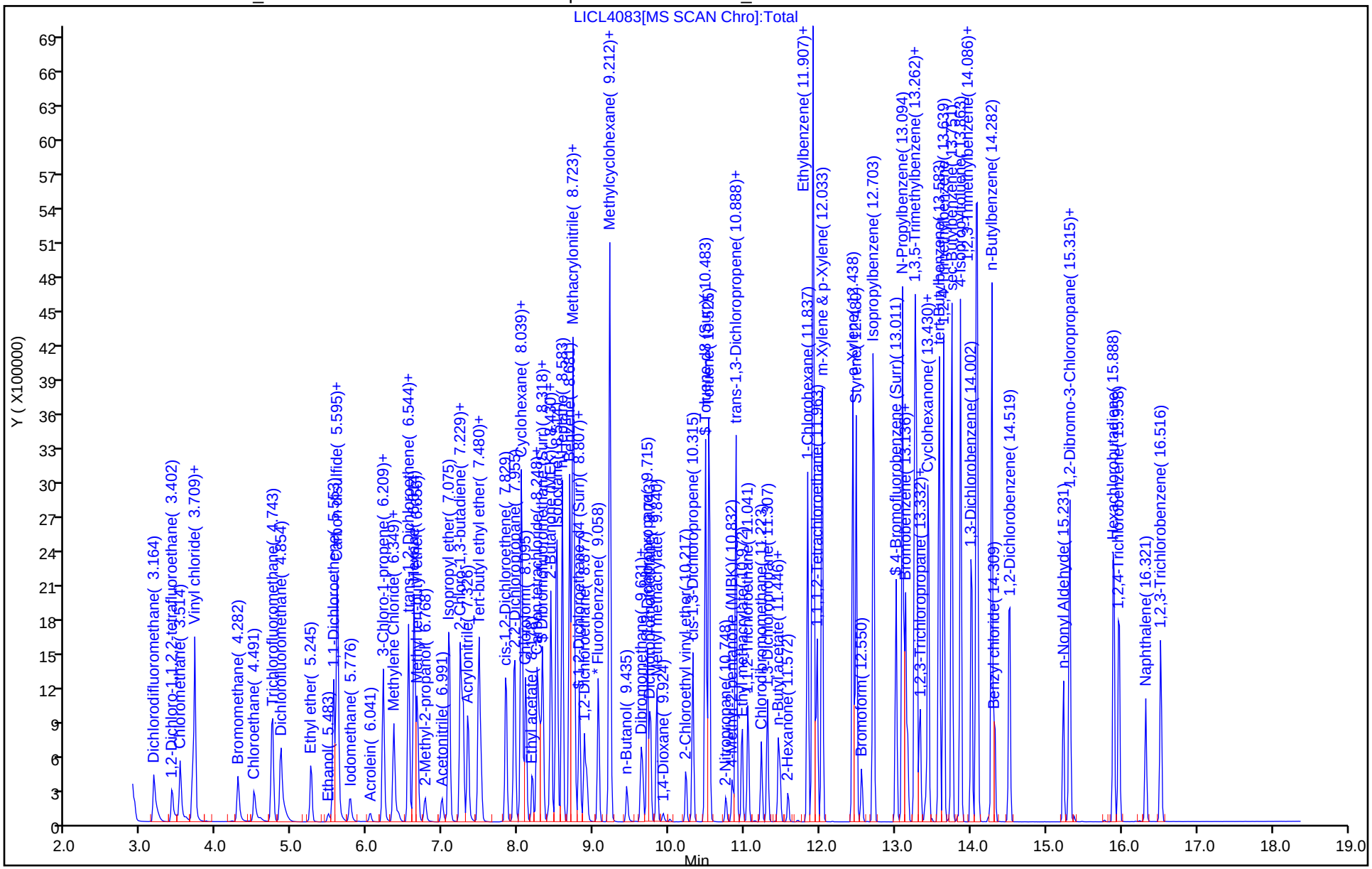
8260NewHiWrk_00289	Amount Added: 4.00	Units: uL	
8260 Surr 25_00096	Amount Added: 20.00	Units: uL	
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 19-Mar-2019 16:06:33 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4083.D

Injection Date:	18-Mar-2019 13:01:30	Instrument ID:	VMSL	Operator ID:	DEK
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

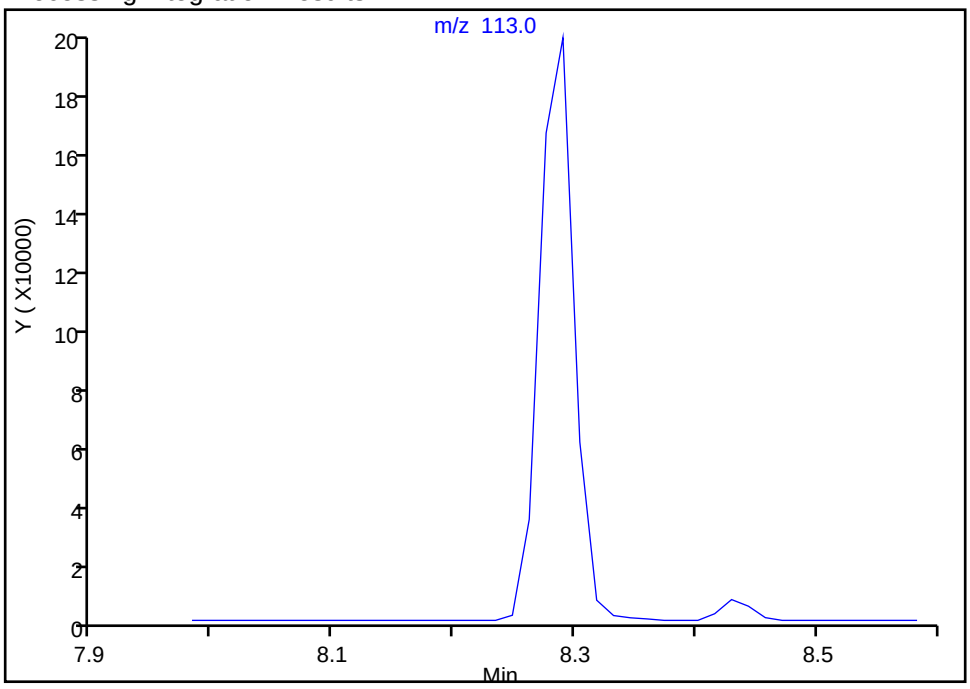
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Injection Date: 18-Mar-2019 13:01:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 41 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

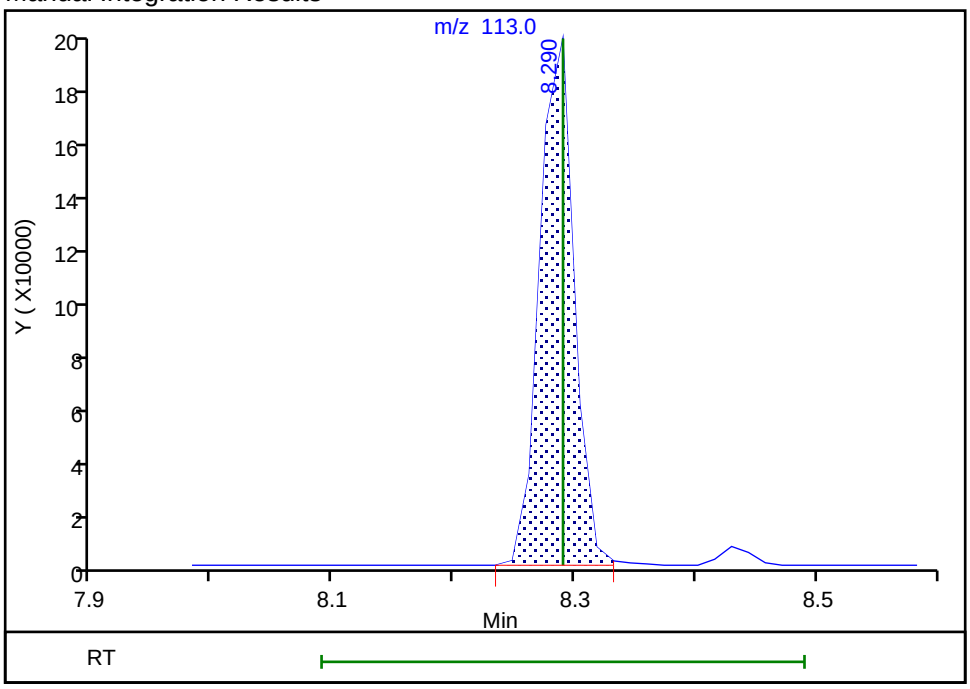
Not Detected
Expected RT: 8.29

Processing Integration Results



Manual Integration Results

RT: 8.29
Area: 394084
Amount: 103.1682
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:25:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

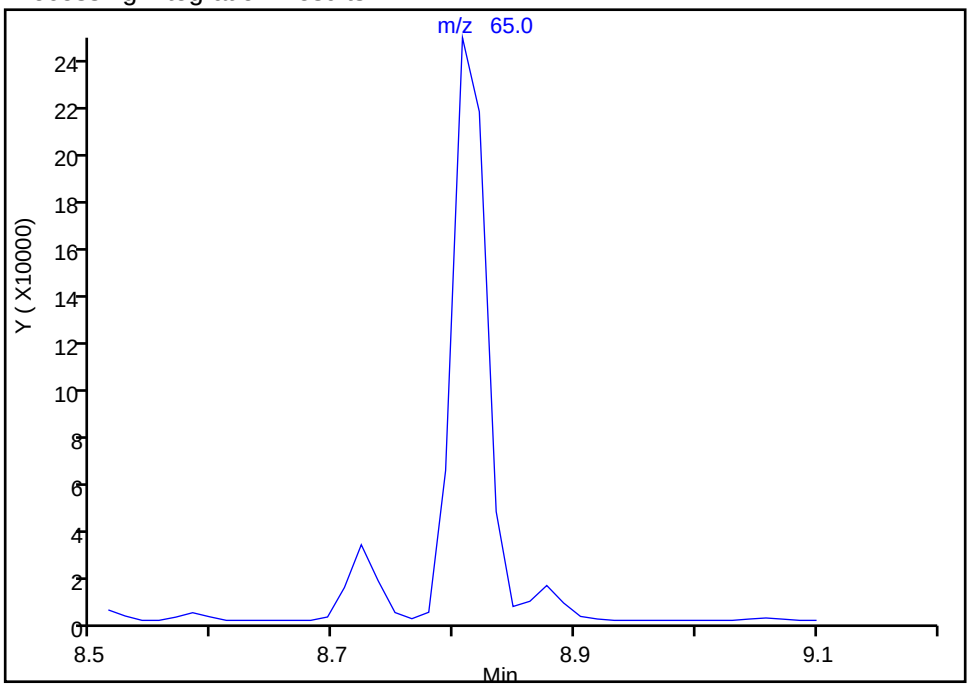
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Injection Date: 18-Mar-2019 13:01:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 47 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

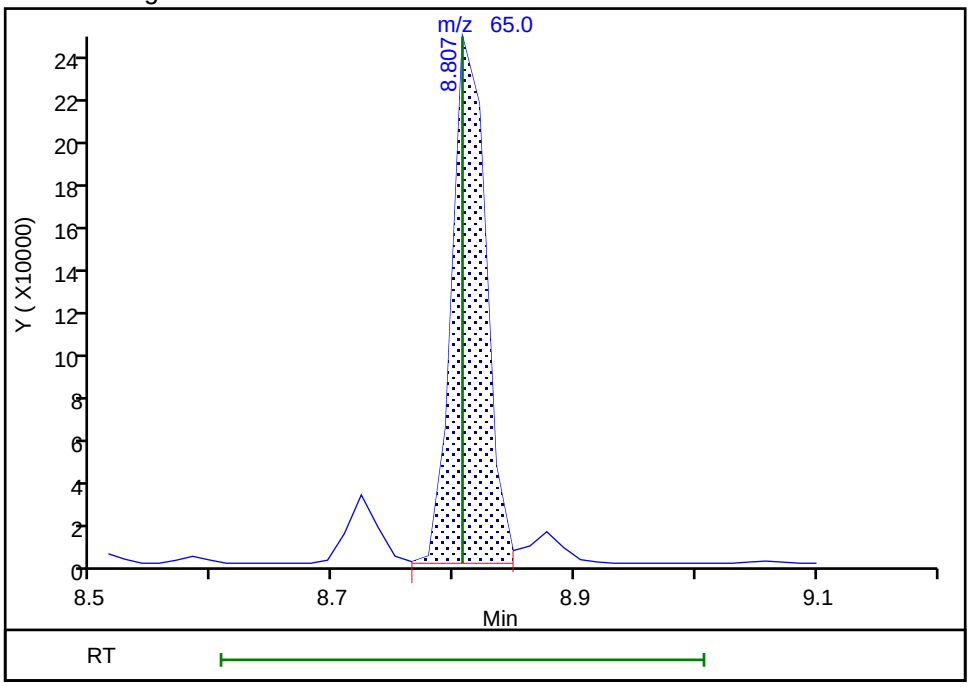
Not Detected
Expected RT: 8.81

Processing Integration Results



Manual Integration Results

RT: 8.81
Area: 488618
Amount: 98.249290
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:25:15
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

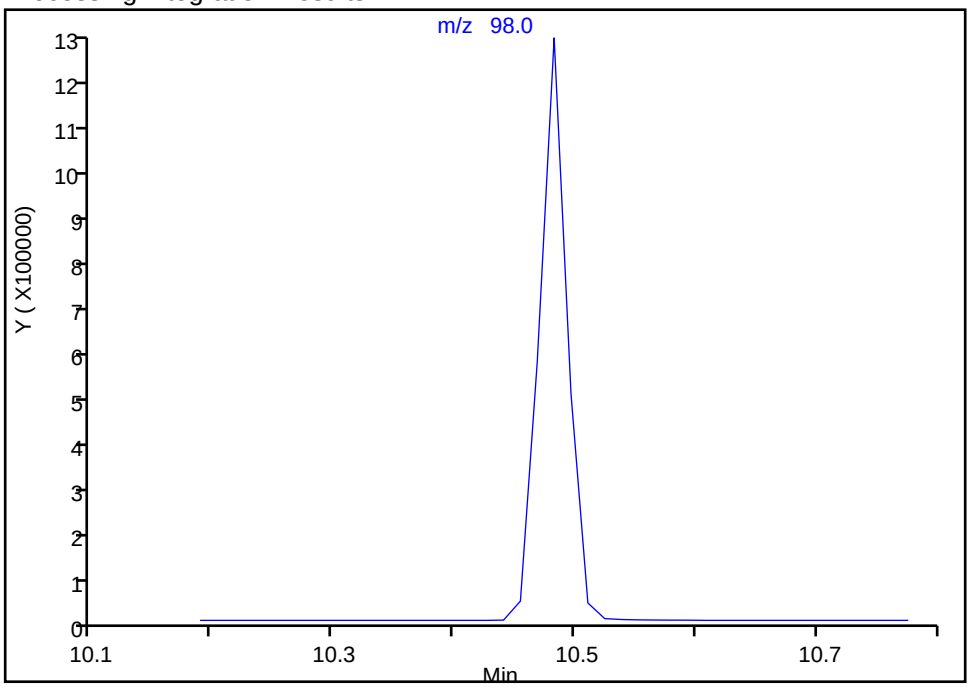
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4083.D
Injection Date: 18-Mar-2019 13:01:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 62 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

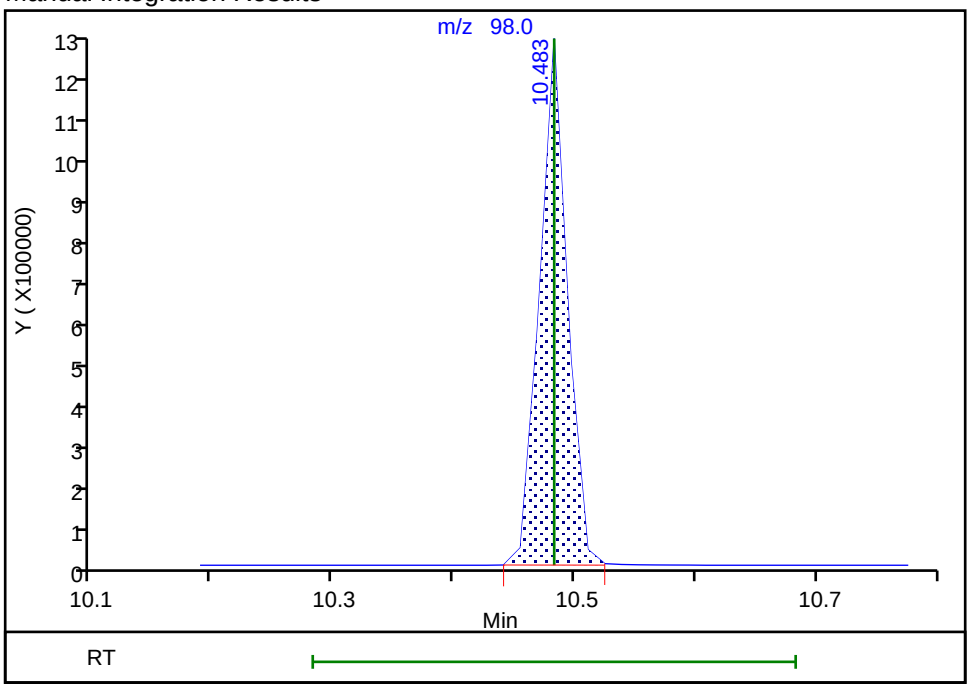
Not Detected
Expected RT: 10.48

Processing Integration Results



Manual Integration Results

RT: 10.48
Area: 1996661
Amount: 101.9242
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:25:22
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

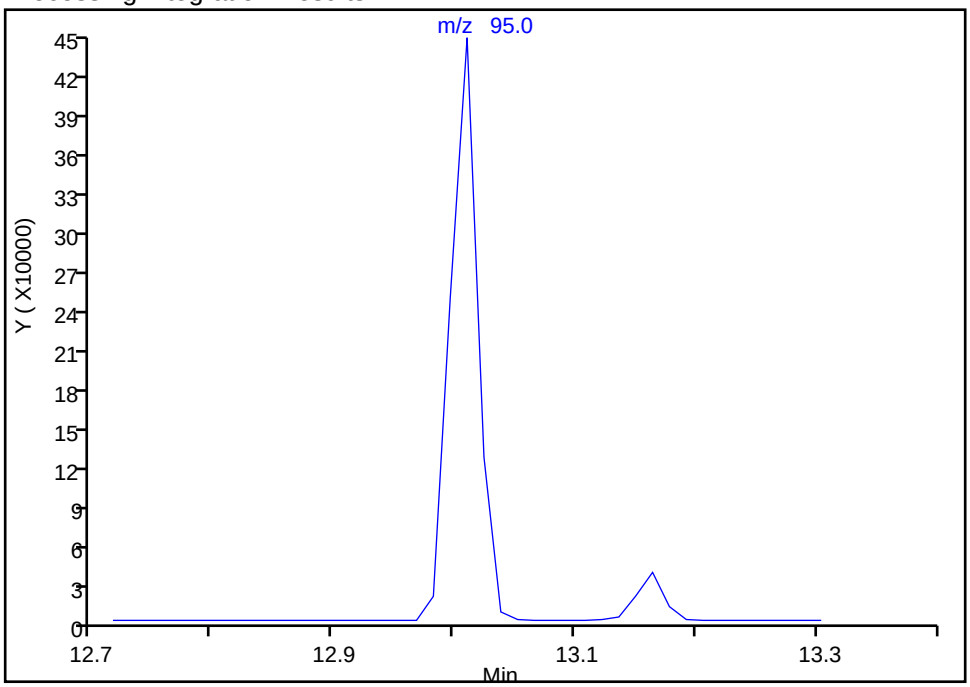
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Injection Date: 18-Mar-2019 13:01:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

$ 86 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 1

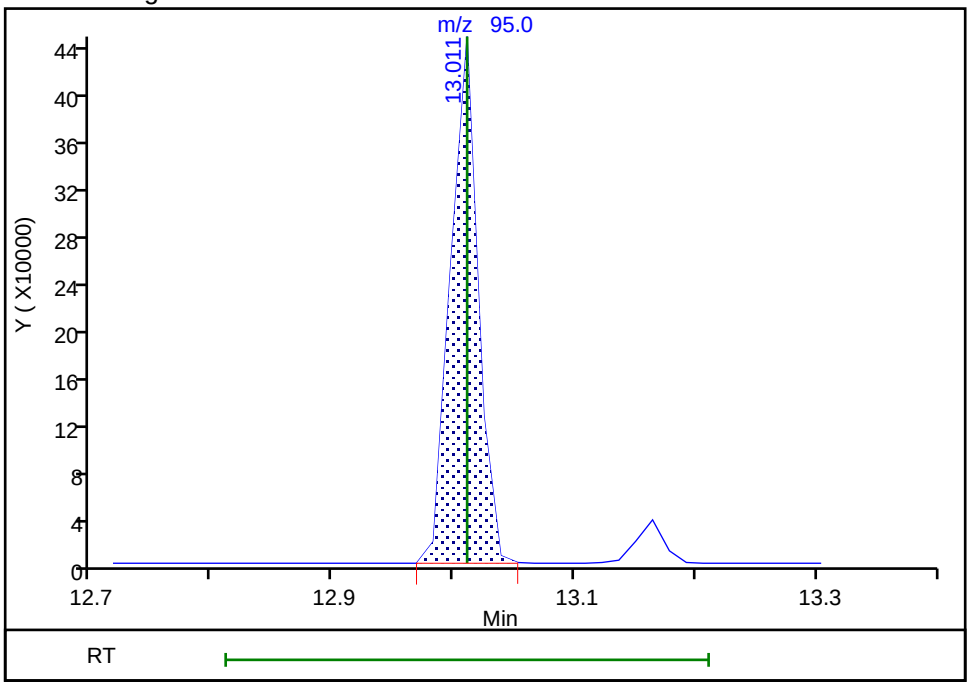
Not Detected
Expected RT: 13.01

Processing Integration Results



Manual Integration Results

RT: 13.01
Area: 703554
Amount: 104.8859
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:25:32
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Report Date: 19-Mar-2019 16:06:37 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4084.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 18-Mar-2019 13:26:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: DEK Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 19-Mar-2019 16:06:36 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0338

First Level Reviewer: aguk Date: 18-Mar-2019 13:49:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	100	1412741	200.0	165.7	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.416	3.402	0.014	96	386953	200.0	192.2	
3 Chloromethane	50	3.513	3.514	-0.001	99	1278071	200.0	183.0	
4 Vinyl chloride	62	3.681	3.681	0.000	99	1448529	200.0	193.8	
122 Butadiene	39	3.709	3.709	0.000	91	1202476	200.0	181.4	
5 Bromomethane	94	4.282	4.282	0.000	92	704060	200.0	174.1	
6 Chloroethane	64	4.505	4.491	0.014	98	861713	200.0	200.2	
7 Trichlorofluoromethane	101	4.742	4.743	-0.001	98	1949003	200.0	188.2	
123 Dichlorofluoromethane	67	4.854	4.854	0.000	97	2282979	200.0	195.0	
8 Ethyl ether	74	5.245	5.245	0.000	88	537000	200.0	219.7	
11 Ethanol	45	5.469	5.483	-0.014	100	216424	8000.0	8747.1	
9 1,1-Dichloroethene	96	5.553	5.553	-0.001	97	1049060	200.0	204.1	
10 Carbon disulfide	76	5.594	5.595	-0.001	99	4019992	200.0	201.7	
12 1,1,2-Trichloro-1,2,2-trif	151	5.608	5.609	-0.001	54	787796	200.0	191.6	
13 Iodomethane	142	5.776	5.762	0.014	99	708377	200.0	199.4	
S 26 1,2-Dichloroethene, Total	96				0			409.3	
14 Acrolein	56	6.041	6.042	-0.001	99	161028	1000.0	1222.2	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	91	1280229	200.0	203.2	
16 Isopropyl alcohol	45	6.223	6.223	0.000	98	320515	2000.0	2110.6	
17 Methylene Chloride	84	6.349	6.349	0.000	88	1043243	200.0	201.9	
18 Acetone	43	6.404	6.419	-0.015	100	144118	200.0	215.0	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	97	1154229	200.0	201.5	
20 Methyl acetate	74	6.544	6.544	0.000	96	180605	1000.0	1098.7	
21 Hexane	86	6.614	6.614	0.000	90	427577	200.0	204.8	
22 Methyl tert-butyl ether	73	6.656	6.656	0.000	86	2542013	200.0	218.8	
23 2-Methyl-2-propanol	59	6.768	6.768	0.000	99	603148	2000.0	2375.5	
24 Acetonitrile	41	6.991	6.991	0.000	99	533060	2000.0	2040.0	
25 Isopropyl ether	45	7.075	7.075	0.000	92	2995164	200.0	213.7	
27 2-Chloro-1,3-butadiene	53	7.228	7.229	-0.001	91	1868929	200.0	216.4	
28 1,1-Dichloroethane	63	7.270	7.271	-0.001	98	2207952	200.0	204.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.326	7.326	0.000	99	1676696	2000.0	2122.4	
30 Tert-butyl ethyl ether	59	7.480	7.480	0.000	97	2936596	200.0	218.9	
31 Vinyl acetate	43	7.508	7.508	0.000	97	1462336	200.0	216.9	
32 cis-1,2-Dichloroethene	96	7.843	7.829	0.014	81	1184293	200.0	207.8	
33 2,2-Dichloropropane	77	7.955	7.955	0.000	87	2141760	200.0	204.4	
34 Cyclohexane	84	8.038	8.039	-0.001	86	2226134	200.0	204.9	
35 Chlorobromomethane	128	8.052	8.039	0.013	53	329369	200.0	198.8	
36 Chloroform	83	8.094	8.095	-0.001	92	2066037	200.0	202.5	
39 Ethyl acetate	45	8.178	8.178	0.000	99	139783	400.0	408.3	
37 Carbon tetrachloride	117	8.248	8.248	0.000	97	1558601	200.0	208.5	
38 Tetrahydrofuran	71	8.262	8.262	0.000	83	138634	400.0	408.4	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.290	0.000	93	803388	200.0	206.0	
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	98	2006790	200.0	203.6	
43 2-Butanone (MEK)	43	8.402	8.402	0.000	98	218987	200.0	218.0	
42 1,1-Dichloropropene	75	8.430	8.430	0.000	96	1975476	200.0	208.5	
125 Isooctane	57	8.513	8.514	-0.001	96	5126226	200.0	201.0	
117 n-Heptane	43	8.583	8.583	0.000	87	2154795	200.0	200.1	
44 Benzene	78	8.681	8.681	0.000	95	5218007	200.0	197.6	
45 Propionitrile	54	8.709	8.709	0.000	93	655733	2000.0	2105.1	
46 Methacrylonitrile	41	8.723	8.723	0.000	89	3300590	2000.0	2021.4	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	98	2839191	200.0	218.7	
50 Isobutyl alcohol	42	8.807	8.807	0.000	93	379195	5000.0	5160.4	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.821	8.807	0.014	99	1005062	200.0	197.9	
49 1,2-Dichloroethane	62	8.876	8.877	-0.001	99	1199940	200.0	198.2	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1016729	50.0	50.0	
52 Methylcyclohexane	55	9.212	9.212	0.000	85	1880144	200.0	198.3	
53 Trichloroethene	95	9.212	9.212	0.000	56	1253030	200.0	196.3	
54 n-Butanol	56	9.435	9.435	0.000	88	402130	5000.0	5257.7	
55 Dibromomethane	93	9.631	9.631	0.000	96	461187	200.0	212.3	
124 Ethyl acrylate	55	9.645	9.645	0.000	99	735931	200.0	208.2	
56 1,2-Dichloropropane	63	9.714	9.715	-0.001	95	1094110	200.0	209.2	
57 Dichlorobromomethane	83	9.756	9.743	0.013	98	1460151	200.0	220.3	
58 Methyl methacrylate	69	9.840	9.840	0.000	88	1017289	400.0	411.0	
59 1,4-Dioxane	88	9.924	9.924	0.000	93	123987	4000.0	4671.8	
60 2-Chloroethyl vinyl ether	63	10.217	10.217	0.000	92	424461	200.0	204.4	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	95	1704707	200.0	223.8	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	4080575	200.0	206.3	
63 Toluene	92	10.524	10.525	-0.001	99	3202043	200.0	215.6	
64 2-Nitropropane	43	10.748	10.748	0.000	98	338500	400.0	399.6	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	96	519548	200.0	209.4	
65 Tetrachloroethene	164	10.888	10.888	0.000	91	982221	200.0	200.4	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	96	1429444	200.0	228.9	
69 Ethyl methacrylate	69	10.971	10.972	-0.001	86	1041547	200.0	210.4	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	92	583066	200.0	215.4	
70 Chlorodibromomethane	129	11.223	11.223	0.000	90	658939	200.0	235.9	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	89	1322065	200.0	216.9	
119 n-Butyl acetate	43	11.446	11.446	0.000	98	906165	200.0	209.3	
72 Ethylene Dibromide	107	11.474	11.474	0.000	99	568317	200.0	220.4	
74 2-Hexanone	43	11.572	11.572	0.000	96	358111	200.0	210.5	
S 73 1,3-Dichloropropene, Total	75				0			452.7	
75 1-Chlorohexane	91	11.837	11.838	-0.001	96	1987914	200.0	225.9	a
* 76 Chlorobenzene-d5	117	11.907	11.907	0.000	43	637257	50.0	50.0	a

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.907	11.907	0.000	98	6044725	200.0	203.7	a
77 Chlorobenzene	112	11.921	11.921	0.000	88	2756296	200.0	202.9	
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	95	819184	200.0	214.9	
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	99	2159611	200.0	215.7	
82 o-Xylene	106	12.438	12.438	0.000	98	1979727	200.0	227.3	
83 Styrene	104	12.480	12.480	0.000	93	3311150	200.0	204.9	
84 Bromoform	173	12.550	12.550	0.000	95	453433	200.0	209.4	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	5710290	200.0	209.9	
$ 86 4-Bromofluorobenzene (Surr	95	13.010	13.011	-0.001	87	1395500	200.0	203.4	
88 N-Propylbenzene	91	13.094	13.094	0.000	98	7214183	200.0	209.4	
87 Bromobenzene	156	13.136	13.136	0.000	93	1071561	200.0	206.7	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	94	754029	200.0	217.3	
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	94	4598946	200.0	211.1	
90 2-Chlorotoluene	91	13.276	13.276	0.000	94	4599543	200.0	204.5	
92 1,2,3-Trichloropropane	110	13.318	13.318	0.000	82	215565	200.0	216.5	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	81	208360	200.0	234.3	
94 Cyclohexanone	55	13.402	13.402	0.000	87	178024	2000.0	2110.4	
95 4-Chlorotoluene	91	13.443	13.430	0.013	98	4190677	200.0	209.8	
96 tert-Butylbenzene	119	13.583	13.583	0.000	91	3842397	200.0	208.3	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	98	4626483	200.0	210.3	
98 sec-Butylbenzene	105	13.751	13.751	0.000	96	6325907	200.0	205.5	
99 4-Isopropyltoluene	119	13.862	13.863	-0.001	96	4967522	200.0	211.4	
100 1,3-Dichlorobenzene	146	14.016	14.016	0.000	95	1990592	200.0	202.3	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	99	4222235	200.0	204.8	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	70	311667	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	88	1907288	200.0	195.2	
103 n-Butylbenzene	134	14.281	14.282	-0.001	96	1173097	200.0	210.7	
121 Benzyl chloride	126	14.323	14.324	-0.001	97	269890	200.0	207.1	
104 1,2-Dichlorobenzene	146	14.519	14.519	0.000	94	1673883	200.0	201.9	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	90	517491	200.0	200.0	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	82	120855	200.0	208.0	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	96	1834846	200.0	204.9	
108 Hexachlorobutadiene	225	15.901	15.902	-0.001	94	1226273	200.0	202.8	
109 1,2,4-Trichlorobenzene	180	15.971	15.972	-0.001	93	1376222	200.0	208.5	
110 Naphthalene	128	16.320	16.321	-0.001	98	1657686	200.0	232.7	
S 112 Xylenes, Total	106				0			442.9	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	94	1094608	200.0	206.5	
S 113 Trihalomethanes, Total	1				0			868.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

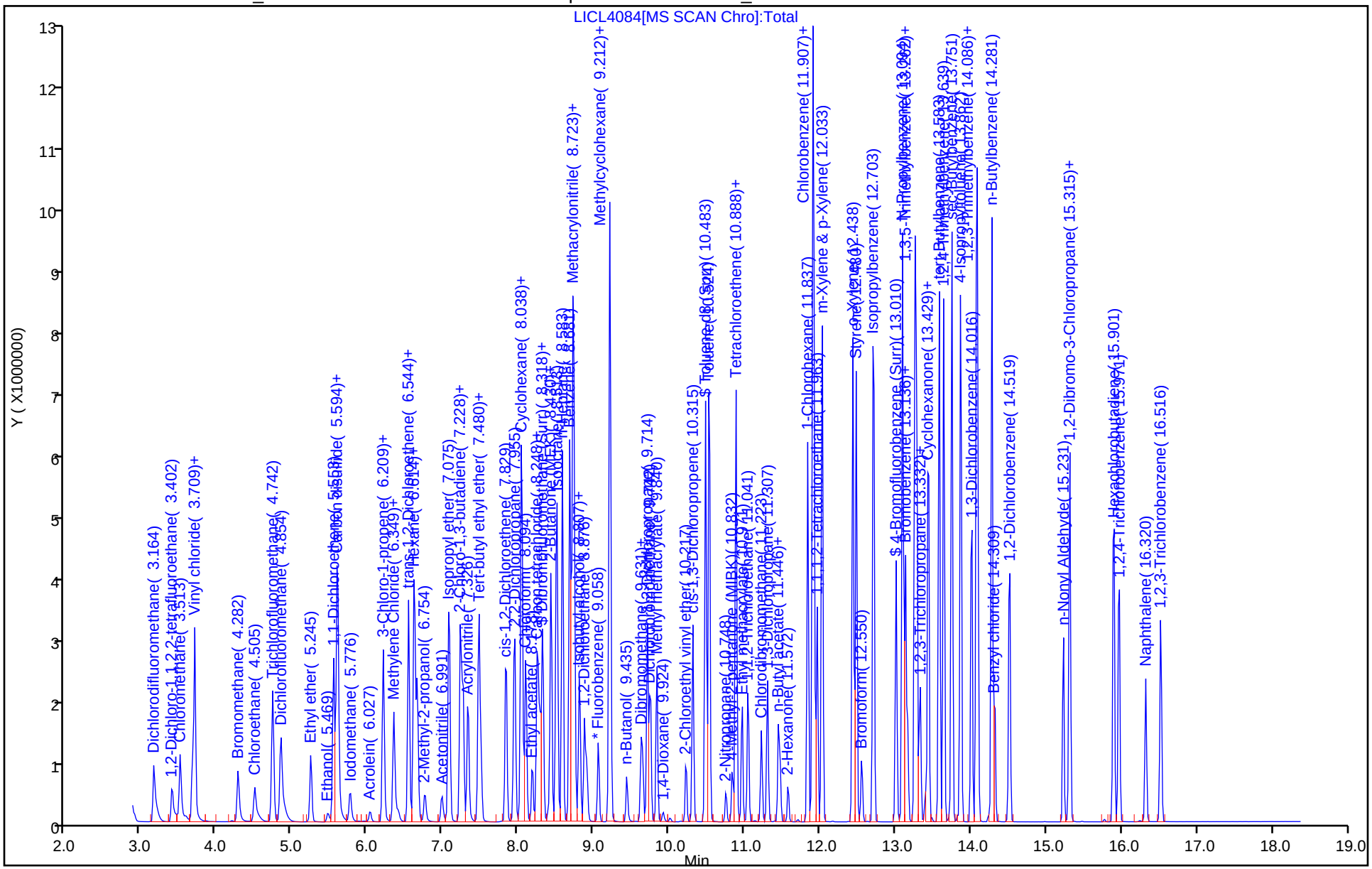
8260NewHiWrk_00289	Amount Added: 8.00	Units: uL	
8260_Surr_00078	Amount Added: 0.40	Units: uL	
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 19-Mar-2019 16:06:37 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4084.D

Injection Date:	18-Mar-2019 13:26:30	Instrument ID:	VMSL	Operator ID:	DEK
Lims ID:	IC			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

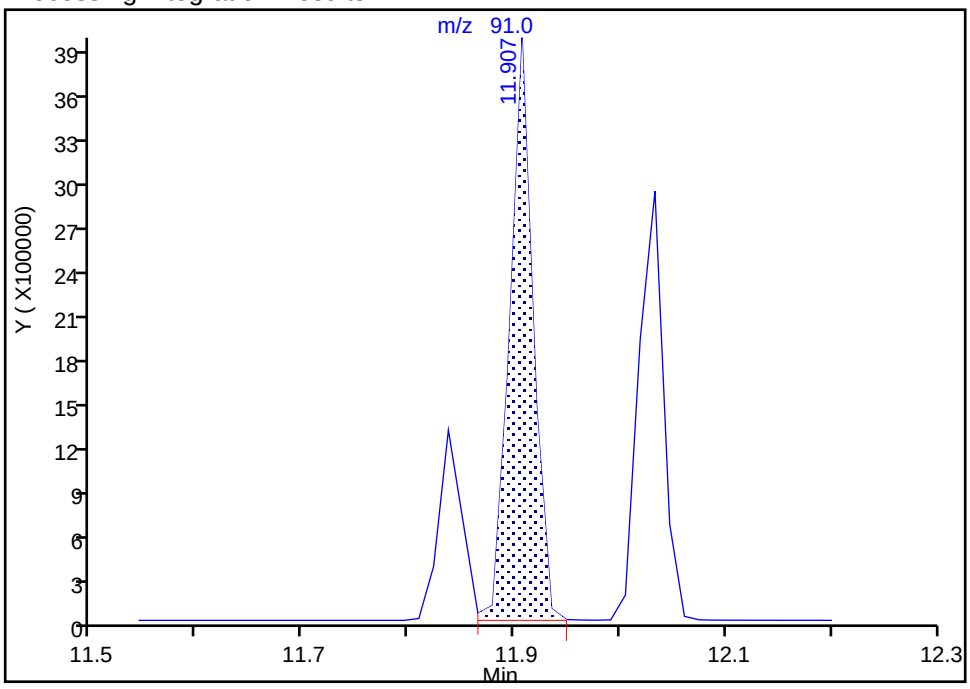
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Injection Date: 18-Mar-2019 13:26:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

75 1-Chlorohexane, CAS: 544-10-5

Signal: 1

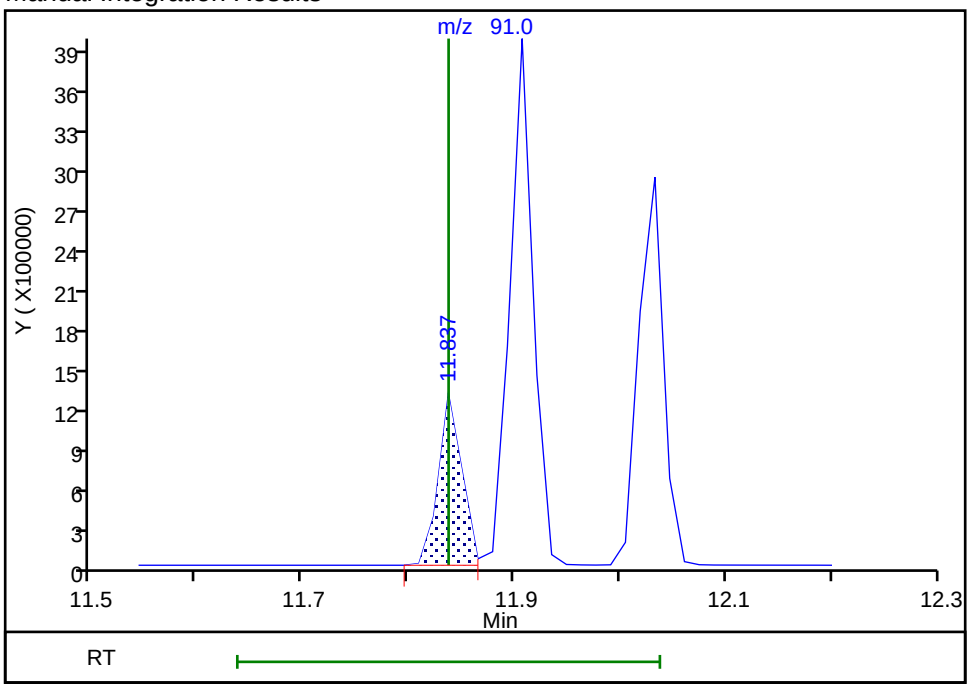
Processing Integration Results

RT: 11.91
Area: 6044725
Amount: 547.9114
Amount Units: ug/l



Manual Integration Results

RT: 11.84
Area: 1987914
Amount: 225.9038
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:27:13
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

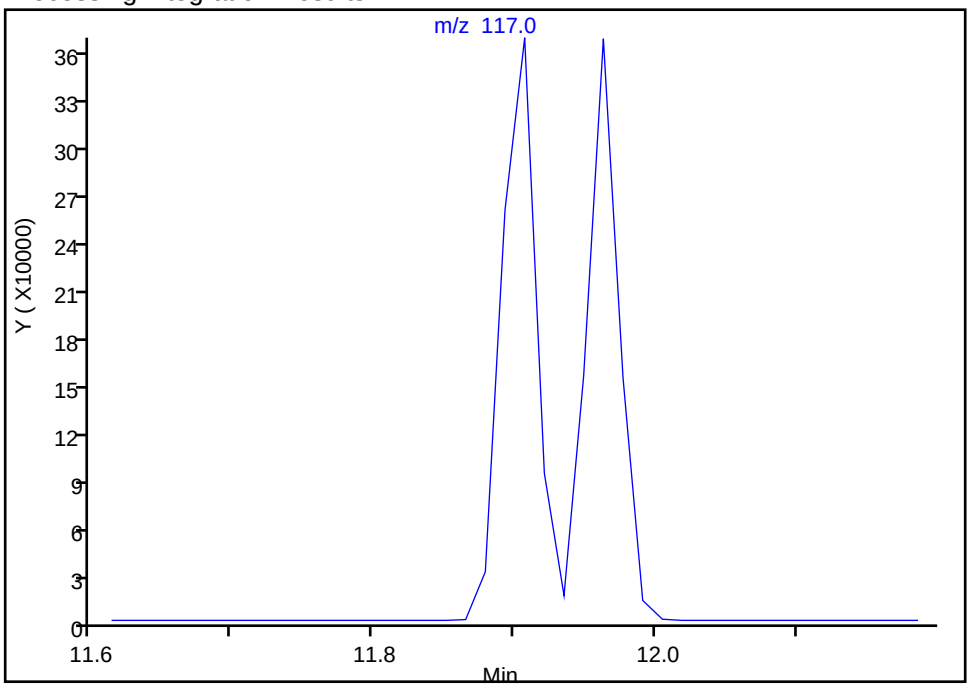
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Injection Date: 18-Mar-2019 13:26:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

* 76 Chlorobenzene-d5, CAS: 3114-55-4

Signal: 1

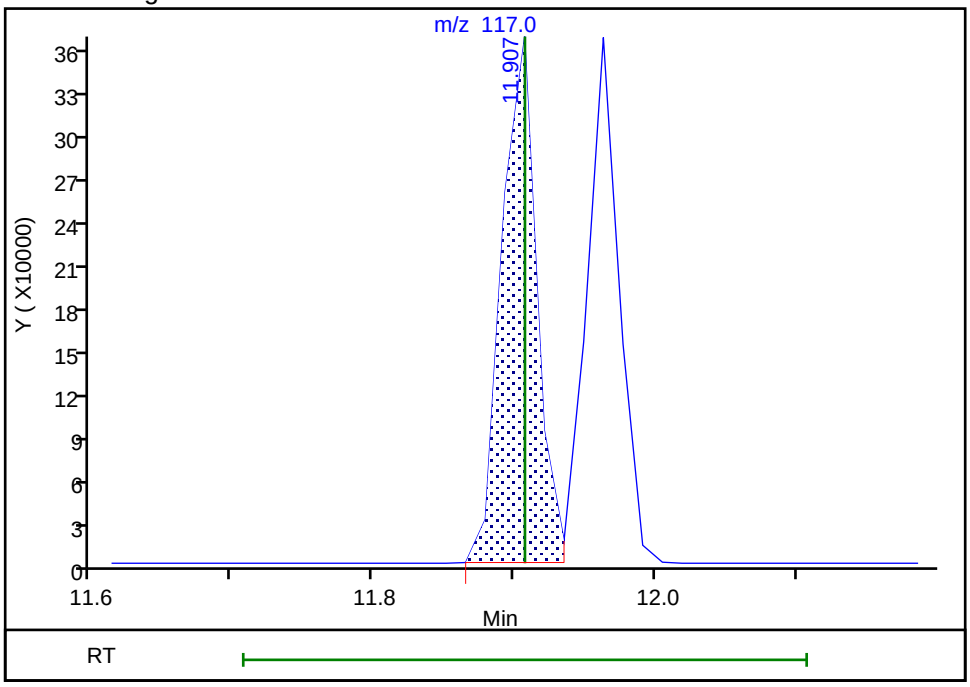
Not Detected
Expected RT: 11.91

Processing Integration Results



Manual Integration Results

RT: 11.91
Area: 637257
Amount: 50.000000
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:26:28
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

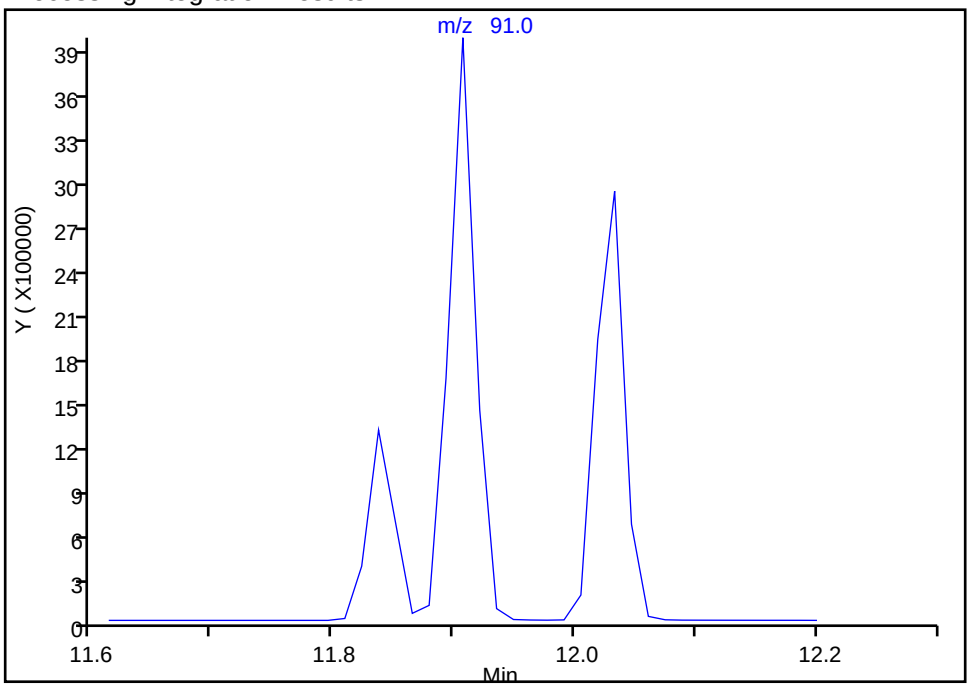
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4084.D
Injection Date: 18-Mar-2019 13:26:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

78 Ethylbenzene, CAS: 100-41-4

Signal: 1

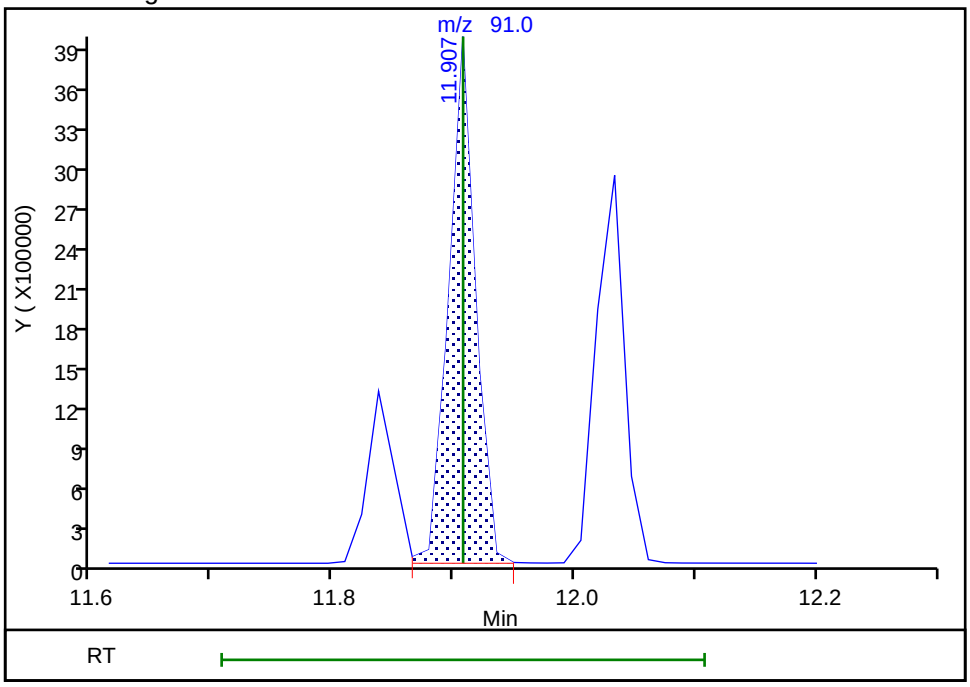
Not Detected
Expected RT: 11.91

Processing Integration Results



Manual Integration Results

RT: 11.91
Area: 6044725
Amount: 203.6550
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 14:27:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Report Date: 19-Mar-2019 16:06:18 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Mar-2019 17:13:30 ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: DEK Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 19-Mar-2019 16:06:17 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0338

First Level Reviewer: aguk Date: 18-Mar-2019 17:37:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	99	40513	5.00	5.21	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.416	3.402	0.014	94	8367	5.00	4.56	
3 Chloromethane	50	3.514	3.514	0.000	100	32865	5.00	5.16	
4 Vinyl chloride	62	3.681	3.681	0.000	97	33043	5.00	4.85	
122 Butadiene	39	3.709	3.709	0.000	95	30636	5.00	5.07	
5 Bromomethane	94	4.282	4.282	0.000	92	18854	5.00	5.11	
6 Chloroethane	64	4.505	4.491	0.014	98	21438	5.00	5.46	
7 Trichlorofluoromethane	101	4.743	4.743	0.000	99	47841	5.00	5.07	
123 Dichlorofluoromethane	67	4.854	4.854	0.000	97	52405	5.00	4.91	
8 Ethyl ether	74	5.245	5.245	0.000	89	9451	5.00	4.24	
11 Ethanol	45	5.483	5.483	0.000	95	3665	200.0	162.5	
9 1,1-Dichloroethene	96	5.553	5.553	0.000	95	22340	5.00	4.77	
10 Carbon disulfide	76	5.595	5.595	0.000	100	83347	5.00	4.59	
12 1,1,2-Trichloro-1,2,2-trif	151	5.609	5.609	0.000	93	18082	5.00	4.82	
13 Iodomethane	142	5.776	5.762	0.014	94	5430	5.00	9.79	a
S 26 1,2-Dichloroethene, Total	96				0			9.34	
14 Acrolein	56	6.042	6.042	0.000	97	2565	25.0	21.4	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	89	27482	5.00	4.78	
16 Isopropyl alcohol	45	6.223	6.223	0.000	96	7024	50.0	50.7	
17 Methylene Chloride	84	6.349	6.349	0.000	89	22366	5.00	4.75	
18 Acetone	43	6.419	6.419	0.000	94	2722	5.00	4.45	a
20 Methyl acetate	74	6.558	6.544	0.014	96	2977	25.0	19.9	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	96	25146	5.00	4.82	
21 Hexane	86	6.614	6.614	0.000	93	8514	5.00	4.47	
22 Methyl tert-butyl ether	73	6.656	6.656	0.000	80	45265	5.00	4.27	
23 2-Methyl-2-propanol	59	6.754	6.768	-0.014	97	8866	50.0	38.3	
24 Acetonitrile	41	6.991	6.991	0.000	100	11336	50.0	47.6	
25 Isopropyl ether	45	7.075	7.075	0.000	90	55022	5.00	4.31	
27 2-Chloro-1,3-butadiene	53	7.229	7.229	0.000	91	33716	5.00	4.28	
28 1,1-Dichloroethane	63	7.271	7.271	0.000	96	46294	5.00	4.70	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.326	7.326	0.000	99	30702	50.0	42.6	
30 Tert-butyl ethyl ether	59	7.480	7.480	0.000	97	51568	5.00	4.22	
31 Vinyl acetate	43	7.508	7.508	0.000	97	27252	5.00	4.43	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	81	23534	5.00	4.53	
33 2,2-Dichloropropane	77	7.955	7.955	0.000	89	46100	5.00	4.83	
35 Chlorobromomethane	128	8.039	8.039	0.000	55	7078	5.00	4.69	
34 Cyclohexane	84	8.039	8.039	0.000	88	45360	5.00	4.58	
36 Chloroform	83	8.095	8.095	0.000	92	44987	5.00	4.84	
39 Ethyl acetate	45	8.178	8.178	0.000	88	1916	10.0	9.63	
37 Carbon tetrachloride	117	8.248	8.248	0.000	95	31678	5.00	4.65	
38 Tetrahydrofuran	71	8.276	8.262	0.014	49	1696	10.0	10.2	
$ 41 Dibromofluoromethane (Surr	113	8.276	8.290	-0.014	94	17118	5.00	4.81	
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	98	42110	5.00	4.68	
43 2-Butanone (MEK)	43	8.402	8.402	0.000	90	3688	5.00	4.03	
42 1,1-Dichloropropene	75	8.430	8.430	0.000	96	39941	5.00	4.62	
125 Isooctane	57	8.514	8.514	0.000	97	106070	5.00	4.56	
117 n-Heptane	43	8.583	8.583	0.000	88	45136	5.00	4.60	
44 Benzene	78	8.681	8.681	0.000	93	110498	5.00	4.59	
45 Propionitrile	54	8.709	8.709	0.000	89	11623	50.0	40.9	
46 Methacrylonitrile	41	8.723	8.723	0.000	91	64508	50.0	43.3	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	98	49842	5.00	4.21	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	99	23668	5.00	5.11	
50 Isobutyl alcohol	42	8.807	8.807	0.000	88	4132	125.0	128.2	
49 1,2-Dichloroethane	62	8.877	8.877	0.000	99	25339	5.00	4.59	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	927024	50.0	50.0	
53 Trichloroethene	95	9.212	9.212	0.000	58	26813	5.00	4.61	
52 Methylcyclohexane	55	9.212	9.212	0.000	87	40911	5.00	4.73	
54 n-Butanol	56	9.435	9.435	0.000	90	4077	125.0	144.6	
55 Dibromomethane	93	9.631	9.631	0.000	97	8817	5.00	4.45	
124 Ethyl acrylate	55	9.645	9.645	0.000	94	9400	5.00	5.74	
56 1,2-Dichloropropane	63	9.715	9.715	0.000	92	21383	5.00	4.48	
57 Dichlorobromomethane	83	9.743	9.743	0.000	97	25818	5.00	4.27	
58 Methyl methacrylate	69	9.840	9.840	0.000	91	12526	10.0	10.9	
59 1,4-Dioxane	88	9.924	9.924	0.000	82	1878	100.0	77.6	
60 2-Chloroethyl vinyl ether	63	10.217	10.217	0.000	42	5812	5.00	5.73	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	93	28307	5.00	4.08	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	88603	5.00	4.89	
63 Toluene	92	10.525	10.525	0.000	98	62141	5.00	4.57	
64 2-Nitropropane	43	10.748	10.748	0.000	97	3916	10.0	12.2	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	96	6688	5.00	5.81	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	85	22817	5.00	3.99	
65 Tetrachloroethene	164	10.888	10.888	0.000	94	20578	5.00	4.58	
69 Ethyl methacrylate	69	10.972	10.972	0.000	86	11056	5.00	6.11	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	92	10620	5.00	4.28	
70 Chlorodibromomethane	129	11.223	11.223	0.000	90	9798	5.00	3.83	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	90	24311	5.00	4.35	
119 n-Butyl acetate	43	11.446	11.446	0.000	97	10888	5.00	5.81	
72 Ethylene Dibromide	107	11.474	11.474	0.000	95	9845	5.00	4.17	
74 2-Hexanone	43	11.572	11.572	0.000	49	4071	5.00	5.83	
S 73 1,3-Dichloropropene, Total	75				0			8.06	
75 1-Chlorohexane	91	11.838	11.838	0.000	97	32381	5.00	4.02	
78 Ethylbenzene	91	11.907	11.907	0.000	76	124186	5.00	4.57	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.907	11.907	0.000	91	583763	50.0	50.0	
77 Chlorobenzene	112	11.921	11.921	0.000	90	58520	5.00	4.70	
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	93	15018	5.00	4.30	
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	100	41292	5.00	4.50	
82 o-Xylene	106	12.438	12.438	0.000	97	34554	5.00	4.33	
83 Styrene	104	12.480	12.480	0.000	92	45168	5.00	5.44	
84 Bromoform	173	12.550	12.550	0.000	92	5418	5.00	5.73	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	104294	5.00	4.40	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.011	0.000	86	29735	5.00	4.98	
88 N-Propylbenzene	91	13.094	13.094	0.000	99	131559	5.00	4.38	
87 Bromobenzene	156	13.136	13.136	0.000	95	20671	5.00	4.58	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	95	12850	5.00	4.25	a
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	92	81087	5.00	4.27	
90 2-Chlorotoluene	91	13.276	13.276	0.000	93	90852	5.00	4.64	
92 1,2,3-Trichloropropane	110	13.318	13.318	0.000	83	3499	5.00	4.04	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	73	3078	5.00	3.97	
94 Cyclohexanone	55	13.402	13.402	0.000	74	2144	50.0	59.8	
95 4-Chlorotoluene	91	13.430	13.430	0.000	98	78719	5.00	4.53	
96 tert-Butylbenzene	119	13.583	13.583	0.000	93	71005	5.00	4.42	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	98	83286	5.00	4.35	
98 sec-Butylbenzene	105	13.751	13.751	0.000	96	119853	5.00	4.47	
99 4-Isopropyltoluene	119	13.863	13.863	0.000	96	87397	5.00	4.27	
100 1,3-Dichlorobenzene	146	14.002	14.016	-0.014	94	40721	5.00	4.75	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	271423	50.0	50.0	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	80	80586	5.00	4.49	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	91	41338	5.00	4.86	
103 n-Butylbenzene	134	14.282	14.282	0.000	97	21195	5.00	4.37	
121 Benzyl chloride	126	14.310	14.324	-0.014	1	2798	5.00	5.55	
104 1,2-Dichlorobenzene	146	14.519	14.519	0.000	95	33302	5.00	4.79	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	58	3451	5.00	5.63	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	1	1232	5.00	5.54	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	96	36642	5.00	4.70	
108 Hexachlorobutadiene	225	15.902	15.902	0.000	95	25365	5.00	4.82	
109 1,2,4-Trichlorobenzene	180	15.972	15.972	0.000	93	25980	5.00	4.52	
110 Naphthalene	128	16.321	16.321	0.000	98	24333	5.00	3.92	
S 112 Xylenes, Total	106				0			8.83	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	93	20645	5.00	4.47	
S 113 Trihalomethanes, Total	1				0			18.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

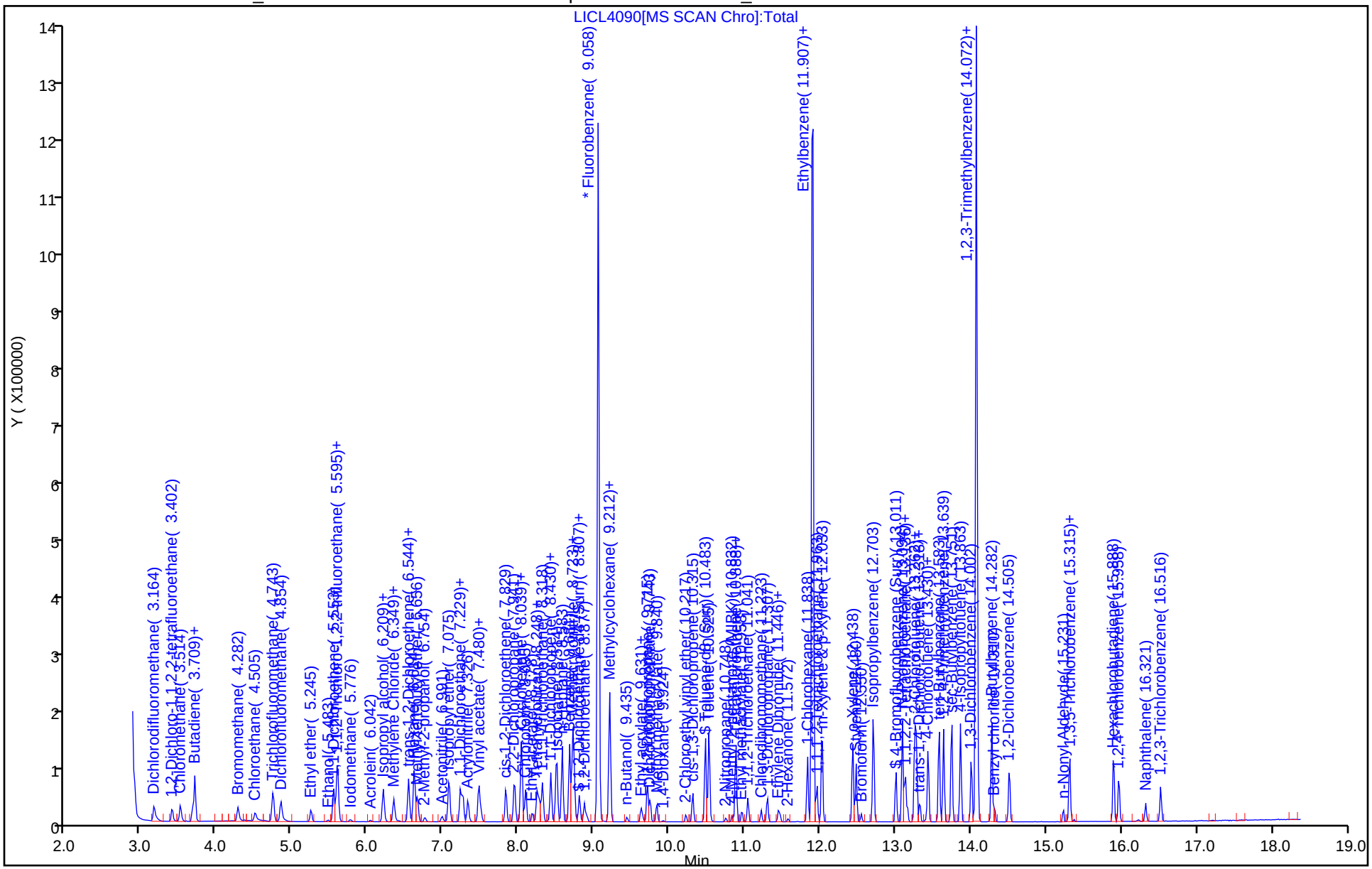
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8260 Surr 25_00096	Amount Added: 1.00	Units: uL	
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 19-Mar-2019 16:06:18 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Injection Date:	18-Mar-2019 17:13:30	Instrument ID:	VMSL	Operator ID:	DEK
Lims ID:	IC			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

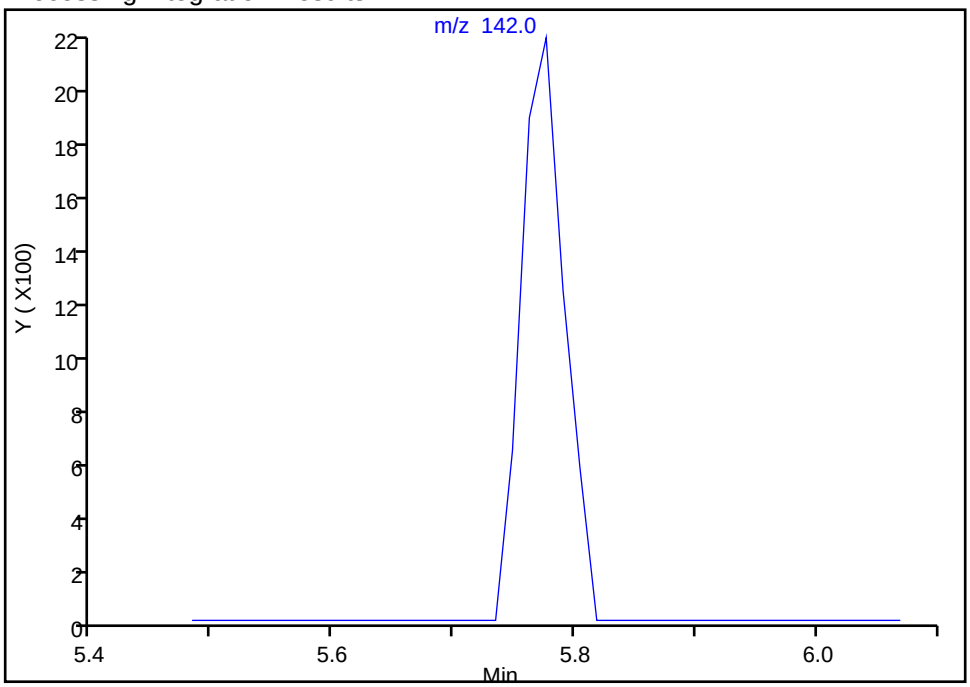
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Injection Date: 18-Mar-2019 17:13:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

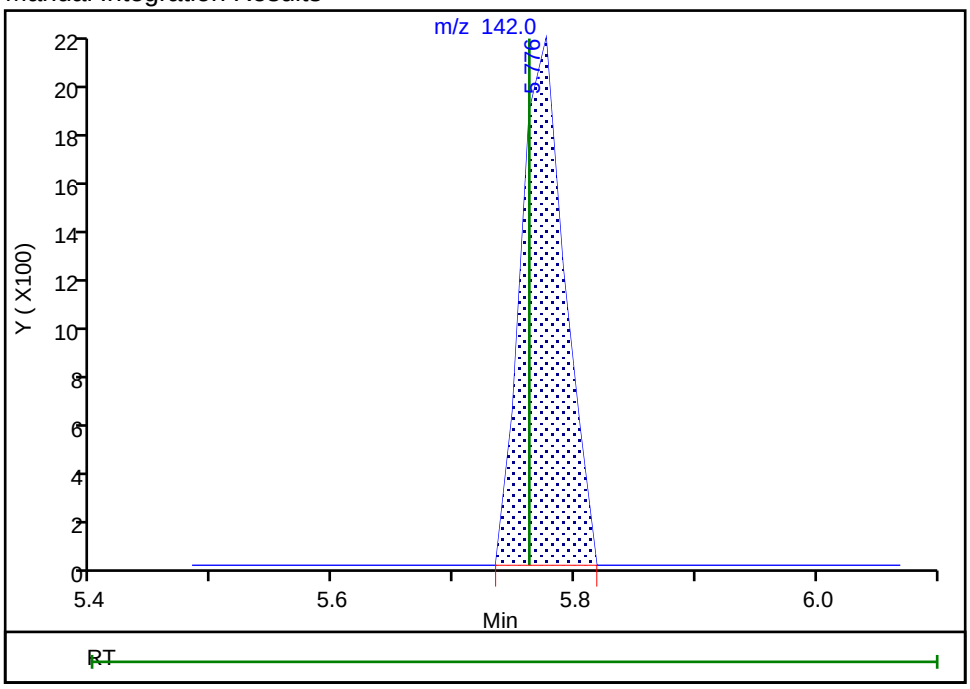
Not Detected
Expected RT: 5.76

Processing Integration Results



Manual Integration Results

RT: 5.78
Area: 5430
Amount: 9.786975
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 17:36:24
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

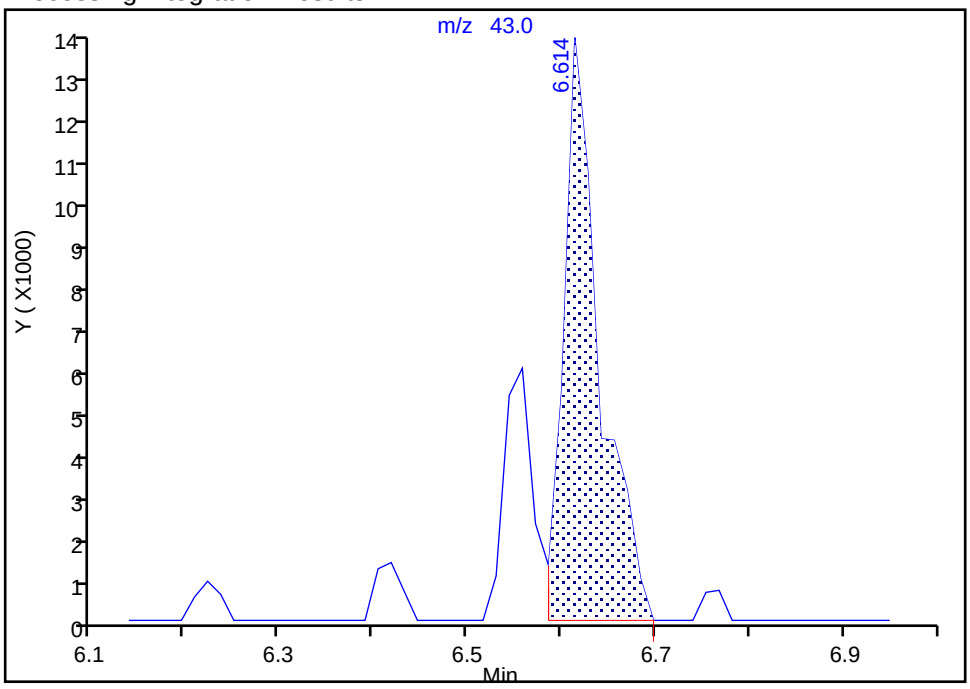
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Injection Date: 18-Mar-2019 17:13:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

18 Acetone, CAS: 67-64-1

Signal: 1

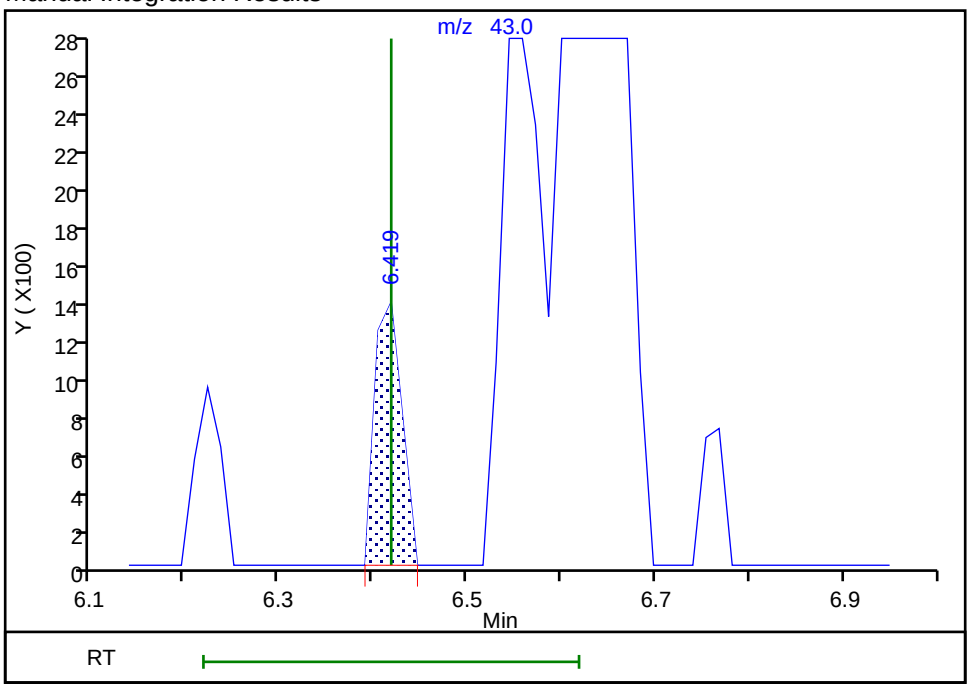
Processing Integration Results

RT: 6.61
Area: 36450
Amount: 21.003631
Amount Units: ug/l



Manual Integration Results

RT: 6.42
Area: 2722
Amount: 4.453916
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 17:36:31
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

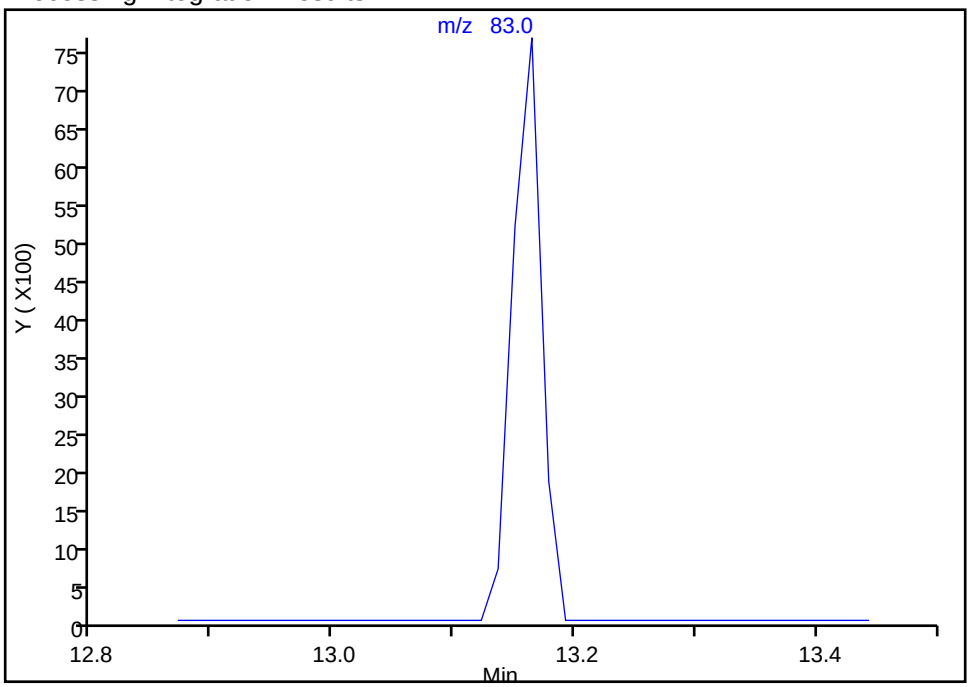
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Injection Date: 18-Mar-2019 17:13:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: DEK ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

89 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

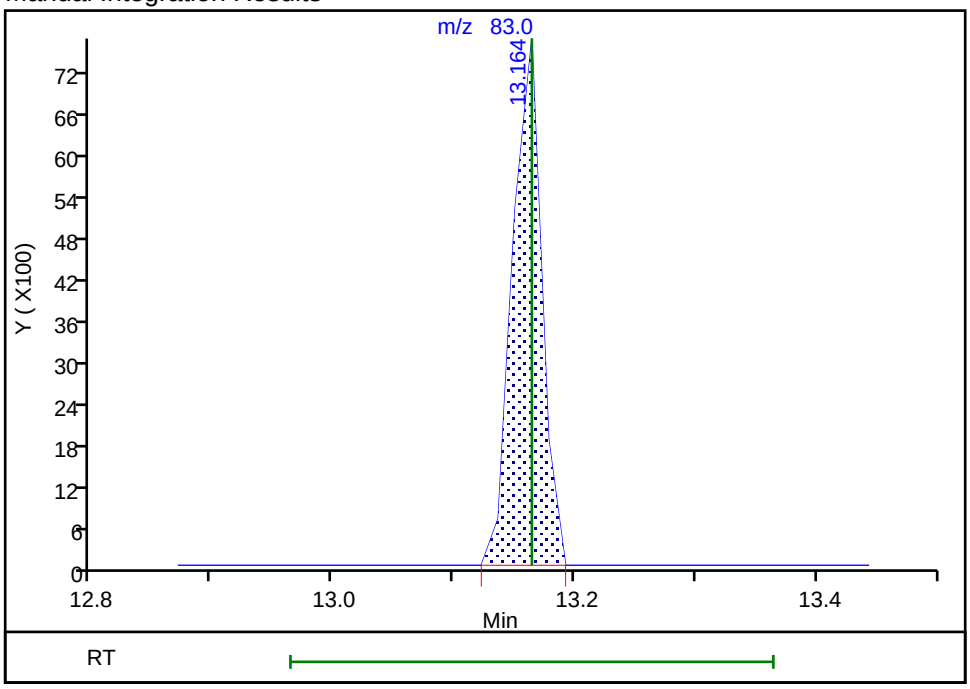
Not Detected
Expected RT: 13.16

Processing Integration Results



Manual Integration Results

RT: 13.16
Area: 12850
Amount: 4.252134
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 17:36:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Lab Sample ID: ICV 160-419780/17 Calibration Date: 03/18/2019 18:07

Instrument ID: VMSL Calib Start Date: 03/18/2019 10:33

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/18/2019 17:13

Lab File ID: LICV4091.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.4193	0.4068	0.1000	48.5	50.0	-3.0	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.0990	0.1414	0.0100	71.4	50.0	42.9*	20.0
Chloromethane	Ave	0.3435	0.3604	0.1000	52.5	50.0	4.9	20.0
Vinyl chloride	Ave	0.3676	0.3887	0.1000	52.9	50.0	5.7	20.0
Butadiene	Ave	0.3261	0.3313	0.0100	50.8	50.0	1.6	20.0
Bromomethane	Ave	0.1989	0.2021	0.1000	50.8	50.0	1.6	20.0
Chloroethane	Ave	0.2117	0.2339	0.1000	55.3	50.0	10.5	20.0
Trichlorofluoromethane	Ave	0.5093	0.5306	0.1000	52.1	50.0	4.2	20.0
Dichlorofluoromethane	Ave	0.5757	0.5713	0.0100	49.6	50.0	-0.8	20.0
Ethyl ether	Ave	0.1202	0.1312	0.0100	54.6	50.0	9.2	20.0
Ethanol	Ave	0.0012	0.0013*	0.0100	2050	2000	2.3	20.0
1,1-Dichloroethene	Ave	0.2527	0.2636	0.1000	52.1	50.0	4.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2022	0.2071	0.1000	51.2	50.0	2.4	20.0
Carbon disulfide	Ave	0.9802	1.007	0.1000	51.4	50.0	2.7	20.0
Iodomethane	Qua		0.1346	0.0100	49.1	50.0	-1.9	20.0
Acrolein	Ave	0.0065	0.0113	0.0010	437	250	74.9*	20.0
3-Chloro-1-propene	Ave	0.3099	0.3418	0.0100	55.1	50.0	10.3	20.0
Isopropyl alcohol	Ave	0.0075	0.0073*	0.0100	487	500	-2.5	20.0
Methylene Chloride	Ave	0.2541	0.2533	0.1000	49.8	50.0	-0.3	20.0
Acetone	Ave	0.0330	0.0332*	0.1000	50.4	50.0	0.7	20.0
Methyl acetate	Ave	0.0081	0.0084*	0.1000	261	250	4.3	20.0
trans-1,2-Dichloroethene	Ave	0.2817	0.2926	0.1000	51.9	50.0	3.9	20.0
Hexane	Ave	0.1027	0.1087	0.0100	52.9	50.0	5.9	20.0
Methyl tert-butyl ether	Ave	0.5714	0.5969	0.1000	52.2	50.0	4.5	20.0
2-Methyl-2-propanol	Ave	0.0125	0.0132	0.0100	527	500	5.3	20.0
Acetonitrile	Ave	0.0129	0.0126	0.0010	492	500	-1.7	20.0
Isopropyl ether	Ave	0.6892	0.7141	0.0100	51.8	50.0	3.6	20.0
2-Chloro-1,3-butadiene	Ave	0.4247	0.4675	0.0100	55.0	50.0	10.1	20.0
1,1-Dichloroethane	Ave	0.5316	0.5370	0.2000	50.5	50.0	1.0	20.0
Acrylonitrile	Ave	0.0388	0.0395	0.0100	508	500	1.6	20.0
Tert-butyl ethyl ether	Ave	0.6597	0.6822	0.0100	51.7	50.0	3.4	20.0
Vinyl acetate	Ave	0.3315	0.3624	0.0100	54.6	50.0	9.3	20.0
cis-1,2-Dichloroethene	Ave	0.2803	0.2842	0.1000	50.7	50.0	1.4	20.0
2,2-Dichloropropane	Ave	0.5153	0.5408	0.0100	52.5	50.0	4.9	20.0
Bromochloromethane	Ave	0.0815	0.0824	0.0100	50.6	50.0	1.2	20.0
Cyclohexane	Ave	0.5344	0.5592	0.1000	52.3	50.0	4.6	20.0
Chloroform	Ave	0.5017	0.5146	0.2000	51.3	50.0	2.6	20.0
Ethyl acetate	Lin1		0.0160	0.0100	97.4	100	-2.6	20.0
Carbon tetrachloride	Ave	0.3676	0.3793	0.1000	51.6	50.0	3.2	20.0
Tetrahydrofuran	Lin1		0.0156	0.0010	97.1	100	-2.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Lab Sample ID: ICV 160-419780/17 Calibration Date: 03/18/2019 18:07

Instrument ID: VMSL Calib Start Date: 03/18/2019 10:33

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/18/2019 17:13

Lab File ID: LICV4091.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4848	0.5057	0.1000	52.2	50.0	4.3	20.0
2-Butanone (MEK)	Ave	0.0494	0.0521*	0.1000	52.8	50.0	5.5	20.0
1,1-Dichloropropene	Ave	0.4658	0.4783	0.0100	51.3	50.0	2.7	20.0
Isooctane	Ave	1.254	1.311	0.0100	52.3	50.0	4.5	20.0
n-Heptane	Ave	0.5297	0.5487	0.0100	51.8	50.0	3.6	20.0
Benzene	Ave	1.299	1.261	0.5000	48.5	50.0	-2.9	20.0
Propionitrile	Ave	0.0153	0.0156	0.0010	510	500	2.1	20.0
Methacrylonitrile	Ave	0.0803	0.0824	0.0100	513	500	2.6	20.0
Tert-amyl methyl ether	Ave	0.6383	0.6684	0.0100	52.4	50.0	4.7	20.0
Isobutyl alcohol	Lin1		0.0032	0.0010	1140	1250	-8.6	20.0
1,2-Dichloroethane	Ave	0.2977	0.2938	0.1000	49.3	50.0	-1.3	20.0
Methylcyclohexane	Ave	0.4663	0.4651	0.1000	49.9	50.0	-0.2	20.0
Trichloroethene	Ave	0.3139	0.3093	0.2000	49.3	50.0	-1.5	20.0
n-Butanol	Lin1		0.0031*	0.0100	1110	1250	-11.2	20.0
Dibromomethane	Ave	0.1068	0.1061	0.0100	49.6	50.0	-0.7	20.0
Ethyl acrylate	Lin1		0.1539	0.0100	46.5	50.0	-7.0	20.0
1,2-Dichloropropane	Ave	0.2572	0.2701	0.1000	52.5	50.0	5.0	20.0
Bromodichloromethane	Ave	0.3259	0.3409	0.2000	52.3	50.0	4.6	20.0
Methyl methacrylate	Lin1		0.1106	0.0100	95.1	100	-4.9	20.0
1,4-Dioxane	Ave	0.0013	0.0013	0.0010	1010	1000	1.4	20.0
2-Chloroethyl vinyl ether	Lin1		0.0900	0.0100	46.2	50.0	-7.6	20.0
cis-1,3-Dichloropropene	Ave	0.3746	0.4076	0.2000	54.4	50.0	8.8	20.0
Toluene	Ave	1.165	1.175	0.4000	50.4	50.0	0.8	20.0
2-Nitropropane	Qua		0.0522	0.0100	101	100	0.7	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1718	0.1000	46.4	50.0	-7.2	20.0
Tetrachloroethene	Ave	0.3845	0.3679	0.2000	47.8	50.0	-4.3	20.0
trans-1,3-Dichloropropene	Ave	0.4900	0.5065	0.1000	51.7	50.0	3.4	20.0
Ethyl methacrylate	Lin1		0.3174	0.0100	43.9	50.0	-12.3	20.0
1,1,2-Trichloroethane	Ave	0.2123	0.2145	0.1000	50.5	50.0	1.0	20.0
Dibromochloromethane	Ave	0.2191	0.2286	0.1000	52.2	50.0	4.3	20.0
1,3-Dichloropropane	Ave	0.4782	0.4723	0.0100	49.4	50.0	-1.2	20.0
n-Butyl acetate	Lin1		0.2899	0.0100	45.1	50.0	-9.7	20.0
1,2-Dibromoethane	Ave	0.2023	0.2049	0.1000	50.6	50.0	1.3	20.0
2-Hexanone	Lin1		0.1196	0.1000	47.4	50.0	-5.3	20.0
1-Chlorohexane	Ave	0.6904	0.7204	0.0100	52.2	50.0	4.3	20.0
Ethylbenzene	Ave	2.329	2.280	0.1000	48.9	50.0	-2.1	20.0
Chlorobenzene	Ave	1.066	1.045	0.5000	49.0	50.0	-1.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2991	0.3002	0.0100	50.2	50.0	0.4	20.0
m,p-Xylenes	Ave	0.7856	0.8087	0.1000	51.5	50.0	2.9	20.0
o-Xylene	Ave	0.6835	0.7304	0.3000	53.4	50.0	6.9	20.0
Styrene	Lin1		1.085	0.3000	44.7	50.0	-10.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Lab Sample ID: ICV 160-419780/17 Calibration Date: 03/18/2019 18:07

Instrument ID: VMSL Calib Start Date: 03/18/2019 10:33

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/18/2019 17:13

Lab File ID: LICV4091.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromoform	Lin1		0.3009	0.1000	45.6	50.0	-8.8	20.0
Isopropylbenzene	Ave	4.364	4.424	0.1000	50.7	50.0	1.4	20.0
N-Propylbenzene	Ave	5.527	5.614	0.0100	50.8	50.0	1.6	20.0
Bromobenzene	Ave	0.8318	0.8131	0.0100	48.9	50.0	-2.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5567	0.5489	0.3000	49.3	50.0	-1.4	20.0
1,3,5-Trimethylbenzene	Ave	3.495	3.576	0.0100	51.2	50.0	2.3	20.0
2-Chlorotoluene	Ave	3.608	3.595	0.0100	49.8	50.0	-0.4	20.0
1,2,3-Trichloropropane	Ave	0.1597	0.1630	0.0100	51.0	50.0	2.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1426	0.1548	0.0100	54.3	50.0	8.5	20.0
Cyclohexanone	Lin1		0.0109	0.0010	429	500	-14.1	20.0
4-Chlorotoluene	Ave	3.205	3.201	0.0100	49.9	50.0	-0.1	20.0
tert-Butylbenzene	Ave	2.959	2.971	0.0100	50.2	50.0	0.4	20.0
1,2,4-Trimethylbenzene	Ave	3.529	3.530	0.0100	50.0	50.0	0.0	20.0
sec-Butylbenzene	Ave	4.938	4.960	0.0100	50.2	50.0	0.4	20.0
p-Isopropyltoluene	Ave	3.769	3.863	0.0100	51.2	50.0	2.5	20.0
1,3-Dichlorobenzene	Ave	1.579	1.526	0.6000	48.3	50.0	-3.4	20.0
1,2,3-Trimethylbenzene	Ave	3.308	3.386	0.0100	51.2	50.0	2.4	20.0
1,4-Dichlorobenzene	Ave	1.568	1.520	0.5000	48.5	50.0	-3.0	20.0
n-Butylbenzene	Ave	0.8930	0.8987	0.0100	50.3	50.0	0.6	20.0
Benzyl chloride	Lin1		0.1888	0.0100	47.6	50.0	-4.8	20.0
1,2-Dichlorobenzene	Lin1		1.278	0.4000	48.2	50.0	-3.6	20.0
n-Nonyl Aldehyde	Qua		0.2573	0.0100	44.8	50.0	-10.4	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0766	0.0500	43.6	50.0	-12.8	20.0
1,3,5-Trichlorobenzene	Ave	1.437	1.416	0.0100	49.3	50.0	-1.4	20.0
Hexachlorobutadiene	Ave	0.9701	0.9477	0.0100	48.8	50.0	-2.3	20.0
1,2,4-Trichlorobenzene	Ave	1.059	1.040	0.2000	49.1	50.0	-1.8	20.0
Naphthalene	Ave	1.143	1.138	0.0100	49.8	50.0	-0.5	20.0
1,2,3-Trichlorobenzene	Ave	0.8504	0.8324	0.0100	48.9	50.0	-2.1	20.0
Dibromofluoromethane (Surr)	Ave	0.1918	0.2060	0.0100	53.7	50.0	7.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2497	0.2647	0.0100	53.0	50.0	6.0	20.0
Toluene-d8 (Surr)	Ave	1.552	1.615	0.0100	52.0	50.0	4.1	20.0
4-Bromofluorobenzene (Surr)	Ave	1.101	1.161	0.0100	52.8	50.0	5.5	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICV4091.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 18-Mar-2019 18:07:30 ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: ICV
Operator ID: DEK Instrument ID: VMSL
Sublist:

Method: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 19-Mar-2019 16:06:17 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0338

First Level Reviewer: aguk Date: 18-Mar-2019 18:33:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	99	405715	50.0	48.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.402	3.402	0.000	95	141052	50.0	71.4	
3 Chloromethane	50	3.513	3.514	-0.001	99	359421	50.0	52.5	
4 Vinyl chloride	62	3.681	3.681	0.000	99	387648	50.0	52.9	
122 Butadiene	39	3.709	3.709	0.000	93	330445	50.0	50.8	
5 Bromomethane	94	4.282	4.282	0.000	92	201520	50.0	50.8	
6 Chloroethane	64	4.491	4.491	0.000	98	233305	50.0	55.3	
7 Trichlorofluoromethane	101	4.729	4.743	-0.014	98	529146	50.0	52.1	
123 Dichlorofluoromethane	67	4.840	4.854	-0.014	97	569778	50.0	49.6	
8 Ethyl ether	74	5.245	5.245	0.000	89	130850	50.0	54.6	
11 Ethanol	45	5.469	5.483	-0.014	100	49672	2000.0	2046.7	
9 1,1-Dichloroethene	96	5.553	5.553	0.000	95	262848	50.0	52.1	
10 Carbon disulfide	76	5.594	5.595	-0.001	99	1004392	50.0	51.4	
12 1,1,2-Trichloro-1,2,2-trif	151	5.594	5.609	-0.015	51	206555	50.0	51.2	
13 Iodomethane	142	5.762	5.762	0.000	100	134186	50.0	49.1	
14 Acrolein	56	6.027	6.042	-0.015	99	56492	250.0	437.1	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	90	340821	50.0	55.1	
16 Isopropyl alcohol	45	6.223	6.223	0.000	97	72605	500.0	487.4	
17 Methylene Chloride	84	6.349	6.349	0.000	89	252583	50.0	49.8	
18 Acetone	43	6.404	6.419	-0.015	99	33117	50.0	50.4	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	97	291786	50.0	51.9	
20 Methyl acetate	74	6.544	6.544	0.000	96	42031	250.0	260.7	
21 Hexane	86	6.614	6.614	0.000	92	108371	50.0	52.9	
22 Methyl tert-butyl ether	73	6.656	6.656	0.000	85	595293	50.0	52.2	
23 2-Methyl-2-propanol	59	6.754	6.768	-0.014	98	131128	500.0	526.5	
24 Acetonitrile	41	6.977	6.991	-0.014	99	126004	500.0	491.6	
25 Isopropyl ether	45	7.075	7.075	0.000	92	712191	50.0	51.8	
27 2-Chloro-1,3-butadiene	53	7.228	7.229	-0.001	92	466261	50.0	55.0	
28 1,1-Dichloroethane	63	7.256	7.271	-0.015	95	535548	50.0	50.5	
29 Acrylonitrile	53	7.326	7.326	0.000	99	393835	500.0	508.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.466	7.480	-0.014	98	680329	50.0	51.7	
31 Vinyl acetate	43	7.508	7.508	0.000	97	361392	50.0	54.6	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	81	283377	50.0	50.7	
33 2,2-Dichloropropane	77	7.941	7.955	-0.014	88	539300	50.0	52.5	
34 Cyclohexane	84	8.039	8.039	0.000	87	557635	50.0	52.3	
35 Chlorobromomethane	128	8.039	8.039	0.000	53	82221	50.0	50.6	
36 Chloroform	83	8.094	8.095	-0.001	94	513157	50.0	51.3	
39 Ethyl acetate	45	8.178	8.178	0.000	99	31805	100.0	97.4	
37 Carbon tetrachloride	117	8.248	8.248	0.000	96	378251	50.0	51.6	
38 Tetrahydrofuran	71	8.262	8.262	0.000	84	31104	100.0	97.1	
$ 41 Dibromofluoromethane (Surr	113	8.276	8.290	-0.014	93	205390	50.0	53.7	
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	98	504317	50.0	52.2	
43 2-Butanone (MEK)	43	8.388	8.402	-0.014	98	51982	50.0	52.8	a
42 1,1-Dichloropropene	75	8.430	8.430	0.000	96	477032	50.0	51.3	
125 Isooctane	57	8.499	8.514	-0.015	97	1307174	50.0	52.3	
117 n-Heptane	43	8.583	8.583	0.000	89	547236	50.0	51.8	
44 Benzene	78	8.681	8.681	0.000	95	1257559	50.0	48.5	
45 Propionitrile	54	8.709	8.709	0.000	89	155950	500.0	510.4	
46 Methacrylonitrile	41	8.723	8.723	0.000	91	821367	500.0	512.8	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	97	666575	50.0	52.4	
50 Isobutyl alcohol	42	8.807	8.807	0.000	90	78557	1250.0	1143.0	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	99	263973	50.0	53.0	
49 1,2-Dichloroethane	62	8.877	8.877	-0.001	99	292991	50.0	49.3	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	997293	50.0	50.0	
52 Methylcyclohexane	55	9.212	9.212	0.000	87	463843	50.0	49.9	
53 Trichloroethene	95	9.212	9.212	0.000	61	308453	50.0	49.3	
54 n-Butanol	56	9.435	9.435	0.000	90	78059	1250.0	1110.4	
55 Dibromomethane	93	9.617	9.631	-0.014	96	105787	50.0	49.6	
124 Ethyl acrylate	55	9.645	9.645	0.000	99	153433	50.0	46.5	
56 1,2-Dichloropropane	63	9.714	9.715	-0.001	93	269364	50.0	52.5	
57 Dichlorobromomethane	83	9.742	9.743	-0.001	99	339989	50.0	52.3	
58 Methyl methacrylate	69	9.826	9.840	-0.014	88	220646	100.0	95.1	
59 1,4-Dioxane	88	9.924	9.924	0.000	93	26398	1000.0	1014.1	
60 2-Chloroethyl vinyl ether	63	10.217	10.217	0.000	92	89760	50.0	46.2	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	94	406521	50.0	54.4	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1057611	50.0	52.0	
63 Toluene	92	10.525	10.525	0.000	98	769090	50.0	50.4	
64 2-Nitropropane	43	10.748	10.748	0.000	99	68292	100.0	100.7	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	96	112502	50.0	46.4	
65 Tetrachloroethene	164	10.888	10.888	0.000	94	240889	50.0	47.8	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	94	331614	50.0	51.7	
69 Ethyl methacrylate	69	10.957	10.972	-0.015	87	207851	50.0	43.9	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	93	140421	50.0	50.5	
70 Chlorodibromomethane	129	11.223	11.223	0.000	91	149679	50.0	52.2	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	90	309215	50.0	49.4	
119 n-Butyl acetate	43	11.446	11.446	0.000	98	189846	50.0	45.1	
72 Ethylene Dibromide	107	11.460	11.474	-0.014	98	134141	50.0	50.6	
74 2-Hexanone	43	11.572	11.572	0.000	96	78336	50.0	47.4	
75 1-Chlorohexane	91	11.837	11.838	-0.001	97	471700	50.0	52.2	
* 76 Chlorobenzene-d5	117	11.893	11.907	-0.014	88	654766	50.0	50.0	
78 Ethylbenzene	91	11.907	11.907	0.000	99	1492740	50.0	48.9	
77 Chlorobenzene	112	11.921	11.921	0.000	96	684197	50.0	49.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	93	196588	50.0	50.2	
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	100	529537	50.0	51.5	
82 o-Xylene	106	12.438	12.438	0.000	97	478252	50.0	53.4	
83 Styrene	104	12.480	12.480	0.000	93	710366	50.0	44.7	
84 Bromoform	173	12.550	12.550	0.000	95	95550	50.0	45.6	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	1405023	50.0	50.7	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.011	-0.001	88	368883	50.0	52.8	
88 N-Propylbenzene	91	13.094	13.094	0.000	99	1782909	50.0	50.8	
87 Bromobenzene	156	13.136	13.136	0.000	94	258239	50.0	48.9	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	95	174314	50.0	49.3	
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	94	1135662	50.0	51.2	
90 2-Chlorotoluene	91	13.276	13.276	0.000	93	1141619	50.0	49.8	
92 1,2,3-Trichloropropane	110	13.318	13.318	0.000	84	51773	50.0	51.0	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	92	49157	50.0	54.3	
94 Cyclohexanone	55	13.402	13.402	0.000	92	34745	500.0	429.3	
95 4-Chlorotoluene	91	13.430	13.430	0.000	98	1016588	50.0	49.9	
96 tert-Butylbenzene	119	13.583	13.583	0.000	91	943594	50.0	50.2	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	98	1121249	50.0	50.0	
98 sec-Butylbenzene	105	13.751	13.751	0.000	95	1575148	50.0	50.2	
99 4-Isopropyltoluene	119	13.862	13.863	-0.001	96	1226848	50.0	51.2	
100 1,3-Dichlorobenzene	146	14.002	14.016	-0.014	94	484577	50.0	48.3	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	97	1075214	50.0	51.2	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	70	317594	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	87	482810	50.0	48.5	
103 n-Butylbenzene	134	14.281	14.282	-0.001	97	285409	50.0	50.3	
121 Benzyl chloride	126	14.309	14.324	-0.015	95	59965	50.0	47.6	
104 1,2-Dichlorobenzene	146	14.505	14.519	-0.014	93	405962	50.0	48.2	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	87	81703	50.0	44.8	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	68	24331	50.0	43.6	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	96	449781	50.0	49.3	
108 Hexachlorobutadiene	225	15.902	15.902	0.000	95	300995	50.0	48.8	
109 1,2,4-Trichlorobenzene	180	15.971	15.972	-0.001	93	330363	50.0	49.1	
110 Naphthalene	128	16.321	16.321	-0.001	98	361276	50.0	49.8	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	94	264356	50.0	48.9	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

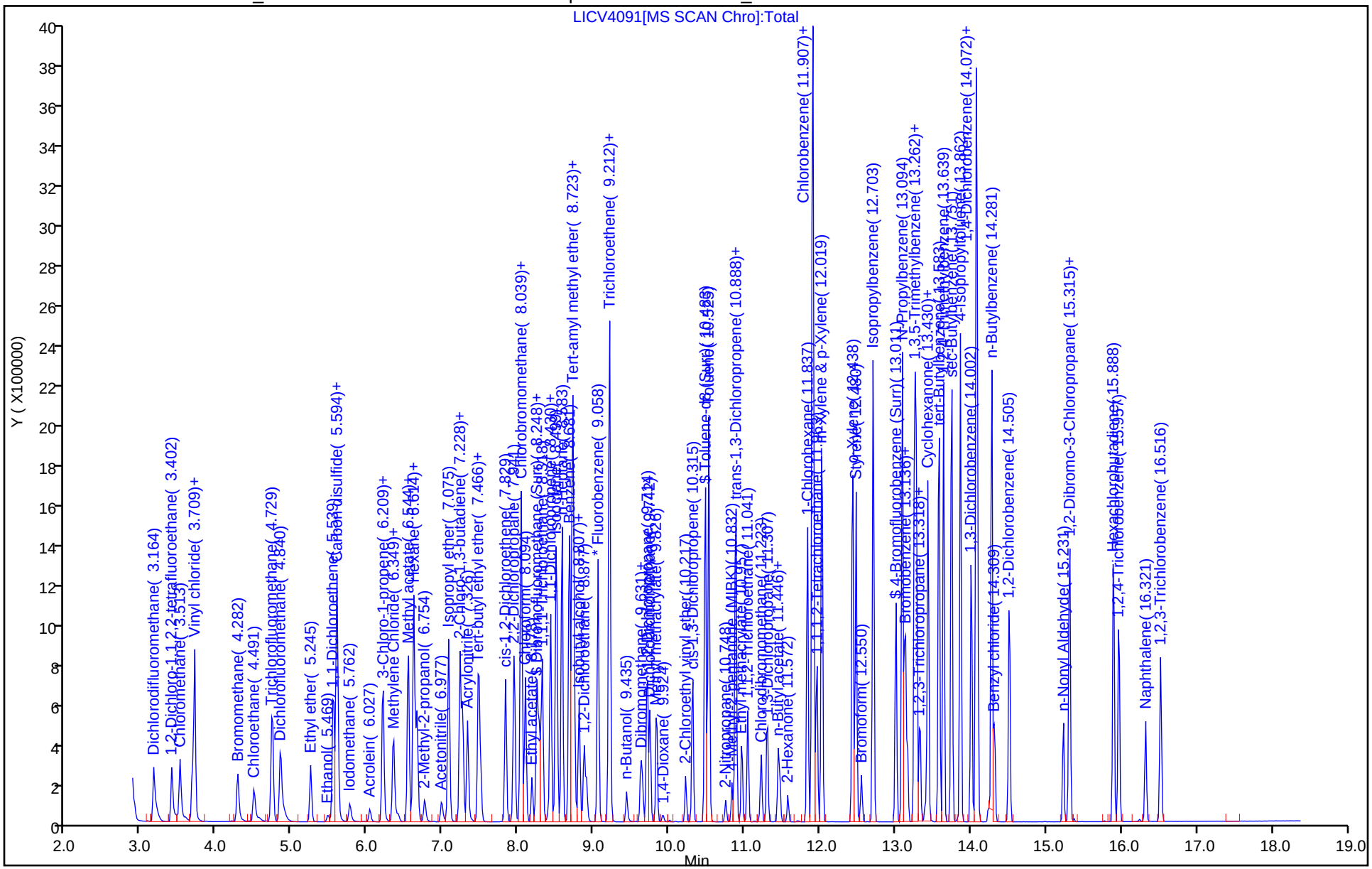
8260 Surr 25_00096	Amount Added: 10.00	Units: uL	
8260NewICVMix_00306	Amount Added: 10.00	Units: uL	
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 19-Mar-2019 16:06:21 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICV4091.D

Injection Date:	18-Mar-2019 18:07:30	Instrument ID:	VMSL	Operator ID:	DEK
Lims ID:	ICV			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

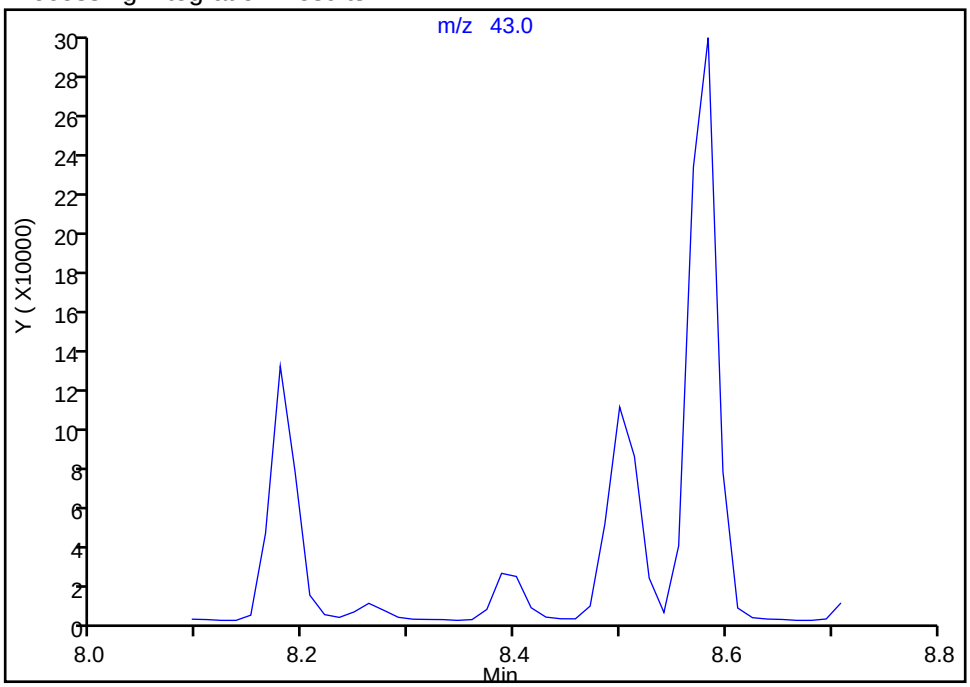
Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICV4091.D
Injection Date: 18-Mar-2019 18:07:30 Instrument ID: VMSL
Lims ID: ICV
Client ID:
Operator ID: DEK ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

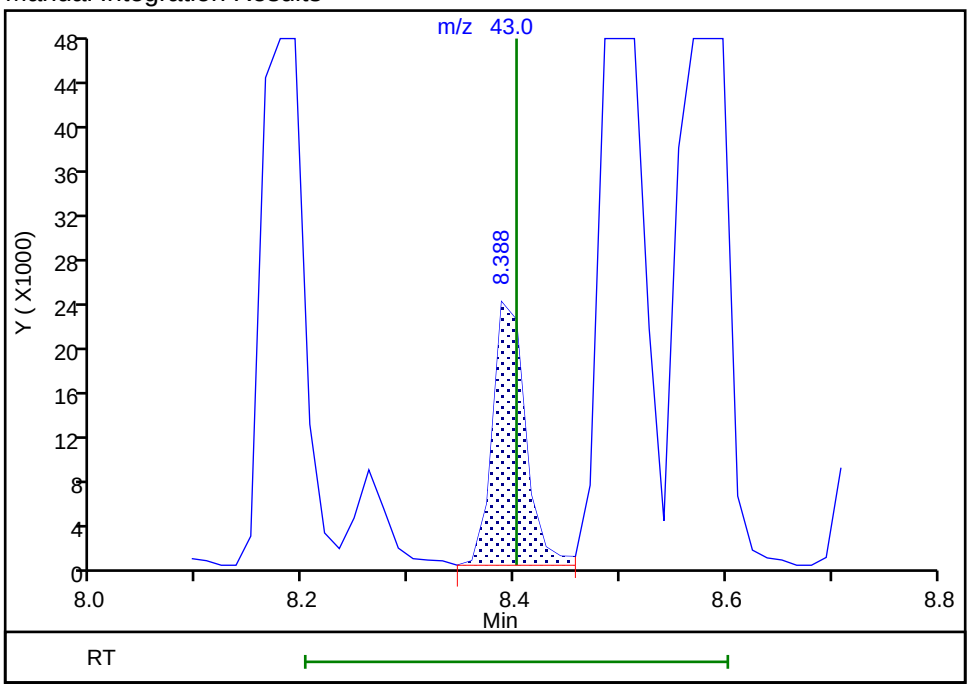
Not Detected
Expected RT: 8.40

Processing Integration Results



Manual Integration Results

RT: 8.39
Area: 51982
Amount: 52.758795
Amount Units: ug/l



Reviewer: aguk, 18-Mar-2019 18:33:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Lab Sample ID: CCV 160-420035/3 Calibration Date: 03/19/2019 11:17

Instrument ID: VMSL Calib Start Date: 03/18/2019 10:33

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/18/2019 17:13

Lab File ID: LCCV4113.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.4193	0.4195	0.1000	50.0	50.0	0.0	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.0990	0.1054	0.0100	53.2	50.0	6.4	20.0
Chloromethane	Ave	0.3435	0.3269	0.1000	47.6	50.0	-4.8	20.0
Vinyl chloride	Ave	0.3676	0.3651	0.1000	49.7	50.0	-0.7	20.0
Butadiene	Ave	0.3261	0.3322	0.0100	50.9	50.0	1.9	20.0
Bromomethane	Ave	0.1989	0.1750	0.1000	44.0	50.0	-12.0	20.0
Chloroethane	Ave	0.2117	0.2122	0.1000	50.1	50.0	0.2	20.0
Trichlorofluoromethane	Ave	0.5093	0.4944	0.1000	48.5	50.0	-2.9	20.0
Dichlorofluoromethane	Ave	0.5757	0.5534	0.0100	48.1	50.0	-3.9	20.0
Ethyl ether	Ave	0.1202	0.1147	0.0100	47.7	50.0	-4.5	20.0
Ethanol	Ave	0.0012	0.0012*	0.0100	1920	2000	-4.1	20.0
1,1-Dichloroethene	Ave	0.2527	0.2492	0.1000	49.3	50.0	-1.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2022	0.1953	0.1000	48.3	50.0	-3.4	20.0
Carbon disulfide	Ave	0.9802	0.9687	0.1000	49.4	50.0	-1.2	20.0
Iodomethane	Qua		0.1048	0.0100	40.2	50.0	-19.6	20.0
Acrolein	Ave	0.0065	0.0068	0.0010	262	250	4.7	20.0
3-Chloro-1-propene	Ave	0.3099	0.3072	0.0100	49.6	50.0	-0.9	20.0
Isopropyl alcohol	Ave	0.0075	0.0064*	0.0100	427	500	-14.6	20.0
Methylene Chloride	Ave	0.2541	0.2401	0.1000	47.2	50.0	-5.5	20.0
Acetone	Ave	0.0330	0.0308*	0.1000	46.7	50.0	-6.6	20.0
Methyl acetate	Ave	0.0081	0.0078*	0.1000	240	250	-4.1	20.0
trans-1,2-Dichloroethene	Ave	0.2817	0.2720	0.1000	48.3	50.0	-3.4	20.0
Hexane	Ave	0.1027	0.1036	0.0100	50.4	50.0	0.9	20.0
Methyl tert-butyl ether	Ave	0.5714	0.5331	0.1000	46.7	50.0	-6.7	20.0
2-Methyl-2-propanol	Ave	0.0125	0.0110	0.0100	439	500	-12.2	20.0
Acetonitrile	Ave	0.0129	0.0121	0.0010	471	500	-5.9	20.0
Isopropyl ether	Ave	0.6892	0.6654	0.0100	48.3	50.0	-3.5	20.0
2-Chloro-1,3-butadiene	Ave	0.4247	0.4302	0.0100	50.6	50.0	1.3	20.0
1,1-Dichloroethane	Ave	0.5316	0.5109	0.2000	48.0	50.0	-3.9	20.0
Acrylonitrile	Ave	0.0388	0.0363	0.0100	467	500	-6.6	20.0
Tert-butyl ethyl ether	Ave	0.6597	0.6266	0.0100	47.5	50.0	-5.0	20.0
Vinyl acetate	Ave	0.3315	0.3303	0.0100	49.8	50.0	-0.4	20.0
cis-1,2-Dichloroethene	Ave	0.2803	0.2725	0.1000	48.6	50.0	-2.8	20.0
2,2-Dichloropropane	Ave	0.5153	0.5038	0.0100	48.9	50.0	-2.2	20.0
Bromochloromethane	Ave	0.0815	0.0788	0.0100	48.4	50.0	-3.3	20.0
Cyclohexane	Ave	0.5344	0.5345	0.1000	50.0	50.0	0.0	20.0
Chloroform	Ave	0.5017	0.4831	0.2000	48.1	50.0	-3.7	20.0
Ethyl acetate	Lin1		0.0145	0.0100	88.8	100	-11.2	20.0
Carbon tetrachloride	Ave	0.3676	0.3524	0.1000	47.9	50.0	-4.1	20.0
Tetrahydrofuran	Lin1		0.0142	0.0010	88.5	100	-11.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Lab Sample ID: CCV 160-420035/3 Calibration Date: 03/19/2019 11:17

Instrument ID: VMSL Calib Start Date: 03/18/2019 10:33

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/18/2019 17:13

Lab File ID: LCCV4113.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4848	0.4698	0.1000	48.5	50.0	-3.1	20.0
2-Butanone (MEK)	Ave	0.0494	0.0452*	0.1000	45.7	50.0	-8.5	20.0
1,1-Dichloropropene	Ave	0.4658	0.4587	0.0100	49.2	50.0	-1.5	20.0
Isooctane	Ave	1.254	1.244	0.0100	49.6	50.0	-0.8	20.0
n-Heptane	Ave	0.5297	0.5287	0.0100	49.9	50.0	-0.2	20.0
Benzene	Ave	1.299	1.213	0.5000	46.7	50.0	-6.6	20.0
Propionitrile	Ave	0.0153	0.0144	0.0010	468	500	-6.3	20.0
Methacrylonitrile	Ave	0.0803	0.0758	0.0100	472	500	-5.6	20.0
Tert-amyl methyl ether	Ave	0.6383	0.6012	0.0100	47.1	50.0	-5.8	20.0
Isobutyl alcohol	Lin1		0.0027	0.0010	984	1250	-21.3*	20.0
1,2-Dichloroethane	Ave	0.2977	0.2728	0.1000	45.8	50.0	-8.4	20.0
Methylcyclohexane	Ave	0.4663	0.4597	0.1000	49.3	50.0	-1.4	20.0
Trichloroethene	Ave	0.3139	0.2929	0.2000	46.7	50.0	-6.7	20.0
n-Butanol	Lin1		0.0027*	0.0100	970	1250	-22.4*	20.0
Dibromomethane	Ave	0.1068	0.1009	0.0100	47.2	50.0	-5.5	20.0
Ethyl acrylate	Lin1		0.1375	0.0100	41.9	50.0	-16.3	20.0
1,2-Dichloropropane	Ave	0.2572	0.2462	0.1000	47.9	50.0	-4.3	20.0
Bromodichloromethane	Ave	0.3259	0.3086	0.2000	47.3	50.0	-5.3	20.0
Methyl methacrylate	Lin1		0.0993	0.0100	85.9	100	-14.1	20.0
1,4-Dioxane	Ave	0.0013	0.0013	0.0010	965	1000	-3.5	20.0
2-Chloroethyl vinyl ether	Lin1		0.0843	0.0100	43.4	50.0	-13.2	20.0
cis-1,3-Dichloropropene	Ave	0.3746	0.3668	0.2000	49.0	50.0	-2.1	20.0
Toluene	Ave	1.165	1.174	0.4000	50.3	50.0	0.7	20.0
2-Nitropropane	Qua		0.0471	0.0100	92.1	100	-7.9	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1537	0.1000	41.8	50.0	-16.4	20.0
Tetrachloroethene	Ave	0.3845	0.3655	0.2000	47.5	50.0	-4.9	20.0
trans-1,3-Dichloropropene	Ave	0.4900	0.4877	0.1000	49.8	50.0	-0.5	20.0
Ethyl methacrylate	Lin1		0.3035	0.0100	42.1	50.0	-15.8	20.0
1,1,2-Trichloroethane	Ave	0.2123	0.2030	0.1000	47.8	50.0	-4.4	20.0
Dibromochloromethane	Ave	0.2191	0.2129	0.1000	48.6	50.0	-2.8	20.0
1,3-Dichloropropane	Ave	0.4782	0.4587	0.0100	48.0	50.0	-4.1	20.0
n-Butyl acetate	Lin1		0.2625	0.0100	41.2	50.0	-17.7	20.0
1,2-Dibromoethane	Ave	0.2023	0.1956	0.1000	48.3	50.0	-3.3	20.0
2-Hexanone	Lin1		0.1018	0.1000	40.8	50.0	-18.4	20.0
1-Chlorohexane	Ave	0.6904	0.7115	0.0100	51.5	50.0	3.0	20.0
Ethylbenzene	Ave	2.329	2.270	0.1000	48.7	50.0	-2.5	20.0
Chlorobenzene	Ave	1.066	1.032	0.5000	48.4	50.0	-3.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2991	0.2923	0.0100	48.9	50.0	-2.3	20.0
m,p-Xylenes	Ave	0.7856	0.8010	0.1000	51.0	50.0	2.0	20.0
o-Xylene	Ave	0.6835	0.7253	0.3000	53.1	50.0	6.1	20.0
Styrene	Lin1		1.120	0.3000	46.1	50.0	-7.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Lab Sample ID: CCV 160-420035/3 Calibration Date: 03/19/2019 11:17

Instrument ID: VMSL Calib Start Date: 03/18/2019 10:33

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/18/2019 17:13

Lab File ID: LCCV4113.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromoform	Lin1		0.2824	0.1000	43.0	50.0	-14.0	20.0
Isopropylbenzene	Ave	4.364	4.458	0.1000	51.1	50.0	2.2	20.0
N-Propylbenzene	Ave	5.527	5.637	0.0100	51.0	50.0	2.0	20.0
Bromobenzene	Ave	0.8318	0.8089	0.0100	48.6	50.0	-2.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5567	0.5378	0.3000	48.3	50.0	-3.4	20.0
1,3,5-Trimethylbenzene	Ave	3.495	3.583	0.0100	51.3	50.0	2.5	20.0
2-Chlorotoluene	Ave	3.608	3.569	0.0100	49.5	50.0	-1.1	20.0
1,2,3-Trichloropropane	Ave	0.1597	0.1507	0.0100	47.2	50.0	-5.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1426	0.1399	0.0100	49.1	50.0	-1.9	20.0
Cyclohexanone	Lin1		0.0110	0.0010	430	500	-14.0	20.0
4-Chlorotoluene	Ave	3.205	3.172	0.0100	49.5	50.0	-1.0	20.0
tert-Butylbenzene	Ave	2.959	2.976	0.0100	50.3	50.0	0.6	20.0
1,2,4-Trimethylbenzene	Ave	3.529	3.556	0.0100	50.4	50.0	0.8	20.0
sec-Butylbenzene	Ave	4.938	4.981	0.0100	50.4	50.0	0.9	20.0
p-Isopropyltoluene	Ave	3.769	3.821	0.0100	50.7	50.0	1.4	20.0
1,3-Dichlorobenzene	Ave	1.579	1.530	0.6000	48.4	50.0	-3.1	20.0
1,2,3-Trimethylbenzene	Ave	3.308	3.283	0.0100	49.6	50.0	-0.7	20.0
1,4-Dichlorobenzene	Ave	1.568	1.509	0.5000	48.1	50.0	-3.8	20.0
n-Butylbenzene	Ave	0.8930	0.9105	0.0100	51.0	50.0	2.0	20.0
Benzyl chloride	Lin1		0.1776	0.0100	45.0	50.0	-10.1	20.0
1,2-Dichlorobenzene	Lin1		1.273	0.4000	48.0	50.0	-4.0	20.0
n-Nonyl Aldehyde	Qua		0.2595	0.0100	45.1	50.0	-9.8	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0725	0.0500	41.5	50.0	-17.1	20.0
1,3,5-Trichlorobenzene	Ave	1.437	1.382	0.0100	48.1	50.0	-3.8	20.0
Hexachlorobutadiene	Ave	0.9701	0.9337	0.0100	48.1	50.0	-3.7	20.0
1,2,4-Trichlorobenzene	Ave	1.059	1.020	0.2000	48.2	50.0	-3.6	20.0
Naphthalene	Ave	1.143	1.107	0.0100	48.4	50.0	-3.1	20.0
1,2,3-Trichlorobenzene	Ave	0.8504	0.7949	0.0100	46.7	50.0	-6.5	20.0
Dibromofluoromethane (Surr)	Ave	0.1918	0.1941	0.0100	50.6	50.0	1.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2497	0.2472	0.0100	49.5	50.0	-1.0	20.0
Toluene-d8 (Surr)	Ave	1.552	1.599	0.0100	51.5	50.0	3.1	20.0
4-Bromofluorobenzene (Surr)	Ave	1.101	1.130	0.0100	51.3	50.0	2.7	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LCCV4113.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 19-Mar-2019 11:17:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: CCV
Operator ID: KA Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:14 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 19-Mar-2019 13:43:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	99	417196	50.0	50.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.402	3.402	0.000	95	104771	50.0	53.2	
3 Chloromethane	50	3.513	3.513	0.000	99	325127	50.0	47.6	
4 Vinyl chloride	62	3.681	3.681	0.000	98	363126	50.0	49.7	
122 Butadiene	39	3.709	3.709	0.000	93	330406	50.0	50.9	
5 Bromomethane	94	4.282	4.282	0.000	92	174070	50.0	44.0	
6 Chloroethane	64	4.491	4.491	0.000	98	210984	50.0	50.1	
7 Trichlorofluoromethane	101	4.742	4.742	0.000	99	491673	50.0	48.5	
123 Dichlorofluoromethane	67	4.840	4.840	0.000	97	550333	50.0	48.1	
8 Ethyl ether	74	5.245	5.245	0.000	89	114114	50.0	47.7	
11 Ethanol	45	5.469	5.469	0.000	100	46416	2000.0	1917.9	
9 1,1-Dichloroethene	96	5.552	5.552	0.000	95	247783	50.0	49.3	
10 Carbon disulfide	76	5.594	5.594	0.000	99	963396	50.0	49.4	
12 1,1,2-Trichloro-1,2,2-trif	151	5.594	5.594	0.000	92	194219	50.0	48.3	
13 Iodomethane	142	5.762	5.762	0.000	99	104182	50.0	40.2	
14 Acrolein	56	6.027	6.027	0.000	98	33743	250.0	261.8	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	91	305546	50.0	49.6	
16 Isopropyl alcohol	45	6.223	6.223	0.000	97	63437	500.0	427.1	
17 Methylene Chloride	84	6.349	6.349	0.000	89	238783	50.0	47.2	
18 Acetone	43	6.404	6.404	0.000	99	30626	50.0	46.7	
20 Methyl acetate	74	6.544	6.544	0.000	97	38561	250.0	239.8	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	97	270524	50.0	48.3	
21 Hexane	86	6.614	6.614	0.000	92	103003	50.0	50.4	
22 Methyl tert-butyl ether	73	6.656	6.656	0.000	87	530161	50.0	46.7	
23 2-Methyl-2-propanol	59	6.754	6.754	0.000	98	109073	500.0	439.2	
24 Acetonitrile	41	6.977	6.977	0.000	99	120291	500.0	470.6	
25 Isopropyl ether	45	7.075	7.075	0.000	92	661729	50.0	48.3	
27 2-Chloro-1,3-butadiene	53	7.228	7.228	0.000	92	427826	50.0	50.6	
28 1,1-Dichloroethane	63	7.256	7.256	0.000	96	508048	50.0	48.0	
29 Acrylonitrile	53	7.326	7.326	0.000	99	360800	500.0	466.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.466	7.466	0.000	97	623141	50.0	47.5	
31 Vinyl acetate	43	7.508	7.508	0.000	97	328521	50.0	49.8	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	81	270960	50.0	48.6	
33 2,2-Dichloropropane	77	7.941	7.941	0.000	88	500980	50.0	48.9	
35 Chlorobromomethane	128	8.038	8.038	0.000	53	78381	50.0	48.4	
34 Cyclohexane	84	8.038	8.038	0.000	87	531609	50.0	50.0	
36 Chloroform	83	8.094	8.094	0.000	92	480446	50.0	48.1	
39 Ethyl acetate	45	8.178	8.178	0.000	98	28801	100.0	88.8	
37 Carbon tetrachloride	117	8.248	8.248	0.000	97	350475	50.0	47.9	
38 Tetrahydrofuran	71	8.262	8.262	0.000	84	28139	100.0	88.5	
$ 41 Dibromofluoromethane (Surr	113	8.276	8.276	0.000	93	193034	50.0	50.6	
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	98	467223	50.0	48.5	
43 2-Butanone (MEK)	43	8.388	8.388	0.000	98	44932	50.0	45.7	a
42 1,1-Dichloropropene	75	8.429	8.429	0.000	96	456215	50.0	49.2	
125 Isooctane	57	8.499	8.499	0.000	96	1237110	50.0	49.6	
117 n-Heptane	43	8.583	8.583	0.000	89	525777	50.0	49.9	
44 Benzene	78	8.681	8.681	0.000	95	1206697	50.0	46.7	
45 Propionitrile	54	8.709	8.709	0.000	89	142738	500.0	468.5	
46 Methacrylonitrile	41	8.723	8.723	0.000	90	754220	500.0	472.2	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	98	597890	50.0	47.1	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	98	245806	50.0	49.5	
50 Isobutyl alcohol	42	8.807	8.807	0.000	92	66760	1250.0	984.0	
49 1,2-Dichloroethane	62	8.876	8.876	0.000	99	271301	50.0	45.8	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	994509	50.0	50.0	
53 Trichloroethene	95	9.212	9.212	0.000	60	291259	50.0	46.7	
52 Methylcyclohexane	55	9.212	9.212	0.000	87	457139	50.0	49.3	
54 n-Butanol	56	9.435	9.435	0.000	90	67134	1250.0	969.6	
55 Dibromomethane	93	9.617	9.617	0.000	96	100371	50.0	47.2	
124 Ethyl acrylate	55	9.645	9.645	0.000	99	136768	50.0	41.9	
56 1,2-Dichloropropane	63	9.714	9.714	0.000	93	244869	50.0	47.9	
57 Dichlorobromomethane	83	9.742	9.742	0.000	99	306851	50.0	47.3	
58 Methyl methacrylate	69	9.826	9.826	0.000	88	197403	100.0	85.9	
59 1,4-Dioxane	88	9.924	9.924	0.000	93	25054	1000.0	965.1	
60 2-Chloroethyl vinyl ether	63	10.217	10.217	0.000	91	83787	50.0	43.4	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	95	364801	50.0	49.0	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	93	1001299	50.0	51.5	
63 Toluene	92	10.524	10.524	0.000	98	734691	50.0	50.3	
64 2-Nitropropane	43	10.748	10.748	0.000	99	58995	100.0	92.1	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	97	96193	50.0	41.8	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	95	305328	50.0	49.8	
65 Tetrachloroethene	164	10.888	10.888	0.000	94	228815	50.0	47.5	
69 Ethyl methacrylate	69	10.957	10.957	0.000	87	190005	50.0	42.1	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	93	127067	50.0	47.8	
70 Chlorodibromomethane	129	11.223	11.223	0.000	91	133306	50.0	48.6	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	90	287156	50.0	48.0	
119 n-Butyl acetate	43	11.446	11.446	0.000	97	164341	50.0	41.2	
72 Ethylene Dibromide	107	11.474	11.474	0.000	98	122439	50.0	48.3	
74 2-Hexanone	43	11.572	11.572	0.000	94	63740	50.0	40.8	
75 1-Chlorohexane	91	11.837	11.837	0.000	97	445424	50.0	51.5	
* 76 Chlorobenzene-d5	117	11.893	11.893	0.000	94	626036	50.0	50.0	
78 Ethylbenzene	91	11.907	11.907	0.000	98	1421067	50.0	48.7	
77 Chlorobenzene	112	11.921	11.921	0.000	95	646204	50.0	48.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	93	182958	50.0	48.9	
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	100	501464	50.0	51.0	
82 o-Xylene	106	12.438	12.438	0.000	97	454049	50.0	53.1	
83 Styrene	104	12.480	12.480	0.000	94	701328	50.0	46.1	
84 Bromoform	173	12.550	12.550	0.000	95	84609	50.0	43.0	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	1335574	50.0	51.1	
$ 86 4-Bromofluorobenzene (Surr	95	13.010	13.010	0.000	88	338534	50.0	51.3	
88 N-Propylbenzene	91	13.094	13.094	0.000	99	1688770	50.0	51.0	
87 Bromobenzene	156	13.136	13.136	0.000	94	242309	50.0	48.6	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	95	161116	50.0	48.3	
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	94	1073290	50.0	51.3	
90 2-Chlorotoluene	91	13.276	13.276	0.000	93	1069164	50.0	49.5	
92 1,2,3-Trichloropropane	110	13.318	13.318	0.000	84	45152	50.0	47.2	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	94	41922	50.0	49.1	
94 Cyclohexanone	55	13.401	13.401	0.000	91	32840	500.0	430.1	
95 4-Chlorotoluene	91	13.429	13.429	0.000	98	950202	50.0	49.5	
96 tert-Butylbenzene	119	13.583	13.583	0.000	92	891643	50.0	50.3	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	98	1065318	50.0	50.4	
98 sec-Butylbenzene	105	13.751	13.751	0.000	95	1492185	50.0	50.4	
99 4-Isopropyltoluene	119	13.862	13.862	0.000	96	1144591	50.0	50.7	
100 1,3-Dichlorobenzene	146	14.002	14.002	0.000	94	458216	50.0	48.4	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	71	299567	50.0	50.0	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	97	983490	50.0	49.6	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	87	452012	50.0	48.1	
103 n-Butylbenzene	134	14.281	14.281	0.000	97	272769	50.0	51.0	
121 Benzyl chloride	126	14.323	14.323	0.000	95	53213	50.0	45.0	
104 1,2-Dichlorobenzene	146	14.519	14.519	0.000	96	381260	50.0	48.0	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	89	77736	50.0	45.1	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	66	21721	50.0	41.5	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	96	413959	50.0	48.1	
108 Hexachlorobutadiene	225	15.901	15.901	0.000	95	279707	50.0	48.1	
109 1,2,4-Trichlorobenzene	180	15.971	15.971	0.000	92	305690	50.0	48.2	
110 Naphthalene	128	16.320	16.320	0.000	98	331584	50.0	48.4	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	94	238130	50.0	46.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

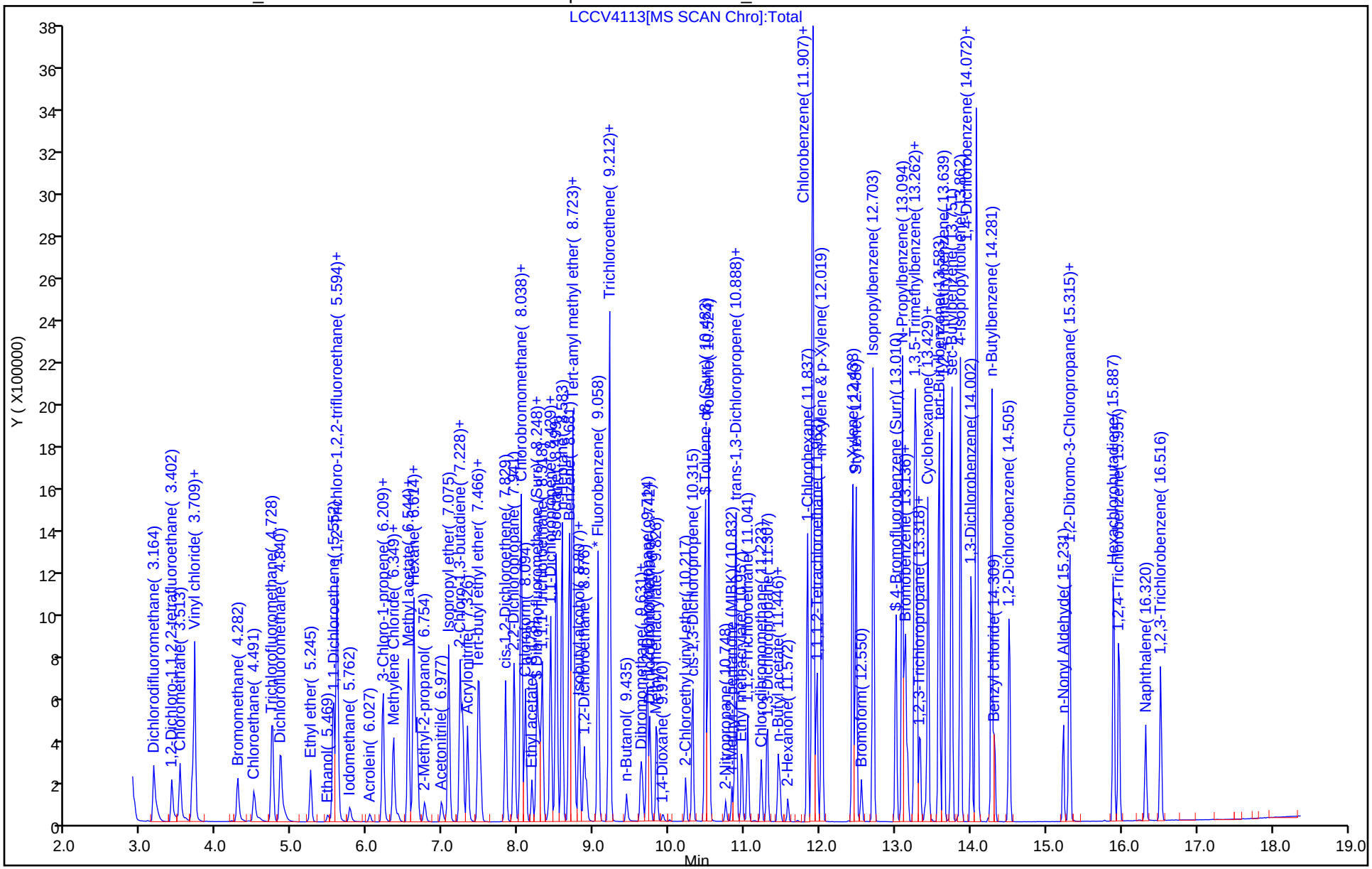
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8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:14 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LCCV4113.D

Injection Date:	19-Mar-2019 11:17:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

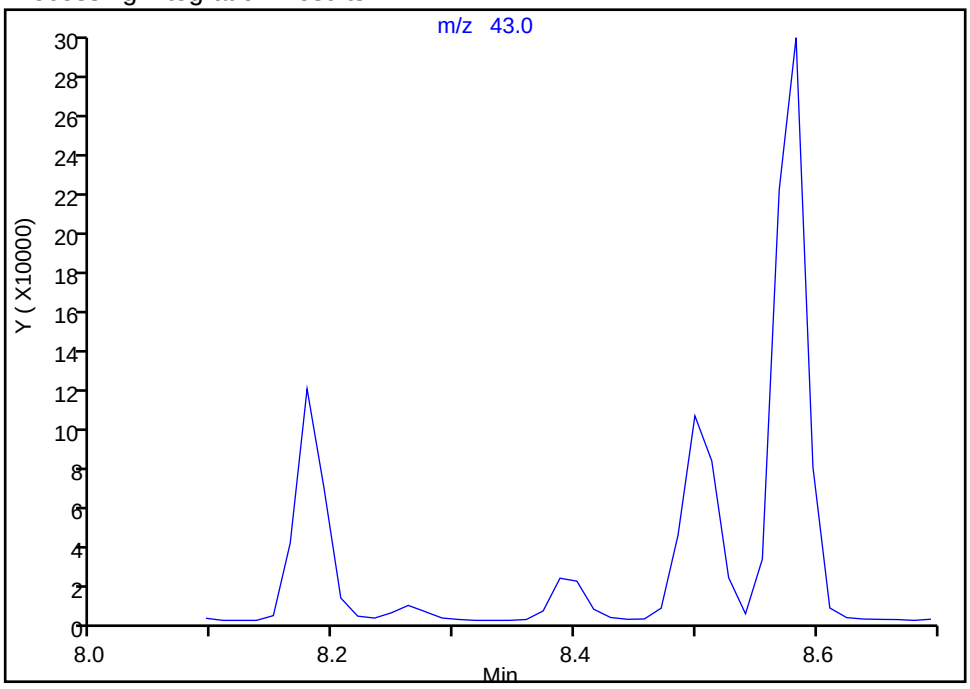
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Injection Date: 19-Mar-2019 11:17:30 Instrument ID: VMSL
Lims ID: CCVIS
Client ID:
Operator ID: KA ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

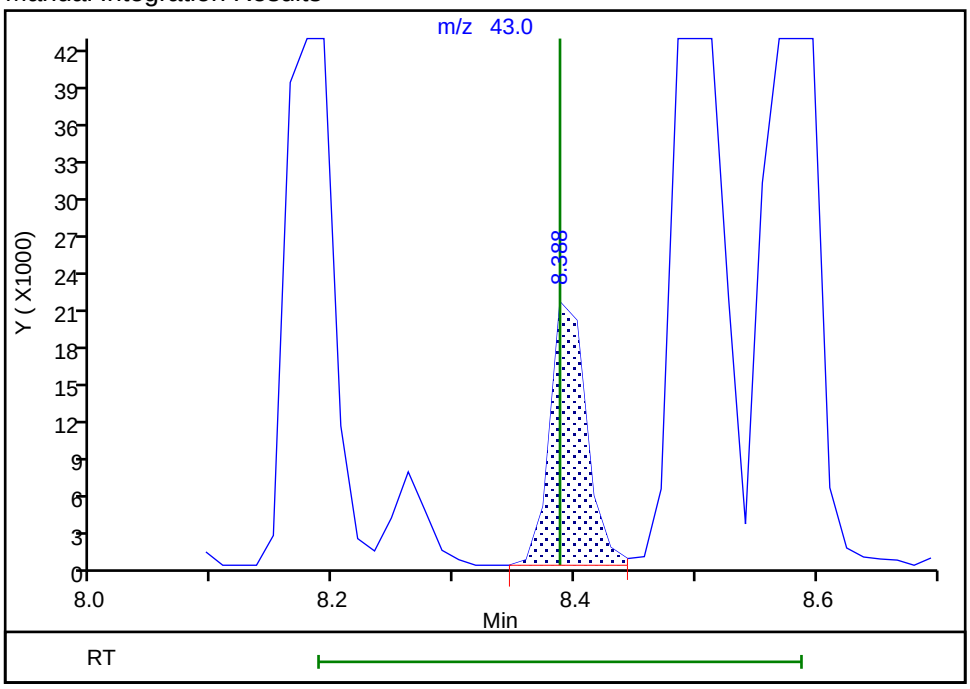
Not Detected
Expected RT: 8.39

Processing Integration Results



Manual Integration Results

RT: 8.39
Area: 44932
Amount: 45.731104
Amount Units: ug/l



Reviewer: aguk, 20-Mar-2019 15:22:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Lab Sample ID: CCVC 160-420035/21 Calibration Date: 03/19/2019 18:41

Instrument ID: VMSL Calib Start Date: 03/18/2019 10:33

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/18/2019 17:13

Lab File ID: LCCV4131.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.4193	0.4046	0.1000	48.2	50.0	-3.5	50.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.0990	0.1024	0.0100	51.7	50.0	3.4	50.0
Chloromethane	Ave	0.3435	0.2918	0.1000	42.5	50.0	-15.1	50.0
Vinyl chloride	Ave	0.3676	0.3362	0.1000	45.7	50.0	-8.6	50.0
Butadiene	Ave	0.3261	0.3195	0.0100	49.0	50.0	-2.0	50.0
Bromomethane	Ave	0.1989	0.1098	0.1000	27.6	50.0	-44.8	50.0
Chloroethane	Ave	0.2117	0.2139	0.1000	50.5	50.0	1.1	50.0
Trichlorofluoromethane	Ave	0.5093	0.4876	0.1000	47.9	50.0	-4.2	50.0
Dichlorofluoromethane	Ave	0.5757	0.5410	0.0100	47.0	50.0	-6.0	50.0
Ethyl ether	Ave	0.1202	0.1161	0.0100	48.3	50.0	-3.4	50.0
Ethanol	Ave	0.0012	0.0011*	0.0100	1820	2000	-9.2	50.0
1,1-Dichloroethene	Ave	0.2527	0.2421	0.1000	47.9	50.0	-4.2	50.0
Carbon disulfide	Ave	0.9802	0.9446	0.1000	48.2	50.0	-3.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2022	0.1926	0.1000	47.6	50.0	-4.8	50.0
Iodomethane	Qua		0.1079	0.0100	41.1	50.0	-17.8	50.0
Acrolein	Ave	0.0065	0.0073	0.0010	282	250	12.9	50.0
3-Chloro-1-propene	Ave	0.3099	0.3037	0.0100	49.0	50.0	-2.0	50.0
Isopropyl alcohol	Ave	0.0075	0.0060*	0.0100	404	500	-19.2	50.0
Methylene Chloride	Ave	0.2541	0.2381	0.1000	46.9	50.0	-6.3	50.0
Acetone	Ave	0.0330	0.0307*	0.1000	46.6	50.0	-6.8	50.0
trans-1,2-Dichloroethene	Ave	0.2817	0.2684	0.1000	47.6	50.0	-4.7	50.0
Methyl acetate	Ave	0.0081	0.0078*	0.1000	240	250	-4.1	50.0
Hexane	Ave	0.1027	0.1014	0.0100	49.4	50.0	-1.3	50.0
Methyl tert-butyl ether	Ave	0.5714	0.5445	0.1000	47.6	50.0	-4.7	50.0
2-Methyl-2-propanol	Ave	0.0125	0.0110	0.0100	440	500	-12.0	50.0
Acetonitrile	Ave	0.0129	0.0119	0.0010	464	500	-7.2	50.0
Isopropyl ether	Ave	0.6892	0.6814	0.0100	49.4	50.0	-1.1	50.0
2-Chloro-1,3-butadiene	Ave	0.4247	0.4256	0.0100	50.1	50.0	0.2	50.0
1,1-Dichloroethane	Ave	0.5316	0.5077	0.2000	47.8	50.0	-4.5	50.0
Acrylonitrile	Ave	0.0388	0.0363	0.0100	467	500	-6.5	50.0
Tert-butyl ethyl ether	Ave	0.6597	0.6458	0.0100	48.9	50.0	-2.1	50.0
Vinyl acetate	Ave	0.3315	0.2873	0.0100	43.3	50.0	-13.3	50.0
cis-1,2-Dichloroethene	Ave	0.2803	0.2704	0.1000	48.2	50.0	-3.5	50.0
2,2-Dichloropropane	Ave	0.5153	0.4661	0.0100	45.2	50.0	-9.6	50.0
Cyclohexane	Ave	0.5344	0.5206	0.1000	48.7	50.0	-2.6	50.0
Bromochloromethane	Ave	0.0815	0.0781	0.0100	47.9	50.0	-4.1	50.0
Chloroform	Ave	0.5017	0.4768	0.2000	47.5	50.0	-5.0	50.0
Ethyl acetate	Lin1		0.0147	0.0100	90.0	100	-10.0	50.0
Carbon tetrachloride	Ave	0.3676	0.3570	0.1000	48.6	50.0	-2.9	50.0
Tetrahydrofuran	Lin1		0.0136	0.0010	85.4	100	-14.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Lab Sample ID: CCVC 160-420035/21 Calibration Date: 03/19/2019 18:41

Instrument ID: VMSL Calib Start Date: 03/18/2019 10:33

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/18/2019 17:13

Lab File ID: LCCV4131.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4848	0.4648	0.1000	47.9	50.0	-4.1	50.0
2-Butanone (MEK)	Ave	0.0494	0.0452*	0.1000	45.8	50.0	-8.5	50.0
1,1-Dichloropropene	Ave	0.4658	0.4530	0.0100	48.6	50.0	-2.8	50.0
Isooctane	Ave	1.254	1.236	0.0100	49.3	50.0	-1.5	50.0
n-Heptane	Ave	0.5297	0.5181	0.0100	48.9	50.0	-2.2	50.0
Benzene	Ave	1.299	1.199	0.5000	46.2	50.0	-7.7	50.0
Propionitrile	Ave	0.0153	0.0141	0.0010	461	500	-7.7	50.0
Methacrylonitrile	Ave	0.0803	0.0754	0.0100	470	500	-6.1	50.0
Tert-amyl methyl ether	Ave	0.6383	0.6163	0.0100	48.3	50.0	-3.5	50.0
Isobutyl alcohol	Lin1		0.0023	0.0010	839	1250	-32.9	50.0
1,2-Dichloroethane	Ave	0.2977	0.2734	0.1000	45.9	50.0	-8.2	50.0
Methylcyclohexane	Ave	0.4663	0.4502	0.1000	48.3	50.0	-3.4	50.0
Trichloroethene	Ave	0.3139	0.2961	0.2000	47.2	50.0	-5.7	50.0
n-Butanol	Lin1		0.0024*	0.0100	859	1250	-31.3	50.0
Dibromomethane	Ave	0.1068	0.1003	0.0100	46.9	50.0	-6.1	50.0
Ethyl acrylate	Lin1		0.1379	0.0100	42.0	50.0	-16.1	50.0
1,2-Dichloropropane	Ave	0.2572	0.2460	0.1000	47.8	50.0	-4.4	50.0
Bromodichloromethane	Ave	0.3259	0.3147	0.2000	48.3	50.0	-3.5	50.0
Methyl methacrylate	Lin1		0.1007	0.0100	87.1	100	-12.9	50.0
1,4-Dioxane	Ave	0.0013	0.0012	0.0010	946	1000	-5.4	50.0
2-Chloroethyl vinyl ether	Lin1		0.0750	0.0100	38.9	50.0	-22.1	50.0
cis-1,3-Dichloropropene	Ave	0.3746	0.3637	0.2000	48.5	50.0	-2.9	50.0
Toluene	Ave	1.165	1.182	0.4000	50.7	50.0	1.4	50.0
2-Nitropropane	Qua		0.0481	0.0100	93.8	100	-6.2	50.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1590	0.1000	43.2	50.0	-13.6	50.0
Tetrachloroethene	Ave	0.3845	0.3690	0.2000	48.0	50.0	-4.0	50.0
trans-1,3-Dichloropropene	Ave	0.4900	0.4912	0.1000	50.1	50.0	0.2	50.0
Ethyl methacrylate	Lin1		0.3061	0.0100	42.4	50.0	-15.1	50.0
1,1,2-Trichloroethane	Ave	0.2123	0.2055	0.1000	48.4	50.0	-3.2	50.0
Dibromochloromethane	Ave	0.2191	0.2228	0.1000	50.8	50.0	1.7	50.0
1,3-Dichloropropane	Ave	0.4782	0.4707	0.0100	49.2	50.0	-1.6	50.0
n-Butyl acetate	Lin1		0.2753	0.0100	43.0	50.0	-13.9	50.0
1,2-Dibromoethane	Ave	0.2023	0.1988	0.1000	49.1	50.0	-1.7	50.0
2-Hexanone	Lin1		0.1049	0.1000	41.9	50.0	-16.2	50.0
1-Chlorohexane	Ave	0.6904	0.7125	0.0100	51.6	50.0	3.2	50.0
Ethylbenzene	Ave	2.329	2.292	0.1000	49.2	50.0	-1.6	50.0
Chlorobenzene	Ave	1.066	1.048	0.5000	49.2	50.0	-1.6	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2991	0.3001	0.0100	50.2	50.0	0.3	50.0
m,p-Xylenes	Ave	0.7856	0.8004	0.1000	50.9	50.0	1.9	50.0
o-Xylene	Ave	0.6835	0.7304	0.3000	53.4	50.0	6.9	50.0
Styrene	Lin1		1.136	0.3000	46.7	50.0	-6.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Lab Sample ID: CCVC 160-420035/21 Calibration Date: 03/19/2019 18:41

Instrument ID: VMSL Calib Start Date: 03/18/2019 10:33

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/18/2019 17:13

Lab File ID: LCCV4131.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromoform	Lin1		0.2875	0.1000	43.7	50.0	-12.6	50.0
Isopropylbenzene	Ave	4.364	4.481	0.1000	51.3	50.0	2.7	50.0
N-Propylbenzene	Ave	5.527	5.622	0.0100	50.9	50.0	1.7	50.0
Bromobenzene	Ave	0.8318	0.8149	0.0100	49.0	50.0	-2.0	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5567	0.5284	0.3000	47.5	50.0	-5.1	50.0
1,3,5-Trimethylbenzene	Ave	3.495	3.617	0.0100	51.7	50.0	3.5	50.0
2-Chlorotoluene	Ave	3.608	3.602	0.0100	49.9	50.0	-0.2	50.0
1,2,3-Trichloropropane	Ave	0.1597	0.1525	0.0100	47.7	50.0	-4.5	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1426	0.1366	0.0100	47.9	50.0	-4.3	50.0
Cyclohexanone	Lin1		0.0114	0.0010	445	500	-11.0	50.0
4-Chlorotoluene	Ave	3.205	3.215	0.0100	50.2	50.0	0.3	50.0
tert-Butylbenzene	Ave	2.959	2.999	0.0100	50.7	50.0	1.3	50.0
1,2,4-Trimethylbenzene	Ave	3.529	3.585	0.0100	50.8	50.0	1.6	50.0
sec-Butylbenzene	Ave	4.938	4.997	0.0100	50.6	50.0	1.2	50.0
p-Isopropyltoluene	Ave	3.769	3.859	0.0100	51.2	50.0	2.4	50.0
1,3-Dichlorobenzene	Ave	1.579	1.528	0.6000	48.4	50.0	-3.2	50.0
1,2,3-Trimethylbenzene	Ave	3.308	3.318	0.0100	50.2	50.0	0.3	50.0
1,4-Dichlorobenzene	Ave	1.568	1.490	0.5000	47.5	50.0	-5.0	50.0
n-Butylbenzene	Ave	0.8930	0.8964	0.0100	50.2	50.0	0.4	50.0
Benzyl chloride	Lin1		0.1516	0.0100	38.8	50.0	-22.3	50.0
1,2-Dichlorobenzene	Lin1		1.263	0.4000	47.6	50.0	-4.7	50.0
n-Nonyl Aldehyde	Qua		0.2706	0.0100	46.7	50.0	-6.6	50.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0720	0.0500	41.2	50.0	-17.6	50.0
1,3,5-Trichlorobenzene	Ave	1.437	1.361	0.0100	47.4	50.0	-5.3	50.0
Hexachlorobutadiene	Ave	0.9701	0.9176	0.0100	47.3	50.0	-5.4	50.0
1,2,4-Trichlorobenzene	Ave	1.059	0.997	0.2000	47.1	50.0	-5.8	50.0
Naphthalene	Ave	1.143	1.068	0.0100	46.8	50.0	-6.5	50.0
1,2,3-Trichlorobenzene	Ave	0.8504	0.7802	0.0100	45.9	50.0	-8.3	50.0
Dibromofluoromethane (Surr)	Ave	0.1918	0.1990	0.0100	51.9	50.0	3.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2497	0.2473	0.0100	49.5	50.0	-1.0	50.0
Toluene-d8 (Surr)	Ave	1.552	1.637	0.0100	52.8	50.0	5.5	50.0
4-Bromofluorobenzene (Surr)	Ave	1.101	1.161	0.0100	52.8	50.0	5.5	50.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LCCV4131.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 19-Mar-2019 18:41:30 ALS Bottle#: 19 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-021
Misc. Info.: CCVC
Operator ID: KA Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:32 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:41:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	100	430419	50.0	48.2	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.416	3.402	0.014	96	108897	50.0	51.7	
3 Chloromethane	50	3.514	3.513	0.001	100	310399	50.0	42.5	
4 Vinyl chloride	62	3.681	3.681	0.000	99	357628	50.0	45.7	
122 Butadiene	39	3.709	3.709	0.000	94	339884	50.0	49.0	
5 Bromomethane	94	4.282	4.282	0.000	92	116757	50.0	27.6	
6 Chloroethane	64	4.505	4.491	0.014	98	227576	50.0	50.5	
7 Trichlorofluoromethane	101	4.743	4.742	0.001	98	518741	50.0	47.9	
123 Dichlorofluoromethane	67	4.854	4.840	0.014	97	575561	50.0	47.0	
8 Ethyl ether	74	5.245	5.245	0.000	89	123494	50.0	48.3	
11 Ethanol	45	5.483	5.469	0.014	100	47019	2000.0	1816.2	
9 1,1-Dichloroethene	96	5.553	5.552	0.001	95	257597	50.0	47.9	
10 Carbon disulfide	76	5.595	5.594	0.001	99	1004859	50.0	48.2	
12 1,1,2-Trichloro-1,2,2-trif	151	5.609	5.594	0.015	93	204898	50.0	47.6	
13 Iodomethane	142	5.762	5.762	0.000	99	114769	50.0	41.1	
S 26 1,2-Dichloroethene, Total	96				0			95.9	
14 Acrolein	56	6.042	6.027	0.015	99	38914	250.0	282.3	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	91	323101	50.0	49.0	
16 Isopropyl alcohol	45	6.223	6.223	0.000	97	64197	500.0	404.0	
17 Methylene Chloride	84	6.349	6.349	0.000	89	253316	50.0	46.9	
18 Acetone	43	6.419	6.404	0.015	100	32688	50.0	46.6	
20 Methyl acetate	74	6.558	6.544	0.014	96	41218	250.0	239.6	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	97	285555	50.0	47.6	
21 Hexane	86	6.614	6.614	0.000	94	107823	50.0	49.4	
22 Methyl tert-butyl ether	73	6.656	6.656	0.000	87	579249	50.0	47.6	
23 2-Methyl-2-propanol	59	6.768	6.754	0.014	98	116898	500.0	440.0	
24 Acetonitrile	41	6.991	6.977	0.014	99	126815	500.0	463.8	
25 Isopropyl ether	45	7.075	7.075	0.000	93	724921	50.0	49.4	
27 2-Chloro-1,3-butadiene	53	7.229	7.228	0.001	91	452762	50.0	50.1	
28 1,1-Dichloroethane	63	7.271	7.256	0.015	97	540155	50.0	47.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.326	7.326	0.000	99	386243	500.0	467.3	
30 Tert-butyl ethyl ether	59	7.480	7.466	0.014	97	686984	50.0	48.9	
31 Vinyl acetate	43	7.508	7.508	0.000	97	305646	50.0	43.3	
32 cis-1,2-Dichloroethene	96	7.843	7.829	0.014	81	287655	50.0	48.2	
33 2,2-Dichloropropane	77	7.955	7.941	0.014	88	495806	50.0	45.2	
35 Chlorobromomethane	128	8.053	8.038	0.015	56	83095	50.0	47.9	
34 Cyclohexane	84	8.039	8.038	0.001	87	553844	50.0	48.7	
36 Chloroform	83	8.095	8.094	0.001	92	507280	50.0	47.5	
39 Ethyl acetate	45	8.178	8.178	0.000	99	31226	100.0	90.0	
37 Carbon tetrachloride	117	8.248	8.248	0.000	97	379741	50.0	48.6	
38 Tetrahydrofuran	71	8.262	8.262	0.000	83	28982	100.0	85.4	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	211649	50.0	51.9	
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	98	494514	50.0	47.9	
43 2-Butanone (MEK)	43	8.402	8.388	0.014	98	48106	50.0	45.8	
42 1,1-Dichloropropene	75	8.430	8.429	0.001	96	481895	50.0	48.6	
125 Isooctane	57	8.514	8.499	0.015	96	1314626	50.0	49.3	
117 n-Heptane	43	8.583	8.583	0.000	88	551192	50.0	48.9	
44 Benzene	78	8.681	8.681	0.000	95	1275881	50.0	46.2	
45 Propionitrile	54	8.709	8.709	0.000	95	150401	500.0	461.5	
46 Methacrylonitrile	41	8.723	8.723	0.000	90	802409	500.0	469.7	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	97	655599	50.0	48.3	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	99	263063	50.0	49.5	
50 Isobutyl alcohol	42	8.807	8.807	0.000	86	60131	1250.0	839.2	
49 1,2-Dichloroethane	62	8.877	8.876	0.001	99	290825	50.0	45.9	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1063836	50.0	50.0	
53 Trichloroethene	95	9.212	9.212	0.000	56	314949	50.0	47.2	
52 Methylcyclohexane	55	9.212	9.212	0.000	87	478933	50.0	48.3	
54 n-Butanol	56	9.449	9.435	0.014	93	62800	1250.0	858.9	
55 Dibromomethane	93	9.631	9.617	0.014	96	106684	50.0	46.9	
124 Ethyl acrylate	55	9.645	9.645	0.000	99	146680	50.0	42.0	
56 1,2-Dichloropropane	63	9.715	9.714	0.001	93	261664	50.0	47.8	
57 Dichlorobromomethane	83	9.757	9.742	0.015	98	334737	50.0	48.3	
58 Methyl methacrylate	69	9.840	9.826	0.014	88	214298	100.0	87.1	
59 1,4-Dioxane	88	9.924	9.924	0.000	93	26273	1000.0	946.1	
60 2-Chloroethyl vinyl ether	63	10.217	10.217	0.000	92	79808	50.0	38.9	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	95	386916	50.0	48.5	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1078363	50.0	52.8	
63 Toluene	92	10.525	10.524	0.001	98	778600	50.0	50.7	
64 2-Nitropropane	43	10.748	10.748	0.000	98	63356	100.0	93.8	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	96	104734	50.0	43.2	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	95	323519	50.0	50.1	
65 Tetrachloroethene	164	10.888	10.888	0.000	94	243032	50.0	48.0	
69 Ethyl methacrylate	69	10.972	10.957	0.015	87	201575	50.0	42.4	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	93	135362	50.0	48.4	
70 Chlorodibromomethane	129	11.223	11.223	0.000	90	146731	50.0	50.8	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	89	310027	50.0	49.2	
119 n-Butyl acetate	43	11.446	11.446	0.000	97	181334	50.0	43.0	
72 Ethylene Dibromide	107	11.474	11.474	0.000	98	130928	50.0	49.1	
74 2-Hexanone	43	11.572	11.572	0.000	95	69064	50.0	41.9	
S 73 1,3-Dichloropropene, Total	75				0			98.7	
75 1-Chlorohexane	91	11.837	11.837	0.000	97	469261	50.0	51.6	
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	90	658595	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.907	11.907	0.000	99	1509381	50.0	49.2	
77 Chlorobenzene	112	11.921	11.921	0.000	94	690413	50.0	49.2	
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	92	197610	50.0	50.2	
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	99	527128	50.0	50.9	
82 o-Xylene	106	12.438	12.438	0.000	98	481039	50.0	53.4	
83 Styrene	104	12.480	12.480	0.000	93	748295	50.0	46.7	
84 Bromoform	173	12.550	12.550	0.000	95	90558	50.0	43.7	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	1411386	50.0	51.3	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.010	0.001	87	365760	50.0	52.8	
88 N-Propylbenzene	91	13.094	13.094	0.000	98	1770745	50.0	50.9	
87 Bromobenzene	156	13.136	13.136	0.000	95	256678	50.0	49.0	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	95	166428	50.0	47.5	
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	93	1139329	50.0	51.7	
90 2-Chlorotoluene	91	13.276	13.276	0.000	94	1134688	50.0	49.9	
92 1,2,3-Trichloropropane	110	13.318	13.318	0.000	82	48034	50.0	47.7	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	81	43013	50.0	47.9	
94 Cyclohexanone	55	13.402	13.401	0.001	89	35801	500.0	444.8	
95 4-Chlorotoluene	91	13.430	13.429	0.001	98	1012674	50.0	50.2	
96 tert-Butylbenzene	119	13.583	13.583	0.000	91	944713	50.0	50.7	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	97	1129255	50.0	50.8	
98 sec-Butylbenzene	105	13.751	13.751	0.000	95	1573929	50.0	50.6	
99 4-Isopropyltoluene	119	13.863	13.862	0.001	96	1215591	50.0	51.2	
100 1,3-Dichlorobenzene	146	14.016	14.002	0.014	95	481247	50.0	48.4	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	73	314989	50.0	50.0	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	97	1045279	50.0	50.2	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	92	469235	50.0	47.5	
103 n-Butylbenzene	134	14.282	14.281	0.001	97	282361	50.0	50.2	
121 Benzyl chloride	126	14.323	14.323	0.000	97	47764	50.0	38.8	
104 1,2-Dichlorobenzene	146	14.519	14.519	0.000	94	397900	50.0	47.6	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	89	85220	50.0	46.7	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	77	22682	50.0	41.2	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	96	428696	50.0	47.4	
108 Hexachlorobutadiene	225	15.902	15.901	0.001	94	289020	50.0	47.3	
109 1,2,4-Trichlorobenzene	180	15.972	15.971	0.001	93	314119	50.0	47.1	
110 Naphthalene	128	16.321	16.320	0.001	98	336558	50.0	46.8	
S 112 Xylenes, Total	106				0			104.4	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	94	245738	50.0	45.9	
S 113 Trihalomethanes, Total	1				0			190.3	

Reagents:

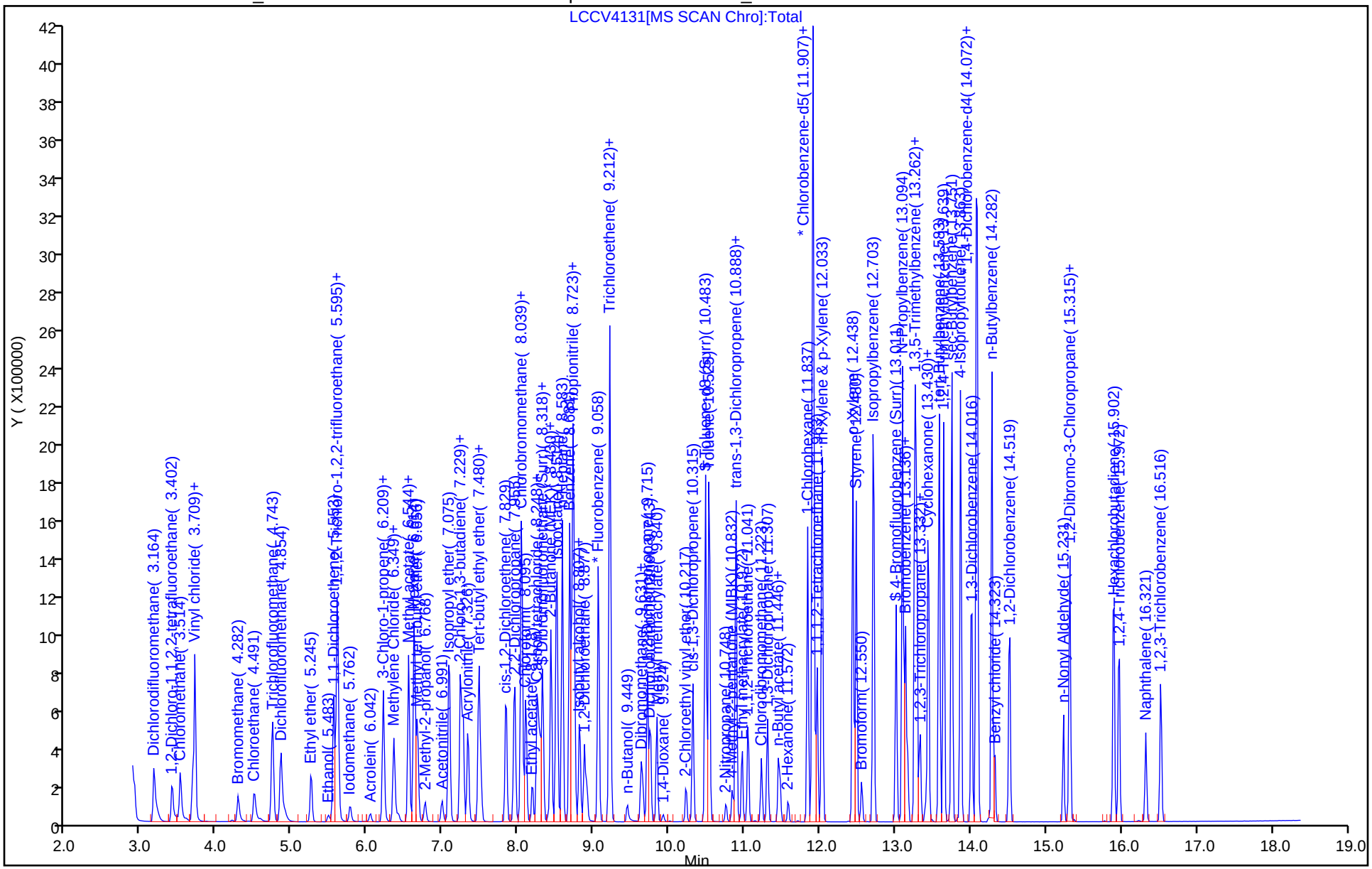
8260 NewWkMix_00319	Amount Added: 10.00	Units: uL	
8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:33 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LCCV4131.D

Injection Date:	19-Mar-2019 18:41:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	CCVC			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LBFB4076.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 18-Mar-2019 10:06:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: BFB
Operator ID: DEK Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 19-Mar-2019 16:06:39 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0338

First Level Reviewer: dismanga Date: 18-Mar-2019 11:28:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 114 BFB	95	4.158	4.158	0.000	0	159364	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

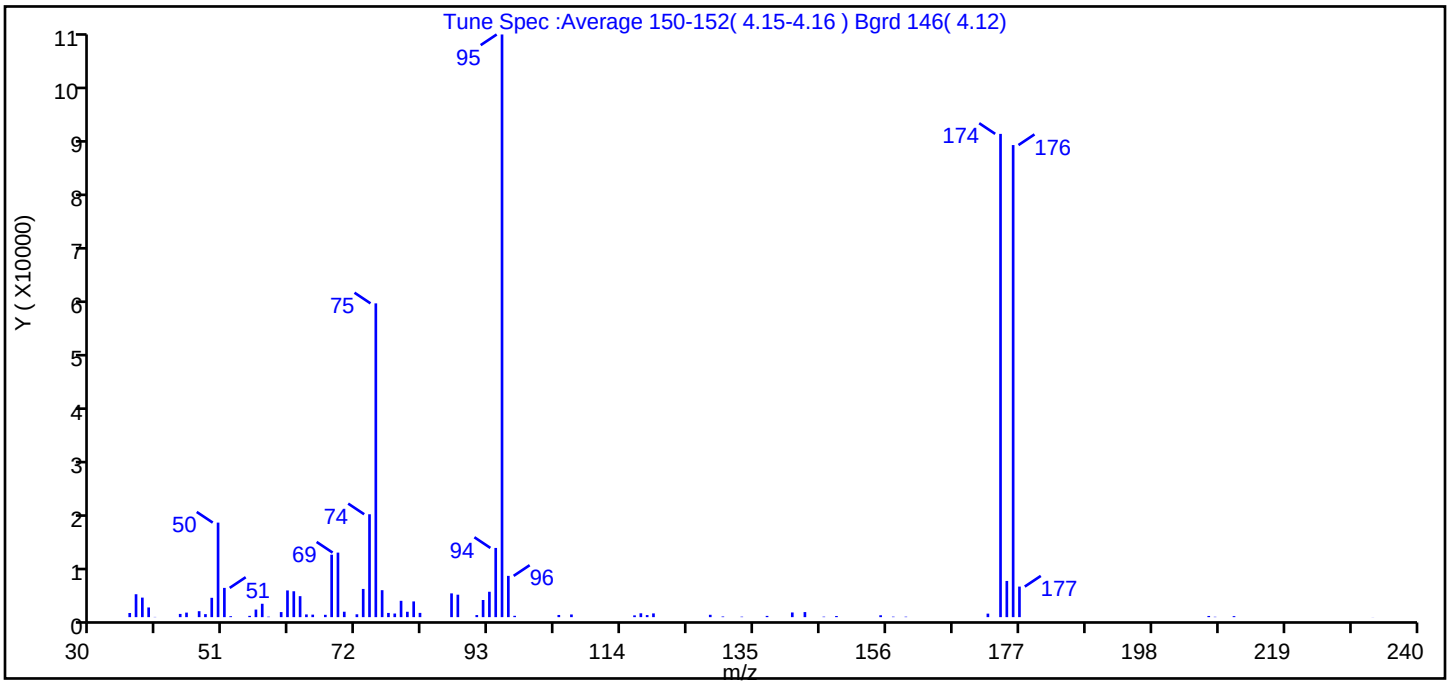
BFB_00093 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LBFB4076.D
Injection Date: 18-Mar-2019 10:06:30 Instrument ID: VMSL
Lims ID: BFB
Client ID:
Operator ID: DEK ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Tune Method: BFB Method 8260

$ 114 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.2
75	30 to 60% of m/z 95	53.9
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.9
175	5 to 9% of m/z 174	6.2 (7.5)
176	Greater than 95% but less than 101% of m/z 174	81.0 (97.7)
177	5 to 9% of m/z 176	5.2 (6.5)

Report Date: 19-Mar-2019 16:06:40 Chrom Revision: 2.3 11-Feb-2019 16:31:10

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LBFB4076.D\5mL-8260_VMSL.rslt\spectra.d
Injection Date: 18-Mar-2019 10:06:30
Spectrum: Tune Spec :Average 150-152(4.15-4.16) Bgrd 146(4.12)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 73

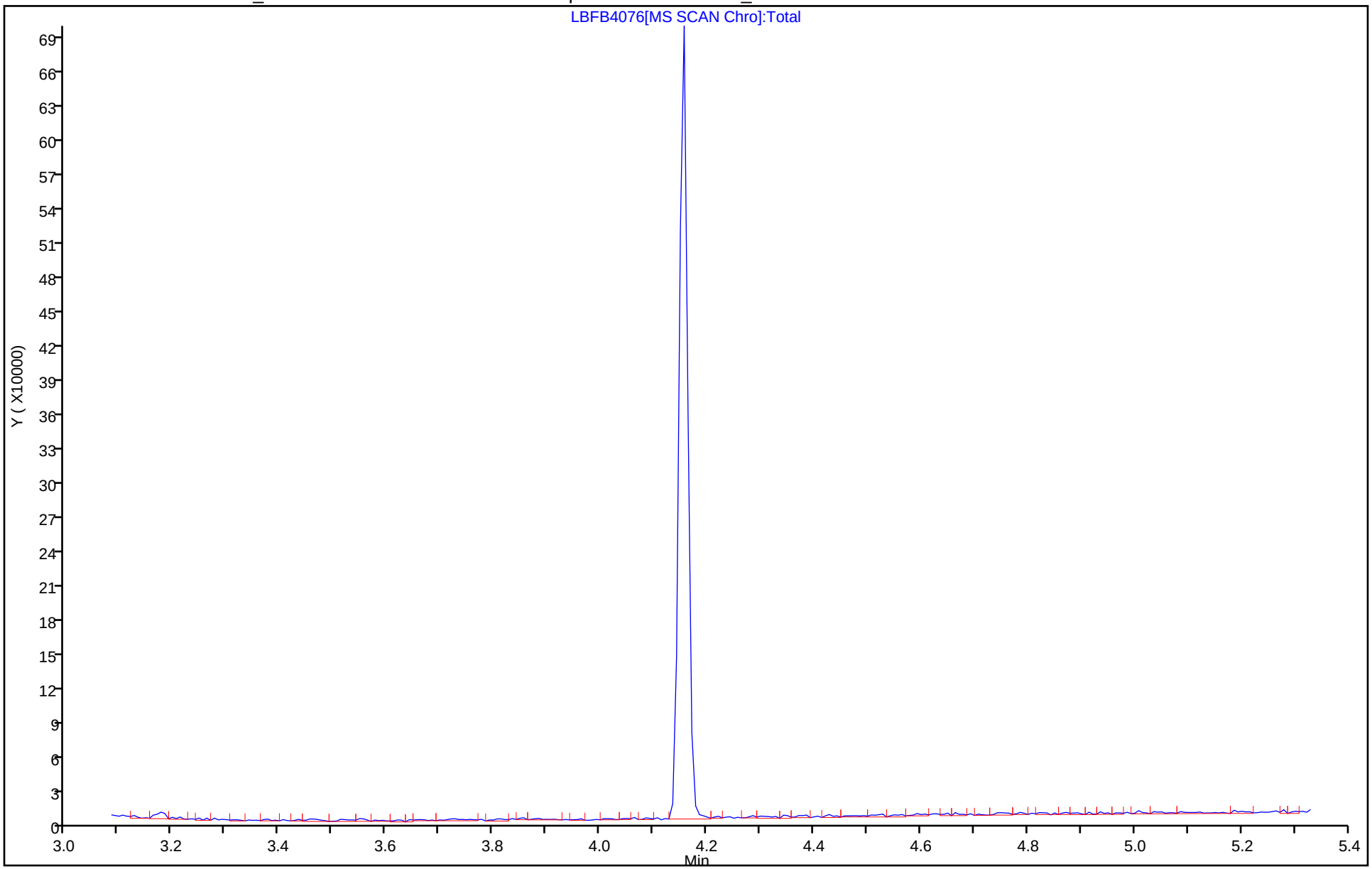
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	764	62.00	4760	87.00	4370	141.00	862
37.00	4214	63.00	3859	88.00	4130	143.00	934
38.00	3593	64.00	499	91.00	384	146.00	89
39.00	1779	65.00	463	92.00	3153	148.00	209
40.00	39	67.00	430	93.00	4669	155.00	345
44.00	593	68.00	11483	94.00	12728	157.00	89
45.00	833	69.00	11867	95.00	107152	159.00	84
47.00	1094	70.00	997	96.00	7591	172.00	647
48.00	554	72.00	526	97.00	244	174.00	88872
49.00	3556	73.00	5187	104.00	401	175.00	6657
50.00	17384	74.00	18920	106.00	491	176.00	86816
51.00	5379	75.00	57704	116.00	327	177.00	5621
52.00	172	76.00	4958	117.00	711	207.00	216
55.00	236	77.00	773	118.00	382	208.00	67
56.00	1394	78.00	664	119.00	688	211.00	186
57.00	2461	79.00	3004	128.00	432	233.00	16
58.00	86	80.00	990	130.00	120		
60.00	932	81.00	2892	133.00	85		
61.00	4913	82.00	782	137.00	228		

Report Date: 19-Mar-2019 16:06:40 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LBFB4076.D

Injection Date:	18-Mar-2019 10:06:30	Instrument ID:	VMSL	Operator ID:	DEK
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LBFB4112.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 19-Mar-2019 10:49:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: BFB
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:12 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 114 BFB	95	4.151	4.151	0.000	0	855619	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

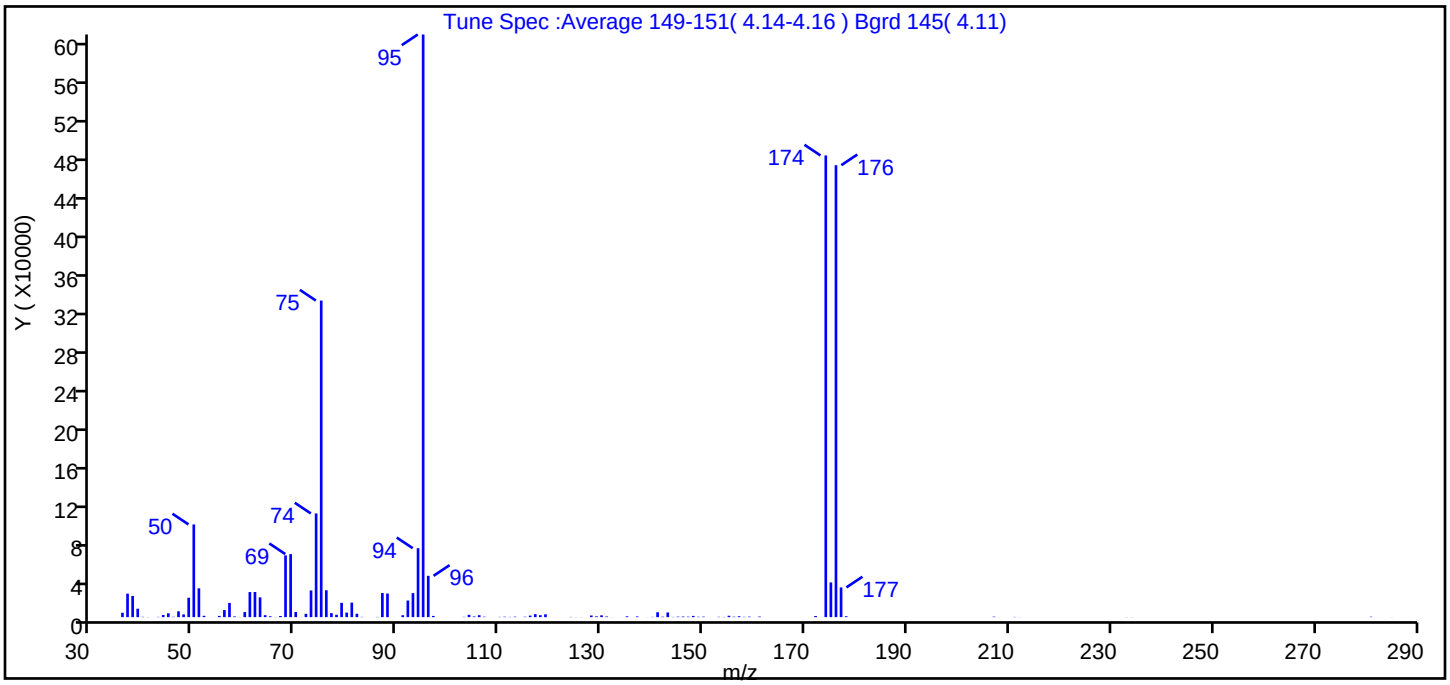
BFB_00093 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LBFB4112.D
Injection Date: 19-Mar-2019 10:49:30 Instrument ID: VMSL
Lims ID: BFB
Client ID:
Operator ID: KA ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Tune Method: BFB Method 8260

$ 114 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.9
75	30 to 60% of m/z 95	54.3
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	79.2
175	5 to 9% of m/z 174	6.0 (7.5)
176	Greater than 95% but less than 101% of m/z 174	77.6 (97.9)
177	5 to 9% of m/z 176	5.1 (6.6)

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LBFB4112.D\5mL-8260_VMSL.rslt\spectra.d
Injection Date: 19-Mar-2019 10:49:30
Spectrum: Tune Spec :Average 149-151(4.14-4.16) Bgrd 145(4.11)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 113

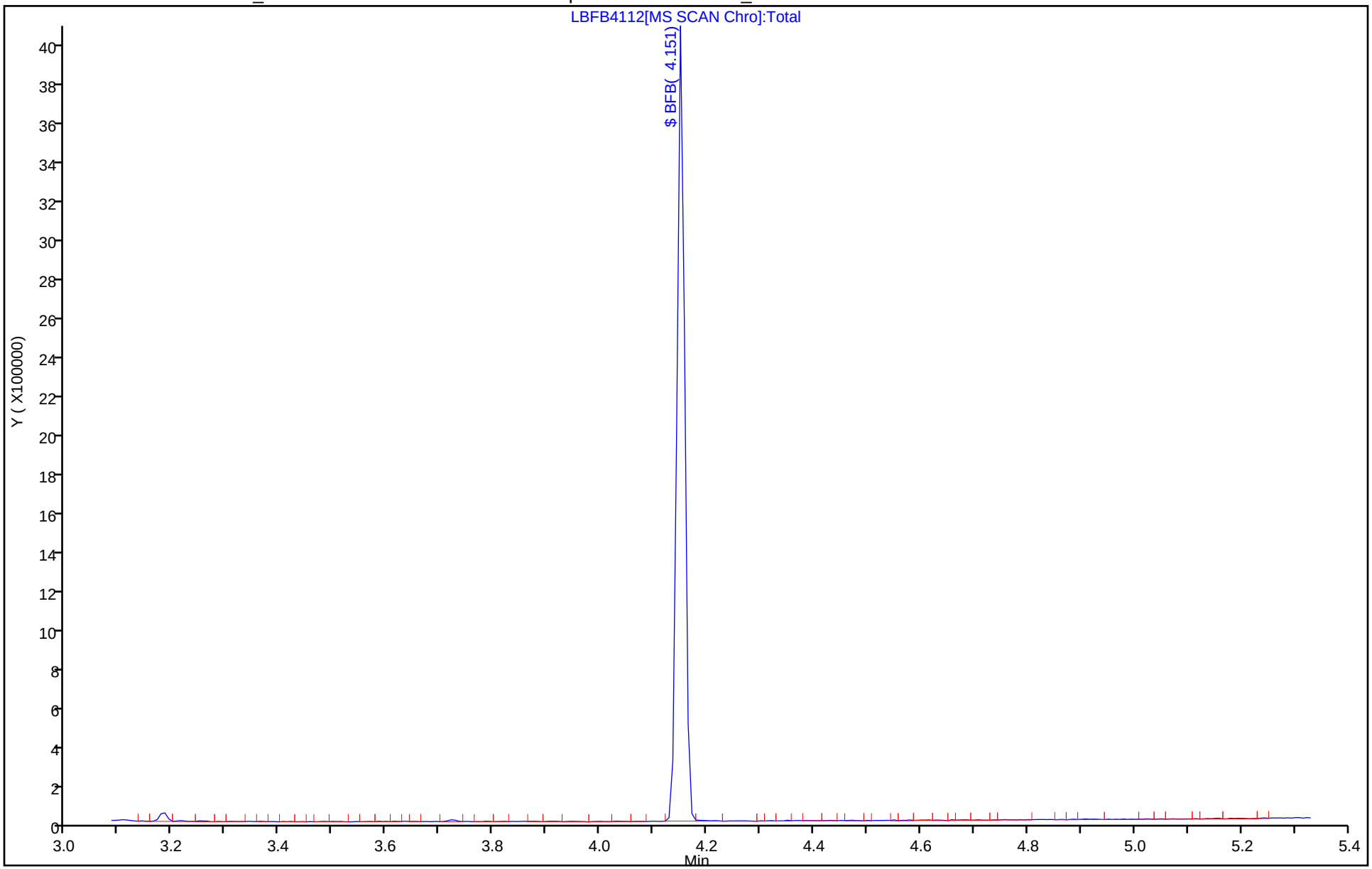
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4573	68.00	64456	106.00	2050	147.00	486
37.00	24552	69.00	65808	107.00	441	148.00	1265
38.00	22136	70.00	5392	110.00	253	149.00	393
39.00	8781	71.00	83	111.00	451	150.00	547
40.00	337	72.00	3505	112.00	255	153.00	334
41.00	113	73.00	27848	113.00	490	154.00	190
43.00	261	74.00	108272	115.00	423	155.00	1457
44.00	2268	75.00	330496	116.00	1616	156.00	452
45.00	4019	76.00	28104	117.00	3105	157.00	944
46.00	365	77.00	4185	118.00	2026	158.00	321
47.00	6098	78.00	2500	119.00	2962	159.00	542
48.00	2876	79.00	14915	124.00	235	161.00	610
49.00	20256	80.00	4729	125.00	133	172.00	1205
50.00	96800	81.00	15170	126.00	92	174.00	481984
51.00	30056	82.00	3547	128.00	1714	175.00	36232
52.00	1397	83.00	282	129.00	827	176.00	471808
55.00	1312	86.00	236	130.00	1891	177.00	31032
56.00	7416	87.00	25184	131.00	663	178.00	943
57.00	14838	88.00	24648	132.00	84	207.00	504
58.00	737	91.00	2002	135.00	858	208.00	69
59.00	89	92.00	17360	137.00	736	211.00	241
60.00	5299	93.00	25104	139.00	94	212.00	86
61.00	26184	94.00	71984	140.00	256	233.00	109
62.00	26248	95.00	608256	141.00	5099	234.00	102
63.00	20640	96.00	43136	142.00	459	281.00	436
64.00	2054	97.00	1279	143.00	4883	285.00	85
65.00	882	103.00	274	144.00	238		
66.00	99	104.00	2448	145.00	529		
67.00	1202	105.00	698	146.00	622		

Report Date: 20-Mar-2019 15:42:13 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LBFB4112.D

Injection Date:	19-Mar-2019 10:49:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 160-420035/7

Matrix: Water Lab File ID: LBLK4117.D

Analysis Method: 8260C DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 12:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	2.5	U M	5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	1.5
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	3.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	1.8
67-64-1	Acetone	10	U	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.74
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.46
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.74
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.65
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.50
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.57
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	2.5	U	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 160-420035/7

Matrix: Water Lab File ID: LBLK4117.D

Analysis Method: 8260C DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 12:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.56
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.3
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.0
75-01-4	Vinyl chloride	2.0	U	5.0	2.0	1.9
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		81-118
460-00-4	4-Bromofluorobenzene (Surr)	107		85-114
1868-53-7	Dibromofluoromethane (Surr)	98		80-119
2037-26-5	Toluene-d8 (Surr)	104		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LBLK4117.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 19-Mar-2019 12:55:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: MB
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:14 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:27:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.164					ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.402					ND	
3 Chloromethane	50		3.513					ND	
4 Vinyl chloride	62		3.681					ND	
122 Butadiene	39		3.709					ND	
5 Bromomethane	94		4.282					ND	
6 Chloroethane	64		4.491					ND	
7 Trichlorofluoromethane	101		4.742					ND	
123 Dichlorofluoromethane	67		4.840					ND	
8 Ethyl ether	74		5.245					ND	
11 Ethanol	45		5.469					ND	
9 1,1-Dichloroethene	96		5.552					ND	
10 Carbon disulfide	76		5.594					ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.594					ND	
13 Iodomethane	142		5.762					ND	
S 26 1,2-Dichloroethene, Total	96		5.816					ND	
14 Acrolein	56		6.027					ND	
15 3-Chloro-1-propene	39		6.209					ND	
16 Isopropyl alcohol	45		6.223					ND	U
17 Methylene Chloride	84		6.349					ND	
18 Acetone	43		6.404					ND	
20 Methyl acetate	74		6.544					ND	
19 trans-1,2-Dichloroethene	96		6.544					ND	
21 Hexane	86		6.614					ND	
22 Methyl tert-butyl ether	73		6.656					ND	
23 2-Methyl-2-propanol	59		6.754					ND	
24 Acetonitrile	41		6.977					ND	
25 Isopropyl ether	45		7.075					ND	
27 2-Chloro-1,3-butadiene	53		7.228					ND	
28 1,1-Dichloroethane	63		7.256					ND	
29 Acrylonitrile	53		7.326					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.466					ND	
31 Vinyl acetate	43		7.508					ND	
32 cis-1,2-Dichloroethene	96		7.829					ND	
33 2,2-Dichloropropane	77		7.941					ND	
35 Chlorobromomethane	128		8.038					ND	
34 Cyclohexane	84		8.038					ND	
36 Chloroform	83		8.094					ND	
39 Ethyl acetate	45		8.178					ND	
37 Carbon tetrachloride	117		8.248					ND	
38 Tetrahydrofuran	71		8.262					ND	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	191289	50.0	49.2	
40 1,1,1-Trichloroethane	97		8.318					ND	
43 2-Butanone (MEK)	43		8.388					ND	
42 1,1-Dichloropropene	75		8.429					ND	
125 Isooctane	57		8.499					ND	
117 n-Heptane	43		8.583					ND	
44 Benzene	78		8.681					ND	
45 Propionitrile	54		8.709					ND	
46 Methacrylonitrile	41		8.723					ND	
48 Tert-amyl methyl ether	73		8.737					ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	98	263717	50.0	52.1	
50 Isobutyl alcohol	42		8.807					ND	
49 1,2-Dichloroethane	62		8.876					ND	U
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1012797	50.0	50.0	
118 1,4-Difluorobenzene	114		9.130					ND	
53 Trichloroethene	95		9.212					ND	
52 Methylcyclohexane	55		9.212					ND	
54 n-Butanol	56		9.435					ND	
55 Dibromomethane	93		9.617					ND	
124 Ethyl acrylate	55		9.645					ND	
56 1,2-Dichloropropane	63		9.714					ND	
57 Dichlorobromomethane	83		9.742					ND	
58 Methyl methacrylate	69		9.826					ND	
59 1,4-Dioxane	88		9.924					ND	
60 2-Chloroethyl vinyl ether	63		10.217					ND	
128 2-Pentanone	43		10.253					ND	
61 cis-1,3-Dichloropropene	75		10.315					ND	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1021327	50.0	52.2	
63 Toluene	92		10.524					ND	
64 2-Nitropropane	43		10.748					ND	
66 4-Methyl-2-pentanone (MIBK	43		10.832					ND	
67 trans-1,3-Dichloropropene	75		10.888					ND	
65 Tetrachloroethene	164		10.888					ND	
69 Ethyl methacrylate	69		10.957					ND	
68 1,1,2-Trichloroethane	83		11.041					ND	
70 Chlorodibromomethane	129		11.223					ND	
71 1,3-Dichloropropane	76		11.307					ND	
119 n-Butyl acetate	43		11.446					ND	
72 Ethylene Dibromide	107		11.474					ND	
74 2-Hexanone	43		11.572					ND	
S 73 1,3-Dichloropropene, Total	75		11.620					ND	
75 1-Chlorohexane	91		11.837					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	91	630959	50.0	50.0	
78 Ethylbenzene	91		11.907					ND	
77 Chlorobenzene	112		11.921					ND	
79 1,1,1,2-Tetrachloroethane	131		11.963					ND	
80 m-Xylene & p-Xylene	106		12.033					ND	
82 o-Xylene	106		12.438					ND	
83 Styrene	104		12.480					ND	
84 Bromoform	173		12.550					ND	
85 Isopropylbenzene	105		12.703					ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.010	13.010	0.000	88	349513	50.0	53.3	
88 N-Propylbenzene	91		13.094					ND	
87 Bromobenzene	156		13.136					ND	
89 1,1,2,2-Tetrachloroethane	83		13.164					ND	
91 1,3,5-Trimethylbenzene	105		13.262					ND	
90 2-Chlorotoluene	91		13.276					ND	
92 1,2,3-Trichloropropane	110		13.318					ND	
93 trans-1,4-Dichloro-2-buten	53		13.332					ND	
94 Cyclohexanone	55		13.401					ND	
95 4-Chlorotoluene	91		13.429					ND	
81 Pentachloroethane	167		13.557					ND	
96 tert-Butylbenzene	119		13.583					ND	
97 1,2,4-Trimethylbenzene	105		13.639					ND	
98 sec-Butylbenzene	105		13.751					ND	
99 4-Isopropyltoluene	119		13.862					ND	
100 1,3-Dichlorobenzene	146		14.002					ND	U
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	97	298158	50.0	50.0	
120 1,2,3-Trimethylbenzene	105		14.072					ND	
102 1,4-Dichlorobenzene	146		14.086					ND	U
103 n-Butylbenzene	134	14.281	14.281	0.000	25	1298		0.2437	
121 Benzyl chloride	126		14.323					ND	
104 1,2-Dichlorobenzene	146		14.519					ND	U
106 n-Nonyl Aldehyde	57		15.231					ND	
105 1,2-Dibromo-3-Chloropropan	157		15.301					ND	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	93	4721		0.5511	
108 Hexachlorobutadiene	225	15.901	15.901	0.000	88	5007		0.8656	
109 1,2,4-Trichlorobenzene	180	15.971	15.971	0.000	90	5100		0.8078	
110 Naphthalene	128		16.320					ND	
S 112 Xylenes, Total	106		16.500					ND	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	93	5446		1.07	
126 C6-C12	1		0.000					ND	
S 113 Trihalomethanes, Total	1		0.000					ND	
127 2-Methylpentane	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

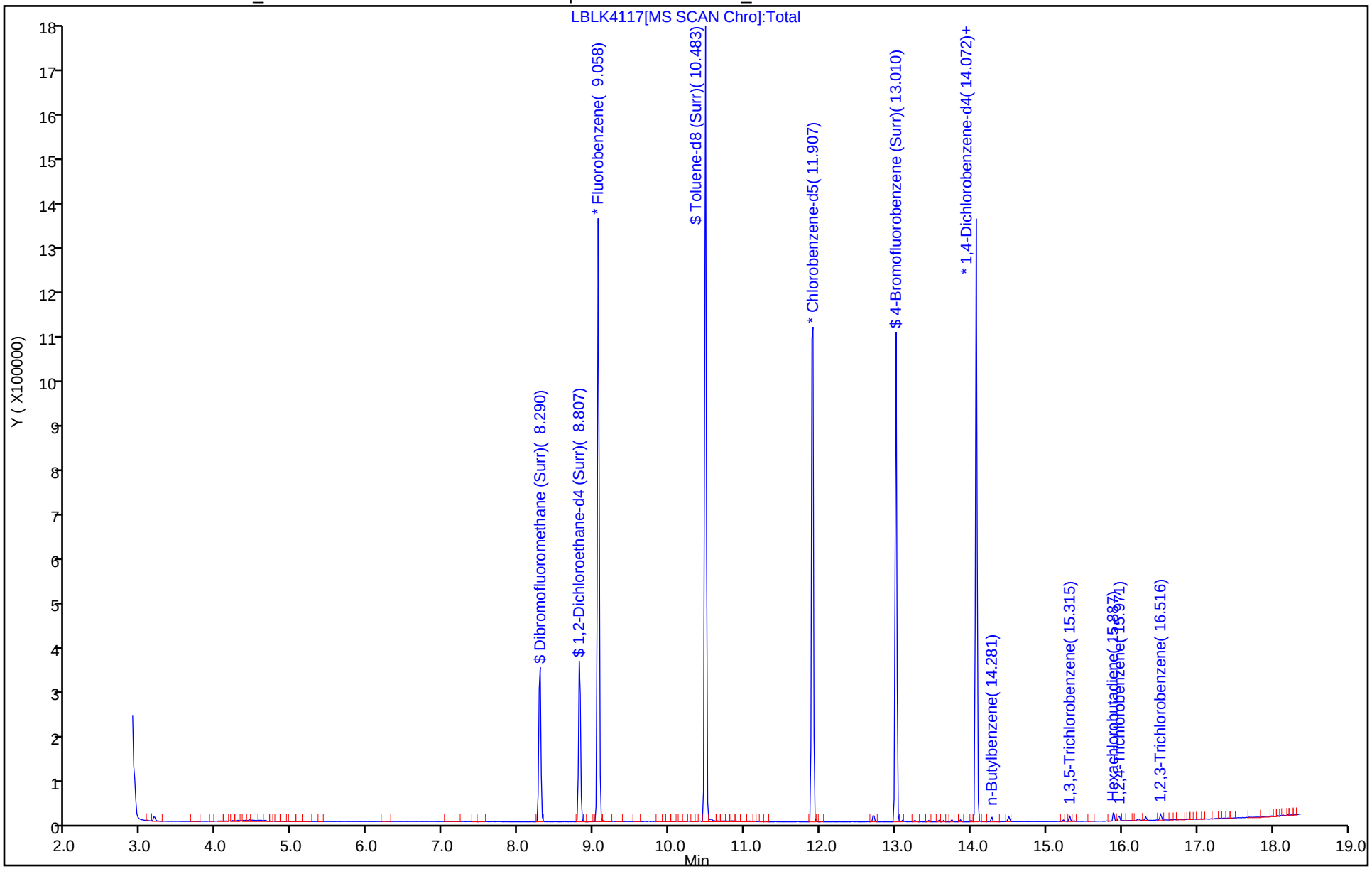
8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:24 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LBLK4117.D

Injection Date:	19-Mar-2019 12:55:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LBLK4117.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 19-Mar-2019 12:55:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: MB
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:14 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:27:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.2	98.46
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	52.1	104.26
$ 62 Toluene-d8 (Surr)	50.0	52.2	104.31
$ 86 4-Bromofluorobenzene (Surr)	50.0	53.3	106.51

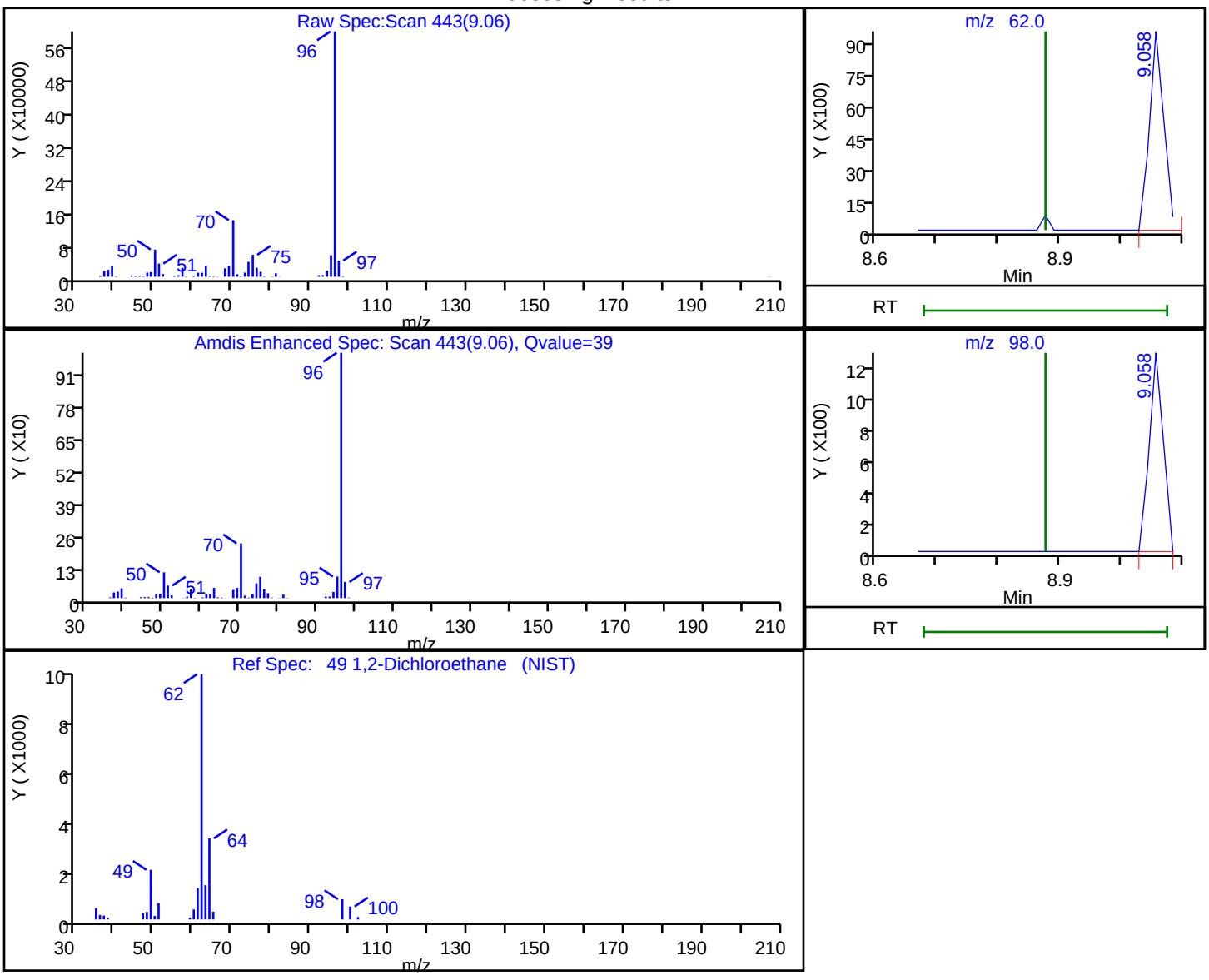
User Disabled Compound Report

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LBLK4117.D
Injection Date: 19-Mar-2019 12:55:30 Instrument ID: VMSL
Lims ID: MB
Client ID:
Operator ID: KA ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

49 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
9.06	62.00	15793	2.618654
9.06	98.00	1928	

Reviewer: aguk, 20-Mar-2019 15:27:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 160-420035/4

Matrix: Water Lab File ID: LLCS4114.D

Analysis Method: 8260C DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 11:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	48.7		5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	47.4		5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	51.7		5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	50.2		5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	47.4		5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	48.6		5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	48.5		5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	49.1		5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	52.0		5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	49.9		5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	47.3		10	5.0	3.3
106-93-4	1,2-Dibromoethane	51.4		5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	47.2		5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	48.4		5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	50.2		5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	51.1		5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	48.0		5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	51.4		20	5.0	1.5
95-49-8	2-Chlorotoluene	48.7		5.0	2.5	0.86
591-78-6	2-Hexanone	46.5		20	5.0	3.6
106-43-4	4-Chlorotoluene	49.0		5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	46.2		20	10	1.8
67-64-1	Acetone	50.2		20	10	3.2
71-43-2	Benzene	46.2		5.0	2.5	0.33
108-86-1	Bromobenzene	48.8		5.0	2.5	0.74
74-97-5	Bromochloromethane	48.6		5.0	2.5	0.77
75-27-4	Bromodichloromethane	48.9		5.0	2.5	0.46
75-25-2	Bromoform	45.6		5.0	2.5	2.1
74-83-9	Bromomethane	41.8		10	5.0	2.7
75-15-0	Carbon disulfide	48.7		5.0	2.5	0.74
56-23-5	Carbon tetrachloride	47.3		5.0	2.5	0.65
108-90-7	Chlorobenzene	48.0		5.0	2.5	0.50
75-00-3	Chloroethane	41.2		10	2.5	1.0
67-66-3	Chloroform	47.8		5.0	2.5	0.57
74-87-3	Chloromethane	48.1		10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	48.6		5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 160-420035/4

Matrix: Water Lab File ID: LLCS4114.D

Analysis Method: 8260C DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 11:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	49.8		5.0	5.0	2.6
124-48-1	Dibromochloromethane	50.9		5.0	2.5	0.56
74-95-3	Dibromomethane	48.9		5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	48.2		10	2.5	1.3
100-41-4	Ethylbenzene	48.2		5.0	2.5	0.44
98-82-8	Isopropylbenzene	49.9		5.0	2.5	1.9
179601-23-1	m,p-Xylenes	50.2		5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	49.7		5.0	2.5	0.79
75-09-2	Methylene Chloride	47.6		7.5	5.0	1.7
91-20-3	Naphthalene	53.8		5.0	5.0	3.0
104-51-8	n-Butylbenzene	50.4		5.0	2.5	1.2
103-65-1	N-Propylbenzene	50.1		5.0	2.5	1.4
95-47-6	o-Xylene	52.5		5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	50.2		5.0	2.5	1.3
135-98-8	sec-Butylbenzene	49.5		5.0	2.5	1.1
100-42-5	Styrene	46.2		5.0	2.5	2.0
98-06-6	tert-Butylbenzene	49.4		5.0	2.5	1.1
127-18-4	Tetrachloroethene	46.9		5.0	2.5	0.60
108-88-3	Toluene	49.8		5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	47.9		5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	51.5		5.0	2.5	2.1
79-01-6	Trichloroethene	46.1		5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	46.6		5.0	2.5	1.0
75-01-4	Vinyl chloride	48.9		5.0	2.0	1.9
1330-20-7	Xylenes (total)	103		10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		81-118
460-00-4	4-Bromofluorobenzene (Surr)	103		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	101		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LLCS4114.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 19-Mar-2019 11:41:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: LCS
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:14 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:24:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	100	418566	50.0	48.2	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.402	3.402	0.000	95	105446	50.0	51.4	
3 Chloromethane	50	3.513	3.513	0.000	100	342155	50.0	48.1	
4 Vinyl chloride	62	3.681	3.681	0.000	97	372326	50.0	48.9	
122 Butadiene	39	3.709	3.709	0.000	93	336058	50.0	49.8	
5 Bromomethane	94	4.282	4.282	0.000	92	172098	50.0	41.8	
6 Chloroethane	64	4.491	4.491	0.000	98	180628	50.0	41.2	
7 Trichlorofluoromethane	101	4.728	4.742	-0.014	99	491853	50.0	46.6	
123 Dichlorofluoromethane	67	4.854	4.840	0.014	97	560022	50.0	47.0	
8 Ethyl ether	74	5.245	5.245	0.000	88	125622	50.0	50.5	
11 Ethanol	45	5.483	5.469	0.014	99	53525	2000.0	2124.0	
9 1,1-Dichloroethene	96	5.553	5.552	0.000	95	254296	50.0	48.6	
10 Carbon disulfide	76	5.594	5.594	0.000	99	988145	50.0	48.7	
12 1,1,2-Trichloro-1,2,2-trif	151	5.594	5.594	0.000	96	197192	50.0	47.1	
13 Iodomethane	142	5.762	5.762	0.000	99	131331	50.0	46.8	
14 Acrolein	56	6.027	6.027	0.000	98	41481	250.0	309.1	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	91	312698	50.0	48.7	
16 Isopropyl alcohol	45	6.223	6.223	0.000	97	73478	500.0	475.1	
17 Methylene Chloride	84	6.349	6.349	0.000	89	250663	50.0	47.6	
18 Acetone	43	6.404	6.404	0.000	99	34255	50.0	50.2	
20 Methyl acetate	74	6.544	6.544	0.000	96	44170	250.0	263.8	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	97	279204	50.0	47.9	
21 Hexane	86	6.614	6.614	0.000	91	104972	50.0	49.4	
22 Methyl tert-butyl ether	73	6.656	6.656	0.000	85	587620	50.0	49.7	
23 2-Methyl-2-propanol	59	6.754	6.754	0.000	99	132664	500.0	513.0	
24 Acetonitrile	41	6.991	6.977	0.014	99	141940	500.0	533.4	
25 Isopropyl ether	45	7.075	7.075	0.000	93	701429	50.0	49.1	
27 2-Chloro-1,3-butadiene	53	7.228	7.228	0.000	92	430640	50.0	49.0	
28 1,1-Dichloroethane	63	7.256	7.256	0.000	97	522230	50.0	47.4	
29 Acrylonitrile	53	7.326	7.326	0.000	100	416809	500.0	518.0	
30 Tert-butyl ethyl ether	59	7.480	7.466	0.014	97	676292	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Vinyl acetate	43	7.508	7.508	0.000	97	362241	50.0	52.8	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	81	281905	50.0	48.6	
33 2,2-Dichloropropane	77	7.941	7.941	0.000	88	512391	50.0	48.0	
35 Chlorobromomethane	128	8.038	8.038	0.000	53	82043	50.0	48.6	
34 Cyclohexane	84	8.038	8.038	0.000	87	541944	50.0	49.0	
36 Chloroform	83	8.094	8.094	0.000	94	496698	50.0	47.8	
39 Ethyl acetate	45	8.178	8.178	0.000	99	33103	100.0	97.7	
37 Carbon tetrachloride	117	8.248	8.248	0.000	98	360273	50.0	47.3	
38 Tetrahydrofuran	71	8.262	8.262	0.000	83	31671	100.0	95.3	
$ 41 Dibromofluoromethane (Surr	113	8.276	8.276	0.000	93	199288	50.0	50.2	
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	98	475576	50.0	47.4	
43 2-Butanone (MEK)	43	8.402	8.388	0.014	99	52634	50.0	51.4	
42 1,1-Dichloropropene	75	8.430	8.429	0.001	96	467472	50.0	48.5	
125 Isooctane	57	8.499	8.499	0.000	96	1272861	50.0	49.0	
117 n-Heptane	43	8.583	8.583	0.000	88	534607	50.0	48.7	
44 Benzene	78	8.681	8.681	0.000	95	1242166	50.0	46.2	
45 Propionitrile	54	8.709	8.709	0.000	92	166536	500.0	524.9	
46 Methacrylonitrile	41	8.723	8.723	0.000	90	854724	500.0	514.0	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	97	651398	50.0	49.3	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	98	258285	50.0	49.9	
50 Isobutyl alcohol	42	8.807	8.807	0.000	91	81304	1250.0	1139.5	
49 1,2-Dichloroethane	62	8.876	8.876	0.000	98	290961	50.0	47.2	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1035514	50.0	50.0	
53 Trichloroethene	95	9.212	9.212	0.000	58	299864	50.0	46.1	
52 Methylcyclohexane	55	9.212	9.212	0.000	87	467165	50.0	48.4	
54 n-Butanol	56	9.435	9.435	0.000	90	82785	1250.0	1132.3	
55 Dibromomethane	93	9.631	9.617	0.014	96	108227	50.0	48.9	
124 Ethyl acrylate	55	9.645	9.645	0.000	99	158736	50.0	46.3	
56 1,2-Dichloropropane	63	9.714	9.714	0.000	94	257551	50.0	48.4	
57 Dichlorobromomethane	83	9.742	9.742	0.000	99	330007	50.0	48.9	
58 Methyl methacrylate	69	9.840	9.826	0.014	87	229154	100.0	95.2	
59 1,4-Dioxane	88	9.924	9.924	0.000	93	29687	1000.0	1098.3	
60 2-Chloroethyl vinyl ether	63	10.217	10.217	0.000	92	96083	50.0	47.5	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	95	386686	50.0	49.8	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1024299	50.0	50.4	
63 Toluene	92	10.524	10.524	0.000	99	759034	50.0	49.8	
64 2-Nitropropane	43	10.748	10.748	0.000	98	69195	100.0	102.0	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	95	111935	50.0	46.2	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	94	330444	50.0	51.5	
65 Tetrachloroethene	164	10.888	10.888	0.000	95	235900	50.0	46.9	
69 Ethyl methacrylate	69	10.971	10.957	0.014	87	216116	50.0	45.5	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	92	139379	50.0	50.2	
70 Chlorodibromomethane	129	11.223	11.223	0.000	90	146018	50.0	50.9	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	89	319512	50.0	51.1	
119 n-Butyl acetate	43	11.446	11.446	0.000	97	194917	50.0	46.3	
72 Ethylene Dibromide	107	11.474	11.474	0.000	98	136167	50.0	51.4	
74 2-Hexanone	43	11.572	11.572	0.000	95	76802	50.0	46.5	
75 1-Chlorohexane	91	11.837	11.837	0.000	96	461658	50.0	51.1	
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	94	654325	50.0	50.0	
78 Ethylbenzene	91	11.907	11.907	0.000	98	1468973	50.0	48.2	
77 Chlorobenzene	112	11.921	11.921	0.000	90	669520	50.0	48.0	
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	93	190648	50.0	48.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	100	515963	50.0	50.2	
82 o-Xylene	106	12.438	12.438	0.000	97	469204	50.0	52.5	
83 Styrene	104	12.480	12.480	0.000	93	734398	50.0	46.2	
84 Bromoform	173	12.550	12.550	0.000	95	94797	50.0	45.6	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	1372636	50.0	49.9	
$ 86 4-Bromofluorobenzene (Surr	95	13.010	13.010	0.000	88	357301	50.0	51.5	
88 N-Propylbenzene	91	13.094	13.094	0.000	99	1745683	50.0	50.1	
87 Bromobenzene	156	13.136	13.136	0.000	94	255861	50.0	48.8	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	95	181444	50.0	51.7	
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	94	1107498	50.0	50.2	
90 2-Chlorotoluene	91	13.276	13.276	0.000	93	1107679	50.0	48.7	
92 1,2,3-Trichloropropane	110	13.318	13.318	0.000	86	52357	50.0	52.0	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	94	47986	50.0	53.3	
94 Cyclohexanone	55	13.402	13.401	0.001	91	39894	500.0	491.5	
95 4-Chlorotoluene	91	13.429	13.429	0.000	98	991529	50.0	49.0	
96 tert-Butylbenzene	119	13.583	13.583	0.000	92	922237	50.0	49.4	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	97	1110756	50.0	49.9	
98 sec-Butylbenzene	105	13.751	13.751	0.000	95	1542529	50.0	49.5	
99 4-Isopropyltoluene	119	13.862	13.862	0.000	96	1194667	50.0	50.2	
100 1,3-Dichlorobenzene	146	14.002	14.002	0.000	94	480557	50.0	48.2	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	71	315409	50.0	50.0	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	97	1033355	50.0	49.5	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	87	475822	50.0	48.1	
103 n-Butylbenzene	134	14.281	14.281	0.000	97	284063	50.0	50.4	
121 Benzyl chloride	126	14.309	14.323	-0.014	95	61389	50.0	49.0	
104 1,2-Dichlorobenzene	146	14.519	14.519	0.000	95	406271	50.0	48.6	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	89	93412	50.0	50.4	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	67	26375	50.0	47.3	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	96	441799	50.0	48.8	
108 Hexachlorobutadiene	225	15.901	15.901	0.000	95	294316	50.0	48.1	
109 1,2,4-Trichlorobenzene	180	15.971	15.971	0.000	93	334857	50.0	50.1	
110 Naphthalene	128	16.320	16.320	0.000	98	387908	50.0	53.8	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	94	263606	50.0	49.1	

Reagents:

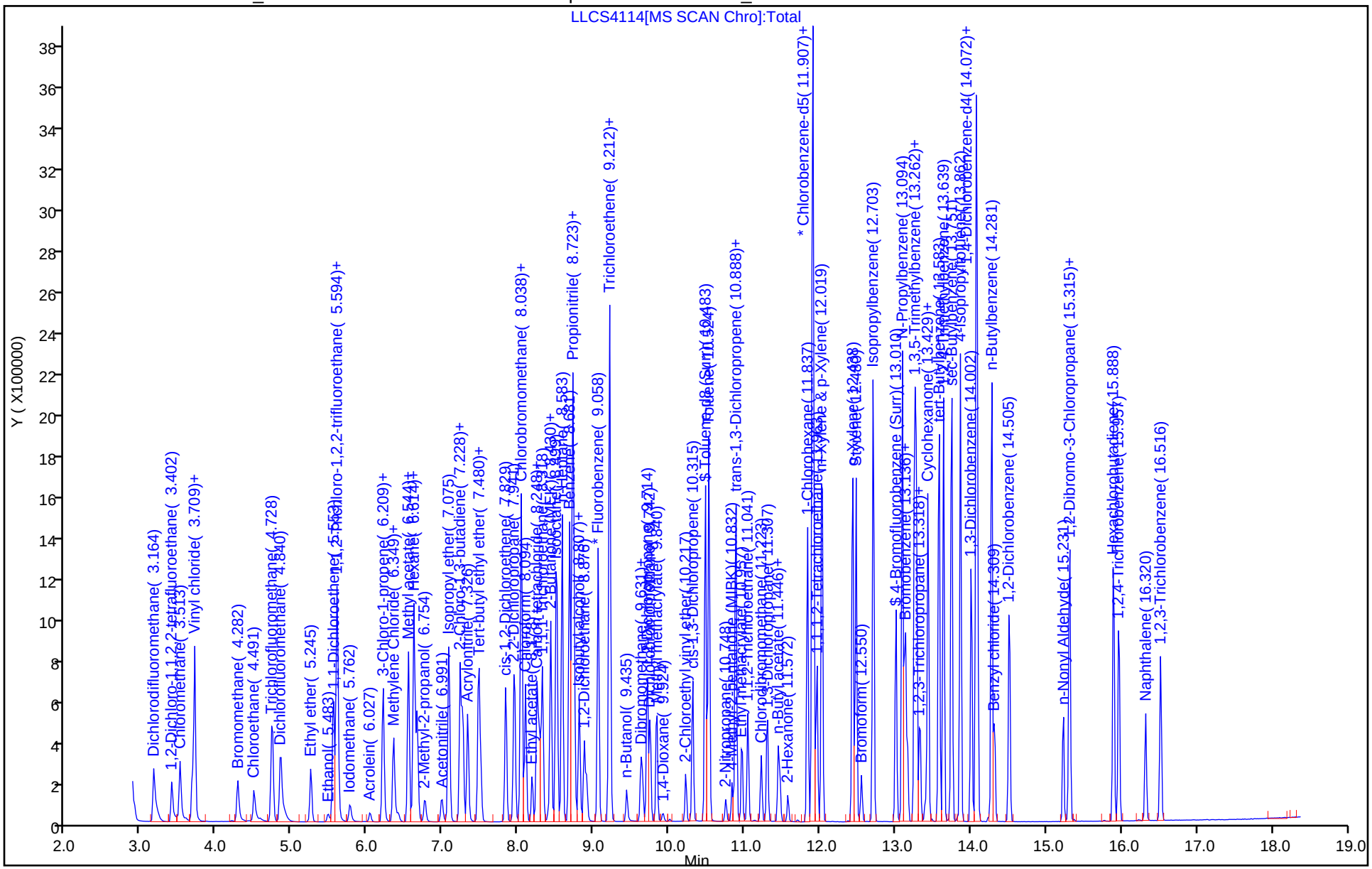
8260 NewWkMix_00319	Amount Added: 10.00	Units: uL	
8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:17 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LLCS4114.D

Injection Date:	19-Mar-2019 11:41:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LLCS4114.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 19-Mar-2019 11:41:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: LCS
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:14 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:24:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.2	100.33
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	49.9	99.87
$ 62 Toluene-d8 (Surr)	50.0	50.4	100.88
$ 86 4-Bromofluorobenzene (Surr)	50.0	51.5	102.93

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 160-420035/5

Matrix: Water Lab File ID: LLCS4115.D

Analysis Method: 8260C DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 12:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	49.5		5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	48.1		5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	49.0		5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	48.7		5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	47.6		5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	49.0		5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	49.2		5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	49.9		5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	49.7		5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	51.3		5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	43.9		10	5.0	3.3
106-93-4	1,2-Dibromoethane	49.2		5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	45.9		5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	47.8		5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	52.1		5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	49.9		5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	48.4		5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	47.0		20	5.0	1.5
95-49-8	2-Chlorotoluene	50.2		5.0	2.5	0.86
591-78-6	2-Hexanone	43.1		20	5.0	3.6
106-43-4	4-Chlorotoluene	50.5		5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	43.9		20	10	1.8
67-64-1	Acetone	46.1		20	10	3.2
71-43-2	Benzene	46.0		5.0	2.5	0.33
108-86-1	Bromobenzene	49.1		5.0	2.5	0.74
74-97-5	Bromochloromethane	47.7		5.0	2.5	0.77
75-27-4	Bromodichloromethane	48.2		5.0	2.5	0.46
75-25-2	Bromoform	43.8		5.0	2.5	2.1
74-83-9	Bromomethane	40.1		10	5.0	2.7
75-15-0	Carbon disulfide	49.3		5.0	2.5	0.74
56-23-5	Carbon tetrachloride	47.2		5.0	2.5	0.65
108-90-7	Chlorobenzene	49.2		5.0	2.5	0.50
75-00-3	Chloroethane	46.1		10	2.5	1.0
67-66-3	Chloroform	47.8		5.0	2.5	0.57
74-87-3	Chloromethane	48.2		10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	48.6		5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 160-420035/5

Matrix: Water Lab File ID: LLCS4115.D

Analysis Method: 8260C DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 12:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	49.5		5.0	5.0	2.6
124-48-1	Dibromochloromethane	50.2		5.0	2.5	0.56
74-95-3	Dibromomethane	46.5		5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	48.6		10	2.5	1.3
100-41-4	Ethylbenzene	49.1		5.0	2.5	0.44
98-82-8	Isopropylbenzene	51.9		5.0	2.5	1.9
179601-23-1	m,p-Xylenes	51.9		5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	47.9		5.0	2.5	0.79
75-09-2	Methylene Chloride	47.3		7.5	5.0	1.7
91-20-3	Naphthalene	51.6		5.0	5.0	3.0
104-51-8	n-Butylbenzene	52.0		5.0	2.5	1.2
103-65-1	N-Propylbenzene	51.7		5.0	2.5	1.4
95-47-6	o-Xylene	53.4		5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	51.8		5.0	2.5	1.3
135-98-8	sec-Butylbenzene	51.1		5.0	2.5	1.1
100-42-5	Styrene	46.9		5.0	2.5	2.0
98-06-6	tert-Butylbenzene	51.0		5.0	2.5	1.1
127-18-4	Tetrachloroethene	48.7		5.0	2.5	0.60
108-88-3	Toluene	50.6		5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	48.6		5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	51.1		5.0	2.5	2.1
79-01-6	Trichloroethene	46.7		5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	47.4		5.0	2.5	1.0
75-01-4	Vinyl chloride	49.1		5.0	2.0	1.9
1330-20-7	Xylenes (total)	105		10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		81-118
460-00-4	4-Bromofluorobenzene (Surr)	106		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	105		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LLCS4115.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 19-Mar-2019 12:06:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: LCSD
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:14 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:25:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	99	423056	50.0	48.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.402	3.402	0.000	95	106361	50.0	51.8	
3 Chloromethane	50	3.513	3.513	0.000	99	343664	50.0	48.2	
4 Vinyl chloride	62	3.681	3.681	0.000	99	374650	50.0	49.1	
122 Butadiene	39	3.709	3.709	0.000	93	340153	50.0	50.3	
5 Bromomethane	94	4.282	4.282	0.000	92	165539	50.0	40.1	
6 Chloroethane	64	4.491	4.491	0.000	98	202414	50.0	46.1	
7 Trichlorofluoromethane	101	4.742	4.742	0.000	99	500620	50.0	47.4	
123 Dichlorofluoromethane	67	4.854	4.840	0.014	97	561287	50.0	47.0	
8 Ethyl ether	74	5.245	5.245	0.000	88	121725	50.0	48.8	
11 Ethanol	45	5.483	5.469	0.014	100	48617	2000.0	1925.1	
9 1,1-Dichloroethene	96	5.552	5.552	0.000	97	256929	50.0	49.0	
10 Carbon disulfide	76	5.594	5.594	0.000	99	1003932	50.0	49.3	
12 1,1,2-Trichloro-1,2,2-trif	151	5.594	5.594	0.000	94	200644	50.0	47.8	
13 Iodomethane	142	5.762	5.762	0.000	100	139475	50.0	49.0	
14 Acrolein	56	6.041	6.027	0.014	98	36712	250.0	273.0	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	91	315781	50.0	49.1	
16 Isopropyl alcohol	45	6.223	6.223	0.000	97	68040	500.0	439.0	
17 Methylene Chloride	84	6.349	6.349	0.000	89	249282	50.0	47.3	
18 Acetone	43	6.404	6.404	0.000	100	31531	50.0	46.1	
20 Methyl acetate	74	6.544	6.544	0.000	96	38811	250.0	231.3	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	97	284206	50.0	48.6	
21 Hexane	86	6.614	6.614	0.000	91	105817	50.0	49.7	
22 Methyl tert-butyl ether	73	6.656	6.656	0.000	85	567661	50.0	47.9	
23 2-Methyl-2-propanol	59	6.768	6.754	0.014	98	119154	500.0	459.8	
24 Acetonitrile	41	6.991	6.977	0.014	99	126613	500.0	474.7	
25 Isopropyl ether	45	7.075	7.075	0.000	93	693581	50.0	48.5	
27 2-Chloro-1,3-butadiene	53	7.228	7.228	0.000	92	439285	50.0	49.8	
28 1,1-Dichloroethane	63	7.256	7.256	0.000	95	525268	50.0	47.6	
29 Acrylonitrile	53	7.326	7.326	0.000	99	379277	500.0	470.4	
30 Tert-butyl ethyl ether	59	7.480	7.466	0.014	97	666625	50.0	48.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Vinyl acetate	43	7.508	7.508	0.000	97	338218	50.0	49.1	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	81	282653	50.0	48.6	
33 2,2-Dichloropropane	77	7.955	7.941	0.014	88	517396	50.0	48.4	
35 Chlorobromomethane	128	8.038	8.038	0.000	52	80618	50.0	47.7	
34 Cyclohexane	84	8.038	8.038	0.000	87	548369	50.0	49.4	
36 Chloroform	83	8.094	8.094	0.000	93	497475	50.0	47.8	
39 Ethyl acetate	45	8.178	8.178	0.000	99	29969	100.0	88.6	
37 Carbon tetrachloride	117	8.248	8.248	0.000	98	360417	50.0	47.2	
38 Tetrahydrofuran	71	8.262	8.262	0.000	83	29365	100.0	88.5	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	200373	50.0	50.3	
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	98	484301	50.0	48.1	
43 2-Butanone (MEK)	43	8.402	8.388	0.014	99	48186	50.0	47.0	
42 1,1-Dichloropropene	75	8.429	8.429	0.000	96	475752	50.0	49.2	
125 Isooctane	57	8.513	8.499	0.014	96	1281961	50.0	49.2	
117 n-Heptane	43	8.583	8.583	0.000	88	528336	50.0	48.1	
44 Benzene	78	8.681	8.681	0.000	95	1241439	50.0	46.0	
45 Propionitrile	54	8.709	8.709	0.000	90	150236	500.0	472.5	
46 Methacrylonitrile	41	8.723	8.723	0.000	90	788840	500.0	473.3	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	99	636339	50.0	48.0	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	99	253301	50.0	48.9	
50 Isobutyl alcohol	42	8.807	8.807	0.000	93	72588	1250.0	1022.5	
49 1,2-Dichloroethane	62	8.876	8.876	0.000	99	283935	50.0	45.9	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1037784	50.0	50.0	
53 Trichloroethene	95	9.212	9.212	0.000	57	304566	50.0	46.7	
52 Methylcyclohexane	55	9.212	9.212	0.000	87	469047	50.0	48.5	
54 n-Butanol	56	9.435	9.435	0.000	90	72569	1250.0	1001.3	
55 Dibromomethane	93	9.631	9.617	0.014	96	103064	50.0	46.5	
124 Ethyl acrylate	55	9.645	9.645	0.000	99	146004	50.0	42.8	
56 1,2-Dichloropropane	63	9.714	9.714	0.000	94	255030	50.0	47.8	
57 Dichlorobromomethane	83	9.742	9.742	0.000	98	325845	50.0	48.2	
58 Methyl methacrylate	69	9.840	9.826	0.014	88	210158	100.0	87.5	
59 1,4-Dioxane	88	9.924	9.924	0.000	93	26477	1000.0	977.4	
60 2-Chloroethyl vinyl ether	63	10.217	10.217	0.000	92	89043	50.0	44.2	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	95	385188	50.0	49.5	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1043755	50.0	52.7	
63 Toluene	92	10.524	10.524	0.000	98	753080	50.0	50.6	
64 2-Nitropropane	43	10.748	10.748	0.000	98	62651	100.0	95.4	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	96	103239	50.0	43.9	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	97	319899	50.0	51.1	
65 Tetrachloroethene	164	10.888	10.888	0.000	95	238964	50.0	48.7	
69 Ethyl methacrylate	69	10.971	10.957	0.014	87	203068	50.0	43.9	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	93	132112	50.0	48.7	
70 Chlorodibromomethane	129	11.223	11.223	0.000	90	140480	50.0	50.2	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	89	304867	50.0	49.9	
119 n-Butyl acetate	43	11.446	11.446	0.000	97	180457	50.0	44.1	
72 Ethylene Dibromide	107	11.474	11.474	0.000	99	127179	50.0	49.2	
74 2-Hexanone	43	11.572	11.572	0.000	94	68947	50.0	43.1	
75 1-Chlorohexane	91	11.837	11.837	0.000	97	471253	50.0	53.4	
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	80	638587	50.0	50.0	
78 Ethylbenzene	91	11.907	11.907	0.000	98	1460059	50.0	49.1	
77 Chlorobenzene	112	11.921	11.921	0.000	89	669016	50.0	49.2	
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	93	189100	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	100	521125	50.0	51.9	
82 o-Xylene	106	12.438	12.438	0.000	98	466321	50.0	53.4	
83 Styrene	104	12.480	12.480	0.000	93	727860	50.0	46.9	
84 Bromoform	173	12.550	12.550	0.000	95	88167	50.0	43.8	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	1384182	50.0	51.9	
$ 86 4-Bromofluorobenzene (Surr	95	13.010	13.010	0.000	88	357550	50.0	53.1	
88 N-Propylbenzene	91	13.094	13.094	0.000	99	1748910	50.0	51.7	
87 Bromobenzene	156	13.136	13.136	0.000	94	249751	50.0	49.1	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	95	166661	50.0	49.0	
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	94	1113671	50.0	52.1	
90 2-Chlorotoluene	91	13.276	13.276	0.000	93	1107833	50.0	50.2	
92 1,2,3-Trichloropropane	110	13.318	13.318	0.000	83	48509	50.0	49.7	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	93	43553	50.0	49.9	
94 Cyclohexanone	55	13.401	13.401	0.000	85	36198	500.0	462.1	
95 4-Chlorotoluene	91	13.429	13.429	0.000	98	990370	50.0	50.5	
96 tert-Butylbenzene	119	13.583	13.583	0.000	91	923588	50.0	51.0	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	97	1106142	50.0	51.3	
98 sec-Butylbenzene	105	13.751	13.751	0.000	95	1541741	50.0	51.1	
99 4-Isopropyltoluene	119	13.862	13.862	0.000	96	1193581	50.0	51.8	
100 1,3-Dichlorobenzene	146	14.016	14.002	0.014	96	474611	50.0	49.2	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	71	305729	50.0	50.0	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	97	1029065	50.0	50.9	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	86	466865	50.0	48.7	
103 n-Butylbenzene	134	14.281	14.281	0.000	97	284117	50.0	52.0	
121 Benzyl chloride	126	14.323	14.323	0.000	97	56004	50.0	46.3	
104 1,2-Dichlorobenzene	146	14.519	14.519	0.000	95	394013	50.0	48.6	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	88	87490	50.0	49.0	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	79	23594	50.0	43.9	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	96	435471	50.0	49.6	
108 Hexachlorobutadiene	225	15.901	15.901	0.000	94	298040	50.0	50.2	
109 1,2,4-Trichlorobenzene	180	15.971	15.971	0.000	92	328793	50.0	50.8	
110 Naphthalene	128	16.320	16.320	0.000	98	360555	50.0	51.6	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	94	259685	50.0	49.9	

Reagents:

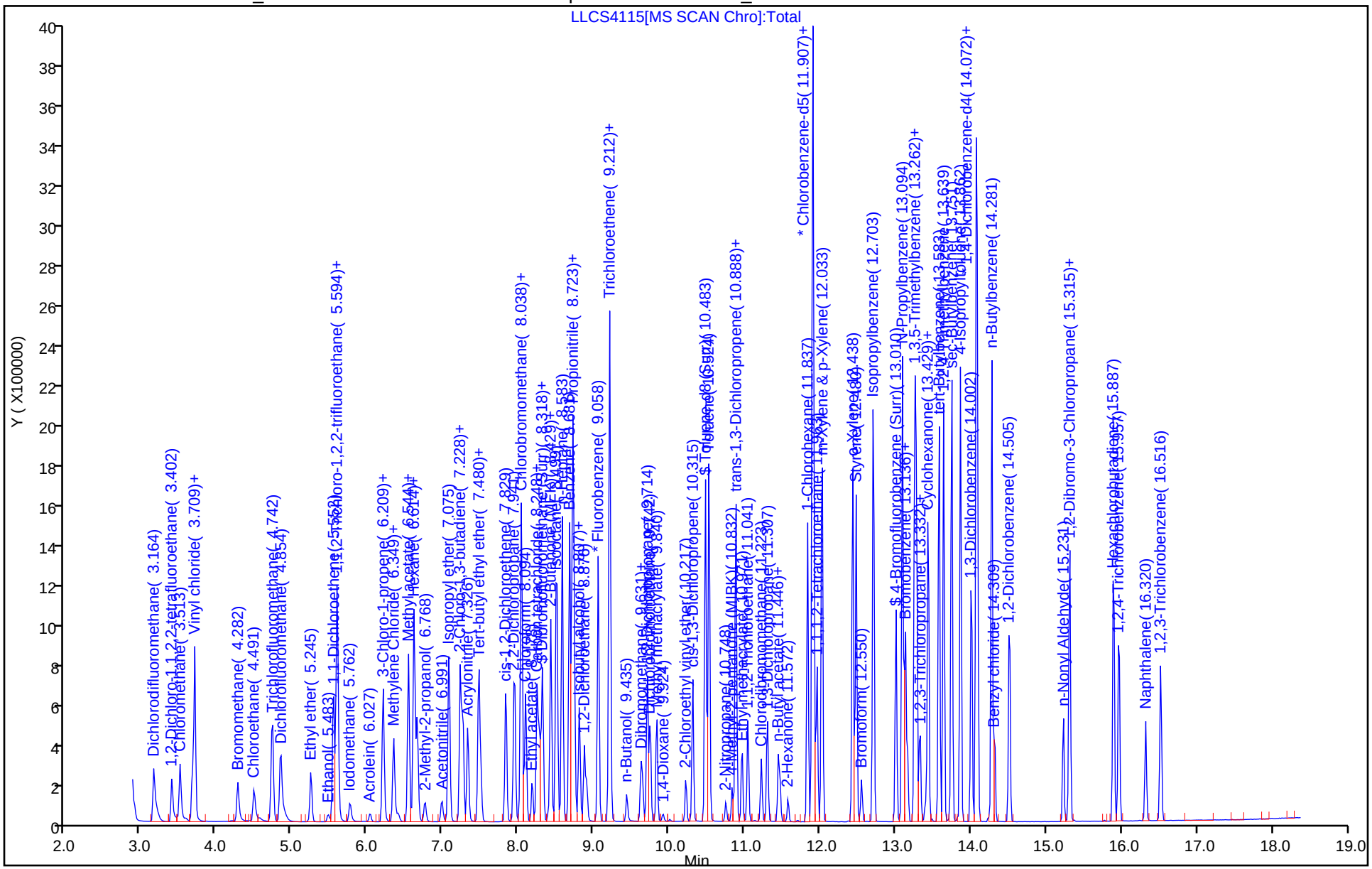
8260 NewWkMix_00319	Amount Added: 10.00	Units: uL	
8260 Surr 25_00096	Amount Added: 10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:19 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LLCS4115.D

Injection Date:	19-Mar-2019 12:06:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LLCS4115.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 19-Mar-2019 12:06:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: LCSD
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:14 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:25:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.3	100.66
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	48.9	97.73
$ 62 Toluene-d8 (Surr)	50.0	52.7	105.33
$ 86 4-Bromofluorobenzene (Surr)	50.0	53.1	106.26

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2010MS MS Lab Sample ID: 280-120962-1 MS

Matrix: Water Lab File ID: LSMP4119.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 13:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	49.2		5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	48.0		5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	48.6		5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	48.4		5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	48.2		5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	48.9		5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	48.7		5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	45.2		5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	48.3		5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	50.6		5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	41.4		10	5.0	3.3
106-93-4	1,2-Dibromoethane	49.1		5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	46.5		5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	48.2		5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	51.4		5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	49.2		5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	48.9		5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	65.6		20	5.0	1.5
95-49-8	2-Chlorotoluene	49.9		5.0	2.5	0.86
591-78-6	2-Hexanone	43.5		20	5.0	3.6
106-43-4	4-Chlorotoluene	50.7		5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	43.7		20	10	1.8
67-64-1	Acetone	50.3		20	10	3.2
71-43-2	Benzene	46.8		5.0	2.5	0.33
108-86-1	Bromobenzene	49.5		5.0	2.5	0.74
74-97-5	Bromochloromethane	48.0		5.0	2.5	0.77
75-27-4	Bromodichloromethane	48.5		5.0	2.5	0.46
75-25-2	Bromoform	43.8		5.0	2.5	2.1
74-83-9	Bromomethane	36.4		10	5.0	2.7
75-15-0	Carbon disulfide	49.1		5.0	2.5	0.74
56-23-5	Carbon tetrachloride	47.6		5.0	2.5	0.65
108-90-7	Chlorobenzene	48.5		5.0	2.5	0.50
75-00-3	Chloroethane	18.7	J1	10	2.5	1.0
67-66-3	Chloroform	48.1		5.0	2.5	0.57
74-87-3	Chloromethane	47.3		10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	50.2		5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2010MS MS Lab Sample ID: 280-120962-1 MS

Matrix: Water Lab File ID: LSMP4119.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 13:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	49.7		5.0	5.0	2.6
124-48-1	Dibromochloromethane	49.6		5.0	2.5	0.56
74-95-3	Dibromomethane	47.3		5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	48.6		10	2.5	1.3
100-41-4	Ethylbenzene	48.4		5.0	2.5	0.44
98-82-8	Isopropylbenzene	51.1		5.0	2.5	1.9
179601-23-1	m,p-Xylenes	50.8		5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	50.2		5.0	2.5	0.79
75-09-2	Methylene Chloride	48.7		7.5	5.0	1.7
91-20-3	Naphthalene	47.4		5.0	5.0	3.0
104-51-8	n-Butylbenzene	50.3		5.0	2.5	1.2
103-65-1	N-Propylbenzene	51.1		5.0	2.5	1.4
95-47-6	o-Xylene	52.8		5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	50.6		5.0	2.5	1.3
135-98-8	sec-Butylbenzene	49.9		5.0	2.5	1.1
100-42-5	Styrene	46.4		5.0	2.5	2.0
98-06-6	tert-Butylbenzene	50.2		5.0	2.5	1.1
127-18-4	Tetrachloroethene	46.8		5.0	2.5	0.60
108-88-3	Toluene	50.0		5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	49.3		5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	51.8		5.0	2.5	2.1
79-01-6	Trichloroethene	45.9		5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	36.1		5.0	2.5	1.0
75-01-4	Vinyl chloride	48.1		5.0	2.0	1.9
1330-20-7	Xylenes (total)	104		10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		81-118
460-00-4	4-Bromofluorobenzene (Surr)	109		85-114
1868-53-7	Dibromofluoromethane (Surr)	105		80-119
2037-26-5	Toluene-d8 (Surr)	104		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4119.D
Lims ID: 280-120962-A-1 MS
Client ID: 6MW2010MS
Sample Type: MS
Inject. Date: 19-Mar-2019 13:45:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-009
Misc. Info.: 280-120962-a-1 ms
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:14 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:32:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	100	430121	50.0	48.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.402	3.402	0.000	95	48649	50.0	23.3	
3 Chloromethane	50	3.514	3.513	0.001	99	342970	50.0	47.3	
4 Vinyl chloride	62	3.681	3.681	0.000	99	372647	50.0	48.1	
122 Butadiene	39	3.709	3.709	0.000	95	341327	50.0	49.6	
5 Bromomethane	94	4.282	4.282	0.000	92	152618	50.0	36.4	
6 Chloroethane	64	4.491	4.491	0.000	99	83533	50.0	18.7	
7 Trichlorofluoromethane	101	4.701	4.742	-0.041	99	387928	50.0	36.1	
123 Dichlorofluoromethane	67	4.840	4.840	0.000	97	580408	50.0	47.8	
8 Ethyl ether	74	5.259	5.245	0.014	88	130631	50.0	51.5	
11 Ethanol	45	5.539	5.469	0.070	30	59413	2000.0	2315.1	
9 1,1-Dichloroethene	96	5.539	5.552	-0.013	96	260591	50.0	48.9	
10 Carbon disulfide	76	5.581	5.594	-0.013	99	1014264	50.0	49.1	
12 1,1,2-Trichloro-1,2,2-trif	151	5.595	5.594	0.001	94	203265	50.0	47.7	
13 Iodomethane	142	5.762	5.762	0.000	99	175755	50.0	58.5	
S 26 1,2-Dichloroethene, Total	96				0			99.5	
14 Acrolein	56	6.041	6.027	0.014	99	40961	250.0	299.7	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	91	315020	50.0	48.2	
16 Isopropyl alcohol	45	6.279	6.223	0.056	97	71248	500.0	452.3	
17 Methylene Chloride	84	6.349	6.349	0.000	89	260926	50.0	48.7	
18 Acetone	43	6.419	6.404	0.015	99	34991	50.0	50.3	
20 Methyl acetate	74	6.558	6.544	0.014	96	44837	250.0	263.0	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	97	292604	50.0	49.3	
21 Hexane	86	6.614	6.614	0.000	89	108448	50.0	50.1	
22 Methyl tert-butyl ether	73	6.670	6.656	0.014	89	604473	50.0	50.2	
23 2-Methyl-2-propanol	59	6.810	6.754	0.056	98	126364	500.0	479.8	
24 Acetonitrile	41	6.991	6.977	0.014	99	136421	500.0	503.3	
25 Isopropyl ether	45	7.089	7.075	0.014	92	742515	50.0	51.1	
27 2-Chloro-1,3-butadiene	53	7.229	7.228	0.001	91	446254	50.0	49.8	
28 1,1-Dichloroethane	63	7.257	7.256	0.001	97	540388	50.0	48.2	
29 Acrylonitrile	53	7.340	7.326	0.014	100	400865	500.0	489.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.480	7.466	0.014	97	707484	50.0	50.8	
31 Vinyl acetate	43	7.508	7.508	0.000	97	379881	50.0	54.3	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	84	296858	50.0	50.2	
33 2,2-Dichloropropane	77	7.941	7.941	0.000	88	531521	50.0	48.9	
35 Chlorobromomethane	128	8.039	8.038	0.001	94	82437	50.0	48.0	
34 Cyclohexane	84	8.039	8.038	0.001	89	549824	50.0	48.8	
36 Chloroform	83	8.094	8.094	0.000	92	509257	50.0	48.1	
39 Ethyl acetate	45	8.192	8.178	0.014	98	32459	100.0	94.2	
37 Carbon tetrachloride	117	8.248	8.248	0.000	97	369328	50.0	47.6	
38 Tetrahydrofuran	71	8.276	8.262	0.014	84	32100	100.0	94.9	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	212986	50.0	52.6	
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	98	490780	50.0	48.0	
43 2-Butanone (MEK)	43	8.402	8.388	0.014	98	68365	50.0	65.6	
42 1,1-Dichloropropene	75	8.430	8.429	0.001	96	478819	50.0	48.7	
125 Isooctane	57	8.500	8.499	0.001	96	1302937	50.0	49.3	
117 n-Heptane	43	8.583	8.583	0.000	89	545194	50.0	48.8	
44 Benzene	78	8.681	8.681	0.000	95	1281712	50.0	46.8	
45 Propionitrile	54	8.709	8.709	0.000	89	159052	500.0	492.3	
46 Methacrylonitrile	41	8.723	8.723	0.000	91	820948	500.0	484.7	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	97	670014	50.0	49.8	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	99	265050	50.0	50.3	
50 Isobutyl alcohol	42	8.821	8.807	0.014	92	72474	1250.0	1005.8	
49 1,2-Dichloroethane	62	8.877	8.876	0.001	99	291916	50.0	46.5	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1054584	50.0	50.0	
118 1,4-Difluorobenzene	114		9.130					ND	
53 Trichloroethene	95	9.212	9.212	0.000	57	304032	50.0	45.9	
52 Methylcyclohexane	55	9.212	9.212	0.000	86	470561	50.0	47.8	
54 n-Butanol	56	9.449	9.435	0.014	90	68665	1250.0	938.3	
55 Dibromomethane	93	9.631	9.617	0.014	96	106475	50.0	47.3	
124 Ethyl acrylate	55	9.645	9.645	0.000	99	153593	50.0	44.2	
56 1,2-Dichloropropane	63	9.715	9.714	0.001	94	261376	50.0	48.2	
57 Dichlorobromomethane	83	9.743	9.742	0.000	98	333470	50.0	48.5	
58 Methyl methacrylate	69	9.840	9.826	0.014	88	220668	100.0	90.3	
59 1,4-Dioxane	88	9.924	9.924	0.000	94	28303	1000.0	1028.2	
60 2-Chloroethyl vinyl ether	63		10.217				ND	ND	
128 2-Pentanone	43		10.253					ND	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	95	392560	50.0	49.7	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1071991	50.0	52.2	
63 Toluene	92	10.525	10.524	0.001	98	771050	50.0	50.0	
64 2-Nitropropane	43	10.748	10.748	0.000	99	66045	100.0	96.9	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	95	106641	50.0	43.7	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	93	335871	50.0	51.8	
65 Tetrachloroethene	164	10.888	10.888	0.000	95	238012	50.0	46.8	
69 Ethyl methacrylate	69	10.972	10.957	0.015	87	204356	50.0	42.8	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	92	135986	50.0	48.4	
70 Chlorodibromomethane	129	11.223	11.223	0.000	91	143915	50.0	49.6	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	90	311423	50.0	49.2	
119 n-Butyl acetate	43	11.446	11.446	0.000	98	188520	50.0	44.4	
72 Ethylene Dibromide	107	11.474	11.474	0.000	98	131395	50.0	49.1	
74 2-Hexanone	43	11.572	11.572	0.000	96	72195	50.0	43.5	
S 73 1,3-Dichloropropene, Total	75				0			101.5	
75 1-Chlorohexane	91	11.837	11.837	0.000	97	472302	50.0	51.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	93	661725	50.0	50.0	
78 Ethylbenzene	91	11.907	11.907	0.000	98	1492718	50.0	48.4	
77 Chlorobenzene	112	11.921	11.921	0.000	95	683281	50.0	48.5	
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	93	194938	50.0	49.2	
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	100	528710	50.0	50.8	
82 o-Xylene	106	12.438	12.438	0.000	98	477723	50.0	52.8	
83 Styrene	104	12.480	12.480	0.000	93	747070	50.0	46.4	
84 Bromoform	173	12.550	12.550	0.000	95	90329	50.0	43.8	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	1399625	50.0	51.1	
$ 86 4-Bromofluorobenzene (Surr	95	13.011	13.010	0.001	87	376434	50.0	54.5	
88 N-Propylbenzene	91	13.094	13.094	0.000	98	1772516	50.0	51.1	
87 Bromobenzene	156	13.136	13.136	0.000	94	258287	50.0	49.5	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	95	169818	50.0	48.6	
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	93	1125818	50.0	51.4	
90 2-Chlorotoluene	91	13.276	13.276	0.000	94	1129928	50.0	49.9	
92 1,2,3-Trichloropropane	110	13.318	13.318	0.000	85	48395	50.0	48.3	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	82	45264	50.0	50.6	
94 Cyclohexanone	55	13.402	13.401	0.001	88	36512	500.0	454.9	
95 4-Chlorotoluene	91	13.430	13.429	0.001	98	1018798	50.0	50.7	
81 Pentachloroethane	167		13.557					ND	
96 tert-Butylbenzene	119	13.583	13.583	0.000	91	931851	50.0	50.2	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	97	1119736	50.0	50.6	
98 sec-Butylbenzene	105	13.751	13.751	0.000	95	1545827	50.0	49.9	
99 4-Isopropyltoluene	119	13.863	13.862	0.001	96	1195406	50.0	50.6	
100 1,3-Dichlorobenzene	146	14.016	14.002	0.014	95	484346	50.0	48.9	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	72	313622	50.0	50.0	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	97	1032920	50.0	49.8	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	92	470983	50.0	47.9	
103 n-Butylbenzene	134	14.282	14.281	0.001	96	282012	50.0	50.3	
121 Benzyl chloride	126	14.323	14.323	0.000	97	57237	50.0	46.1	
104 1,2-Dichlorobenzene	146	14.519	14.519	0.000	95	396932	50.0	47.7	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	89	91944	50.0	50.0	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	67	22694	50.0	41.4	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	96	429831	50.0	47.7	
108 Hexachlorobutadiene	225	15.902	15.901	0.001	94	270460	50.0	44.4	
109 1,2,4-Trichlorobenzene	180	15.971	15.971	0.000	93	315478	50.0	47.5	
110 Naphthalene	128	16.321	16.320	0.001	98	339480	50.0	47.4	
S 112 Xylenes, Total	106				0			103.7	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	94	240960	50.0	45.2	
126 C6-C12	1		0.000					ND	
S 113 Trihalomethanes, Total	1				0			190.1	
127 2-Methylpentane	1		0.000					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

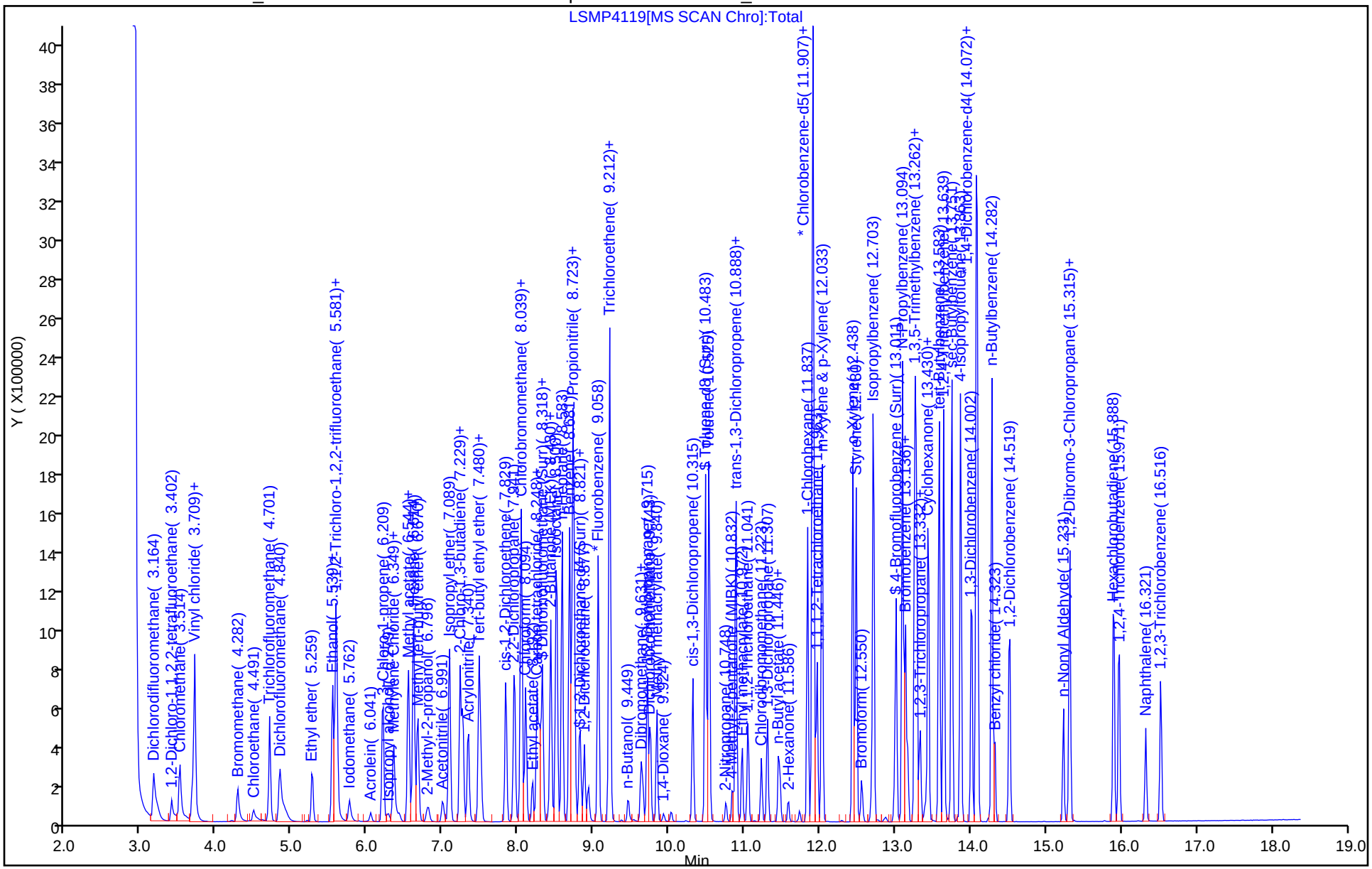
8260 NewWkMix_00319	Amount Added:	10.00	Units: uL	
8260 Surr 25_00096	Amount Added:	10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:28 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4119.D

Injection Date:	19-Mar-2019 13:45:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	280-120962-A-1 MS			Worklist Smp#:	9
Client ID:	6MW2010MS				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4119.D
Lims ID: 280-120962-A-1 MS
Client ID: 6MW2010MS
Sample Type: MS
Inject. Date: 19-Mar-2019 13:45:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-009
Misc. Info.: 280-120962-a-1 ms
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:14 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:32:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	52.6	105.29
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.3	100.64
$ 62 Toluene-d8 (Surr)	50.0	52.2	104.39
$ 86 4-Bromofluorobenzene (Surr)	50.0	54.5	109.06

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2010MSD MSD Lab Sample ID: 280-120962-1 MSD

Matrix: Water Lab File ID: LSMP4120.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	49.9		5.0	2.5	0.62
71-55-6	1,1,1-Trichloroethane	48.2		5.0	2.5	0.58
79-34-5	1,1,2,2-Tetrachloroethane	47.1		5.0	2.5	2.0
79-00-5	1,1,2-Trichloroethane	48.3		5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	48.2		5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	48.9		5.0	2.5	0.71
563-58-6	1,1-Dichloropropene	48.7		5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	46.4		5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	47.4		5.0	2.5	1.8
95-63-6	1,2,4-Trimethylbenzene	51.6		5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	40.8		10	5.0	3.3
106-93-4	1,2-Dibromoethane	49.2		5.0	2.5	0.58
107-06-2	1,2-Dichloroethane	45.7		5.0	2.5	0.60
78-87-5	1,2-Dichloropropane	48.4		5.0	2.5	0.52
108-67-8	1,3,5-Trimethylbenzene	52.6		5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	49.1		5.0	2.5	0.56
594-20-7	2,2-Dichloropropane	49.3		5.0	2.5	0.72
78-93-3	2-Butanone (MEK)	62.7		20	5.0	1.5
95-49-8	2-Chlorotoluene	50.7		5.0	2.5	0.86
591-78-6	2-Hexanone	41.4		20	5.0	3.6
106-43-4	4-Chlorotoluene	51.8		5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	42.8		20	10	1.8
67-64-1	Acetone	47.9		20	10	3.2
71-43-2	Benzene	46.5		5.0	2.5	0.33
108-86-1	Bromobenzene	50.0		5.0	2.5	0.74
74-97-5	Bromochloromethane	47.3		5.0	2.5	0.77
75-27-4	Bromodichloromethane	48.2		5.0	2.5	0.46
75-25-2	Bromoform	43.0		5.0	2.5	2.1
74-83-9	Bromomethane	37.4		10	5.0	2.7
75-15-0	Carbon disulfide	49.1		5.0	2.5	0.74
56-23-5	Carbon tetrachloride	48.3		5.0	2.5	0.65
108-90-7	Chlorobenzene	49.5		5.0	2.5	0.50
75-00-3	Chloroethane	19.1	J1	10	2.5	1.0
67-66-3	Chloroform	47.2		5.0	2.5	0.57
74-87-3	Chloromethane	48.6		10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	49.9		5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Client Sample ID: 6MW2010MSD MSD Lab Sample ID: 280-120962-1 MSD

Matrix: Water Lab File ID: LSMP4120.D

Analysis Method: 8260C DOD Date Collected: 03/06/2019 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/19/2019 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 420035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	49.4		5.0	5.0	2.6
124-48-1	Dibromochloromethane	50.0		5.0	2.5	0.56
74-95-3	Dibromomethane	46.1		5.0	2.5	0.72
75-71-8	Dichlorodifluoromethane	48.6		10	2.5	1.3
100-41-4	Ethylbenzene	49.8		5.0	2.5	0.44
98-82-8	Isopropylbenzene	52.6		5.0	2.5	1.9
179601-23-1	m,p-Xylenes	51.7		5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	48.7		5.0	2.5	0.79
75-09-2	Methylene Chloride	48.7		7.5	5.0	1.7
91-20-3	Naphthalene	47.7		5.0	5.0	3.0
104-51-8	n-Butylbenzene	51.4		5.0	2.5	1.2
103-65-1	N-Propylbenzene	52.3		5.0	2.5	1.4
95-47-6	o-Xylene	54.4		5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	51.5		5.0	2.5	1.3
135-98-8	sec-Butylbenzene	51.0		5.0	2.5	1.1
100-42-5	Styrene	47.2		5.0	2.5	2.0
98-06-6	tert-Butylbenzene	51.2		5.0	2.5	1.1
127-18-4	Tetrachloroethene	48.3		5.0	2.5	0.60
108-88-3	Toluene	51.0		5.0	5.0	3.6
156-60-5	trans-1,2-Dichloroethene	49.3		5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	51.1		5.0	2.5	2.1
79-01-6	Trichloroethene	46.3		5.0	2.5	0.58
75-69-4	Trichlorofluoromethane	44.8	J1	5.0	2.5	1.0
75-01-4	Vinyl chloride	49.3		5.0	2.0	1.9
1330-20-7	Xylenes (total)	106		10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		81-118
460-00-4	4-Bromofluorobenzene (Surr)	109		85-114
1868-53-7	Dibromofluoromethane (Surr)	104		80-119
2037-26-5	Toluene-d8 (Surr)	105		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4120.D
Lims ID: 280-120962-A-1 MSD
Client ID: 6MW2010MSD
Sample Type: MSD
Inject. Date: 19-Mar-2019 14:09:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-010
Misc. Info.: 280-120962-a-1 msd
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:14 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:33:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.164	0.000	99	439700	50.0	48.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.402	3.402	0.000	96	53182	50.0	24.9	
3 Chloromethane	50	3.513	3.513	0.000	100	359927	50.0	48.6	
4 Vinyl chloride	62	3.681	3.681	0.000	98	391333	50.0	49.3	
122 Butadiene	39	3.709	3.709	0.000	94	351763	50.0	50.0	
5 Bromomethane	94	4.282	4.282	0.000	92	160572	50.0	37.4	
6 Chloroethane	64	4.491	4.491	0.000	99	87191	50.0	19.1	
7 Trichlorofluoromethane	101	4.701	4.742	-0.041	99	491894	50.0	44.8	
123 Dichlorofluoromethane	67	4.840	4.840	0.000	97	593834	50.0	47.8	
8 Ethyl ether	74	5.259	5.245	0.014	88	130476	50.0	50.3	
11 Ethanol	45	5.539	5.469	0.069	29	56584	2000.0	2155.1	
9 1,1-Dichloroethene	96	5.539	5.552	-0.014	96	266709	50.0	48.9	
10 Carbon disulfide	76	5.580	5.594	-0.014	99	1039065	50.0	49.1	
12 1,1,2-Trichloro-1,2,2-trif	151	5.594	5.594	0.000	94	207477	50.0	47.5	
13 Iodomethane	142	5.762	5.762	0.000	99	196662	50.0	63.1	
S 26 1,2-Dichloroethene, Total	96				0			99.2	
14 Acrolein	56	6.041	6.027	0.014	100	41327	250.0	295.6	
15 3-Chloro-1-propene	39	6.209	6.209	0.000	91	322877	50.0	48.3	
16 Isopropyl alcohol	45	6.265	6.223	0.042	97	70114	500.0	435.1	
17 Methylene Chloride	84	6.349	6.349	0.000	88	267069	50.0	48.7	
18 Acetone	43	6.418	6.404	0.014	100	34066	50.0	47.9	
20 Methyl acetate	74	6.558	6.544	0.014	96	44304	250.0	254.0	
19 trans-1,2-Dichloroethene	96	6.544	6.544	0.000	98	299541	50.0	49.3	
21 Hexane	86	6.614	6.614	0.000	89	110791	50.0	50.0	
22 Methyl tert-butyl ether	73	6.670	6.656	0.014	88	599994	50.0	48.7	
23 2-Methyl-2-propanol	59	6.795	6.754	0.041	98	121220	500.0	449.9	
24 Acetonitrile	41	6.991	6.977	0.014	99	133615	500.0	481.9	
25 Isopropyl ether	45	7.089	7.075	0.014	92	761805	50.0	51.2	
27 2-Chloro-1,3-butadiene	53	7.228	7.228	0.000	92	452973	50.0	49.4	
28 1,1-Dichloroethane	63	7.256	7.256	0.000	95	553376	50.0	48.2	
29 Acrylonitrile	53	7.340	7.326	0.014	100	386807	500.0	461.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.480	7.466	0.014	97	711695	50.0	50.0	
31 Vinyl acetate	43	7.508	7.508	0.000	97	376720	50.0	52.7	
32 cis-1,2-Dichloroethene	96	7.829	7.829	0.000	81	301756	50.0	49.9	
33 2,2-Dichloropropane	77	7.941	7.941	0.000	88	548180	50.0	49.3	
35 Chlorobromomethane	128	8.038	8.038	0.000	94	83118	50.0	47.3	
34 Cyclohexane	84	8.038	8.038	0.000	90	565439	50.0	49.0	
36 Chloroform	83	8.094	8.094	0.000	92	510819	50.0	47.2	
39 Ethyl acetate	45	8.192	8.178	0.014	99	31665	100.0	90.0	
37 Carbon tetrachloride	117	8.248	8.248	0.000	96	382960	50.0	48.3	
38 Tetrahydrofuran	71	8.276	8.262	0.014	85	31412	100.0	90.9	
$ 41 Dibromofluoromethane (Surr	113	8.290	8.276	0.014	93	215048	50.0	52.0	
40 1,1,1-Trichloroethane	97	8.318	8.318	0.000	98	503828	50.0	48.2	
43 2-Butanone (MEK)	43	8.402	8.388	0.014	97	66881	50.0	62.7	
42 1,1-Dichloropropene	75	8.430	8.429	0.001	96	490041	50.0	48.7	
125 Isooctane	57	8.499	8.499	0.000	96	1343112	50.0	49.6	
117 n-Heptane	43	8.583	8.583	0.000	88	557773	50.0	48.8	
44 Benzene	78	8.681	8.681	0.000	95	1302006	50.0	46.5	
45 Propionitrile	54	8.709	8.709	0.000	89	154143	500.0	466.3	
46 Methacrylonitrile	41	8.723	8.723	0.000	91	801308	500.0	462.5	
48 Tert-amyl methyl ether	73	8.737	8.737	0.000	97	669052	50.0	48.6	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.807	8.807	0.000	98	263851	50.0	49.0	
50 Isobutyl alcohol	42	8.821	8.807	0.014	92	67718	1250.0	924.4	
49 1,2-Dichloroethane	62	8.876	8.876	0.000	98	293465	50.0	45.7	
* 51 Fluorobenzene	96	9.058	9.058	0.000	98	1078915	50.0	50.0	
118 1,4-Difluorobenzene	114		9.130					ND	
53 Trichloroethene	95	9.212	9.212	0.000	57	313445	50.0	46.3	
52 Methylcyclohexane	55	9.212	9.212	0.000	87	485661	50.0	48.3	
54 n-Butanol	56	9.449	9.435	0.014	91	65986	1250.0	886.7	
55 Dibromomethane	93	9.631	9.617	0.014	96	106320	50.0	46.1	
124 Ethyl acrylate	55	9.645	9.645	0.000	99	152886	50.0	43.1	
56 1,2-Dichloropropane	63	9.714	9.714	0.000	94	268830	50.0	48.4	
57 Dichlorobromomethane	83	9.742	9.742	0.000	98	338984	50.0	48.2	
58 Methyl methacrylate	69	9.840	9.826	0.014	89	215686	100.0	86.5	
59 1,4-Dioxane	88	9.924	9.924	0.000	94	26839	1000.0	953.0	
60 2-Chloroethyl vinyl ether	63		10.217				ND	ND	
128 2-Pentanone	43		10.253					ND	
61 cis-1,3-Dichloropropene	75	10.315	10.315	0.000	95	399732	50.0	49.4	
$ 62 Toluene-d8 (Surr)	98	10.483	10.483	0.000	94	1088498	50.0	52.5	
63 Toluene	92	10.524	10.524	0.000	98	794791	50.0	51.0	
64 2-Nitropropane	43	10.748	10.748	0.000	99	64224	100.0	93.7	
66 4-Methyl-2-pentanone (MIBK	43	10.832	10.832	0.000	96	105365	50.0	42.8	
67 trans-1,3-Dichloropropene	75	10.888	10.888	0.000	94	334565	50.0	51.1	
65 Tetrachloroethene	164	10.888	10.888	0.000	94	248130	50.0	48.3	
69 Ethyl methacrylate	69	10.971	10.957	0.014	87	206459	50.0	42.8	
68 1,1,2-Trichloroethane	83	11.041	11.041	0.000	92	137278	50.0	48.3	
70 Chlorodibromomethane	129	11.223	11.223	0.000	90	146382	50.0	50.0	
71 1,3-Dichloropropane	76	11.307	11.307	0.000	89	314268	50.0	49.1	
119 n-Butyl acetate	43	11.446	11.446	0.000	97	186557	50.0	43.6	
72 Ethylene Dibromide	107	11.474	11.474	0.000	98	132990	50.0	49.2	
74 2-Hexanone	43	11.586	11.572	0.014	94	69203	50.0	41.4	
S 73 1,3-Dichloropropene, Total	75				0			100.5	
75 1-Chlorohexane	91	11.837	11.837	0.000	97	491559	50.0	53.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.907	11.893	0.014	91	668595	50.0	50.0	
78 Ethylbenzene	91	11.907	11.907	0.000	99	1550106	50.0	49.8	
77 Chlorobenzene	112	11.921	11.921	0.000	95	705057	50.0	49.5	
79 1,1,1,2-Tetrachloroethane	131	11.963	11.963	0.000	94	199497	50.0	49.9	
80 m-Xylene & p-Xylene	106	12.033	12.033	0.000	100	542877	50.0	51.7	
82 o-Xylene	106	12.438	12.438	0.000	98	497298	50.0	54.4	
83 Styrene	104	12.480	12.480	0.000	93	768904	50.0	47.2	
84 Bromoform	173	12.550	12.550	0.000	95	89374	50.0	43.0	
85 Isopropylbenzene	105	12.703	12.703	0.000	97	1452904	50.0	52.6	
$ 86 4-Bromofluorobenzene (Surr	95	13.010	13.010	0.000	87	381592	50.0	54.7	
88 N-Propylbenzene	91	13.094	13.094	0.000	98	1830796	50.0	52.3	
87 Bromobenzene	156	13.136	13.136	0.000	93	263171	50.0	50.0	
89 1,1,2,2-Tetrachloroethane	83	13.164	13.164	0.000	95	165906	50.0	47.1	
91 1,3,5-Trimethylbenzene	105	13.262	13.262	0.000	93	1164333	50.0	52.6	
90 2-Chlorotoluene	91	13.276	13.276	0.000	94	1158632	50.0	50.7	
92 1,2,3-Trichloropropane	110	13.332	13.318	0.014	82	47967	50.0	47.4	
93 trans-1,4-Dichloro-2-buten	53	13.332	13.332	0.000	80	44810	50.0	49.6	
94 Cyclohexanone	55	13.401	13.401	0.000	87	35133	500.0	435.0	
95 4-Chlorotoluene	91	13.429	13.429	0.000	98	1050451	50.0	51.8	
81 Pentachloroethane	167		13.557					ND	
96 tert-Butylbenzene	119	13.583	13.583	0.000	91	960402	50.0	51.2	
97 1,2,4-Trimethylbenzene	105	13.639	13.639	0.000	97	1152144	50.0	51.6	
98 sec-Butylbenzene	105	13.751	13.751	0.000	95	1595255	50.0	51.0	
99 4-Isopropyltoluene	119	13.862	13.862	0.000	96	1228289	50.0	51.5	
100 1,3-Dichlorobenzene	146	14.016	14.002	0.014	95	489489	50.0	49.0	
* 101 1,4-Dichlorobenzene-d4	152	14.072	14.072	0.000	73	316640	50.0	50.0	
120 1,2,3-Trimethylbenzene	105	14.072	14.072	0.000	97	1052953	50.0	50.3	
102 1,4-Dichlorobenzene	146	14.086	14.086	0.000	91	479512	50.0	48.3	
103 n-Butylbenzene	134	14.281	14.281	0.000	97	290506	50.0	51.4	
121 Benzyl chloride	126	14.323	14.323	0.000	97	56127	50.0	44.9	
104 1,2-Dichlorobenzene	146	14.519	14.519	0.000	94	402164	50.0	47.9	
106 n-Nonyl Aldehyde	57	15.231	15.231	0.000	89	96611	50.0	51.7	
105 1,2-Dibromo-3-Chloropropan	157	15.301	15.301	0.000	78	22547	50.0	40.8	
107 1,3,5-Trichlorobenzene	180	15.315	15.315	0.000	96	441299	50.0	48.5	
108 Hexachlorobutadiene	225	15.901	15.901	0.000	94	284231	50.0	46.3	
109 1,2,4-Trichlorobenzene	180	15.971	15.971	0.000	93	323456	50.0	48.2	
110 Naphthalene	128	16.320	16.320	0.000	98	345202	50.0	47.7	
S 112 Xylenes, Total	106				0			106.1	
111 1,2,3-Trichlorobenzene	180	16.516	16.516	0.000	94	249744	50.0	46.4	
126 C6-C12	1		0.000					ND	
S 113 Trihalomethanes, Total	1				0			188.3	
127 2-Methylpentane	1		0.000					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

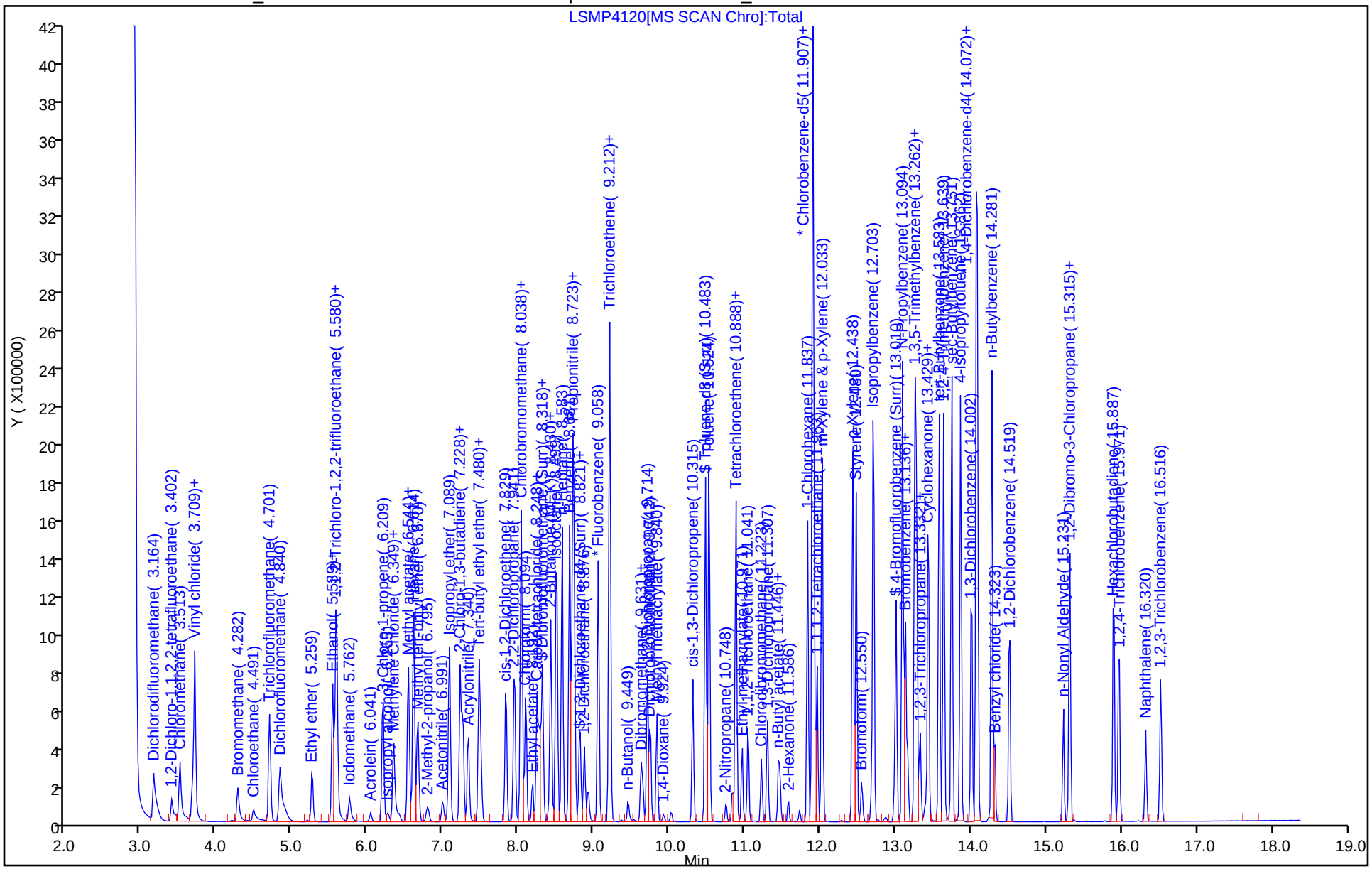
8260 NewWkMix_00319	Amount Added:	10.00	Units: uL	
8260 Surr 25_00096	Amount Added:	10.00	Units: uL	Run Reagent
I.S. Working_00174	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 20-Mar-2019 15:42:30 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4120.D

Injection Date:	19-Mar-2019 14:09:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	280-120962-A-1 MSD			Worklist Smp#:	10
Client ID:	6MW2010MSD				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\LSMP4120.D
Lims ID: 280-120962-A-1 MSD
Client ID: 6MW2010MSD
Sample Type: MSD
Inject. Date: 19-Mar-2019 14:09:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0014953-010
Misc. Info.: 280-120962-a-1 msd
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190319-14953.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Mar-2019 15:42:14 Calib Date: 18-Mar-2019 17:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190318-14945.b\LICL4090.D

Column 1 : Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: aguk Date: 20-Mar-2019 15:33:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	52.0	103.91
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	49.0	97.92
$ 62 Toluene-d8 (Surr)	50.0	52.5	104.91
$ 86 4-Bromofluorobenzene (Surr)	50.0	54.7	109.50

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Instrument ID: VMSL Start Date: 03/18/2019 10:06

Analysis Batch Number: 419780 End Date: 03/18/2019 18:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-419780/2		03/18/2019 10:06	1	LBFB4076.D	RTX-VMS40 0.18(mm)
IC 160-419780/3		03/18/2019 10:33	1	LICL4077.D	RTX-VMS40 0.18(mm)
IC 160-419780/4		03/18/2019 10:58	1	LICL4078.D	RTX-VMS40 0.18(mm)
IC 160-419780/6		03/18/2019 11:47	1	LICL4080.D	RTX-VMS40 0.18(mm)
IC 160-419780/7		03/18/2019 12:12	1	LICL4081.D	RTX-VMS40 0.18(mm)
ICIS 160-419780/8		03/18/2019 12:36	1	LICL4082.D	RTX-VMS40 0.18(mm)
IC 160-419780/9		03/18/2019 13:01	1	LICL4083.D	RTX-VMS40 0.18(mm)
IC 160-419780/10		03/18/2019 13:26	1	LICL4084.D	RTX-VMS40 0.18(mm)
IC 160-419780/16		03/18/2019 17:13	1	LICL4090.D	RTX-VMS40 0.18(mm)
ICV 160-419780/17		03/18/2019 18:07	1	LICV4091.D	RTX-VMS40 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 280-120962-1

SDG No.:

Instrument ID: VMSL Start Date: 03/19/2019 10:49

Analysis Batch Number: 420035 End Date: 03/19/2019 18:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-420035/2		03/19/2019 10:49	1	LBFB4112.D	RTX-VMS40 0.18(mm)
CCV 160-420035/3		03/19/2019 11:17	1	LCCV4113.D	RTX-VMS40 0.18(mm)
LCS 160-420035/4		03/19/2019 11:41	1	LLCS4114.D	RTX-VMS40 0.18(mm)
LCSD 160-420035/5		03/19/2019 12:06	1	LLCS4115.D	RTX-VMS40 0.18(mm)
ZZZZZ		03/19/2019 12:31	1		RTX-VMS40 0.18(mm)
MB 160-420035/7		03/19/2019 12:55	1	LBLK4117.D	RTX-VMS40 0.18(mm)
280-120962-1		03/19/2019 13:20	1	LSMP4118.D	RTX-VMS40 0.18(mm)
280-120962-1 MS		03/19/2019 13:45	1	LSMP4119.D	RTX-VMS40 0.18(mm)
280-120962-1 MSD		03/19/2019 14:09	1	LSMP4120.D	RTX-VMS40 0.18(mm)
280-120962-2		03/19/2019 14:59	1	LSMP4122.D	RTX-VMS40 0.18(mm)
280-120962-3		03/19/2019 15:24	1	LSMP4123.D	RTX-VMS40 0.18(mm)
280-120962-4		03/19/2019 15:48	1	LSMP4124.D	RTX-VMS40 0.18(mm)
280-120962-5		03/19/2019 16:13	1	LSMP4125.D	RTX-VMS40 0.18(mm)
280-120962-6		03/19/2019 16:38	1	LSMP4126.D	RTX-VMS40 0.18(mm)
280-120962-7		03/19/2019 17:02	1	LSMP4127.D	RTX-VMS40 0.18(mm)
280-120962-8		03/19/2019 17:27	1	LSMP4128.D	RTX-VMS40 0.18(mm)
280-120962-9		03/19/2019 17:52	1	LSMP4129.D	RTX-VMS40 0.18(mm)
CCVC 160-420035/21		03/19/2019 18:41	1	LCCV4131.D	RTX-VMS40 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Loui Job No.: 280-120962-1

SDG No.:

Batch Number: 419780 Batch Start Date: 03/18/19 10:06 Batch Analyst: Agu, Kelli K

Batch Method: 8260C DOD Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 NewWkMix 00319	8260 Surr 25 00096	8260_Surr 00078	8260NewHiWrk 00289
BFB 160-419780/2		8260C DOD		2 uL	2 uL				
IC 160-419780/3		8260C DOD		5 mL	5 mL	0.2 uL	0.2 uL		
IC 160-419780/4		8260C DOD		5 mL	5 mL	0.5 uL	0.5 uL		
IC 160-419780/6		8260C DOD		5 mL	5 mL	2 uL	2 uL		
IC 160-419780/7		8260C DOD		5 mL	5 mL	4 uL	4 uL		
ICIS 160-419780/8		8260C DOD		5 mL	5 mL	10 uL	10 uL		
IC 160-419780/9		8260C DOD		5 mL	5 mL		20 uL		4 uL
IC 160-419780/10		8260C DOD		5 mL	5 mL			0.4 uL	8 uL
IC 160-419780/16		8260C DOD		5 mL	5 mL	1 uL	1 uL		
ICV 160-419780/17		8260C DOD		5 mL	5 mL		10 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260NewICVMix 00306	BFB 00093	I.S. Working 00174			
BFB 160-419780/2		8260C DOD			2 uL				
IC 160-419780/3		8260C DOD				10 uL			
IC 160-419780/4		8260C DOD				10 uL			
IC 160-419780/6		8260C DOD				10 uL			
IC 160-419780/7		8260C DOD				10 uL			
ICIS 160-419780/8		8260C DOD				10 uL			
IC 160-419780/9		8260C DOD				10 uL			
IC 160-419780/10		8260C DOD				10 uL			
IC 160-419780/16		8260C DOD				10 uL			
ICV 160-419780/17		8260C DOD		10 uL		10 uL			

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Loui Job No.: 280-120962-1

SDG No.:

Batch Number: 419780 Batch Start Date: 03/18/19 10:06 Batch Analyst: Agu, Kelli K

Batch Method: 8260C DOD Batch End Date:

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Loui Job No.: 280-120962-1

SDG No.:

Batch Number: 420035 Batch Start Date: 03/19/19 10:49 Batch Analyst: Agu, Kelli K

Batch Method: 8260C DOD Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 NewWkMix 00319	8260 Surr 25 00096	BFB 00093
BFB 160-420035/2		8260C DOD		2 uL					2 uL
CCV 160-420035/3		8260C DOD		5 mL	5 mL		10 uL	10 uL	
LCS 160-420035/4		8260C DOD		5 mL	5 mL		10 uL	10 uL	
LCSD 160-420035/5		8260C DOD		5 mL	5 mL		10 uL	10 uL	
MB 160-420035/7		8260C DOD		5 mL	5 mL			10 uL	
280-120962-B-1	6MW2010	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-120962-A-1 MS	6MW2010MS	8260C DOD	T	5 mL	5 mL	<2 SU	10 uL	10 uL	
280-120962-A-1 MSD	6MW2010MSD	8260C DOD	T	5 mL	5 mL	<2 SU	10 uL	10 uL	
280-120962-B-2	6MW2010D	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-120962-B-3	6MW2210	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-120962-B-4	6MW2310	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-120962-B-5	6MW2410	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-120962-B-6	6MW2510	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-120962-B-7	6MW2610	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-120962-A-8	TB11	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-120962-A-9	FB07	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
CCVC 160-420035/21		8260C DOD		5 mL	5 mL		10 uL	10 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	I.S. Working 00174					
BFB 160-420035/2		8260C DOD							
CCV 160-420035/3		8260C DOD		10 uL					
LCS 160-420035/4		8260C DOD		10 uL					
LCSD 160-420035/5		8260C DOD		10 uL					
MB 160-420035/7		8260C DOD		10 uL					
280-120962-B-1	6MW2010	8260C DOD	T	10 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Loui Job No.: 280-120962-1

SDG No.:

Batch Number: 420035 Batch Start Date: 03/19/19 10:49 Batch Analyst: Agu, Kelli K

Batch Method: 8260C DOD Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	I.S. Working 00174					
280-120962-A-1 MS	6MW2010MS	8260C DOD	T	10 uL					
280-120962-A-1 MSD	6MW2010MSD	8260C DOD	T	10 uL					
280-120962-B-2	6MW2010D	8260C DOD	T	10 uL					
280-120962-B-3	6MW2210	8260C DOD	T	10 uL					
280-120962-B-4	6MW2310	8260C DOD	T	10 uL					
280-120962-B-5	6MW2410	8260C DOD	T	10 uL					
280-120962-B-6	6MW2510	8260C DOD	T	10 uL					
280-120962-B-7	6MW2610	8260C DOD	T	10 uL					
280-120962-A-8	TB11	8260C DOD	T	10 uL					
280-120962-A-9	FB07	8260C DOD	T	10 uL					
CCVC 160-420035/21		8260C DOD		10 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-120962-1

SDG No.:

Project: Stratton ANGB - Site 6

Client Sample ID	Lab Sample ID
6MW2010	280-120962-1
6MW2010D	280-120962-2
6MW2210	280-120962-3
6MW2310	280-120962-4
6MW2410	280-120962-5
6MW2510	280-120962-6
6MW2610	280-120962-7

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2010 Lab Sample ID: 280-120962-1

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-120962-1

SDG ID.:

Matrix: Water Date Sampled: 03/06/2019 10:00

Reporting Basis: WET Date Received: 03/08/2019 09:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	3.7	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2010D
Lab Sample ID: 280-120962-2
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-120962-1
SDG ID.:
Matrix: Water
Date Sampled: 03/06/2019 10:00
Reporting Basis: WET
Date Received: 03/08/2019 09:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	3.8	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2210 Lab Sample ID: 280-120962-3

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-120962-1

SDG ID.:

Matrix: Water Date Sampled: 03/06/2019 12:10

Reporting Basis: WET Date Received: 03/08/2019 09:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	33	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2310 Lab Sample ID: 280-120962-4

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-120962-1

SDG ID.:

Matrix: Water Date Sampled: 03/06/2019 13:25

Reporting Basis: WET Date Received: 03/08/2019 09:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	3.8	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2410 Lab Sample ID: 280-120962-5

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-120962-1

SDG ID.:

Matrix: Water Date Sampled: 03/06/2019 14:15

Reporting Basis: WET Date Received: 03/08/2019 09:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	4.1	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2510 Lab Sample ID: 280-120962-6

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-120962-1

SDG ID.:

Matrix: Water Date Sampled: 03/06/2019 17:30

Reporting Basis: WET Date Received: 03/08/2019 09:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	11	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2610 Lab Sample ID: 280-120962-7

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-120962-1

SDG ID.:

Matrix: Water Date Sampled: 03/06/2019 16:10

Reporting Basis: WET Date Received: 03/08/2019 09:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	3.5	1.0	0.50	0.16	mg/L			1	9060A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-120962-1

SDG No.:

Analyst: LPL Batch Start Date: 03/12/2019

Reporting Units: mg/L Analytical Batch No.: 450593

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	12:37	Total Organic Carbon - Quad	19.9	20.0	100	90-110		TOC ICV Std_00036
2	ICB	12:54	Total Organic Carbon - Quad	0.50				U	
15	CCV	16:16	Total Organic Carbon - Quad	24.5	25.0	98	90-110		TOC LCS Std_00045
16	CCB	16:31	Total Organic Carbon - Quad	0.50				U	
27	CCV	19:19	Total Organic Carbon - Quad	24.5	25.0	98	90-110		TOC LCS Std_00045
28	CCB	19:34	Total Organic Carbon - Quad	0.50				U	
39	CCV	22:20	Total Organic Carbon - Quad	24.9	25.0	99	90-110		TOC LCS Std_00045
40	CCB	22:37	Total Organic Carbon - Quad	0.50				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-120962-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 450593 Date: 03/12/2019 13:24							
9060A	MB 280-450593/4	Total Organic Carbon - Quad	0.50	U	mg/L	1.0	1

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-120962-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 450593	Date: 03/12/2019 13:09										
						LCS Source: TOC LCS Std_00045					
9060A	LCS 280-450593/3	Total Organic Carbon - Quad	24.2		mg/L	25.0	97	88-112			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-120962-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI3

Method: 9060A DL Date: 03/28/2011 11:39

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Total Organic Carbon - Quad		1	0.155

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-120962-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI3

Method: 9060A XMDL Date: 03/28/2011 11:39

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Organic Carbon - Quad		1	0.155

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-120962-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 03/12/2019 12:37 End Date: 03/12/2019 23:36

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
ICV 280-450593/1	1		12:37	X																									
ICB 280-450593/2	1		12:54	X																									
LCS 280-450593/3	1	T	13:09	X																									
MB 280-450593/4	1	T	13:24	X																									
ZZZZZZ			13:39																										
ZZZZZZ			13:53																										
ZZZZZZ			14:08																										
ZZZZZZ			14:23																										
ZZZZZZ			14:40																										
ZZZZZZ			14:56																										
ZZZZZZ			15:13																										
ZZZZZZ			15:28																										
ZZZZZZ			15:45																										
ZZZZZZ			16:02																										
CCV 280-450593/15	1		16:16	X																									
CCB 280-450593/16	1		16:31	X																									
ZZZZZZ			16:46																										
ZZZZZZ			17:02																										
ZZZZZZ			17:17																										
ZZZZZZ			17:32																										
ZZZZZZ			17:47																										
ZZZZZZ			18:01																										
280-120962-1	1	T	18:18	X																									
280-120962-2	1	T	18:35	X																									
280-120962-3	1	T	18:50	X																									
280-120962-4	1	T	19:04	X																									
CCV 280-450593/27	1		19:19	X																									
CCB 280-450593/28	1		19:34	X																									
280-120962-5	1	T	19:48	X																									
280-120962-6	1	T	20:05	X																									
280-120962-7	1	T	20:22	X																									
ZZZZZZ			20:37																										
ZZZZZZ			20:51																										
ZZZZZZ			21:06																										
ZZZZZZ			21:21																										
ZZZZZZ			21:36																										
ZZZZZZ			21:50																										
ZZZZZZ			22:05																										
CCV 280-450593/39	1		22:20	X																									
CCB 280-450593/40	1		22:37	X																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-120962-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 03/12/2019 12:37 End Date: 03/12/2019 23:36

Lab Sample Id	D/F	Type	Time	Analytes																								
				TOCQ																								
ZZZZZZ			22:51																									
ZZZZZZ			23:06																									
CCV 280-450593/43			23:21																									
CCB 280-450593/44			23:36																									

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-120962-1

SDG No.:

Batch Number: 450593 Batch Start Date: 03/12/19 12:37 Batch Analyst: Loux, Lauren P

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TOC ICV Std 00036	TOC LCS Std 00045			
ICV 280-450593/1		9060A		50 mL	1 mL				
LCS 280-450593/3		9060A		200 mL		5 mL			
CCV 280-450593/15		9060A		200 mL		5 mL			
CCV 280-450593/27		9060A		200 mL		5 mL			
CCV 280-450593/39		9060A		200 mL		5 mL			

Batch Notes	
Acid ID	H2SO4_00195 0.2%H2SO4_00315
Combustion Catylyst ID	17007D-01
Pipette/Syringe/Dispenser ID	5000LL, 1000LL

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

9060 TOC

PH DBL 3/12/19

Sh13

	Analysis	Sample Name	Manual Diluti	Result	Notes	Date / Time	Vial
1*	NPOC	ICV	1.000	LZ			1
2*	NPOC	ICB	1.000	LZ			2
3*	NPOC	LCS	1.000	LZ			3
4*	NPOC	MB	1.000	LZ			4
5*	NPOC	TIC	1.000	LZ			5
6*	NPOC	280-121020-a-2	1.000	LZ			6
7*	NPOC	MS 280-121020-a-2	1.000	LZ			7
8*	NPOC	MSD 280-121020-a-2	1.000	LZ			8
9*	NPOC	280-121020-a-3	1.000	LZ			9
10*	NPOC	280-121020-a-4	1.000	LZ			10
11*	NPOC	280-120948-b-2	1.000	LZ			11
12*	NPOC	280-120960-a-3	1.000	LZ			12
13*	NPOC	280-120960-a-4	1.000	LZ			13
14*	NPOC	280-120960-a-5	1.000	LZ			14
15*	NPOC	CCV	1.000	LZ			15
16*	NPOC	CCB	1.000	LZ			16
17*	NPOC	280-121026-a-1	1.000	LZ			17
18*	NPOC	280-121026-a-2	1.000	LZ			18
19*	NPOC	280-121026-a-3	1.000	LZ			19
20*	NPOC	280-121026-a-4	1.000	LZ			20
21*	NPOC	MS 280-121026-a-4	1.000	LZ			21
22*	NPOC	MSD 280-121026-a-4	1.000	LZ			22
23*	NPOC	280-120962-a-1	1.000	LZ			23
24*	NPOC	280-120962-a-2	1.000	LZ			24
25*	NPOC	280-120962-a-3	1.000	LZ			25
26*	NPOC	280-120962-a-4	1.000	LZ			26
27*	NPOC	CCV	1.000	LZ			27
28*	NPOC	CCB	1.000	LZ			28
29*	NPOC	280-120962-a-5	1.000	LZ			29
30*	NPOC	280-120962-a-6	1.000	LZ			30
31*	NPOC	280-120962-a-7	1.000	LZ			31
32*	NPOC	280-121026-a-5	1.000	LZ			32
33*	NPOC	280-121026-a-6	1.000	LZ			33
34*	NPOC	LCS	1.000	LZ			34
35*	NPOC	MB	1.000	LZ			35
36*	NPOC	TIC	1.000	LZ			36
37*	NPOC	280-121026-a-7	1.000	LZ			37
38*	NPOC	MS 280-121026-a-7	1.000	LZ			38
39*	NPOC	CCV	1.000	LZ			39
40*	NPOC	CCB	1.000	LZ			40
41*	NPOC	MSD 280-121026-a-7	1.000	LZ			41
42*	NPOC	280-121026-a-8	1.000	LZ			42
43*	NPOC	CCV	1.000	LZ			43
44*	NPOC	CCB	1.000	LZ			44

	Analysis	Sample Name	Manual Diluti	Result	Notes	Date / Time	Vial
1	NPOC	ICV	1.000	NPOC:19.93mg/L		3/12/2019 12:44:18	1
2	NPOC	ICB	1.000	NPOC:-0.01189mg/L		3/12/2019 1:01:05	2
3	NPOC	LCS	1.000	NPOC:24.24mg/L		3/12/2019 1:15:48	3
4	NPOC	MB	1.000	NPOC:0.03129mg/L		3/12/2019 1:30:31	4
5	NPOC	TIC	1.000	NPOC:0.05230mg/L		3/12/2019 1:45:14	5
6	NPOC	280-121020-a-2	1.000	NPOC:1.376mg/L		3/12/2019 1:59:57	6
7	NPOC	MS 280-121020-a-2	1.000	NPOC:25.67mg/L		3/12/2019 2:14:52	7
8	NPOC	MSD 280-121020-a-2	1.000	NPOC:25.73mg/L		3/12/2019 2:29:38	8
9	NPOC	280-121020-a-3	1.000	NPOC:1.171mg/L		3/12/2019 2:46:24	9
10	NPOC	280-121020-a-4	1.000	NPOC:1.236mg/L		3/12/2019 3:03:11	10
11	NPOC	280-120948-b-2	1.000	NPOC:0.4745mg/L		3/12/2019 3:19:56	11
12	NPOC	280-120960-a-3	1.000	NPOC:6.690mg/L		3/12/2019 3:34:39	12
13	NPOC	280-120960-a-4	1.000	NPOC:5.861mg/L		3/12/2019 3:51:26	13
14	NPOC	280-120960-a-5	1.000	NPOC:2.274mg/L		3/12/2019 4:08:11	14
15	NPOC	CCV	1.000	NPOC:24.54mg/L		3/12/2019 4:22:58	15
16	NPOC	CCB	1.000	NPOC:0.1090mg/L		3/12/2019 4:37:41	16
17	NPOC	280-121026-a-1	1.000	NPOC:3.980mg/L		3/12/2019 4:52:24	17
18	NPOC	280-121026-a-2	1.000	NPOC:4.539mg/L		3/12/2019 5:09:10	18
19	NPOC	280-121026-a-3	1.000	NPOC:4.889mg/L		3/12/2019 5:23:53	19
20	NPOC	280-121026-a-4	1.000	NPOC:3.172mg/L		3/12/2019 5:38:36	20
21	NPOC	MS 280-121026-a-4	1.000	NPOC:27.78mg/L		3/12/2019 5:53:20	21
22	NPOC	MSD 280-121026-a-4	1.000	NPOC:27.76mg/L		3/12/2019 6:08:04	22
23	NPOC	280-120962-a-1	1.000	NPOC:3.683mg/L		3/12/2019 6:26:54	23
24	NPOC	280-120962-a-2	1.000	NPOC:3.760mg/L		3/12/2019 6:41:32	24
25	NPOC	280-120962-a-3	1.000	NPOC:32.83mg/L		3/12/2019 6:56:15	25
26	NPOC	280-120962-a-4	1.000	NPOC:3.836mg/L		3/12/2019 7:10:58	26
27	NPOC	CCV	1.000	NPOC:24.54mg/L		3/12/2019 7:25:42	27
28	NPOC	CCB	1.000	NPOC:0.06529mg/L		3/12/2019 7:40:25	28
29	NPOC	280-120962-a-5	1.000	NPOC:4.137mg/L		3/12/2019 7:55:08	29
30	NPOC	280-120962-a-6	1.000	NPOC:11.11mg/L		3/12/2019 8:11:55	30
31	NPOC	280-120962-a-7	1.000	NPOC:3.537mg/L		3/12/2019 8:28:41	31
32	NPOC	280-121026-a-5	1.000	NPOC:4.126mg/L		3/12/2019 8:43:25	32
33	NPOC	280-121026-a-6	1.000	NPOC:3.777mg/L		3/12/2019 8:58:08	33
34	NPOC	LCS	1.000	NPOC:24.58mg/L		3/12/2019 9:12:53	34
35	NPOC	MB	1.000	NPOC:0.09168mg/L		3/12/2019 9:27:37	35
36	NPOC	TIC	1.000	NPOC:0.1047mg/L		3/12/2019 9:42:21	36
37	NPOC	280-121026-a-7	1.000	NPOC:3.253mg/L		3/12/2019 9:57:05	37
38	NPOC	MS 280-121026-a-7	1.000	NPOC:27.71mg/L		3/12/2019 10:11:48	38
39	NPOC	CCV	1.000	NPOC:24.87mg/L		3/12/2019 10:26:33	39
40	NPOC	CCB	1.000	NPOC:0.1157mg/L		3/12/2019 10:43:20	40
41	NPOC	MSD 280-121026-a-7	1.000	NPOC:27.82mg/L		3/12/2019 10:58:04	41
42	NPOC	280-121026-a-8	1.000	NPOC:4.154mg/L		3/12/2019 11:12:47	42
43	NPOC	CCV	1.000	NPOC:24.59mg/L		3/12/2019 11:27:31	43
44	NPOC	CCB	1.000	NPOC:0.1449mg/L		3/12/2019 11:42:16	44

Instr.Information

System	TOC-V cpn 3
Instrument Options	TOC/ASI/
Catalyst	Regular Sensitivity

Sample

Sample Name:	ICV
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

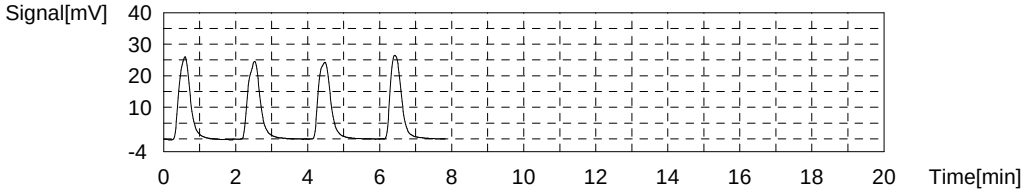
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.93mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	58.89	20.02mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 12:37:54 PM
2	58.88	20.02mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 12:40:02 PM
3	58.84	20.01mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 12:42:12 PM
4	57.84	19.67mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 12:44:18 PM

Mean Area 58.61
Mean Conc. 19.93mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

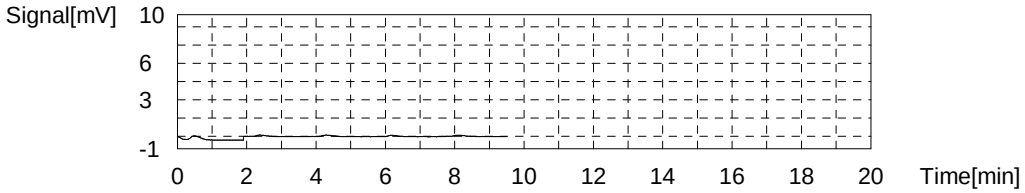
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.01189mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5147	0.1037mg/L	50uL	1	E	TOC3.2019_03_04_10_26_31.cal	3/12/2019 12:52:50 PM
2	0.1835	-0.00930mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 12:54:54 PM
3	0.2031	-0.00261mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 12:56:58 PM
4	0.1363	-0.02541mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 12:59:02 PM
5	0.1808	-0.01022mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:01:05 PM

Mean Area 0.1759
Mean Conc. -0.01189mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

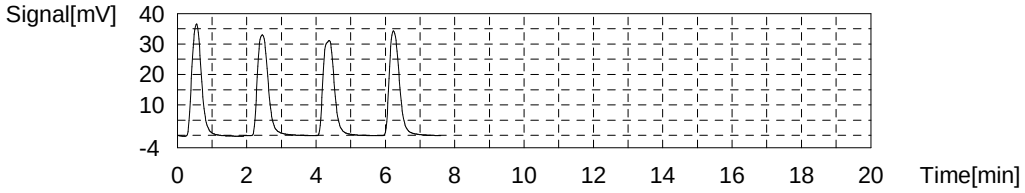
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.24mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	71.99	24.49mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:09:36 PM
2	71.76	24.42mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:11:40 PM
3	70.88	24.12mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:13:44 PM
4	70.32	23.92mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:15:48 PM

Mean Area 71.24
Mean Conc. 24.24mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

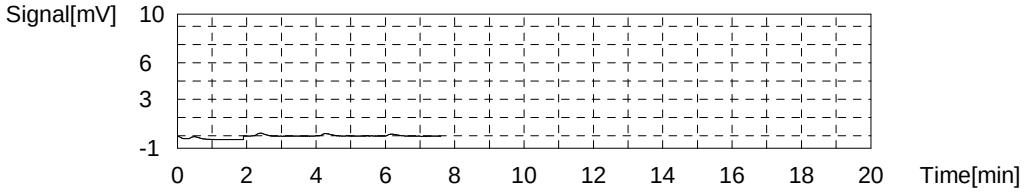
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03129mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2823	0.02441mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:24:19 PM
2	0.3500	0.04752mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:26:23 PM
3	0.3026	0.03134mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:28:27 PM
4	0.2749	0.02189mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:30:31 PM

Mean Area 0.3025
Mean Conc. 0.03129mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

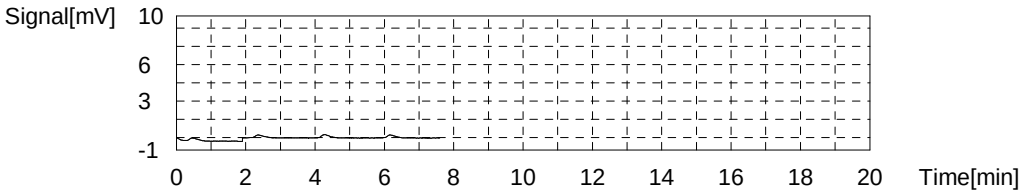
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05230mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3493	0.04728mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:39:02 PM
2	0.3409	0.04441mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:41:06 PM
3	0.4079	0.06727mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:43:10 PM
4	0.3580	0.05025mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:45:14 PM

Mean Area 0.3640
Mean Conc. 0.05230mg/L



Sample

Sample Name: 280-121020-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

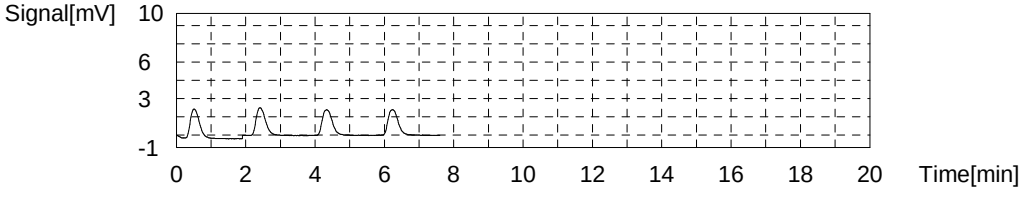
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.376mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.335	1.407mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:53:45 PM
2	4.259	1.381mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:55:49 PM
3	4.191	1.358mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:57:53 PM
4	4.190	1.358mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 1:59:57 PM

Mean Area 4.244
Mean Conc. 1.376mg/L



Sample

Sample Name: MS 280-121020-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

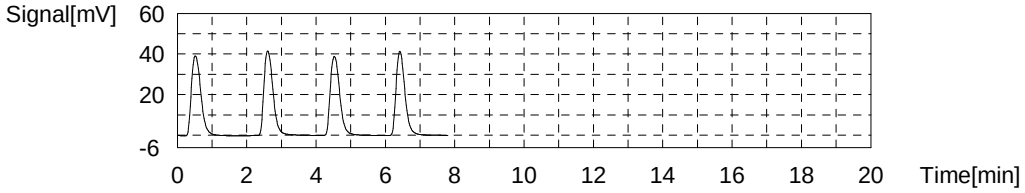
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.67mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.45	26.02mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:08:40 PM
2	76.40	26.00mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:10:44 PM
3	74.73	25.43mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:12:48 PM
4	74.16	25.23mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:14:52 PM

Mean Area 75.44
Mean Conc. 25.67mg/L



Sample

Sample Name: MSD 280-121020-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

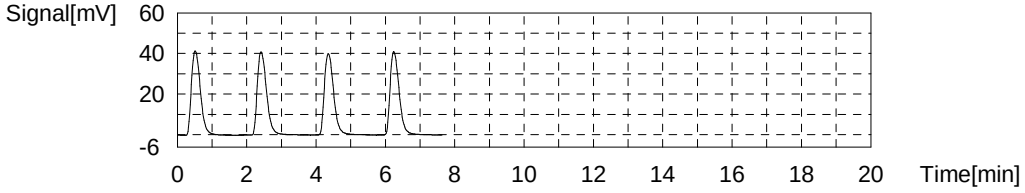
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.73mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.39	26.00mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:23:24 PM
2	76.60	26.07mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:25:30 PM
3	74.72	25.43mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:27:34 PM
4	74.73	25.43mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:29:38 PM

Mean Area 75.61
Mean Conc. 25.73mg/L



Sample

Sample Name: 280-121020-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

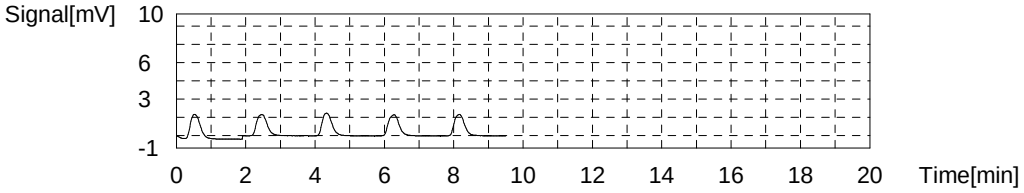
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.171mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.897	1.258mg/L	50uL	1	E	TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:38:09 PM
2	3.642	1.171mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:40:13 PM
3	3.644	1.172mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:42:17 PM
4	3.676	1.182mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:44:21 PM
5	3.612	1.161mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:46:24 PM

Mean Area 3.644
Mean Conc. 1.171mg/L



Sample

Sample Name: 280-121020-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

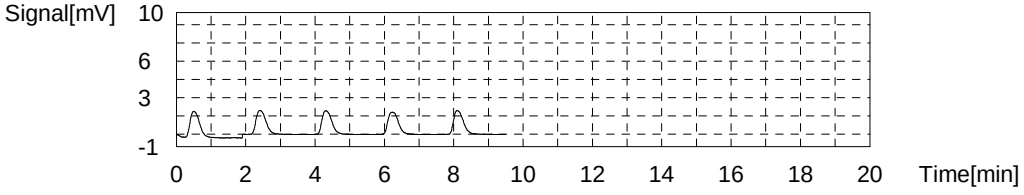
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.236mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.051	1.310mg/L	50uL	1	E	TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:54:55 PM
2	3.891	1.256mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:56:59 PM
3	3.837	1.237mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 2:59:03 PM
4	3.812	1.229mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:01:07 PM
5	3.797	1.224mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:03:11 PM

Mean Area 3.834
Mean Conc. 1.236mg/L



Sample

Sample Name: 280-120948-b-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

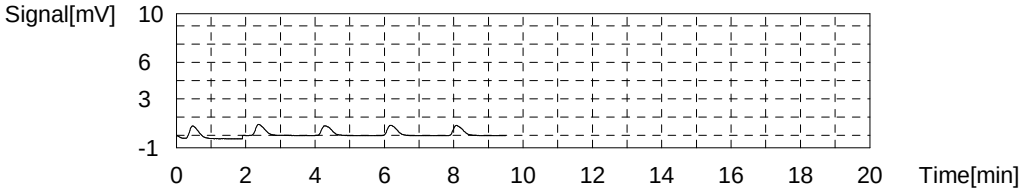
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4745mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.839	0.5556mg/L	50uL	1	E	TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:11:41 PM
2	1.644	0.4891mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:13:45 PM
3	1.569	0.4635mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:15:49 PM
4	1.612	0.4782mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:17:53 PM
5	1.580	0.4672mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:19:56 PM

Mean Area 1.601
Mean Conc. 0.4745mg/L



Sample

Sample Name: 280-120960-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

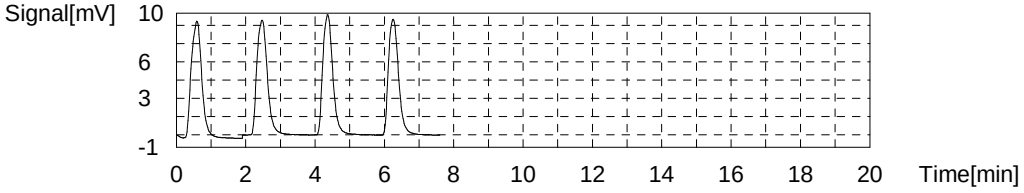
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.690mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.25	6.838mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:28:27 PM
2	19.83	6.695mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:30:31 PM
3	19.78	6.678mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:32:35 PM
4	19.40	6.548mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:34:39 PM

Mean Area 19.82
Mean Conc. 6.690mg/L



Sample

Sample Name: 280-120960-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

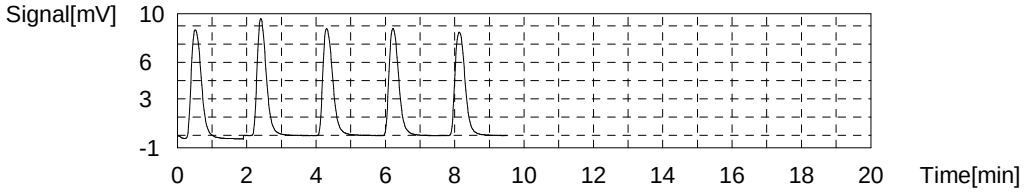
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.861mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.24	6.152mg/L	50uL	1	E	TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:43:10 PM
2	17.65	5.951mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:45:14 PM
3	17.39	5.862mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:47:18 PM
4	17.28	5.825mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:49:22 PM
5	17.22	5.804mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:51:26 PM

Mean Area 17.39
Mean Conc. 5.861mg/L



Sample

Sample Name: 280-120960-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

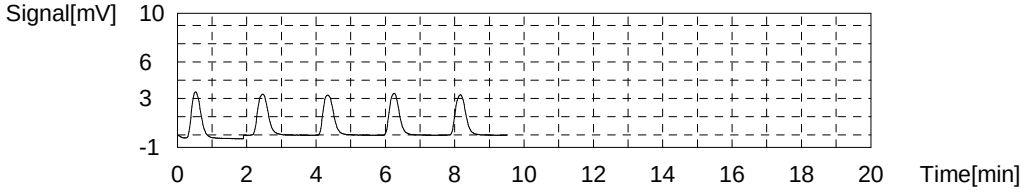
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.274mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.061	2.338mg/L	50uL	1	E	TOC3.2019_03_04_10_26_31.cal	3/12/2019 3:59:56 PM
2	7.037	2.329mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:02:00 PM
3	6.825	2.257mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:04:04 PM
4	6.775	2.240mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:06:08 PM
5	6.856	2.268mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:08:11 PM

Mean Area 6.873
Mean Conc. 2.274mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

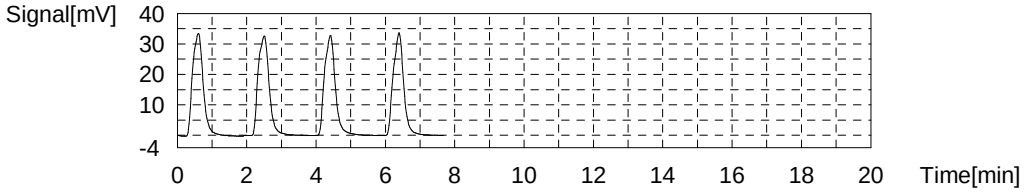
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.54mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	73.26	24.93mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:16:42 PM
2	72.65	24.72mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:18:46 PM
3	71.86	24.45mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:20:54 PM
4	70.74	24.07mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:22:58 PM

Mean Area 72.13
Mean Conc. 24.54mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

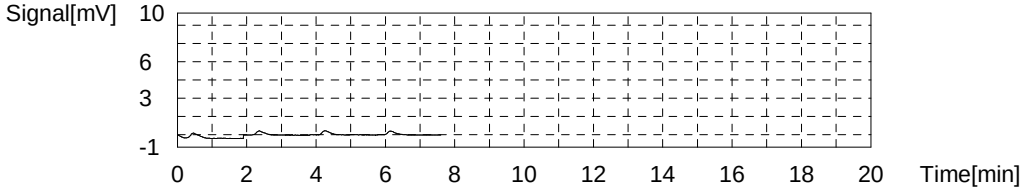
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1090mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6466	0.1487mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:31:29 PM
2	0.4947	0.09689mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:33:33 PM
3	0.5165	0.1043mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:35:37 PM
4	0.4635	0.08625mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:37:41 PM

Mean Area 0.5303
Mean Conc. 0.1090mg/L



Sample

Sample Name: 280-121026-a-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

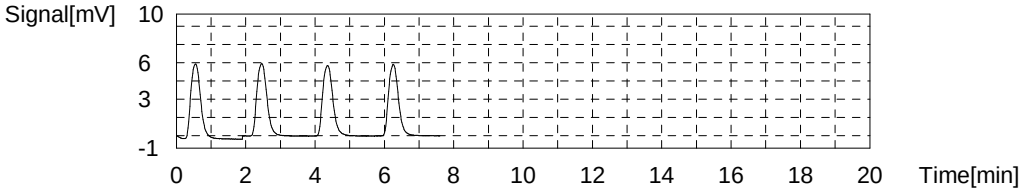
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.980mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.05	4.040mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:46:12 PM
2	11.98	4.016mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:48:16 PM
3	11.82	3.962mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:50:20 PM
4	11.65	3.904mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 4:52:24 PM

Mean Area 11.88
Mean Conc. 3.980mg/L



Sample

Sample Name: 280-121026-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

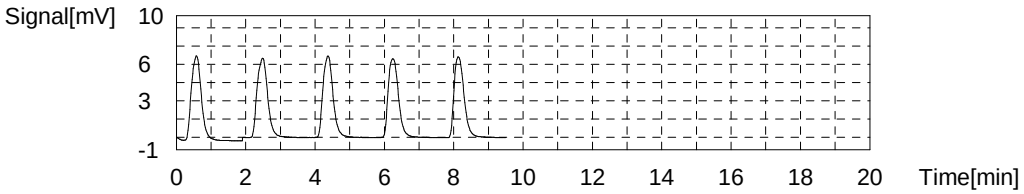
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.539mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.01	4.709mg/L	50uL	1	E	TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:00:55 PM
2	13.83	4.647mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:02:59 PM
3	13.57	4.559mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:05:03 PM
4	13.39	4.497mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:07:06 PM
5	13.26	4.453mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:09:10 PM

Mean Area 13.51
Mean Conc. 4.539mg/L



Sample

Sample Name: 280-121026-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

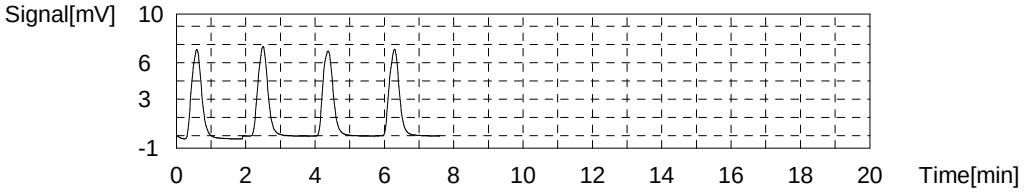
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.889mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.89	5.009mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:17:41 PM
2	14.64	4.924mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:19:45 PM
3	14.37	4.832mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:21:49 PM
4	14.25	4.791mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:23:53 PM

Mean Area 14.54
Mean Conc. 4.889mg/L



Sample

Sample Name: 280-121026-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

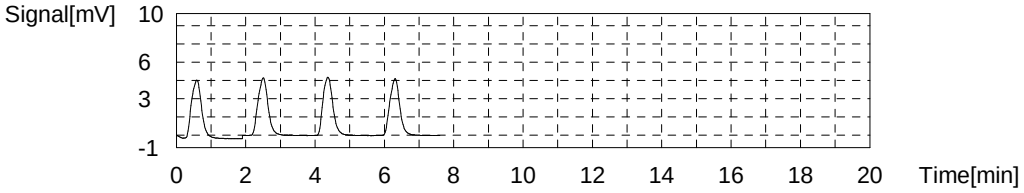
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.172mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.734	3.250mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:32:24 PM
2	9.516	3.175mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:34:28 PM
3	9.476	3.162mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:36:32 PM
4	9.300	3.102mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:38:36 PM

Mean Area 9.506
Mean Conc. 3.172mg/L



Sample

Sample Name: MS 280-121026-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

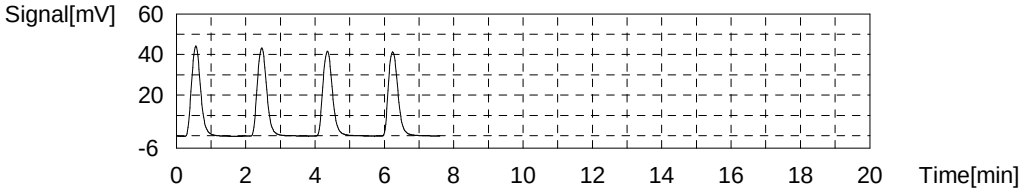
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.78mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	82.64	28.13mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:47:08 PM
2	82.41	28.05mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:49:12 PM
3	80.95	27.55mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:51:16 PM
4	80.44	27.38mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 5:53:20 PM

Mean Area 81.61
Mean Conc. 27.78mg/L



Sample

Sample Name: MSD 280-121026-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

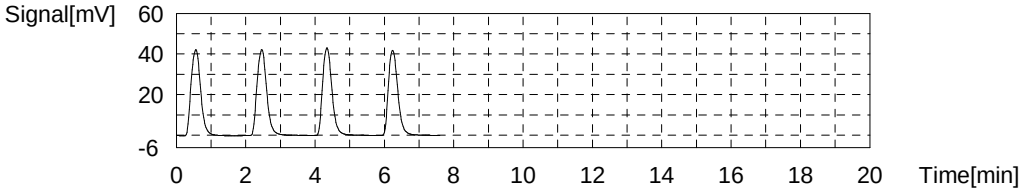
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.76mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	82.72	28.16mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:01:52 PM
2	82.42	28.05mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:03:56 PM
3	81.32	27.68mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:06:00 PM
4	79.81	27.16mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:08:04 PM

Mean Area 81.57
Mean Conc. 27.76mg/L



Sample

Sample Name: 280-120962-a-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

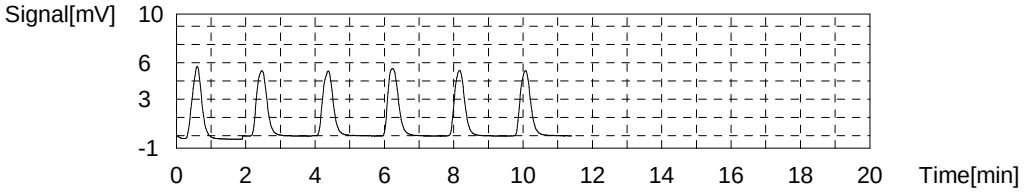
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.683mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.41	3.822mg/L	50uL	1	E	TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:16:35 PM
2	11.11	3.719mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:18:39 PM
3	10.99	3.678mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:20:43 PM
4	11.69	3.917mg/L	50uL	1	E	TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:22:47 PM
5	10.89	3.644mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:24:50 PM
6	11.02	3.689mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:26:54 PM

Mean Area 11.00
Mean Conc. 3.683mg/L



Sample

Sample Name: 280-120962-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

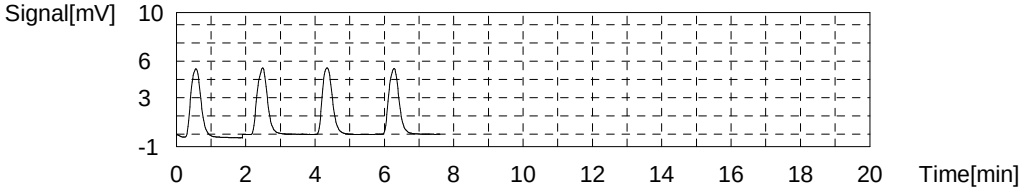
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.760mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.44	3.832mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:35:20 PM
2	11.28	3.777mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:37:24 PM
3	11.09	3.712mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:39:28 PM
4	11.11	3.719mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:41:32 PM

Mean Area 11.23
Mean Conc. 3.760mg/L



Sample

Sample Name: 280-120962-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

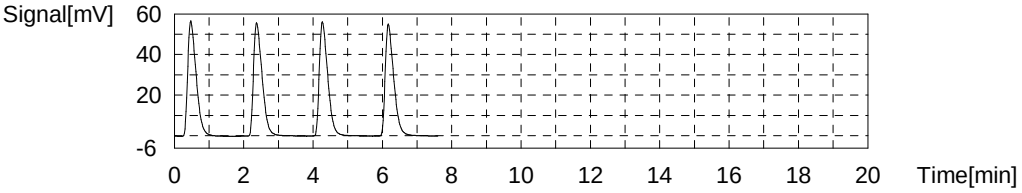
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:32.83mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.97	33.36mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:50:03 PM
2	97.21	33.10mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:52:07 PM
3	95.74	32.60mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:54:11 PM
4	94.81	32.28mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 6:56:15 PM

Mean Area 96.43
Mean Conc. 32.83mg/L



Sample

Sample Name: 280-120962-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

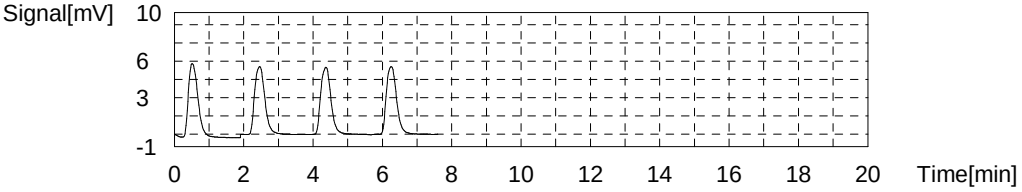
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.836mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.62	3.893mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:04:46 PM
2	11.41	3.822mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:06:50 PM
3	11.35	3.801mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:08:54 PM
4	11.43	3.828mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:10:58 PM

Mean Area 11.45
Mean Conc. 3.836mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

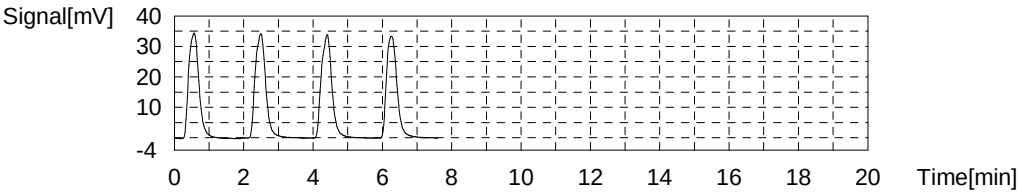
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.54mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.61	24.71mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:19:30 PM
2	72.83	24.78mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:21:34 PM
3	72.03	24.51mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:23:38 PM
4	71.03	24.17mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:25:42 PM

Mean Area 72.13
Mean Conc. 24.54mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

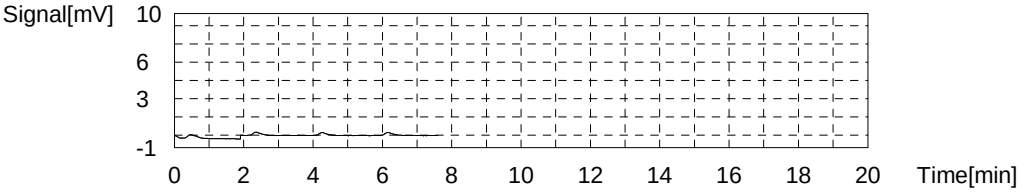
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06529mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4932	0.09638mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:34:13 PM
2	0.3983	0.06400mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:36:17 PM
3	0.3511	0.04789mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:38:21 PM
4	0.3657	0.05287mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:40:25 PM

Mean Area 0.4021
Mean Conc. 0.06529mg/L



Sample

Sample Name: 280-120962-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

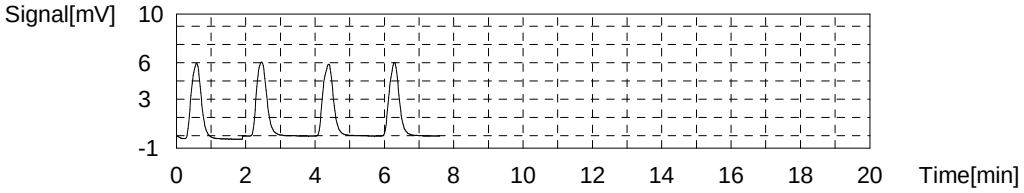
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.137mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.48	4.187mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:48:56 PM
2	12.42	4.166mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:51:00 PM
3	12.30	4.125mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:53:04 PM
4	12.14	4.071mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 7:55:08 PM

Mean Area 12.34
Mean Conc. 4.137mg/L



Sample

Sample Name: 280-120962-a-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

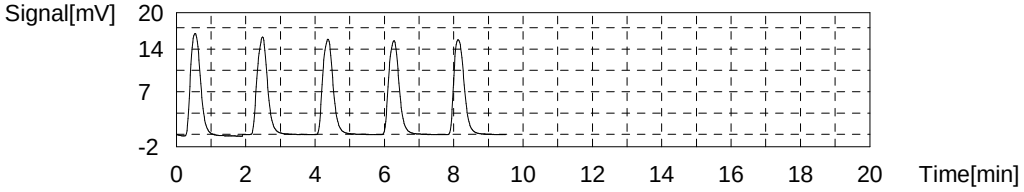
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.11mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.20	11.60mg/L	50uL	1	E	TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:03:39 PM
2	33.42	11.33mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:05:43 PM
3	32.74	11.10mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:07:47 PM
4	32.56	11.04mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:09:51 PM
5	32.35	10.97mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:11:55 PM

Mean Area 32.77
Mean Conc. 11.11mg/L



Sample

Sample Name: 280-120962-a-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

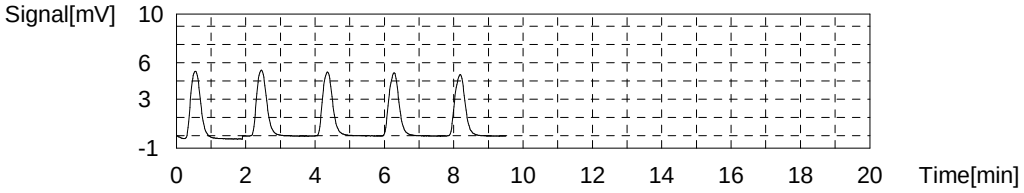
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.537mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.10	3.716mg/L	50uL	1	E	TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:20:26 PM
2	10.87	3.637mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:22:30 PM
3	10.49	3.508mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:24:34 PM
4	10.51	3.515mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:26:38 PM
5	10.43	3.487mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:28:41 PM

Mean Area 10.57
Mean Conc. 3.537mg/L



Sample

Sample Name: 280-121026-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

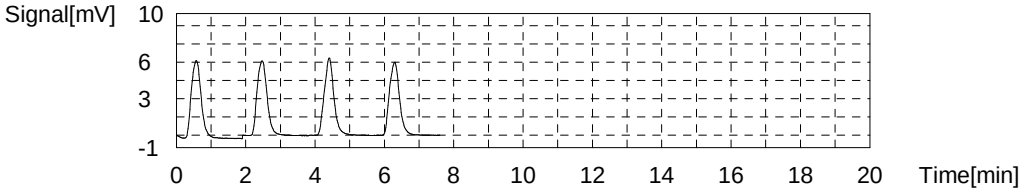
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.126mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.55	4.211mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:37:13 PM
2	12.31	4.129mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:39:17 PM
3	12.18	4.084mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:41:21 PM
4	12.17	4.081mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:43:25 PM

Mean Area 12.30
Mean Conc. 4.126mg/L



Sample

Sample Name: 280-121026-a-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

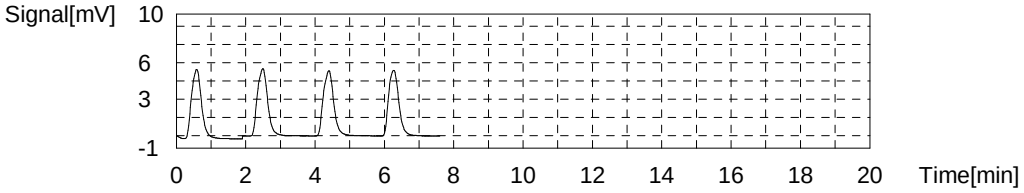
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.777mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.48	3.846mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:51:57 PM
2	11.40	3.818mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:54:01 PM
3	11.17	3.740mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:56:05 PM
4	11.07	3.706mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 8:58:08 PM

Mean Area 11.28
Mean Conc. 3.777mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

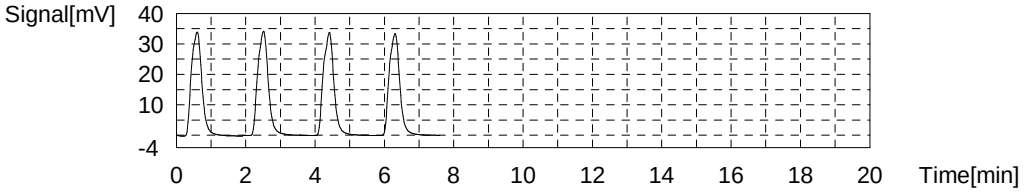
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.58mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.95	24.82mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:06:41 PM
2	72.94	24.82mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:08:45 PM
3	71.84	24.44mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:10:49 PM
4	71.26	24.24mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:12:53 PM

Mean Area 72.25
Mean Conc. 24.58mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

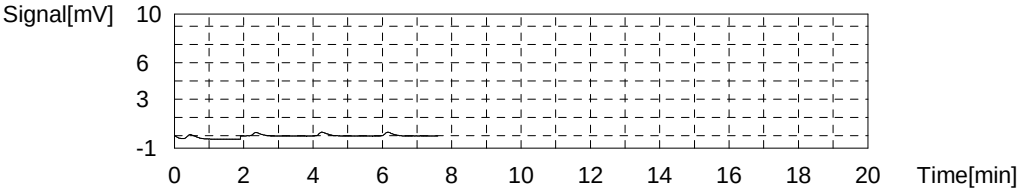
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.09168mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5486	0.1153mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:21:25 PM
2	0.4227	0.07232mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:23:29 PM
3	0.4786	0.09140mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:25:33 PM
4	0.4678	0.08771mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:27:37 PM

Mean Area 0.4794
Mean Conc. 0.09168mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

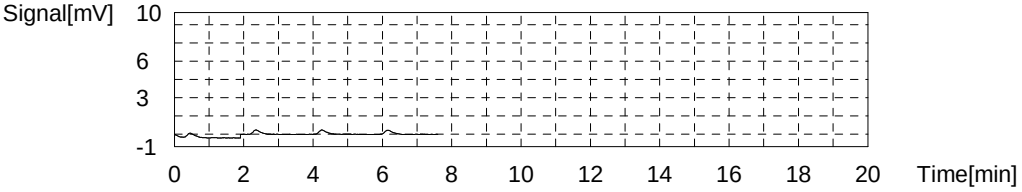
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1047mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5058	0.1007mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:36:09 PM
2	0.5149	0.1038mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:38:13 PM
3	0.5189	0.1052mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:40:17 PM
4	0.5308	0.1092mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:42:21 PM

Mean Area 0.5176
Mean Conc. 0.1047mg/L



Sample

Sample Name: 280-121026-a-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

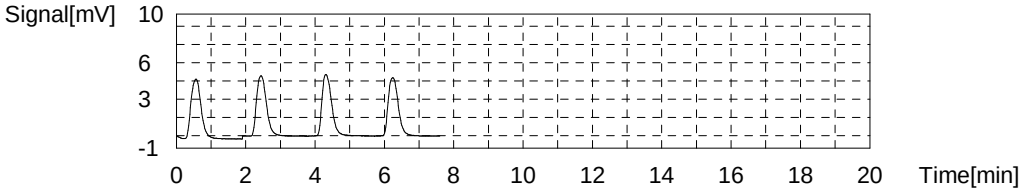
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.253mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.924	3.315mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:50:53 PM
2	9.812	3.276mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:52:57 PM
3	9.648	3.220mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:55:01 PM
4	9.592	3.201mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 9:57:05 PM

Mean Area 9.744
Mean Conc. 3.253mg/L



Sample

Sample Name: MS 280-121026-a-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

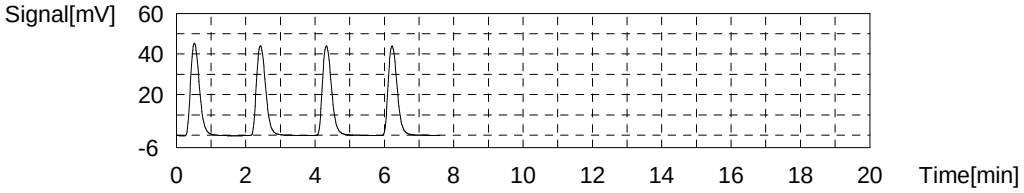
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.71mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	82.46	28.07mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:05:37 PM
2	81.85	27.86mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:07:41 PM
3	80.98	27.56mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:09:45 PM
4	80.34	27.34mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:11:48 PM

Mean Area 81.41
Mean Conc. 27.71mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

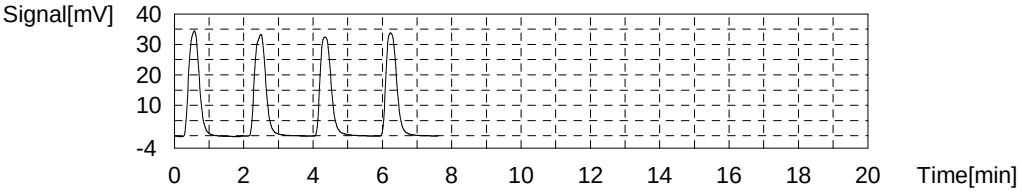
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.87mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	73.84	25.13mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:20:21 PM
2	74.18	25.24mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:22:25 PM
3	71.81	24.43mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:24:29 PM
4	72.52	24.67mg/L	50uL	1		TOC3.2019_03_04_10_26_33 PM	3/12/2019 10:26:33 PM

Mean Area 73.09
Mean Conc. 24.87mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

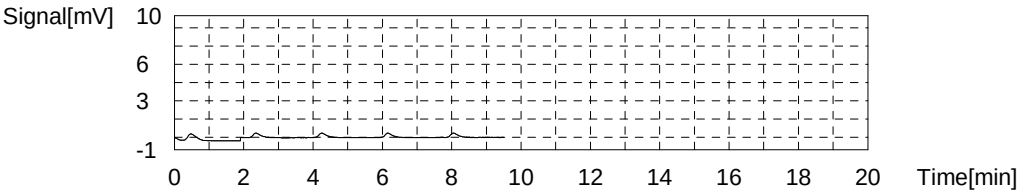
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1157mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8405	0.2149mg/L	50uL	1	E	TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:35:05 PM
2	0.5695	0.1224mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:37:09 PM
3	0.5499	0.1157mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:39:13 PM
4	0.5431	0.1134mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:41:16 PM
5	0.5368	0.1113mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:43:20 PM

Mean Area 0.5498
Mean Conc. 0.1157mg/L



Sample

Sample Name: MSD 280-121026-a-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

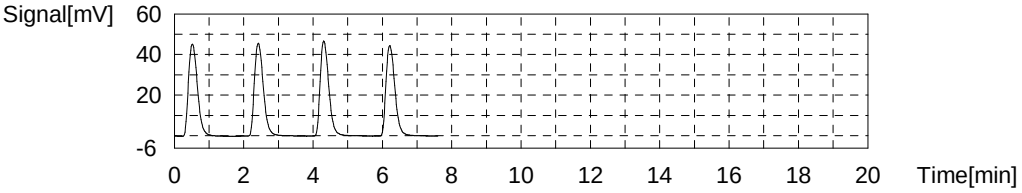
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.82mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	83.28	28.35mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:51:52 PM
2	82.51	28.08mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:53:56 PM
3	81.06	27.59mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:56:00 PM
4	80.09	27.26mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 10:58:04 PM

Mean Area 81.74
Mean Conc. 27.82mg/L



Sample

Sample Name: 280-121026-a-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

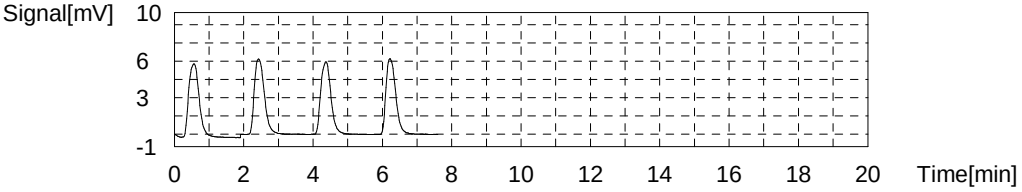
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.154mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.67	4.252mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 11:06:36 PM
2	12.49	4.190mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 11:08:40 PM
3	12.16	4.078mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 11:10:44 PM
4	12.22	4.098mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 11:12:47 PM

Mean Area 12.39
Mean Conc. 4.154mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

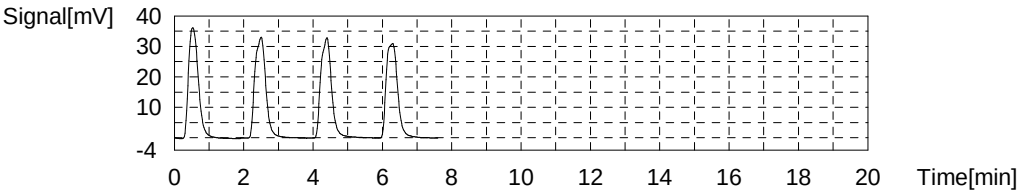
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.59mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	73.14	24.89mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 11:21:20 PM
2	72.96	24.82mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 11:23:24 PM
3	71.39	24.29mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 11:25:28 PM
4	71.57	24.35mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 11:27:31 PM

Mean Area 72.27
Mean Conc. 24.59mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

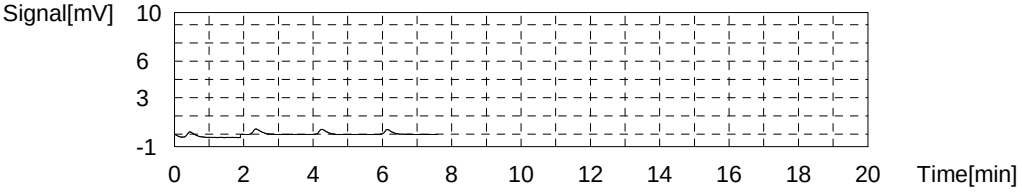
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1449mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6408	0.1467mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 11:36:04 PM
2	0.7221	0.1745mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 11:38:08 PM
3	0.6188	0.1392mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 11:40:12 PM
4	0.5595	0.1190mg/L	50uL	1		TOC3.2019_03_04_10_26_31.cal	3/12/2019 11:42:16 PM

Mean Area 0.6353
Mean Conc. 0.1449mg/L



TOC-V Cal Curve Information
C:¥TOC3201¥CalCurves¥TOC3.2019_03_04_10_26_31.cal

Date of Creation 11:31:40 AM 3/4/2019
User ||
System TOC-V cpn 3

Cal. Curve

Sample Name: CAL 110716
Sample ID: Untitled
Object ID 0A-103108-04335027-134146018F4E-0000
Cal. Curve: TOC3.cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.5612	50uL	1	*******		3/4/2019 10:34:13 AM
2	0.8595	50uL	1	*******	E	3/4/2019 10:36:16 AM
3	0.4871	50uL	1	*******		3/4/2019 10:38:20 AM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 0.5242
SD Area 0.05240
CV Area 10.00%
Vial 1

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.055	50uL	1	*******		3/4/2019 10:46:49 AM
2	3.186	50uL	1	*******		3/4/2019 10:48:53 AM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 3.120
SD Area 0.09263
CV Area 2.97%
Vial 2

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	14.74	50uL	1	*******		3/4/2019 10:57:28 AM
2	14.73	50uL	1	*******		3/4/2019 10:59:31 AM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 14.73
SD Area 0.00707
CV Area 0.05%
Vial 3

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	29.52	50uL	1	*******		3/4/2019 11:08:05 AM
2	29.59	50uL	1	*******		3/4/2019 11:10:09 AM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 29.56
SD Area 0.04950
CV Area 0.17%
Vial 4

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	72.71	50uL	1	*******		3/4/2019 11:18:44 AM
2	73.40	50uL	1	*******		3/4/2019 11:21:02 AM

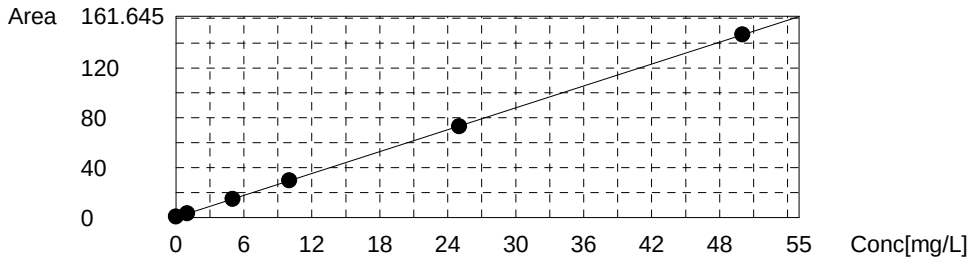
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 73.06
SD Area 0.4879
CV Area 0.67%
Vial 5

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	147.3	50uL	1	*******		3/4/2019 11:29:37 AM
2	146.6	50uL	1	*******		3/4/2019 11:31:40 AM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 146.9
SD Area 0.4950
CV Area 0.34%
Vial 6

Slope: 2.930
Intercept 0.2108
r^2 1.0000
r 1.0000
Zero Shift No



Subcontract Data

Shipping and Receiving Documents

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Albany #224

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Michael Deyette	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Poligone	Phone: ~~518-496-5313~~ 518-350-3306	E-Mail: donna.rydberg@testamericainc.com		Page: Page _1__ of _1__
Company: Leidos, Inc.		Analysis Requested		Job #: Leidos Stratton (TA project #28015159)
Address: 301 Laboratory Road	Due Date Requested:			Preservation Codes:
City: Oak Ridge	TAT Requested (days): Standard TAT (21 Days)			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: TN, 37830				
Phone: 865-405-8332 (cell)	PO #: P010205723			
Email: poligonem@leidos.com	Charge #: CLIN 0002: 314561.00.04.8002.940			
Project Name: 2015 Eastern IRP, DO0004	Project #: Leidos Stratton (TA project #28015159)			
Site: Stratton ANG Base - Site 6	SSOW#:			ther:

280-120962 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C_DOD5 - VOCs	9060A - TOC	Total Number	Special Instructions/Note:
			Preservation Code:				N	S		
6MW2010	3/6/19	10:00	Grab	Water	N	N	X	X	4	Samples shipped to TA Denver
6MW2010D	3/6/19	10:00	Grab	Water	N	N	X	X	4	
6MW2010MS	3/6/19	10:00	Grab	Water	N	Y	X		3	
6MW2010MSD	3/6/19	10:00	Grab	Water	N	Y	X		3	
6MW2210	3/6/19	12:10	Grab	Water	N	N	X	X	4	
6MW2310	3/6/19	13:25	Grab	Water	N	N	X	X	4	
6MW2410	3/6/19	14:15	Grab	Water	N	N	X	X	4	
6MW2510	3/6/19	17:30	Grab	Water	N	N	X	X	4	
6MW2610	3/6/19	16:10	Grab	Water	N	N	X	X	4	
TB11	3/6/19	16:15	Grab	Water	N	N			2	
FB07	3/6/19	16:20	Grab	Water	N	N			3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
(Per Contract Terms - Lab disposal after 3 months archive

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/6/19 1800	Aztech	[signature]	3/7/19 0700	TA
[signature]	3/7/19 1700	TA	[signature]	3/8/19 950	TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.7 shipped by RS 3/8/19

Ver: 08/04/2016

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-474674.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA; NELAP - Florida; NELAP - New Hampshire ...		Job #: 280-120962-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/27/2019			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Stratton ANGB - Site 6	Project #: 28015159			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C_DOD5/5030C VOCs - TA St. Louis (for NY samples)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
6MW2010 (280-120962-1)	3/6/19	10:00 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2010MS (280-120962-1MS)	3/6/19	10:00 Eastern	MS	Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2010MSD (280-120962-1MSD)	3/6/19	10:00 Eastern	MSD	Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2010D (280-120962-2)	3/6/19	10:00 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2210 (280-120962-3)	3/6/19	12:10 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2310 (280-120962-4)	3/6/19	13:25 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2410 (280-120962-5)	3/6/19	14:15 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2510 (280-120962-6)	3/6/19	17:30 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2610 (280-120962-7)	3/6/19	16:10 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 4	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	3/11/19 1421	TAL	Michael Thum	3-12-19 09:15	TA STL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-474674.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA; NELAP - Florida; NELAP - New Hampshire ...		Job #: 280-120962-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/27/2019			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Stratton ANGB - Site 6	Project #: 28015159			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C_DOD5/5030C VOCs - TA St. Louis (for NY samples)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TB11 (280-120962-8)	3/6/19	16:15 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
FB07 (280-120962-9)	3/6/19	16:20 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration

280-120962 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 4	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 3/11/19 1421	Company TAL CA	Received by: Michael Flum	Date/Time: 3-12-19 0915	Company TA STL	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 280-120962-1

Login Number: 120962
List Number: 1
Creator: Staack, KiAundra A

List Source: Eurofins TestAmerica, Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Requested analyses are not listed on COC
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 280-120962-1

Login Number: 120962
List Number: 2
Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis
List Creation: 03/13/19 05:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

JUNE 2019

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LEIDOS
Laboratory Data Verification Checklist

Project: Stratton

SDG No: J175605

Analyte Group: Select VOCs
Sample Matrix: Aqueous
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	
Check that discussion covers each analytical type included in the SDG	
Check for identified nonconforming items (e.g., missed holding times, etc.)	

2. Chain-of-Custody (COC)

Check COC sample collection, shipping, and receiving dates	
Check that COC signature blocks are complete	
Check COC project sample IDs vs. Lab IDs and Result Form IDs	
Match COC requested analyses with Case Narrative and with data package content (Result Forms)	

3. Analytical Results Form

Verify that a Result Form is present for each sample and analysis	
On each Result Form check:	
SDG No.	
Sample ID	
Lab ID	
Date Collected	
Date Extracted	
Date Analyzed	
Result Matrix	
Result Units	

4. Project Verification

Check project analyte list vs. analytes reported — Y

Select VOCs = cis-12,2-Dichloroethene, Tetrachloroethene, Trichloroethene, and Vinyl chloride

Check project requested methods vs. analytical methods performed

Check analyte reporting levels vs. project reporting level goals

5. Analytical Quality Control Information

Check for surrogate recovery results (e.g., org. form II)

Check for LCS results (e.g., org. form III, inorg. form XII)

Check for method blank results (e.g., org. form IV, inorg. form III)

Check for MS/MSD results (e.g., inorg. form V)

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	
	continuing calibration data	
	internal standard areas	
	internal standard retention times	
	sample clean-up documentation	
	(org. forms V through X)	
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: Joseph C Peters Date: 8/1/19

QA Review By: Date:

LEIDOS
Laboratory Data Package Detail Form

Project: Stratton

SDG No: J175605

Analyte Group: Select VOCs

Field Sample ID	Lab ID #	Matrix	Analysis	Notes:

Comments:

Sample Summary

Client: Leidos, Inc. Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
490-175605-1	6MW2011	Water	06/05/19 12:40	06/08/19 09:45	
490-175605-2	6MW2511	Water	06/05/19 14:00	06/08/19 09:45	
490-175605-3	6MW2611	Water	06/05/19 14:45	06/08/19 09:45	
490-175605-4	6MW2311	Water	06/05/19 15:35	06/08/19 09:45	
490-175605-5	6MW2211	Water	06/05/19 16:35	06/08/19 09:45	
490-175605-6	6MW2411	Water	06/06/19 07:15	06/08/19 09:45	
490-175605-7	FB07	Water	06/06/19 06:50	06/08/19 09:45	
490-175605-8	TB	Water	06/05/19 12:40	06/08/19 09:45	
490-175605-9	6MW2011D	Water	06/05/19 12:40	06/08/19 09:45	

LEIDOS
Organic Data Review Checklist

Project: Stratton

SDG No: J175605

Analysis: Select VOCs

Method: SW-8260C

Laboratory:

Matrix: Aqueous

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: DOD QSM and QAPP guidance

Select VOCs = cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene, and vinyl Chloride

No data validation qualifiers

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: Joseph C Peters Date: 7/19/19

QA Reviewed by: Per PM request; QA review performed by validator (JEP) Date:

I. Case Narrative

Verify direct statements made within the Laboratory Case Narrative (note discrepancies).

Remarks: No discrepancies

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 dilutions or re-analysis

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: None. All holding times were met

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: _____

IV. System Monitoring Compounds (SMC) Recoveries (VOC, SVOC, Pesticides, PCBs)

List SMC compounds with unacceptable recoveries:

Note: SMC formerly known as surrogates.

Deviations: None. All surrogates were within limits

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: _____

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: None; all IS area counts and RT criteria were met.

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: _____

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: Method blank has no contamination

Date:	Lab ID #	Fraction	Compound	Conc. (ppb)

Field blank and trip blank has none of the select VOCs detected

Associated Project Blanks (e.g., equipment rinsates, trip blanks, etc.)

Date	Lab ID #	Fraction	Compound	Conc. (ppb)

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: None

Compound	Maximum Conc. Detected, (ppb)	Action Level (ppb)	Samples Affected

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 Y
All compounds must have and RRF > 0.01, %RSD < 30, and %D < 25 RSD < 15; %D < 20

VOC - Date of initial calibration: 5/23/19
VOC - Date(s) of continuing calibration: 6/17/19
Was the 12 hour critieria met? Y or N Y

SVOC- Date of initial calibration: _____
SVOC - Date(s) of continuing calibration: _____
Was the 12 hour critieria met? Y or N

Deviations: None; Select VOCs met criteria

Compound	Date	RRF	%RSD	%D	Samples Affected

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

NA

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: _____

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: 6MW2011

Deviations: None; all criteria met

Compound	%R	%R Limits	RPD	RPD Limits	Samples Affected

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/lcsd 160-431879/4 & 5

Deviations: None; all criteria met

Compound	Date	%R	Samples Affected/Qualifiers Applied

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:

Client Sample ID: 6MW2011 Lab Sample ID: 490-175605-1

Date Collected: 06/05/19 12:40 **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 13:15	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 13:15	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 13:15	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 13:15	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 13:15	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 13:15	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 13:15	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 13:15	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 13:15	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 13:15	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 13:15	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 13:15	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 13:15	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 13:15	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 13:15	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 13:15	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 13:15	1
2-Butanone (MEK)	**29**		20	2.4	ug/L			06/17/19 13:15	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 13:15	1
2-Hexanone	5.0	U M	20	4.6	ug/L			06/17/19 13:15	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 13:15	1
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 13:15	1
Acetone	**10**	**J**	20	3.2	ug/L			06/17/19 13:15	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 13:15	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 13:15	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 13:15	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 13:15	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 13:15	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 13:15	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 13:15	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 13:15	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 13:15	1
Chloroethane	2.5	U J1	10	1.0	ug/L			06/17/19 13:15	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 13:15	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 13:15	1
cis-1,2-Dichloroethene	**2.5**	**J** J	5.0	0.76	ug/L			06/17/19 13:15	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 13:15	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 13:15	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 13:15	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 13:15	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 13:15	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 13:15	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 13:15	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 13:15	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 13:15	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 13:15	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 13:15	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 13:15	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 13:15	1

Client Sample ID: 6MW2011 — Lab Sample ID: 490-175605-1

Date Collected: 06/05/19 12:40 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 13:15	1
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 13:15	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 13:15	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 13:15	1
Tetrachloroethene	2.5	U U	5.0	0.60	ug/L			06/17/19 13:15	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 13:15	1
trans-1,2-Dichloroethene	2.5	U	5.0	0.65	ug/L			06/17/19 13:15	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 13:15	1
Trichloroethene	2.5	U U	5.0	0.66	ug/L			06/17/19 13:15	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 13:15	1
Vinyl chloride	**1.6**	**J J**	5.0	1.0	ug/L			06/17/19 13:15	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*		*06/17/19 13:15*	*1*
4-Bromofluorobenzene (Surr)	*110*		*85 - 114*		*06/17/19 13:15*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*06/17/19 13:15*	*1*
Toluene-d8 (Surr)	*104*		*89 - 112*		*06/17/19 13:15*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**4.4**		1.0	0.16	mg/L			07/01/19 21:29	1

Client Sample ID: 6MW2511 — Lab Sample ID: 490-175605-2

Date Collected: 06/05/19 14:00 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 14:55	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 14:55	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 14:55	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 14:55	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 14:55	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 14:55	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 14:55	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 14:55	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 14:55	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 14:55	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 14:55	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 14:55	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 14:55	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 14:55	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 14:55	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 14:55	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 14:55	1
2-Butanone (MEK)	**24**		20	2.4	ug/L			06/17/19 14:55	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 14:55	1
2-Hexanone	5.0	U M	20	4.6	ug/L			06/17/19 14:55	1
4-Chlorotoluene	2.5	U M	5.0	1.1	ug/L			06/17/19 14:55	1

Client Sample ID: 6MW2511 — Lab Sample ID: 490-175605-2

Date Collected: 06/05/19 14:00 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U		20	4.6	ug/L			06/17/19 14:55	1
Acetone	**6.3**	**J**		20	3.2	ug/L			06/17/19 14:55	1
Benzene	2.5	U		5.0	0.33	ug/L			06/17/19 14:55	1
Bromobenzene	2.5	U		5.0	0.81	ug/L			06/17/19 14:55	1
Bromochloromethane	2.5	U		5.0	0.77	ug/L			06/17/19 14:55	1
Bromodichloromethane	2.5	U		5.0	0.72	ug/L			06/17/19 14:55	1
Bromoform	2.5	U		5.0	2.1	ug/L			06/17/19 14:55	1
Bromomethane	5.0	U		10	2.7	ug/L			06/17/19 14:55	1
Carbon disulfide	2.5	U		5.0	0.77	ug/L			06/17/19 14:55	1
Carbon tetrachloride	2.5	U		5.0	1.0	ug/L			06/17/19 14:55	1
Chlorobenzene	2.5	U		5.0	0.59	ug/L			06/17/19 14:55	1
Chloroethane	2.5	U		10	1.0	ug/L			06/17/19 14:55	1
Chloroform	2.5	U		5.0	0.77	ug/L			06/17/19 14:55	1
Chloromethane	2.5	U		10	0.85	ug/L			06/17/19 14:55	1
cis-1,2-Dichloroethene	**6.1**		**=**	5.0	0.76	ug/L			06/17/19 14:55	1
cis-1,3-Dichloropropene	5.0	U		5.0	2.6	ug/L			06/17/19 14:55	1
Dibromochloromethane	2.5	U		5.0	0.97	ug/L			06/17/19 14:55	1
Dibromomethane	2.5	U		5.0	0.78	ug/L			06/17/19 14:55	1
Dichlorodifluoromethane	2.5	U		10	1.6	ug/L			06/17/19 14:55	1
Ethylbenzene	2.5	U		5.0	0.44	ug/L			06/17/19 14:55	1
Isopropylbenzene	2.5	U		5.0	1.9	ug/L			06/17/19 14:55	1
m,p-Xylenes	2.5	U		5.0	0.52	ug/L			06/17/19 14:55	1
Methyl tert-butyl ether	2.5	U		5.0	0.79	ug/L			06/17/19 14:55	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			06/17/19 14:55	1
Naphthalene	5.0	U		5.0	3.0	ug/L			06/17/19 14:55	1
n-Butylbenzene	2.5	U		5.0	1.2	ug/L			06/17/19 14:55	1
N-Propylbenzene	2.5	U		5.0	1.4	ug/L			06/17/19 14:55	1
o-Xylene	2.5	U		5.0	0.85	ug/L			06/17/19 14:55	1
p-Isopropyltoluene	2.5	U		5.0	1.3	ug/L			06/17/19 14:55	1
sec-Butylbenzene	2.5	U		5.0	1.1	ug/L			06/17/19 14:55	1
Styrene	2.5	U		5.0	2.0	ug/L			06/17/19 14:55	1
tert-Butylbenzene	2.5	U		5.0	1.1	ug/L			06/17/19 14:55	1
Tetrachloroethene	2.5	U	**U**	5.0	0.60	ug/L			06/17/19 14:55	1
Toluene	5.0	U		5.0	2.4	ug/L			06/17/19 14:55	1
trans-1,2-Dichloroethene	**0.81**	**J**		5.0	0.65	ug/L			06/17/19 14:55	1
trans-1,3-Dichloropropene	2.5	U		5.0	2.1	ug/L			06/17/19 14:55	1
Trichloroethene	2.5	U	**U**	5.0	0.66	ug/L			06/17/19 14:55	1
Trichlorofluoromethane	2.5	U		5.0	1.6	ug/L			06/17/19 14:55	1
Vinyl chloride	**15**		**=**	5.0	1.0	ug/L			06/17/19 14:55	1
Xylenes (total)	5.0	U		10	1.4	ug/L			06/17/19 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*81 - 118*		*06/17/19 14:55*	*1*
4-Bromofluorobenzene (Surr)	*114*		*85 - 114*		*06/17/19 14:55*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 119*		*06/17/19 14:55*	*1*
Toluene-d8 (Surr)	*105*		*89 - 112*		*06/17/19 14:55*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**5.6**		1.0	0.16	mg/L			07/01/19 21:44	1

Client Sample ID: 6MW2611 — Lab Sample ID: 490-175605-3

Date Collected: 06/05/19 14:45 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U		5.0	0.96	ug/L			06/17/19 15:20	1
1,1,1-Trichloroethane	2.5	U		5.0	1.1	ug/L			06/17/19 15:20	1
1,1,2,2-Tetrachloroethane	2.5	U		5.0	2.1	ug/L			06/17/19 15:20	1
1,1,2-Trichloroethane	2.5	U		5.0	0.77	ug/L			06/17/19 15:20	1
1,1-Dichloroethane	2.5	U		5.0	0.56	ug/L			06/17/19 15:20	1
1,1-Dichloroethene	2.5	U		5.0	0.72	ug/L			06/17/19 15:20	1
1,1-Dichloropropene	2.5	U		5.0	0.66	ug/L			06/17/19 15:20	1
1,2,3-Trichlorobenzene	2.5	U		5.0	2.5	ug/L			06/17/19 15:20	1
1,2,3-Trichloropropane	2.5	U		5.0	1.9	ug/L			06/17/19 15:20	1
1,2,4-Trimethylbenzene	2.5	U		5.0	1.1	ug/L			06/17/19 15:20	1
1,2-Dibromo-3-Chloropropane	5.0	U		10	3.3	ug/L			06/17/19 15:20	1
1,2-Dibromoethane	2.5	U		5.0	0.61	ug/L			06/17/19 15:20	1
1,2-Dichloroethane	2.5	U		5.0	1.2	ug/L			06/17/19 15:20	1
1,2-Dichloropropane	2.5	U		5.0	0.54	ug/L			06/17/19 15:20	1
1,3,5-Trimethylbenzene	2.5	U		5.0	1.8	ug/L			06/17/19 15:20	1
1,3-Dichloropropane	2.5	U		5.0	0.66	ug/L			06/17/19 15:20	1
2,2-Dichloropropane	2.5	U		5.0	0.85	ug/L			06/17/19 15:20	1
2-Butanone (MEK)	**23**			20	2.4	ug/L			06/17/19 15:20	1
2-Chlorotoluene	2.5	U		5.0	0.86	ug/L			06/17/19 15:20	1
2-Hexanone	5.0	U		20	4.6	ug/L			06/17/19 15:20	1
4-Chlorotoluene	2.5	U		5.0	1.1	ug/L			06/17/19 15:20	1
4-Methyl-2-pentanone (MIBK)	10	U		20	4.6	ug/L			06/17/19 15:20	1
Acetone	**6.1**	**J**		20	3.2	ug/L			06/17/19 15:20	1
Benzene	2.5	U		5.0	0.33	ug/L			06/17/19 15:20	1
Bromobenzene	2.5	U		5.0	0.81	ug/L			06/17/19 15:20	1
Bromochloromethane	2.5	U		5.0	0.77	ug/L			06/17/19 15:20	1
Bromodichloromethane	2.5	U		5.0	0.72	ug/L			06/17/19 15:20	1
Bromoform	2.5	U		5.0	2.1	ug/L			06/17/19 15:20	1
Bromomethane	5.0	U		10	2.7	ug/L			06/17/19 15:20	1
Carbon disulfide	2.5	U		5.0	0.77	ug/L			06/17/19 15:20	1
Carbon tetrachloride	2.5	U		5.0	1.0	ug/L			06/17/19 15:20	1
Chlorobenzene	2.5	U		5.0	0.59	ug/L			06/17/19 15:20	1
Chloroethane	2.5	U		10	1.0	ug/L			06/17/19 15:20	1
Chloroform	2.5	U		5.0	0.77	ug/L			06/17/19 15:20	1
Chloromethane	2.5	U		10	0.85	ug/L			06/17/19 15:20	1
cis-1,2-Dichloroethene	**1.6**	**J**	J	5.0	0.76	ug/L			06/17/19 15:20	1
cis-1,3-Dichloropropene	5.0	U		5.0	2.6	ug/L			06/17/19 15:20	1
Dibromochloromethane	2.5	U		5.0	0.97	ug/L			06/17/19 15:20	1
Dibromomethane	2.5	U		5.0	0.78	ug/L			06/17/19 15:20	1
Dichlorodifluoromethane	2.5	U		10	1.6	ug/L			06/17/19 15:20	1
Ethylbenzene	2.5	U		5.0	0.44	ug/L			06/17/19 15:20	1
Isopropylbenzene	2.5	U		5.0	1.9	ug/L			06/17/19 15:20	1
m,p-Xylenes	2.5	U		5.0	0.52	ug/L			06/17/19 15:20	1
Methyl tert-butyl ether	2.5	U		5.0	0.79	ug/L			06/17/19 15:20	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			06/17/19 15:20	1
Naphthalene	5.0	U		5.0	3.0	ug/L			06/17/19 15:20	1
n-Butylbenzene	2.5	U		5.0	1.2	ug/L			06/17/19 15:20	1
N-Propylbenzene	2.5	U		5.0	1.4	ug/L			06/17/19 15:20	1
o-Xylene	2.5	U		5.0	0.85	ug/L			06/17/19 15:20	1

Client Sample ID: 6MW2611 — Lab Sample ID: 490-175605-3

Date Collected: 06/05/19 14:45 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U		5.0	1.3	ug/L			06/17/19 15:20	1
sec-Butylbenzene	2.5	U		5.0	1.1	ug/L			06/17/19 15:20	1
Styrene	2.5	U		5.0	2.0	ug/L			06/17/19 15:20	1
tert-Butylbenzene	2.5	U		5.0	1.1	ug/L			06/17/19 15:20	1
Tetrachloroethene	2.5	U	U	5.0	0.60	ug/L			06/17/19 15:20	1
Toluene	5.0	U		5.0	2.4	ug/L			06/17/19 15:20	1
trans-1,2-Dichloroethene	2.5	U		5.0	0.65	ug/L			06/17/19 15:20	1
trans-1,3-Dichloropropene	2.5	U		5.0	2.1	ug/L			06/17/19 15:20	1
Trichloroethene	2.5	U	U	5.0	0.66	ug/L			06/17/19 15:20	1
Trichlorofluoromethane	2.5	U		5.0	1.6	ug/L			06/17/19 15:20	1
Vinyl chloride	**1.7**	**J**	J	5.0	1.0	ug/L			06/17/19 15:20	1
Xylenes (total)	5.0	U		10	1.4	ug/L			06/17/19 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*		*06/17/19 15:20*	*1*
4-Bromofluorobenzene (Surr)	*114*		*85 - 114*		*06/17/19 15:20*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*06/17/19 15:20*	*1*
Toluene-d8 (Surr)	*103*		*89 - 112*		*06/17/19 15:20*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**4.6**		1.0	0.16	mg/L			07/01/19 22:57	1

Client Sample ID: 6MW2311 — Lab Sample ID: 490-175605-4

Date Collected: 06/05/19 15:35 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 15:46	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 15:46	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 15:46	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 15:46	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 15:46	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 15:46	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 15:46	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 15:46	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 15:46	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 15:46	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 15:46	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 15:46	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 15:46	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 15:46	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 15:46	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 15:46	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 15:46	1
2-Butanone (MEK)	**12**	**J**	20	2.4	ug/L			06/17/19 15:46	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 15:46	1
2-Hexanone	5.0	U	20	4.6	ug/L			06/17/19 15:46	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 15:46	1

Client Sample ID: 6MW2311 — Lab Sample ID: 490-175605-4

Date Collected: 06/05/19 15:35 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 15:46	1
Acetone	**5.5**	**J**	20	3.2	ug/L			06/17/19 15:46	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 15:46	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 15:46	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 15:46	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 15:46	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 15:46	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 15:46	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 15:46	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 15:46	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 15:46	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 15:46	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 15:46	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 15:46	1
cis-1,2-Dichloroethene	**3.0**	**J** J	5.0	0.76	ug/L			06/17/19 15:46	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 15:46	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 15:46	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 15:46	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 15:46	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 15:46	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 15:46	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 15:46	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 15:46	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 15:46	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 15:46	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 15:46	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 15:46	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 15:46	1
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 15:46	1
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 15:46	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 15:46	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 15:46	1
Tetrachloroethene	2.5	U U	5.0	0.60	ug/L			06/17/19 15:46	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 15:46	1
trans-1,2-Dichloroethene	2.5	U	5.0	0.65	ug/L			06/17/19 15:46	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 15:46	1
Trichloroethene	2.5	U U	5.0	0.66	ug/L			06/17/19 15:46	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 15:46	1
Vinyl chloride	**1.8**	**J** J	5.0	1.0	ug/L			06/17/19 15:46	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*		*06/17/19 15:46*	*1*
4-Bromofluorobenzene (Surr)	*108*		*85 - 114*		*06/17/19 15:46*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*06/17/19 15:46*	*1*
Toluene-d8 (Surr)	*102*		*89 - 112*		*06/17/19 15:46*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.4**		1.0	0.16	mg/L			07/01/19 23:12	1

Client Sample ID: 6MW2211 — Lab Sample ID: 490-175605-5

Date Collected: 06/05/19 16:35 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 16:11	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 16:11	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 16:11	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 16:11	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 16:11	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 16:11	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 16:11	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 16:11	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 16:11	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 16:11	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 16:11	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 16:11	1
1,2-Dichloroethane	2.5	U M	5.0	1.2	ug/L			06/17/19 16:11	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 16:11	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 16:11	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 16:11	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 16:11	1
2-Butanone (MEK)	**16**	**J**	20	2.4	ug/L			06/17/19 16:11	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 16:11	1
2-Hexanone	**4.8**	**J**	20	4.6	ug/L			06/17/19 16:11	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 16:11	1
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 16:11	1
Acetone	**90**		20	3.2	ug/L			06/17/19 16:11	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 16:11	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 16:11	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 16:11	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 16:11	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 16:11	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 16:11	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 16:11	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 16:11	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 16:11	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 16:11	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 16:11	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 16:11	1
cis-1,2-Dichloroethene	**0.80**	**J** J	5.0	0.76	ug/L			06/17/19 16:11	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 16:11	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 16:11	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 16:11	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 16:11	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 16:11	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 16:11	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 16:11	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 16:11	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 16:11	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 16:11	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 16:11	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 16:11	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 16:11	1

Client Sample ID: 6MW2211 — Lab Sample ID: 490-175605-5

Date Collected: 06/05/19 16:35 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 16:11	1
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 16:11	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 16:11	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 16:11	1
Tetrachloroethene	2.5	U U	5.0	0.60	ug/L			06/17/19 16:11	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 16:11	1
trans-1,2-Dichloroethene	2.5	U M	5.0	0.65	ug/L			06/17/19 16:11	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 16:11	1
Trichloroethene	2.5	U U	5.0	0.66	ug/L			06/17/19 16:11	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 16:11	1
Vinyl chloride	2.0	U U	5.0	1.0	ug/L			06/17/19 16:11	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*		*06/17/19 16:11*	*1*
4-Bromofluorobenzene (Surr)	*108*		*85 - 114*		*06/17/19 16:11*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*06/17/19 16:11*	*1*
Toluene-d8 (Surr)	*104*		*89 - 112*		*06/17/19 16:11*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**61**		2.0	0.31	mg/L			07/03/19 10:24	2

Client Sample ID: 6MW2411 — Lab Sample ID: 490-175605-6

Date Collected: 06/06/19 07:15 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 16:36	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 16:36	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 16:36	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 16:36	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 16:36	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 16:36	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 16:36	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 16:36	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 16:36	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 16:36	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 16:36	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 16:36	1
1,2-Dichloroethane	2.5	U M	5.0	1.2	ug/L			06/17/19 16:36	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 16:36	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 16:36	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 16:36	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 16:36	1
2-Butanone (MEK)	**26**		20	2.4	ug/L			06/17/19 16:36	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 16:36	1
2-Hexanone	5.0	U	20	4.6	ug/L			06/17/19 16:36	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 16:36	1

Client Sample ID: 6MW2411 — Lab Sample ID: 490-175605-6

Date Collected: 06/06/19 07:15 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 16:36	1
Acetone	**6.5**	**J**	20	3.2	ug/L			06/17/19 16:36	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 16:36	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 16:36	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 16:36	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 16:36	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 16:36	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 16:36	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 16:36	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 16:36	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 16:36	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 16:36	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 16:36	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 16:36	1
cis-1,2-Dichloroethene	**3.3**	**J** J	5.0	0.76	ug/L			06/17/19 16:36	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 16:36	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 16:36	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 16:36	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 16:36	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 16:36	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 16:36	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 16:36	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 16:36	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 16:36	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 16:36	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 16:36	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 16:36	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 16:36	1
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 16:36	1
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 16:36	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 16:36	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 16:36	1
Tetrachloroethene	2.5	U	5.0	0.60	ug/L			06/17/19 16:36	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 16:36	1
trans-1,2-Dichloroethene	2.5	U	5.0	0.65	ug/L			06/17/19 16:36	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 16:36	1
Trichloroethene	**1.8**	**J** J	5.0	0.66	ug/L			06/17/19 16:36	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 16:36	1
Vinyl chloride	**2.3**	**J** J	5.0	1.0	ug/L			06/17/19 16:36	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*		*06/17/19 16:36*	*1*
4-Bromofluorobenzene (Surr)	*112*		*85 - 114*		*06/17/19 16:36*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*06/17/19 16:36*	*1*
Toluene-d8 (Surr)	*103*		*89 - 112*		*06/17/19 16:36*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**4.5**		1.0	0.16	mg/L			07/03/19 10:39	1

Client Sample ID: FB07 — Lab Sample ID: 490-175605-7

Date Collected: 06/06/19 06:50 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 17:01	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 17:01	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 17:01	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 17:01	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 17:01	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 17:01	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 17:01	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 17:01	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 17:01	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 17:01	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 17:01	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 17:01	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 17:01	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 17:01	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 17:01	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 17:01	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 17:01	1
2-Butanone (MEK)	**26**		20	2.4	ug/L			06/17/19 17:01	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 17:01	1
2-Hexanone	5.0	U	20	4.6	ug/L			06/17/19 17:01	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 17:01	1
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 17:01	1
Acetone	**10**	**J**	20	3.2	ug/L			06/17/19 17:01	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 17:01	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 17:01	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 17:01	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 17:01	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 17:01	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 17:01	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 17:01	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 17:01	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 17:01	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 17:01	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 17:01	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 17:01	1
cis-1,2-Dichloroethene	2.5	U	5.0	0.76	ug/L			06/17/19 17:01	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 17:01	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 17:01	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 17:01	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 17:01	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 17:01	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 17:01	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 17:01	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 17:01	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 17:01	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 17:01	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 17:01	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 17:01	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 17:01	1

Client Sample ID: FB07 — Lab Sample ID: 490-175605-7

Date Collected: 06/06/19 06:50 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U		5.0	1.3	ug/L			06/17/19 17:01	1
sec-Butylbenzene	2.5	U		5.0	1.1	ug/L			06/17/19 17:01	1
Styrene	2.5	U		5.0	2.0	ug/L			06/17/19 17:01	1
tert-Butylbenzene	2.5	U		5.0	1.1	ug/L			06/17/19 17:01	1
Tetrachloroethene	2.5	U	U	5.0	0.60	ug/L			06/17/19 17:01	1
Toluene	5.0	U		5.0	2.4	ug/L			06/17/19 17:01	1
trans-1,2-Dichloroethene	2.5	U		5.0	0.65	ug/L			06/17/19 17:01	1
trans-1,3-Dichloropropene	2.5	U		5.0	2.1	ug/L			06/17/19 17:01	1
Trichloroethene	2.5	U	U	5.0	0.66	ug/L			06/17/19 17:01	1
Trichlorofluoromethane	2.5	U		5.0	1.6	ug/L			06/17/19 17:01	1
Vinyl chloride	2.0	U	U	5.0	1.0	ug/L			06/17/19 17:01	1
Xylenes (total)	5.0	U		10	1.4	ug/L			06/17/19 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*		*06/17/19 17:01*	*1*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*		*06/17/19 17:01*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*06/17/19 17:01*	*1*
Toluene-d8 (Surr)	*105*		*89 - 112*		*06/17/19 17:01*	*1*

Client Sample ID: TB — Lab Sample ID: 490-175605-8

Date Collected: 06/05/19 12:40 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 17:26	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 17:26	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 17:26	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 17:26	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 17:26	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 17:26	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 17:26	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 17:26	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 17:26	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 17:26	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 17:26	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 17:26	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 17:26	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 17:26	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 17:26	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 17:26	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 17:26	1
2-Butanone (MEK)	**14**	**J**	20	2.4	ug/L			06/17/19 17:26	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 17:26	1
2-Hexanone	5.0	U	20	4.6	ug/L			06/17/19 17:26	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 17:26	1
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 17:26	1
Acetone	**3.3**	**J**	20	3.2	ug/L			06/17/19 17:26	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 17:26	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 17:26	1

Client Sample ID: TB
Date Collected: 06/05/19 12:40
Date Received: 06/08/19 09:45

Lab Sample ID: 490-175605-8
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	2.5 U		5.0	0.77	ug/L			06/17/19 17:26	1
Bromodichloromethane	2.5 U		5.0	0.72	ug/L			06/17/19 17:26	1
Bromoform	2.5 U		5.0	2.1	ug/L			06/17/19 17:26	1
Bromomethane	5.0 U		10	2.7	ug/L			06/17/19 17:26	1
Carbon disulfide	2.5 U		5.0	0.77	ug/L			06/17/19 17:26	1
Carbon tetrachloride	2.5 U		5.0	1.0	ug/L			06/17/19 17:26	1
Chlorobenzene	2.5 U		5.0	0.59	ug/L			06/17/19 17:26	1
Chloroethane	2.5 U		10	1.0	ug/L			06/17/19 17:26	1
Chloroform	2.5 U		5.0	0.77	ug/L			06/17/19 17:26	1
Chloromethane	2.5 U		10	0.85	ug/L			06/17/19 17:26	1
cis-1,2-Dichloroethene	2.5 U	U	5.0	0.76	ug/L			06/17/19 17:26	1
cis-1,3-Dichloropropene	5.0 U		5.0	2.6	ug/L			06/17/19 17:26	1
Dibromochloromethane	2.5 U		5.0	0.97	ug/L			06/17/19 17:26	1
Dibromomethane	2.5 U		5.0	0.78	ug/L			06/17/19 17:26	1
Dichlorodifluoromethane	2.5 U		10	1.6	ug/L			06/17/19 17:26	1
Ethylbenzene	2.5 U		5.0	0.44	ug/L			06/17/19 17:26	1
Isopropylbenzene	2.5 U		5.0	1.9	ug/L			06/17/19 17:26	1
m,p-Xylenes	2.5 U		5.0	0.52	ug/L			06/17/19 17:26	1
Methyl tert-butyl ether	2.5 U		5.0	0.79	ug/L			06/17/19 17:26	1
Methylene Chloride	5.0 U		7.5	1.7	ug/L			06/17/19 17:26	1
Naphthalene	5.0 U		5.0	3.0	ug/L			06/17/19 17:26	1
n-Butylbenzene	2.5 U		5.0	1.2	ug/L			06/17/19 17:26	1
N-Propylbenzene	2.5 U		5.0	1.4	ug/L			06/17/19 17:26	1
o-Xylene	2.5 U		5.0	0.85	ug/L			06/17/19 17:26	1
p-Isopropyltoluene	2.5 U		5.0	1.3	ug/L			06/17/19 17:26	1
sec-Butylbenzene	2.5 U		5.0	1.1	ug/L			06/17/19 17:26	1
Styrene	2.5 U		5.0	2.0	ug/L			06/17/19 17:26	1
tert-Butylbenzene	2.5 U		5.0	1.1	ug/L			06/17/19 17:26	1
Tetrachloroethene	2.5 U	U	5.0	0.60	ug/L			06/17/19 17:26	1
Toluene	5.0 U		5.0	2.4	ug/L			06/17/19 17:26	1
trans-1,2-Dichloroethene	2.5 U		5.0	0.65	ug/L			06/17/19 17:26	1
trans-1,3-Dichloropropene	2.5 U		5.0	2.1	ug/L			06/17/19 17:26	1
Trichloroethene	2.5 U	U	5.0	0.66	ug/L			06/17/19 17:26	1
Trichlorofluoromethane	2.5 U		5.0	1.6	ug/L			06/17/19 17:26	1
Vinyl chloride	2.0 U	U	5.0	1.0	ug/L			06/17/19 17:26	1
Xylenes (total)	5.0 U		10	1.4	ug/L			06/17/19 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*		*06/17/19 17:26*	*1*
4-Bromofluorobenzene (Surr)	*110*		*85 - 114*		*06/17/19 17:26*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*06/17/19 17:26*	*1*
Toluene-d8 (Surr)	*105*		*89 - 112*		*06/17/19 17:26*	*1*

Client Sample ID: 6MW2011D
Date Collected: 06/05/19 12:40
Date Received: 06/08/19 09:45

Lab Sample ID: 490-175605-9
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5 U		5.0	0.96	ug/L			06/17/19 17:51	1

Client Sample ID: 6MW2011D
Date Collected: 06/05/19 12:40
Date Received: 06/08/19 09:45

Lab Sample ID: 490-175605-9
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 17:51	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 17:51	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 17:51	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 17:51	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 17:51	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 17:51	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 17:51	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 17:51	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 17:51	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 17:51	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 17:51	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 17:51	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 17:51	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 17:51	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 17:51	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 17:51	1
2-Butanone (MEK)	**18**	**J**	20	2.4	ug/L			06/17/19 17:51	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 17:51	1
2-Hexanone	5.0	U	20	4.6	ug/L			06/17/19 17:51	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 17:51	1
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 17:51	1
Acetone	**10**	**J**	20	3.2	ug/L			06/17/19 17:51	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 17:51	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 17:51	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 17:51	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 17:51	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 17:51	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 17:51	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 17:51	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 17:51	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 17:51	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 17:51	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 17:51	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 17:51	1
cis-1,2-Dichloroethene	**2.2**	**J** J	5.0	0.76	ug/L			06/17/19 17:51	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 17:51	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 17:51	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 17:51	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 17:51	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 17:51	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 17:51	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 17:51	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 17:51	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 17:51	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 17:51	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 17:51	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 17:51	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 17:51	1
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 17:51	1

Client Sample ID: 6MW2011D — Lab Sample ID: 490-175605-9

Date Collected: 06/05/19 12:40 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	2.5	U		5.0	1.1	ug/L			06/17/19 17:51	1
Styrene	2.5	U		5.0	2.0	ug/L			06/17/19 17:51	1
tert-Butylbenzene	2.5	U		5.0	1.1	ug/L			06/17/19 17:51	1
Tetrachloroethene	2.5	U	U	5.0	0.60	ug/L			06/17/19 17:51	1
Toluene	5.0	U		5.0	2.4	ug/L			06/17/19 17:51	1
trans-1,2-Dichloroethene	2.5	U		5.0	0.65	ug/L			06/17/19 17:51	1
trans-1,3-Dichloropropene	2.5	U		5.0	2.1	ug/L			06/17/19 17:51	1
Trichloroethene	2.5	U	U	5.0	0.66	ug/L			06/17/19 17:51	1
Trichlorofluoromethane	2.5	U		5.0	1.6	ug/L			06/17/19 17:51	1
Vinyl chloride	**1.5**	**J**	J	5.0	1.0	ug/L			06/17/19 17:51	1
Xylenes (total)	5.0	U		10	1.4	ug/L			06/17/19 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*81 - 118*		*06/17/19 17:51*	*1*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*		*06/17/19 17:51*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*06/17/19 17:51*	*1*
Toluene-d8 (Surr)	*107*		*89 - 112*		*06/17/19 17:51*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**4.7**		1.0	0.16	mg/L			07/01/19 23:44	1

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ANALYTICAL REPORT

Job Number: 490-175605-1

Job Description: Stratton ANGB, NY (Schenectady)

For:
Leidos, Inc.
301 Laboratory Road
Leidos SSC-AP
LOC #47, MS 2113-03
Oak Ridge, TN 37830

Attention: Mr. Michael Poligone



Approved for release.
Donna R Rydberg
Senior Project Manager
7/29/2019 11:32 AM

Donna R Rydberg, Senior Project Manager
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07/29/2019
Revision: 1

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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Definitions/Glossary

Client: Leidos, Inc. Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Leidos, Inc.

Project: Stratton ANGB, NY (Schenectady)

Report Number: 490-175605-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

REVISED REPORT 7/29/19
The form VIII data was not pulling into the report. The lab went back and broke the link and then relinked to the samples so the forms would regenerate. Data is now included in the report.

RECEIPT
The samples were received on 6/8/2019 at 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.7º C, 2.0º C and 5.3º C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)
Samples 6MW2011 (490-175605-1), 6MW2511 (490-175605-2), 6MW2611 (490-175605-3), 6MW2311 (490-175605-4), 6MW2211 (490-175605-5), 6MW2411 (490-175605-6), FB07 (490-175605-7), TB (490-175605-8) and 6MW2011D (490-175605-9) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with 8260C_DOD5. The samples were analyzed on 06/17/2019.

Chloroethane failed the recovery criteria low for the MS and MSD of sample 6MW2011MS (490-175605-1) in batch 160-431879. Refer to the QC report for details.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with analytical batch 160-431879: Acetone, 2-Butanone. A low level CCV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit are qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON
Samples 6MW2011 (490-175605-1), 6MW2511 (490-175605-2), 6MW2611 (490-175605-3), 6MW2311 (490-175605-4), 6MW2211 (490-175605-5), 6MW2411 (490-175605-6) and 6MW2011D (490-175605-9) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 07/01/2019 and 07/03/2019.

Sample 6MW2211 (490-175605-5)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Leidos, Inc.
Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

Client Sample ID: 6MW2011 — Lab Sample ID: 490-175605-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	29		20	2.4	ug/L	1		8260C DOD	Total/NA
Acetone	10	J	20	3.2	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	2.5	J	5.0	0.76	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	1.6	J	5.0	1.0	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	4.4		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2511 — Lab Sample ID: 490-175605-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	24		20	2.4	ug/L	1		8260C DOD	Total/NA
Acetone	6.3	J	20	3.2	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	6.1		5.0	0.76	ug/L	1		8260C DOD	Total/NA
trans-1,2-Dichloroethene	0.81	J	5.0	0.65	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	15		5.0	1.0	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	5.6		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2611 — Lab Sample ID: 490-175605-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	23		20	2.4	ug/L	1		8260C DOD	Total/NA
Acetone	6.1	J	20	3.2	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	1.6	J	5.0	0.76	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	1.7	J	5.0	1.0	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	4.6		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2311 — Lab Sample ID: 490-175605-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	12	J	20	2.4	ug/L	1		8260C DOD	Total/NA
Acetone	5.5	J	20	3.2	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	3.0	J	5.0	0.76	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	1.8	J	5.0	1.0	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	3.4		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2211 — Lab Sample ID: 490-175605-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	16	J	20	2.4	ug/L	1		8260C DOD	Total/NA
2-Hexanone	4.8	J	20	4.6	ug/L	1		8260C DOD	Total/NA
Acetone	90		20	3.2	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	0.80	J	5.0	0.76	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	61		2.0	0.31	mg/L	2		9060A	Total/NA

Client Sample ID: 6MW2411 — Lab Sample ID: 490-175605-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	26		20	2.4	ug/L	1		8260C DOD	Total/NA
Acetone	6.5	J	20	3.2	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	3.3	J	5.0	0.76	ug/L	1		8260C DOD	Total/NA
Trichloroethene	1.8	J	5.0	0.66	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	2.3	J	5.0	1.0	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	4.5		1.0	0.16	mg/L	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Leidos, Inc.
Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

Client Sample ID: FB07
Lab Sample ID: 490-175605-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	26		20	2.4	ug/L	1		8260C DOD	Total/NA
Acetone	10	J	20	3.2	ug/L	1		8260C DOD	Total/NA

Client Sample ID: TB
Lab Sample ID: 490-175605-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	14	J	20	2.4	ug/L	1		8260C DOD	Total/NA
Acetone	3.3	J	20	3.2	ug/L	1		8260C DOD	Total/NA

Client Sample ID: 6MW2011D
Lab Sample ID: 490-175605-9

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	18	J	20	2.4	ug/L	1		8260C DOD	Total/NA
Acetone	10	J	20	3.2	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	2.2	J	5.0	0.76	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	1.5	J	5.0	1.0	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	4.7		1.0	0.16	mg/L	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 6MW2011 — Lab Sample ID: 490-175605-1

Date Collected: 06/05/19 12:40 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 13:15	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 13:15	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 13:15	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 13:15	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 13:15	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 13:15	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 13:15	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 13:15	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 13:15	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 13:15	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 13:15	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 13:15	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 13:15	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 13:15	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 13:15	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 13:15	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 13:15	1
2-Butanone (MEK)	**29**		20	2.4	ug/L			06/17/19 13:15	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 13:15	1
2-Hexanone	5.0	U M	20	4.6	ug/L			06/17/19 13:15	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 13:15	1
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 13:15	1
Acetone	**10**	**J**	20	3.2	ug/L			06/17/19 13:15	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 13:15	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 13:15	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 13:15	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 13:15	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 13:15	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 13:15	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 13:15	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 13:15	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 13:15	1
Chloroethane	2.5	U J1	10	1.0	ug/L			06/17/19 13:15	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 13:15	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 13:15	1
cis-1,2-Dichloroethene	**2.5**	**J**	5.0	0.76	ug/L			06/17/19 13:15	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 13:15	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 13:15	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 13:15	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 13:15	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 13:15	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 13:15	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 13:15	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 13:15	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 13:15	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 13:15	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 13:15	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 13:15	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 13:15	1

Client Sample ID: 6MW2011 — Lab Sample ID: 490-175605-1

Date Collected: 06/05/19 12:40 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 13:15	1
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 13:15	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 13:15	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 13:15	1
Tetrachloroethene	2.5	U	5.0	0.60	ug/L			06/17/19 13:15	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 13:15	1
trans-1,2-Dichloroethene	2.5	U	5.0	0.65	ug/L			06/17/19 13:15	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 13:15	1
Trichloroethene	2.5	U	5.0	0.66	ug/L			06/17/19 13:15	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 13:15	1
Vinyl chloride	**1.6**	**J**	5.0	1.0	ug/L			06/17/19 13:15	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*		*06/17/19 13:15*	*1*
4-Bromofluorobenzene (Surr)	*110*		*85 - 114*		*06/17/19 13:15*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*06/17/19 13:15*	*1*
Toluene-d8 (Surr)	*104*		*89 - 112*		*06/17/19 13:15*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**4.4**		1.0	0.16	mg/L			07/01/19 21:29	1

Client Sample ID: 6MW2511 — Lab Sample ID: 490-175605-2

Date Collected: 06/05/19 14:00 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 14:55	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 14:55	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 14:55	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 14:55	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 14:55	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 14:55	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 14:55	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 14:55	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 14:55	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 14:55	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 14:55	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 14:55	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 14:55	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 14:55	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 14:55	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 14:55	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 14:55	1
2-Butanone (MEK)	**24**		20	2.4	ug/L			06/17/19 14:55	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 14:55	1
2-Hexanone	5.0	U M	20	4.6	ug/L			06/17/19 14:55	1
4-Chlorotoluene	2.5	U M	5.0	1.1	ug/L			06/17/19 14:55	1

Client Sample ID: 6MW2511 — Lab Sample ID: 490-175605-2

Date Collected: 06/05/19 14:00 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 14:55	1
Acetone	**6.3**	**J**	20	3.2	ug/L			06/17/19 14:55	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 14:55	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 14:55	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 14:55	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 14:55	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 14:55	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 14:55	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 14:55	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 14:55	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 14:55	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 14:55	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 14:55	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 14:55	1
cis-1,2-Dichloroethene	**6.1**		5.0	0.76	ug/L			06/17/19 14:55	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 14:55	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 14:55	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 14:55	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 14:55	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 14:55	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 14:55	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 14:55	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 14:55	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 14:55	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 14:55	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 14:55	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 14:55	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 14:55	1
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 14:55	1
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 14:55	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 14:55	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 14:55	1
Tetrachloroethene	2.5	U	5.0	0.60	ug/L			06/17/19 14:55	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 14:55	1
trans-1,2-Dichloroethene	**0.81**	**J**	5.0	0.65	ug/L			06/17/19 14:55	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 14:55	1
Trichloroethene	2.5	U	5.0	0.66	ug/L			06/17/19 14:55	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 14:55	1
Vinyl chloride	**15**		5.0	1.0	ug/L			06/17/19 14:55	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*81 - 118*		*06/17/19 14:55*	*1*
4-Bromofluorobenzene (Surr)	*114*		*85 - 114*		*06/17/19 14:55*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 119*		*06/17/19 14:55*	*1*
Toluene-d8 (Surr)	*105*		*89 - 112*		*06/17/19 14:55*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**5.6**		1.0	0.16	mg/L			07/01/19 21:44	1

Client Sample ID: 6MW2611 — Lab Sample ID: 490-175605-3

Date Collected: 06/05/19 14:45 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 15:20	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 15:20	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 15:20	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 15:20	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 15:20	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 15:20	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 15:20	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 15:20	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 15:20	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 15:20	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 15:20	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 15:20	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 15:20	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 15:20	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 15:20	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 15:20	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 15:20	1
2-Butanone (MEK)	**23**		20	2.4	ug/L			06/17/19 15:20	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 15:20	1
2-Hexanone	5.0	U	20	4.6	ug/L			06/17/19 15:20	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 15:20	1
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 15:20	1
Acetone	**6.1**	**J**	20	3.2	ug/L			06/17/19 15:20	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 15:20	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 15:20	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 15:20	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 15:20	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 15:20	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 15:20	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 15:20	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 15:20	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 15:20	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 15:20	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 15:20	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 15:20	1
cis-1,2-Dichloroethene	**1.6**	**J**	5.0	0.76	ug/L			06/17/19 15:20	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 15:20	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 15:20	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 15:20	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 15:20	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 15:20	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 15:20	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 15:20	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 15:20	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 15:20	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 15:20	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 15:20	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 15:20	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 15:20	1

Client Sample ID: 6MW2611 — Lab Sample ID: 490-175605-3

Date Collected: 06/05/19 14:45 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 15:20	1
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 15:20	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 15:20	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 15:20	1
Tetrachloroethene	2.5	U	5.0	0.60	ug/L			06/17/19 15:20	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 15:20	1
trans-1,2-Dichloroethene	2.5	U	5.0	0.65	ug/L			06/17/19 15:20	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 15:20	1
Trichloroethene	2.5	U	5.0	0.66	ug/L			06/17/19 15:20	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 15:20	1
Vinyl chloride	**1.7**	**J**	5.0	1.0	ug/L			06/17/19 15:20	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*		*06/17/19 15:20*	*1*
4-Bromofluorobenzene (Surr)	*114*		*85 - 114*		*06/17/19 15:20*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*06/17/19 15:20*	*1*
Toluene-d8 (Surr)	*103*		*89 - 112*		*06/17/19 15:20*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**4.6**		1.0	0.16	mg/L			07/01/19 22:57	1

Client Sample ID: 6MW2311 — Lab Sample ID: 490-175605-4

Date Collected: 06/05/19 15:35 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 15:46	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 15:46	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 15:46	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 15:46	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 15:46	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 15:46	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 15:46	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 15:46	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 15:46	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 15:46	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 15:46	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 15:46	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 15:46	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 15:46	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 15:46	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 15:46	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 15:46	1
2-Butanone (MEK)	**12**	**J**	20	2.4	ug/L			06/17/19 15:46	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 15:46	1
2-Hexanone	5.0	U	20	4.6	ug/L			06/17/19 15:46	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 15:46	1

Client Sample ID: 6MW2311 — Lab Sample ID: 490-175605-4

Date Collected: 06/05/19 15:35 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 15:46	1
Acetone	**5.5**	**J**	20	3.2	ug/L			06/17/19 15:46	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 15:46	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 15:46	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 15:46	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 15:46	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 15:46	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 15:46	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 15:46	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 15:46	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 15:46	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 15:46	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 15:46	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 15:46	1
cis-1,2-Dichloroethene	**3.0**	**J**	5.0	0.76	ug/L			06/17/19 15:46	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 15:46	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 15:46	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 15:46	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 15:46	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 15:46	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 15:46	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 15:46	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 15:46	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 15:46	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 15:46	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 15:46	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 15:46	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 15:46	1
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 15:46	1
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 15:46	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 15:46	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 15:46	1
Tetrachloroethene	2.5	U	5.0	0.60	ug/L			06/17/19 15:46	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 15:46	1
trans-1,2-Dichloroethene	2.5	U	5.0	0.65	ug/L			06/17/19 15:46	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 15:46	1
Trichloroethene	2.5	U	5.0	0.66	ug/L			06/17/19 15:46	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 15:46	1
Vinyl chloride	**1.8**	**J**	5.0	1.0	ug/L			06/17/19 15:46	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*		*06/17/19 15:46*	*1*
4-Bromofluorobenzene (Surr)	*108*		*85 - 114*		*06/17/19 15:46*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*06/17/19 15:46*	*1*
Toluene-d8 (Surr)	*102*		*89 - 112*		*06/17/19 15:46*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.4**		1.0	0.16	mg/L			07/01/19 23:12	1

Client Sample ID: 6MW2211 — Lab Sample ID: 490-175605-5

Date Collected: 06/05/19 16:35 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 16:11	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 16:11	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 16:11	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 16:11	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 16:11	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 16:11	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 16:11	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 16:11	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 16:11	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 16:11	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 16:11	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 16:11	1
1,2-Dichloroethane	2.5	U M	5.0	1.2	ug/L			06/17/19 16:11	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 16:11	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 16:11	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 16:11	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 16:11	1
2-Butanone (MEK)	**16**	**J**	20	2.4	ug/L			06/17/19 16:11	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 16:11	1
2-Hexanone	**4.8**	**J**	20	4.6	ug/L			06/17/19 16:11	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 16:11	1
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 16:11	1
Acetone	**90**		20	3.2	ug/L			06/17/19 16:11	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 16:11	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 16:11	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 16:11	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 16:11	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 16:11	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 16:11	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 16:11	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 16:11	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 16:11	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 16:11	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 16:11	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 16:11	1
cis-1,2-Dichloroethene	**0.80**	**J**	5.0	0.76	ug/L			06/17/19 16:11	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 16:11	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 16:11	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 16:11	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 16:11	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 16:11	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 16:11	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 16:11	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 16:11	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 16:11	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 16:11	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 16:11	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 16:11	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 16:11	1

Client Sample ID: 6MW2211 — Lab Sample ID: 490-175605-5

Date Collected: 06/05/19 16:35 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 16:11	1
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 16:11	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 16:11	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 16:11	1
Tetrachloroethene	2.5	U	5.0	0.60	ug/L			06/17/19 16:11	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 16:11	1
trans-1,2-Dichloroethene	2.5	U M	5.0	0.65	ug/L			06/17/19 16:11	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 16:11	1
Trichloroethene	2.5	U	5.0	0.66	ug/L			06/17/19 16:11	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 16:11	1
Vinyl chloride	2.0	U	5.0	1.0	ug/L			06/17/19 16:11	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*		*06/17/19 16:11*	*1*
4-Bromofluorobenzene (Surr)	*108*		*85 - 114*		*06/17/19 16:11*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*06/17/19 16:11*	*1*
Toluene-d8 (Surr)	*104*		*89 - 112*		*06/17/19 16:11*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**61**		2.0	0.31	mg/L			07/03/19 10:24	2

Client Sample ID: 6MW2411 — Lab Sample ID: 490-175605-6

Date Collected: 06/06/19 07:15 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 16:36	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 16:36	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 16:36	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 16:36	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 16:36	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 16:36	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 16:36	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 16:36	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 16:36	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 16:36	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 16:36	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 16:36	1
1,2-Dichloroethane	2.5	U M	5.0	1.2	ug/L			06/17/19 16:36	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 16:36	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 16:36	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 16:36	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 16:36	1
2-Butanone (MEK)	**26**		20	2.4	ug/L			06/17/19 16:36	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 16:36	1
2-Hexanone	5.0	U	20	4.6	ug/L			06/17/19 16:36	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 16:36	1

Client Sample ID: 6MW2411 — Lab Sample ID: 490-175605-6

Date Collected: 06/06/19 07:15 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 16:36	1
Acetone	**6.5**	**J**	20	3.2	ug/L			06/17/19 16:36	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 16:36	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 16:36	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 16:36	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 16:36	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 16:36	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 16:36	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 16:36	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 16:36	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 16:36	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 16:36	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 16:36	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 16:36	1
cis-1,2-Dichloroethene	**3.3**	**J**	5.0	0.76	ug/L			06/17/19 16:36	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 16:36	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 16:36	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 16:36	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 16:36	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 16:36	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 16:36	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 16:36	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 16:36	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 16:36	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 16:36	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 16:36	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 16:36	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 16:36	1
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 16:36	1
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 16:36	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 16:36	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 16:36	1
Tetrachloroethene	2.5	U	5.0	0.60	ug/L			06/17/19 16:36	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 16:36	1
trans-1,2-Dichloroethene	2.5	U	5.0	0.65	ug/L			06/17/19 16:36	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 16:36	1
Trichloroethene	**1.8**	**J**	5.0	0.66	ug/L			06/17/19 16:36	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 16:36	1
Vinyl chloride	**2.3**	**J**	5.0	1.0	ug/L			06/17/19 16:36	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*		*06/17/19 16:36*	*1*
4-Bromofluorobenzene (Surr)	*112*		*85 - 114*		*06/17/19 16:36*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*06/17/19 16:36*	*1*
Toluene-d8 (Surr)	*103*		*89 - 112*		*06/17/19 16:36*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**4.5**		1.0	0.16	mg/L			07/03/19 10:39	1

Client Sample ID: FB07 — Lab Sample ID: 490-175605-7

Date Collected: 06/06/19 06:50 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 17:01	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 17:01	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 17:01	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 17:01	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 17:01	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 17:01	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 17:01	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 17:01	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 17:01	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 17:01	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 17:01	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 17:01	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 17:01	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 17:01	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 17:01	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 17:01	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 17:01	1
2-Butanone (MEK)	**26**		20	2.4	ug/L			06/17/19 17:01	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 17:01	1
2-Hexanone	5.0	U	20	4.6	ug/L			06/17/19 17:01	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 17:01	1
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 17:01	1
Acetone	**10**	**J**	20	3.2	ug/L			06/17/19 17:01	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 17:01	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 17:01	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 17:01	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 17:01	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 17:01	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 17:01	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 17:01	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 17:01	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 17:01	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 17:01	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 17:01	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 17:01	1
cis-1,2-Dichloroethene	2.5	U	5.0	0.76	ug/L			06/17/19 17:01	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 17:01	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 17:01	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 17:01	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 17:01	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 17:01	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 17:01	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 17:01	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 17:01	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 17:01	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 17:01	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 17:01	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 17:01	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 17:01	1

Client Sample ID: FB07 — Lab Sample ID: 490-175605-7

Date Collected: 06/06/19 06:50 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 17:01	1
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 17:01	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 17:01	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 17:01	1
Tetrachloroethene	2.5	U	5.0	0.60	ug/L			06/17/19 17:01	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 17:01	1
trans-1,2-Dichloroethene	2.5	U	5.0	0.65	ug/L			06/17/19 17:01	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 17:01	1
Trichloroethene	2.5	U	5.0	0.66	ug/L			06/17/19 17:01	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 17:01	1
Vinyl chloride	2.0	U	5.0	1.0	ug/L			06/17/19 17:01	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*		*06/17/19 17:01*	*1*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*		*06/17/19 17:01*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*06/17/19 17:01*	*1*
Toluene-d8 (Surr)	*105*		*89 - 112*		*06/17/19 17:01*	*1*

Client Sample ID: TB — Lab Sample ID: 490-175605-8

Date Collected: 06/05/19 12:40 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 17:26	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 17:26	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 17:26	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 17:26	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 17:26	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 17:26	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 17:26	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 17:26	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 17:26	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 17:26	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 17:26	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 17:26	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 17:26	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 17:26	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 17:26	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 17:26	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 17:26	1
2-Butanone (MEK)	**14**	**J**	20	2.4	ug/L			06/17/19 17:26	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 17:26	1
2-Hexanone	5.0	U	20	4.6	ug/L			06/17/19 17:26	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 17:26	1
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 17:26	1
Acetone	**3.3**	**J**	20	3.2	ug/L			06/17/19 17:26	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 17:26	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 17:26	1

Client Sample ID: TB
Date Collected: 06/05/19 12:40
Date Received: 06/08/19 09:45

Lab Sample ID: 490-175605-8
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 17:26	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 17:26	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 17:26	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 17:26	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 17:26	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 17:26	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 17:26	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 17:26	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 17:26	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 17:26	1
cis-1,2-Dichloroethene	2.5	U	5.0	0.76	ug/L			06/17/19 17:26	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 17:26	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 17:26	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 17:26	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 17:26	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 17:26	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 17:26	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 17:26	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 17:26	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 17:26	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 17:26	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 17:26	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 17:26	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 17:26	1
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 17:26	1
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 17:26	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 17:26	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 17:26	1
Tetrachloroethene	2.5	U	5.0	0.60	ug/L			06/17/19 17:26	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 17:26	1
trans-1,2-Dichloroethene	2.5	U	5.0	0.65	ug/L			06/17/19 17:26	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 17:26	1
Trichloroethene	2.5	U	5.0	0.66	ug/L			06/17/19 17:26	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 17:26	1
Vinyl chloride	2.0	U	5.0	1.0	ug/L			06/17/19 17:26	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*		*06/17/19 17:26*	*1*
4-Bromofluorobenzene (Surr)	*110*		*85 - 114*		*06/17/19 17:26*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*06/17/19 17:26*	*1*
Toluene-d8 (Surr)	*105*		*89 - 112*		*06/17/19 17:26*	*1*

Client Sample ID: 6MW2011D
Date Collected: 06/05/19 12:40
Date Received: 06/08/19 09:45

Lab Sample ID: 490-175605-9
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 17:51	1

Client Sample ID: 6MW2011D
Date Collected: 06/05/19 12:40
Date Received: 06/08/19 09:45

Lab Sample ID: 490-175605-9
Matrix: Water

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 17:51	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 17:51	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 17:51	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 17:51	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 17:51	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 17:51	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 17:51	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 17:51	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 17:51	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 17:51	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 17:51	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 17:51	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 17:51	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 17:51	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 17:51	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 17:51	1
2-Butanone (MEK)	**18**	**J**	20	2.4	ug/L			06/17/19 17:51	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 17:51	1
2-Hexanone	5.0	U	20	4.6	ug/L			06/17/19 17:51	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 17:51	1
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 17:51	1
Acetone	**10**	**J**	20	3.2	ug/L			06/17/19 17:51	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 17:51	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 17:51	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 17:51	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 17:51	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 17:51	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 17:51	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 17:51	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 17:51	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 17:51	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 17:51	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 17:51	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 17:51	1
cis-1,2-Dichloroethene	**2.2**	**J**	5.0	0.76	ug/L			06/17/19 17:51	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 17:51	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 17:51	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 17:51	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 17:51	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 17:51	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 17:51	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 17:51	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 17:51	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 17:51	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 17:51	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 17:51	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 17:51	1
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 17:51	1
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 17:51	1

Client Sample ID: 6MW2011D — Lab Sample ID: 490-175605-9

Date Collected: 06/05/19 12:40 — **Matrix: Water**
Date Received: 06/08/19 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 17:51	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 17:51	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 17:51	1
Tetrachloroethene	2.5	U	5.0	0.60	ug/L			06/17/19 17:51	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 17:51	1
trans-1,2-Dichloroethene	2.5	U	5.0	0.65	ug/L			06/17/19 17:51	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 17:51	1
Trichloroethene	2.5	U	5.0	0.66	ug/L			06/17/19 17:51	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 17:51	1
Vinyl chloride	**1.5**	**J**	5.0	1.0	ug/L			06/17/19 17:51	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*81 - 118*		*06/17/19 17:51*	*1*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*		*06/17/19 17:51*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*06/17/19 17:51*	*1*
Toluene-d8 (Surr)	*107*		*89 - 112*		*06/17/19 17:51*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**4.7**		1.0	0.16	mg/L			07/01/19 23:44	1

Default Detection Limits

Client: Leidos, Inc. Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	LOQ	DL	Units
1,1,1,2-Tetrachloroethane	5.0	0.96	ug/L
1,1,1-Trichloroethane	5.0	1.1	ug/L
1,1,2,2-Tetrachloroethane	5.0	2.1	ug/L
1,1,2-Trichloroethane	5.0	0.77	ug/L
1,1-Dichloroethane	5.0	0.56	ug/L
1,1-Dichloroethene	5.0	0.72	ug/L
1,1-Dichloropropene	5.0	0.66	ug/L
1,2,3-Trichlorobenzene	5.0	2.5	ug/L
1,2,3-Trichloropropane	5.0	1.9	ug/L
1,2,4-Trimethylbenzene	5.0	1.1	ug/L
1,2-Dibromo-3-Chloropropane	10	3.3	ug/L
1,2-Dibromoethane	5.0	0.61	ug/L
1,2-Dichloroethane	5.0	1.2	ug/L
1,2-Dichloropropane	5.0	0.54	ug/L
1,3,5-Trimethylbenzene	5.0	1.8	ug/L
1,3-Dichloropropane	5.0	0.66	ug/L
2,2-Dichloropropane	5.0	0.85	ug/L
2-Butanone (MEK)	20	2.4	ug/L
2-Chlorotoluene	5.0	0.86	ug/L
2-Hexanone	20	4.6	ug/L
4-Chlorotoluene	5.0	1.1	ug/L
4-Methyl-2-pentanone (MIBK)	20	4.6	ug/L
Acetone	20	3.2	ug/L
Benzene	5.0	0.33	ug/L
Bromobenzene	5.0	0.81	ug/L
Bromochloromethane	5.0	0.77	ug/L
Bromodichloromethane	5.0	0.72	ug/L
Bromoform	5.0	2.1	ug/L
Bromomethane	10	2.7	ug/L
Carbon disulfide	5.0	0.77	ug/L
Carbon tetrachloride	5.0	1.0	ug/L
Chlorobenzene	5.0	0.59	ug/L
Chloroethane	10	1.0	ug/L
Chloroform	5.0	0.77	ug/L
Chloromethane	10	0.85	ug/L
cis-1,2-Dichloroethene	5.0	0.76	ug/L
cis-1,3-Dichloropropene	5.0	2.6	ug/L
Dibromochloromethane	5.0	0.97	ug/L
Dibromomethane	5.0	0.78	ug/L
Dichlorodifluoromethane	10	1.6	ug/L
Ethylbenzene	5.0	0.44	ug/L
Isopropylbenzene	5.0	1.9	ug/L
m,p-Xylenes	5.0	0.52	ug/L
Methyl tert-butyl ether	5.0	0.79	ug/L
Methylene Chloride	7.5	1.7	ug/L
Naphthalene	5.0	3.0	ug/L
n-Butylbenzene	5.0	1.2	ug/L
N-Propylbenzene	5.0	1.4	ug/L
o-Xylene	5.0	0.85	ug/L
p-Isopropyltoluene	5.0	1.3	ug/L
sec-Butylbenzene	5.0	1.1	ug/L
Styrene	5.0	2.0	ug/L
tert-Butylbenzene	5.0	1.1	ug/L

Default Detection Limits

Client: Leidos, Inc. Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	LOQ	DL	Units
Tetrachloroethene	5.0	0.60	ug/L
Toluene	5.0	2.4	ug/L
trans-1,2-Dichloroethene	5.0	0.65	ug/L
trans-1,3-Dichloropropene	5.0	2.1	ug/L
Trichloroethene	5.0	0.66	ug/L
Trichlorofluoromethane	5.0	1.6	ug/L
Vinyl chloride	5.0	1.0	ug/L
Xylenes (total)	10	1.4	ug/L

General Chemistry

Analyte	LOQ	DL	Units
Total Organic Carbon - Quad	1.0	0.16	mg/L

Surrogate Summary

Client: Leidos, Inc. Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(81-118)	(85-114)	(80-119)	(89-112)
490-175605-1	6MW2011	101	110	98	104
490-175605-1 MS	6MW2011MS	100	109	101	104
490-175605-1 MSD	6MW2011MSD	98	107	100	103
490-175605-2	6MW2511	95	114	96	105
490-175605-3	6MW2611	103	114	98	103
490-175605-4	6MW2311	103	108	98	102
490-175605-5	6MW2211	103	108	99	104
490-175605-6	6MW2411	102	112	99	103
490-175605-7	FB07	103	111	100	105
490-175605-8	TB	103	110	100	105
490-175605-9	6MW2011D	104	111	101	107
LCS 160-431879/4	Lab Control Sample	101	104	101	103
LCSD 160-431879/5	Lab Control Sample Dup	99	106	101	104
MB 160-431879/7	Method Blank	96	108	97	110

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-431879/7 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 431879

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	0.96	ug/L			06/17/19 12:49	1
1,1,1-Trichloroethane	2.5	U	5.0	1.1	ug/L			06/17/19 12:49	1
1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.1	ug/L			06/17/19 12:49	1
1,1,2-Trichloroethane	2.5	U	5.0	0.77	ug/L			06/17/19 12:49	1
1,1-Dichloroethane	2.5	U	5.0	0.56	ug/L			06/17/19 12:49	1
1,1-Dichloroethene	2.5	U	5.0	0.72	ug/L			06/17/19 12:49	1
1,1-Dichloropropene	2.5	U	5.0	0.66	ug/L			06/17/19 12:49	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			06/17/19 12:49	1
1,2,3-Trichloropropane	2.5	U	5.0	1.9	ug/L			06/17/19 12:49	1
1,2,4-Trimethylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 12:49	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	3.3	ug/L			06/17/19 12:49	1
1,2-Dibromoethane	2.5	U	5.0	0.61	ug/L			06/17/19 12:49	1
1,2-Dichloroethane	2.5	U	5.0	1.2	ug/L			06/17/19 12:49	1
1,2-Dichloropropane	2.5	U	5.0	0.54	ug/L			06/17/19 12:49	1
1,3,5-Trimethylbenzene	2.5	U	5.0	1.8	ug/L			06/17/19 12:49	1
1,3-Dichloropropane	2.5	U	5.0	0.66	ug/L			06/17/19 12:49	1
2,2-Dichloropropane	2.5	U	5.0	0.85	ug/L			06/17/19 12:49	1
2-Butanone (MEK)	5.0	U	20	2.4	ug/L			06/17/19 12:49	1
2-Chlorotoluene	2.5	U	5.0	0.86	ug/L			06/17/19 12:49	1
2-Hexanone	5.0	U	20	4.6	ug/L			06/17/19 12:49	1
4-Chlorotoluene	2.5	U	5.0	1.1	ug/L			06/17/19 12:49	1
4-Methyl-2-pentanone (MIBK)	10	U	20	4.6	ug/L			06/17/19 12:49	1
Acetone	10	U	20	3.2	ug/L			06/17/19 12:49	1
Benzene	2.5	U	5.0	0.33	ug/L			06/17/19 12:49	1
Bromobenzene	2.5	U	5.0	0.81	ug/L			06/17/19 12:49	1
Bromochloromethane	2.5	U	5.0	0.77	ug/L			06/17/19 12:49	1
Bromodichloromethane	2.5	U	5.0	0.72	ug/L			06/17/19 12:49	1
Bromoform	2.5	U	5.0	2.1	ug/L			06/17/19 12:49	1
Bromomethane	5.0	U	10	2.7	ug/L			06/17/19 12:49	1
Carbon disulfide	2.5	U	5.0	0.77	ug/L			06/17/19 12:49	1
Carbon tetrachloride	2.5	U	5.0	1.0	ug/L			06/17/19 12:49	1
Chlorobenzene	2.5	U	5.0	0.59	ug/L			06/17/19 12:49	1
Chloroethane	2.5	U	10	1.0	ug/L			06/17/19 12:49	1
Chloroform	2.5	U	5.0	0.77	ug/L			06/17/19 12:49	1
Chloromethane	2.5	U	10	0.85	ug/L			06/17/19 12:49	1
cis-1,2-Dichloroethene	2.5	U	5.0	0.76	ug/L			06/17/19 12:49	1
cis-1,3-Dichloropropene	5.0	U	5.0	2.6	ug/L			06/17/19 12:49	1
Dibromochloromethane	2.5	U	5.0	0.97	ug/L			06/17/19 12:49	1
Dibromomethane	2.5	U	5.0	0.78	ug/L			06/17/19 12:49	1
Dichlorodifluoromethane	2.5	U	10	1.6	ug/L			06/17/19 12:49	1
Ethylbenzene	2.5	U	5.0	0.44	ug/L			06/17/19 12:49	1
Isopropylbenzene	2.5	U	5.0	1.9	ug/L			06/17/19 12:49	1
m,p-Xylenes	2.5	U	5.0	0.52	ug/L			06/17/19 12:49	1
Methyl tert-butyl ether	2.5	U	5.0	0.79	ug/L			06/17/19 12:49	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			06/17/19 12:49	1
Naphthalene	5.0	U	5.0	3.0	ug/L			06/17/19 12:49	1
n-Butylbenzene	2.5	U	5.0	1.2	ug/L			06/17/19 12:49	1
N-Propylbenzene	2.5	U	5.0	1.4	ug/L			06/17/19 12:49	1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-431879/7 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 431879

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	2.5	U	5.0	0.85	ug/L			06/17/19 12:49	1
p-Isopropyltoluene	2.5	U	5.0	1.3	ug/L			06/17/19 12:49	1
sec-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 12:49	1
Styrene	2.5	U	5.0	2.0	ug/L			06/17/19 12:49	1
tert-Butylbenzene	2.5	U	5.0	1.1	ug/L			06/17/19 12:49	1
Tetrachloroethene	2.5	U	5.0	0.60	ug/L			06/17/19 12:49	1
Toluene	5.0	U	5.0	2.4	ug/L			06/17/19 12:49	1
trans-1,2-Dichloroethene	2.5	U	5.0	0.65	ug/L			06/17/19 12:49	1
trans-1,3-Dichloropropene	2.5	U	5.0	2.1	ug/L			06/17/19 12:49	1
Trichloroethene	2.5	U	5.0	0.66	ug/L			06/17/19 12:49	1
Trichlorofluoromethane	2.5	U	5.0	1.6	ug/L			06/17/19 12:49	1
Vinyl chloride	2.0	U	5.0	1.0	ug/L			06/17/19 12:49	1
Xylenes (total)	5.0	U	10	1.4	ug/L			06/17/19 12:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*81 - 118*		*06/17/19 12:49*	*1*
4-Bromofluorobenzene (Surr)	*108*		*85 - 114*		*06/17/19 12:49*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 119*		*06/17/19 12:49*	*1*
Toluene-d8 (Surr)	*110*		*89 - 112*		*06/17/19 12:49*	*1*

Lab Sample ID: LCS 160-431879/4 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 431879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/L		100	78 - 124
1,1,1-Trichloroethane	50.0	49.8		ug/L		100	74 - 131
1,1,2,2-Tetrachloroethane	50.0	51.8		ug/L		104	71 - 121
1,1,2-Trichloroethane	50.0	50.0		ug/L		100	80 - 119
1,1-Dichloroethane	50.0	50.7		ug/L		101	77 - 125
1,1-Dichloroethene	50.0	52.9		ug/L		106	71 - 131
1,1-Dichloropropene	50.0	52.7		ug/L		105	79 - 125
1,2,3-Trichlorobenzene	50.0	56.6		ug/L		113	69 - 129
1,2,3-Trichloropropane	50.0	50.5		ug/L		101	73 - 122
1,2,4-Trimethylbenzene	50.0	52.2		ug/L		104	76 - 124
1,2-Dibromo-3-Chloropropane	50.0	56.4		ug/L		113	62 - 128
1,2-Dibromoethane	50.0	51.0		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	49.8		ug/L		100	73 - 128
1,2-Dichloropropane	50.0	51.3		ug/L		103	78 - 122
1,3,5-Trimethylbenzene	50.0	52.6		ug/L		105	75 - 124
1,3-Dichloropropane	50.0	51.0		ug/L		102	80 - 119
2,2-Dichloropropane	50.0	51.4		ug/L		103	60 - 139
2-Butanone (MEK)	50.0	56.7	M	ug/L		113	56 - 143
2-Chlorotoluene	50.0	50.6		ug/L		101	79 - 122
2-Hexanone	50.0	52.8		ug/L		106	57 - 139
4-Chlorotoluene	50.0	51.3		ug/L		103	78 - 122
4-Methyl-2-pentanone (MIBK)	50.0	56.8		ug/L		114	67 - 130
Acetone	50.0	55.0		ug/L		110	39 - 160

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-431879/4 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 431879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.4		ug/L		101	79 - 120
Bromobenzene	50.0	50.4		ug/L		101	80 - 120
Bromochloromethane	50.0	50.3		ug/L		101	78 - 123
Bromodichloromethane	50.0	51.1		ug/L		102	79 - 125
Bromoform	50.0	54.8		ug/L		110	66 - 130
Bromomethane	50.0	48.5		ug/L		97	53 - 141
Carbon disulfide	50.0	52.9		ug/L		106	64 - 133
Carbon tetrachloride	50.0	49.7		ug/L		99	72 - 136
Chlorobenzene	50.0	49.3		ug/L		99	82 - 118
Chloroethane	50.0	53.2		ug/L		106	60 - 138
Chloroform	50.0	48.4		ug/L		97	79 - 124
Chloromethane	50.0	50.8		ug/L		102	50 - 139
cis-1,2-Dichloroethene	50.0	51.2		ug/L		102	78 - 123
cis-1,3-Dichloropropene	50.0	53.8		ug/L		108	75 - 124
Dibromochloromethane	50.0	51.4		ug/L		103	74 - 126
Dibromomethane	50.0	50.3		ug/L		101	79 - 123
Dichlorodifluoromethane	50.0	57.3		ug/L		115	32 - 152
Ethylbenzene	50.0	50.4		ug/L		101	79 - 121
Isopropylbenzene	50.0	51.7		ug/L		103	72 - 131
m,p-Xylenes	50.0	51.8		ug/L		104	80 - 121
Methyl tert-butyl ether	50.0	53.2		ug/L		106	71 - 124
Methylene Chloride	50.0	50.1		ug/L		100	74 - 124
Naphthalene	50.0	61.0		ug/L		122	61 - 128
n-Butylbenzene	50.0	53.7		ug/L		107	75 - 128
N-Propylbenzene	50.0	52.1		ug/L		104	76 - 126
o-Xylene	50.0	53.0		ug/L		106	78 - 122
p-Isopropyltoluene	50.0	52.4		ug/L		105	77 - 127
sec-Butylbenzene	50.0	51.4		ug/L		103	77 - 126
Styrene	50.0	54.1		ug/L		108	78 - 123
tert-Butylbenzene	50.0	51.4		ug/L		103	78 - 124
Tetrachloroethene	50.0	50.5		ug/L		101	74 - 129
Toluene	50.0	50.3		ug/L		101	80 - 121
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	75 - 124
trans-1,3-Dichloropropene	50.0	53.3		ug/L		107	73 - 127
Trichloroethene	50.0	49.6		ug/L		99	79 - 123
Trichlorofluoromethane	50.0	49.7		ug/L		99	65 - 141
Vinyl chloride	50.0	52.3		ug/L		105	58 - 137
Xylenes (total)	100	105		ug/L		105	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*
Dibromofluoromethane (Surr)	*101*		*80 - 119*
Toluene-d8 (Surr)	*103*		*89 - 112*

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-431879/5 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 431879

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/L		102	78 - 124	2	20
1,1,1-Trichloroethane	50.0	50.8		ug/L		102	74 - 131	2	20
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	71 - 121	3	20
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	80 - 119	0	20
1,1-Dichloroethane	50.0	51.4		ug/L		103	77 - 125	1	20
1,1-Dichloroethene	50.0	53.8		ug/L		108	71 - 131	2	20
1,1-Dichloropropene	50.0	53.7		ug/L		107	79 - 125	2	20
1,2,3-Trichlorobenzene	50.0	57.3		ug/L		115	69 - 129	1	20
1,2,3-Trichloropropane	50.0	50.2		ug/L		100	73 - 122	1	20
1,2,4-Trimethylbenzene	50.0	54.2		ug/L		108	76 - 124	4	20
1,2-Dibromo-3-Chloropropane	50.0	55.8		ug/L		112	62 - 128	1	20
1,2-Dibromoethane	50.0	51.4		ug/L		103	80 - 120	1	20
1,2-Dichloroethane	50.0	49.4		ug/L		99	73 - 128	1	20
1,2-Dichloropropane	50.0	52.0		ug/L		104	78 - 122	1	20
1,3,5-Trimethylbenzene	50.0	55.1		ug/L		110	75 - 124	5	20
1,3-Dichloropropane	50.0	51.0		ug/L		102	80 - 119	0	20
2,2-Dichloropropane	50.0	52.1		ug/L		104	60 - 139	1	20
2-Butanone (MEK)	50.0	55.0	M	ug/L		110	56 - 143	3	20
2-Chlorotoluene	50.0	51.9		ug/L		104	79 - 122	3	20
2-Hexanone	50.0	50.0		ug/L		100	57 - 139	5	20
4-Chlorotoluene	50.0	53.4		ug/L		107	78 - 122	4	20
4-Methyl-2-pentanone (MIBK)	50.0	56.1		ug/L		112	67 - 130	1	20
Acetone	50.0	49.9		ug/L		100	39 - 160	10	20
Benzene	50.0	50.7		ug/L		101	79 - 120	1	20
Bromobenzene	50.0	51.2		ug/L		102	80 - 120	2	20
Bromochloromethane	50.0	49.8		ug/L		100	78 - 123	1	20
Bromodichloromethane	50.0	51.4		ug/L		103	79 - 125	1	20
Bromoform	50.0	54.6		ug/L		109	66 - 130	0	20
Bromomethane	50.0	49.1		ug/L		98	53 - 141	1	20
Carbon disulfide	50.0	53.7		ug/L		107	64 - 133	2	20
Carbon tetrachloride	50.0	50.3		ug/L		101	72 - 136	1	20
Chlorobenzene	50.0	50.7		ug/L		101	82 - 118	3	20
Chloroethane	50.0	54.7		ug/L		109	60 - 138	3	20
Chloroform	50.0	50.2		ug/L		100	79 - 124	4	20
Chloromethane	50.0	51.1		ug/L		102	50 - 139	1	20
cis-1,2-Dichloroethene	50.0	51.8		ug/L		104	78 - 123	1	20
cis-1,3-Dichloropropene	50.0	53.8		ug/L		108	75 - 124	0	20
Dibromochloromethane	50.0	51.7		ug/L		103	74 - 126	1	20
Dibromomethane	50.0	50.0		ug/L		100	79 - 123	1	20
Dichlorodifluoromethane	50.0	57.9		ug/L		116	32 - 152	1	20
Ethylbenzene	50.0	51.9		ug/L		104	79 - 121	3	20
Isopropylbenzene	50.0	54.2		ug/L		108	72 - 131	5	20
m,p-Xylenes	50.0	53.3		ug/L		107	80 - 121	3	20
Methyl tert-butyl ether	50.0	52.4		ug/L		105	71 - 124	2	20
Methylene Chloride	50.0	50.4		ug/L		101	74 - 124	0	20
Naphthalene	50.0	61.1		ug/L		122	61 - 128	0	20
n-Butylbenzene	50.0	55.5		ug/L		111	75 - 128	3	20
N-Propylbenzene	50.0	54.7		ug/L		109	76 - 126	5	20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-431879/5 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 431879

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene			50.0	54.6		ug/L		109	78 - 122	3	20
p-Isopropyltoluene			50.0	54.7		ug/L		109	77 - 127	4	20
sec-Butylbenzene			50.0	54.0		ug/L		108	77 - 126	5	20
Styrene			50.0	55.6		ug/L		111	78 - 123	3	20
tert-Butylbenzene			50.0	53.8		ug/L		108	78 - 124	5	20
Tetrachloroethene			50.0	52.4		ug/L		105	74 - 129	4	20
Toluene			50.0	52.2		ug/L		104	80 - 121	4	20
trans-1,2-Dichloroethene			50.0	52.7		ug/L		105	75 - 124	2	20
trans-1,3-Dichloropropene			50.0	53.9		ug/L		108	73 - 127	1	20
Trichloroethene			50.0	51.4		ug/L		103	79 - 123	4	20
Trichlorofluoromethane			50.0	50.8		ug/L		102	65 - 141	2	20
Vinyl chloride			50.0	53.1		ug/L		106	58 - 137	2	20
Xylenes (total)			100	108		ug/L		108	79 - 121	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*
4-Bromofluorobenzene (Surr)	*106*		*85 - 114*
Dibromofluoromethane (Surr)	*101*		*80 - 119*
Toluene-d8 (Surr)	*104*		*89 - 112*

Lab Sample ID: 490-175605-1 MS **Client Sample ID: 6MW2011MS**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 431879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2.5	U	50.0	49.9		ug/L		100	78 - 124
1,1,1-Trichloroethane	2.5	U	50.0	49.5		ug/L		99	74 - 131
1,1,2,2-Tetrachloroethane	2.5	U	50.0	51.1		ug/L		102	71 - 121
1,1,2-Trichloroethane	2.5	U	50.0	50.1		ug/L		100	80 - 119
1,1-Dichloroethane	2.5	U	50.0	50.7		ug/L		101	77 - 125
1,1-Dichloroethene	2.5	U	50.0	52.7		ug/L		105	71 - 131
1,1-Dichloropropene	2.5	U	50.0	52.3		ug/L		105	79 - 125
1,2,3-Trichlorobenzene	2.5	U	50.0	53.0		ug/L		106	69 - 129
1,2,3-Trichloropropane	2.5	U	50.0	50.4		ug/L		101	73 - 122
1,2,4-Trimethylbenzene	2.5	U	50.0	52.8		ug/L		106	76 - 124
1,2-Dibromo-3-Chloropropane	5.0	U	50.0	52.0		ug/L		104	62 - 128
1,2-Dibromoethane	2.5	U	50.0	51.1		ug/L		102	80 - 120
1,2-Dichloroethane	2.5	U	50.0	49.8		ug/L		100	73 - 128
1,2-Dichloropropane	2.5	U	50.0	52.0		ug/L		104	78 - 122
1,3,5-Trimethylbenzene	2.5	U	50.0	53.6		ug/L		107	75 - 124
1,3-Dichloropropane	2.5	U	50.0	51.5		ug/L		103	80 - 119
2,2-Dichloropropane	2.5	U	50.0	51.7		ug/L		103	60 - 139
2-Butanone (MEK)	29		50.0	82.2		ug/L		107	56 - 143
2-Chlorotoluene	2.5	U	50.0	50.9		ug/L		102	79 - 122
2-Hexanone	5.0	U M	50.0	48.0		ug/L		96	57 - 139
4-Chlorotoluene	2.5	U	50.0	52.5		ug/L		105	78 - 122
4-Methyl-2-pentanone (MIBK)	10	U	50.0	54.3		ug/L		109	67 - 130
Acetone	10	J	50.0	57.8		ug/L		96	39 - 160

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-175605-1 MS **Client Sample ID: 6MW2011MS**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 431879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2.5	U	50.0	50.5		ug/L		101	79 - 120
Bromobenzene	2.5	U	50.0	51.1		ug/L		102	80 - 120
Bromochloromethane	2.5	U	50.0	49.9		ug/L		100	78 - 123
Bromodichloromethane	2.5	U	50.0	50.7		ug/L		101	79 - 125
Bromoform	2.5	U	50.0	52.6		ug/L		105	66 - 130
Bromomethane	5.0	U	50.0	48.6		ug/L		97	53 - 141
Carbon disulfide	2.5	U	50.0	52.2		ug/L		104	64 - 133
Carbon tetrachloride	2.5	U	50.0	48.9		ug/L		98	72 - 136
Chlorobenzene	2.5	U	50.0	50.1		ug/L		100	82 - 118
Chloroethane	2.5	U J1	50.0	18.2	J1	ug/L		36	60 - 138
Chloroform	2.5	U	50.0	49.8		ug/L		100	79 - 124
Chloromethane	2.5	U	50.0	51.2		ug/L		102	50 - 139
cis-1,2-Dichloroethene	2.5	J	50.0	54.2		ug/L		103	78 - 123
cis-1,3-Dichloropropene	5.0	U	50.0	52.9		ug/L		106	75 - 124
Dibromochloromethane	2.5	U	50.0	51.4		ug/L		103	74 - 126
Dibromomethane	2.5	U	50.0	50.6		ug/L		101	79 - 123
Dichlorodifluoromethane	2.5	U	50.0	56.1		ug/L		112	32 - 152
Ethylbenzene	2.5	U	50.0	51.1		ug/L		102	79 - 121
Isopropylbenzene	2.5	U	50.0	53.2		ug/L		106	72 - 131
m,p-Xylenes	2.5	U	50.0	52.6		ug/L		105	80 - 121
Methyl tert-butyl ether	2.5	U	50.0	52.3		ug/L		105	71 - 124
Methylene Chloride	5.0	U	50.0	51.4		ug/L		103	74 - 124
Naphthalene	5.0	U	50.0	54.1		ug/L		108	61 - 128
n-Butylbenzene	2.5	U	50.0	53.1		ug/L		106	75 - 128
N-Propylbenzene	2.5	U	50.0	53.1		ug/L		106	76 - 126
o-Xylene	2.5	U	50.0	53.6		ug/L		107	78 - 122
p-Isopropyltoluene	2.5	U	50.0	52.7		ug/L		105	77 - 127
sec-Butylbenzene	2.5	U	50.0	51.7		ug/L		103	77 - 126
Styrene	2.5	U	50.0	54.8		ug/L		110	78 - 123
tert-Butylbenzene	2.5	U	50.0	52.0		ug/L		104	78 - 124
Tetrachloroethene	2.5	U	50.0	50.5		ug/L		101	74 - 129
Toluene	5.0	U	50.0	52.0		ug/L		104	80 - 121
trans-1,2-Dichloroethene	2.5	U	50.0	51.7		ug/L		103	75 - 124
trans-1,3-Dichloropropene	2.5	U	50.0	54.4		ug/L		109	73 - 127
Trichloroethene	2.5	U	50.0	48.9		ug/L		98	79 - 123
Trichlorofluoromethane	2.5	U	50.0	40.1		ug/L		80	65 - 141
Vinyl chloride	1.6	J	50.0	52.8		ug/L		102	58 - 137
Xylenes (total)	5.0	U	100	106		ug/L		106	79 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*
4-Bromofluorobenzene (Surr)	*109*		*85 - 114*
Dibromofluoromethane (Surr)	*101*		*80 - 119*
Toluene-d8 (Surr)	*104*		*89 - 112*

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-175605-1 MSD **Client Sample ID: 6MW2011MSD**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 431879

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	2.5	U	50.0	49.9		ug/L		100	78 - 124	0	20
1,1,1-Trichloroethane	2.5	U	50.0	49.4		ug/L		99	74 - 131	0	20
1,1,2,2-Tetrachloroethane	2.5	U	50.0	51.4		ug/L		103	71 - 121	1	20
1,1,2-Trichloroethane	2.5	U	50.0	49.8		ug/L		100	80 - 119	1	20
1,1-Dichloroethane	2.5	U	50.0	50.7		ug/L		101	77 - 125	0	20
1,1-Dichloroethene	2.5	U	50.0	52.6		ug/L		105	71 - 131	0	20
1,1-Dichloropropene	2.5	U	50.0	52.9		ug/L		106	79 - 125	1	20
1,2,3-Trichlorobenzene	2.5	U	50.0	53.9		ug/L		108	69 - 129	2	20
1,2,3-Trichloropropane	2.5	U	50.0	49.2		ug/L		98	73 - 122	2	20
1,2,4-Trimethylbenzene	2.5	U	50.0	53.3		ug/L		107	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	5.0	U	50.0	51.9		ug/L		104	62 - 128	0	20
1,2-Dibromoethane	2.5	U	50.0	50.9		ug/L		102	80 - 120	0	20
1,2-Dichloroethane	2.5	U	50.0	49.4		ug/L		99	73 - 128	1	20
1,2-Dichloropropane	2.5	U	50.0	51.4		ug/L		103	78 - 122	1	20
1,3,5-Trimethylbenzene	2.5	U	50.0	54.1		ug/L		108	75 - 124	1	20
1,3-Dichloropropane	2.5	U	50.0	51.0		ug/L		102	80 - 119	1	20
2,2-Dichloropropane	2.5	U	50.0	51.5		ug/L		103	60 - 139	0	20
2-Butanone (MEK)	29		50.0	78.8		ug/L		100	56 - 143	4	20
2-Chlorotoluene	2.5	U	50.0	51.2		ug/L		102	79 - 122	0	20
2-Hexanone	5.0	U M	50.0	47.6		ug/L		95	57 - 139	1	20
4-Chlorotoluene	2.5	U	50.0	52.6		ug/L		105	78 - 122	0	20
4-Methyl-2-pentanone (MIBK)	10	U	50.0	54.0		ug/L		108	67 - 130	1	20
Acetone	10	J	50.0	56.5		ug/L		93	39 - 160	2	20
Benzene	2.5	U	50.0	50.5		ug/L		101	79 - 120	0	20
Bromobenzene	2.5	U	50.0	51.6		ug/L		103	80 - 120	1	20
Bromochloromethane	2.5	U	50.0	49.2		ug/L		98	78 - 123	1	20
Bromodichloromethane	2.5	U	50.0	50.7		ug/L		101	79 - 125	0	20
Bromoform	2.5	U	50.0	52.1		ug/L		104	66 - 130	1	20
Bromomethane	5.0	U	50.0	50.0		ug/L		100	53 - 141	3	20
Carbon disulfide	2.5	U	50.0	52.4		ug/L		105	64 - 133	0	20
Carbon tetrachloride	2.5	U	50.0	48.6		ug/L		97	72 - 136	1	20
Chlorobenzene	2.5	U	50.0	50.2		ug/L		100	82 - 118	0	20
Chloroethane	2.5	U J1	50.0	18.8	J1	ug/L		38	60 - 138	3	20
Chloroform	2.5	U	50.0	49.5		ug/L		99	79 - 124	1	20
Chloromethane	2.5	U	50.0	52.3		ug/L		105	50 - 139	2	20
cis-1,2-Dichloroethene	2.5	J	50.0	54.1		ug/L		103	78 - 123	0	20
cis-1,3-Dichloropropene	5.0	U	50.0	52.2		ug/L		104	75 - 124	1	20
Dibromochloromethane	2.5	U	50.0	51.0		ug/L		102	74 - 126	1	20
Dibromomethane	2.5	U	50.0	49.5		ug/L		99	79 - 123	2	20
Dichlorodifluoromethane	2.5	U	50.0	56.0		ug/L		112	32 - 152	0	20
Ethylbenzene	2.5	U	50.0	51.3		ug/L		103	79 - 121	0	20
Isopropylbenzene	2.5	U	50.0	53.8		ug/L		108	72 - 131	1	20
m,p-Xylenes	2.5	U	50.0	52.7		ug/L		105	80 - 121	0	20
Methyl tert-butyl ether	2.5	U	50.0	51.8		ug/L		104	71 - 124	1	20
Methylene Chloride	5.0	U	50.0	51.5		ug/L		103	74 - 124	0	20
Naphthalene	5.0	U	50.0	55.5		ug/L		111	61 - 128	3	20
n-Butylbenzene	2.5	U	50.0	53.7		ug/L		107	75 - 128	1	20
N-Propylbenzene	2.5	U	50.0	53.5		ug/L		107	76 - 126	1	20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-175605-1 MSD **Client Sample ID: 6MW2011MSD**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 431879

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	2.5	U	50.0	54.0		ug/L		108	78 - 122	1	20
p-Isopropyltoluene	2.5	U	50.0	53.1		ug/L		106	77 - 127	1	20
sec-Butylbenzene	2.5	U	50.0	52.2		ug/L		104	77 - 126	1	20
Styrene	2.5	U	50.0	54.9		ug/L		110	78 - 123	0	20
tert-Butylbenzene	2.5	U	50.0	52.9		ug/L		106	78 - 124	2	20
Tetrachloroethene	2.5	U	50.0	50.8		ug/L		102	74 - 129	1	20
Toluene	5.0	U	50.0	52.1		ug/L		104	80 - 121	0	20
trans-1,2-Dichloroethene	2.5	U	50.0	51.9		ug/L		104	75 - 124	0	20
trans-1,3-Dichloropropene	2.5	U	50.0	53.2		ug/L		106	73 - 127	2	20
Trichloroethene	2.5	U	50.0	48.7		ug/L		97	79 - 123	0	20
Trichlorofluoromethane	2.5	U	50.0	44.3		ug/L		89	65 - 141	10	20
Vinyl chloride	1.6	J	50.0	54.2		ug/L		105	58 - 137	3	20
Xylenes (total)	5.0	U	100	107		ug/L		107	79 - 121	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*
Dibromofluoromethane (Surr)	*100*		*80 - 119*
Toluene-d8 (Surr)	*103*		*89 - 112*

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-463355/18 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 463355

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	0.50	U	1.0	0.16	mg/L			07/01/19 18:18	1

Lab Sample ID: LCS 280-463355/17 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 463355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Quad	25.0	24.2		mg/L		97	88 - 112

Lab Sample ID: 490-175605-2 MS **Client Sample ID: 6MW2511**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 463355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Quad	5.6		25.0	30.2		mg/L		99	88 - 112

Lab Sample ID: 490-175605-2 MSD **Client Sample ID: 6MW2511**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 463355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Quad	5.6		25.0	30.2		mg/L		99	88 - 112	0	15

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 280-463599/58 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 463599

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	0.50	U	1.0	0.16	mg/L			07/03/19 05:19	1

Lab Sample ID: LCS 280-463599/56 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 463599

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Quad			25.0	24.4		mg/L		97	88 - 112		

Lab Sample ID: LCSD 280-463599/57 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 463599

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Quad			25.0	24.3		mg/L		97	88 - 112	0	15

QC Association Summary

Client: Leidos, Inc.
Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

GC/MS VOA

Analysis Batch: 431879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-175605-1	6MW2011	Total/NA	Water	8260C DOD	
490-175605-2	6MW2511	Total/NA	Water	8260C DOD	
490-175605-3	6MW2611	Total/NA	Water	8260C DOD	
490-175605-4	6MW2311	Total/NA	Water	8260C DOD	
490-175605-5	6MW2211	Total/NA	Water	8260C DOD	
490-175605-6	6MW2411	Total/NA	Water	8260C DOD	
490-175605-7	FB07	Total/NA	Water	8260C DOD	
490-175605-8	TB	Total/NA	Water	8260C DOD	
490-175605-9	6MW2011D	Total/NA	Water	8260C DOD	
MB 160-431879/7	Method Blank	Total/NA	Water	8260C DOD	
LCS 160-431879/4	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 160-431879/5	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
490-175605-1 MS	6MW2011MS	Total/NA	Water	8260C DOD	
490-175605-1 MSD	6MW2011MSD	Total/NA	Water	8260C DOD	

General Chemistry

Analysis Batch: 463355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-175605-1	6MW2011	Total/NA	Water	9060A	
490-175605-2	6MW2511	Total/NA	Water	9060A	
490-175605-3	6MW2611	Total/NA	Water	9060A	
490-175605-4	6MW2311	Total/NA	Water	9060A	
490-175605-9	6MW2011D	Total/NA	Water	9060A	
MB 280-463355/18	Method Blank	Total/NA	Water	9060A	
LCS 280-463355/17	Lab Control Sample	Total/NA	Water	9060A	
490-175605-2 MS	6MW2511	Total/NA	Water	9060A	
490-175605-2 MSD	6MW2511	Total/NA	Water	9060A	

Analysis Batch: 463599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-175605-5	6MW2211	Total/NA	Water	9060A	
490-175605-6	6MW2411	Total/NA	Water	9060A	
MB 280-463599/58	Method Blank	Total/NA	Water	9060A	
LCS 280-463599/56	Lab Control Sample	Total/NA	Water	9060A	
LCSD 280-463599/57	Lab Control Sample Dup	Total/NA	Water	9060A	

Client Sample ID: 6MW2011 — Lab Sample ID: 490-175605-1

Date Collected: 06/05/19 12:40 — **Matrix: Water**
Date Received: 06/08/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	431879	06/17/19 13:15	KKA	TAL SL
Total/NA	Analysis	9060A		1	20 mL	20 mL	463355	07/01/19 21:29	JAM	TAL DEN

Client Sample ID: 6MW2511 — Lab Sample ID: 490-175605-2

Date Collected: 06/05/19 14:00 — **Matrix: Water**
Date Received: 06/08/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	431879	06/17/19 14:55	KKA	TAL SL
Total/NA	Analysis	9060A		1	20 mL	20 mL	463355	07/01/19 21:44	JAM	TAL DEN

Client Sample ID: 6MW2611 — Lab Sample ID: 490-175605-3

Date Collected: 06/05/19 14:45 — **Matrix: Water**
Date Received: 06/08/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	431879	06/17/19 15:20	KKA	TAL SL
Total/NA	Analysis	9060A		1	20 mL	20 mL	463355	07/01/19 22:57	JAM	TAL DEN

Client Sample ID: 6MW2311 — Lab Sample ID: 490-175605-4

Date Collected: 06/05/19 15:35 — **Matrix: Water**
Date Received: 06/08/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	431879	06/17/19 15:46	KKA	TAL SL
Total/NA	Analysis	9060A		1	20 mL	20 mL	463355	07/01/19 23:12	JAM	TAL DEN

Client Sample ID: 6MW2211 — Lab Sample ID: 490-175605-5

Date Collected: 06/05/19 16:35 — **Matrix: Water**
Date Received: 06/08/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	431879	06/17/19 16:11	KKA	TAL SL
Total/NA	Analysis	9060A		2	20 mL	20 mL	463599	07/03/19 10:24	CCJ	TAL DEN

Client Sample ID: 6MW2411 — Lab Sample ID: 490-175605-6

Date Collected: 06/06/19 07:15 — **Matrix: Water**
Date Received: 06/08/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	431879	06/17/19 16:36	KKA	TAL SL
Total/NA	Analysis	9060A		1	20 mL	20 mL	463599	07/03/19 10:39	CCJ	TAL DEN

Lab Chronicle

Client: Leidos, Inc. Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

Client Sample ID: FB07 — Lab Sample ID: 490-175605-7

Date Collected: 06/06/19 06:50 — **Matrix: Water**
Date Received: 06/08/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	431879	06/17/19 17:01	KKA	TAL SL

Client Sample ID: TB — Lab Sample ID: 490-175605-8

Date Collected: 06/05/19 12:40 — **Matrix: Water**
Date Received: 06/08/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	431879	06/17/19 17:26	KKA	TAL SL

Client Sample ID: 6MW2011D — Lab Sample ID: 490-175605-9

Date Collected: 06/05/19 12:40 — **Matrix: Water**
Date Received: 06/08/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	431879	06/17/19 17:51	KKA	TAL SL
Total/NA	Analysis	9060A		1	20 mL	20 mL	463355	07/01/19 23:44	JAM	TAL DEN

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Leidos, Inc. Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

Laboratory: Eurofins TestAmerica, Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-19
A2LA	ISO/IEC 17025		0453.07	12-31-19
Alaska (UST)	State Program	10	UST-087	09-30-19
Arizona	State Program	9	AZ0473	05-05-20
Arkansas DEQ	State Program	6	88-0737	04-25-20
California	State Program	9	2938	06-30-20
Connecticut	State Program	1	PH-0220	12-31-19
Florida	NELAP	4	E87358	06-30-20
Georgia	State Program	4	E87358(FL)/453.07(A2LA)	06-30-20
Illinois	NELAP	5	200010	12-09-19
Iowa	State Program	7	131	04-01-20
Kansas	NELAP	7	E-10229	10-31-19
Kentucky (UST)	State Program	4	19	06-30-20
Kentucky (WW)	State Program	4	90038	12-31-19
Louisiana	NELAP	6	30613	06-30-20
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-20
Massachusetts	State Program	1	M-TN032	06-30-20
Minnesota	NELAP	5	047-999-345	12-31-19
Mississippi	State Program	4	N/A	06-30-20
Nevada	State Program	9	TN00032	07-31-19 *
New Hampshire	NELAP	1	2963	10-09-19
New Jersey	NELAP	2	TN965	06-30-20
New York	NELAP	2	11342	03-31-20
North Carolina (WW/SW)	State Program	4	387	12-31-19
North Dakota	State Program	8	R-146	06-30-20
Oklahoma	State Program	6	9412	08-31-19 *
Oregon	NELAP	10	TN200001	04-26-20
Pennsylvania	NELAP	3	68-00585	07-31-19 *
Rhode Island	State Program	1	LAO00268	12-30-19
South Carolina	State Program	4	84009 (001)	02-28-19 *
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-19
USDA	Federal		P330-13-00306	04-10-20
Utah	NELAP	8	TN00032	07-31-19
Virginia	NELAP	3	460152	06-14-20
Washington	State Program	10	C789	07-19-19 *
West Virginia DEP	State Program	3	219	02-28-20
Wisconsin	State Program	5	998020430	08-31-19 *
Wyoming (UST)	A2LA	8	453.07	12-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Leidos, Inc. Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

Laboratory: Eurofins TestAmerica, Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD		2907.01	10-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Connecticut	State Program	1	PH-0686	09-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad

Florida	NELAP	4	E87667	06-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad

New Hampshire	NELAP	1	205310	04-28-20
New York	NELAP	2	11964	04-01-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad

Pennsylvania	NELAP	3	68-00664	07-31-19 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Leidos, Inc. Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-19
ANAB	Dept. of Defense ELAP		L2305	04-06-22
ANAB	DoD		L2305	04-06-22
ANAB	DOE		L2305.01	04-06-22
Arizona	State		AZ0813	12-08-19
Arizona	State Program	9	AZ0813	12-08-19
California	State Program	9	2886	06-30-20
Connecticut	State Program	1	PH-0241	03-31-21
Florida	NELAP	4	E87689	06-30-20
Hawaii	State Program	9	NA	06-30-19
Illinois	NELAP	5	200023	11-30-19
Iowa	State Program	7	373	12-01-20
Kansas	NELAP	7	E-10236	10-31-19
Kentucky (DW)	State Program	4	KY90125	12-31-19
Louisiana	NELAP	6	04080	06-30-20
Louisiana (DW)	NELAP	6	LA011	12-31-19
Maryland	State Program	3	310	09-30-20
Michigan	State Program	5	9005	06-30-19
Missouri	State Program	7	780	06-30-20
Nevada	State Program	9	MO000542018-1	07-31-19 *
New Jersey	NELAP	2	MO002	06-30-20
New York	NELAP	2	11616	03-31-20
New York	NELAP		11616	04-01-20
North Dakota	State Program	8	R207	06-30-19 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State		9997	08-31-19
Oklahoma	State Program	6	9997	08-31-19 *
Pennsylvania	NELAP	3	68-00540	02-28-20
Pennsylvania	NELAP		68-00540	02-28-20
South Carolina	State Program	4	85002001	06-30-19 *
Texas	NELAP	6	T104704193-18-13	07-31-19 *
Texas	NELAP		T104704193-19-13	07-31-20
US Fish & Wildlife	Federal		058448	07-31-19
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542018-10	07-31-19 *
Virginia	NELAP	3	460230	06-14-20
Virginia	NELAP		10310	06-14-20
Washington	State Program	10	C592	08-30-19
West Virginia DEP	State Program	3	381	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Leidos, Inc. Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	TAL SL
9060A	Organic Carbon, Total (TOC)	SW846	TAL DEN
5030C	Purge and Trap	SW846	TAL SL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Leidos, Inc. Job ID: 490-175605-1
Project/Site: Stratton ANGB, NY (Schenectady)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
490-175605-1	6MW2011	Water	06/05/19 12:40	06/08/19 09:45	
490-175605-2	6MW2511	Water	06/05/19 14:00	06/08/19 09:45	
490-175605-3	6MW2611	Water	06/05/19 14:45	06/08/19 09:45	
490-175605-4	6MW2311	Water	06/05/19 15:35	06/08/19 09:45	
490-175605-5	6MW2211	Water	06/05/19 16:35	06/08/19 09:45	
490-175605-6	6MW2411	Water	06/06/19 07:15	06/08/19 09:45	
490-175605-7	FB07	Water	06/06/19 06:50	06/08/19 09:45	
490-175605-8	TB	Water	06/05/19 12:40	06/08/19 09:45	
490-175605-9	6MW2011D	Water	06/05/19 12:40	06/08/19 09:45	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, St. Lo Job No.: 490-175605-1

SDG No.:

Instrument ID: VMSL Analysis Batch Number: 429557

Lab Sample ID: IC 160-429557/4 Client Sample ID:

Date Analyzed: 05/23/19 11:32 Lab File ID: LICL4770.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.39	Peak assignment corrected	aguk	05/28/19 11:00
Ethanol	5.46	Peak assignment corrected	aguk	05/28/19 11:00
Iodomethane	5.75	Peak assignment corrected	aguk	05/28/19 11:00
Acrolein	6.01	Peak assignment corrected	aguk	05/28/19 11:01
Acetone	6.39	Peak assignment corrected	aguk	05/28/19 11:01
Methyl tert-butyl ether	6.64	Missed Peak	aguk	05/28/19 11:01
Ethyl acetate	8.16	Missed Peak	aguk	05/28/19 11:02
Tetrahydrofuran	8.25	Missed Peak	aguk	05/28/19 11:02
2-Butanone (MEK)	8.39	Missed Peak	aguk	05/28/19 11:02
Ethyl acrylate	9.63	Missed Peak	aguk	05/28/19 11:02
2-Chloroethyl vinyl ether	10.20	Missed Peak	aguk	05/28/19 11:02
2-Nitropropane	10.73	Missed Peak	aguk	05/28/19 11:03
4-Methyl-2-pentanone (MIBK)	10.82	Missed Peak	aguk	05/28/19 11:03
Ethyl methacrylate	10.94	Missed Peak	aguk	05/28/19 11:03
n-Butyl acetate	11.43	Missed Peak	aguk	05/28/19 11:03
2-Hexanone	11.56	Missed Peak	aguk	05/28/19 11:03
Bromoform	12.54	Missed Peak	aguk	05/28/19 11:03
1,1,2,2-Tetrachloroethane	13.14	Missed Peak	aguk	05/28/19 11:03
1,2,3-Trichloropropane	13.30	Missed Peak	aguk	05/28/19 11:03
trans-1,4-Dichloro-2-butene	13.32	Missed Peak	aguk	05/28/19 11:03
Benzyl chloride	14.30	Missed Peak	aguk	05/28/19 11:04
n-Nonyl Aldehyde	15.20	Missed Peak	aguk	05/28/19 11:04
Naphthalene	16.31	Missed Peak	aguk	05/28/19 11:04

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, St. Lo Job No.: 490-175605-1

SDG No.:

Instrument ID: VMSL Analysis Batch Number: 429557

Lab Sample ID: IC 160-429557/5 Client Sample ID:

Date Analyzed: 05/23/19 11:57 Lab File ID: LICL4771.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	5.75	Peak assignment corrected	aguk	05/28/19 11:04
Acetone	6.39	Peak assignment corrected	aguk	05/28/19 11:05
2-Chloroethyl vinyl ether	10.20	Peak assignment corrected	aguk	05/28/19 11:05
2-Hexanone	11.56	Peak assignment corrected	aguk	05/28/19 11:05
Benzyl chloride	14.30	Peak assignment corrected	aguk	05/28/19 11:06

Lab Sample ID: IC 160-429557/10 Client Sample ID:

Date Analyzed: 05/23/19 14:01 Lab File ID: LICL4776.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	4.48	Split Peak	aguk	05/28/19 11:26

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, St. Lo Job No.: 490-175605-1

SDG No.:

Instrument ID: VMSL Analysis Batch Number: 431879

Lab Sample ID: CCV 160-431879/3 Client Sample ID:

Date Analyzed: 06/17/19 11:09 Lab File ID: LCCV4868.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	8.37	Peak assignment corrected	aguk	06/20/19 11:41

Lab Sample ID: LCS 160-431879/4 Client Sample ID:

Date Analyzed: 06/17/19 11:34 Lab File ID: LLCS4869.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	8.37	Peak assignment corrected	aguk	06/17/19 14:32

Lab Sample ID: LCSD 160-431879/5 Client Sample ID:

Date Analyzed: 06/17/19 11:59 Lab File ID: LLCS4870.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	8.37	Peak assignment corrected	aguk	06/17/19 14:32

Lab Sample ID: 490-175605-1 Client Sample ID: 6MW2011

Date Analyzed: 06/17/19 13:15 Lab File ID: LSMP4873.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	aguk	06/17/19 14:46

Lab Sample ID: 490-175605-2 Client Sample ID: 6MW2511

Date Analyzed: 06/17/19 14:55 Lab File ID: LSMP4877.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	aguk	06/17/19 16:01
4-Chlorotoluene		Invalid Compound ID	aguk	06/17/19 16:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, St. Lo Job No.: 490-175605-1

SDG No.:

Instrument ID: VMSL Analysis Batch Number: 431879

Lab Sample ID: 490-175605-5 Client Sample ID: 6MW2211

Date Analyzed: 06/17/19 16:11 Lab File ID: LSMP4880.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	aguk	06/18/19 15:54
trans-1,2-Dichloroethene		Invalid Compound ID	aguk	06/18/19 15:54

Lab Sample ID: 490-175605-6 Client Sample ID: 6MW2411

Date Analyzed: 06/17/19 16:36 Lab File ID: LSMP4881.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	aguk	06/18/19 15:55

Lab Sample ID: CCVC 160-431879/20 Client Sample ID:

Date Analyzed: 06/17/19 18:17 Lab File ID: LSMP4885.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	8.37	Peak assignment corrected	aguk	06/18/19 16:14

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
TOC ICV Std_00037	01/31/20	Ricca, Lot 1807G06			(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm
TOC LCS Std_00046	03/31/21	Ultra Scientific, Lot CT-0920			(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260 NewWkMix_00328	05/26/19	05/19/19	Methanol, Lot DV443	10 mL	8260_2_CLEVE_00078	100 uL	2-Chloroethyl vinyl ether	25 ug/mL
					8260Custom1_00078	125 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	25 ug/mL
							n-Nonyl Aldehyde	25 ug/mL
					8260Cyclohexa_00078	100 uL	Cyclohexanone	250 ug/mL
					8260Gases_00312	100 uL	Bromomethane	25 ug/mL
							Butadiene	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Dichlorofluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					8260Ketones_00078	20 uL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
					8260MegaMix_00078	100 uL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							2-Methyl-2-propanol	250 ug/mL
							3-Chloro-1-propene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Cyclohexane	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexane	25 ug/mL
							Iodomethane	25 ug/mL
							Isobutyl alcohol	625 ug/mL
							Isopropylbenzene	25 ug/mL
							m,p-Xylenes	25 ug/mL
							Methyl acetate	125 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylcyclohexane	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							n-Heptane	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							trans-1,4-Dichloro-2-butene	25 ug/mL
							Trichloroethene	25 ug/mL
					8260VinAcetat_00083	50 uL	Vinyl acetate	25 ug/mL
					Acrolein_00075	62.5 uL	Acrolein	125 ug/mL
					Adds(A) 2016_00041	100 uL	1,2,3-Trimethylbenzene	25 ug/mL
							1,3,5-Trichlorobenzene	25 ug/mL
							1-Chlorohexane	25 ug/mL
							2-Chloro-1,3-butadiene	25 ug/mL
							2-Nitropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	25 ug/mL
							Isooctane	25 ug/mL
							Isopropyl alcohol	250 ug/mL
							Methacrylonitrile	250 ug/mL
							n-Butanol	625 ug/mL
					Adds(B) 2016_00041	100 uL	Ethyl acetate	50 ug/mL
							Ethyl acrylate	25 ug/mL
							Methyl methacrylate	50 ug/mL
							n-Butyl acetate	25 ug/mL
					Ethanol P_00029	100 uL	Ethanol	1000 ug/mL
					Polar Add._00070	100 uL	Acetonitrile	250 ug/mL
							Isopropyl ether	25 ug/mL
							Propionitrile	250 ug/mL
							Tert-amyl methyl ether	25 ug/mL
							Tert-butyl ethyl ether	25 ug/mL
.8260_2_CLEVE_00078	06/13/19		Restek, Lot A0142584		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00078	06/19/19		Accustandard, Lot 219021153		(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00078	06/13/19		Restek, Lot A0145193		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.8260Gases_00312	05/26/19		Restek, Lot A0143158		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260Ketones_00078	06/13/19		Restek, Lot A0143988		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.8260MegaMix_00078	06/13/19		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VinAcetat_00083	06/19/19		Restek, Lot A0145775		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00075	05/29/19		Restek, Lot A0143013		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00041	06/19/19		Restek, Lot A0135915		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.Adds(B) 2016_00041	06/19/19		Restek, Lot A0135442		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Ethanol P_00029	06/19/19		Restek, Lot A0135657		(Purchased Reagent)		Ethanol	100000 ug/mL
.Polar Add._00070	06/13/19		Restek, Lot A0144915		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260 NewWkMix_00331	06/18/19	06/11/19	Methanol, Lot DV443	10 mL	8260Gases_00315	100 uL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					8260Ketones_00079	20 uL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
					8260MegaMix_00079	100 uL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Isopropylbenzene	25 ug/mL
							m,p-Xylenes	25 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
.8260Gases_00315	06/18/19		Restek, Lot A0143158		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	2500 ug/mL
.8260Ketones_00079	07/11/19		Restek, Lot A0143988		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.8260MegaMix_00079	07/11/19		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
8260 Surr 25_00099	06/23/19	05/23/19	Methanol, Lot DV443-US	25 mL	8260_Surr_00081	250 uL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
							Toluene-d8 (Surr)	25 ug/mL
.8260_Surr_00081	06/23/19		Restek, Lot A0143613		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
							1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260NewHiWrk_00298	05/26/19	05/19/19	Methanol, Lot DV443	2 mL	8260_2_CLEVE_00078	100 uL	2-Chloroethyl vinyl ether	125 ug/mL
					8260Custom1_00078	125 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	125 ug/mL
							n-Nonyl Aldehyde	125 ug/mL
					8260Cyclohexa_00078	100 uL	Cyclohexanone	1250 ug/mL
					8260Gases_00312	100 uL	Bromomethane	125 ug/mL
							Butadiene	125 ug/mL
							Chloroethane	125 ug/mL
							Chloromethane	125 ug/mL
							Dichlorodifluoromethane	125 ug/mL
							Dichlorofluoromethane	125 ug/mL
							Trichlorofluoromethane	125 ug/mL
							Vinyl chloride	125 ug/mL
					8260Ketones_00078	20 uL	2-Butanone (MEK)	125 ug/mL
							2-Hexanone	125 ug/mL
							4-Methyl-2-pentanone (MIBK)	125 ug/mL
							Acetone	125 ug/mL
					8260MegaMix_00078	100 uL	1,1,1,2-Tetrachloroethane	125 ug/mL
							1,1,1-Trichloroethane	125 ug/mL
							1,1,2,2-Tetrachloroethane	125 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	125 ug/mL
							1,1,2-Trichloroethane	125 ug/mL
							1,1-Dichloroethane	125 ug/mL
							1,1-Dichloroethene	125 ug/mL
							1,1-Dichloropropene	125 ug/mL
							1,2,3-Trichlorobenzene	125 ug/mL
							1,2,3-Trichloropropane	125 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	125 ug/mL
							1,2,4-Trimethylbenzene	125 ug/mL
							1,2-Dibromo-3-Chloropropane	125 ug/mL
							1,2-Dibromoethane	125 ug/mL
							1,2-Dichlorobenzene	125 ug/mL
							1,2-Dichloroethane	125 ug/mL
							1,2-Dichloropropane	125 ug/mL
							1,3,5-Trimethylbenzene	125 ug/mL
							1,3-Dichlorobenzene	125 ug/mL
							1,3-Dichloropropane	125 ug/mL
							1,4-Dichlorobenzene	125 ug/mL
							1,4-Dioxane	2500 ug/mL
							2,2-Dichloropropane	125 ug/mL
							2-Chlorotoluene	125 ug/mL
							2-Methyl-2-propanol	1250 ug/mL
							3-Chloro-1-propene	125 ug/mL
							4-Chlorotoluene	125 ug/mL
							Acrylonitrile	1250 ug/mL
							Benzene	125 ug/mL
							Bromobenzene	125 ug/mL
							Bromochloromethane	125 ug/mL
							Bromodichloromethane	125 ug/mL
							Bromoform	125 ug/mL
							Carbon disulfide	125 ug/mL
							Carbon tetrachloride	125 ug/mL
							Chlorobenzene	125 ug/mL
							Chloroform	125 ug/mL
							cis-1,2-Dichloroethene	125 ug/mL
							cis-1,3-Dichloropropene	125 ug/mL
							Cyclohexane	125 ug/mL
							Dibromochloromethane	125 ug/mL
							Dibromomethane	125 ug/mL
							Ethyl ether	125 ug/mL
							Ethyl methacrylate	125 ug/mL
							Ethylbenzene	125 ug/mL
							Hexachlorobutadiene	125 ug/mL
							Hexane	125 ug/mL
							Iodomethane	125 ug/mL
							Isobutyl alcohol	3125 ug/mL
							Isopropylbenzene	125 ug/mL
							m,p-Xylenes	125 ug/mL
							Methyl acetate	625 ug/mL
							Methyl tert-butyl ether	125 ug/mL
							Methylcyclohexane	125 ug/mL
							Methylene Chloride	125 ug/mL
							n-Butylbenzene	125 ug/mL
							n-Heptane	125 ug/mL
							N-Propylbenzene	125 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	125 ug/mL
							o-Xylene	125 ug/mL
							p-Isopropyltoluene	125 ug/mL
							sec-Butylbenzene	125 ug/mL
							Styrene	125 ug/mL
							tert-Butylbenzene	125 ug/mL
							Tetrachloroethene	125 ug/mL
							Tetrahydrofuran	250 ug/mL
							Toluene	125 ug/mL
							trans-1,2-Dichloroethene	125 ug/mL
							trans-1,3-Dichloropropene	125 ug/mL
							trans-1,4-Dichloro-2-butene	125 ug/mL
							Trichloroethene	125 ug/mL
					8260VinAcetat_00083	50 uL	Vinyl acetate	125 ug/mL
					Acrolein_00075	62.5 uL	Acrolein	625 ug/mL
					Adds(A) 2016_00041	100 uL	1,2,3-Trimethylbenzene	125 ug/mL
							1,3,5-Trichlorobenzene	125 ug/mL
							1-Chlorohexane	125 ug/mL
							2-Chloro-1,3-butadiene	125 ug/mL
							2-Nitropropane	250 ug/mL
							Benzyl chloride	125 ug/mL
							Isooctane	125 ug/mL
							Isopropyl alcohol	1250 ug/mL
							Methacrylonitrile	1250 ug/mL
							n-Butanol	3125 ug/mL
					Adds(B) 2016_00041	100 uL	Ethyl acetate	250 ug/mL
							Ethyl acrylate	125 ug/mL
							Methyl methacrylate	250 ug/mL
							n-Butyl acetate	125 ug/mL
					Ethanol P_00029	100 uL	Ethanol	5000 ug/mL
					Polar Add._00070	100 uL	Acetonitrile	1250 ug/mL
							Isopropyl ether	125 ug/mL
							Propionitrile	1250 ug/mL
							Tert-amyl methyl ether	125 ug/mL
							Tert-butyl ethyl ether	125 ug/mL
.8260_2_CLEVE_00078	06/13/19	Restek, Lot A0142584			(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00078	06/19/19	Accustandard, Lot 219021153			(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00078	06/13/19	Restek, Lot A0145193			(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.8260Gases_00312	05/26/19	Restek, Lot A0143158			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260Ketones_00078	06/13/19		Restek, Lot A0143988		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.8260MegaMix_00078	06/13/19		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VinAcetat_00083	06/19/19		Restek, Lot A0145775		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00075	05/29/19		Restek, Lot A0143013		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00041	06/19/19		Restek, Lot A0135915		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.Adds(B) 2016_00041	06/19/19		Restek, Lot A0135442		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Ethanol P_00029	06/19/19		Restek, Lot A0135657		(Purchased Reagent)		Ethanol	100000 ug/mL
.Polar Add._00070	06/13/19		Restek, Lot A0144915		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260NewICVMix_00314	05/26/19	05/19/19	Methanol, Lot DV443	5 mL	8260GasesSS_00308	50 uL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					8260KetonesSS_00076	10 uL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
					8260MegaMixSS_00076	50 uL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Isopropylbenzene	25 ug/mL
							m,p-Xylenes	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
.8260GasesSS_00308	05/26/19		Restek, Lot A0147004		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260KetonesSS_00076	06/06/19		Restek, Lot A014019		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.8260MegaMixSS_00076	06/06/19		Restek, Lot A0123775		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
BFB_00095							1,2-Dichloroethene, Total	
							BFB	25 ug/mL
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Xylenes (total)	
I.S. Working_00177	06/23/19	05/23/19	Methanol, Lot DV443-US	25 mL	8260 IS(2014)_00066	250 uL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene	25 ug/mL
.8260 IS(2014)_00066	06/23/19	Restek, Lot A0138856			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL

Reagent

TOC ICV Std_00037

RICCA CHEMICAL COMPANY®

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Batesville, IN 47006
http://www.riccachemical.com
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customerservice@riccachemical.com

Certificate of Analysis

Organic Carbon Standard, 1000 ppm C

Lot Number: 4901G09 **Product Number:** 1847

Manufacture Date: JAN 22, 2019
Expiration Date: JAN 2020

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Phosphoric Acid	7664-38-2	ACS
Potassium Acid Phthalate	877-24-7	ACS Acidimetric

Test	Specification	Result
Appearance	Colorless liquid	Passed
Carbon (C)	995-1005 ppm	1000 ppm

Specification	Reference
Organic Carbon Stock Solution	APHA (5310 B)
Potassium Hydrogen Phthalate, Stock Solution	EPA (SW-846) (9060)
Potassium Hydrogen Phthalate, Stock Solution, 1000 mg Carbon/liter	EPA (415.1)
Organic Carbon Solution, Standard (1 mL = 1 mg C)	ASTM (D 2579)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1847-16	500 mL amber glass	12 months
1847-32	1 L amber glass	12 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Jim Gibbs (01/22/2019)
Quality Control Supervisor
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Reagent

TOC LCS Std_00046

Agilent

Certificate of Analysis
ISO Guide 34

Product Number: IQC-106
Lot Number: CT-0920

Lot Issue Date: 28 -Feb 2019
Expiration Date: 31-Mar 2021

Product Name: Total Organic Carbon (TOC) Standard

Description:
This Reference Material (RM) was gravimetrically prepared in accordance with ISO Guide 34 and under Agilent's ISO 9001 registered quality system. The neat materials used for this product have been verified by Agilent's ISO 17025 laboratory and under Agilent's ISO Guide 34 accreditation. The analyte concentrations were verified by Agilent's ISO 17025 accredited laboratory. For each analyte, the true value, with its uncertainty value calculated at the 95% confidence level, is reported below.

Analyte	Starting Material	Lot Number	Purity (%)	Analyte Concentration	Traceability & Method
TOC	potassium hydrogen phthalate	RM14067	99.97	1000 ± 5 µg/mL	NAA00089; TOC Analyzer

Solvent: water (low TOC, <50 ppb)

Storage: Store at Room Temperature (15° to 30°C).

Traceability:
Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1, ISO 9001, ISO 17025, and ISO Guide 34. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

Estimation of Uncertainties:
The true value is reported, with its uncertainty value calculated at the 95% confidence level.

Homogeneity:
This RM was formulated and unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening and should be processed without delay for the true value to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipetting to the bottle. Tightly cap the bottle after removing any material and store according to the instructions noted above.

Hazards:
Refer to the Safety Data Sheet for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO Guide 34 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED TESTING LABORATORY
ISO17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

Certificate of Analysis
ISO Guide 34

Product Number: IQC-106
Lot Number: CT-0920

Lot Issue Date: 28 -Feb 2019
Expiration Date: 31-Mar 2021

Maintenance of Certification:
The real-time, long term stability of the RM may be monitored over the lifetime of the certification. If substantive changes occur that affect the certification before the expiration of this certificate, Agilent Technologies will notify the purchaser.

Monica Bourgeois
QMS Representative

ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

ISO17025 Cert No.
AT-1937

Reagent

8260 IS(2014)_00066

Received by KA 12/18/18
1646203-7

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ISO 17034 Accredited
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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30241 **Lot No.:** A0138856

Description : 8260A Internal Standard Mix

8260A Internal Standard Mix 2,500 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Fluorobenzene	2,519.8 µg/mL	+/- 14.6503 µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBK8171V)		+/- 141.2827 µg/mL	Unstressed
	Purity 99%		+/- 144.5885 µg/mL	Stressed
2	Chlorobenzene-d5	2,506.4 µg/mL	+/- 14.5724 µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-23926)		+/- 140.5314 µg/mL	Unstressed
	Purity 99%		+/- 143.8196 µg/mL	Stressed
3	1,4-Dichlorobenzene-d4	2,516.5 µg/mL	+/- 14.6311 µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-18488)		+/- 141.0977 µg/mL	Unstressed
	Purity 99%		+/- 144.3992 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

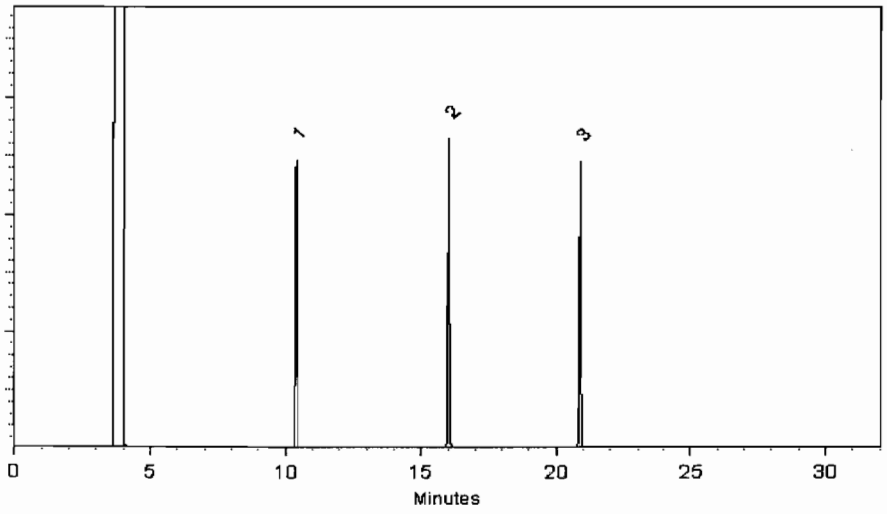
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Larry J. Moore - Mix Technician **Date Mixed:** 13-Jun-2018 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 18-Jun-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

Adds(A) 2016_00041

Received KA 1/7/19

1625519-21, 1630196, 1651289

RESTEK
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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808 **Lot No.:** A0135915

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) **CAS #** 67-63-0 (Lot SHBG4888V) **Purity** 99%	25,201.5 µg/mL	+/- 147.5603 µg/mL +/- 1,246.7862 µg/mL +/- 1,277.7827 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 (Lot 180302JLM) **Purity** 99%	2,510.0 µg/mL	+/- 14.7301 µg/mL +/- 124.1804 µg/mL +/- 127.2675 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 (Lot 1012014) **Purity** 99%	25,081.5 µg/mL	+/- 146.8577 µg/mL +/- 1,240.8495 µg/mL +/- 1,271.6983 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 (Lot SHBD2922V) **Purity** 99%	2,523.0 µg/mL	+/- 14.8064 µg/mL +/- 124.8236 µg/mL +/- 127.9267 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 (Lot SHBH9510) **Purity** 99%	62,543.5 µg/mL	+/- 366.1871 µg/mL +/- 3,094.1935 µg/mL +/- 3,171.1186 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 (Lot BCBL0537V) **Purity** 98%	5,026.4 µg/mL	+/- 29.4308 µg/mL +/- 248.6706 µg/mL +/- 254.8528 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 (Lot 05107LK) **Purity** 98%	2,519.1 µg/mL	+/- 14.7834 µg/mL +/- 124.6302 µg/mL +/- 127.7284 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene		2,502.6	µg/mL	+/-	14.6867	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 877605-13)			+/-	123.8143	µg/mL	Unstressed
	Purity 97%				+/-	126.8923	µg/mL	Stressed
9	Benzyl chloride		2,513.5	µg/mL	+/-	14.7506	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBB7346V)			+/-	124.3536	µg/mL	Unstressed
	Purity 99%				+/-	127.4450	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,501.5	µg/mL	+/-	14.6802	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	123.7599	µg/mL	Unstressed
	Purity 99%				+/-	126.8365	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

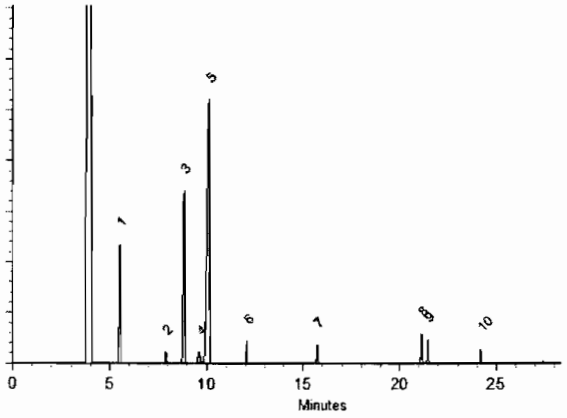
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 06-Mar-2018 **Balance:** B707717271

Justine Alberteon - Operations Tech-ARM QC

Date Passed: 08-Mar-2018

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

Adds(B) 2016_00041

Received by KA 1/7/19
1625524, 26, 1630197, 1651296

RESTEK
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809 **Lot No.:** A0135442

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertaint / (95% C.L.; K=2)	
1	Ethyl acetate **CAS #** 141-78-6 (Lot SHBH7407) **Purity** 99%	5,048.8 µg/mL	+/- 29.5618 µg/mL +/- 304.6366 µg/mL +/- 305.3597 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5 (Lot 10129902) **Purity** 99%	2,522.8 µg/mL	+/- 14.8052 µg/mL +/- 152.2250 µg/mL +/- 152.5864 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6 (Lot MKBH4379V) **Purity** 99%	5,048.0 µg/mL	+/- 29.5572 µg/mL +/- 304.5883 µg/mL +/- 305.3113 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4 (Lot SHBH0056V) **Purity** 99%	2,522.0 µg/mL	+/- 14.8005 µg/mL +/- 152.1767 µg/mL +/- 152.5380 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

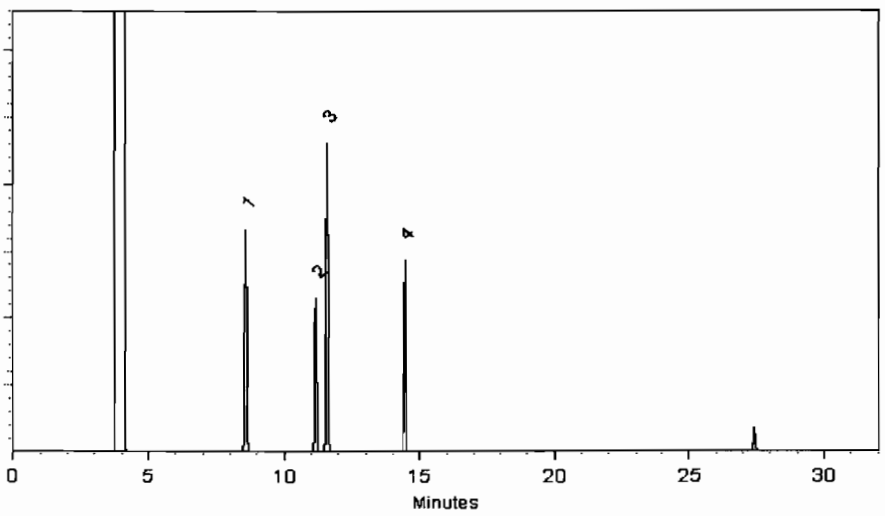
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 21-Feb-2018 **Balance:** B707717271

Amanda Miller - Operations Tech-ARM QC

Date Passed: 23-Feb-2018

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Method 8260C DOD

Volatile Organic Compounds (GC/MS) by Method 8260C DOD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-VMS40 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
6MW2011	490-175605-1	98	101	104	110
6MW2511	490-175605-2	96	95	105	114
6MW2611	490-175605-3	98	103	103	114
6MW2311	490-175605-4	98	103	102	108
6MW2211	490-175605-5	99	103	104	108
6MW2411	490-175605-6	99	102	103	112
FB07	490-175605-7	100	103	105	111
TB	490-175605-8	100	103	105	110
6MW2011D	490-175605-9	101	104	107	111
	MB 160-431879/7	97	96	110	108
	LCS 160-431879/4	101	101	103	104
	LCSD 160-431879/5	101	99	104	106
6MW2011MS MS	490-175605-1 MS	101	100	104	109
6MW2011MSD MSD	490-175605-1 MSD	100	98	103	107

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	80-119
DCA = 1,2-Dichloroethane-d4 (Surr)	81-118
TOL = Toluene-d8 (Surr)	89-112
BFB = 4-Bromofluorobenzene (Surr)	85-114

Column to be used to flag recovery values

FORM II 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LLCS4869.D

Lab ID: LCS 160-431879/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	49.9	100	78-124	
1,1,1-Trichloroethane	50.0	49.8	100	74-131	
1,1,2,2-Tetrachloroethane	50.0	51.8	104	71-121	
1,1,2-Trichloroethane	50.0	50.0	100	80-119	
1,1-Dichloroethane	50.0	50.7	101	77-125	
1,1-Dichloroethene	50.0	52.9	106	71-131	
1,1-Dichloropropene	50.0	52.7	105	79-125	
1,2,3-Trichlorobenzene	50.0	56.6	113	69-129	
1,2,3-Trichloropropane	50.0	50.5	101	73-122	
1,2,4-Trimethylbenzene	50.0	52.2	104	76-124	
1,2-Dibromo-3-Chloropropane	50.0	56.4	113	62-128	
1,2-Dibromoethane	50.0	51.0	102	80-120	
1,2-Dichloroethane	50.0	49.8	100	73-128	
1,2-Dichloropropane	50.0	51.3	103	78-122	
1,3,5-Trimethylbenzene	50.0	52.6	105	75-124	
1,3-Dichloropropane	50.0	51.0	102	80-119	
2,2-Dichloropropane	50.0	51.4	103	60-139	
2-Butanone (MEK)	50.0	56.7	113	56-143	M
2-Chlorotoluene	50.0	50.6	101	79-122	
2-Hexanone	50.0	52.8	106	57-139	
4-Chlorotoluene	50.0	51.3	103	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	56.8	114	67-130	
Acetone	50.0	55.0	110	39-160	
Benzene	50.0	50.4	101	79-120	
Bromobenzene	50.0	50.4	101	80-120	
Bromochloromethane	50.0	50.3	101	78-123	
Bromodichloromethane	50.0	51.1	102	79-125	
Bromoform	50.0	54.8	110	66-130	
Bromomethane	50.0	48.5	97	53-141	
Carbon disulfide	50.0	52.9	106	64-133	
Carbon tetrachloride	50.0	49.7	99	72-136	
Chlorobenzene	50.0	49.3	99	82-118	
Chloroethane	50.0	53.2	106	60-138	
Chloroform	50.0	48.4	97	79-124	
Chloromethane	50.0	50.8	102	50-139	
cis-1,2-Dichloroethene	50.0	51.2	102	78-123	
cis-1,3-Dichloropropene	50.0	53.8	108	75-124	
Dibromochloromethane	50.0	51.4	103	74-126	
Dibromomethane	50.0	50.3	101	79-123	
Dichlorodifluoromethane	50.0	57.3	115	32-152	
Ethylbenzene	50.0	50.4	101	79-121	
Isopropylbenzene	50.0	51.7	103	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LLCS4869.D

Lab ID: LCS 160-431879/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	51.8	104	80-121	
Methyl tert-butyl ether	50.0	53.2	106	71-124	
Methylene Chloride	50.0	50.1	100	74-124	
Naphthalene	50.0	61.0	122	61-128	
n-Butylbenzene	50.0	53.7	107	75-128	
N-Propylbenzene	50.0	52.1	104	76-126	
o-Xylene	50.0	53.0	106	78-122	
p-Isopropyltoluene	50.0	52.4	105	77-127	
sec-Butylbenzene	50.0	51.4	103	77-126	
Styrene	50.0	54.1	108	78-123	
tert-Butylbenzene	50.0	51.4	103	78-124	
Tetrachloroethene	50.0	50.5	101	74-129	
Toluene	50.0	50.3	101	80-121	
trans-1,2-Dichloroethene	50.0	51.4	103	75-124	
trans-1,3-Dichloropropene	50.0	53.3	107	73-127	
Trichloroethene	50.0	49.6	99	79-123	
Trichlorofluoromethane	50.0	49.7	99	65-141	
Vinyl chloride	50.0	52.3	105	58-137	
Xylenes (total)	100	105	105	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LLCS4870.D

Lab ID: LCSD 160-431879/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	51.1	102	2	20	78-124	
1,1,1-Trichloroethane	50.0	50.8	102	2	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	50.3	101	3	20	71-121	
1,1,2-Trichloroethane	50.0	50.2	100	0	20	80-119	
1,1-Dichloroethane	50.0	51.4	103	1	20	77-125	
1,1-Dichloroethene	50.0	53.8	108	2	20	71-131	
1,1-Dichloropropene	50.0	53.7	107	2	20	79-125	
1,2,3-Trichlorobenzene	50.0	57.3	115	1	20	69-129	
1,2,3-Trichloropropane	50.0	50.2	100	1	20	73-122	
1,2,4-Trimethylbenzene	50.0	54.2	108	4	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	55.8	112	1	20	62-128	
1,2-Dibromoethane	50.0	51.4	103	1	20	80-120	
1,2-Dichloroethane	50.0	49.4	99	1	20	73-128	
1,2-Dichloropropane	50.0	52.0	104	1	20	78-122	
1,3,5-Trimethylbenzene	50.0	55.1	110	5	20	75-124	
1,3-Dichloropropane	50.0	51.0	102	0	20	80-119	
2,2-Dichloropropane	50.0	52.1	104	1	20	60-139	
2-Butanone (MEK)	50.0	55.0	110	3	20	56-143	M
2-Chlorotoluene	50.0	51.9	104	3	20	79-122	
2-Hexanone	50.0	50.0	100	5	20	57-139	
4-Chlorotoluene	50.0	53.4	107	4	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	56.1	112	1	20	67-130	
Acetone	50.0	49.9	100	10	20	39-160	
Benzene	50.0	50.7	101	1	20	79-120	
Bromobenzene	50.0	51.2	102	2	20	80-120	
Bromochloromethane	50.0	49.8	100	1	20	78-123	
Bromodichloromethane	50.0	51.4	103	1	20	79-125	
Bromoform	50.0	54.6	109	0	20	66-130	
Bromomethane	50.0	49.1	98	1	20	53-141	
Carbon disulfide	50.0	53.7	107	2	20	64-133	
Carbon tetrachloride	50.0	50.3	101	1	20	72-136	
Chlorobenzene	50.0	50.7	101	3	20	82-118	
Chloroethane	50.0	54.7	109	3	20	60-138	
Chloroform	50.0	50.2	100	4	20	79-124	
Chloromethane	50.0	51.1	102	1	20	50-139	
cis-1,2-Dichloroethene	50.0	51.8	104	1	20	78-123	
cis-1,3-Dichloropropene	50.0	53.8	108	0	20	75-124	
Dibromochloromethane	50.0	51.7	103	1	20	74-126	
Dibromomethane	50.0	50.0	100	1	20	79-123	
Dichlorodifluoromethane	50.0	57.9	116	1	20	32-152	
Ethylbenzene	50.0	51.9	104	3	20	79-121	
Isopropylbenzene	50.0	54.2	108	5	20	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LLCS4870.D

Lab ID: LCSD 160-431879/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m,p-Xylenes	50.0	53.3	107	3	20	80-121	
Methyl tert-butyl ether	50.0	52.4	105	2	20	71-124	
Methylene Chloride	50.0	50.4	101	0	20	74-124	
Naphthalene	50.0	61.1	122	0	20	61-128	
n-Butylbenzene	50.0	55.5	111	3	20	75-128	
N-Propylbenzene	50.0	54.7	109	5	20	76-126	
o-Xylene	50.0	54.6	109	3	20	78-122	
p-Isopropyltoluene	50.0	54.7	109	4	20	77-127	
sec-Butylbenzene	50.0	54.0	108	5	20	77-126	
Styrene	50.0	55.6	111	3	20	78-123	
tert-Butylbenzene	50.0	53.8	108	5	20	78-124	
Tetrachloroethene	50.0	52.4	105	4	20	74-129	
Toluene	50.0	52.2	104	4	20	80-121	
trans-1,2-Dichloroethene	50.0	52.7	105	2	20	75-124	
trans-1,3-Dichloropropene	50.0	53.9	108	1	20	73-127	
Trichloroethene	50.0	51.4	103	4	20	79-123	
Trichlorofluoromethane	50.0	50.8	102	2	20	65-141	
Vinyl chloride	50.0	53.1	106	2	20	58-137	
Xylenes (total)	100	108	108	3	20	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LSMP4874.D

Lab ID: 490-175605-1 MS Client ID: 6MW2011MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	2.5 U	49.9	100	78-124	
1,1,1-Trichloroethane	50.0	2.5 U	49.5	99	74-131	
1,1,2,2-Tetrachloroethane	50.0	2.5 U	51.1	102	71-121	
1,1,2-Trichloroethane	50.0	2.5 U	50.1	100	80-119	
1,1-Dichloroethane	50.0	2.5 U	50.7	101	77-125	
1,1-Dichloroethene	50.0	2.5 U	52.7	105	71-131	
1,1-Dichloropropene	50.0	2.5 U	52.3	105	79-125	
1,2,3-Trichlorobenzene	50.0	2.5 U	53.0	106	69-129	
1,2,3-Trichloropropane	50.0	2.5 U	50.4	101	73-122	
1,2,4-Trimethylbenzene	50.0	2.5 U	52.8	106	76-124	
1,2-Dibromo-3-Chloropropane	50.0	5.0 U	52.0	104	62-128	
1,2-Dibromoethane	50.0	2.5 U	51.1	102	80-120	
1,2-Dichloroethane	50.0	2.5 U	49.8	100	73-128	
1,2-Dichloropropane	50.0	2.5 U	52.0	104	78-122	
1,3,5-Trimethylbenzene	50.0	2.5 U	53.6	107	75-124	
1,3-Dichloropropane	50.0	2.5 U	51.5	103	80-119	
2,2-Dichloropropane	50.0	2.5 U	51.7	103	60-139	
2-Butanone (MEK)	50.0	29	82.2	107	56-143	
2-Chlorotoluene	50.0	2.5 U	50.9	102	79-122	
2-Hexanone	50.0	5.0 U	48.0	96	57-139	
4-Chlorotoluene	50.0	2.5 U	52.5	105	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	10 U	54.3	109	67-130	
Acetone	50.0	10 J	57.8	96	39-160	
Benzene	50.0	2.5 U	50.5	101	79-120	
Bromobenzene	50.0	2.5 U	51.1	102	80-120	
Bromochloromethane	50.0	2.5 U	49.9	100	78-123	
Bromodichloromethane	50.0	2.5 U	50.7	101	79-125	
Bromoform	50.0	2.5 U	52.6	105	66-130	
Bromomethane	50.0	5.0 U	48.6	97	53-141	
Carbon disulfide	50.0	2.5 U	52.2	104	64-133	
Carbon tetrachloride	50.0	2.5 U	48.9	98	72-136	
Chlorobenzene	50.0	2.5 U	50.1	100	82-118	
Chloroethane	50.0	2.5 U	18.2	36	60-138	J1
Chloroform	50.0	2.5 U	49.8	100	79-124	
Chloromethane	50.0	2.5 U	51.2	102	50-139	
cis-1,2-Dichloroethene	50.0	2.5 J	54.2	103	78-123	
cis-1,3-Dichloropropene	50.0	5.0 U	52.9	106	75-124	
Dibromochloromethane	50.0	2.5 U	51.4	103	74-126	
Dibromomethane	50.0	2.5 U	50.6	101	79-123	
Dichlorodifluoromethane	50.0	2.5 U	56.1	112	32-152	
Ethylbenzene	50.0	2.5 U	51.1	102	79-121	
Isopropylbenzene	50.0	2.5 U	53.2	106	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LSMP4874.D

Lab ID: 490-175605-1 MS Client ID: 6MW2011MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	2.5 U	52.6	105	80-121	
Methyl tert-butyl ether	50.0	2.5 U	52.3	105	71-124	
Methylene Chloride	50.0	5.0 U	51.4	103	74-124	
Naphthalene	50.0	5.0 U	54.1	108	61-128	
n-Butylbenzene	50.0	2.5 U	53.1	106	75-128	
N-Propylbenzene	50.0	2.5 U	53.1	106	76-126	
o-Xylene	50.0	2.5 U	53.6	107	78-122	
p-Isopropyltoluene	50.0	2.5 U	52.7	105	77-127	
sec-Butylbenzene	50.0	2.5 U	51.7	103	77-126	
Styrene	50.0	2.5 U	54.8	110	78-123	
tert-Butylbenzene	50.0	2.5 U	52.0	104	78-124	
Tetrachloroethene	50.0	2.5 U	50.5	101	74-129	
Toluene	50.0	5.0 U	52.0	104	80-121	
trans-1,2-Dichloroethene	50.0	2.5 U	51.7	103	75-124	
trans-1,3-Dichloropropene	50.0	2.5 U	54.4	109	73-127	
Trichloroethene	50.0	2.5 U	48.9	98	79-123	
Trichlorofluoromethane	50.0	2.5 U	40.1	80	65-141	
Vinyl chloride	50.0	1.6 J	52.8	102	58-137	
Xylenes (total)	100	5.0 U	106	106	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LSMP4875.D

Lab ID: 490-175605-1 MSD Client ID: 6MW2011MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	49.9	100	0	20	78-124	
1,1,1-Trichloroethane	50.0	49.4	99	0	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	51.4	103	1	20	71-121	
1,1,2-Trichloroethane	50.0	49.8	100	1	20	80-119	
1,1-Dichloroethane	50.0	50.7	101	0	20	77-125	
1,1-Dichloroethene	50.0	52.6	105	0	20	71-131	
1,1-Dichloropropene	50.0	52.9	106	1	20	79-125	
1,2,3-Trichlorobenzene	50.0	53.9	108	2	20	69-129	
1,2,3-Trichloropropane	50.0	49.2	98	2	20	73-122	
1,2,4-Trimethylbenzene	50.0	53.3	107	1	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	51.9	104	0	20	62-128	
1,2-Dibromoethane	50.0	50.9	102	0	20	80-120	
1,2-Dichloroethane	50.0	49.4	99	1	20	73-128	
1,2-Dichloropropane	50.0	51.4	103	1	20	78-122	
1,3,5-Trimethylbenzene	50.0	54.1	108	1	20	75-124	
1,3-Dichloropropane	50.0	51.0	102	1	20	80-119	
2,2-Dichloropropane	50.0	51.5	103	0	20	60-139	
2-Butanone (MEK)	50.0	78.8	100	4	20	56-143	
2-Chlorotoluene	50.0	51.2	102	0	20	79-122	
2-Hexanone	50.0	47.6	95	1	20	57-139	
4-Chlorotoluene	50.0	52.6	105	0	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	54.0	108	1	20	67-130	
Acetone	50.0	56.5	93	2	20	39-160	
Benzene	50.0	50.5	101	0	20	79-120	
Bromobenzene	50.0	51.6	103	1	20	80-120	
Bromochloromethane	50.0	49.2	98	1	20	78-123	
Bromodichloromethane	50.0	50.7	101	0	20	79-125	
Bromoform	50.0	52.1	104	1	20	66-130	
Bromomethane	50.0	50.0	100	3	20	53-141	
Carbon disulfide	50.0	52.4	105	0	20	64-133	
Carbon tetrachloride	50.0	48.6	97	1	20	72-136	
Chlorobenzene	50.0	50.2	100	0	20	82-118	
Chloroethane	50.0	18.8	38	3	20	60-138	J1
Chloroform	50.0	49.5	99	1	20	79-124	
Chloromethane	50.0	52.3	105	2	20	50-139	
cis-1,2-Dichloroethene	50.0	54.1	103	0	20	78-123	
cis-1,3-Dichloropropene	50.0	52.2	104	1	20	75-124	
Dibromochloromethane	50.0	51.0	102	1	20	74-126	
Dibromomethane	50.0	49.5	99	2	20	79-123	
Dichlorodifluoromethane	50.0	56.0	112	0	20	32-152	
Ethylbenzene	50.0	51.3	103	0	20	79-121	
Isopropylbenzene	50.0	53.8	108	1	20	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LSMP4875.D

Lab ID: 490-175605-1 MSD Client ID: 6MW2011MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m,p-Xylenes	50.0	52.7	105	0	20	80-121	
Methyl tert-butyl ether	50.0	51.8	104	1	20	71-124	
Methylene Chloride	50.0	51.5	103	0	20	74-124	
Naphthalene	50.0	55.5	111	3	20	61-128	
n-Butylbenzene	50.0	53.7	107	1	20	75-128	
N-Propylbenzene	50.0	53.5	107	1	20	76-126	
o-Xylene	50.0	54.0	108	1	20	78-122	
p-Isopropyltoluene	50.0	53.1	106	1	20	77-127	
sec-Butylbenzene	50.0	52.2	104	1	20	77-126	
Styrene	50.0	54.9	110	0	20	78-123	
tert-Butylbenzene	50.0	52.9	106	2	20	78-124	
Tetrachloroethene	50.0	50.8	102	1	20	74-129	
Toluene	50.0	52.1	104	0	20	80-121	
trans-1,2-Dichloroethene	50.0	51.9	104	0	20	75-124	
trans-1,3-Dichloropropene	50.0	53.2	106	2	20	73-127	
Trichloroethene	50.0	48.7	97	0	20	79-123	
Trichlorofluoromethane	50.0	44.3	89	10	20	65-141	
Vinyl chloride	50.0	54.2	105	3	20	58-137	
Xylenes (total)	100	107	107	0	20	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Lab File ID: LBLK4872.D Lab Sample ID: MB 160-431879/7

Matrix: Water Heated Purge:(Y/N) Y

Instrument ID: VMSL Date Analyzed: 06/17/2019 12:49

GC Column: RTX-VMS40 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 160-431879/4	LLCS4869.D	06/17/2019 11:34
	LCSD 160-431879/5	LLCS4870.D	06/17/2019 11:59
6MW2011	490-175605-1	LSMP4873.D	06/17/2019 13:15
6MW2011MS MS	490-175605-1 MS	LSMP4874.D	06/17/2019 13:40
6MW2011MSD MSD	490-175605-1 MSD	LSMP4875.D	06/17/2019 14:05
6MW2511	490-175605-2	LSMP4877.D	06/17/2019 14:55
6MW2611	490-175605-3	LSMP4878.D	06/17/2019 15:20
6MW2311	490-175605-4	LSMP4879.D	06/17/2019 15:46
6MW2211	490-175605-5	LSMP4880.D	06/17/2019 16:11
6MW2411	490-175605-6	LSMP4881.D	06/17/2019 16:36
FB07	490-175605-7	LSMP4882.D	06/17/2019 17:01
TB	490-175605-8	LSMP4883.D	06/17/2019 17:26
6MW2011D	490-175605-9	LSMP4884.D	06/17/2019 17:51

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Lab File ID: LBFB4768.D BFB Injection Date: 05/23/2019

Instrument ID: VMSL BFB Injection Time: 10:42

Analysis Batch No.: 429557

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.8	
75	30.0 - 60.0 % of mass 95	51.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	79.2	
175	5.0 - 9.0 % of mass 174	5.8	(7.3) 1
176	95.0 - 101.0 % of mass 174	77.4	(97.7) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 160-429557/4	LICL4770.D	05/23/2019	11:32
	IC 160-429557/5	LICL4771.D	05/23/2019	11:57
	IC 160-429557/6	LICL4772.D	05/23/2019	12:22
	IC 160-429557/7	LICL4773.D	05/23/2019	12:46
	IC 160-429557/8	LICL4774.D	05/23/2019	13:11
	ICIS 160-429557/9	LICL4775.D	05/23/2019	13:36
	IC 160-429557/10	LICL4776.D	05/23/2019	14:01
	IC 160-429557/11	LICL4777.D	05/23/2019	14:26
	ICV 160-429557/14	LICV4780.D	05/23/2019	15:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Lab File ID: LBFB4867.D BFB Injection Date: 06/17/2019

Instrument ID: VMSL BFB Injection Time: 10:40

Analysis Batch No.: 431879

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.7	
75	30.0 - 60.0 % of mass 95	51.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	81.1	
175	5.0 - 9.0 % of mass 174	6.0	(7.4) 1
176	95.0 - 101.0 % of mass 174	78.1	(96.3) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 160-431879/3	LCCV4868.D	06/17/2019	11:09
	LCS 160-431879/4	LLCS4869.D	06/17/2019	11:34
	LCSD 160-431879/5	LLCS4870.D	06/17/2019	11:59
	MB 160-431879/7	LBLK4872.D	06/17/2019	12:49
6MW2011	490-175605-1	LSMP4873.D	06/17/2019	13:15
6MW2011MS MS	490-175605-1 MS	LSMP4874.D	06/17/2019	13:40
6MW2011MSD MSD	490-175605-1 MSD	LSMP4875.D	06/17/2019	14:05
6MW2511	490-175605-2	LSMP4877.D	06/17/2019	14:55
6MW2611	490-175605-3	LSMP4878.D	06/17/2019	15:20
6MW2311	490-175605-4	LSMP4879.D	06/17/2019	15:46
6MW2211	490-175605-5	LSMP4880.D	06/17/2019	16:11
6MW2411	490-175605-6	LSMP4881.D	06/17/2019	16:36
FB07	490-175605-7	LSMP4882.D	06/17/2019	17:01
TB	490-175605-8	LSMP4883.D	06/17/2019	17:26
6MW2011D	490-175605-9	LSMP4884.D	06/17/2019	17:51
	CCVC 160-431879/20	LSMP4885.D	06/17/2019	18:17

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

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Sample No.: ICIS 160-429557/9 Date Analyzed: 05/23/2019 13:36

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm)

Lab File ID (Standard): LICL4775.D Heated Purge: (Y/N) Y

Calibration ID: 15801

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1550648	9.04	965523	11.88	457913	14.06
UPPER LIMIT		3101296	9.54	1931046	12.38	915826	14.56
LOWER LIMIT		775324	8.54	482762	11.38	228957	13.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 160-429557/14		1606917	9.04	978512	11.89	459816	14.06
CCV 160-431879/3		1502970	9.04	946907	11.88	446072	14.06
LCS 160-431879/4		1524579	9.04	957278	11.88	455062	14.06
LCSD 160-431879/5		1544708	9.04	953917	11.88	451323	14.06
MB 160-431879/7		1416365	9.04	832654	11.88	387391	14.06
490-175605-1	6MW2011	1458023	9.04	893920	11.88	419999	14.06
490-175605-1 MS	6MW2011MS MS	1557361	9.04	963383	11.88	454603	14.06
490-175605-1 MSD	6MW2011MSD MSD	1538011	9.04	952178	11.88	447382	14.06
490-175605-2	6MW2511	1417382	9.04	852093	11.88	379053	14.06
490-175605-3	6MW2611	1469915	9.04	899634	11.88	414523	14.06
490-175605-4	6MW2311	1455936	9.04	891795	11.88	412735	14.06
490-175605-5	6MW2211	1357118	9.04	824822	11.88	387131	14.06
490-175605-6	6MW2411	1442764	9.04	884931	11.88	408993	14.06
490-175605-7	FB07	1460955	9.04	896936	11.88	421682	14.06
490-175605-8	TB	1423202	9.04	867650	11.88	405713	14.06
490-175605-9	6MW2011D	1408908	9.04	846216	11.88	393121	14.06
CCVC 160-431879/20		1516963	9.04	942945	11.88	439844	14.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C DOD

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2011 Lab Sample ID: 490-175605-1

Matrix: Water Lab File ID: LSMP4873.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 12:40

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 13:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	2.5	U	5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	29		20	5.0	2.4
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U M	20	5.0	4.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	4.6
67-64-1	Acetone	10	J	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.81
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.72
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.77
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	1.0
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.59
75-00-3	Chloroethane	2.5	U J1	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.77
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	2.5	J	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2011 Lab Sample ID: 490-175605-1

Matrix: Water Lab File ID: LSMP4873.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 12:40

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 13:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.97
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.6
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.6
75-01-4	Vinyl chloride	1.6	J	5.0	2.0	1.0
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		81-118
460-00-4	4-Bromofluorobenzene (Surr)	110		85-114
1868-53-7	Dibromofluoromethane (Surr)	98		80-119
2037-26-5	Toluene-d8 (Surr)	104		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4873.D
Lims ID: 490-175605-A-1
Client ID: 6MW2011
Sample Type: Client
Inject. Date: 17-Jun-2019 13:15:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-008
Misc. Info.: 490-175605-b-1
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:44 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 14:42:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.150				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.388				ND	
3 Chloromethane	50		3.500				ND	
4 Vinyl chloride	62	3.667	3.667	0.000	95	17464	1.64	
122 Butadiene	39		3.695				ND	
5 Bromomethane	94	4.268	4.268	0.000	83	5620	1.22	
6 Chloroethane	64		4.477				ND	
7 Trichlorofluoromethane	101		4.715				ND	
123 Dichlorofluoromethane	67		4.826				ND	
8 Ethyl ether	74		5.231				ND	
11 Ethanol	45		5.455				ND	U
9 1,1-Dichloroethene	96		5.525				ND	
10 Carbon disulfide	76		5.567				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.581				ND	
13 Iodomethane	142		5.748				ND	
S 26 1,2-Dichloroethene, Total	96				0		2.70	
14 Acrolein	56		6.014				ND	
15 3-Chloro-1-propene	39		6.181				ND	
16 Isopropyl alcohol	45	6.237	6.209	0.028	97	5839	28.2	
17 Methylene Chloride	84		6.321				ND	
18 Acetone	43	6.404	6.391	0.013	99	9901	9.99	
19 trans-1,2-Dichloroethene	96	6.516	6.516	0.000	90	1823	0.2414	
20 Methyl acetate	74	6.544	6.530	0.014	97	3505	16.7	
21 Hexane	86	6.600	6.600	0.000	66	1829	0.6951	
22 Methyl tert-butyl ether	73		6.642				ND	
23 2-Methyl-2-propanol	59		6.740				ND	
24 Acetonitrile	41		6.963				ND	
25 Isopropyl ether	45		7.061				ND	
27 2-Chloro-1,3-butadiene	53		7.215				ND	
28 1,1-Dichloroethane	63		7.243				ND	
29 Acrylonitrile	53		7.312				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.452				ND	
31 Vinyl acetate	43		7.480				ND	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	81	17991	2.46	
33 2,2-Dichloropropane	77		7.927				ND	
34 Cyclohexane	84		8.025				ND	
35 Chlorobromomethane	128		8.025				ND	
36 Chloroform	83		8.081				ND	
39 Ethyl acetate	45	8.164	8.164	0.000	88	1927	3.91	
37 Carbon tetrachloride	117		8.234				ND	
38 Tetrahydrofuran	71	8.262	8.248	0.014	26	1139	3.14	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	266669	49.0	
40 1,1,1-Trichloroethane	97		8.304				ND	
43 2-Butanone (MEK)	43	8.388	8.374	0.014	100	42042	28.7	
42 1,1-Dichloropropene	75		8.416				ND	
125 Isooctane	57		8.486				ND	
117 n-Heptane	43		8.555				ND	
44 Benzene	78		8.653				ND	
45 Propionitrile	54		8.681				ND	
46 Methacrylonitrile	41		8.695				ND	
48 Tert-amyl methyl ether	73		8.723				ND	
50 Isobutyl alcohol	42		8.779				ND	U
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	99	322972	50.7	
49 1,2-Dichloroethane	62		8.849				ND	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1458023	50.0	
118 1,4-Difluorobenzene	114		9.130				ND	
52 Methylcyclohexane	55		9.184				ND	
53 Trichloroethene	95		9.198				ND	
54 n-Butanol	56		9.421				ND	U
55 Dibromomethane	93		9.603				ND	
124 Ethyl acrylate	55		9.631				ND	U
56 1,2-Dichloropropane	63		9.687				ND	
57 Dichlorobromomethane	83		9.729				ND	
58 Methyl methacrylate	69		9.812				ND	
59 1,4-Dioxane	88		9.896				ND	
60 2-Chloroethyl vinyl ether	63		10.203				ND	
128 2-Pentanone	43		10.253				ND	
61 cis-1,3-Dichloropropene	75		10.287				ND	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	1346417	51.9	
63 Toluene	92	10.511	10.511	0.000	98	11786	0.6125	
64 2-Nitropropane	43		10.734				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.818				ND	
65 Tetrachloroethene	164		10.860				ND	
67 trans-1,3-Dichloropropene	75		10.874				ND	
69 Ethyl methacrylate	69		10.944				ND	
68 1,1,2-Trichloroethane	83		11.027				ND	
70 Chlorodibromomethane	129		11.209				ND	
71 1,3-Dichloropropane	76		11.279				ND	
119 n-Butyl acetate	43		11.432				ND	
72 Ethylene Dibromide	107		11.446				ND	
74 2-Hexanone	43		11.558				ND	U
S 73 1,3-Dichloropropene, Total	75		11.620				ND	
75 1-Chlorohexane	91		11.824				ND	U

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	90	893920	50.0	
78 Ethylbenzene	91		11.879				ND	
77 Chlorobenzene	112		11.893				ND	
79 1,1,1,2-Tetrachloroethane	131		11.935				ND	
80 m-Xylene & p-Xylene	106		12.005				ND	
82 o-Xylene	106		12.410				ND	
83 Styrene	104		12.466				ND	
84 Bromoform	173		12.536				ND	
85 Isopropylbenzene	105		12.689				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.014	96	468073	55.0	
88 N-Propylbenzene	91		13.080				ND	
87 Bromobenzene	156		13.108				ND	
89 1,1,2,2-Tetrachloroethane	83		13.136				ND	
91 1,3,5-Trimethylbenzene	105		13.234				ND	
90 2-Chlorotoluene	91		13.262				ND	
92 1,2,3-Trichloropropane	110		13.304				ND	
93 trans-1,4-Dichloro-2-buten	53		13.318				ND	
94 Cyclohexanone	55		13.374				ND	U
95 4-Chlorotoluene	91		13.416				ND	
96 tert-Butylbenzene	119		13.555				ND	
81 Pentachloroethane	167		13.557				ND	
97 1,2,4-Trimethylbenzene	105		13.625				ND	
98 sec-Butylbenzene	105		13.723				ND	
99 4-Isopropyltoluene	119		13.849				ND	
100 1,3-Dichlorobenzene	146		13.988				ND	
120 1,2,3-Trimethylbenzene	105		14.058				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	419999	50.0	
102 1,4-Dichlorobenzene	146		14.072				ND	
103 n-Butylbenzene	134		14.268				ND	
121 Benzyl chloride	126		14.296				ND	
104 1,2-Dichlorobenzene	146		14.491				ND	
106 n-Nonyl Aldehyde	57		15.203				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.287				ND	
107 1,3,5-Trichlorobenzene	180		15.301				ND	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	76	1922	0.2682	
109 1,2,4-Trichlorobenzene	180		15.944				ND	
110 Naphthalene	128		16.307				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.502				ND	
127 2-Methylpentane	1		0.000				ND	
S 113 Trihalomethanes, Total	1		0.000				ND	
126 C6-C12	1		0.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

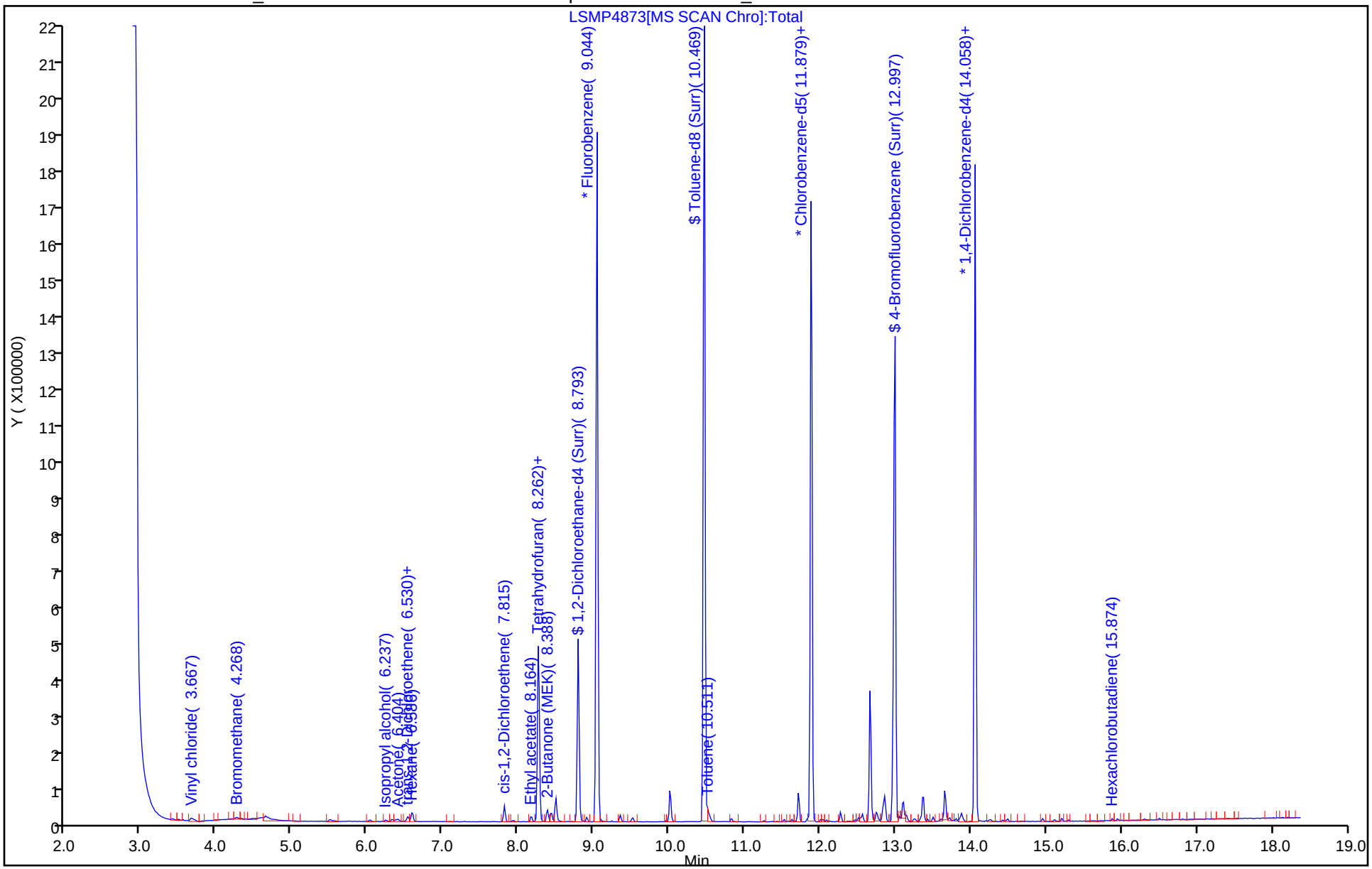
Reagents:

I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:52 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4873.D				
Injection Date:	17-Jun-2019 13:15:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	490-175605-A-1	Lab Sample ID:	160-175605-1	Worklist Smp#:	8
Client ID:	6MW2011				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4873.D
Lims ID: 490-175605-A-1
Client ID: 6MW2011
Sample Type: Client
Inject. Date: 17-Jun-2019 13:15:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-008
Misc. Info.: 490-175605-b-1
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:44 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 14:42:41

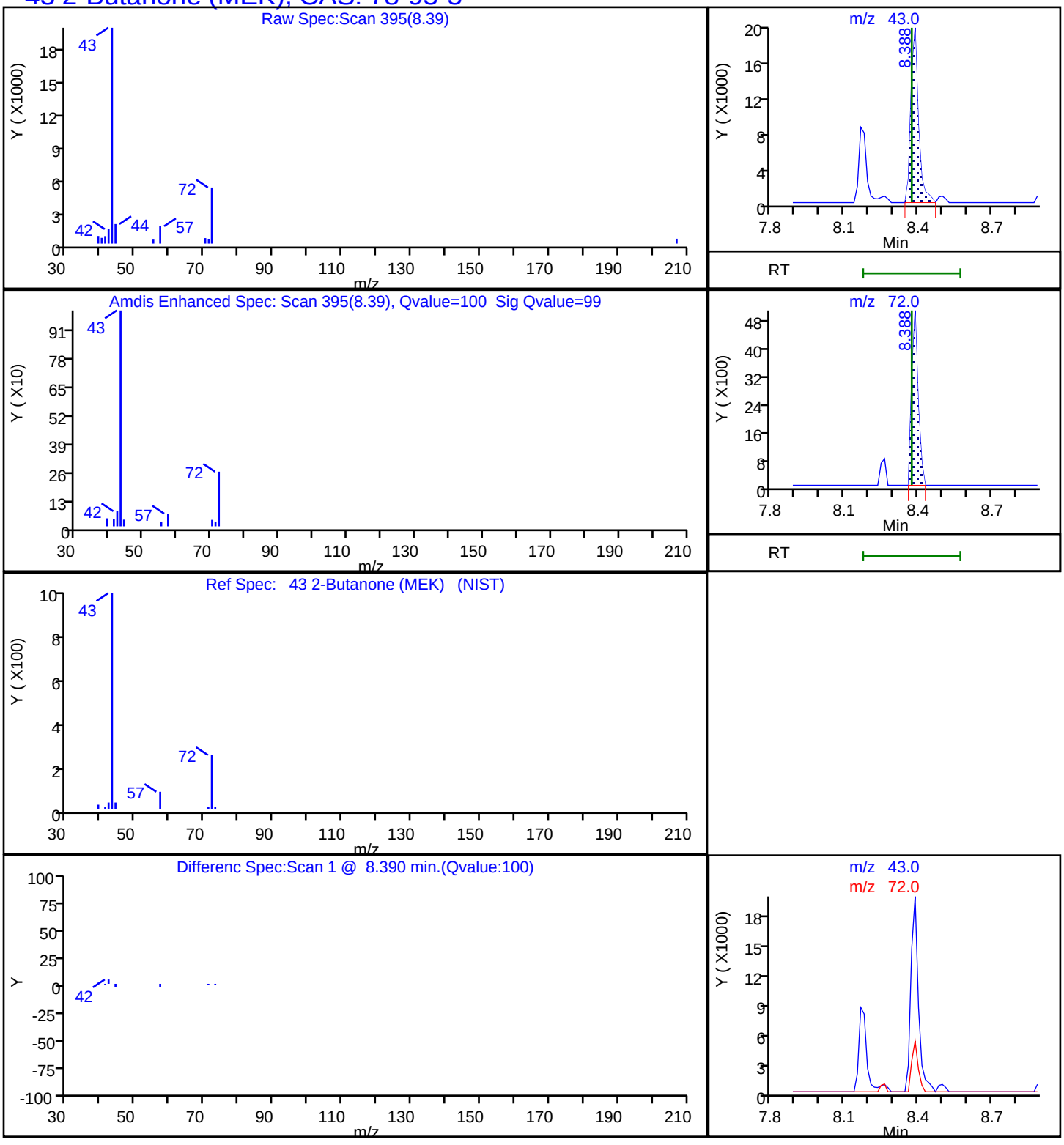
Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.0	97.93
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.7	101.44
$ 62 Toluene-d8 (Surr)	50.0	51.9	103.72
$ 86 4-Bromofluorobenzene (Surr)	50.0	55.0	109.95

Report Date: 20-Jun-2019 11:43:52 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4873.D		
Injection Date:	17-Jun-2019 13:15:30	Instrument ID:	VMSL
Lims ID:	490-175605-A-1	Lab Sample ID:	160-175605-1
Client ID:	6MW2011		
Operator ID:	KA	ALS Bottle#:	7 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

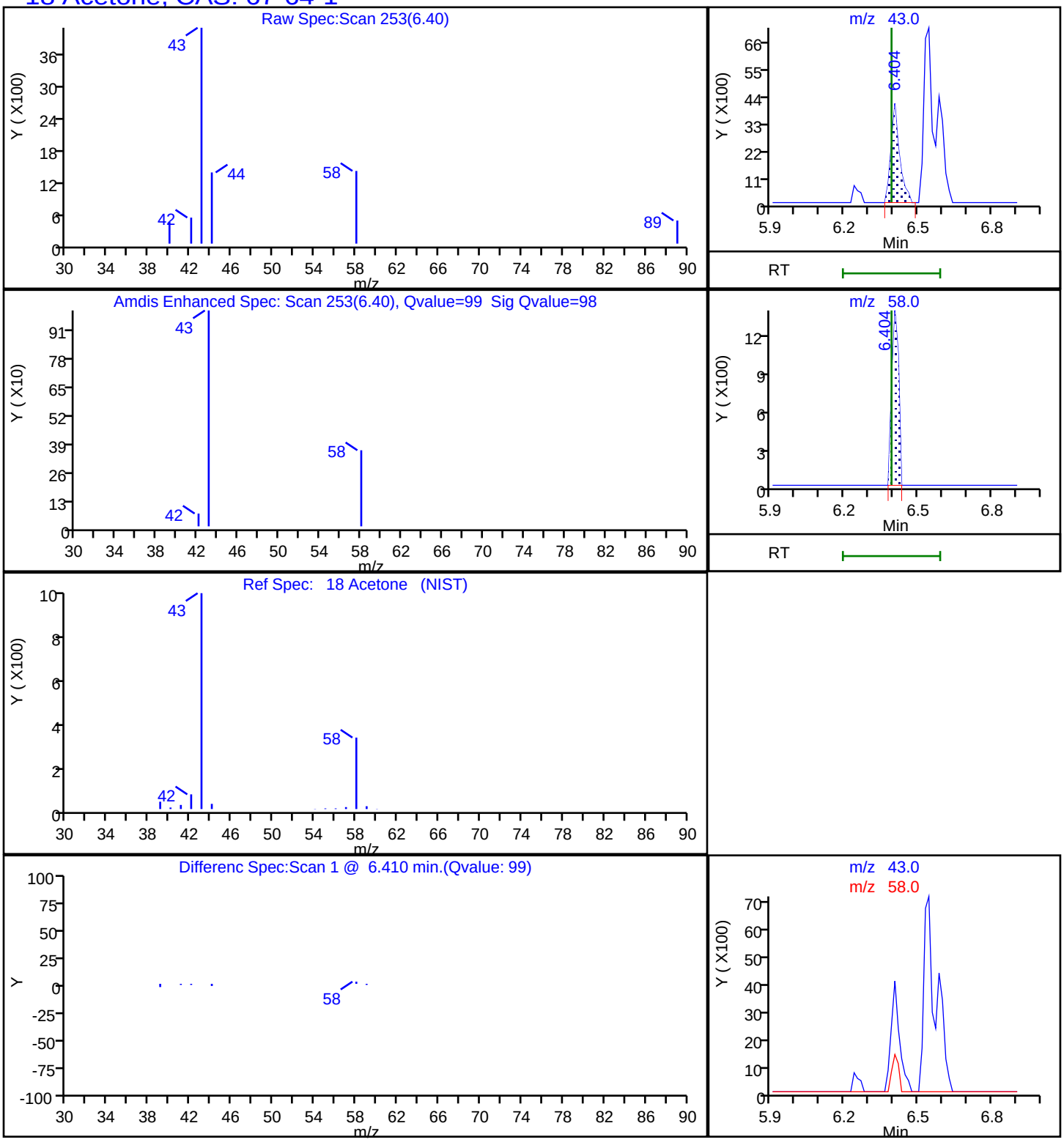


Report Date: 20-Jun-2019 11:43:52 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4873.D		
Injection Date:	17-Jun-2019 13:15:30	Instrument ID:	VMSL
Lims ID:	490-175605-A-1	Lab Sample ID:	160-175605-1
Client ID:	6MW2011		
Operator ID:	KA	ALS Bottle#:	7 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

18 Acetone, CAS: 67-64-1



Report Date: 20-Jun-2019 11:43:52 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4873.D

Injection Date: 17-Jun-2019 13:15:30 Instrument ID: VMSL

Lims ID: 490-175605-A-1 Lab Sample ID: 160-175605-1

Client ID: 6MW2011

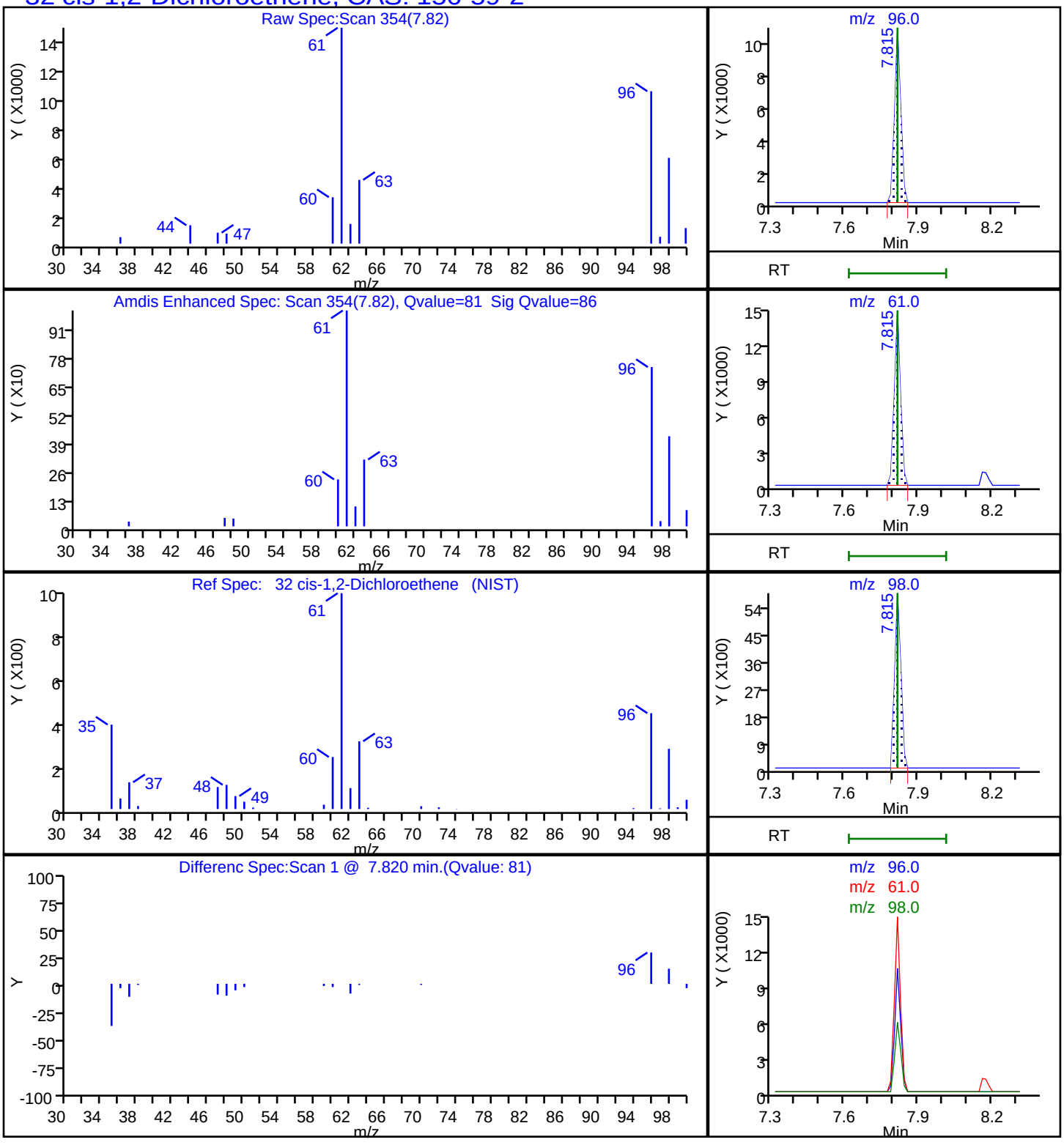
Operator ID: KA ALS Bottle#: 7 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD

Column: Detector MS SCAN

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



Report Date: 20-Jun-2019 11:43:52 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4873.D

Injection Date: 17-Jun-2019 13:15:30 Instrument ID: VMSL

Lims ID: 490-175605-A-1 Lab Sample ID: 160-175605-1

Client ID: 6MW2011

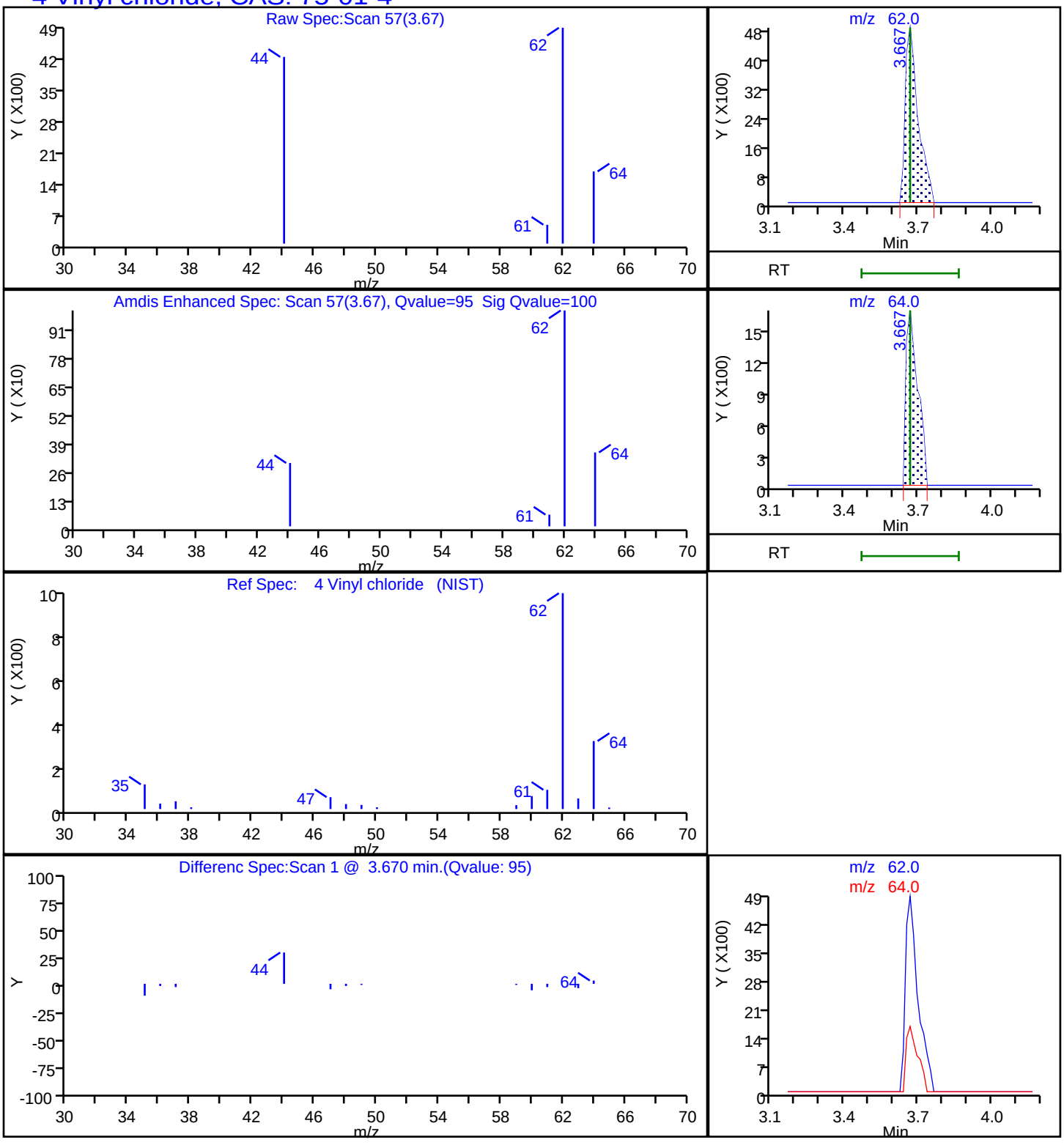
Operator ID: KA ALS Bottle#: 7 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD

Column: Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4



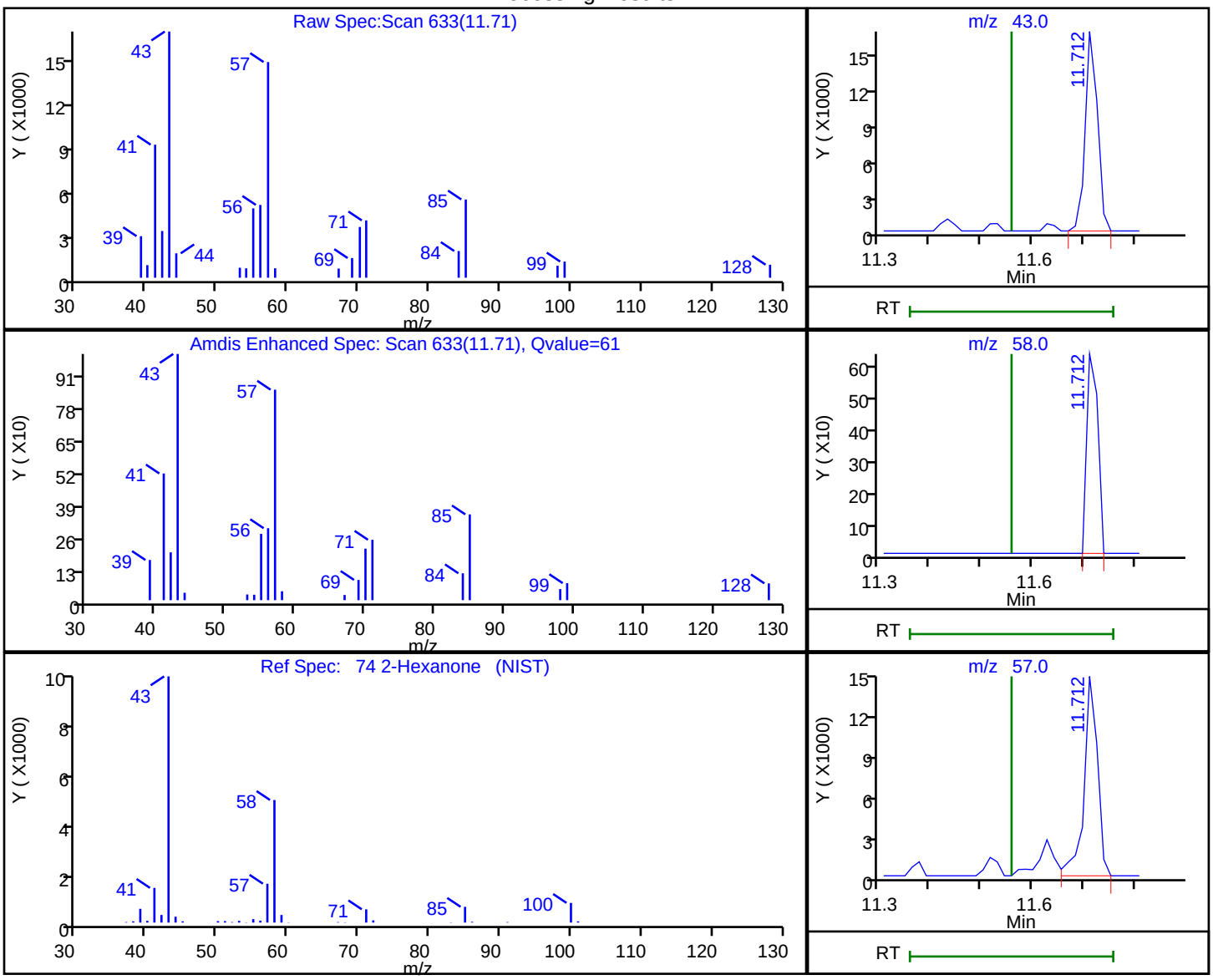
User Disabled Compound Report

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4873.D				
Injection Date:	17-Jun-2019 13:15:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-1	Lab Sample ID:	160-175605-1		
Client ID:	6MW2011				
Operator ID:	KA	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

74 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
11.71	43.00	27655	14.665640
11.71	58.00	956	
11.71	57.00	26647	

Reviewer: aguk, 17-Jun-2019 14:46:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2511 Lab Sample ID: 490-175605-2

Matrix: Water Lab File ID: LSMP4877.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 14:00

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 14:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	2.5	U	5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	24		20	5.0	2.4
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U M	20	5.0	4.6
106-43-4	4-Chlorotoluene	2.5	U M	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	4.6
67-64-1	Acetone	6.3	J	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.81
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.72
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.77
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	1.0
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.59
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.77
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	6.1		5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2511 Lab Sample ID: 490-175605-2

Matrix: Water Lab File ID: LSMP4877.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 14:00

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 14:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.97
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.6
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	0.81	J	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.6
75-01-4	Vinyl chloride	15		5.0	2.0	1.0
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		81-118
460-00-4	4-Bromofluorobenzene (Surr)	114		85-114
1868-53-7	Dibromofluoromethane (Surr)	96		80-119
2037-26-5	Toluene-d8 (Surr)	105		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4877.D
Lims ID: 490-175605-A-2
Client ID: 6MW2511
Sample Type: Client
Inject. Date: 17-Jun-2019 14:55:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-012
Misc. Info.: 490-175605-a-2
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 16:02:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.150				ND	
3 Chloromethane	50		3.500				ND	
4 Vinyl chloride	62	3.667	3.667	0.000	98	157650	15.3	
5 Bromomethane	94	4.268	4.268	0.000	92	6557	1.46	
6 Chloroethane	64		4.477				ND	
7 Trichlorofluoromethane	101		4.715				ND	
9 1,1-Dichloroethene	96		5.525				ND	
10 Carbon disulfide	76		5.567				ND	
17 Methylene Chloride	84		6.321				ND	
18 Acetone	43	6.404	6.391	0.013	96	6101	6.33	
19 trans-1,2-Dichloroethene	96	6.516	6.516	0.000	92	5977	0.8141	
22 Methyl tert-butyl ether	73		6.642				ND	
28 1,1-Dichloroethane	63		7.243				ND	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	81	43101	6.07	
33 2,2-Dichloropropane	77		7.927				ND	
35 Chlorobromomethane	128		8.025				ND	
36 Chloroform	83		8.081				ND	
37 Carbon tetrachloride	117		8.234				ND	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	252864	47.8	
40 1,1,1-Trichloroethane	97		8.304				ND	
43 2-Butanone (MEK)	43	8.388	8.374	0.014	99	34265	24.1	
42 1,1-Dichloropropene	75		8.416				ND	
44 Benzene	78		8.653				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	293250	47.4	
49 1,2-Dichloroethane	62		8.849				ND	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1417382	50.0	
53 Trichloroethene	95	9.198	9.198	0.000	90	3361	0.4228	
55 Dibromomethane	93		9.603				ND	
56 1,2-Dichloropropane	63		9.687				ND	
57 Dichlorobromomethane	83		9.729				ND	
61 cis-1,3-Dichloropropene	75		10.287				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	94	1304677	52.7	
63 Toluene	92	10.511	10.511	0.000	98	12916	0.7042	
66 4-Methyl-2-pentanone (MIBK	43		10.818				ND	
65 Tetrachloroethene	164		10.860				ND	
67 trans-1,3-Dichloropropene	75		10.874				ND	
68 1,1,2-Trichloroethane	83		11.027				ND	
70 Chlorodibromomethane	129		11.209				ND	
71 1,3-Dichloropropane	76		11.279				ND	
72 Ethylene Dibromide	107		11.446				ND	
74 2-Hexanone	43		11.558				ND	U
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	91	852093	50.0	
78 Ethylbenzene	91		11.879				ND	
77 Chlorobenzene	112		11.893				ND	
79 1,1,1,2-Tetrachloroethane	131		11.935				ND	
80 m-Xylene & p-Xylene	106		12.005				ND	
82 o-Xylene	106		12.410				ND	
83 Styrene	104		12.466				ND	
84 Bromoform	173		12.536				ND	
85 Isopropylbenzene	105		12.689				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.014	92	438644	57.1	
88 N-Propylbenzene	91	13.080	13.080	0.000	97	8160	0.2091	
87 Bromobenzene	156		13.108				ND	
89 1,1,2,2-Tetrachloroethane	83		13.136				ND	
91 1,3,5-Trimethylbenzene	105		13.234				ND	
90 2-Chlorotoluene	91		13.262				ND	
92 1,2,3-Trichloropropane	110		13.304				ND	
95 4-Chlorotoluene	91		13.416				ND	U
96 tert-Butylbenzene	119	13.569	13.555	0.014	90	5278	0.2452	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	93	5839	0.2411	
98 sec-Butylbenzene	105	13.737	13.723	0.014	95	11080	0.3178	
99 4-Isopropyltoluene	119	13.849	13.849	-0.001	95	8455	0.3074	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	379053	50.0	
103 n-Butylbenzene	134	14.267	14.268	-0.001	63	2231	0.3451	
105 1,2-Dibromo-3-Chloropropan	157		15.287				ND	
110 Naphthalene	128	16.307	16.307	0.000	96	10734	1.35	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	94	9828	1.70	

QC Flag Legend

Review Flags

U - Marked Undetected

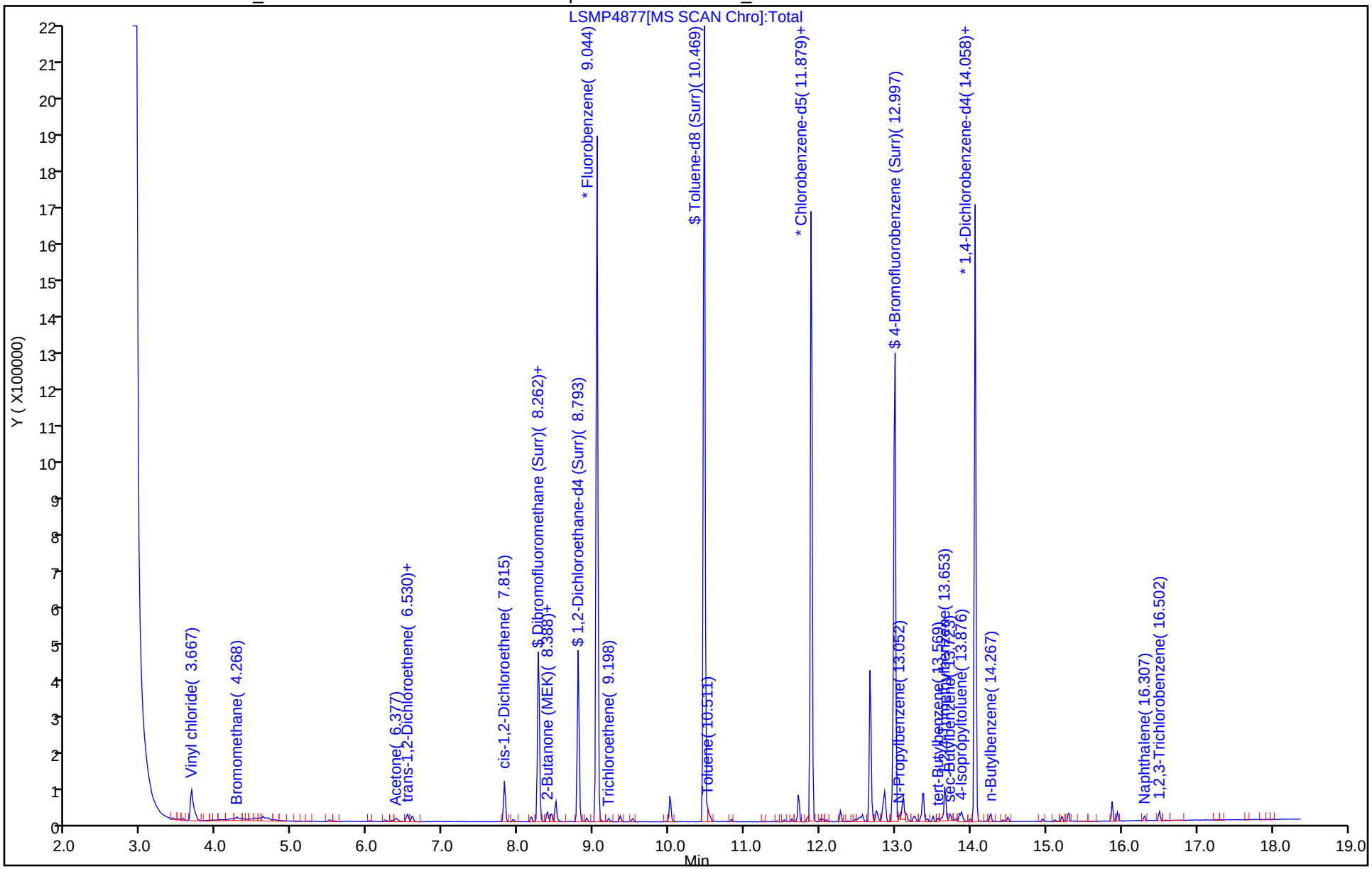
Reagents:

I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:32 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4877.D				
Injection Date:	17-Jun-2019 14:55:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	490-175605-A-2	Lab Sample ID:	160-175605-2	Worklist Smp#:	12
Client ID:	6MW2511				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4877.D
Lims ID: 490-175605-A-2
Client ID: 6MW2511
Sample Type: Client
Inject. Date: 17-Jun-2019 14:55:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-012
Misc. Info.: 490-175605-a-2
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 16:02:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	47.8	95.53
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	47.4	94.75
$ 62 Toluene-d8 (Surr)	50.0	52.7	105.44
$ 86 4-Bromofluorobenzene (Surr)	50.0	57.1	114.16

Report Date: 20-Jun-2019 11:43:32 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4877.D

Injection Date: 17-Jun-2019 14:55:30 Instrument ID: VMSL

Lims ID: 490-175605-A-2 Lab Sample ID: 160-175605-2

Client ID: 6MW2511

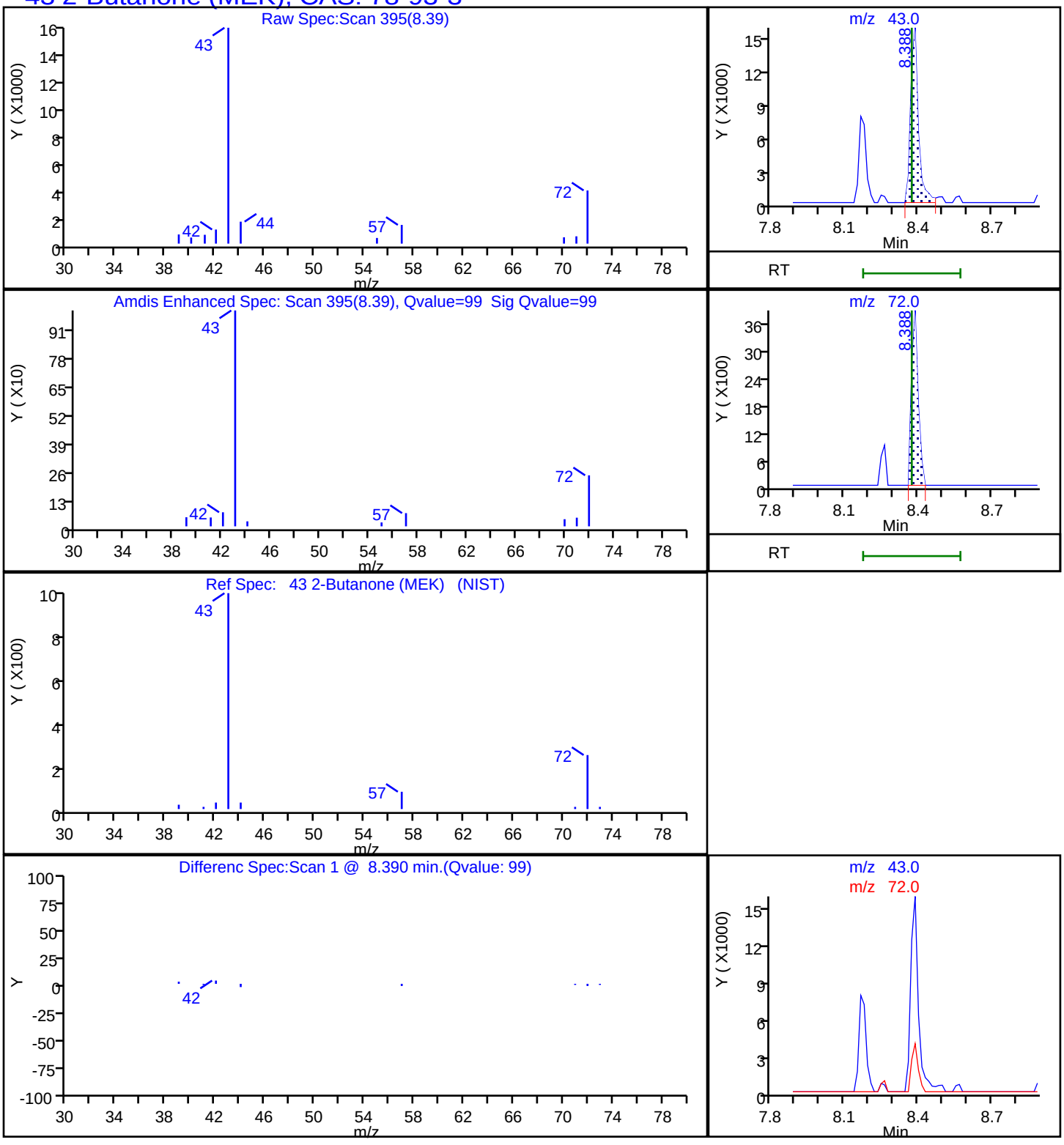
Operator ID: KA ALS Bottle#: 11 Worklist Smp#: 12

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD

Column: Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

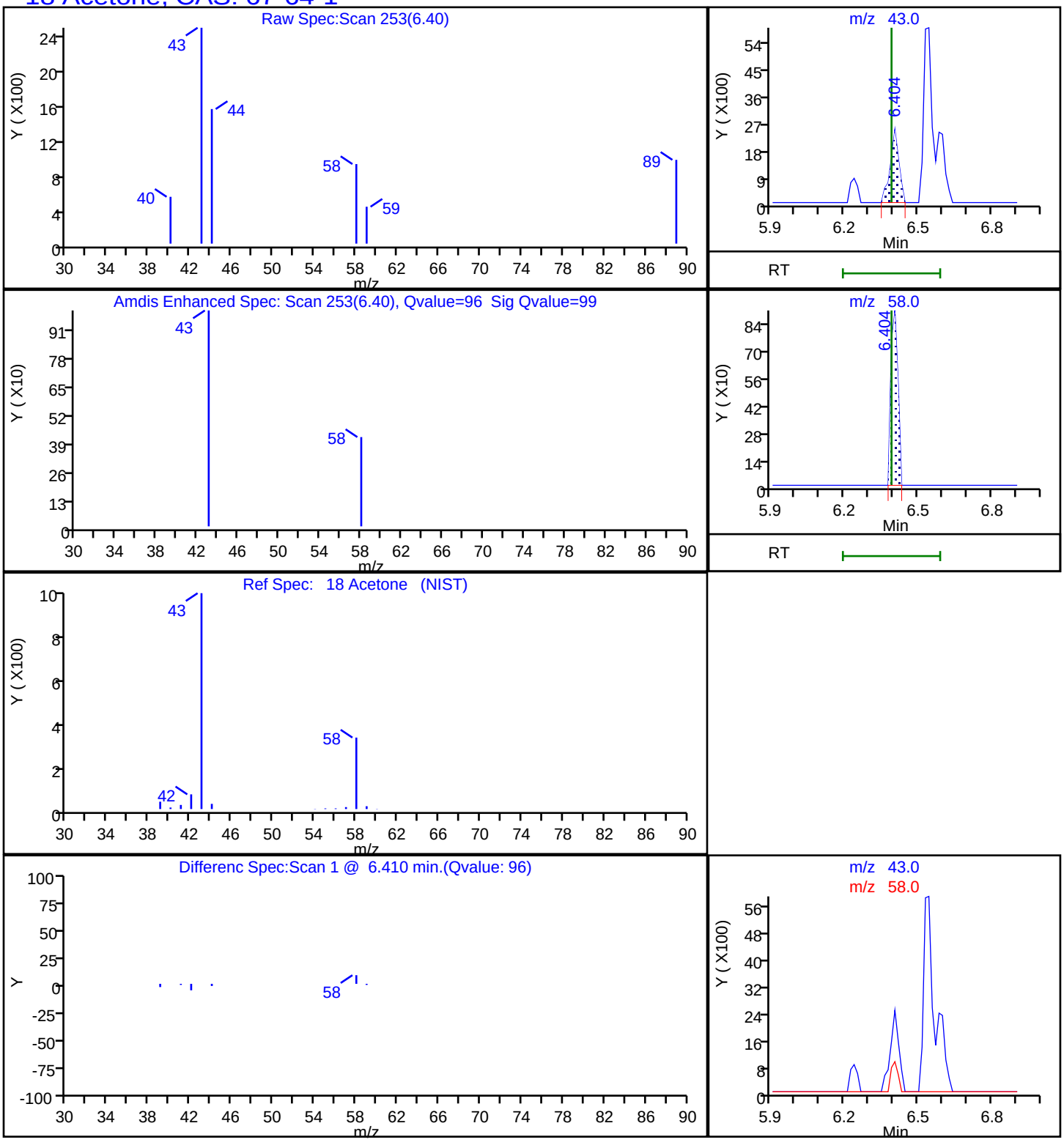


Report Date: 20-Jun-2019 11:43:32 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4877.D				
Injection Date:	17-Jun-2019 14:55:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-2	Lab Sample ID:	160-175605-2		
Client ID:	6MW2511				
Operator ID:	KA	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



Report Date: 20-Jun-2019 11:43:32 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4877.D

Injection Date: 17-Jun-2019 14:55:30 Instrument ID: VMSL

Lims ID: 490-175605-A-2 Lab Sample ID: 160-175605-2

Client ID: 6MW2511

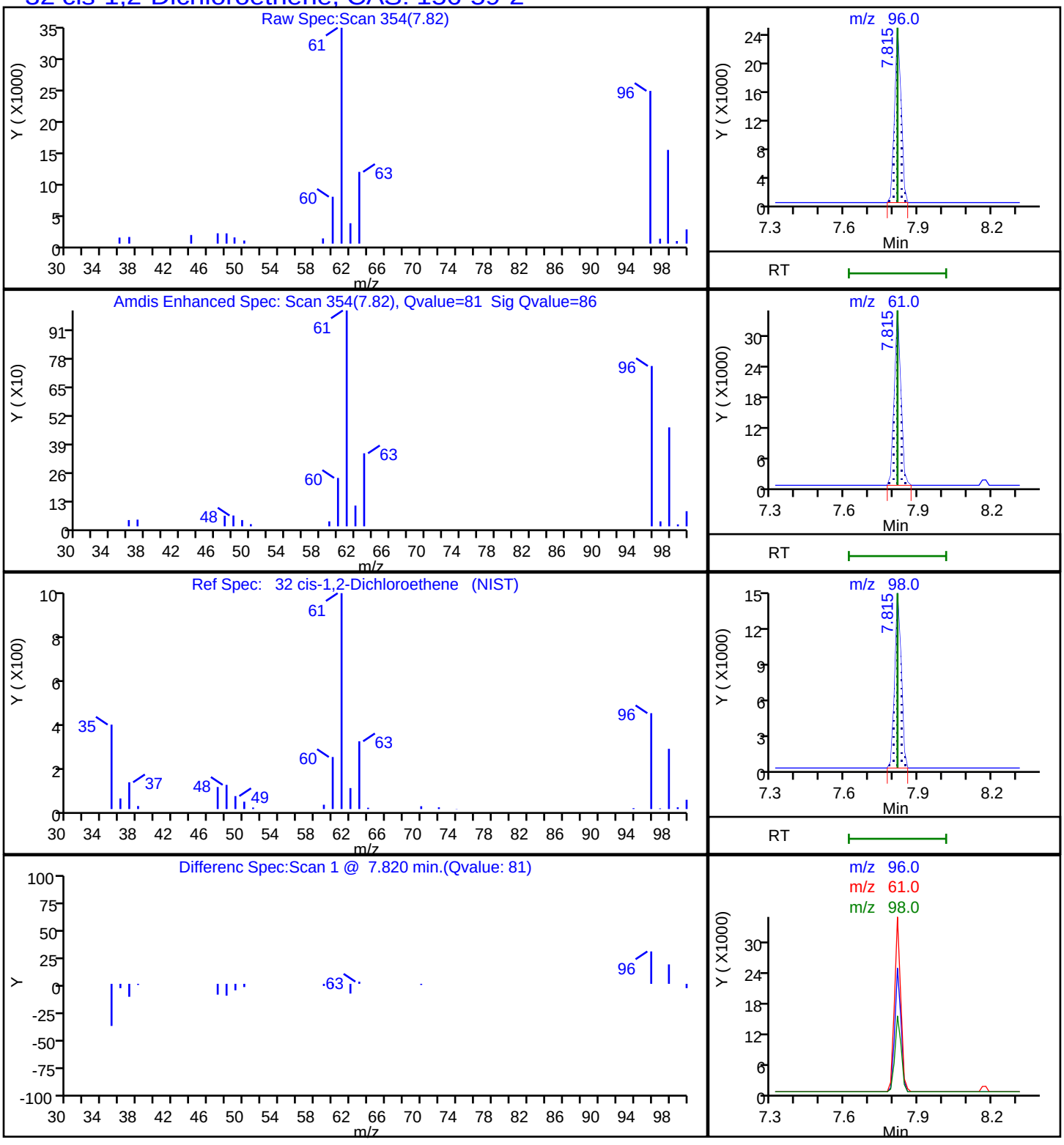
Operator ID: KA ALS Bottle#: 11 Worklist Smp#: 12

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD

Column: Detector MS SCAN

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

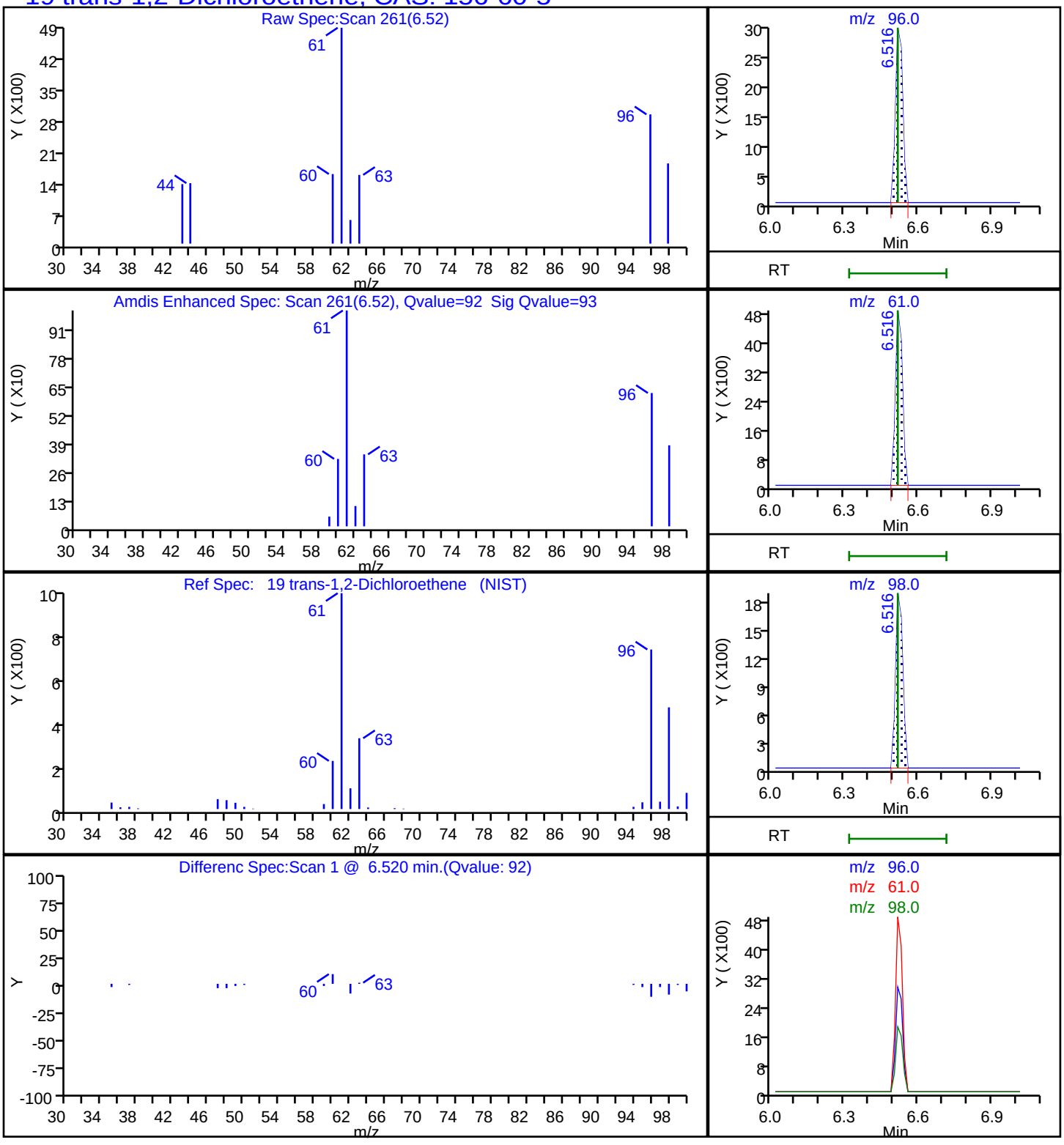


Report Date: 20-Jun-2019 11:43:32 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4877.D				
Injection Date:	17-Jun-2019 14:55:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-2	Lab Sample ID:	160-175605-2		
Client ID:	6MW2511				
Operator ID:	KA	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

19 trans-1,2-Dichloroethene, CAS: 156-60-5



Report Date: 20-Jun-2019 11:43:32 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4877.D

Injection Date: 17-Jun-2019 14:55:30 Instrument ID: VMSL

Lims ID: 490-175605-A-2 Lab Sample ID: 160-175605-2

Client ID: 6MW2511

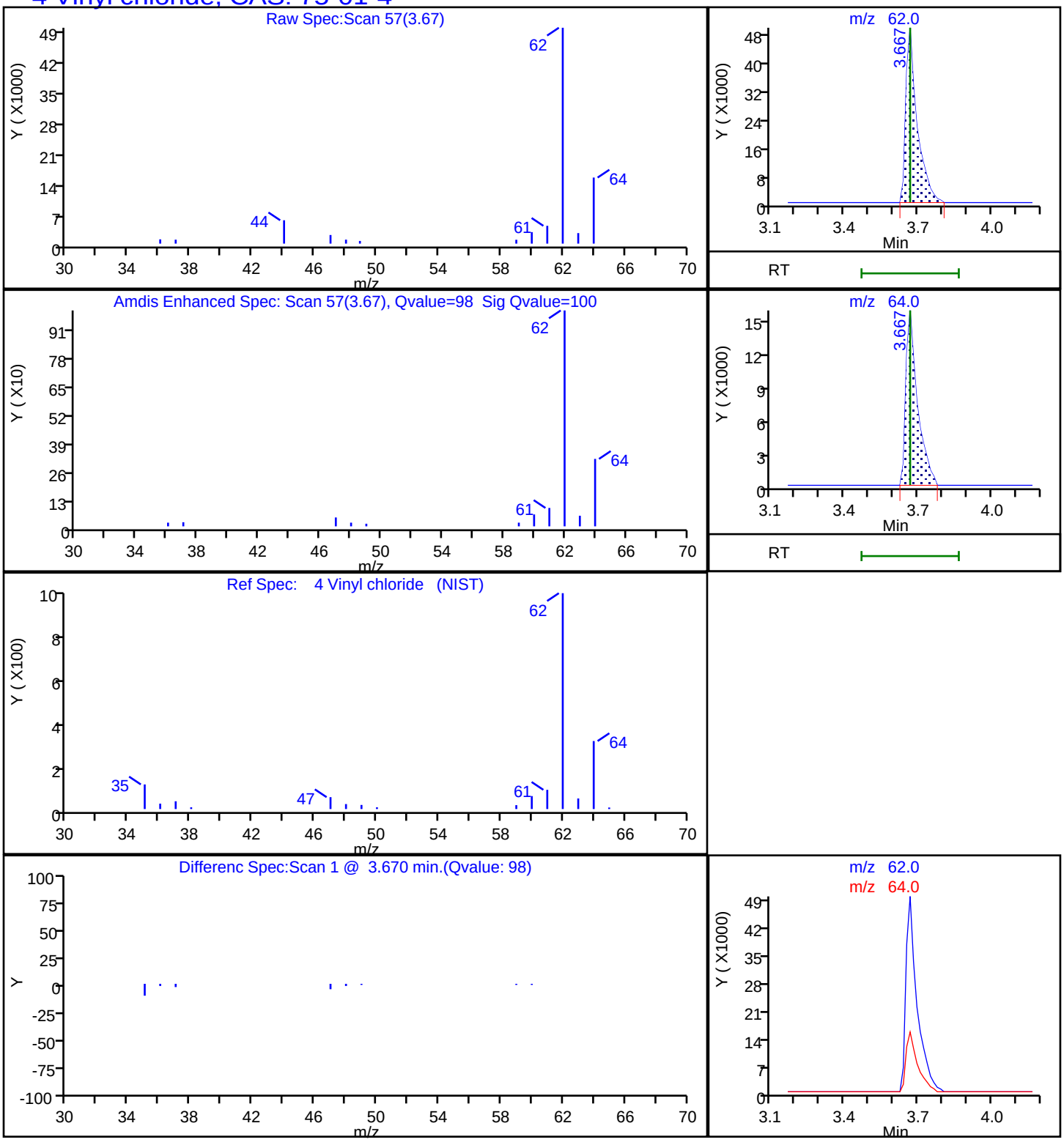
Operator ID: KA ALS Bottle#: 11 Worklist Smp#: 12

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD

Column: Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4



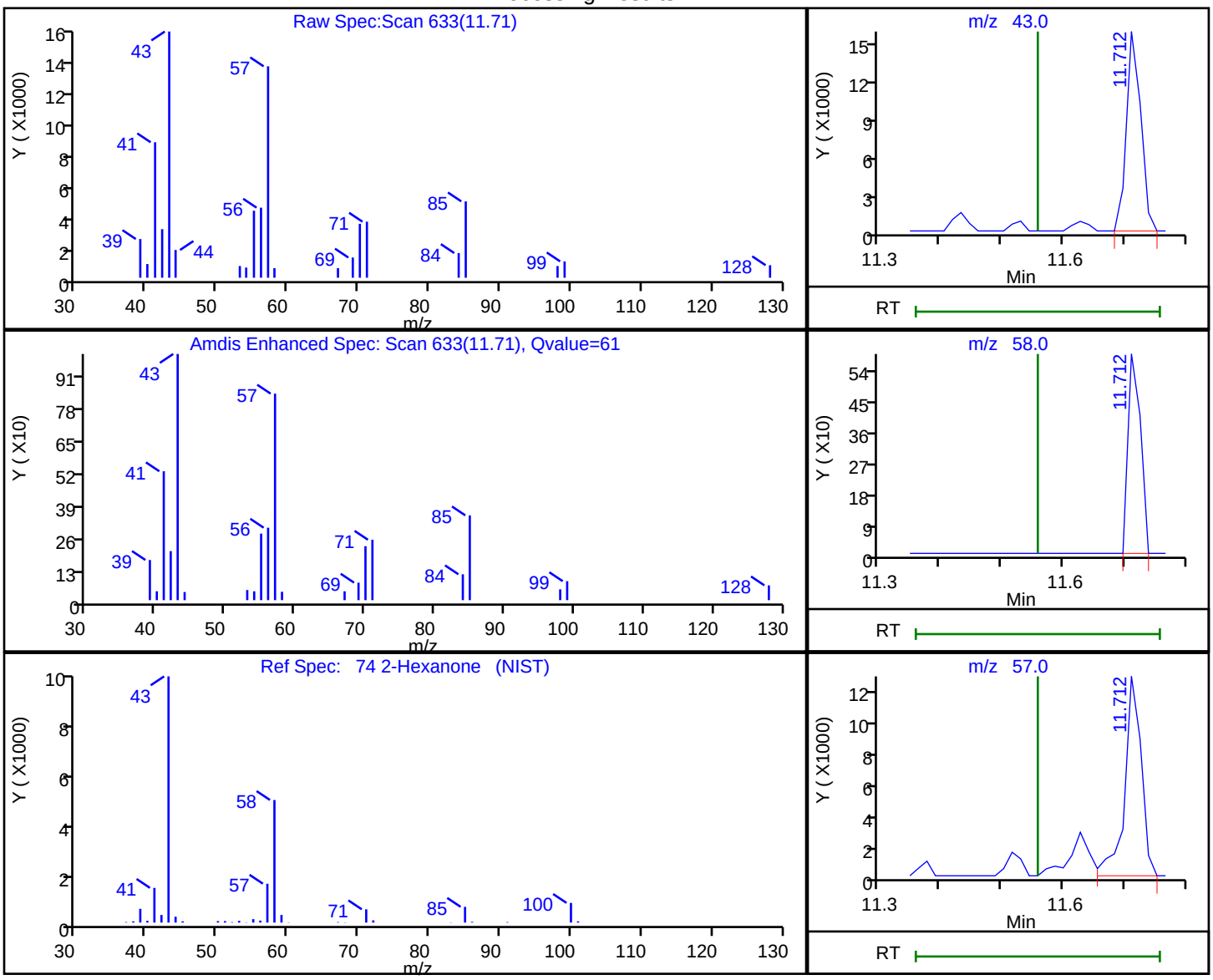
User Disabled Compound Report

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4877.D				
Injection Date:	17-Jun-2019 14:55:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-2	Lab Sample ID:	160-175605-2		
Client ID:	6MW2511				
Operator ID:	KA	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

74 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
11.71	43.00	24713	13.952546
11.71	58.00	833	
11.71	57.00	24523	

Reviewer: aguk, 17-Jun-2019 16:01:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

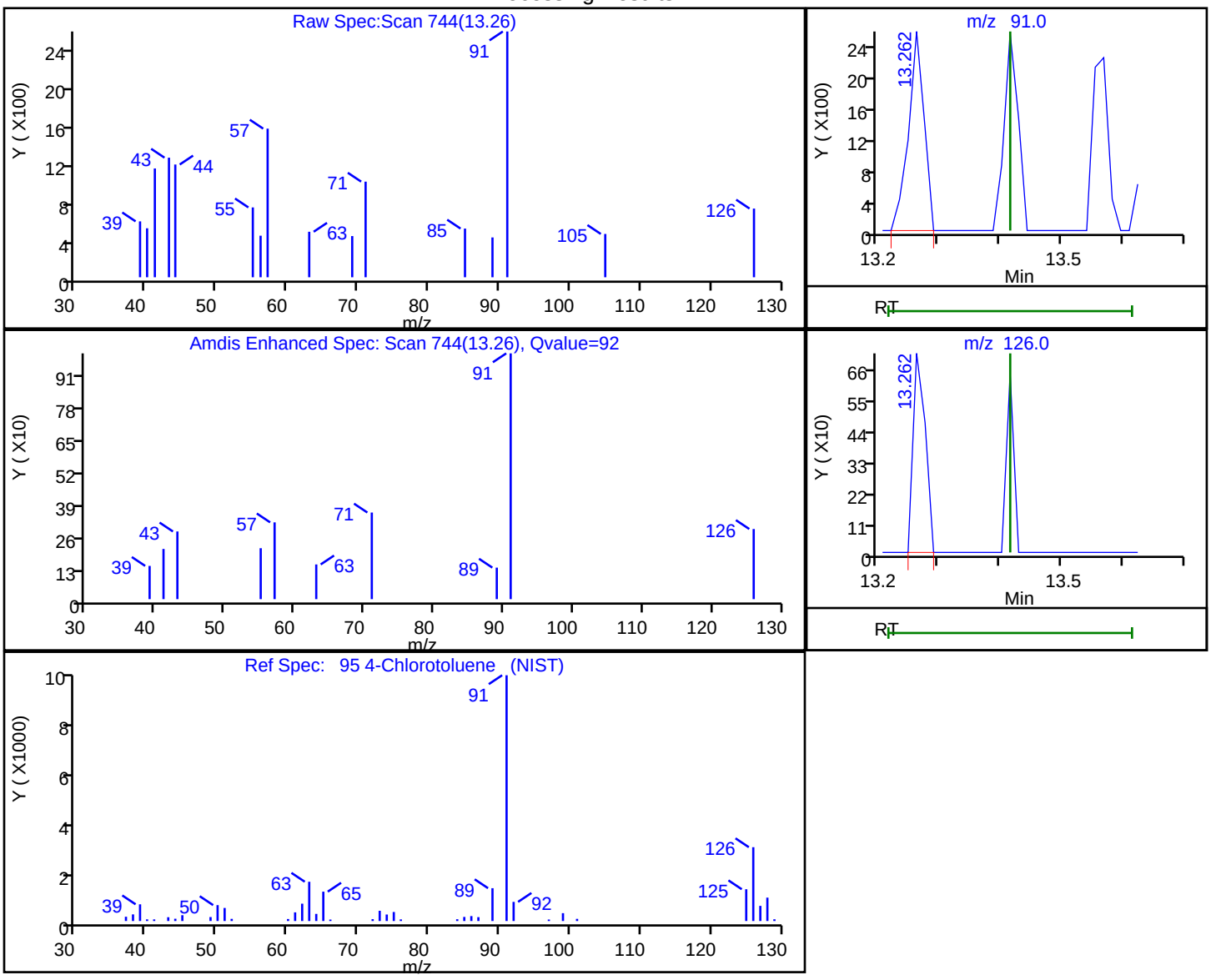
User Disabled Compound Report

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4877.D				
Injection Date:	17-Jun-2019 14:55:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-2	Lab Sample ID:	160-175605-2		
Client ID:	6MW2511				
Operator ID:	KA	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

95 4-Chlorotoluene, CAS: 106-43-4

Processing Results



RT	Mass	Response	Amount
13.26	91.00	4550	0.187286
13.26	126.00	988	

Reviewer: aguk, 17-Jun-2019 16:01:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2611 Lab Sample ID: 490-175605-3

Matrix: Water Lab File ID: LSMP4878.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 14:45

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 15:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	2.5	U	5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	23		20	5.0	2.4
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	4.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	4.6
67-64-1	Acetone	6.1	J	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.81
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.72
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.77
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	1.0
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.59
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.77
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	1.6	J	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2611 Lab Sample ID: 490-175605-3

Matrix: Water Lab File ID: LSMP4878.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 14:45

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 15:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.97
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.6
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.6
75-01-4	Vinyl chloride	1.7	J	5.0	2.0	1.0
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		81-118
460-00-4	4-Bromofluorobenzene (Surr)	114		85-114
1868-53-7	Dibromofluoromethane (Surr)	98		80-119
2037-26-5	Toluene-d8 (Surr)	103		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4878.D
Lims ID: 490-175605-A-3
Client ID: 6MW2611
Sample Type: Client
Inject. Date: 17-Jun-2019 15:20:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-013
Misc. Info.: 490-175605-a-3
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 16:29:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.150				ND	
3 Chloromethane	50		3.500				ND	
4 Vinyl chloride	62	3.667	3.667	0.000	95	18418	1.72	
5 Bromomethane	94	4.268	4.268	0.000	94	6389	1.37	
6 Chloroethane	64		4.477				ND	
7 Trichlorofluoromethane	101		4.715				ND	
9 1,1-Dichloroethene	96		5.525				ND	
10 Carbon disulfide	76		5.567				ND	
17 Methylene Chloride	84		6.321				ND	
18 Acetone	43	6.405	6.391	0.014	97	6061	6.06	
19 trans-1,2-Dichloroethene	96	6.516	6.516	0.000	97	2775	0.3645	
22 Methyl tert-butyl ether	73		6.642				ND	
28 1,1-Dichloroethane	63		7.243				ND	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	81	11603	1.58	
33 2,2-Dichloropropane	77		7.927				ND	
35 Chlorobromomethane	128		8.025				ND	
36 Chloroform	83		8.081				ND	
37 Carbon tetrachloride	117		8.234				ND	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	270163	49.2	
40 1,1,1-Trichloroethane	97		8.304				ND	
43 2-Butanone (MEK)	43	8.388	8.374	0.014	99	34521	23.4	
42 1,1-Dichloropropene	75		8.416				ND	
44 Benzene	78		8.653				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	99	331131	51.6	
49 1,2-Dichloroethane	62		8.849				ND	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1469915	50.0	
53 Trichloroethene	95		9.198				ND	
55 Dibromomethane	93		9.603				ND	
56 1,2-Dichloropropane	63		9.687				ND	
57 Dichlorobromomethane	83		9.729				ND	
61 cis-1,3-Dichloropropene	75		10.287				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	1342209	51.4	
63 Toluene	92	10.511	10.511	0.000	99	12112	0.6254	
66 4-Methyl-2-pentanone (MIBK	43		10.818				ND	
65 Tetrachloroethene	164		10.860				ND	
67 trans-1,3-Dichloropropene	75		10.874				ND	
68 1,1,2-Trichloroethane	83		11.027				ND	
70 Chlorodibromomethane	129		11.209				ND	
71 1,3-Dichloropropane	76		11.279				ND	
72 Ethylene Dibromide	107		11.446				ND	
74 2-Hexanone	43		11.558				ND	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	91	899634	50.0	
78 Ethylbenzene	91		11.879				ND	
77 Chlorobenzene	112		11.893				ND	
79 1,1,1,2-Tetrachloroethane	131		11.935				ND	
80 m-Xylene & p-Xylene	106		12.005				ND	
82 o-Xylene	106		12.410				ND	
83 Styrene	104		12.466				ND	
84 Bromoform	173		12.536				ND	
85 Isopropylbenzene	105		12.689				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.014	93	477074	56.8	
88 N-Propylbenzene	91		13.080				ND	
87 Bromobenzene	156		13.108				ND	
89 1,1,2,2-Tetrachloroethane	83		13.136				ND	
91 1,3,5-Trimethylbenzene	105		13.234				ND	
90 2-Chlorotoluene	91		13.262				ND	
92 1,2,3-Trichloropropane	110		13.304				ND	
95 4-Chlorotoluene	91		13.416				ND	
96 tert-Butylbenzene	119		13.555				ND	
97 1,2,4-Trimethylbenzene	105		13.625				ND	
98 sec-Butylbenzene	105		13.723				ND	
99 4-Isopropyltoluene	119		13.849				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	414523	50.0	
103 n-Butylbenzene	134		14.268				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.287				ND	
110 Naphthalene	128		16.307				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.502				ND	

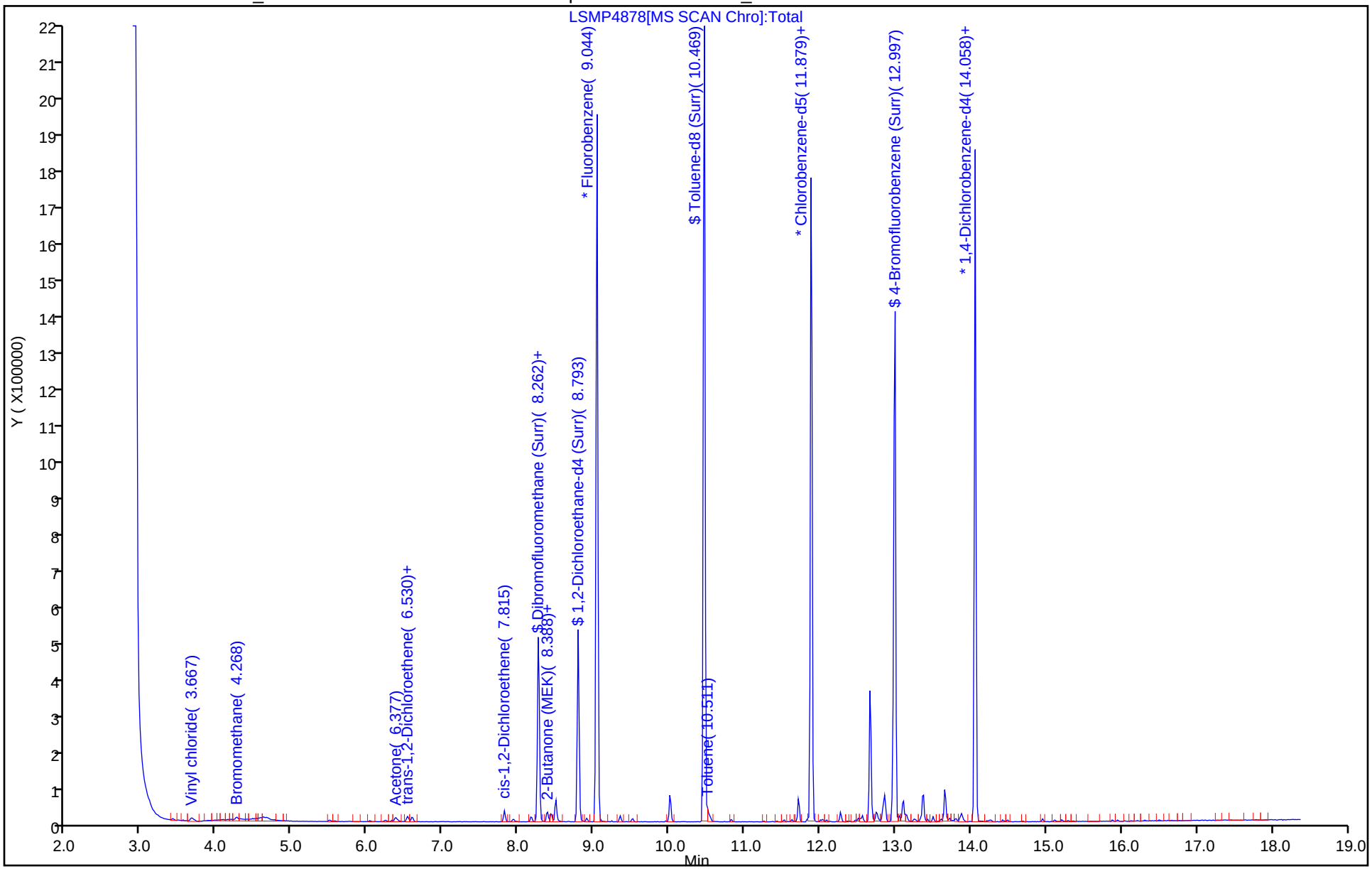
Reagents:

I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:34 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4878.D				
Injection Date:	17-Jun-2019 15:20:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	490-175605-A-3	Lab Sample ID:	160-175605-3	Worklist Smp#:	13
Client ID:	6MW2611				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4878.D
Lims ID: 490-175605-A-3
Client ID: 6MW2611
Sample Type: Client
Inject. Date: 17-Jun-2019 15:20:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-013
Misc. Info.: 490-175605-a-3
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 16:29:42

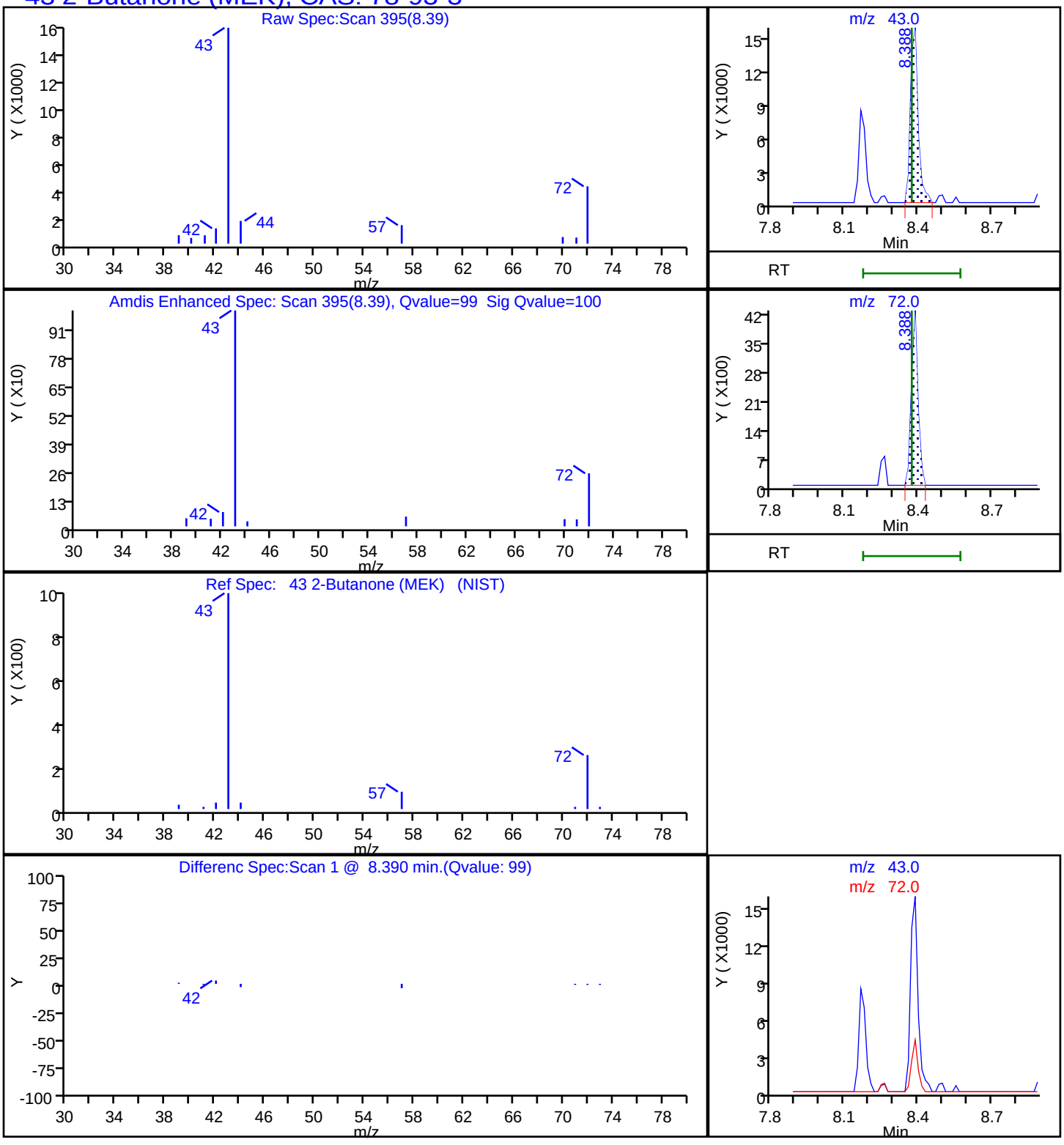
Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.2	98.41
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.6	103.16
$ 62 Toluene-d8 (Surr)	50.0	51.4	102.74
$ 86 4-Bromofluorobenzene (Surr)	50.0	56.8	113.54

Report Date: 20-Jun-2019 11:43:34 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4878.D				
Injection Date:	17-Jun-2019 15:20:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-3	Lab Sample ID:	160-175605-3		
Client ID:	6MW2611				
Operator ID:	KA	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3

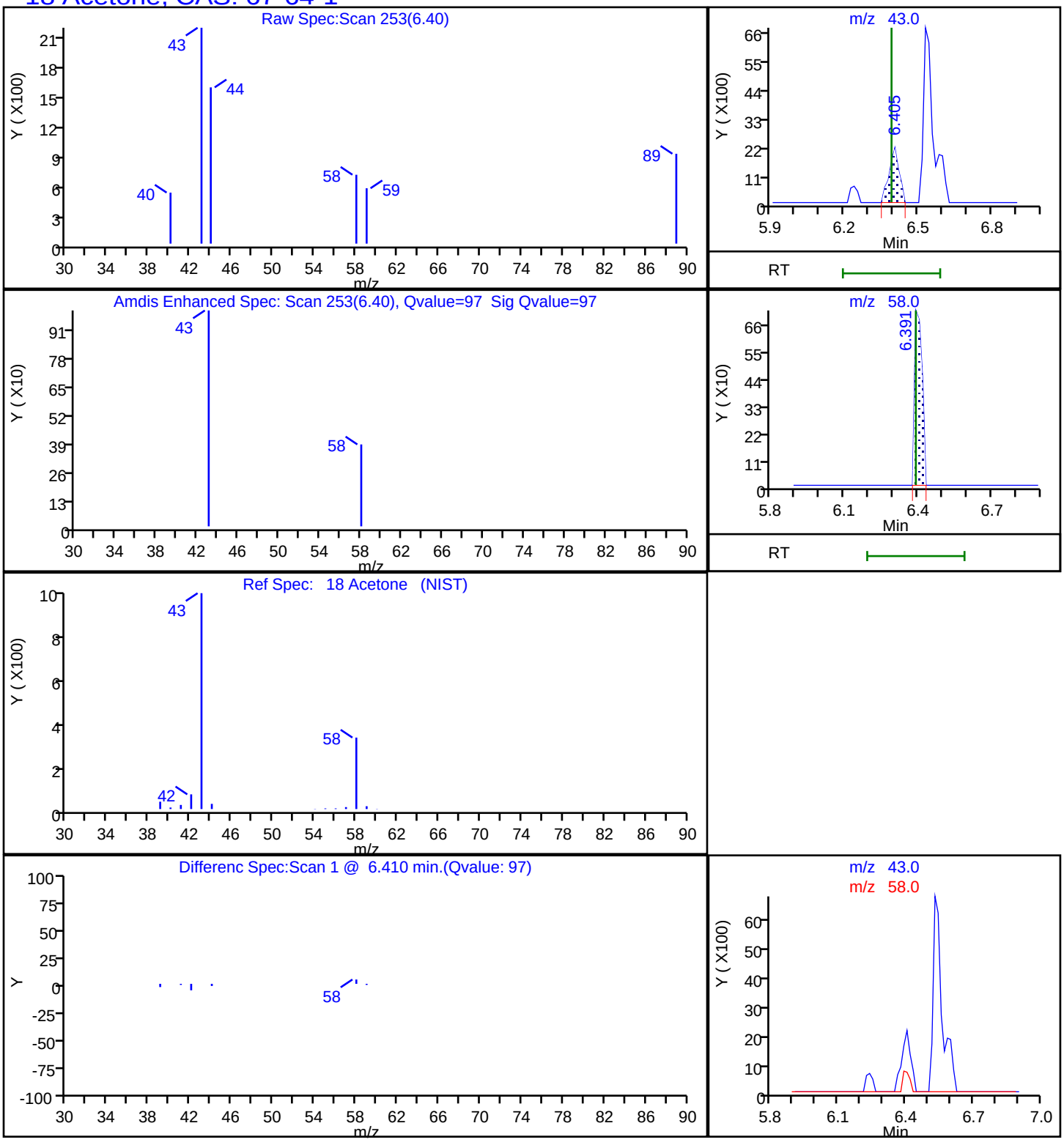


Report Date: 20-Jun-2019 11:43:34 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4878.D				
Injection Date:	17-Jun-2019 15:20:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-3	Lab Sample ID:	160-175605-3		
Client ID:	6MW2611				
Operator ID:	KA	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1

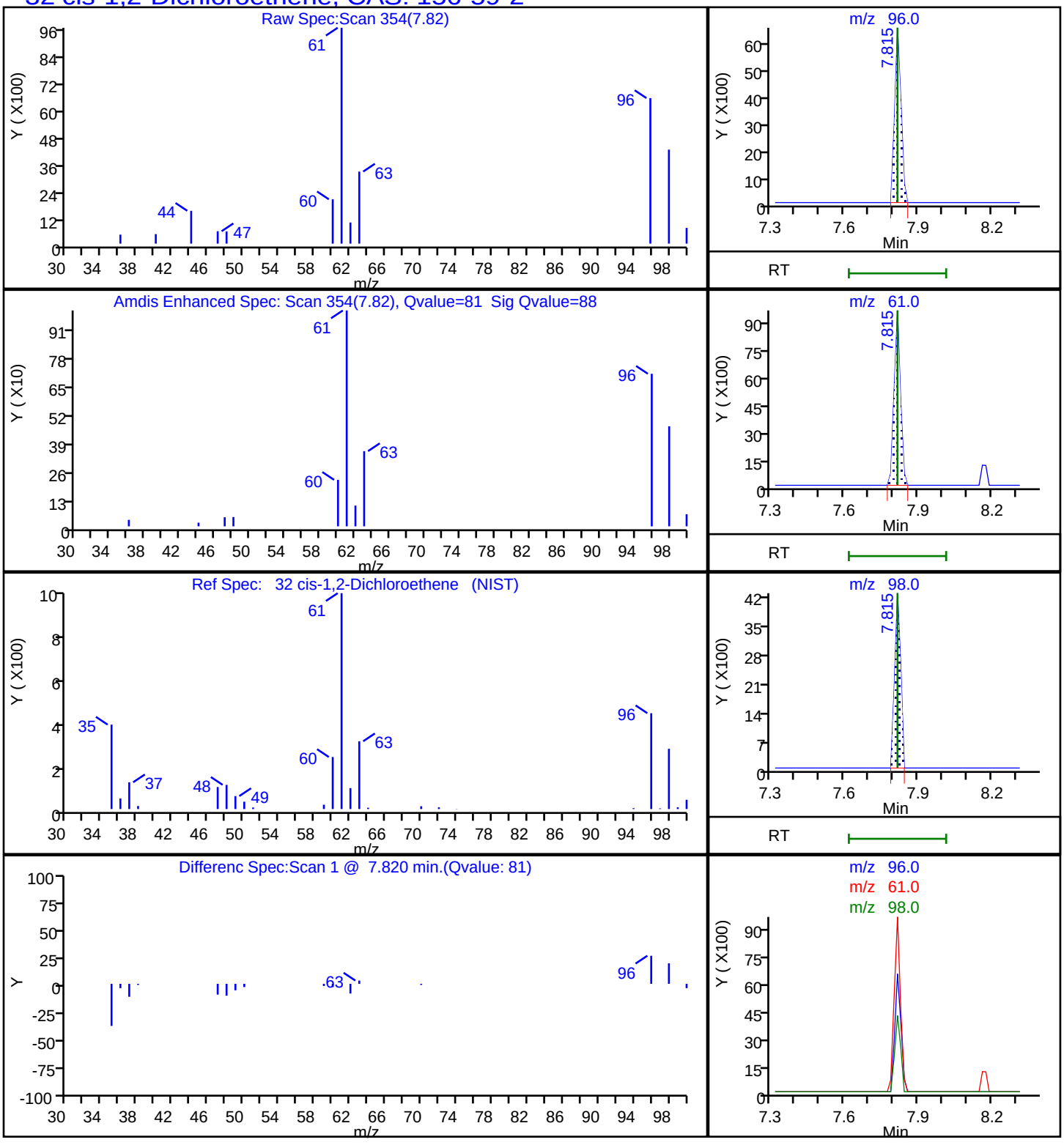


Report Date: 20-Jun-2019 11:43:34 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4878.D				
Injection Date:	17-Jun-2019 15:20:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-3	Lab Sample ID:	160-175605-3		
Client ID:	6MW2611				
Operator ID:	KA	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

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



Report Date: 20-Jun-2019 11:43:34 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4878.D

Injection Date: 17-Jun-2019 15:20:30 Instrument ID: VMSL

Lims ID: 490-175605-A-3 Lab Sample ID: 160-175605-3

Client ID: 6MW2611

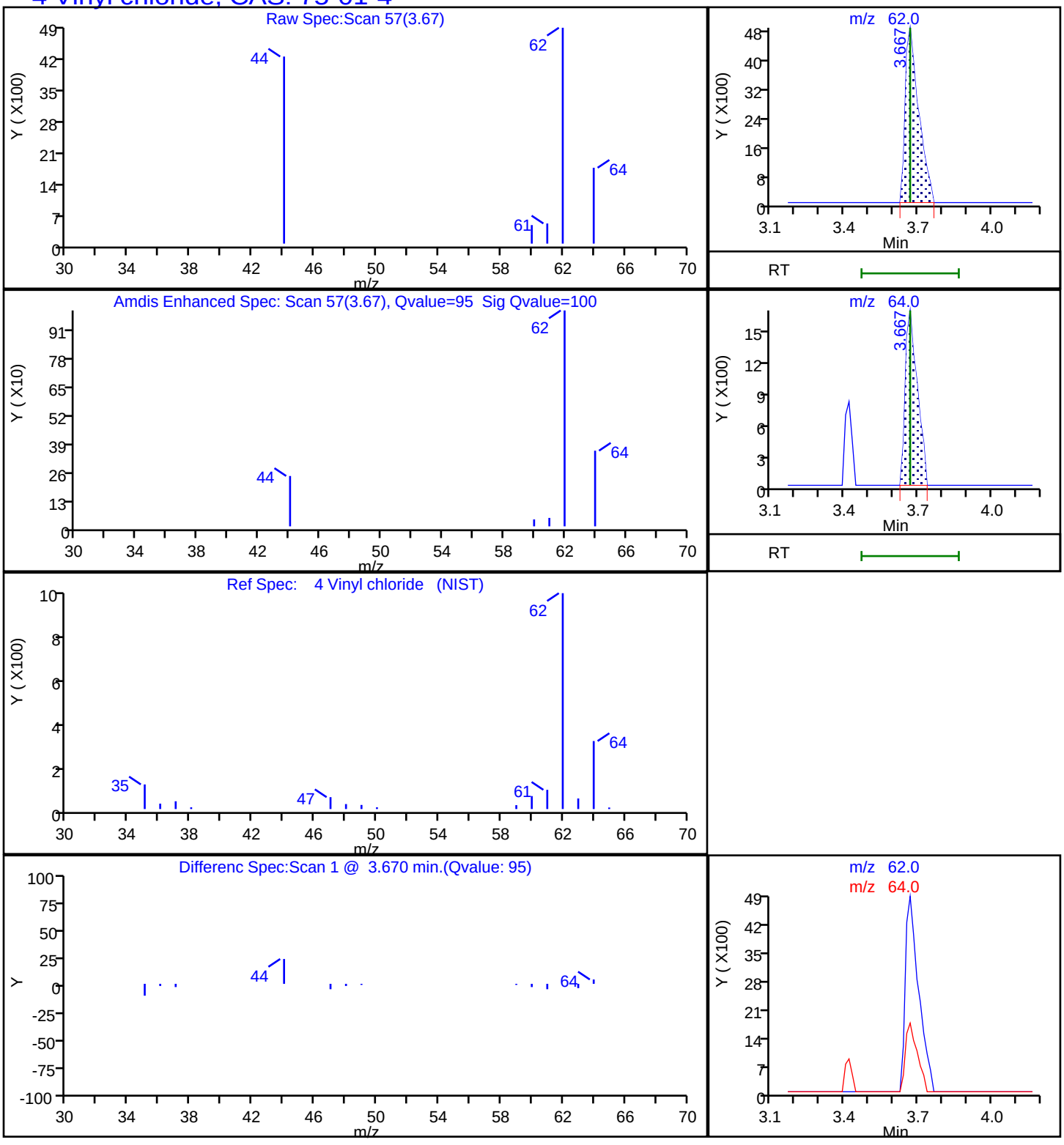
Operator ID: KA ALS Bottle#: 12 Worklist Smp#: 13

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD

Column: Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2311 Lab Sample ID: 490-175605-4

Matrix: Water Lab File ID: LSMP4879.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 15:35

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 15:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	2.5	U	5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	12	J	20	5.0	2.4
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	4.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	4.6
67-64-1	Acetone	5.5	J	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.81
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.72
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.77
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	1.0
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.59
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.77
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	3.0	J	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2311 Lab Sample ID: 490-175605-4

Matrix: Water Lab File ID: LSMP4879.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 15:35

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 15:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.97
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.6
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.6
75-01-4	Vinyl chloride	1.8	J	5.0	2.0	1.0
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		81-118
460-00-4	4-Bromofluorobenzene (Surr)	108		85-114
1868-53-7	Dibromofluoromethane (Surr)	98		80-119
2037-26-5	Toluene-d8 (Surr)	102		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4879.D
Lims ID: 490-175605-A-4
Client ID: 6MW2311
Sample Type: Client
Inject. Date: 17-Jun-2019 15:46:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-014
Misc. Info.: 490-175605-a-4
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 18-Jun-2019 15:53:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.150				ND	
3 Chloromethane	50		3.500				ND	
4 Vinyl chloride	62	3.667	3.667	0.000	97	19021	1.79	
5 Bromomethane	94	4.254	4.268	-0.014	84	5224	1.13	
6 Chloroethane	64		4.477				ND	
7 Trichlorofluoromethane	101		4.715				ND	
9 1,1-Dichloroethene	96		5.525				ND	
10 Carbon disulfide	76		5.567				ND	
17 Methylene Chloride	84		6.321				ND	
18 Acetone	43	6.404	6.391	0.013	98	5403	5.46	
19 trans-1,2-Dichloroethene	96	6.516	6.516	0.000	93	2598	0.3445	
22 Methyl tert-butyl ether	73		6.642				ND	
28 1,1-Dichloroethane	63		7.243				ND	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	83	21527	2.95	
33 2,2-Dichloropropane	77		7.927				ND	
35 Chlorobromomethane	128		8.025				ND	
36 Chloroform	83		8.081				ND	
37 Carbon tetrachloride	117		8.234				ND	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	266501	49.0	
40 1,1,1-Trichloroethane	97		8.304				ND	
43 2-Butanone (MEK)	43	8.388	8.374	0.014	100	17199	11.8	
42 1,1-Dichloropropene	75		8.416				ND	
44 Benzene	78		8.653				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	326966	51.4	
49 1,2-Dichloroethane	62		8.849				ND	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1455936	50.0	
53 Trichloroethene	95	9.198	9.198	0.000	87	2606	0.3192	
55 Dibromomethane	93		9.603				ND	
56 1,2-Dichloropropane	63		9.687				ND	
57 Dichlorobromomethane	83		9.729				ND	
61 cis-1,3-Dichloropropene	75		10.287				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	94	1322672	51.1	
63 Toluene	92	10.511	10.511	0.000	98	5519	0.2875	
66 4-Methyl-2-pentanone (MIBK	43		10.818				ND	
65 Tetrachloroethene	164		10.860				ND	
67 trans-1,3-Dichloropropene	75		10.874				ND	
68 1,1,2-Trichloroethane	83		11.027				ND	
70 Chlorodibromomethane	129		11.209				ND	
71 1,3-Dichloropropane	76		11.279				ND	
72 Ethylene Dibromide	107		11.446				ND	
74 2-Hexanone	43		11.558				ND	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	91	891795	50.0	
78 Ethylbenzene	91		11.879				ND	
77 Chlorobenzene	112		11.893				ND	
79 1,1,1,2-Tetrachloroethane	131		11.935				ND	
80 m-Xylene & p-Xylene	106		12.005				ND	
82 o-Xylene	106		12.410				ND	
83 Styrene	104		12.466				ND	
84 Bromoform	173		12.536				ND	
85 Isopropylbenzene	105		12.689				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.014	92	453611	54.2	
88 N-Propylbenzene	91		13.080				ND	
87 Bromobenzene	156		13.108				ND	
89 1,1,2,2-Tetrachloroethane	83		13.136				ND	
91 1,3,5-Trimethylbenzene	105		13.234				ND	
90 2-Chlorotoluene	91		13.262				ND	
92 1,2,3-Trichloropropane	110		13.304				ND	
95 4-Chlorotoluene	91		13.416				ND	
96 tert-Butylbenzene	119		13.555				ND	
97 1,2,4-Trimethylbenzene	105		13.625				ND	
98 sec-Butylbenzene	105		13.723				ND	
99 4-Isopropyltoluene	119		13.849				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	412735	50.0	
103 n-Butylbenzene	134		14.268				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.287				ND	
110 Naphthalene	128		16.307				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.502				ND	

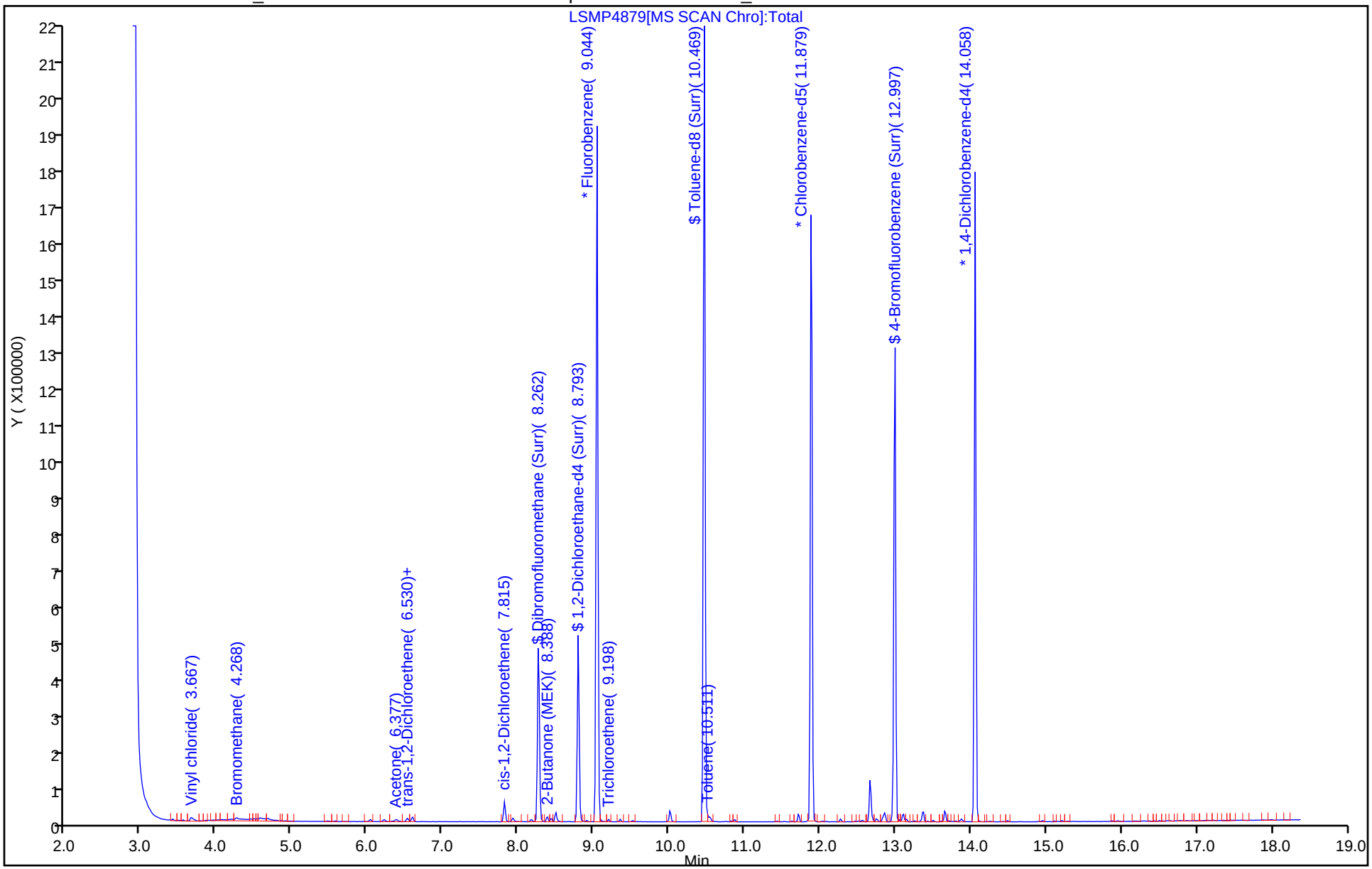
Reagents:

I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:35 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4879.D				
Injection Date:	17-Jun-2019 15:46:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	490-175605-A-4	Lab Sample ID:	160-175605-4	Worklist Smp#:	14
Client ID:	6MW2311				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4879.D
Lims ID: 490-175605-A-4
Client ID: 6MW2311
Sample Type: Client
Inject. Date: 17-Jun-2019 15:46:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-014
Misc. Info.: 490-175605-a-4
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 18-Jun-2019 15:53:34

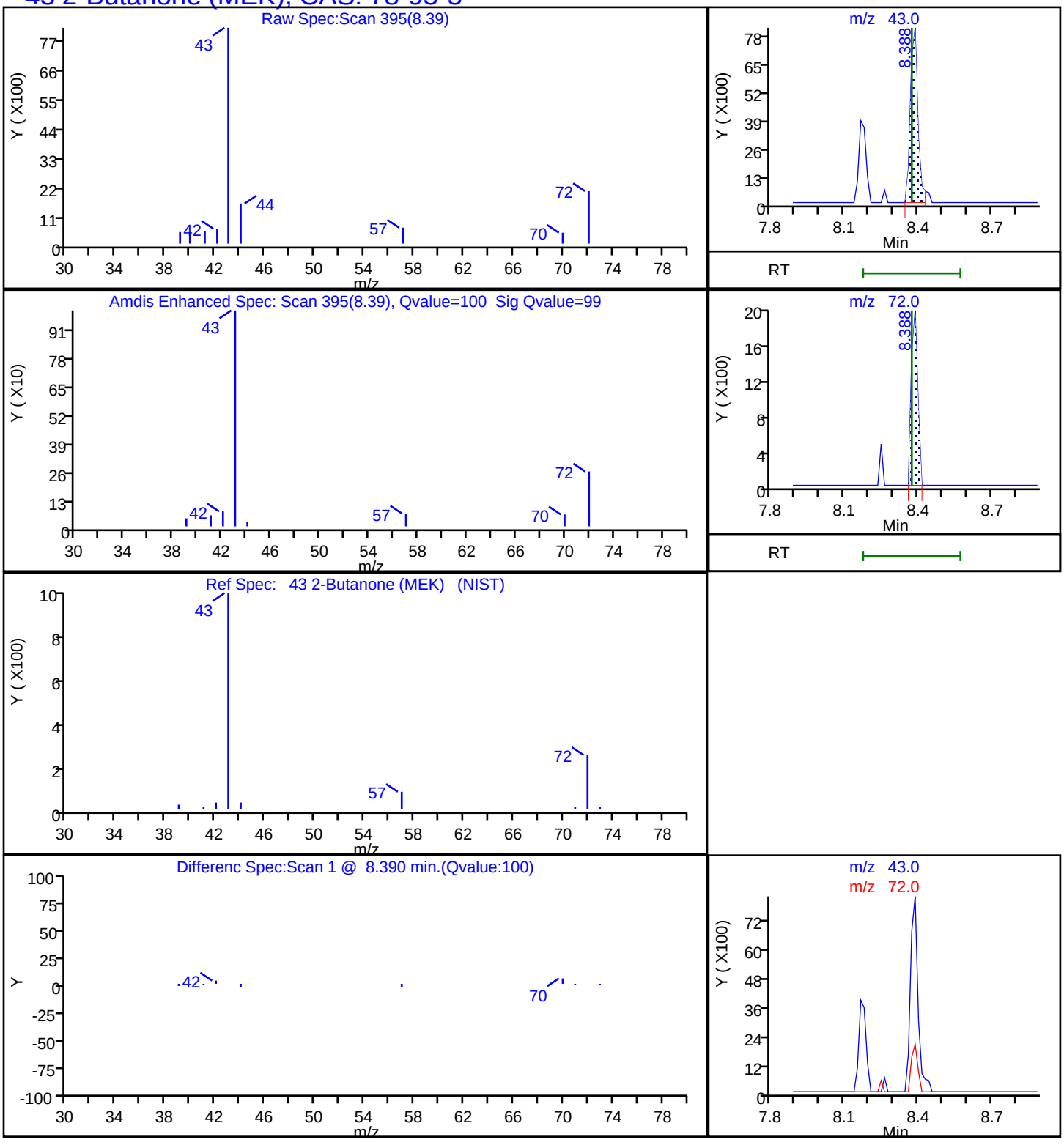
Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.0	98.01
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.4	102.84
$ 62 Toluene-d8 (Surr)	50.0	51.1	102.13
$ 86 4-Bromofluorobenzene (Surr)	50.0	54.2	108.43

Report Date: 20-Jun-2019 11:43:35 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4879.D				
Injection Date:	17-Jun-2019 15:46:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-4	Lab Sample ID:	160-175605-4		
Client ID:	6MW2311				
Operator ID:	KA	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3

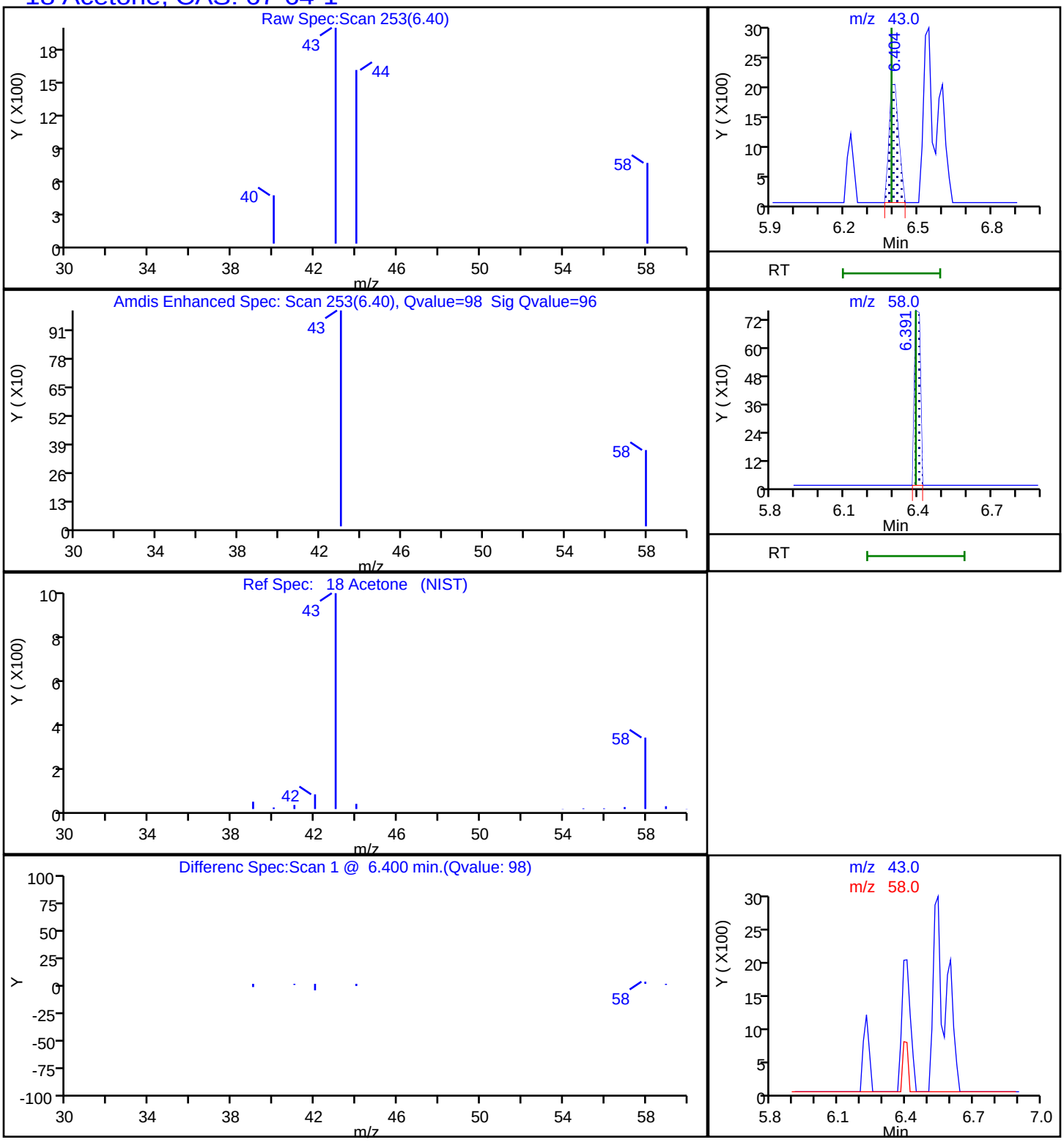


Report Date: 20-Jun-2019 11:43:35 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4879.D				
Injection Date:	17-Jun-2019 15:46:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-4	Lab Sample ID:	160-175605-4		
Client ID:	6MW2311				
Operator ID:	KA	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1

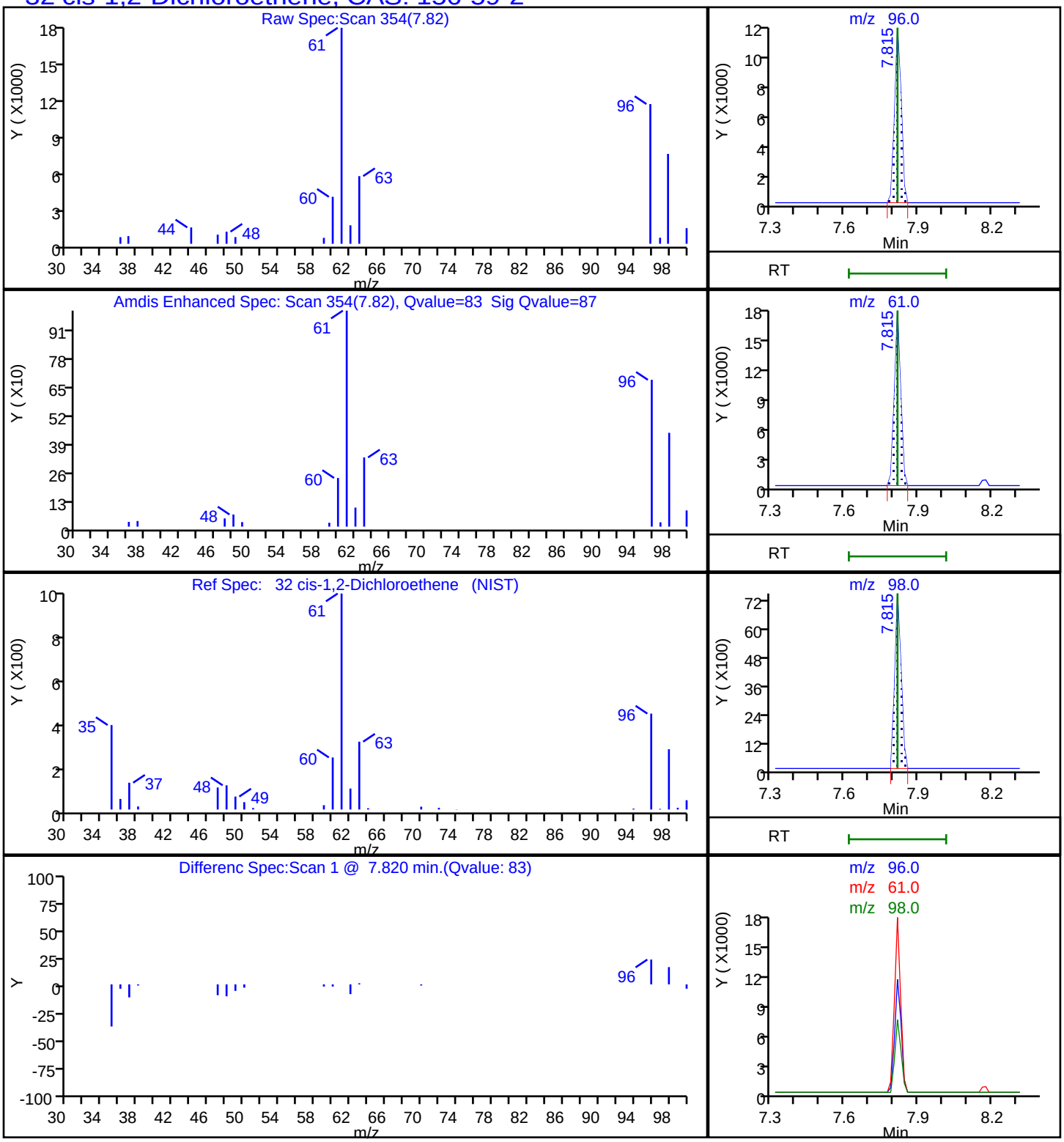


Report Date: 20-Jun-2019 11:43:35 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4879.D				
Injection Date:	17-Jun-2019 15:46:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-4	Lab Sample ID:	160-175605-4		
Client ID:	6MW2311				
Operator ID:	KA	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

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



Report Date: 20-Jun-2019 11:43:35 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4879.D

Injection Date: 17-Jun-2019 15:46:30 Instrument ID: VMSL

Lims ID: 490-175605-A-4 Lab Sample ID: 160-175605-4

Client ID: 6MW2311

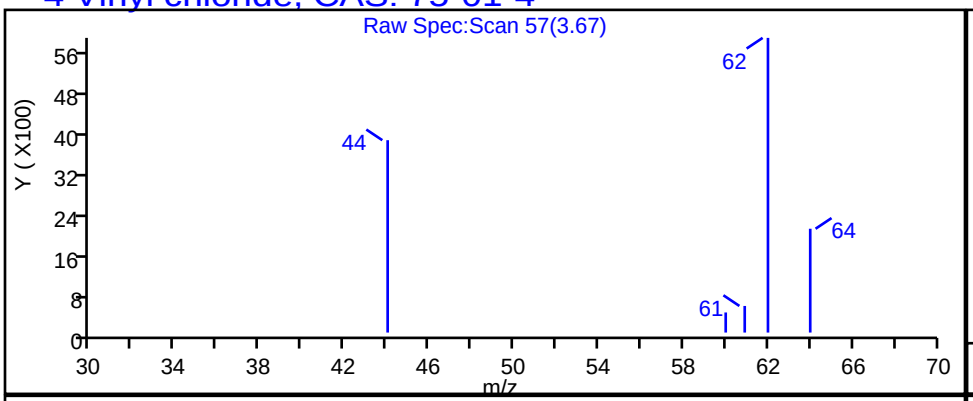
Operator ID: KA ALS Bottle#: 13 Worklist Smp#: 14

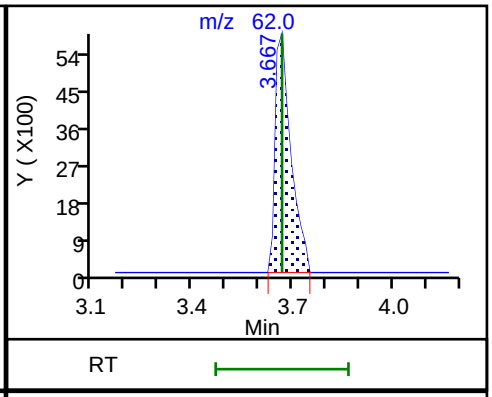
Purge Vol: 5.000 mL Dil. Factor: 1.0000

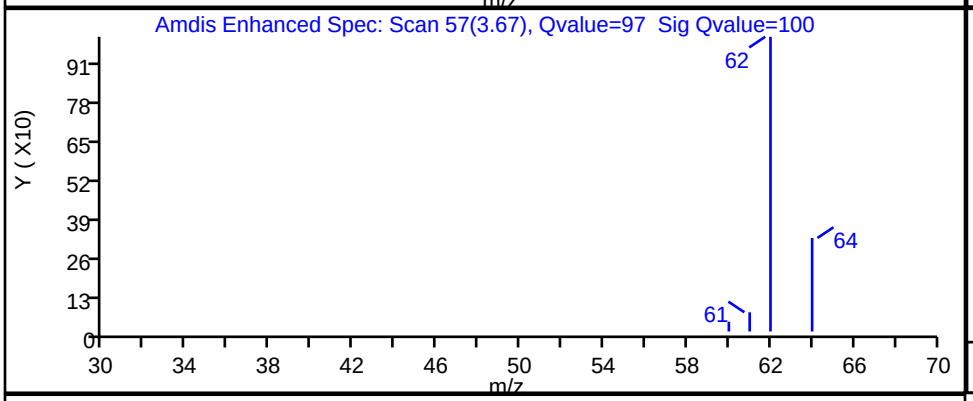
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD

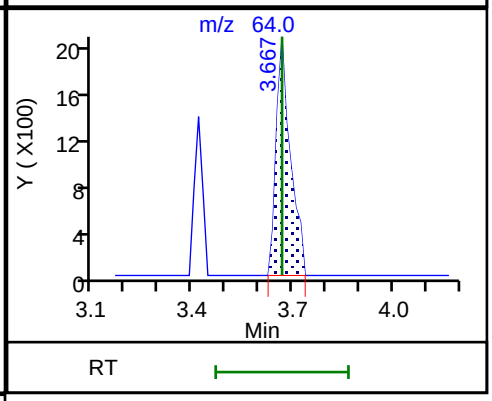
Column: Detector MS SCAN

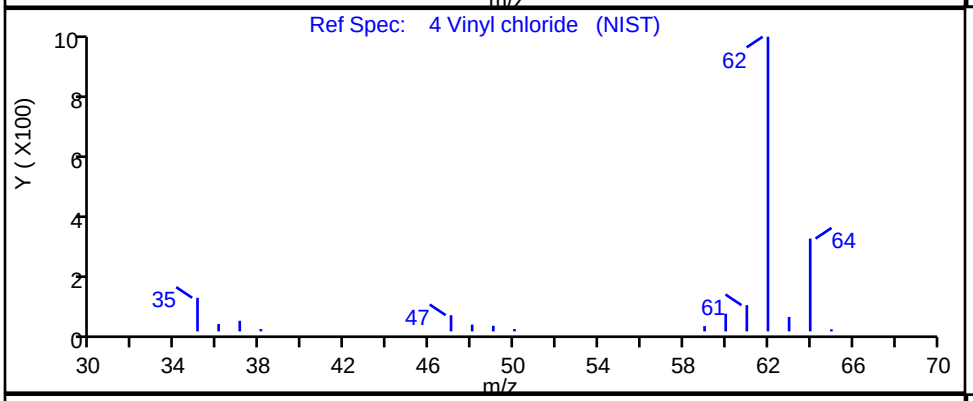
4 Vinyl chloride, CAS: 75-01-4

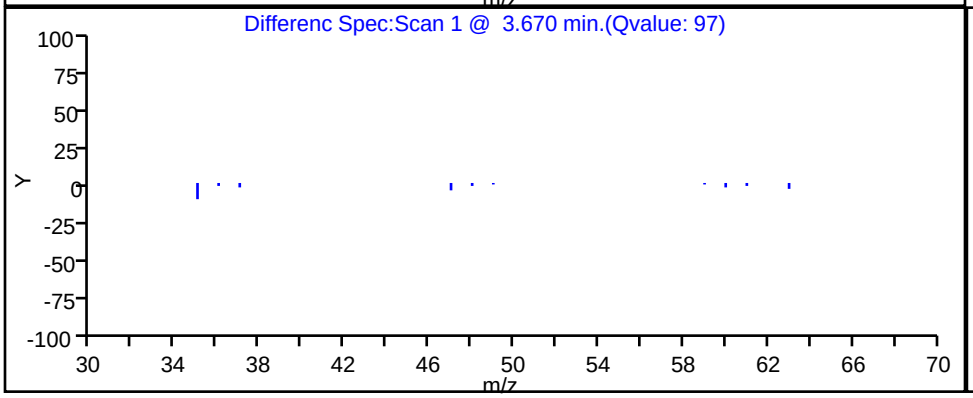


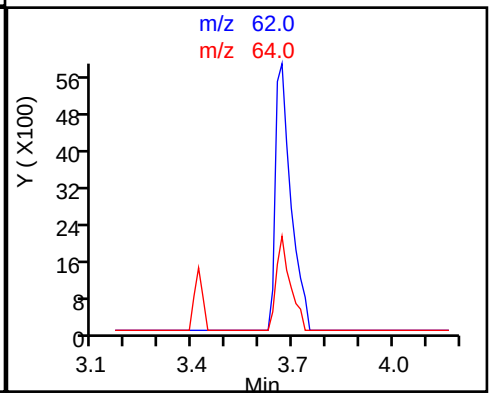












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2211 Lab Sample ID: 490-175605-5

Matrix: Water Lab File ID: LSMP4880.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 16:35

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 16:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	2.5	U M	5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	16	J	20	5.0	2.4
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	4.8	J	20	5.0	4.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	4.6
67-64-1	Acetone	90		20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.81
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.72
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.77
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	1.0
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.59
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.77
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	0.80	J	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2211 Lab Sample ID: 490-175605-5

Matrix: Water Lab File ID: LSMP4880.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 16:35

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 16:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.97
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.6
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	2.5	U M	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.6
75-01-4	Vinyl chloride	2.0	U	5.0	2.0	1.0
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		81-118
460-00-4	4-Bromofluorobenzene (Surr)	108		85-114
1868-53-7	Dibromofluoromethane (Surr)	99		80-119
2037-26-5	Toluene-d8 (Surr)	104		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4880.D
Lims ID: 490-175605-A-5
Client ID: 6MW2211
Sample Type: Client
Inject. Date: 17-Jun-2019 16:11:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-015
Misc. Info.: 490-175605-a-5
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 18-Jun-2019 15:54:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.150				ND	
3 Chloromethane	50		3.500				ND	
4 Vinyl chloride	62	3.667	3.667	0.000	95	7126	0.7201	
5 Bromomethane	94	4.268	4.268	0.000	29	3589	0.8353	
6 Chloroethane	64		4.477				ND	
7 Trichlorofluoromethane	101		4.715				ND	
9 1,1-Dichloroethene	96		5.525				ND	
10 Carbon disulfide	76		5.567				ND	
17 Methylene Chloride	84		6.321				ND	
18 Acetone	43	6.391	6.391	0.000	100	82656	89.6	
19 trans-1,2-Dichloroethene	96		6.516				ND	U
22 Methyl tert-butyl ether	73		6.642				ND	
28 1,1-Dichloroethane	63		7.243				ND	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	80	5470	0.8045	
33 2,2-Dichloropropane	77		7.927				ND	
35 Chlorobromomethane	128		8.025				ND	
36 Chloroform	83		8.081				ND	
37 Carbon tetrachloride	117		8.234				ND	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	251405	49.6	
40 1,1,1-Trichloroethane	97		8.304				ND	
43 2-Butanone (MEK)	43	8.374	8.374	0.000	100	22489	16.5	
42 1,1-Dichloropropene	75		8.416				ND	
44 Benzene	78		8.653				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	305123	51.5	
49 1,2-Dichloroethane	62		8.849				ND	U
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1357118	50.0	
53 Trichloroethene	95		9.198				ND	
55 Dibromomethane	93		9.603				ND	
56 1,2-Dichloropropane	63		9.687				ND	
57 Dichlorobromomethane	83		9.729				ND	
61 cis-1,3-Dichloropropene	75		10.287				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	94	1244488	51.9	
63 Toluene	92	10.511	10.511	0.000	99	14005	0.7888	
66 4-Methyl-2-pentanone (MIBK	43		10.818				ND	
65 Tetrachloroethene	164		10.860				ND	
67 trans-1,3-Dichloropropene	75		10.874				ND	
68 1,1,2-Trichloroethane	83		11.027				ND	
70 Chlorodibromomethane	129		11.209				ND	
71 1,3-Dichloropropane	76		11.279				ND	
72 Ethylene Dibromide	107		11.446				ND	
74 2-Hexanone	43	11.572	11.558	0.014	57	4738	4.79	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	91	824822	50.0	
78 Ethylbenzene	91		11.879				ND	
77 Chlorobenzene	112		11.893				ND	
79 1,1,1,2-Tetrachloroethane	131		11.935				ND	
80 m-Xylene & p-Xylene	106		12.005				ND	
82 o-Xylene	106		12.410				ND	
83 Styrene	104		12.466				ND	
84 Bromoform	173		12.536				ND	
85 Isopropylbenzene	105		12.689				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.014	91	423032	53.9	
88 N-Propylbenzene	91		13.080				ND	
87 Bromobenzene	156		13.108				ND	
89 1,1,2,2-Tetrachloroethane	83		13.136				ND	
91 1,3,5-Trimethylbenzene	105		13.234				ND	
90 2-Chlorotoluene	91		13.262				ND	
92 1,2,3-Trichloropropane	110		13.304				ND	
95 4-Chlorotoluene	91		13.416				ND	
96 tert-Butylbenzene	119		13.555				ND	
97 1,2,4-Trimethylbenzene	105		13.625				ND	
98 sec-Butylbenzene	105		13.723				ND	
99 4-Isopropyltoluene	119		13.849				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	387131	50.0	
103 n-Butylbenzene	134		14.268				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.287				ND	
110 Naphthalene	128		16.307				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.502				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

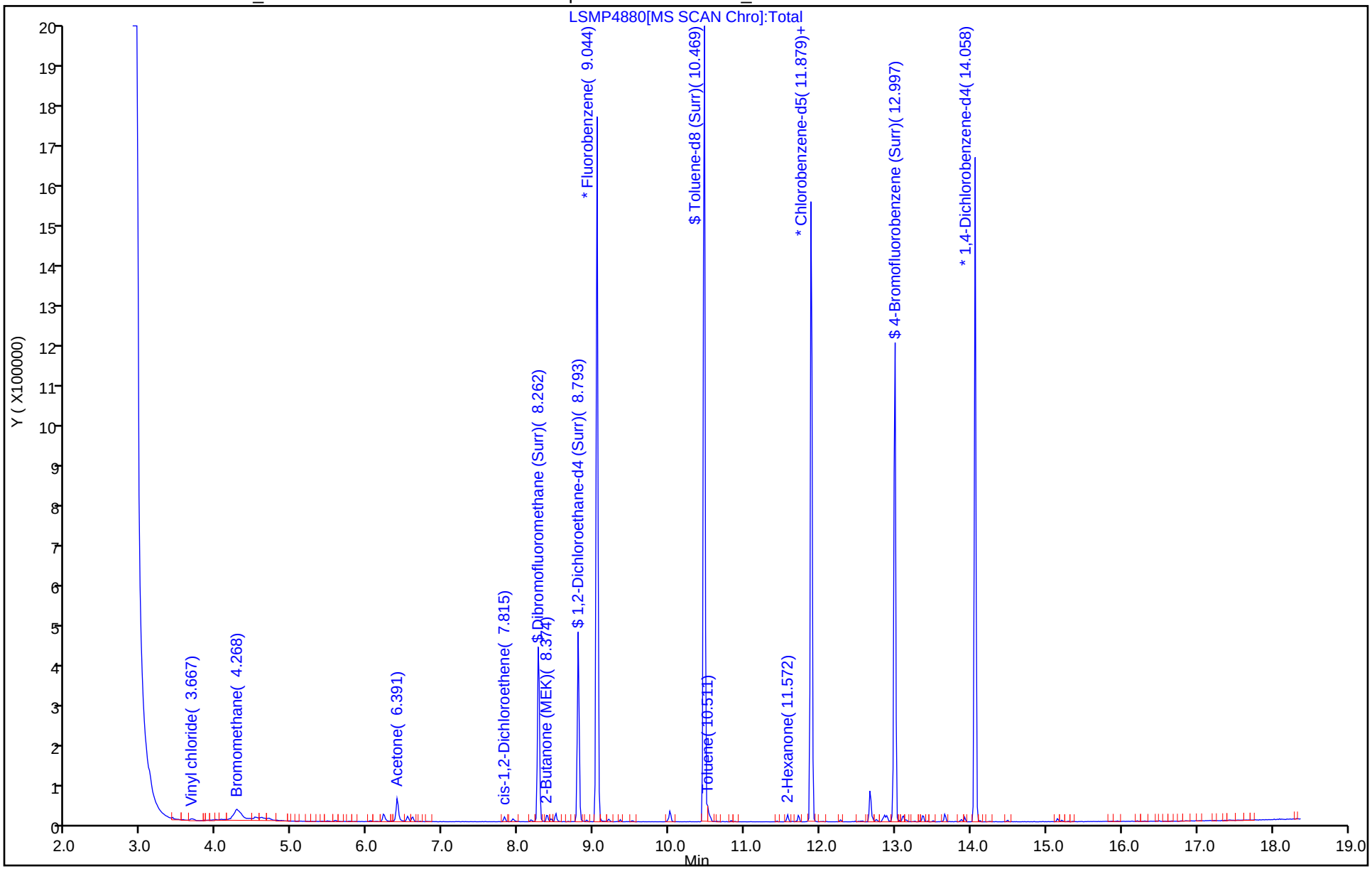
Reagents:

I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:36 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4880.D				
Injection Date:	17-Jun-2019 16:11:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	490-175605-A-5	Lab Sample ID:	160-175605-5	Worklist Smp#:	15
Client ID:	6MW2211				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4880.D
Lims ID: 490-175605-A-5
Client ID: 6MW2211
Sample Type: Client
Inject. Date: 17-Jun-2019 16:11:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-015
Misc. Info.: 490-175605-a-5
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 18-Jun-2019 15:54:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.6	99.19
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.5	102.96
$ 62 Toluene-d8 (Surr)	50.0	51.9	103.90
$ 86 4-Bromofluorobenzene (Surr)	50.0	53.9	107.80

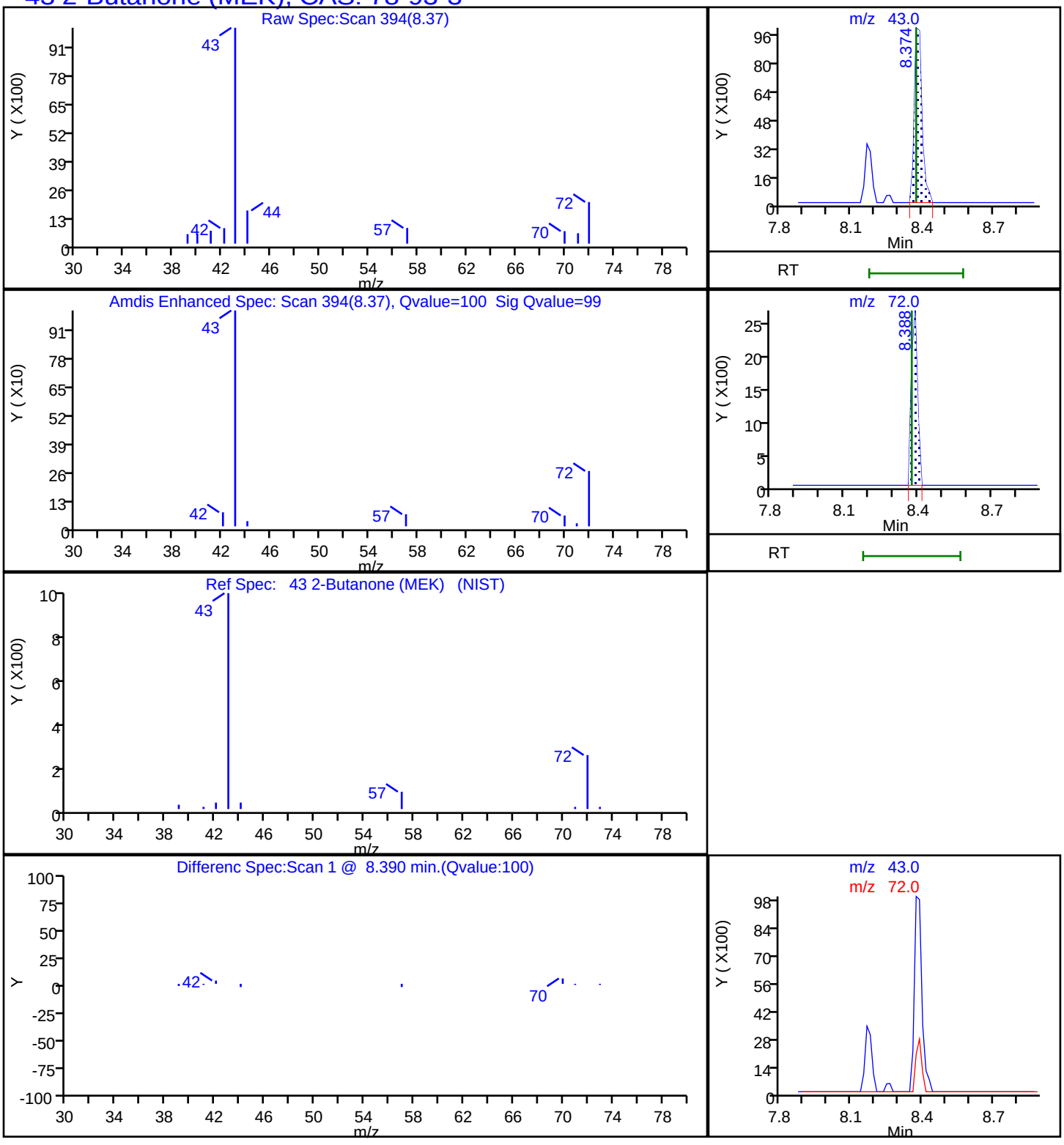
Report Date: 20-Jun-2019 11:43:36 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4880.D

Injection Date:	17-Jun-2019 16:11:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-5	Lab Sample ID:	160-175605-5		
Client ID:	6MW2211				
Operator ID:	KA	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3

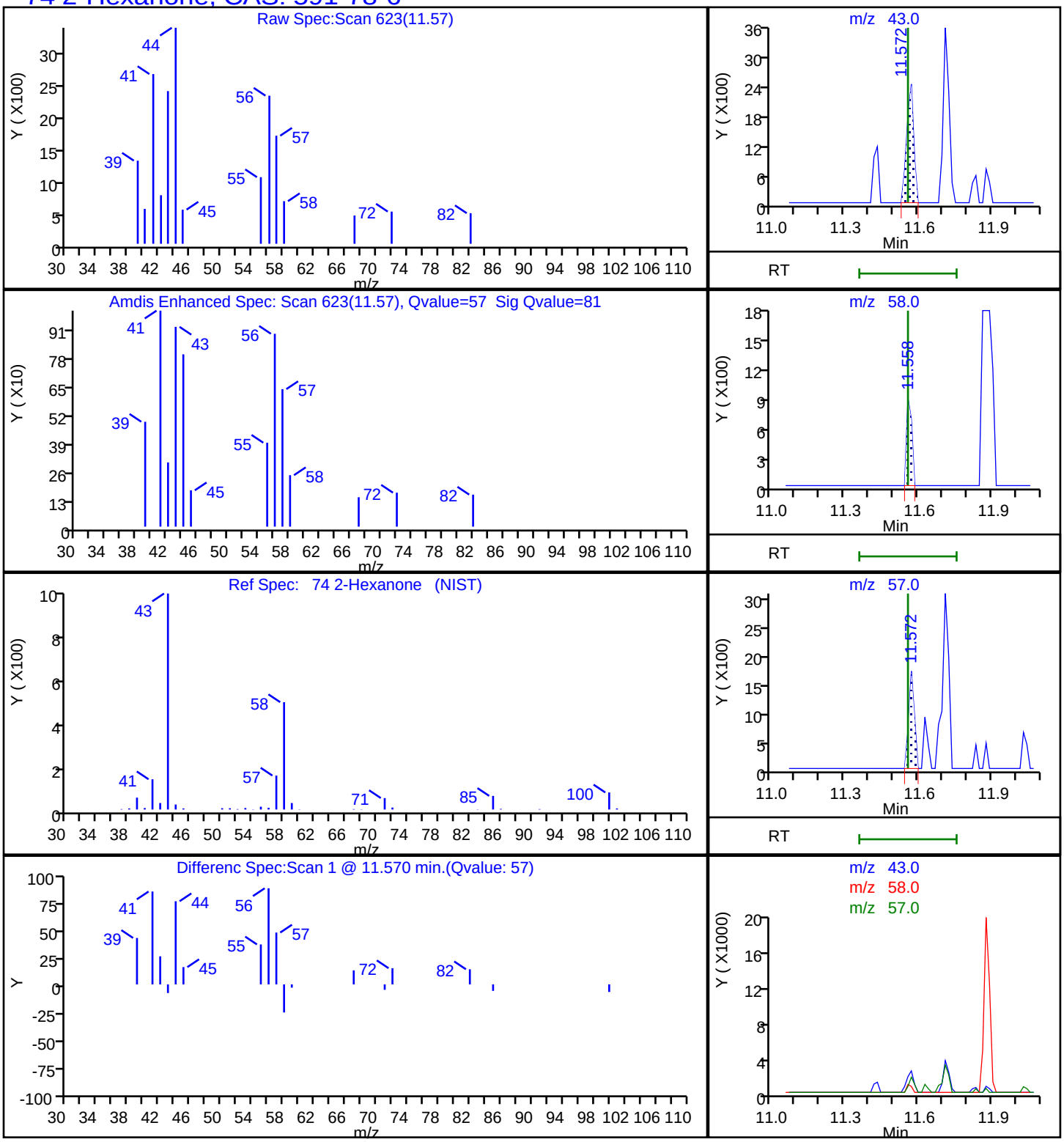


Report Date: 20-Jun-2019 11:43:36 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4880.D				
Injection Date:	17-Jun-2019 16:11:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-5	Lab Sample ID:	160-175605-5		
Client ID:	6MW2211				
Operator ID:	KA	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

74 2-Hexanone, CAS: 591-78-6

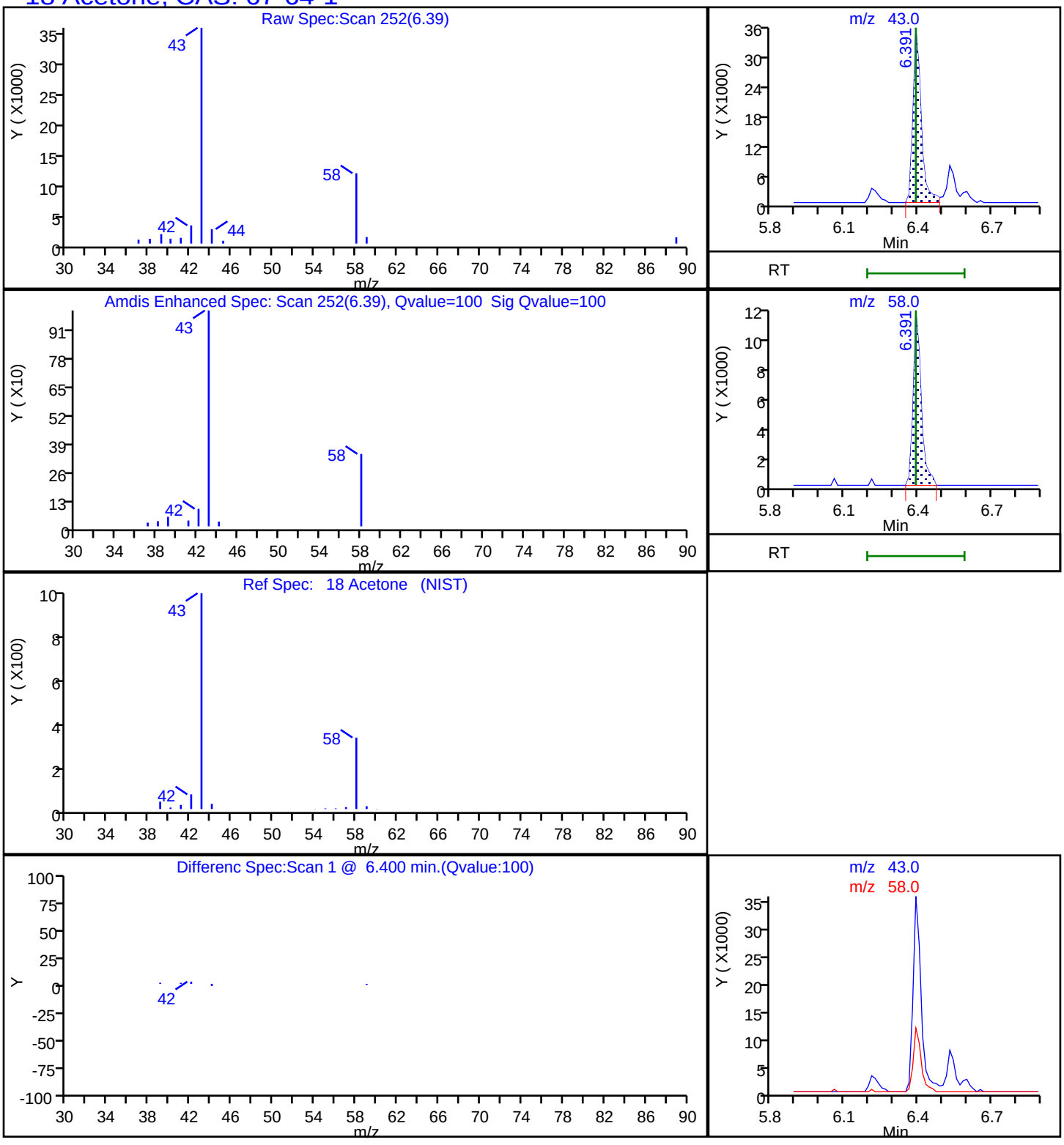


Report Date: 20-Jun-2019 11:43:36 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4880.D				
Injection Date:	17-Jun-2019 16:11:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-5	Lab Sample ID:	160-175605-5		
Client ID:	6MW2211				
Operator ID:	KA	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1

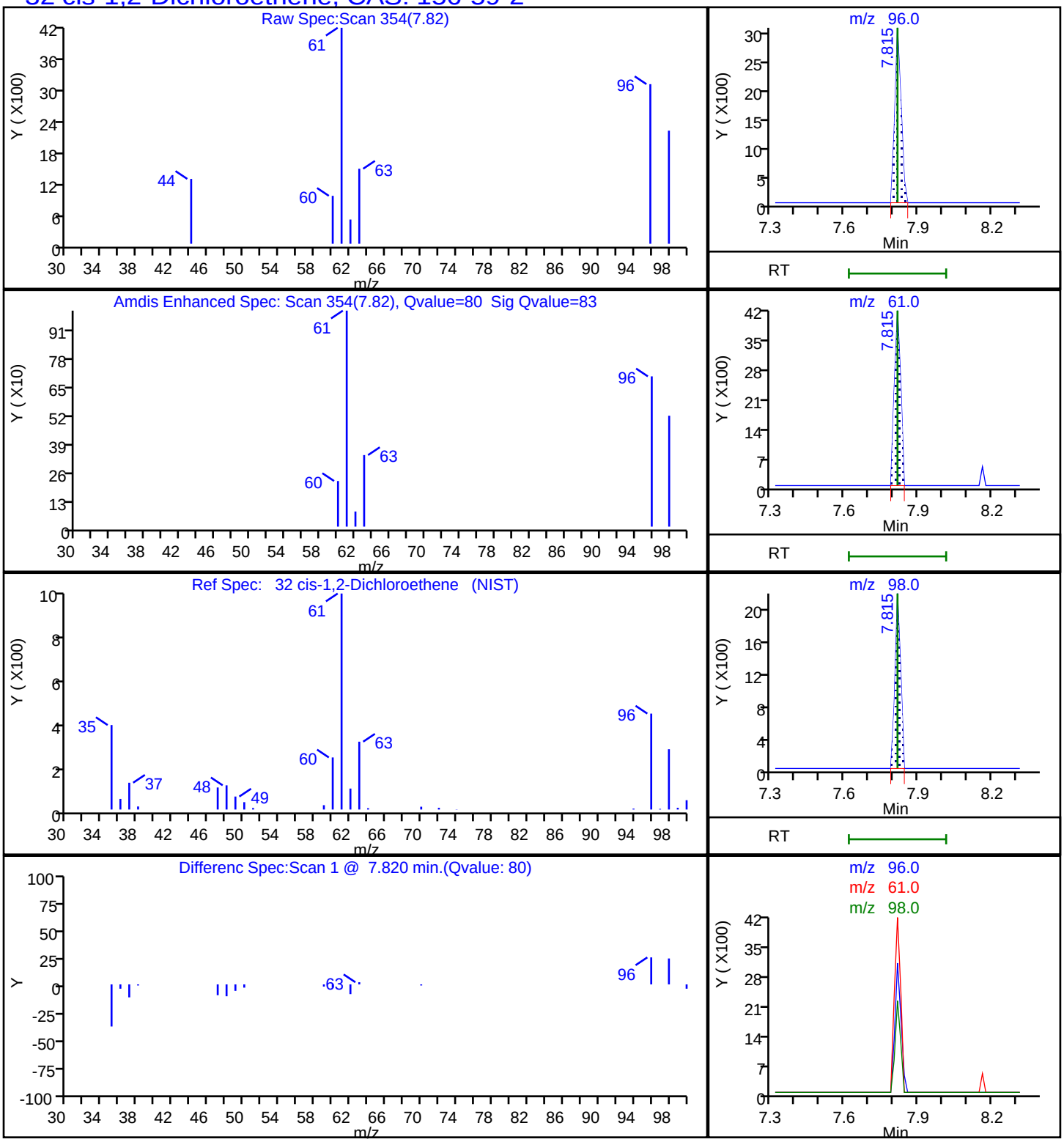


Report Date: 20-Jun-2019 11:43:36 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4880.D				
Injection Date:	17-Jun-2019 16:11:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-5	Lab Sample ID:	160-175605-5		
Client ID:	6MW2211				
Operator ID:	KA	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

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



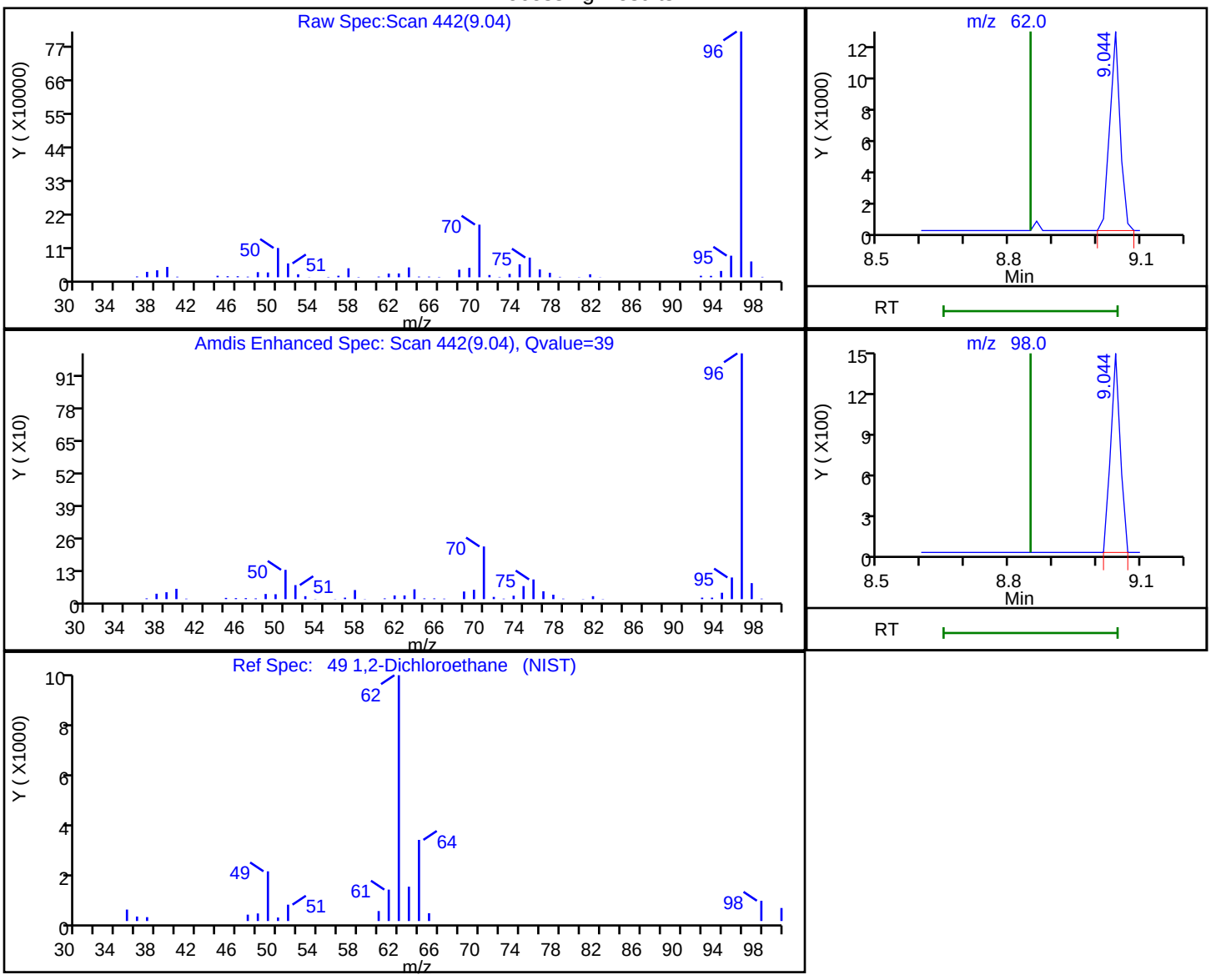
User Disabled Compound Report

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4880.D				
Injection Date:	17-Jun-2019 16:11:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-5	Lab Sample ID:	160-175605-5		
Client ID:	6MW2211				
Operator ID:	KA	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

49 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
9.04	62.00	20963	2.594011
9.04	98.00	2201	

Reviewer: aguk, 18-Jun-2019 15:54:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

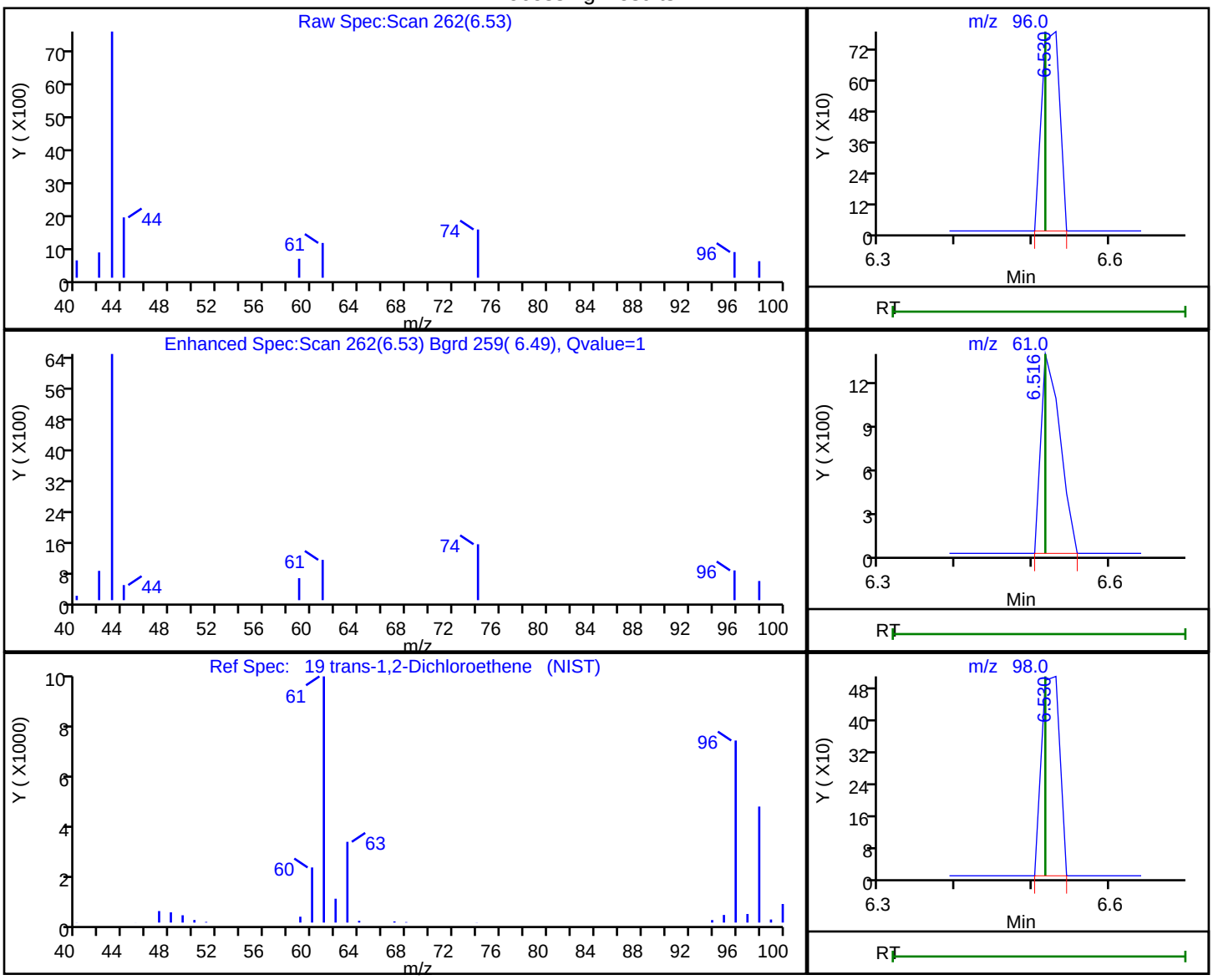
User Disabled Compound Report

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4880.D				
Injection Date:	17-Jun-2019 16:11:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-5	Lab Sample ID:	160-175605-5		
Client ID:	6MW2211				
Operator ID:	KA	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

19 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
6.53	96.00	1282	0.167691
6.52	61.00	2373	
6.53	98.00	836	

Reviewer: aguk, 18-Jun-2019 15:54:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2411 Lab Sample ID: 490-175605-6

Matrix: Water Lab File ID: LSMP4881.D

Analysis Method: 8260C DOD Date Collected: 06/06/2019 07:15

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 16:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	2.5	U M	5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	26		20	5.0	2.4
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	4.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	4.6
67-64-1	Acetone	6.5	J	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.81
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.72
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.77
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	1.0
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.59
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.77
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	3.3	J	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2411 Lab Sample ID: 490-175605-6

Matrix: Water Lab File ID: LSMP4881.D

Analysis Method: 8260C DOD Date Collected: 06/06/2019 07:15

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 16:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.97
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.6
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	1.8	J	5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.6
75-01-4	Vinyl chloride	2.3	J	5.0	2.0	1.0
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		81-118
460-00-4	4-Bromofluorobenzene (Surr)	112		85-114
1868-53-7	Dibromofluoromethane (Surr)	99		80-119
2037-26-5	Toluene-d8 (Surr)	103		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4881.D
Lims ID: 490-175605-A-6
Client ID: 6MW2411
Sample Type: Client
Inject. Date: 17-Jun-2019 16:36:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-016
Misc. Info.: 490-175605-a-6
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 18-Jun-2019 15:55:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.150				ND	
3 Chloromethane	50		3.500				ND	
4 Vinyl chloride	62	3.667	3.667	0.000	97	24555	2.33	
5 Bromomethane	94	4.254	4.268	-0.014	89	5666	1.24	
6 Chloroethane	64		4.477				ND	
7 Trichlorofluoromethane	101		4.715				ND	
9 1,1-Dichloroethene	96		5.525				ND	
10 Carbon disulfide	76		5.567				ND	
17 Methylene Chloride	84		6.321				ND	
18 Acetone	43	6.404	6.391	0.013	98	6417	6.54	
19 trans-1,2-Dichloroethene	96		6.516				ND	
22 Methyl tert-butyl ether	73		6.642				ND	
28 1,1-Dichloroethane	63		7.243				ND	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	83	24078	3.33	
33 2,2-Dichloropropane	77		7.927				ND	
35 Chlorobromomethane	128		8.025				ND	
36 Chloroform	83		8.081				ND	
37 Carbon tetrachloride	117		8.234				ND	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	266427	49.4	
40 1,1,1-Trichloroethane	97		8.304				ND	
43 2-Butanone (MEK)	43	8.388	8.374	0.014	99	37900	26.1	
42 1,1-Dichloropropene	75		8.416				ND	
44 Benzene	78		8.653				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	99	322332	51.2	
49 1,2-Dichloroethane	62		8.849				ND	U
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1442764	50.0	
53 Trichloroethene	95	9.198	9.198	0.000	91	14202	1.76	
55 Dibromomethane	93		9.603				ND	
56 1,2-Dichloropropane	63		9.687				ND	
57 Dichlorobromomethane	83		9.729				ND	
61 cis-1,3-Dichloropropene	75		10.287				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	1324575	51.5	
63 Toluene	92	10.510	10.511	-0.001	99	11542	0.6059	
66 4-Methyl-2-pentanone (MIBK	43		10.818				ND	
65 Tetrachloroethene	164		10.860				ND	
67 trans-1,3-Dichloropropene	75		10.874				ND	
68 1,1,2-Trichloroethane	83		11.027				ND	
70 Chlorodibromomethane	129		11.209				ND	
71 1,3-Dichloropropane	76		11.279				ND	
72 Ethylene Dibromide	107		11.446				ND	
74 2-Hexanone	43		11.558				ND	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	91	884931	50.0	
78 Ethylbenzene	91	11.879	11.879	0.000	45	6564	0.1762	
77 Chlorobenzene	112		11.893				ND	
79 1,1,1,2-Tetrachloroethane	131		11.935				ND	
80 m-Xylene & p-Xylene	106		12.005				ND	
82 o-Xylene	106		12.410				ND	
83 Styrene	104		12.466				ND	
84 Bromoform	173		12.536				ND	
85 Isopropylbenzene	105		12.689				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.996	12.983	0.013	91	462824	55.8	
88 N-Propylbenzene	91		13.080				ND	
87 Bromobenzene	156		13.108				ND	
89 1,1,2,2-Tetrachloroethane	83		13.136				ND	
91 1,3,5-Trimethylbenzene	105		13.234				ND	
90 2-Chlorotoluene	91		13.262				ND	
92 1,2,3-Trichloropropane	110		13.304				ND	
95 4-Chlorotoluene	91		13.416				ND	
96 tert-Butylbenzene	119		13.555				ND	
97 1,2,4-Trimethylbenzene	105		13.625				ND	
98 sec-Butylbenzene	105		13.723				ND	
99 4-Isopropyltoluene	119		13.849				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	408993	50.0	
103 n-Butylbenzene	134		14.268				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.287				ND	
110 Naphthalene	128		16.307				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.502				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

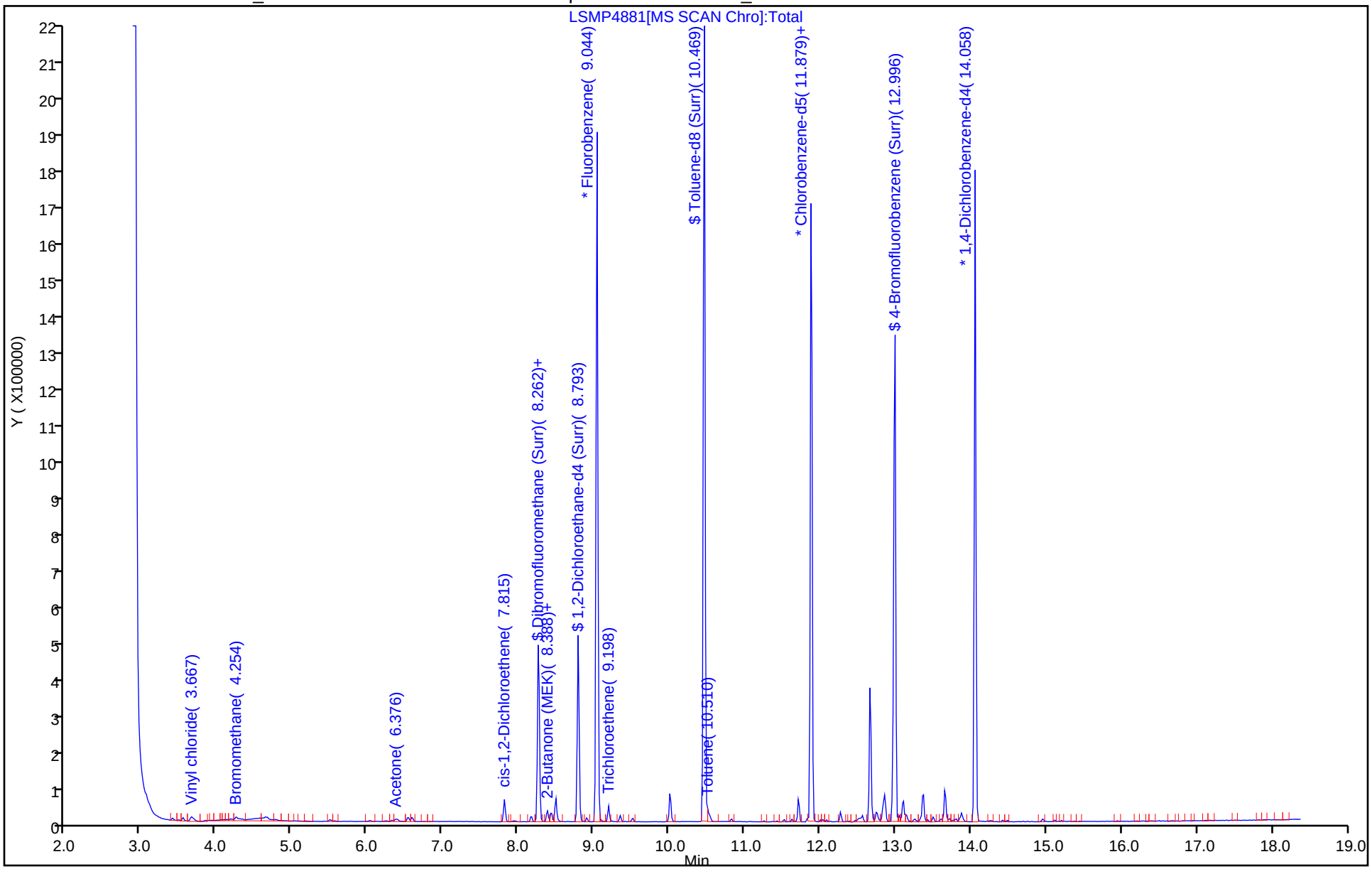
Reagents:

I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:37 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4881.D				
Injection Date:	17-Jun-2019 16:36:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	490-175605-A-6	Lab Sample ID:	160-175605-6	Worklist Smp#:	16
Client ID:	6MW2411				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4881.D
Lims ID: 490-175605-A-6
Client ID: 6MW2411
Sample Type: Client
Inject. Date: 17-Jun-2019 16:36:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-016
Misc. Info.: 490-175605-a-6
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 18-Jun-2019 15:55:48

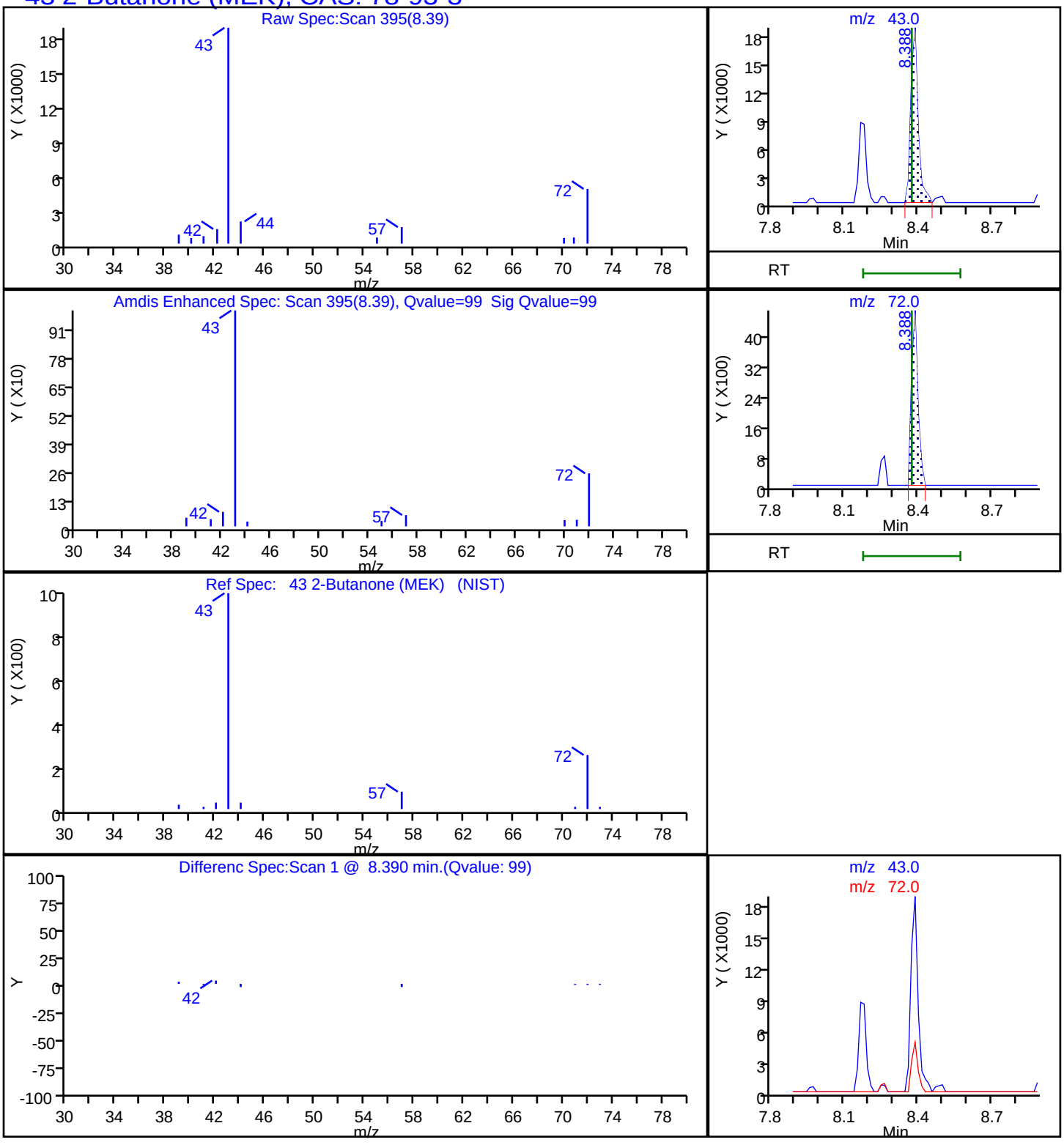
Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.4	98.88
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.2	102.31
$ 62 Toluene-d8 (Surr)	50.0	51.5	103.07
$ 86 4-Bromofluorobenzene (Surr)	50.0	55.8	111.64

Report Date: 20-Jun-2019 11:43:38 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4881.D				
Injection Date:	17-Jun-2019 16:36:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-6	Lab Sample ID:	160-175605-6		
Client ID:	6MW2411				
Operator ID:	KA	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3

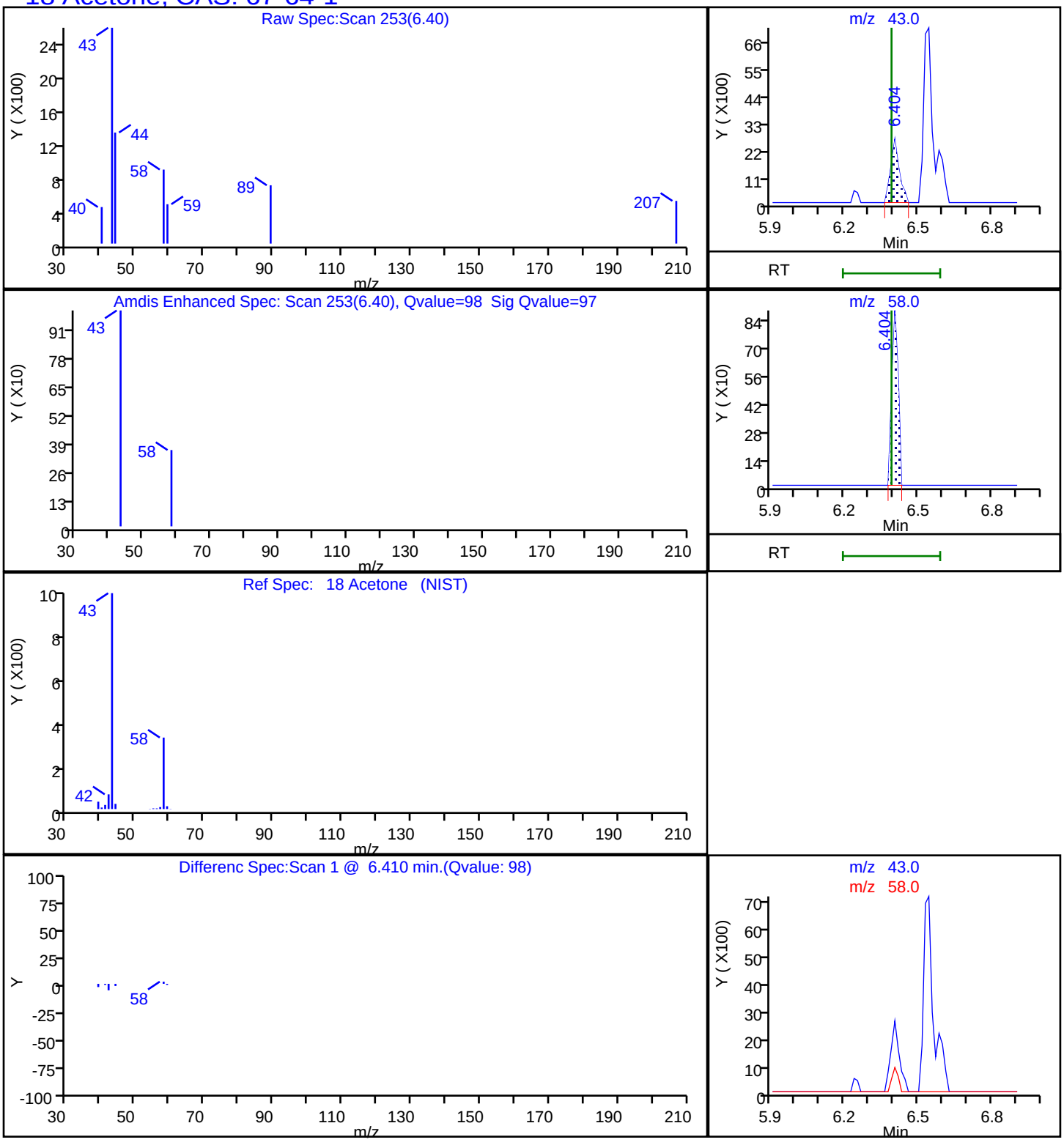


Report Date: 20-Jun-2019 11:43:37 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4881.D		
Injection Date:	17-Jun-2019 16:36:30	Instrument ID:	VMSL
Lims ID:	490-175605-A-6	Lab Sample ID:	160-175605-6
Client ID:	6MW2411		
Operator ID:	KA	ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

18 Acetone, CAS: 67-64-1

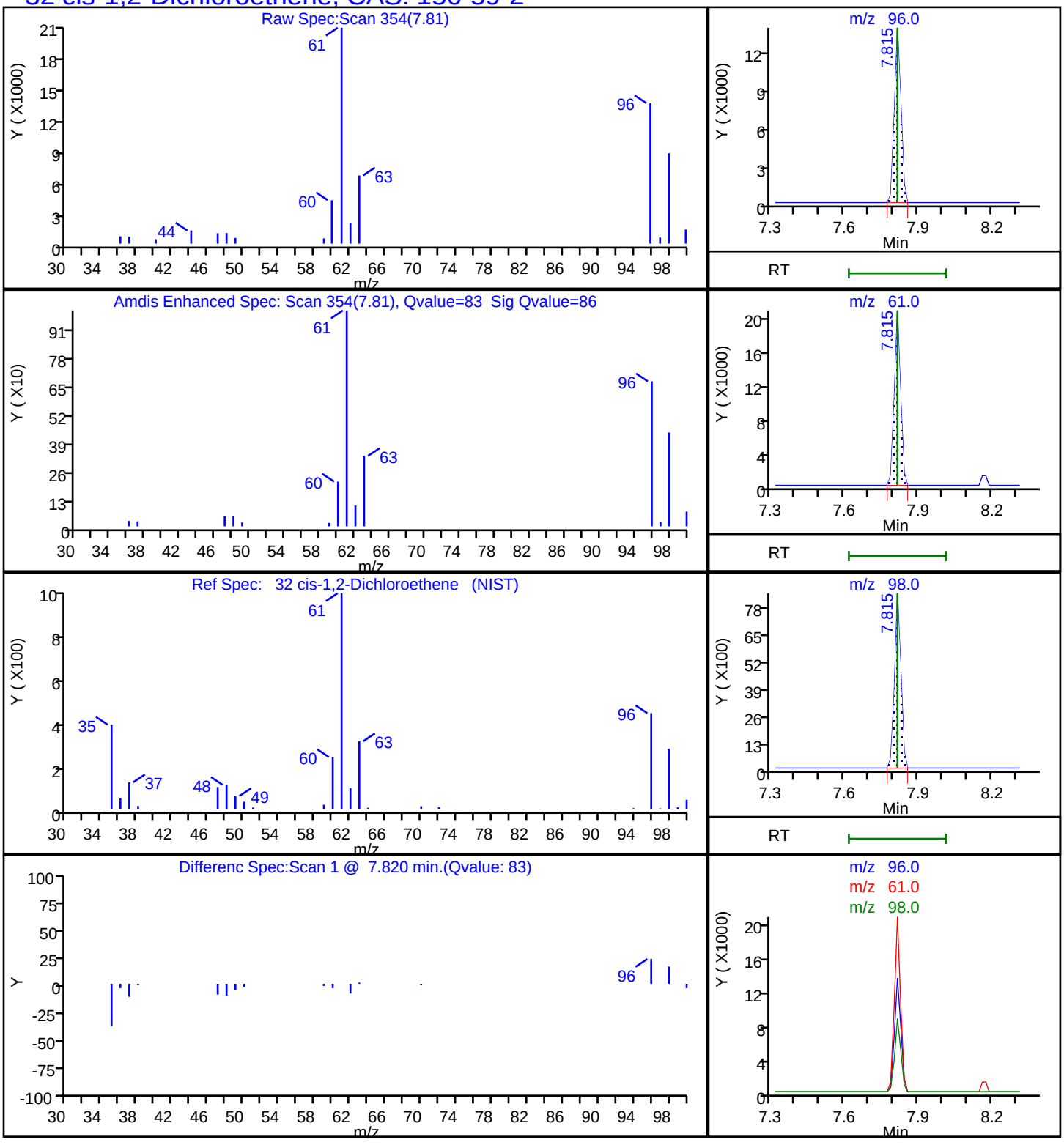


Report Date: 20-Jun-2019 11:43:37 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4881.D				
Injection Date:	17-Jun-2019 16:36:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-6	Lab Sample ID:	160-175605-6		
Client ID:	6MW2411				
Operator ID:	KA	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

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

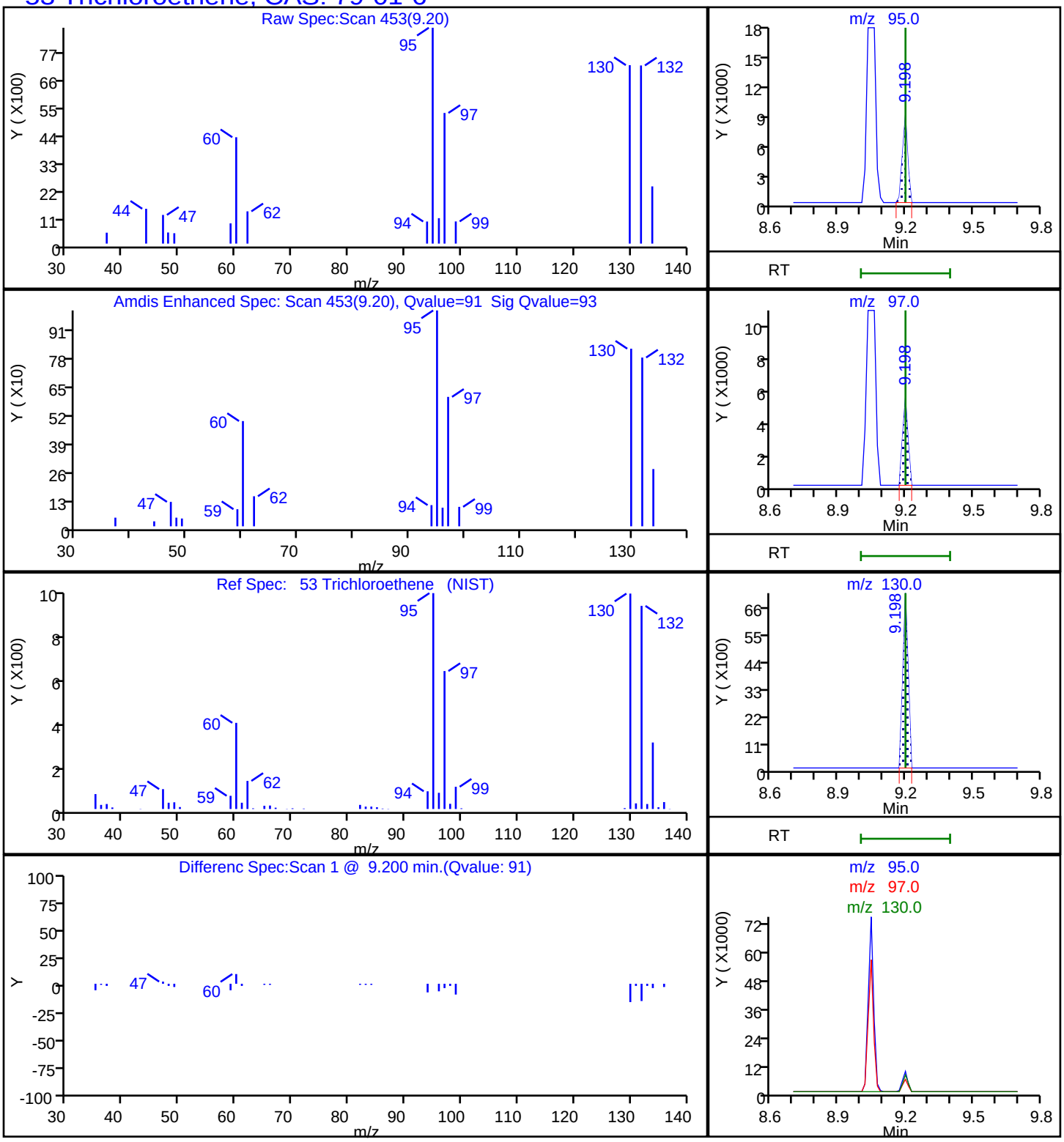


Report Date: 20-Jun-2019 11:43:38 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4881.D		
Injection Date:	17-Jun-2019 16:36:30	Instrument ID:	VMSL
Lims ID:	490-175605-A-6	Lab Sample ID:	160-175605-6
Client ID:	6MW2411		
Operator ID:	KA	ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

53 Trichloroethene, CAS: 79-01-6



Report Date: 20-Jun-2019 11:43:37 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4881.D

Injection Date: 17-Jun-2019 16:36:30 Instrument ID: VMSL

Lims ID: 490-175605-A-6 Lab Sample ID: 160-175605-6

Client ID: 6MW2411

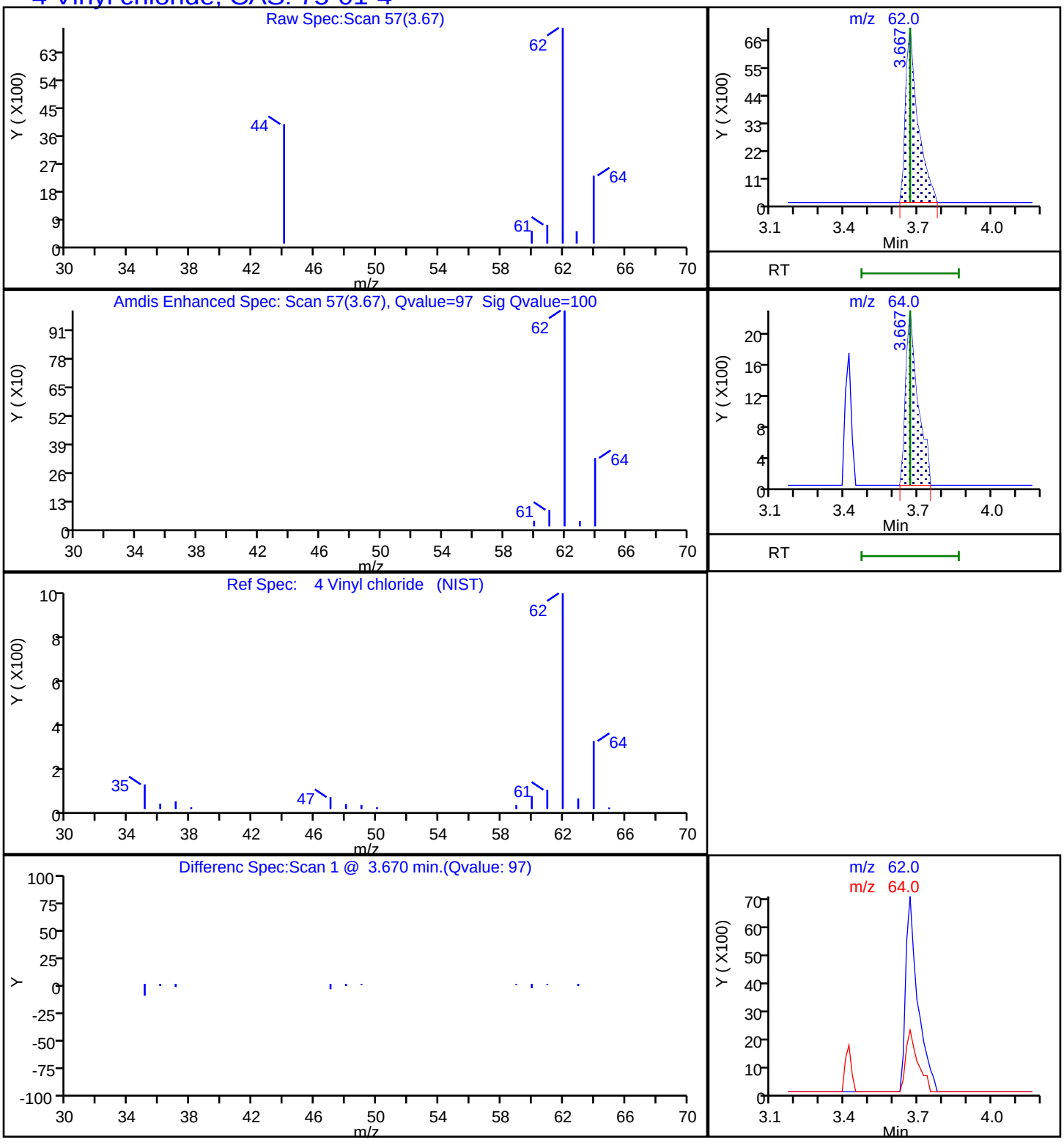
Operator ID: KA ALS Bottle#: 15 Worklist Smp#: 16

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD

Column: Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4



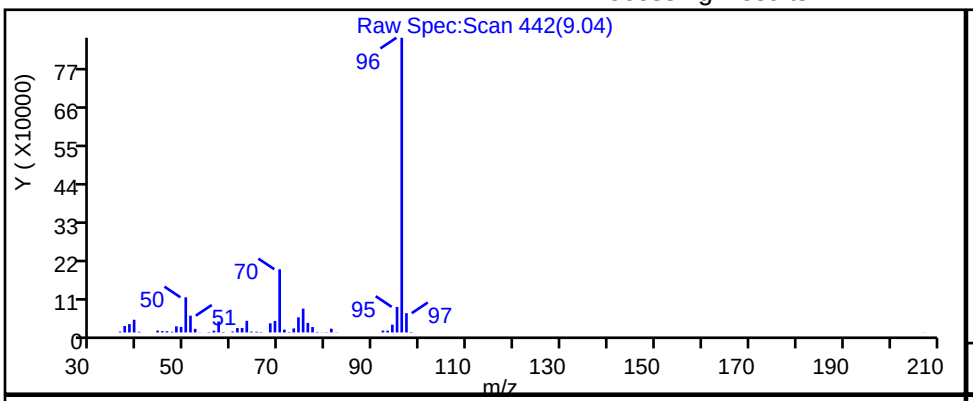
User Disabled Compound Report

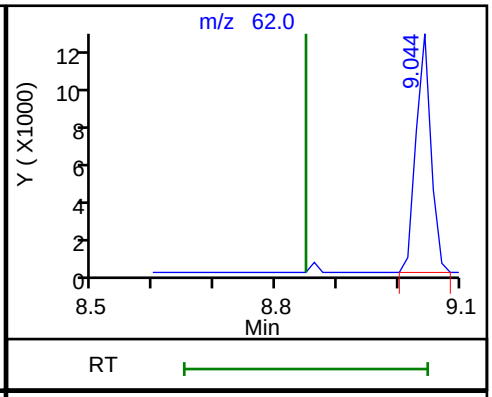
Eurofins TestAmerica, St. Louis

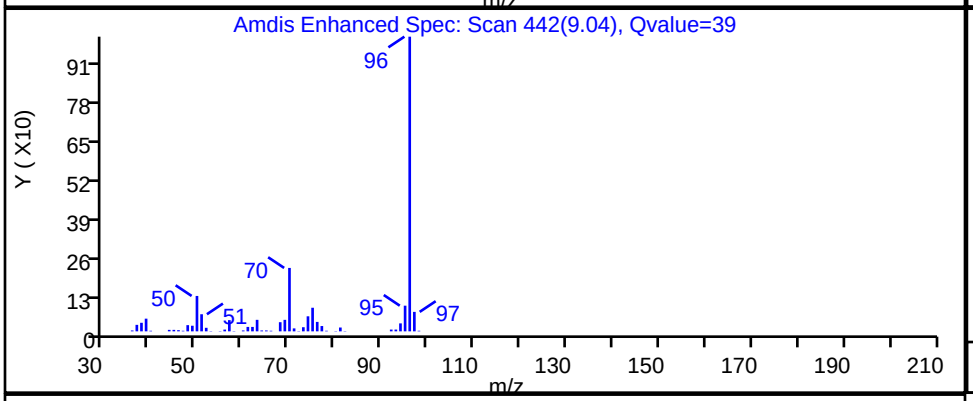
Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4881.D				
Injection Date:	17-Jun-2019 16:36:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-6	Lab Sample ID:	160-175605-6		
Client ID:	6MW2411				
Operator ID:	KA	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

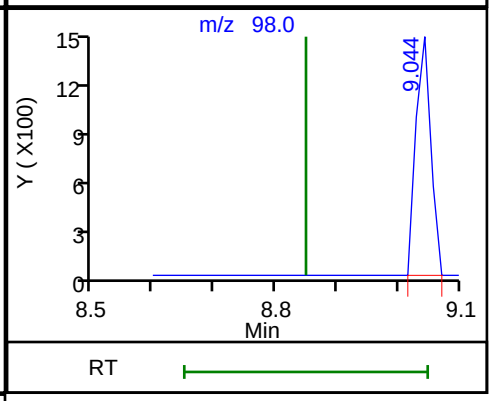
49 1,2-Dichloroethane, CAS: 107-06-2

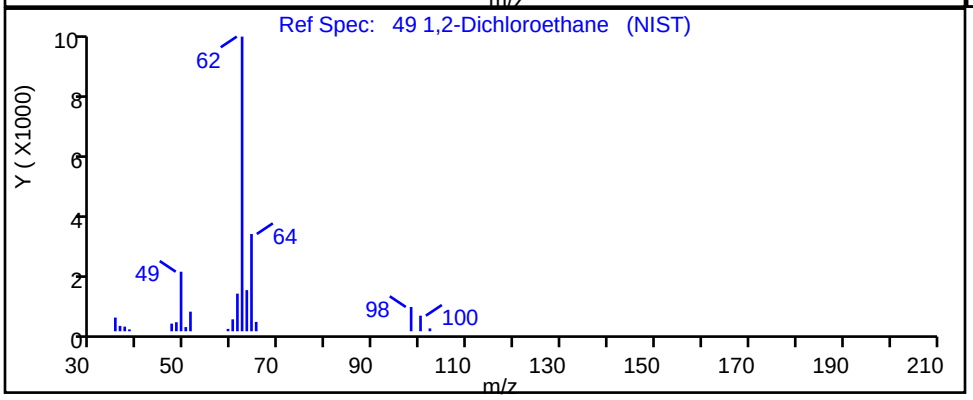
Processing Results











RT	Mass	Response	Amount
9.04	62.00	21922	2.551648
9.04	98.00	2462	

Reviewer: aguk, 18-Jun-2019 15:55:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: FB07 Lab Sample ID: 490-175605-7

Matrix: Water Lab File ID: LSMP4882.D

Analysis Method: 8260C DOD Date Collected: 06/06/2019 06:50

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 17:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	2.5	U	5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	26		20	5.0	2.4
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	4.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	4.6
67-64-1	Acetone	10	J	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.81
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.72
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.77
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	1.0
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.59
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.77
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	2.5	U	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: FB07 Lab Sample ID: 490-175605-7

Matrix: Water Lab File ID: LSMP4882.D

Analysis Method: 8260C DOD Date Collected: 06/06/2019 06:50

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 17:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.97
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.6
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.6
75-01-4	Vinyl chloride	2.0	U	5.0	2.0	1.0
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		81-118
460-00-4	4-Bromofluorobenzene (Surr)	111		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	105		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4882.D
Lims ID: 490-175605-A-7
Client ID: FB07
Sample Type: Client
Inject. Date: 17-Jun-2019 17:01:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-017
Misc. Info.: 490-175605-a-7
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 18-Jun-2019 15:56:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.150				ND	
3 Chloromethane	50		3.500				ND	
4 Vinyl chloride	62		3.667				ND	
5 Bromomethane	94	4.254	4.268	-0.014	85	4554	0.9845	
6 Chloroethane	64		4.477				ND	
7 Trichlorofluoromethane	101		4.715				ND	
9 1,1-Dichloroethene	96		5.525				ND	
10 Carbon disulfide	76		5.567				ND	
17 Methylene Chloride	84	6.321	6.321	0.000	94	6974	1.05	
18 Acetone	43	6.405	6.391	0.013	99	10017	10.1	
19 trans-1,2-Dichloroethene	96		6.516				ND	
22 Methyl tert-butyl ether	73		6.642				ND	
28 1,1-Dichloroethane	63		7.243				ND	
32 cis-1,2-Dichloroethene	96		7.815				ND	
33 2,2-Dichloropropane	77		7.927				ND	
35 Chlorobromomethane	128		8.025				ND	
36 Chloroform	83		8.081				ND	
37 Carbon tetrachloride	117		8.234				ND	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	271524	49.8	
40 1,1,1-Trichloroethane	97		8.304				ND	
43 2-Butanone (MEK)	43	8.388	8.374	0.014	99	38741	26.4	
42 1,1-Dichloropropene	75		8.416				ND	
44 Benzene	78		8.653				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	328926	51.6	
49 1,2-Dichloroethane	62		8.849				ND	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1460955	50.0	
53 Trichloroethene	95		9.198				ND	
55 Dibromomethane	93		9.603				ND	
56 1,2-Dichloropropane	63		9.687				ND	
57 Dichlorobromomethane	83		9.729				ND	
61 cis-1,3-Dichloropropene	75		10.287				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	1367486	52.5	
63 Toluene	92	10.511	10.511	0.000	97	12614	0.6533	
66 4-Methyl-2-pentanone (MIBK	43		10.818				ND	
65 Tetrachloroethene	164		10.860				ND	
67 trans-1,3-Dichloropropene	75		10.874				ND	
68 1,1,2-Trichloroethane	83		11.027				ND	
70 Chlorodibromomethane	129		11.209				ND	
71 1,3-Dichloropropane	76		11.279				ND	
72 Ethylene Dibromide	107		11.446				ND	
74 2-Hexanone	43		11.558				ND	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	90	896936	50.0	
78 Ethylbenzene	91	11.893	11.879	0.014	45	6394	0.1694	
77 Chlorobenzene	112		11.893				ND	
79 1,1,1,2-Tetrachloroethane	131		11.935				ND	
80 m-Xylene & p-Xylene	106		12.005				ND	
82 o-Xylene	106		12.410				ND	
83 Styrene	104		12.466				ND	
84 Bromoform	173		12.536				ND	
85 Isopropylbenzene	105		12.689				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.014	91	472851	55.3	
88 N-Propylbenzene	91		13.080				ND	
87 Bromobenzene	156		13.108				ND	
89 1,1,2,2-Tetrachloroethane	83		13.136				ND	
91 1,3,5-Trimethylbenzene	105		13.234				ND	
90 2-Chlorotoluene	91		13.262				ND	
92 1,2,3-Trichloropropane	110		13.304				ND	
95 4-Chlorotoluene	91		13.416				ND	
96 tert-Butylbenzene	119		13.555				ND	
97 1,2,4-Trimethylbenzene	105		13.625				ND	
98 sec-Butylbenzene	105		13.723				ND	
99 4-Isopropyltoluene	119		13.849				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	421682	50.0	
103 n-Butylbenzene	134		14.268				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.287				ND	
110 Naphthalene	128		16.307				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.502				ND	

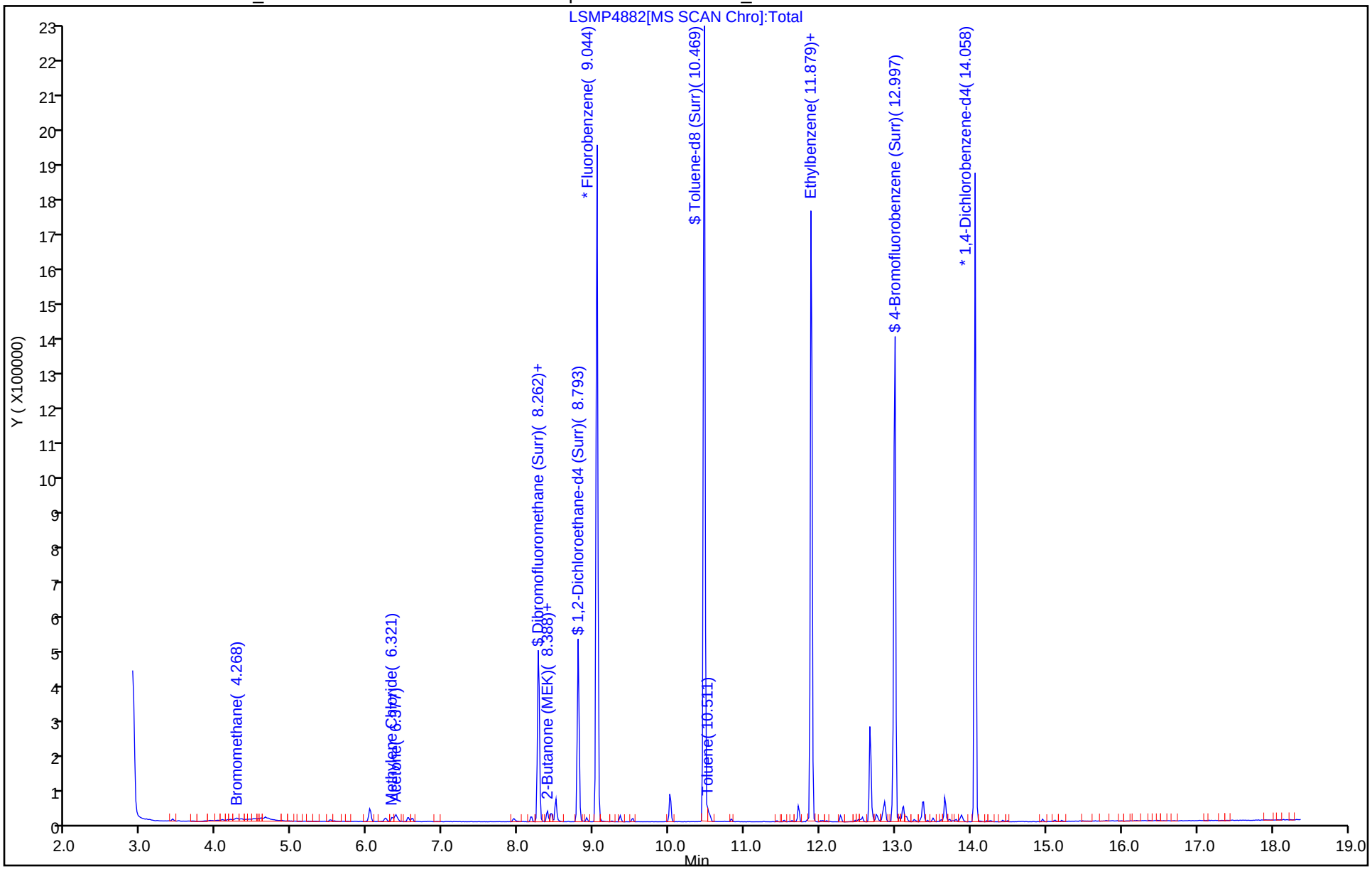
Reagents:

I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:39 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4882.D				
Injection Date:	17-Jun-2019 17:01:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	490-175605-A-7	Lab Sample ID:	160-175605-7	Worklist Smp#:	17
Client ID:	FB07				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4882.D
Lims ID: 490-175605-A-7
Client ID: FB07
Sample Type: Client
Inject. Date: 17-Jun-2019 17:01:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-017
Misc. Info.: 490-175605-a-7
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 18-Jun-2019 15:56:27

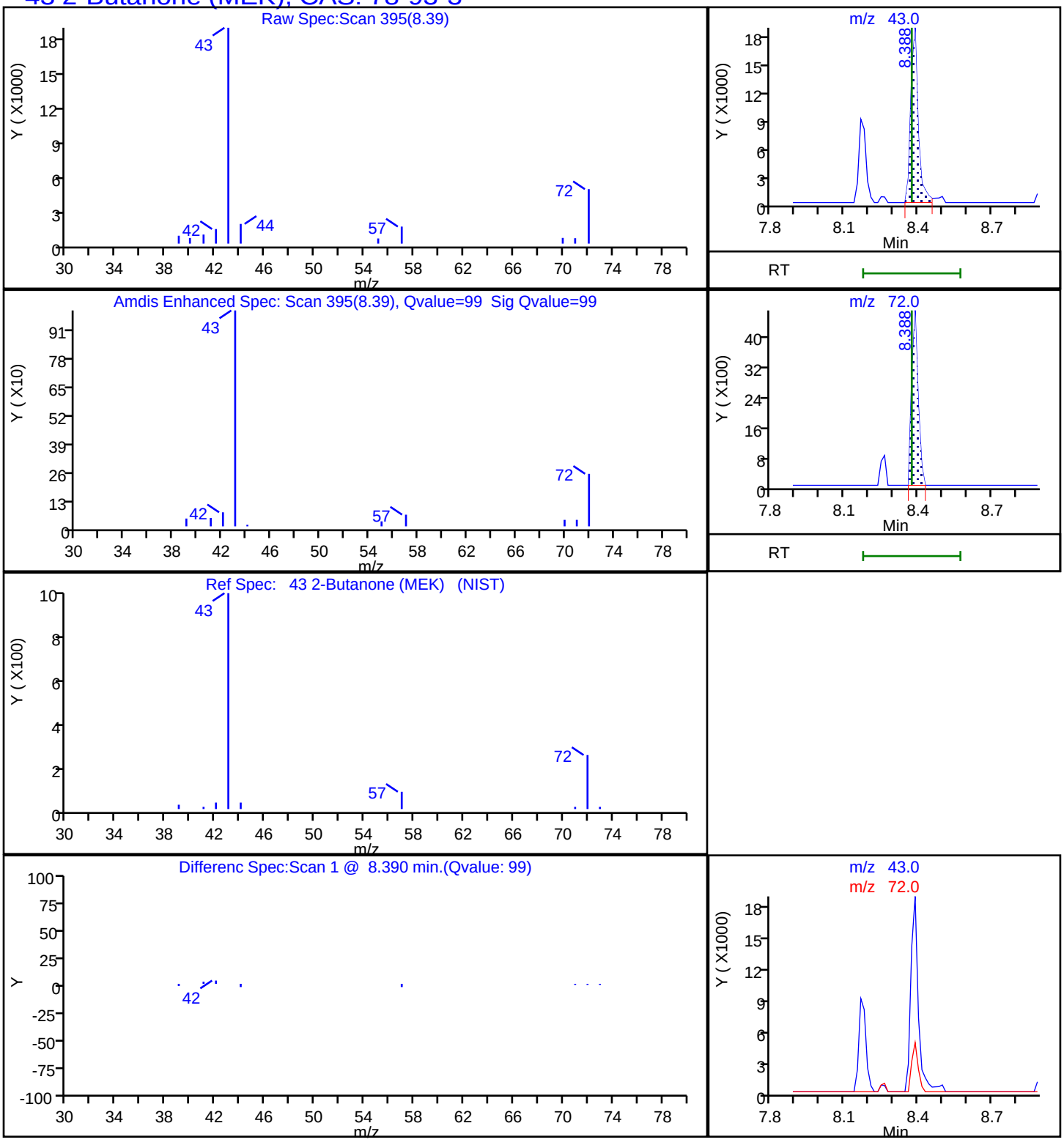
Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.8	99.52
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.6	103.11
$ 62 Toluene-d8 (Surr)	50.0	52.5	104.99
$ 86 4-Bromofluorobenzene (Surr)	50.0	55.3	110.63

Report Date: 20-Jun-2019 11:43:39 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4882.D				
Injection Date:	17-Jun-2019 17:01:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-7	Lab Sample ID:	160-175605-7		
Client ID:	FB07				
Operator ID:	KA	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3

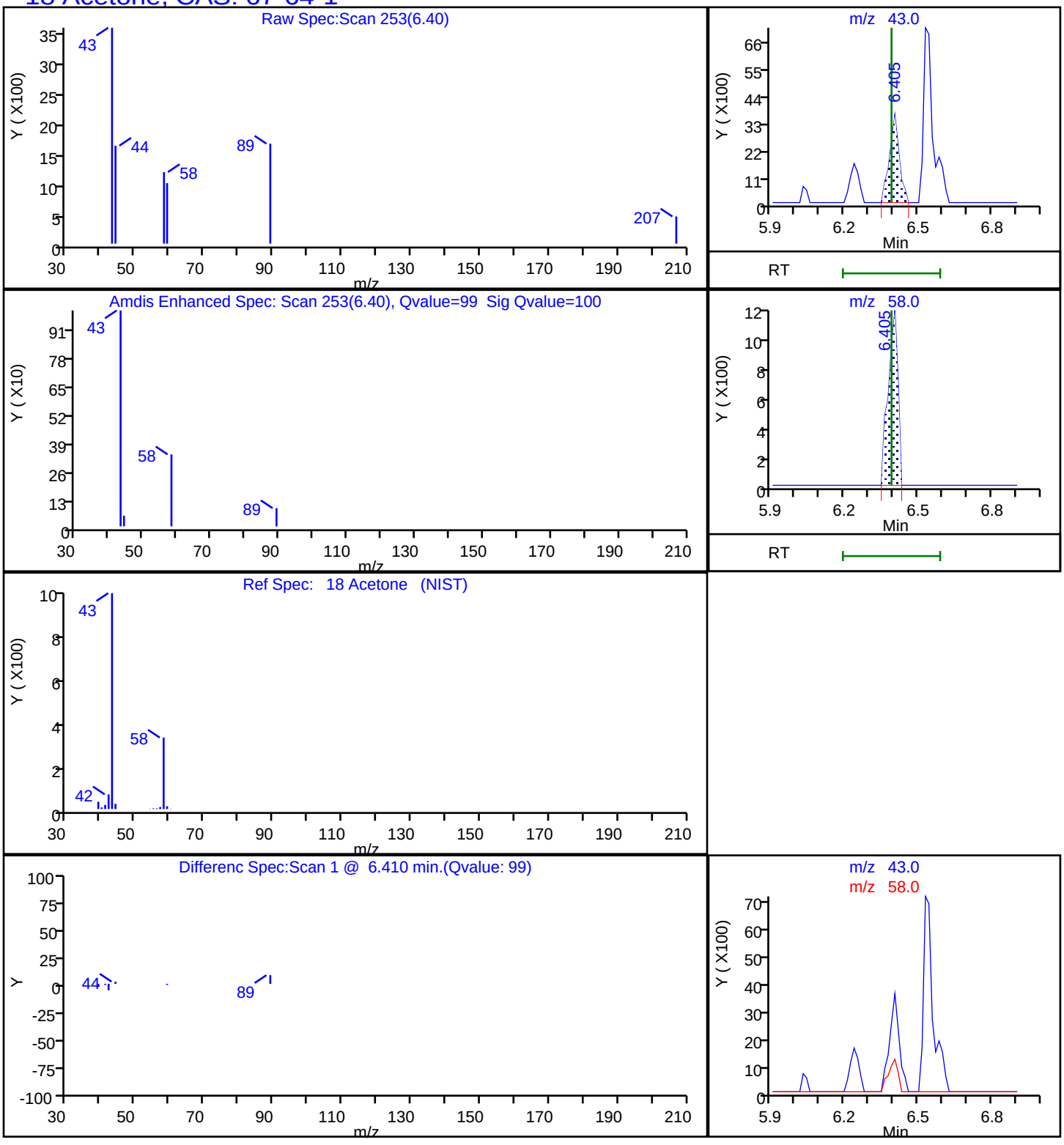


Report Date: 20-Jun-2019 11:43:39 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4882.D		
Injection Date:	17-Jun-2019 17:01:30	Instrument ID:	VMSL
Lims ID:	490-175605-A-7	Lab Sample ID:	160-175605-7
Client ID:	FB07		
Operator ID:	KA	ALS Bottle#:	16 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

18 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: TB Lab Sample ID: 490-175605-8

Matrix: Water Lab File ID: LSMP4883.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 12:40

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 17:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	2.5	U	5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	14	J	20	5.0	2.4
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	4.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	4.6
67-64-1	Acetone	3.3	J	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.81
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.72
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.77
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	1.0
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.59
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.77
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	2.5	U	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: TB Lab Sample ID: 490-175605-8

Matrix: Water Lab File ID: LSMP4883.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 12:40

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 17:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.97
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.6
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.6
75-01-4	Vinyl chloride	2.0	U	5.0	2.0	1.0
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		81-118
460-00-4	4-Bromofluorobenzene (Surr)	110		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	105		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4883.D
Lims ID: 490-175605-A-8
Client ID: TB
Sample Type: Client
Inject. Date: 17-Jun-2019 17:26:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-018
Misc. Info.: 490-175605-a-8
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 18-Jun-2019 15:56:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.150				ND	
3 Chloromethane	50		3.500				ND	
4 Vinyl chloride	62		3.667				ND	
5 Bromomethane	94	4.268	4.268	0.000	75	1669	0.3704	
6 Chloroethane	64		4.477				ND	
7 Trichlorofluoromethane	101		4.715				ND	
9 1,1-Dichloroethene	96		5.525				ND	
10 Carbon disulfide	76		5.567				ND	
17 Methylene Chloride	84		6.321				ND	
18 Acetone	43	6.390	6.391	-0.001	98	3190	3.30	
19 trans-1,2-Dichloroethene	96		6.516				ND	
22 Methyl tert-butyl ether	73		6.642				ND	
28 1,1-Dichloroethane	63		7.243				ND	
32 cis-1,2-Dichloroethene	96		7.815				ND	
33 2,2-Dichloropropane	77		7.927				ND	
35 Chlorobromomethane	128		8.025				ND	
36 Chloroform	83		8.081				ND	
37 Carbon tetrachloride	117		8.234				ND	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	265410	49.9	
40 1,1,1-Trichloroethane	97		8.304				ND	
43 2-Butanone (MEK)	43	8.388	8.374	0.014	99	19852	13.9	
42 1,1-Dichloropropene	75		8.416				ND	
44 Benzene	78		8.653				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	320125	51.5	
49 1,2-Dichloroethane	62		8.849				ND	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1423202	50.0	
53 Trichloroethene	95		9.198				ND	
55 Dibromomethane	93		9.603				ND	
56 1,2-Dichloropropane	63		9.687				ND	
57 Dichlorobromomethane	83		9.729				ND	
61 cis-1,3-Dichloropropene	75		10.287				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	94	1319813	52.4	
63 Toluene	92	10.511	10.511	0.000	98	7127	0.3816	
66 4-Methyl-2-pentanone (MIBK	43		10.818				ND	
65 Tetrachloroethene	164		10.860				ND	
67 trans-1,3-Dichloropropene	75		10.874				ND	
68 1,1,2-Trichloroethane	83		11.027				ND	
70 Chlorodibromomethane	129		11.209				ND	
71 1,3-Dichloropropane	76		11.279				ND	
72 Ethylene Dibromide	107		11.446				ND	
74 2-Hexanone	43		11.558				ND	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	91	867650	50.0	
78 Ethylbenzene	91		11.879				ND	
77 Chlorobenzene	112		11.893				ND	
79 1,1,1,2-Tetrachloroethane	131		11.935				ND	
80 m-Xylene & p-Xylene	106		12.005				ND	
82 o-Xylene	106		12.410				ND	
83 Styrene	104		12.466				ND	
84 Bromoform	173		12.536				ND	
85 Isopropylbenzene	105		12.689				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.013	91	452000	55.0	
88 N-Propylbenzene	91		13.080				ND	
87 Bromobenzene	156		13.108				ND	
89 1,1,2,2-Tetrachloroethane	83		13.136				ND	
91 1,3,5-Trimethylbenzene	105		13.234				ND	
90 2-Chlorotoluene	91		13.262				ND	
92 1,2,3-Trichloropropane	110		13.304				ND	
95 4-Chlorotoluene	91		13.416				ND	
96 tert-Butylbenzene	119		13.555				ND	
97 1,2,4-Trimethylbenzene	105		13.625				ND	
98 sec-Butylbenzene	105		13.723				ND	
99 4-Isopropyltoluene	119		13.849				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	405713	50.0	
103 n-Butylbenzene	134		14.268				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.287				ND	
110 Naphthalene	128		16.307				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.502				ND	

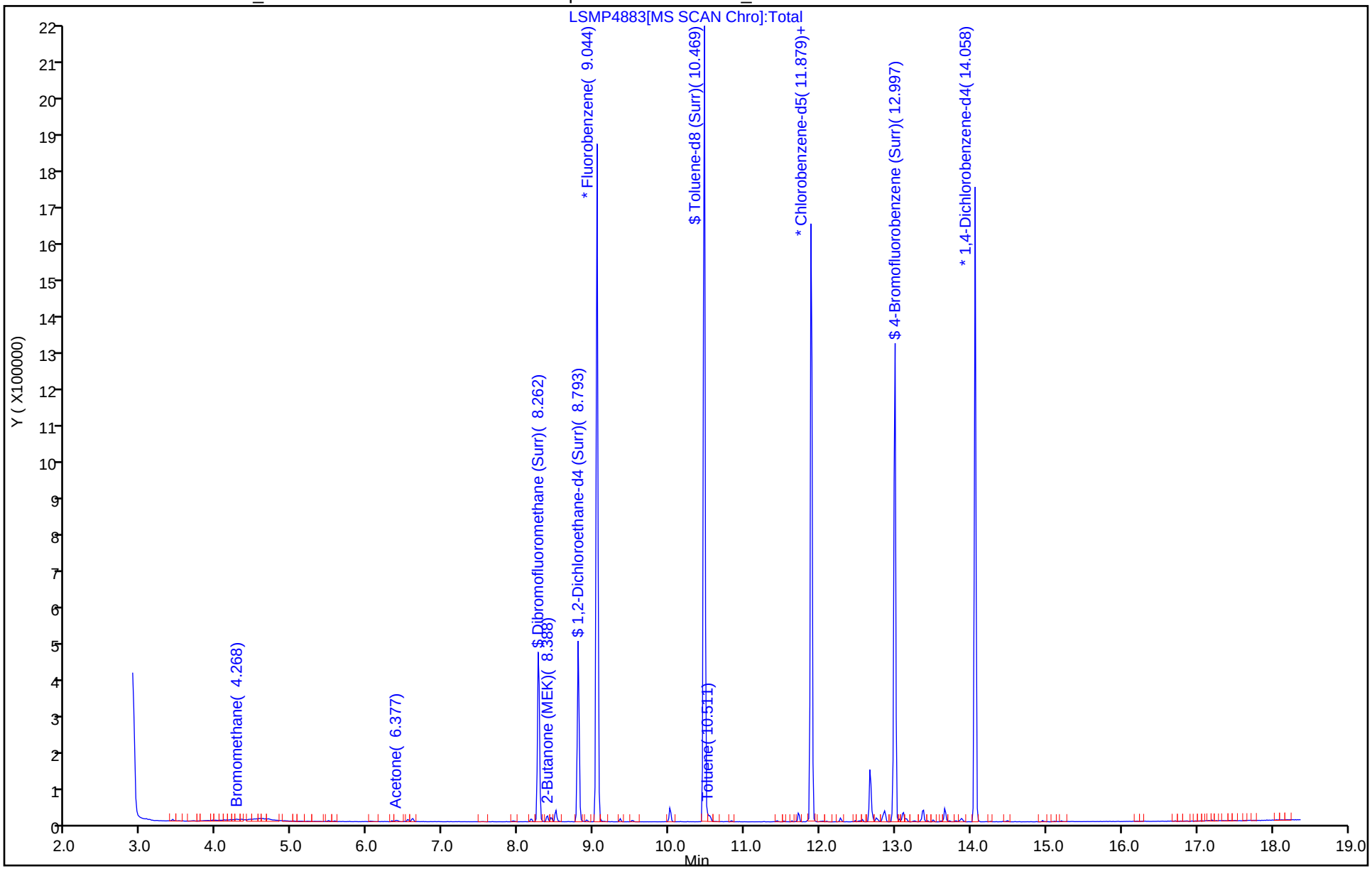
Reagents:

I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:40 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4883.D				
Injection Date:	17-Jun-2019 17:26:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	490-175605-A-8	Lab Sample ID:	160-175605-8	Worklist Smp#:	18
Client ID:	TB				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4883.D
Lims ID: 490-175605-A-8
Client ID: TB
Sample Type: Client
Inject. Date: 17-Jun-2019 17:26:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-018
Misc. Info.: 490-175605-a-8
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 18-Jun-2019 15:56:52

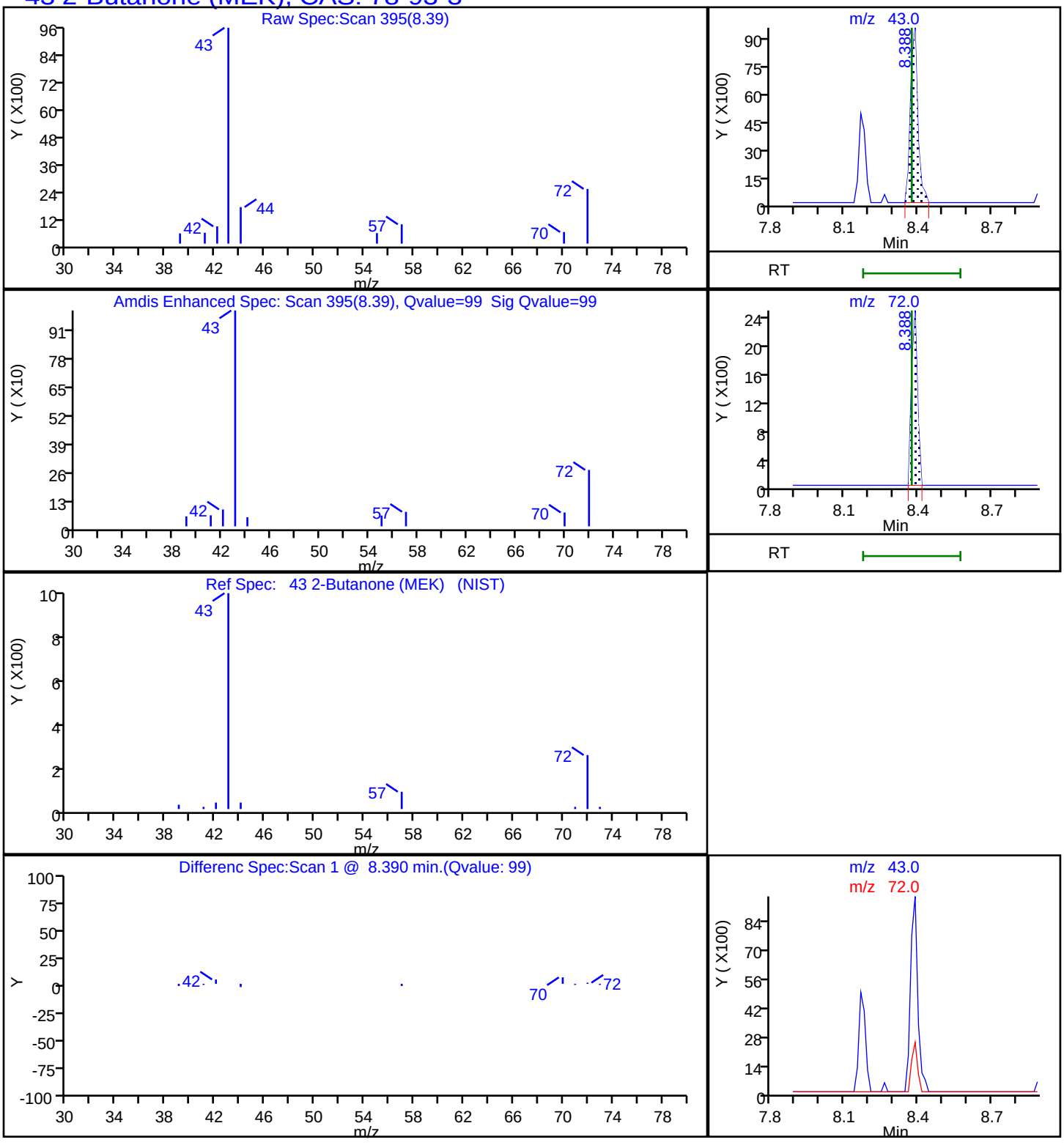
Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.9	99.86
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.5	103.01
$ 62 Toluene-d8 (Surr)	50.0	52.4	104.75
$ 86 4-Bromofluorobenzene (Surr)	50.0	55.0	109.91

Report Date: 20-Jun-2019 11:43:40 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4883.D				
Injection Date:	17-Jun-2019 17:26:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-8	Lab Sample ID:	160-175605-8		
Client ID:	TB				
Operator ID:	KA	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3

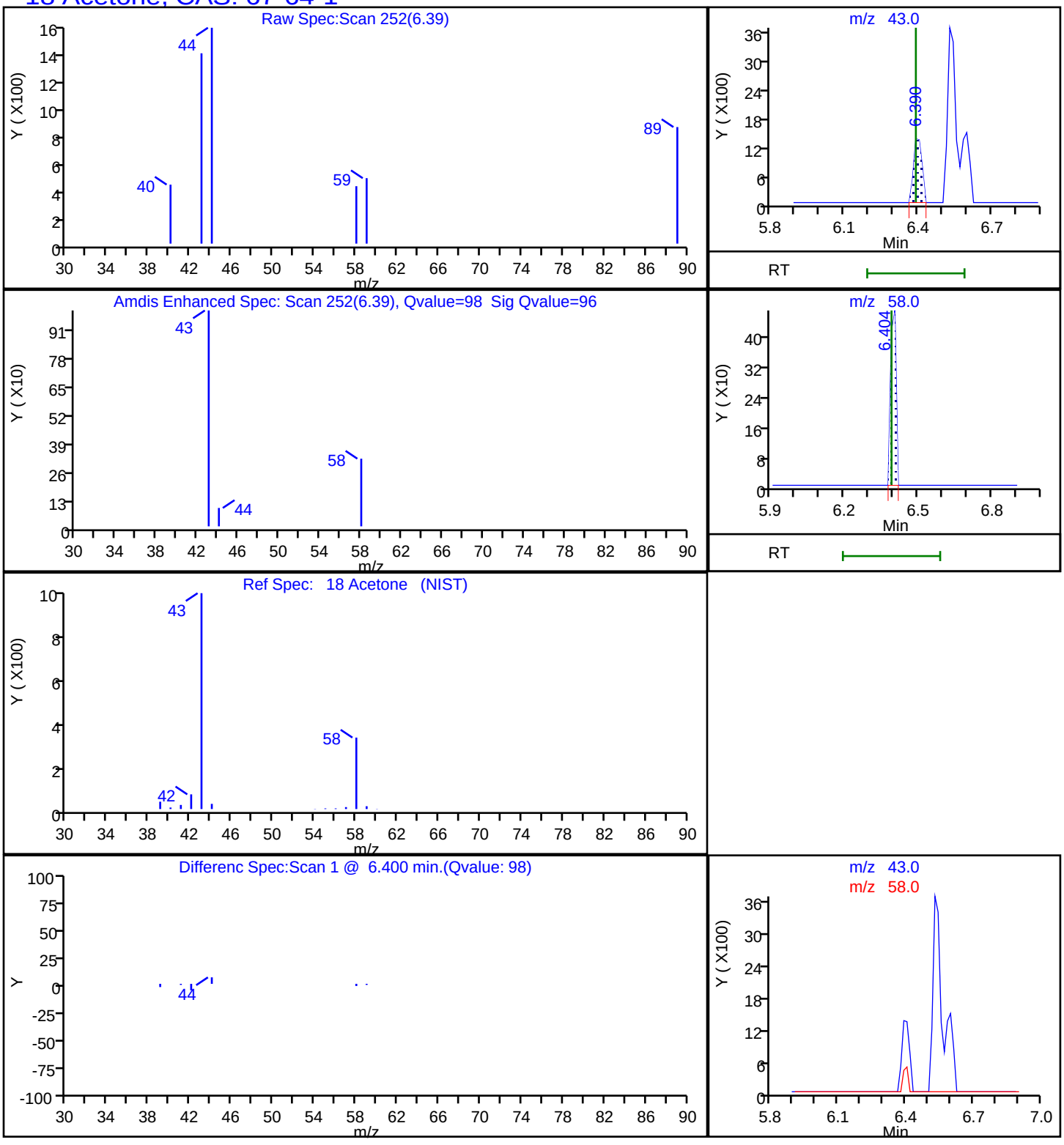


Report Date: 20-Jun-2019 11:43:40 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4883.D				
Injection Date:	17-Jun-2019 17:26:30	Instrument ID:	VMSL		
Lims ID:	490-175605-A-8	Lab Sample ID:	160-175605-8		
Client ID:	TB				
Operator ID:	KA	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2011D Lab Sample ID: 490-175605-9

Matrix: Water Lab File ID: LSMP4884.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 12:40

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 17:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	2.5	U	5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	18	J	20	5.0	2.4
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	4.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	4.6
67-64-1	Acetone	10	J	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.81
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.72
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.77
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	1.0
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.59
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.77
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	2.2	J	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2011D Lab Sample ID: 490-175605-9

Matrix: Water Lab File ID: LSMP4884.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 12:40

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 17:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.97
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.6
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.6
75-01-4	Vinyl chloride	1.5	J	5.0	2.0	1.0
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		81-118
460-00-4	4-Bromofluorobenzene (Surr)	111		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	107		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4884.D
Lims ID: 490-175605-B-9
Client ID: 6MW2011D
Sample Type: Client
Inject. Date: 17-Jun-2019 17:51:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-019
Misc. Info.: 490-175605-b-9
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 18-Jun-2019 15:57:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.150				ND	
3 Chloromethane	50		3.500				ND	
4 Vinyl chloride	62	3.667	3.667	0.000	95	15002	1.46	
5 Bromomethane	94	4.254	4.268	-0.014	77	1681	0.3768	
6 Chloroethane	64		4.477				ND	
7 Trichlorofluoromethane	101		4.715				ND	
9 1,1-Dichloroethene	96		5.525				ND	
10 Carbon disulfide	76		5.567				ND	
17 Methylene Chloride	84		6.321				ND	
18 Acetone	43	6.405	6.391	0.014	99	9643	10.1	
19 trans-1,2-Dichloroethene	96	6.530	6.516	0.014	1	1378	0.1888	
22 Methyl tert-butyl ether	73		6.642				ND	
28 1,1-Dichloroethane	63		7.243				ND	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	15461	2.19	
33 2,2-Dichloropropane	77		7.927				ND	
35 Chlorobromomethane	128		8.025				ND	
36 Chloroform	83		8.081				ND	
37 Carbon tetrachloride	117		8.234				ND	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	265692	50.5	
40 1,1,1-Trichloroethane	97		8.304				ND	
43 2-Butanone (MEK)	43	8.388	8.374	0.014	99	26142	18.5	
42 1,1-Dichloropropene	75		8.416				ND	
44 Benzene	78		8.653				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	319694	52.0	
49 1,2-Dichloroethane	62		8.849				ND	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1408908	50.0	
53 Trichloroethene	95		9.198				ND	
55 Dibromomethane	93		9.603				ND	
56 1,2-Dichloropropane	63		9.687				ND	
57 Dichlorobromomethane	83		9.729				ND	
61 cis-1,3-Dichloropropene	75		10.287				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	94	1308951	53.3	
63 Toluene	92	10.511	10.511	0.000	97	7379	0.4051	
66 4-Methyl-2-pentanone (MIBK	43		10.818				ND	
65 Tetrachloroethene	164		10.860				ND	
67 trans-1,3-Dichloropropene	75		10.874				ND	
68 1,1,2-Trichloroethane	83		11.027				ND	
70 Chlorodibromomethane	129		11.209				ND	
71 1,3-Dichloropropane	76		11.279				ND	
72 Ethylene Dibromide	107		11.446				ND	
74 2-Hexanone	43		11.558				ND	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	90	846216	50.0	
78 Ethylbenzene	91		11.879				ND	
77 Chlorobenzene	112		11.893				ND	
79 1,1,1,2-Tetrachloroethane	131		11.935				ND	
80 m-Xylene & p-Xylene	106		12.005				ND	
82 o-Xylene	106		12.410				ND	
83 Styrene	104		12.466				ND	
84 Bromoform	173		12.536				ND	
85 Isopropylbenzene	105		12.689				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.014	91	443073	55.6	
88 N-Propylbenzene	91		13.080				ND	
87 Bromobenzene	156		13.108				ND	
89 1,1,2,2-Tetrachloroethane	83		13.136				ND	
91 1,3,5-Trimethylbenzene	105		13.234				ND	
90 2-Chlorotoluene	91		13.262				ND	
92 1,2,3-Trichloropropane	110		13.304				ND	
95 4-Chlorotoluene	91		13.416				ND	
96 tert-Butylbenzene	119		13.555				ND	
97 1,2,4-Trimethylbenzene	105		13.625				ND	
98 sec-Butylbenzene	105		13.723				ND	
99 4-Isopropyltoluene	119		13.849				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	393121	50.0	
103 n-Butylbenzene	134		14.268				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.287				ND	
110 Naphthalene	128		16.307				ND	
S 112 Xylenes, Total	106		16.500				ND	
111 1,2,3-Trichlorobenzene	180		16.502				ND	

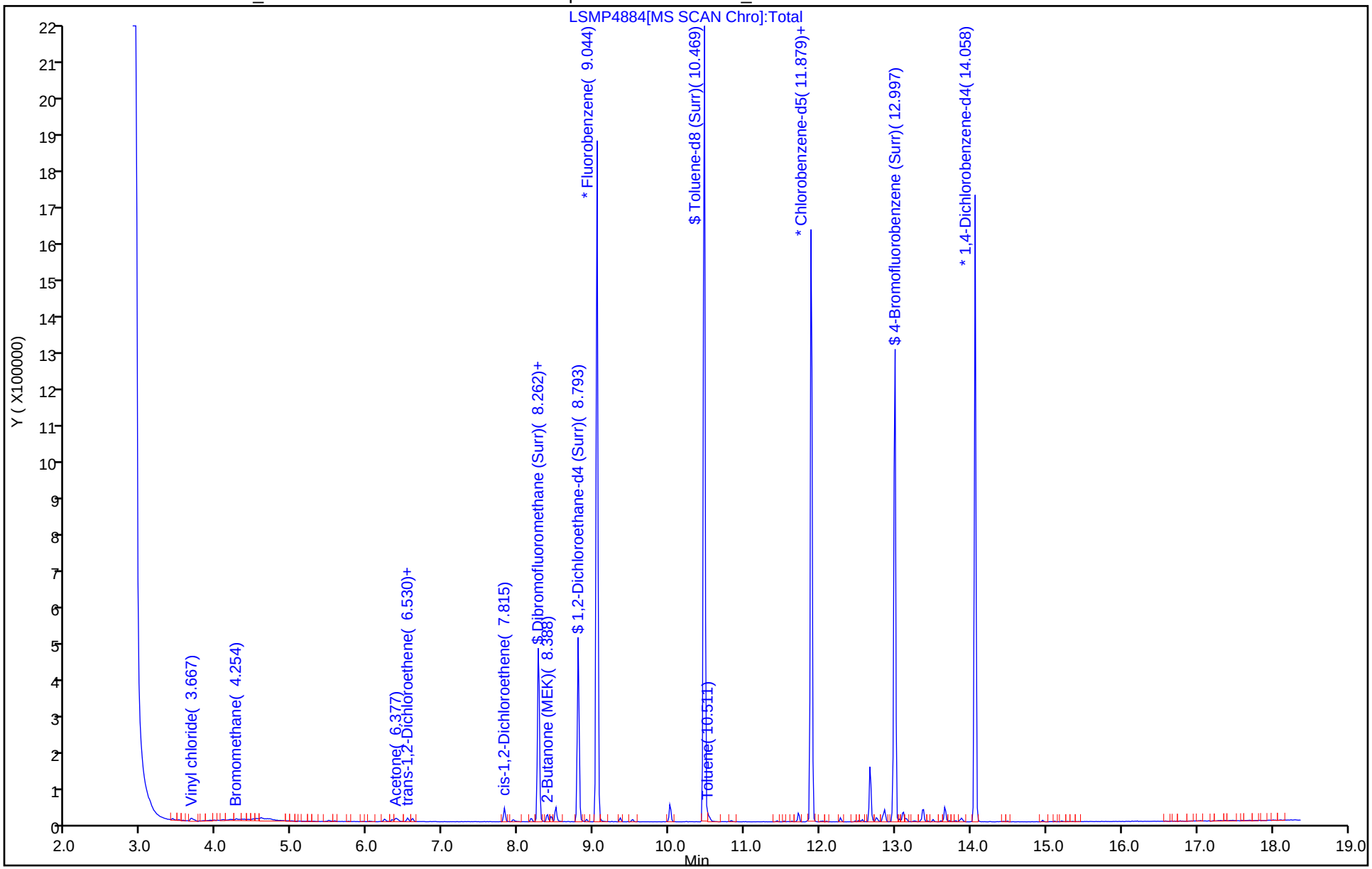
Reagents:

I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:41 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4884.D				
Injection Date:	17-Jun-2019 17:51:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	490-175605-B-9	Lab Sample ID:	160-175605-9	Worklist Smp#:	19
Client ID:	6MW2011D				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4884.D
Lims ID: 490-175605-B-9
Client ID: 6MW2011D
Sample Type: Client
Inject. Date: 17-Jun-2019 17:51:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-019
Misc. Info.: 490-175605-b-9
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:14 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 18-Jun-2019 15:57:39

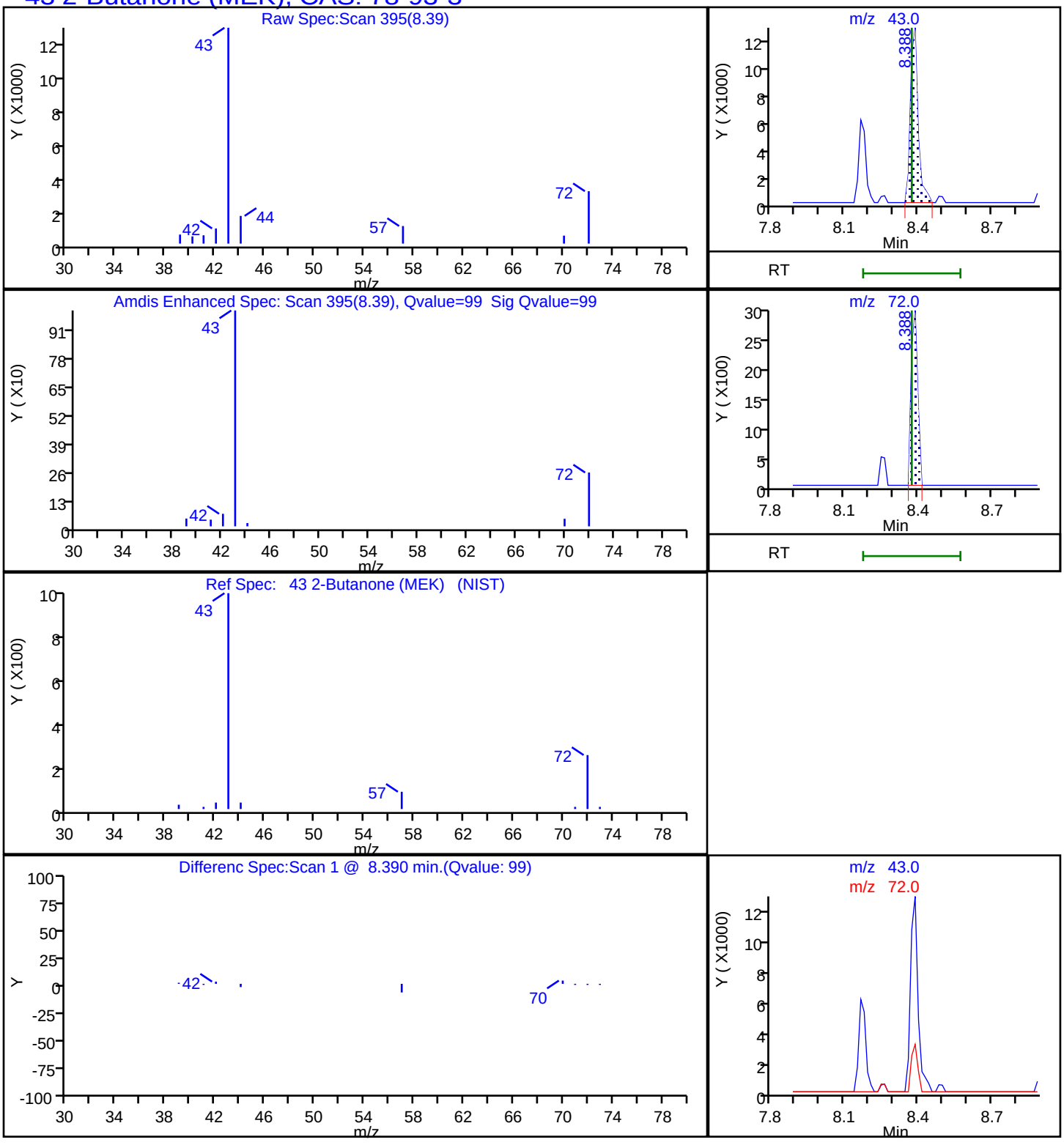
Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.5	100.98
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	52.0	103.91
$ 62 Toluene-d8 (Surr)	50.0	53.3	106.52
$ 86 4-Bromofluorobenzene (Surr)	50.0	55.6	111.19

Report Date: 20-Jun-2019 11:43:41 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4884.D				
Injection Date:	17-Jun-2019 17:51:30	Instrument ID:	VMSL		
Lims ID:	490-175605-B-9	Lab Sample ID:	160-175605-9		
Client ID:	6MW2011D				
Operator ID:	KA	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3

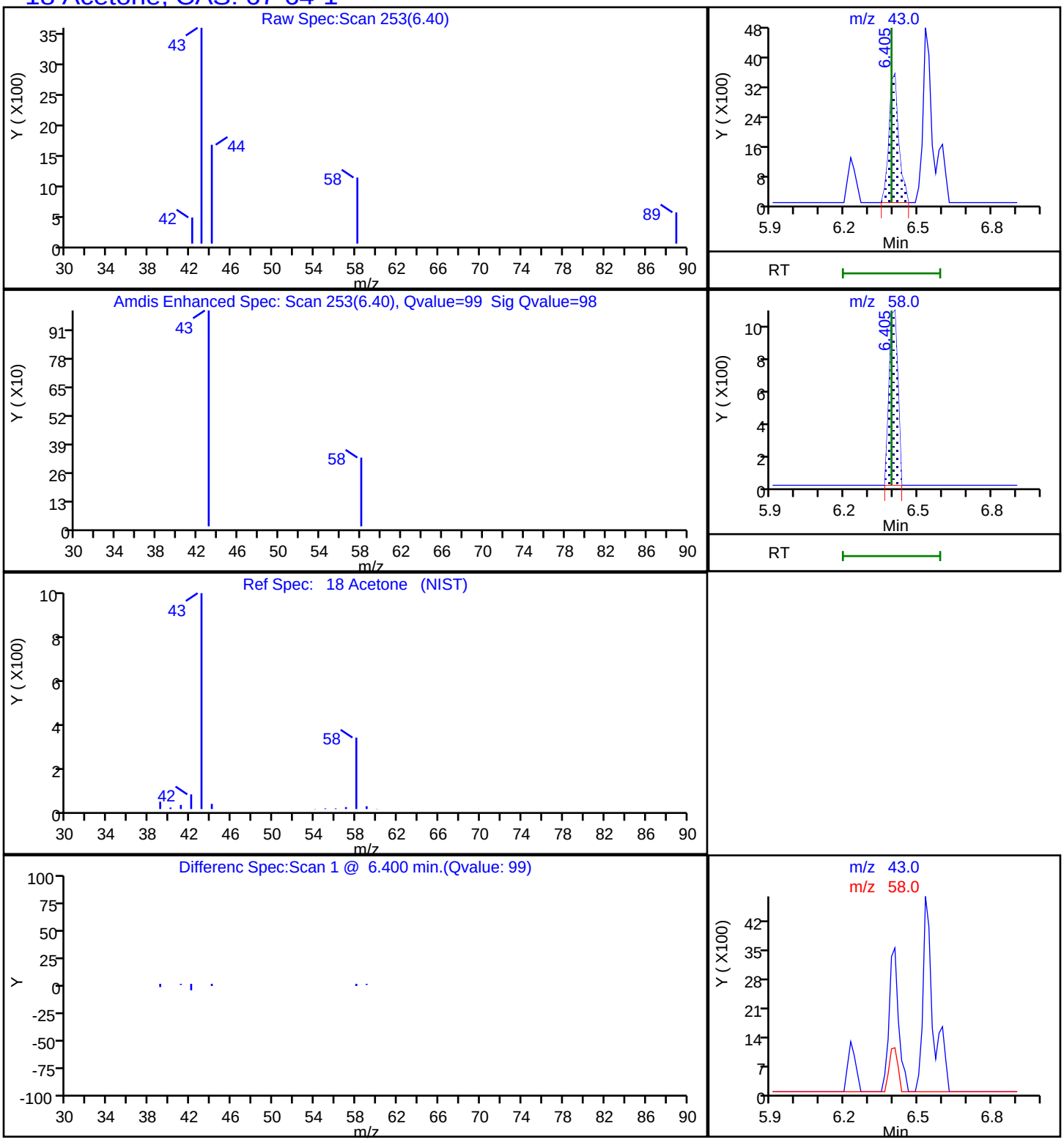


Report Date: 20-Jun-2019 11:43:41 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4884.D				
Injection Date:	17-Jun-2019 17:51:30	Instrument ID:	VMSL		
Lims ID:	490-175605-B-9	Lab Sample ID:	160-175605-9		
Client ID:	6MW2011D				
Operator ID:	KA	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



Report Date: 20-Jun-2019 11:43:41 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4884.D

Injection Date: 17-Jun-2019 17:51:30 Instrument ID: VMSL

Lims ID: 490-175605-B-9 Lab Sample ID: 160-175605-9

Client ID: 6MW2011D

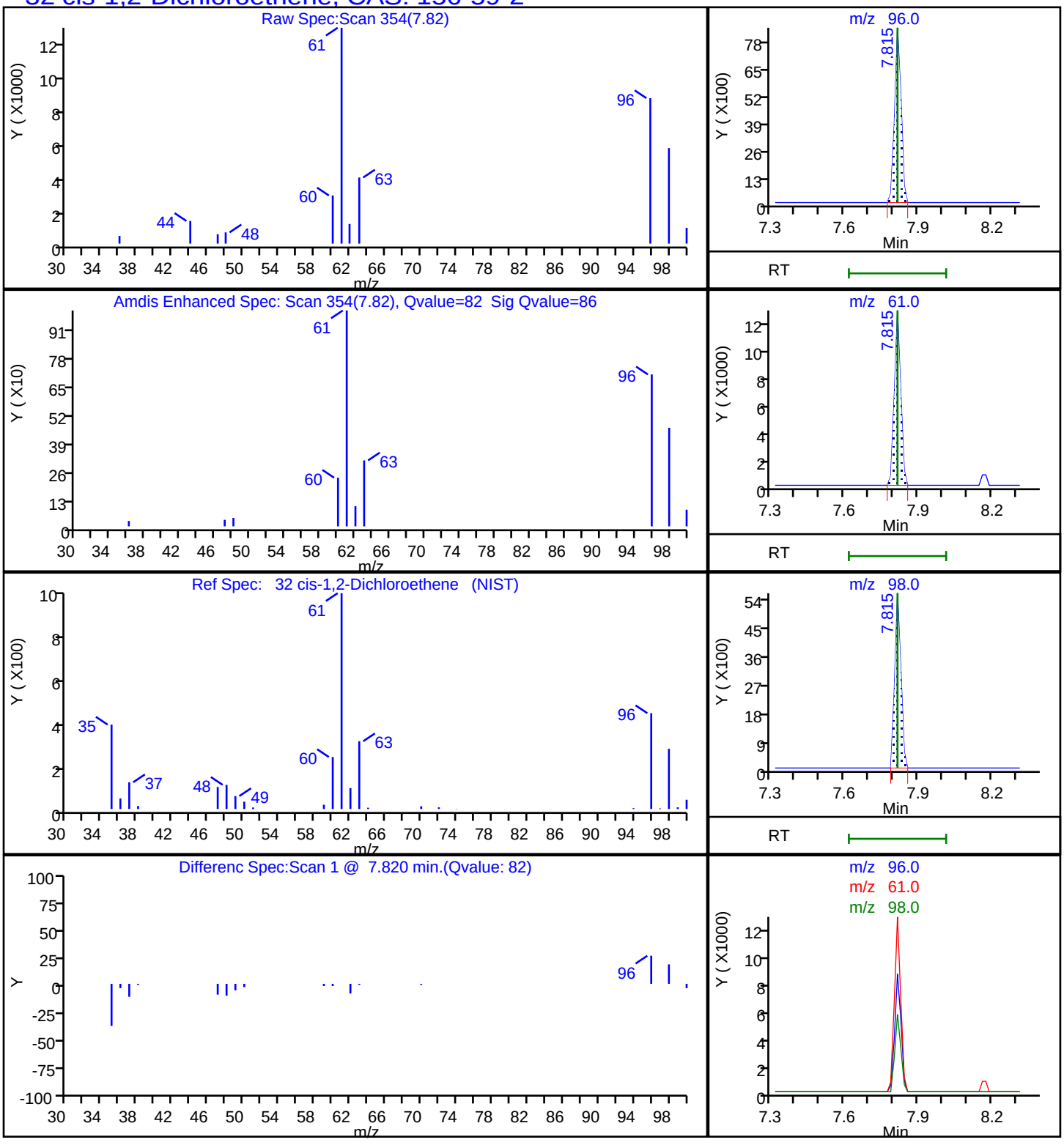
Operator ID: KA ALS Bottle#: 18 Worklist Smp#: 19

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD

Column: Detector MS SCAN

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



Report Date: 20-Jun-2019 11:43:41 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4884.D

Injection Date: 17-Jun-2019 17:51:30 Instrument ID: VMSL

Lims ID: 490-175605-B-9 Lab Sample ID: 160-175605-9

Client ID: 6MW2011D

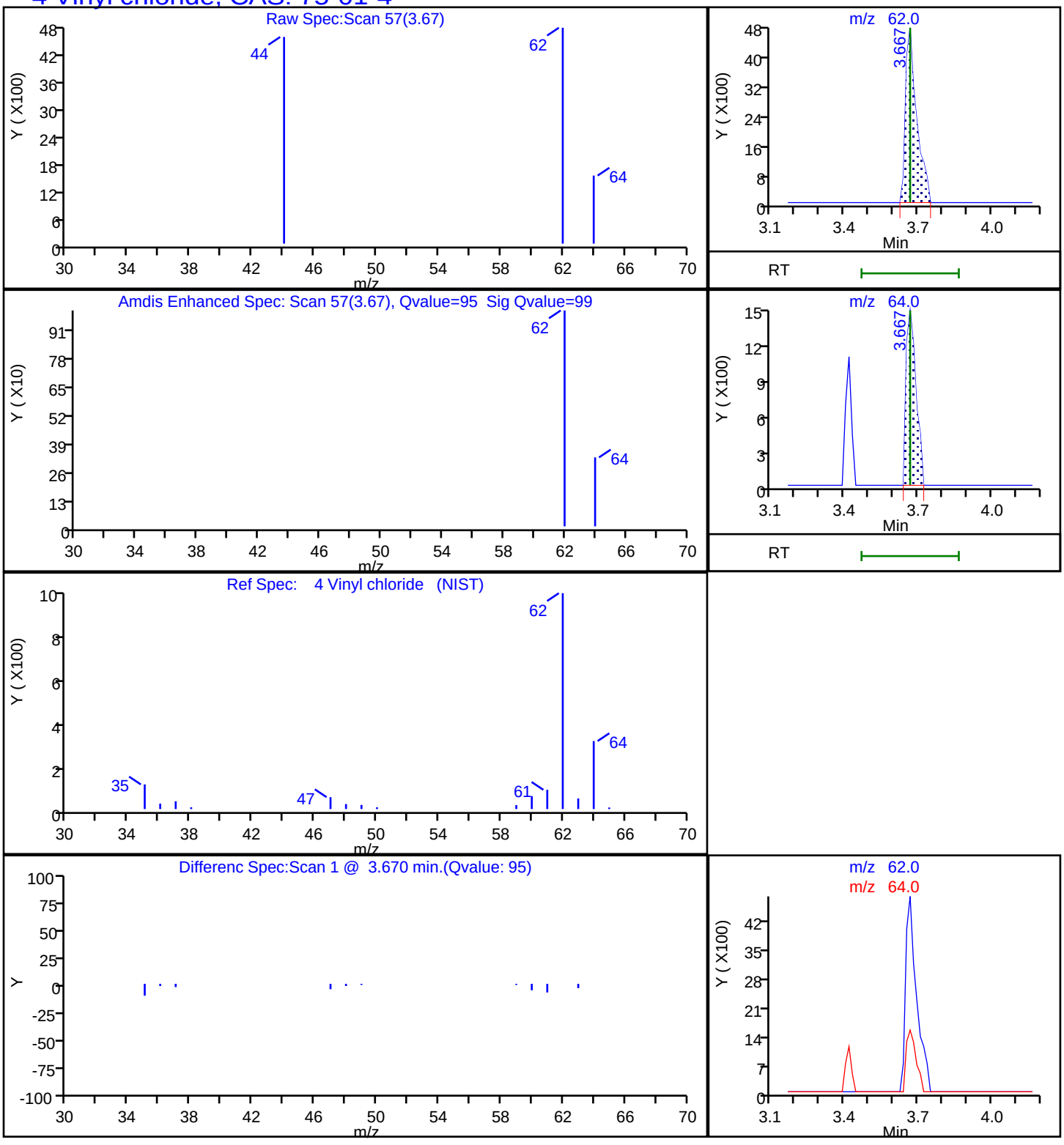
Operator ID: KA ALS Bottle#: 18 Worklist Smp#: 19

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD

Column: Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-429557/4	LICL4770.D
Level 2	IC 160-429557/5	LICL4771.D
Level 3	IC 160-429557/6	LICL4772.D
Level 4	IC 160-429557/7	LICL4773.D
Level 5	IC 160-429557/8	LICL4774.D
Level 6	ICIS 160-429557/9	LICL4775.D
Level 7	IC 160-429557/10	LICL4776.D
Level 8	IC 160-429557/11	LICL4777.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 0.3887	+++++ 0.2837	0.4437 0.2821	0.3997	0.4011	QuaF		0.3451	-0.000328		0.1000				0.9910		0.9900
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 0.1468	+++++ 0.1247	0.1535 0.1231	0.1476	0.1497	Ave		0.1409			0.0100	9.5		15.0			
Chloromethane	+++++ 0.3950	+++++ 0.3428	0.4757 0.3419	0.4183	0.4138	Ave		0.3979			0.1000	12.8		15.0			
Vinyl chloride	+++++ 0.3715	+++++ 0.3300	0.4148 0.3255	0.3697	0.3761	Ave		0.3646			0.1000	9.1		15.0			
Butadiene	+++++ 0.3497	+++++ 0.3014	0.3883 0.2796	0.3540	0.3550	Ave		0.3380			0.0100	11.8		15.0			
Bromomethane	+++++ 0.1521	+++++ 0.1357	0.1973 0.1366	0.1647	0.1634	Ave		0.1583			0.1000	14.4		15.0			
Chloroethane	+++++ 0.1919	+++++ 0.1707	0.2351 0.1853	0.2118	0.2146	Ave		0.2015			0.1000	11.5		15.0			
Trichlorofluoromethane	+++++ 0.4334	+++++ 0.4015	0.5072 0.3949	0.4492	0.4478	Ave		0.4390			0.1000	9.2		15.0			
Dichlorofluoromethane	+++++ 0.4877	+++++ 0.4728	0.5622 0.4650	0.4994	0.5034	Ave		0.4984			0.0100	6.9		15.0			
Ethyl ether	+++++ 0.1089	+++++ 0.1108	0.1122 0.1131	0.1033	0.1065	Ave		0.1091			0.0100	3.4		15.0			
Ethanol	+++++ 0.0011	+++++ 0.0011	0.0012 0.0013	0.0012	0.0012	Ave		0.0012		*	0.0100	4.6		15.0			
1,1-Dichloroethene	+++++ 0.2302	+++++ 0.2187	0.2399 0.2225	0.2224	0.2282	Ave		0.2270			0.1000	3.3		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.1877	+++++ 0.1775	0.2131 0.1736	0.1884	0.1916	Ave		0.1886			0.1000	7.3		15.0			
Carbon disulfide	+++++ 0.9205	+++++ 0.8399	1.0064 0.8357	0.9162	0.9320	Ave		0.9085			0.1000	7.0		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	+++++ 0.1680	+++++ 0.1842	0.0759 0.1872	0.0813	0.1205	Lin1	-0.825	0.1891			0.0100				0.9960		0.9900
Acrolein	+++++ 0.0098	+++++ 0.0102	0.0091 0.0110	0.0083	0.0096	Ave		0.0097			0.0010	9.3		15.0			
3-Chloro-1-propene	+++++ 0.3040	+++++ 0.2968	0.3111 0.2931	0.2821	0.2976	Ave		0.2974			0.0100	3.3		15.0			
Isopropyl alcohol	+++++ 0.0070	+++++ 0.0073	0.0070 0.0078	0.0066	0.0069	Ave		0.0071		*	0.0100	6.0		15.0			
Methylene Chloride	+++++ 0.2248	+++++ 0.2179	0.2528 0.2167	0.2253	0.2271	Ave		0.2274			0.1000	5.8		15.0			
Acetone	+++++ 0.0320	+++++ 0.0312	0.0398 0.0329	0.0343	0.0338	Ave		0.0340		*	0.1000	9.0		15.0			
Methyl acetate	+++++ 0.0071	+++++ 0.0073	0.0072 0.0075	0.0070	0.0070	Ave		0.0072		*	0.1000	2.7		15.0			
trans-1,2-Dichloroethene	+++++ 0.2560	+++++ 0.2521	0.2781 0.2512	0.2547	0.2618	Ave		0.2590			0.1000	3.9		15.0			
Hexane	+++++ 0.0950	+++++ 0.0886	0.0896 0.0888	0.0863	0.0931	Ave		0.0902			0.0100	3.5		15.0			
Methyl tert-butyl ether	+++++ 0.4761	+++++ 0.4872	0.4841 0.5096	0.4462	0.4742	Ave		0.4796			0.1000	4.3		15.0			
2-Methyl-2-propanol	+++++ 0.0114	+++++ 0.0121	0.0106 0.0133	0.0106	0.0110	Ave		0.0115			0.0100	9.0		15.0			
Acetonitrile	+++++ 0.0121	+++++ 0.0119	0.0138 0.0127	0.0120	0.0122	Ave		0.0124			0.0010	5.8		15.0			
Isopropyl ether	+++++ 0.7464	+++++ 0.7685	0.7082 0.7718	0.6513	0.7174	Ave		0.7272			0.0100	6.2		15.0			
2-Chloro-1,3-butadiene	+++++ 0.4579	+++++ 0.4663	0.4112 0.4707	0.3913	0.4345	Ave		0.4387			0.0100	7.3		15.0			
1,1-Dichloroethane	+++++ 0.5030	+++++ 0.4929	0.5536 0.4909	0.4982	0.5144	Ave		0.5089			0.2000	4.6		15.0			
Acrylonitrile	+++++ 0.0413	+++++ 0.0411	0.0448 0.0428	0.0405	0.0416	Ave		0.0420			0.0100	3.7		15.0			
Tert-butyl ethyl ether	+++++ 0.6475	+++++ 0.6668	0.6157 0.6848	0.5736	0.6208	Ave		0.6349			0.0100	6.3		15.0			
Vinyl acetate	+++++ 0.3230	+++++ 0.3217	0.3216 0.3379	0.2974	0.3170	Ave		0.3198			0.0100	4.1		15.0			
cis-1,2-Dichloroethene	+++++ 0.2482	+++++ 0.2485	0.2682 0.2507	0.2378	0.2496	Ave		0.2505			0.1000	3.9		15.0			
2,2-Dichloropropane	+++++ 0.4231	+++++ 0.4183	0.4565 0.4214	0.4130	0.4230	Ave		0.4259			0.0100	3.6		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Bromochloromethane	+++++ 0.0781	+++++ 0.0751	0.0881 0.0747	0.0781	0.0786	Ave		0.0788			0.0100	6.2		15.0			
Cyclohexane	+++++ 0.4904	+++++ 0.4694	0.4676 0.4692	0.4451	0.4780	Ave		0.4699			0.1000	3.2		15.0			
Chloroform	+++++ 0.4259	+++++ 0.4256	0.4730 0.4246	0.4303	0.4337	Ave		0.4355			0.2000	4.3		15.0			
Ethyl acetate	+++++ 0.0163	+++++ 0.0167	0.0180 0.0180	0.0159	0.0164	Ave		0.0169			0.0100	5.3		15.0			
Carbon tetrachloride	+++++ 0.3422	+++++ 0.3360	0.3675 0.3349	0.3337	0.3413	Ave		0.3426			0.1000	3.7		15.0			
Tetrahydrofuran	+++++ 0.0127	+++++ 0.0132	0.0114 0.0143	0.0110	0.0120	Ave		0.0124			0.0010	9.8		15.0			
1,1,1-Trichloroethane	+++++ 0.4130	+++++ 0.4131	0.4478 0.4109	0.4098	0.4161	Ave		0.4184			0.1000	3.5		15.0			
2-Butanone (MEK)	+++++ 0.0484	+++++ 0.0490	0.0544 0.0508	0.0507	0.0481	Ave		0.0502		*	0.1000	4.7		15.0			
1,1-Dichloropropene	+++++ 0.4079	+++++ 0.4076	0.4054 0.4100	0.3740	0.4033	Ave		0.4014			0.0100	3.4		15.0			
Isooctane	+++++ 1.3631	+++++ 1.3180	1.2996 1.3004	1.2520	1.3410	Ave		1.3124			0.0100	2.9		15.0			
n-Heptane	+++++ 0.5784	+++++ 0.5524	0.5471 0.5450	0.5300	0.5759	Ave		0.5548			0.0100	3.4		15.0			
Benzene	+++++ 1.1040	+++++ 1.0842	1.2392 1.0747	1.0975	1.1242	Ave		1.1206			0.5000	5.4		15.0			
Propionitrile	+++++ 0.0166	+++++ 0.0164	0.0185 0.0168	0.0166	0.0164	Ave		0.0169			0.0010	4.8		15.0			
Methacrylonitrile	+++++ 0.0815	+++++ 0.0799	0.0868 0.0792	0.0818	0.0826	Ave		0.0820			0.0100	3.3		15.0			
Tert-amyl methyl ether	+++++ 0.5363	+++++ 0.5510	0.5405 0.5648	0.4949	0.5313	Ave		0.5365			0.0100	4.4		15.0			
Isobutyl alcohol	+++++ 0.0031	+++++ 0.0034	0.0032 0.0037	0.0029	0.0028	Ave		0.0032			0.0010	9.8		15.0			
1,2-Dichloroethane	+++++ 0.2515	+++++ 0.2482	0.2852 0.2514	0.2511	0.2578	Ave		0.2575			0.1000	5.4		15.0			
Methylcyclohexane	+++++ 0.4782	+++++ 0.4611	0.4972 0.4524	0.4544	0.4818	Ave		0.4708			0.1000	3.8		15.0			
Trichloroethene	+++++ 0.2760	+++++ 0.2721	0.3081 0.2675	0.2796	0.2792	Ave		0.2804			0.2000	5.1		15.0			
n-Butanol	+++++ 0.0032	+++++ 0.0036	0.0029 0.0040	0.0026	0.0030	Lin1	-0.240	0.0038		*	0.0100				0.9930		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibromomethane	+++++ 0.0893	+++++ 0.0894	0.0990 0.0918	0.0867	0.0906	Ave		0.0911			0.0100	4.6		15.0			
Ethyl acrylate	+++++ 0.1501	+++++ 0.1623	0.1260 0.1805	0.1218	0.1379	Lin1	-0.431	0.1741			0.0100				0.9950		0.9900
1,2-Dichloropropane	+++++ 0.2508	+++++ 0.2515	0.2666 0.2546	0.2388	0.2470	Ave		0.2515			0.1000	3.6		15.0			
Bromodichloromethane	+++++ 0.2769	+++++ 0.2806	0.2788 0.2875	0.2589	0.2716	Ave		0.2757			0.2000	3.5		15.0			
Methyl methacrylate	+++++ 0.0902	+++++ 0.0977	0.0728 0.1055	0.0725	0.0824	Lin1	-0.500	0.1029			0.0100				0.9970		0.9900
1,4-Dioxane	+++++ 0.0011	+++++ 0.0012	0.0008 0.0012	0.0008	0.0011	Lin1	-0.056	0.0012			0.0010				0.9990		0.9900
2-Chloroethyl vinyl ether	+++++ 0.0859	+++++ 0.0936	0.0728 0.1026	0.0635	0.0739	Lin1	-0.271	0.0994			0.0100				0.9950		0.9900
cis-1,3-Dichloropropene	+++++ 0.3454	+++++ 0.3561	0.3243 0.3653	0.3042	0.3284	Ave		0.3373			0.2000	6.7		15.0			
Toluene	+++++ 1.0759	+++++ 1.0962	1.0838 1.1086	1.0161	1.0772	Ave		1.0763			0.4000	3.0		15.0			
2-Nitropropane	+++++ 0.0489	+++++ 0.0566	0.0406 0.0656	0.0415	0.0447	Qua	-0.149	0.0474	0.0000467		0.0100				1.0000		0.9900
4-Methyl-2-pentanone (MIBK)	+++++ 0.1736	+++++ 0.1902	0.1539 0.2126	0.1502	0.1652	Ave		0.1743			0.1000	13.6		15.0			
Tetrachloroethene	+++++ 0.3491	+++++ 0.3515	0.3761 0.3479	0.3417	0.3506	Ave		0.3528			0.2000	3.4		15.0			
trans-1,3-Dichloropropene	+++++ 0.4608	+++++ 0.4767	0.4187 0.4956	0.3994	0.4421	Ave		0.4489			0.1000	8.0		15.0			
Ethyl methacrylate	+++++ 0.2903	+++++ 0.3273	0.2070 0.3685	0.2143	0.2472	Lin1	-1.224	0.3543			0.0100				0.9930		0.9900
1,1,2-Trichloroethane	+++++ 0.1896	+++++ 0.1935	0.2066 0.2049	0.1886	0.1926	Ave		0.1960			0.1000	4.0		15.0			
Dibromochloromethane	+++++ 0.2172	+++++ 0.2274	0.2087 0.2415	0.1968	0.2069	Ave		0.2164			0.1000	7.4		15.0			
1,3-Dichloropropane	+++++ 0.4282	+++++ 0.4407	0.4584 0.4661	0.4062	0.4237	Ave		0.4372			0.0100	5.1		15.0			
n-Butyl acetate	+++++ 0.3016	+++++ 0.3386	0.2507 0.3771	0.2427	0.2715	Lin1	-1.022	0.3626			0.0100				0.9930		0.9900
1,2-Dibromoethane	+++++ 0.1920	+++++ 0.1978	0.1936 0.2092	0.1808	0.1881	Ave		0.1936			0.1000	4.9		15.0			
2-Hexanone	+++++ 0.1132	+++++ 0.1245	0.0978 0.1422	0.0909	0.1059	Lin1	-0.363	0.1357			0.1000				0.9930		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1-Chlorohexane	+++++ 0.6846	+++++ 0.7154	0.5713 0.7347	0.5676	0.6376	Ave		0.6519			0.0100	11.0		15.0			
Ethylbenzene	+++++ 2.0830	+++++ 2.1150	2.2289 2.0978	2.0185	2.0835	Ave		2.1045			0.1000	3.3		15.0			
Chlorobenzene	+++++ 1.0050	+++++ 0.9992	1.1282 0.9874	1.0131	1.0167	Ave		1.0249			0.5000	5.0		15.0			
1,1,1,2-Tetrachloroethane	+++++ 0.2924	+++++ 0.2968	0.3026 0.3049	0.2843	0.2915	Ave		0.2954			0.0100	2.6		15.0			
m,p-Xylenes	+++++ 0.7680	+++++ 0.7911	0.7268 0.8010	0.7003	0.7516	Ave		0.7565			0.1000	5.1		15.0			
o-Xylene	+++++ 0.6824	+++++ 0.7062	0.5955 0.7240	0.5903	0.6596	Ave		0.6597			0.3000	8.5		15.0			
Styrene	+++++ 1.0342	+++++ 1.0856	0.8605 1.1257	0.8363	0.9454	Ave		0.9813			0.3000	12.2		15.0			
Bromoform	+++++ 0.2779	+++++ 0.3007	0.2442 0.3365	0.2446	0.2614	Ave		0.2775			0.1000	13.0		15.0			
Isopropylbenzene	+++++ 4.1089	+++++ 4.2740	3.8074 4.3540	3.6739	4.0118	Ave		4.0383			0.1000	6.5		15.0			
N-Propylbenzene	+++++ 5.2830	+++++ 5.4309	4.8479 5.4530	4.7432	5.1243	Ave		5.1471			0.0100	5.8		15.0			
Bromobenzene	+++++ 0.7749	+++++ 0.7932	0.8369 0.8157	0.7564	0.7766	Ave		0.7923			0.0100	3.7		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.5074	+++++ 0.5122	0.5471 0.5569	0.4971	0.4986	Ave		0.5199			0.3000	4.9		15.0			
1,3,5-Trimethylbenzene	+++++ 3.3191	+++++ 3.4353	2.9331 3.5022	2.9186	3.1991	Ave		3.2179			0.0100	7.7		15.0			
2-Chlorotoluene	+++++ 3.2867	+++++ 3.3678	3.4467 3.4577	3.1968	3.2910	Ave		3.3411			0.0100	3.0		15.0			
1,2,3-Trichloropropane	+++++ 0.1465	+++++ 0.1460	0.1538 0.1572	0.1387	0.1432	Ave		0.1476			0.0100	4.6		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1641	+++++ 0.1725	0.1646 0.1888	0.1496	0.1589	Ave		0.1664			0.0100	8.0		15.0			
Cyclohexanone	+++++ 0.0117	+++++ 0.0140	0.0111 0.0160	0.0103	0.0108	Qua	-0.203	0.0117	0.0000022		0.0010				1.0000		0.9900
4-Chlorotoluene	+++++ 2.9634	+++++ 3.0359	2.8785 3.1635	2.7232	2.8922	Ave		2.9428			0.0100	5.1		15.0			
tert-Butylbenzene	+++++ 2.9276	+++++ 3.0016	2.6894 3.0307	2.5934	2.7953	Ave		2.8397			0.0100	6.2		15.0			
1,2,4-Trimethylbenzene	+++++ 3.2455	+++++ 3.3331	3.0311 3.4282	2.9757	3.1523	Ave		3.1943			0.0100	5.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	+++++ 4.6996	+++++ 4.7873	4.4352 4.8166	4.3142	4.5440	Ave		4.5995			0.0100	4.4		15.0			
p-Isopropyltoluene	+++++ 3.7377	+++++ 3.8202	3.4185 3.8658	3.3481	3.5772	Ave		3.6279			0.0100	5.9		15.0			
1,3-Dichlorobenzene	+++++ 1.5824	+++++ 1.6077	1.6960 1.6541	1.5349	1.5519	Ave		1.6045			0.6000	3.8		15.0			
1,2,3-Trimethylbenzene	+++++ 3.0721	+++++ 3.1593	3.1956 3.2351	2.9287	3.0209	Ave		3.1019			0.0100	3.7		15.0			
1,4-Dichlorobenzene	+++++ 1.5474	+++++ 1.5513	1.7712 1.5721	1.5670	1.5643	Ave		1.5955			0.5000	5.4		15.0			
n-Butylbenzene	+++++ 0.8703	+++++ 0.9018	0.8136 0.9070	0.7872	0.8366	Ave		0.8528			0.0100	5.7		15.0			
Benzyl chloride	+++++ 0.1782	+++++ 0.1897	0.1604 0.2132	0.1553	0.1666	Ave		0.1772			0.0100	12.2		15.0			
1,2-Dichlorobenzene	+++++ 1.3564	+++++ 1.3740	1.4760 1.4216	1.3240	1.3430	Ave		1.3825			0.4000	4.1		15.0			
n-Nonyl Aldehyde	+++++ 0.3240	+++++ 0.4234	0.1826 0.4556	0.2098	0.2605	Lin	-3.747	0.4685			0.0100				0.9970		0.9900
1,2-Dibromo-3-Chloropropane	+++++ 0.0771	+++++ 0.0831	0.0703 0.0922	0.0648	0.0741	Ave		0.0769			0.0500	12.6		15.0			
1,3,5-Trichlorobenzene	+++++ 1.2697	+++++ 1.2922	1.3390 1.3086	1.2259	1.2314	Ave		1.2778			0.0100	3.5		15.0			
Hexachlorobutadiene	+++++ 0.8420	+++++ 0.8612	0.8922 0.8823	0.8134	0.8268	Ave		0.8530			0.0100	3.6		15.0			
1,2,4-Trichlorobenzene	+++++ 0.9389	+++++ 0.9594	0.9422 1.0039	0.8856	0.8979	Ave		0.9380			0.2000	4.6		15.0			
Naphthalene	+++++ 1.0798	+++++ 1.1370	0.9479 1.2347	0.9144	0.9943	Ave		1.0514			0.0100	11.6		15.0			
1,2,3-Trichlorobenzene	+++++ 0.7566	+++++ 0.7743	0.7835 0.8006	0.7192	0.7387	Ave		0.7622			0.0100	3.9		15.0			
Dibromofluoromethane (Surr)	+++++ 0.1899	+++++ 0.1885	0.1898 0.1799	0.1836	0.1888	Ave		0.1868			0.0100	2.2		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.2192	+++++ 0.2132	0.2354 0.2054	0.2182	0.2188	Ave		0.2184			0.0100	4.5		15.0			
Toluene-d8 (Surr)	+++++ 1.5061	+++++ 1.5210	1.4137 1.4615	1.3639	1.4471	Ave		1.4522			0.0100	4.0		15.0			
4-Bromofluorobenzene (Surr)	+++++ 1.0556	+++++ 1.0834	0.9467 1.0868	0.9245	0.9848	Ave		1.0136			0.0100	7.0		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-429557/4	LICL4770.D
Level 2	IC 160-429557/5	LICL4771.D
Level 3	IC 160-429557/6	LICL4772.D
Level 4	IC 160-429557/7	LICL4773.D
Level 5	IC 160-429557/8	LICL4774.D
Level 6	ICIS 160-429557/9	LICL4775.D
Level 7	IC 160-429557/10	LICL4776.D
Level 8	IC 160-429557/11	LICL4777.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	QuaF	+++++ 602794	+++++ 906299	63850 1884690	117685	236184	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	FB	Ave	+++++ 227586	+++++ 398300	22096 822410	43443	88171	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chloromethane	FB	Ave	+++++ 612571	+++++ 1094951	68459 2284214	123140	243692	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Vinyl chloride	FB	Ave	+++++ 576103	+++++ 1054169	59685 2174435	108851	221476	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Butadiene	FB	Ave	+++++ 542292	+++++ 962675	55883 1867915	104232	209024	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromomethane	FB	Ave	+++++ 235889	+++++ 433533	28385 912881	48488	96207	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chloroethane	FB	Ave	+++++ 297522	+++++ 545294	33828 1238000	62341	126355	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	+++++ 671974	+++++ 1282348	72985 2638504	132238	263677	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	+++++ 756182	+++++ 1510360	80902 3106755	147031	296397	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl ether	FB	Ave	+++++ 168804	+++++ 353809	16146 755649	30417	62688	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethanol	FB	Ave	+++++ 68877	+++++ 146140	7012 337452	13643	27714	+++++ 2000	+++++ 4000	200 8000	400	800
1,1-Dichloroethene	FB	Ave	+++++ 356947	+++++ 698654	34526 1486809	65465	134349	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 291049	+++++ 566874	30659 1160075	55458	112827	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Carbon disulfide	FB	Ave	+++++ 1427402	+++++ 2682939	144827 5583401	269744	548804	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Iodomethane	FB	Lin1	+++++ 260505	+++++ 588313	10922 1250954	23932	70951	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Acrolein	FB	Ave	+++++ 76205	+++++ 162195	6544 366664	12291	28257	+++++ 250	+++++ 500	25.0 1000	50.0	100
3-Chloro-1-propene	FB	Ave	+++++ 471334	+++++ 947947	44770 1958506	83039	175226	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isopropyl alcohol	FB	Ave	+++++ 108042	+++++ 234585	10059 522931	19398	40628	+++++ 500	+++++ 1000	50.0 2000	100	200
Methylene Chloride	FB	Ave	+++++ 348633	+++++ 695858	36377 1448155	66319	133744	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Acetone	FB	Ave	+++++ 49607	+++++ 99673	5722 219659	10100	19931	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methyl acetate	FB	Ave	+++++ 55099	+++++ 116707	5198 250420	10272	20737	+++++ 250	+++++ 500	25.0 1000	50.0	100
trans-1,2-Dichloroethene	FB	Ave	+++++ 396956	+++++ 805225	40026 1678651	74998	154141	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Hexane	FB	Ave	+++++ 147274	+++++ 283109	12900 593001	25413	54809	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methyl tert-butyl ether	FB	Ave	+++++ 738289	+++++ 1556295	69660 3405013	131362	279215	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Methyl-2-propanol	FB	Ave	+++++ 177232	+++++ 386310	15252 885795	31260	64616	+++++ 500	+++++ 1000	50.0 2000	100	200
Acetonitrile	FB	Ave	+++++ 187299	+++++ 380644	19900 845984	35423	71659	+++++ 500	+++++ 1000	50.0 2000	100	200
Isopropyl ether	FB	Ave	+++++ 1157328	+++++ 2454617	101908 5156368	191746	422413	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 710080	+++++ 1489296	59173 3145149	115199	255863	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	+++++ 780047	+++++ 1574264	79664 3280153	146685	302919	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Acrylonitrile	FB	Ave	+++++ 639747	+++++ 1313152	64462 2862278	119229	244701	+++++ 500	+++++ 1000	50.0 2000	100	200
Tert-butyl ethyl ether	FB	Ave	+++++ 1004122	+++++ 2129916	88594 4575117	168863	365578	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Vinyl acetate	FB	Ave	+++++ 500925	+++++ 1027688	46273 2257405	87544	186664	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 384822	+++++ 793912	38592 1675197	70014	146962	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 656022	+++++ 1336170	65694 2815646	121577	249078	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromochloromethane	FB	Ave	+++++ 121064	+++++ 239878	12682 498874	23002	46304	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Cyclohexane	FB	Ave	+++++ 760503	+++++ 1499293	67286 3134751	131028	281452	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	FB	Ave	+++++ 660406	+++++ 1359549	68066 2836937	126669	255383	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl acetate	FB	Ave	+++++ 50458	+++++ 106839	5184 240278	9381	19334	+++++ 100	+++++ 200	10.0 400	20.0	40.0
Carbon tetrachloride	FB	Ave	+++++ 530606	+++++ 1073141	52885 2237894	98247	200998	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Tetrahydrofuran	FB	Ave	+++++ 39509	+++++ 84129	3284 191400	6488	14143	+++++ 100	+++++ 200	10.0 400	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	+++++ 640354	+++++ 1319572	64444 2745542	120634	244995	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	+++++ 75024	+++++ 156485	7834 339655	14930	28334	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	+++++ 632519	+++++ 1301863	58337 2739151	110095	237506	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isooctane	FB	Ave	+++++ 2113736	+++++ 4210033	187018 8688172	368595	789654	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Heptane	FB	Ave	+++++ 896868	+++++ 1764453	78732 3641402	156032	339123	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Benzene	FB	Ave	+++++ 1711924	+++++ 3463202	178317 7180570	323119	661965	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Propionitrile	FB	Ave	+++++ 256878	+++++ 524404	26639 1120149	48760	96495	+++++ 500	+++++ 1000	50.0 2000	100	200
Methacrylonitrile	FB	Ave	+++++ 1264498	+++++ 2550762	124900 5294585	240824	486139	+++++ 500	+++++ 1000	50.0 2000	100	200
Tert-amyl methyl ether	FB	Ave	+++++ 831589	+++++ 1760071	77772 3773690	145687	312871	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isobutyl alcohol	FB	Ave	+++++ 119541	+++++ 268497	11394 617765	21588	41829	+++++ 1250	+++++ 2500	125 5000	250	500
1,2-Dichloroethane	FB	Ave	+++++ 389935	+++++ 792899	41047 1679913	73911	151808	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methylcyclohexane	FB	Ave	+++++ 741450	+++++ 1472715	71541 3022572	133767	283692	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Trichloroethene	FB	Ave	+++++ 427982	+++++ 869171	44333 1787142	82314	164406	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Butanol	FB	Lin1	+++++ 122159	+++++ 288541	10328 662896	19481	43640	+++++ 1250	+++++ 2500	125 5000	250	500
Dibromomethane	FB	Ave	+++++ 138489	+++++ 285603	14253 613055	25525	53327	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl acrylate	FB	Lin1	+++++ 232678	+++++ 518359	18128 1205864	35846	81196	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	+++++ 388931	+++++ 803327	38367 1700757	70296	145447	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Bromodichloromethane	FB	Ave	+++++ 429313	+++++ 896159	40118 1920951	76217	159959	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methyl methacrylate	FB	Lin1	+++++ 279755	+++++ 624120	20958 1409404	42685	96996	+++++ 100	+++++ 200	10.0 400	20.0	40.0
1,4-Dioxane	FB	Lin1	+++++ 35029	+++++ 75259	2441 165356	4658	12924	+++++ 1000	+++++ 2000	100 4000	200	400
2-Chloroethyl vinyl ether	FB	Lin1	+++++ 133145	+++++ 299083	10472 685575	18708	43539	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
cis-1,3-Dichloropropene	FB	Ave	+++++ 535660	+++++ 1137541	46674 2440853	89566	193389	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Toluene	CBNZ d5	Ave	+++++ 1038826	+++++ 2134813	97551 4417660	186488	396282	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Nitropropane	CBNZ d5	Qua	+++++ 94436	+++++ 220262	7307 522751	15252	32898	+++++ 100	+++++ 200	10.0 400	20.0	40.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	+++++ 167571	+++++ 370461	13855 847086	27563	60764	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Tetrachloroethene	CBNZ d5	Ave	+++++ 337055	+++++ 684462	33850 1386279	62718	128986	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 444897	+++++ 928328	37689 1974880	73309	162630	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl methacrylate	CBNZ d5	Lin1	+++++ 280273	+++++ 637502	18627 1468526	39330	90959	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 183057	+++++ 376789	18597 816705	34610	70851	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dibromochloromethane	CBNZ d5	Ave	+++++ 209695	+++++ 442926	18782 962301	36124	76133	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 413391	+++++ 858264	41256 1857471	74551	155864	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Butyl acetate	CBNZ d5	Lin1	+++++ 291201	+++++ 659440	22566 1502944	44546	99897	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 185385	+++++ 385226	17428 833711	33193	69218	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Hexanone	CBNZ d5	Lin1	+++++ 109260	+++++ 242557	8806 566594	16685	38972	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1-Chlorohexane	CBNZ d5	Ave	+++++ 660952	+++++ 1393231	51424 2927851	104184	234584	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	+++++ 2011192	+++++ 4118895	200614 8359793	370484	766516	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	+++++ 970380	+++++ 1945916	101545 3934820	185950	374036	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 282341	+++++ 577983	27238 1215038	52173	107257	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
m,p-Xylenes	CBNZ d5	Ave	+++++ 741514	+++++ 1540622	65417 3191947	128535	276506	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
o-Xylene	CBNZ d5	Ave	+++++ 658868	+++++ 1375349	53595 2885030	108347	242663	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Styrene	CBNZ d5	Ave	+++++ 998520	+++++ 2114123	77450 4485942	153496	347797	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromoform	DCBd 4	Ave	+++++ 127243	+++++ 272905	10294 616373	21215	45680	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isopropylbenzene	DCBd 4	Ave	+++++ 1881515	+++++ 3878793	160505 7976091	318714	701117	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
N-Propylbenzene	DCBd 4	Ave	+++++ 2419163	+++++ 4928760	204366 9989243	411476	895539	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromobenzene	DCBd 4	Ave	+++++ 354826	+++++ 719824	35280 1494216	65617	135725	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 232356	+++++ 464852	23065 1020104	43123	87137	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 1519839	+++++ 3117675	123647 6415619	253192	559080	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 1505006	+++++ 3056427	145297 6334175	277322	575140	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 67107	+++++ 132522	6483 288062	12028	25029	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 75157	+++++ 156543	6939 345823	12977	27765	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Cyclohexanone	DCBd 4	Qua	+++++ 53603	+++++ 127185	4687 293803	8957	18818	+++++ 500	+++++ 1000	50.0 2000	100	200
4-Chlorotoluene	DCBd 4	Ave	+++++ 1356992	+++++ 2755231	121346 5795131	236240	505443	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 1340586	+++++ 2724102	113373 5551857	224981	488516	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 1486159	+++++ 3024939	127777 6280160	258144	550895	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 2151989	+++++ 4344687	186970 8823540	374255	794111	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
p-Isopropyltoluene	DCBd 4	Ave	+++++ 1711547	+++++ 3466945	144111 7081732	290450	625155	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 724605	+++++ 1459065	71497 3030092	133154	271209	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 1406732	+++++ 2867183	134714 5926336	254062	527933	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 708573	+++++ 1407832	74665 2879905	135935	273379	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
n-Butylbenzene	DCBd 4	Ave	+++++ 398539	+++++ 818438	34296 1661591	68294	146208	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Benzyl chloride	DCBd 4	Ave	+++++ 81583	+++++ 172156	6763 390535	13476	29122	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 621108	+++++ 1246928	62221 2604248	114861	234710	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Nonyl Aldehyde	DCBd 4	Lin	+++++ 148357	+++++ 384230	7696 834686	18198	45534	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 35297	+++++ 75457	2963 168888	5625	12942	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 581401	+++++ 1172742	56448 2397259	106346	215208	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 385556	+++++ 781555	37613 1616367	70563	144501	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 429924	+++++ 870667	39720 1838978	76824	156926	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Naphthalene	DCBd 4	Ave	+++++ 494454	+++++ 1031907	39958 2261806	79324	173774	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 346462	+++++ 702723	33031 1466607	62387	129103	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 294541	+++++ 602157	27310 1201840	54044	111200	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 339979	+++++ 680847	33869 1372373	64248	128825	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	+++++ 1454158	+++++ 2962088	127239 5824212	250334	532385	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	+++++ 483358	+++++ 983228	39910 1990968	80200	172101	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD
QuaF = Quadratic ISTD forced zero

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-429557/4	LICL4770.D
Level 2	IC 160-429557/5	LICL4771.D
Level 3	IC 160-429557/6	LICL4772.D
Level 4	IC 160-429557/7	LICL4773.D
Level 5	IC 160-429557/8	LICL4774.D
Level 6	ICIS 160-429557/9	LICL4775.D
Level 7	IC 160-429557/10	LICL4776.D
Level 8	IC 160-429557/11	LICL4777.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	+++++ -10.1	+++++ 1.2	29.4	17.1	18.9	19.4	30	30	30	30	30	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ -11.5	+++++ -12.6	9.0	4.7	6.3	4.2	30	30	30	30	30	30
Chloromethane	+++++ -13.9	+++++ -14.1	19.6	5.1	4.0	-0.7	30	30	30	30	30	30
Vinyl chloride	+++++ -9.5	+++++ -10.7	13.8	1.4	3.2	1.9	30	30	30	30	30	30
Butadiene	+++++ -10.8	+++++ -17.3	14.9	4.7	5.0	3.5	30	30	30	30	30	30
Bromomethane	+++++ -14.3	+++++ -13.7	24.6	4.0	3.2	-3.9	30	30	30	30	30	30
Chloroethane	+++++ -15.3	+++++ -8.1	16.6	5.1	6.5	-4.8	30	30	30	30	30	30
Trichlorofluoromethane	+++++ -8.5	+++++ -10.0	15.5	2.3	2.0	-1.3	30	30	30	30	30	30
Dichlorofluoromethane	+++++ -5.1	+++++ -6.7	12.8	0.2	1.0	-2.2	30	30	30	30	30	30
Ethyl ether	+++++ 1.5	+++++ 3.6	2.8	-5.3	-2.4	-0.2	30	30	30	30	30	30
Ethanol	+++++ -2.9	+++++ 7.2	3.4	-1.7	-0.1	-5.8	30	30	30	30	30	30
1,1-Dichloroethene	+++++ -3.6	+++++ -2.0	5.7	-2.0	0.5	1.4	30	30	30	30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ -5.9	+++++ -8.0	12.9	-0.1	1.6	-0.5	30	30	30	30	30	30
Carbon disulfide	+++++ -7.5	+++++ -8.0	10.8	0.9	2.6	1.3	30	30	30	30	30	30
Iodomethane	+++++ 1.7	+++++ 1.2	27.4	-13.4	-14.5	-2.5	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Acrolein	+++++ 5.1	+++++ 13.5	-5.9	-13.6	-0.7	1.7	30	30	30	30	30	30
3-Chloro-1-propene	+++++ -0.2	+++++ -1.4	4.6	-5.2	0.0	2.2	30	30	30	30	30	30
Isopropyl alcohol	+++++ 3.4	+++++ 10.2	-1.6	-7.2	-2.9	-1.9	30	30	30	30	30	30
Methylene Chloride	+++++ -4.2	+++++ -4.7	11.1	-1.0	-0.1	-1.1	30	30	30	30	30	30
Acetone	+++++ -8.2	+++++ -3.3	17.0	0.9	-0.4	-5.9	30	30	30	30	30	30
Methyl acetate	+++++ 1.6	+++++ 4.2	0.4	-3.0	-2.1	-1.2	30	30	30	30	30	30
trans-1,2-Dichloroethene	+++++ -2.7	+++++ -3.0	7.4	-1.6	1.1	-1.2	30	30	30	30	30	30
Hexane	+++++ -1.8	+++++ -1.6	-0.7	-4.3	3.2	5.3	30	30	30	30	30	30
Methyl tert-butyl ether	+++++ 1.6	+++++ 6.3	0.9	-7.0	-1.1	-0.7	30	30	30	30	30	30
2-Methyl-2-propanol	+++++ 5.2	+++++ 15.3	-7.8	-7.6	-4.5	-0.6	30	30	30	30	30	30
Acetonitrile	+++++ -4.3	+++++ 1.7	11.1	-3.3	-2.2	-3.0	30	30	30	30	30	30
Isopropyl ether	+++++ 5.7	+++++ 6.1	-2.6	-10.4	-1.4	2.6	30	30	30	30	30	30
2-Chloro-1,3-butadiene	+++++ 6.3	+++++ 7.3	-6.3	-10.8	-0.9	4.4	30	30	30	30	30	30
1,1-Dichloroethane	+++++ -3.1	+++++ -3.5	8.8	-2.1	1.1	-1.1	30	30	30	30	30	30
Acrylonitrile	+++++ -2.1	+++++ 2.0	6.6	-3.6	-1.1	-1.8	30	30	30	30	30	30
Tert-butyl ethyl ether	+++++ 5.0	+++++ 7.9	-3.0	-9.7	-2.2	2.0	30	30	30	30	30	30
Vinyl acetate	+++++ 0.6	+++++ 5.7	0.6	-7.0	-0.9	1.0	30	30	30	30	30	30
cis-1,2-Dichloroethene	+++++ -0.8	+++++ 0.1	7.1	-5.1	-0.4	-0.9	30	30	30	30	30	30
2,2-Dichloropropane	+++++ -1.8	+++++ -1.0	7.2	-3.0	-0.7	-0.7	30	30	30	30	30	30
Bromochloromethane	+++++ -4.7	+++++ -5.2	11.9	-0.8	-0.2	-0.9	30	30	30	30	30	30
Cyclohexane	+++++ -0.1	+++++ -0.2	-0.5	-5.3	1.7	4.4	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chloroform	+++++ -2.3	+++++ -2.5	8.6	-1.2	-0.4	-2.2	30	30	30	30	30	30
Ethyl acetate	+++++ -1.0	+++++ 6.5	6.6	-5.7	-2.8	-3.7	30	30	30	30	30	30
Carbon tetrachloride	+++++ -1.9	+++++ -2.2	7.3	-2.6	-0.4	-0.1	30	30	30	30	30	30
Tetrahydrofuran	+++++ 5.8	+++++ 15.1	-8.3	-11.5	-3.5	2.4	30	30	30	30	30	30
1,1,1-Trichloroethane	+++++ -1.3	+++++ -1.8	7.0	-2.1	-0.6	-1.3	30	30	30	30	30	30
2-Butanone (MEK)	+++++ -2.5	+++++ 1.2	8.3	0.9	-4.2	-3.7	30	30	30	30	30	30
1,1-Dichloropropene	+++++ 1.5	+++++ 2.1	1.0	-6.8	0.5	1.6	30	30	30	30	30	30
Isooctane	+++++ 0.4	+++++ -0.9	-1.0	-4.6	2.2	3.9	30	30	30	30	30	30
n-Heptane	+++++ -0.4	+++++ -1.8	-1.4	-4.5	3.8	4.2	30	30	30	30	30	30
Benzene	+++++ -3.2	+++++ -4.1	10.6	-2.1	0.3	-1.5	30	30	30	30	30	30
Propionitrile	+++++ -2.7	+++++ -0.6	9.7	-1.8	-2.9	-1.8	30	30	30	30	30	30
Methacrylonitrile	+++++ -2.6	+++++ -3.3	5.9	-0.2	0.7	-0.5	30	30	30	30	30	30
Tert-amyl methyl ether	+++++ 2.7	+++++ 5.3	0.7	-7.8	-1.0	0.0	30	30	30	30	30	30
Isobutyl alcohol	+++++ 5.7	+++++ 16.3	-0.4	-7.8	-10.7	-3.1	30	30	30	30	30	30
1,2-Dichloroethane	+++++ -3.6	+++++ -2.4	10.8	-2.5	0.1	-2.4	30	30	30	30	30	30
Methylcyclohexane	+++++ -2.1	+++++ -3.9	5.6	-3.5	2.3	1.6	30	30	30	30	30	30
Trichloroethene	+++++ -3.0	+++++ -4.6	9.9	-0.3	-0.4	-1.6	30	30	30	30	30	30
n-Butanol	+++++ -2.9	+++++ 5.2	25.5	-5.5	-9.8	-12.5	30	30	30	30	30	30
Dibromomethane	+++++ -1.9	+++++ 0.7	8.7	-4.9	-0.6	-2.0	30	30	30	30	30	30
Ethyl acrylate	+++++ -4.3	+++++ 4.9	21.9	-5.3	-8.4	-8.8	30	30	30	30	30	30
1,2-Dichloropropane	+++++ 0.0	+++++ 1.2	6.0	-5.1	-1.8	-0.3	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Bromodichloromethane	+++++ 1.8	+++++ 4.3	1.1	-6.1	-1.5	0.4	30	30	30	30	30	30
Methyl methacrylate	+++++ -2.6	+++++ 3.7	19.4	-5.2	-7.8	-7.5	30	30	30	30	30	30
1,4-Dioxane	+++++ -1.8	+++++ 1.9	15.0	-12.6	0.9	-3.4	30	30	30	30	30	30
2-Chloroethyl vinyl ether	+++++ -3.1	+++++ 4.6	27.6	-8.9	-12.0	-8.2	30	30	30	30	30	30
cis-1,3-Dichloropropene	+++++ 5.6	+++++ 8.3	-3.8	-9.8	-2.6	2.4	30	30	30	30	30	30
Toluene	+++++ 1.8	+++++ 3.0	0.7	-5.6	0.1	0.0	30	30	30	30	30	30
2-Nitropropane	+++++ 0.9	+++++ -0.1	15.9	1.5	-1.5	-2.9	30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	+++++ 9.2	+++++ 22.0	-11.7	-13.8	-5.2	-0.4	30	30	30	30	30	30
Tetrachloroethene	+++++ -0.4	+++++ -1.4	6.6	-3.1	-0.6	-1.1	30	30	30	30	30	30
trans-1,3-Dichloropropene	+++++ 6.2	+++++ 10.4	-6.7	-11.0	-1.5	2.7	30	30	30	30	30	30
Ethyl methacrylate	+++++ -4.2	+++++ 5.7	27.5	-5.0	-12.9	-11.2	30	30	30	30	30	30
1,1,2-Trichloroethane	+++++ -1.3	+++++ 4.6	5.4	-3.8	-1.7	-3.3	30	30	30	30	30	30
Dibromochloromethane	+++++ 5.1	+++++ 11.6	-3.6	-9.1	-4.4	0.4	30	30	30	30	30	30
1,3-Dichloropropane	+++++ 0.8	+++++ 6.6	4.8	-7.1	-3.1	-2.1	30	30	30	30	30	30
n-Butyl acetate	+++++ -3.8	+++++ 5.4	25.5	-4.9	-11.0	-11.2	30	30	30	30	30	30
1,2-Dibromoethane	+++++ 2.2	+++++ 8.1	0.0	-6.6	-2.8	-0.8	30	30	30	30	30	30
2-Hexanone	+++++ -5.5	+++++ 6.1	25.5	-6.3	-8.6	-11.3	30	30	30	30	30	30
1-Chlorohexane	+++++ 9.7	+++++ 12.7	-12.4	-12.9	-2.2	5.0	30	30	30	30	30	30
Ethylbenzene	+++++ 0.5	+++++ -0.3	5.9	-4.1	-1.0	-1.0	30	30	30	30	30	30
Chlorobenzene	+++++ -2.5	+++++ -3.7	10.1	-1.2	-0.8	-1.9	30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	+++++ 0.5	+++++ 3.2	2.4	-3.8	-1.3	-1.0	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
m,p-Xylenes	+++++ 4.6	+++++ 5.9	-3.9	-7.4	-0.6	1.5	30	30	30	30	30	30
o-Xylene	+++++ 7.1	+++++ 9.7	-9.7	-10.5	0.0	3.4	30	30	30	30	30	30
Styrene	+++++ 10.6	+++++ 14.7	-12.3	-14.8	-3.7	5.4	30	30	30	30	30	30
Bromoform	+++++ 8.4	+++++ 21.2	-12.0	-11.9	-5.8	0.1	30	30	30	30	30	30
Isopropylbenzene	+++++ 5.8	+++++ 7.8	-5.7	-9.0	-0.7	1.7	30	30	30	30	30	30
N-Propylbenzene	+++++ 5.5	+++++ 5.9	-5.8	-7.8	-0.4	2.6	30	30	30	30	30	30
Bromobenzene	+++++ 0.1	+++++ 3.0	5.6	-4.5	-2.0	-2.2	30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	+++++ -1.5	+++++ 7.1	5.2	-4.4	-4.1	-2.4	30	30	30	30	30	30
1,3,5-Trimethylbenzene	+++++ 6.8	+++++ 8.8	-8.9	-9.3	-0.6	3.1	30	30	30	30	30	30
2-Chlorotoluene	+++++ 0.8	+++++ 3.5	3.2	-4.3	-1.5	-1.6	30	30	30	30	30	30
1,2,3-Trichloropropane	+++++ -1.1	+++++ 6.6	4.2	-6.1	-3.0	-0.7	30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	+++++ 3.7	+++++ 13.4	-1.1	-10.1	-4.5	-1.4	30	30	30	30	30	30
Cyclohexanone	+++++ 1.7	+++++ -0.1	28.0	3.4	-3.0	-5.2	30	30	30	30	30	30
4-Chlorotoluene	+++++ 3.2	+++++ 7.5	-2.2	-7.5	-1.7	0.7	30	30	30	30	30	30
tert-Butylbenzene	+++++ 5.7	+++++ 6.7	-5.3	-8.7	-1.6	3.1	30	30	30	30	30	30
1,2,4-Trimethylbenzene	+++++ 4.3	+++++ 7.3	-5.1	-6.8	-1.3	1.6	30	30	30	30	30	30
sec-Butylbenzene	+++++ 4.1	+++++ 4.7	-3.6	-6.2	-1.2	2.2	30	30	30	30	30	30
p-Isopropyltoluene	+++++ 5.3	+++++ 6.6	-5.8	-7.7	-1.4	3.0	30	30	30	30	30	30
1,3-Dichlorobenzene	+++++ 0.2	+++++ 3.1	5.7	-4.3	-3.3	-1.4	30	30	30	30	30	30
1,2,3-Trimethylbenzene	+++++ 1.8	+++++ 4.3	3.0	-5.6	-2.6	-1.0	30	30	30	30	30	30
1,4-Dichlorobenzene	+++++ -2.8	+++++ -1.5	11.0	-1.8	-2.0	-3.0	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1 Analy Batch No.: 429557

SDG No.:

Instrument ID: VMSL GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/23/2019 11:32 Calibration End Date: 05/23/2019 14:26 Calibration ID: 15801

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
n-Butylbenzene	+++++ 5.8	+++++ 6.4	-4.6	-7.7	-1.9	2.1	30	30	30	30	30	30
Benzyl chloride	+++++ 7.0	+++++ 20.3	-9.5	-12.4	-6.0	0.5	30	30	30	30	30	30
1,2-Dichlorobenzene	+++++ -0.6	+++++ 2.8	6.8	-4.2	-2.9	-1.9	30	30	30	30	30	30
n-Nonyl Aldehyde	+++++ -1.6	+++++ 1.3	98.9 *	24.8	-4.4	-14.8	30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	+++++ 8.1	+++++ 19.8	-8.6	-15.7	-3.7	0.2	30	30	30	30	30	30
1,3,5-Trichlorobenzene	+++++ 1.1	+++++ 2.4	4.8	-4.1	-3.6	-0.6	30	30	30	30	30	30
Hexachlorobutadiene	+++++ 1.0	+++++ 3.4	4.6	-4.6	-3.1	-1.3	30	30	30	30	30	30
1,2,4-Trichlorobenzene	+++++ 2.3	+++++ 7.0	0.5	-5.6	-4.3	0.1	30	30	30	30	30	30
Naphthalene	+++++ 8.1	+++++ 17.4	-9.8	-13.0	-5.4	2.7	30	30	30	30	30	30
1,2,3-Trichlorobenzene	+++++ 1.6	+++++ 5.0	2.8	-5.6	-3.1	-0.7	30	30	30	30	30	30
Dibromofluoromethane (Surr)	+++++ 0.9	+++++ -3.7	1.6	-1.7	1.1	1.7	30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	+++++ -2.4	+++++ -5.9	7.8	-0.1	0.2	0.4	30	30	30	30	30	30
Toluene-d8 (Surr)	+++++ 4.7	+++++ 0.6	-2.7	-6.1	-0.4	3.7	30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	+++++ 6.9	+++++ 7.2	-6.6	-8.8	-2.8	4.1	30	30	30	30	30	30

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-May-2019 11:32:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015160-004
Misc. Info.: IC
Operator ID: KA Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 28-May-2019 11:54:59 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0324

First Level Reviewer: aguk Date: 28-May-2019 11:04:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.164	3.150	0.014	95	12474	1.00	1.28	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	93	3872	1.00	0.9753	a
3 Chloromethane	50	3.514	3.499	0.015	96	14292	1.00	1.27	
4 Vinyl chloride	62	3.667	3.667	0.000	95	10774	1.00	1.05	
122 Butadiene	39	3.695	3.695	0.000	91	11616	1.00	1.22	
5 Bromomethane	94	4.268	4.268	0.000	82	4539	1.00	1.02	
6 Chloroethane	64	4.491	4.477	0.014	94	6072	1.00	1.07	
7 Trichlorofluoromethane	101	4.729	4.714	0.015	96	14003	1.00	1.13	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	95	14571	1.00	1.04	
8 Ethyl ether	74	5.231	5.231	0.000	93	2708	1.00	0.8808	
11 Ethanol	45	5.455	5.469	-0.014	15	960	40.0	28.9	a
9 1,1-Dichloroethene	96	5.539	5.525	0.014	93	6450	1.00	1.01	
12 1,1,2-Trichloro-1,2,2-trif	151	5.581	5.580	0.001	91	5186	1.00	0.9757	
10 Carbon disulfide	76	5.581	5.580	0.001	100	26612	1.00	1.04	
13 Iodomethane	142	5.748	5.748	0.000	79	978	1.00	4.55	a
S 26 1,2-Dichloroethene, Total	96				0			1.98	
14 Acrolein	56	6.014	6.013	0.001	95	1001	5.00	3.68	a
15 3-Chloro-1-propene	39	6.181	6.181	0.000	90	7776	1.00	0.9279	
16 Isopropyl alcohol	45	6.209	6.209	0.000	67	2051	10.0	10.2	
17 Methylene Chloride	84	6.335	6.335	0.000	94	6696	1.00	1.04	
18 Acetone	43	6.391	6.390	0.001	86	1587	1.00	1.66	a
19 trans-1,2-Dichloroethene	96	6.530	6.530	0.000	94	7368	1.00	1.01	
20 Methyl acetate	74	6.530	6.530	0.000	33	772	5.00	3.81	
21 Hexane	86	6.600	6.600	0.000	92	2066	1.00	0.8126	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	89	11568	1.00	0.8561	Ma
23 2-Methyl-2-propanol	59	6.740	6.740	0.000	92	2919	10.0	9.01	
24 Acetonitrile	41	6.977	6.963	0.014	92	4079	10.0	11.6	
25 Isopropyl ether	45	7.061	7.061	0.000	90	17141	1.00	0.8366	
27 2-Chloro-1,3-butadiene	53	7.215	7.214	0.001	91	9476	1.00	0.7667	
28 1,1-Dichloroethane	63	7.243	7.242	0.001	96	14266	1.00	1.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.312	7.312	0.000	98	10709	10.0	9.05	
30 Tert-butyl ethyl ether	59	7.452	7.466	-0.014	97	14502	1.00	0.8107	
31 Vinyl acetate	43	7.494	7.494	0.000	98	7553	1.00	0.8384	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	80	6873	1.00	0.9738	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	90	12350	1.00	1.03	
34 Cyclohexane	84	8.025	8.024	0.001	91	10601	1.00	0.8006	
35 Chlorobromomethane	128	8.025	8.024	0.001	62	2184	1.00	0.9838	
36 Chloroform	83	8.081	8.080	0.001	92	13172	1.00	1.07	
39 Ethyl acetate	45	8.164	8.164	0.000	64	1022	2.00	2.15	a
37 Carbon tetrachloride	117	8.234	8.234	0.000	95	9335	1.00	0.9671	
38 Tetrahydrofuran	71	8.248	8.248	0.000	70	355	2.00	1.01	Ma
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	91	4871	1.00	0.9257	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	96	11908	1.00	1.01	
43 2-Butanone (MEK)	43	8.388	8.388	0.000	30	1265	1.00	0.8936	a
42 1,1-Dichloropropene	75	8.416	8.416	0.000	94	10032	1.00	0.8871	
125 Isooctane	57	8.486	8.485	0.001	97	29679	1.00	0.8027	
117 n-Heptane	43	8.569	8.569	0.000	87	12278	1.00	0.7855	
44 Benzene	78	8.667	8.667	0.000	93	31937	1.00	1.01	
45 Propionitrile	54	8.695	8.695	0.000	2	4009	10.0	8.44	
46 Methacrylonitrile	41	8.709	8.709	0.000	93	20834	10.0	9.02	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	95	11979	1.00	0.7925	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	96	5686	1.00	0.9242	
50 Isobutyl alcohol	42	8.793	8.793	0.000	20	1267	25.0	14.1	
49 1,2-Dichloroethane	62	8.863	8.862	0.001	96	7423	1.00	1.02	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1408747	50.0	50.0	
53 Trichloroethene	95	9.198	9.198	0.000	70	7883	1.00	1.00	
52 Methylcyclohexane	55	9.198	9.198	0.000	92	12799	1.00	0.9648	
54 n-Butanol	56	9.421	9.421	0.000	28	1305	25.0	75.0	
55 Dibromomethane	93	9.603	9.603	0.000	62	2515	1.00	0.9795	
124 Ethyl acrylate	55	9.631	9.631	0.000	91	2999	1.00	3.09	a
56 1,2-Dichloropropane	63	9.687	9.700	-0.013	90	6763	1.00	0.9542	
57 Dichlorobromomethane	83	9.729	9.728	0.001	96	7172	1.00	0.9233	
58 Methyl methacrylate	69	9.826	9.826	0.000	34	2823	2.00	5.83	
59 1,4-Dioxane	88		9.910				ND	ND	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	76	1425	1.00	3.23	a
61 cis-1,3-Dichloropropene	75	10.301	10.301	0.000	92	7829	1.00	0.8238	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	21356	1.00	0.8545	
63 Toluene	92	10.511	10.510	0.001	98	16212	1.00	0.8753	
64 2-Nitropropane	43	10.734	10.734	0.000	45	1110	2.00	4.49	a
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	91	2346	1.00	0.7822	a
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	92	5867	1.00	0.7595	
65 Tetrachloroethene	164	10.860	10.874	-0.014	95	6593	1.00	1.09	
69 Ethyl methacrylate	69	10.944	10.943	0.001	9	2461	1.00	3.86	a
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	87	3486	1.00	1.03	
70 Chlorodibromomethane	129	11.209	11.209	0.000	83	3169	1.00	0.8508	
71 1,3-Dichloropropane	76	11.279	11.293	-0.014	91	7418	1.00	0.9859	
119 n-Butyl acetate	43	11.432	11.432	0.000	95	3859	1.00	3.44	a
72 Ethylene Dibromide	107	11.446	11.446	0.000	96	2872	1.00	0.8620	
74 2-Hexanone	43	11.558	11.558	0.000	93	1137	1.00	3.16	a
S 73 1,3-Dichloropropene, Total	75				0			1.58	
75 1-Chlorohexane	91	11.823	11.823	0.000	85	7969	1.00	0.7103	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	91	860489	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.879	11.893	-0.014	67	36263	1.00	1.00	
77 Chlorobenzene	112	11.893	11.907	-0.014	96	19280	1.00	1.09	
79 1,1,1,2-Tetrachloroethane	131	11.949	11.949	0.000	83	4751	1.00	0.9345	
80 m-Xylene & p-Xylene	106	12.005	12.019	-0.014	99	11292	1.00	0.8674	
82 o-Xylene	106	12.410	12.424	-0.014	98	9154	1.00	0.8063	
83 Styrene	104	12.466	12.466	0.000	94	11726	1.00	0.6944	
84 Bromoform	173	12.536	12.536	0.000	89	1733	1.00	0.7613	a
85 Isopropylbenzene	105	12.689	12.689	0.000	96	24491	1.00	0.7393	
$ 86 4-Bromofluorobenzene (Surr	95	12.983	12.996	-0.013	90	7242	1.00	0.8710	
88 N-Propylbenzene	91	13.080	13.080	0.000	99	30474	1.00	0.7218	
87 Bromobenzene	156	13.122	13.122	0.000	96	5989	1.00	0.9216	
89 1,1,2,2-Tetrachloroethane	83	13.136	13.150	-0.014	1	3588	1.00	0.8414	a
91 1,3,5-Trimethylbenzene	105	13.234	13.248	-0.014	92	18084	1.00	0.6851	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	21615	1.00	0.7887	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	10	758	1.00	0.6262	Ma
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	63	1095	1.00	0.8022	a
94 Cyclohexanone	55		13.388				ND	ND	
95 4-Chlorotoluene	91	13.416	13.415	0.001	98	18651	1.00	0.7727	
96 tert-Butylbenzene	119	13.555	13.569	-0.014	93	16657	1.00	0.7151	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	98	17104	1.00	0.6528	
98 sec-Butylbenzene	105	13.737	13.737	0.000	95	27111	1.00	0.7186	
99 4-Isopropyltoluene	119	13.849	13.848	0.001	97	19052	1.00	0.6402	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	96	12971	1.00	0.9855	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	56	22851	1.00	0.8981	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	410135	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	92	13987	1.00	1.07	
103 n-Butylbenzene	134	14.268	14.267	0.001	97	5843	1.00	0.8353	
121 Benzyl chloride	126	14.295	14.295	0.000	94	906	1.00	0.6232	a
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	93	10941	1.00	0.9648	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	70	1402	1.00	8.36	a
105 1,2-Dibromo-3-Chloropropan	157		15.287				ND	ND	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	93	9991	1.00	0.9532	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	90	7079	1.00	1.01	
109 1,2,4-Trichlorobenzene	180	15.943	15.943	0.000	89	7259	1.00	0.9435	
110 Naphthalene	128	16.307	16.306	0.001	93	7265	1.00	0.8424	a
S 112 Xylenes, Total	106				0			1.67	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	89	5569	1.00	0.8908	
S 113 Trihalomethanes, Total	1				0			3.61	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

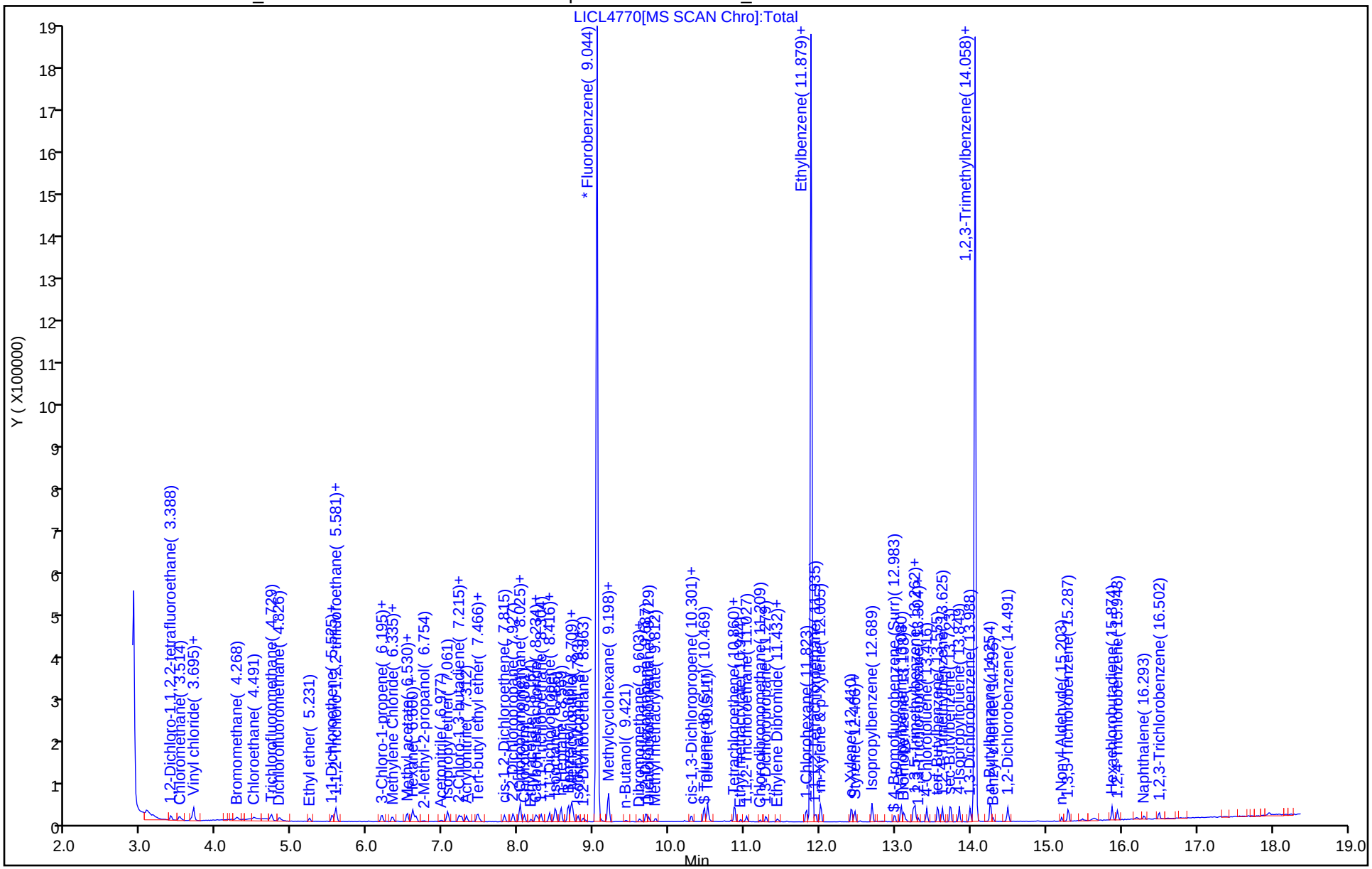
8260 NewWkMix_00328	Amount Added:	0.20	Units: uL	
8260 Surr 25_00099	Amount Added:	0.20	Units: uL	
I.S. Working_00177	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 28-May-2019 11:54:59 Chrom Revision: 2.3 03-May-2019 15:52:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D

Injection Date:	23-May-2019 11:32:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis

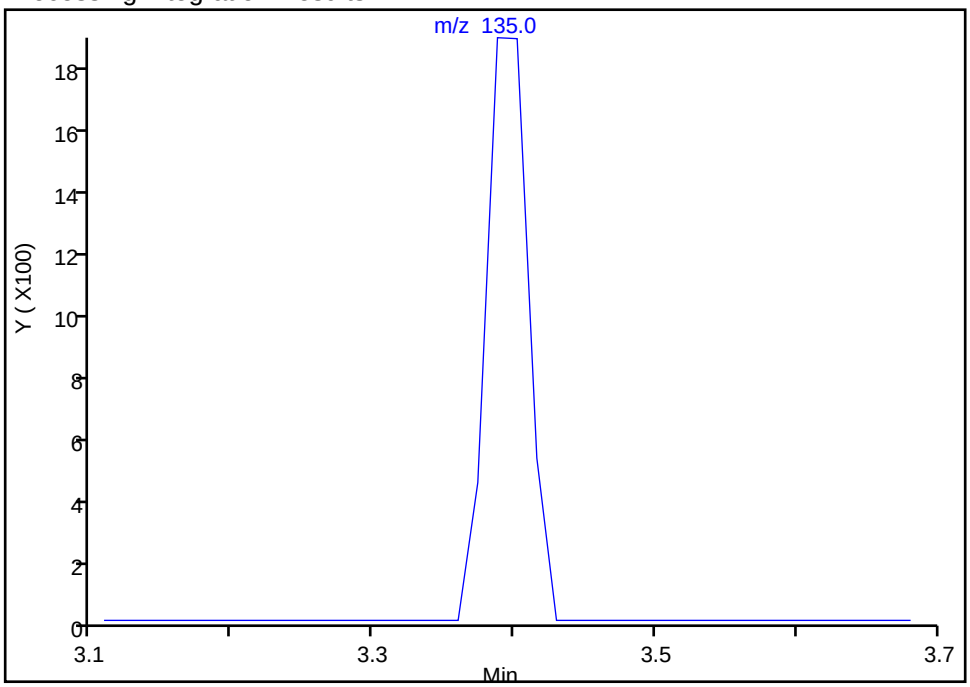
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Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

2 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Signal: 1

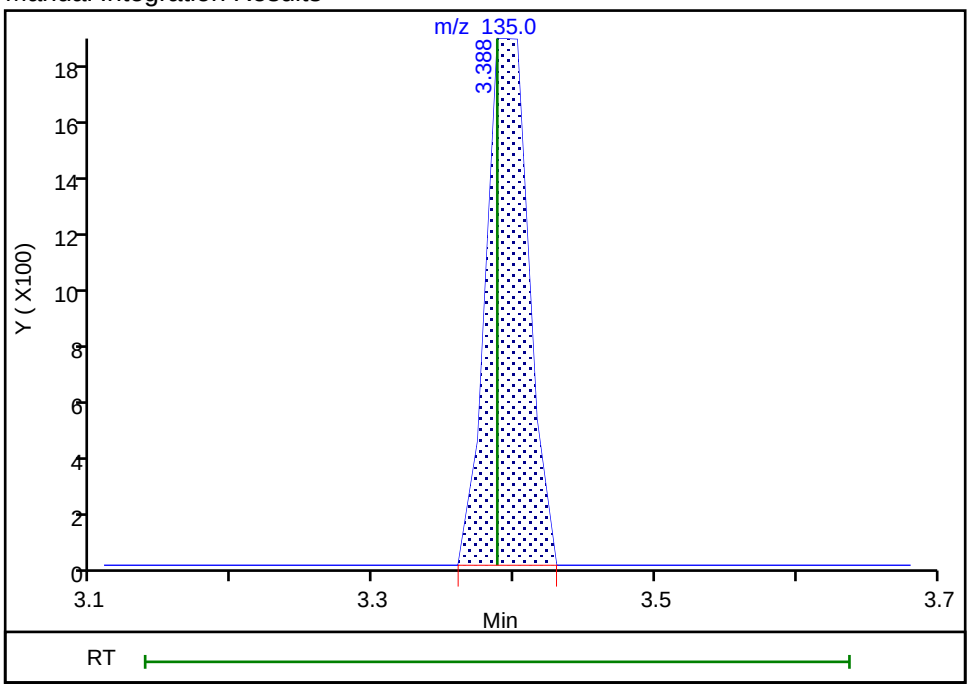
Processing Integration Results

Not Detected
Expected RT: 3.39



Manual Integration Results

RT: 3.39
Area: 3872
Amount: 0.975347
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:00:43
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

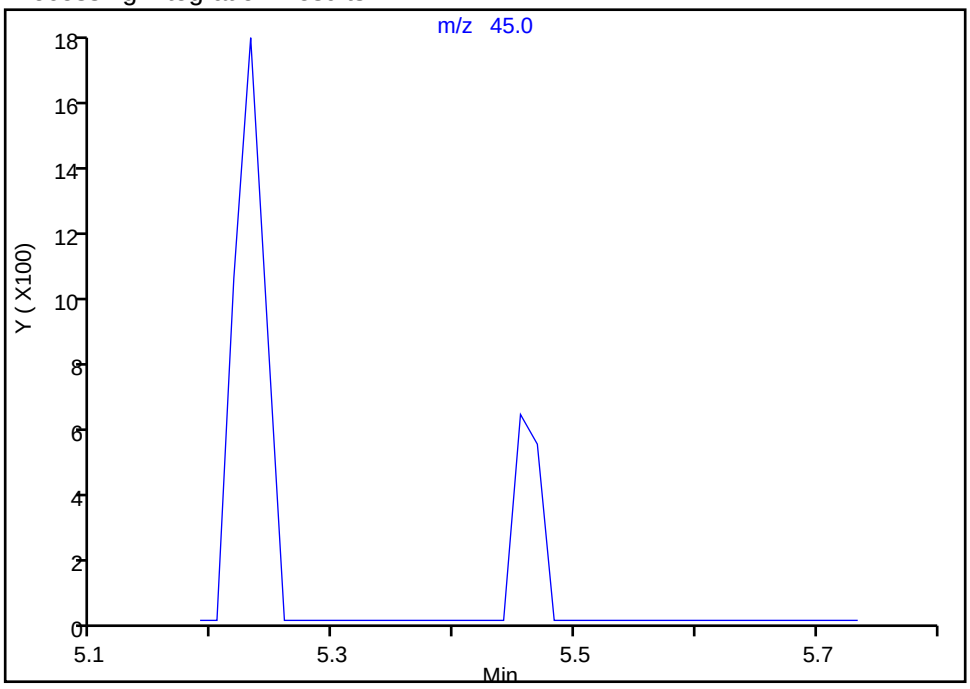
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Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

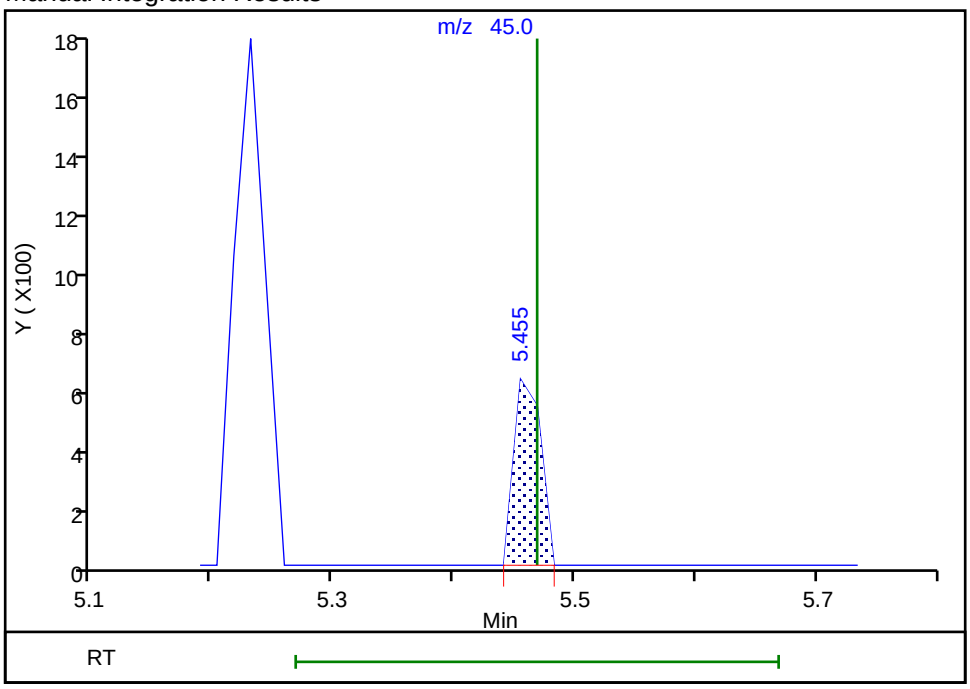
Not Detected
Expected RT: 5.47

Processing Integration Results



Manual Integration Results

RT: 5.45
Area: 960
Amount: 28.914941
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:00:50
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

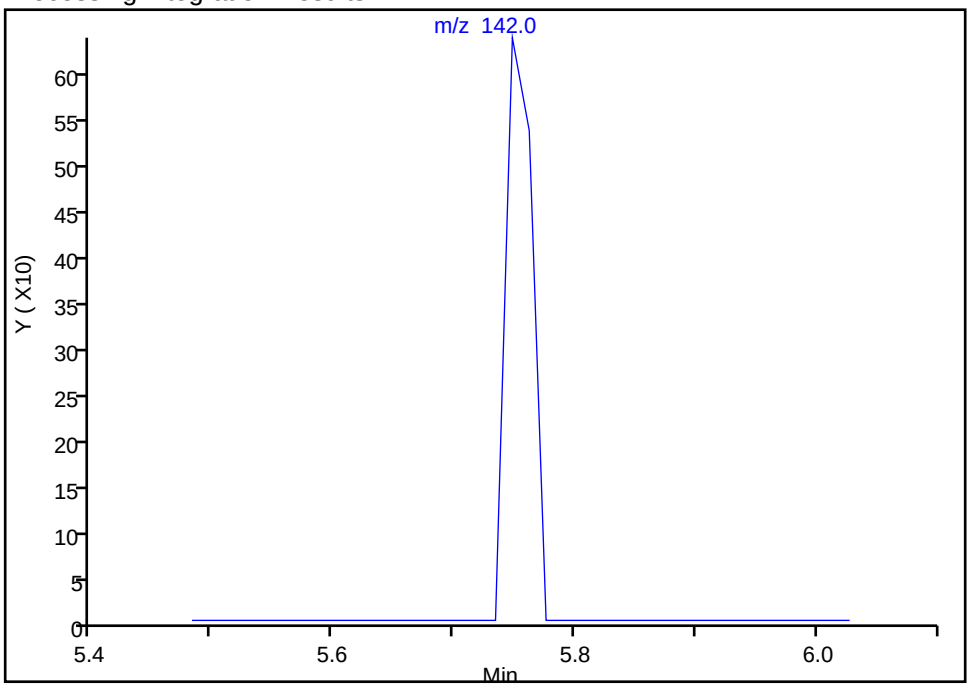
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Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

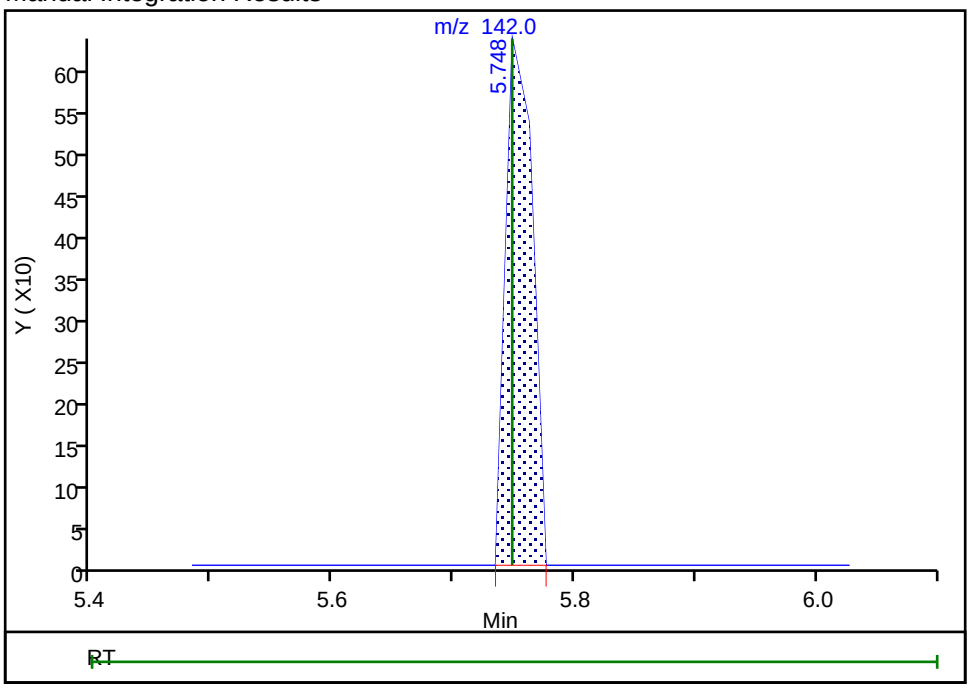
Not Detected
Expected RT: 5.75

Processing Integration Results



Manual Integration Results

RT: 5.75
Area: 978
Amount: 4.546999
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:00:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

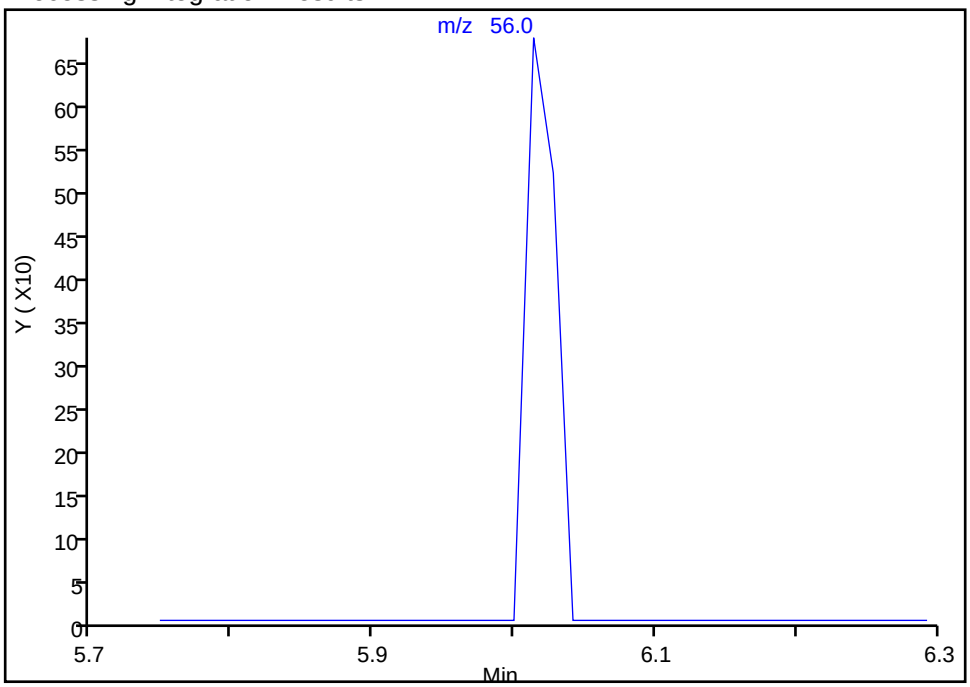
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Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

14 Acrolein, CAS: 107-02-8

Signal: 1

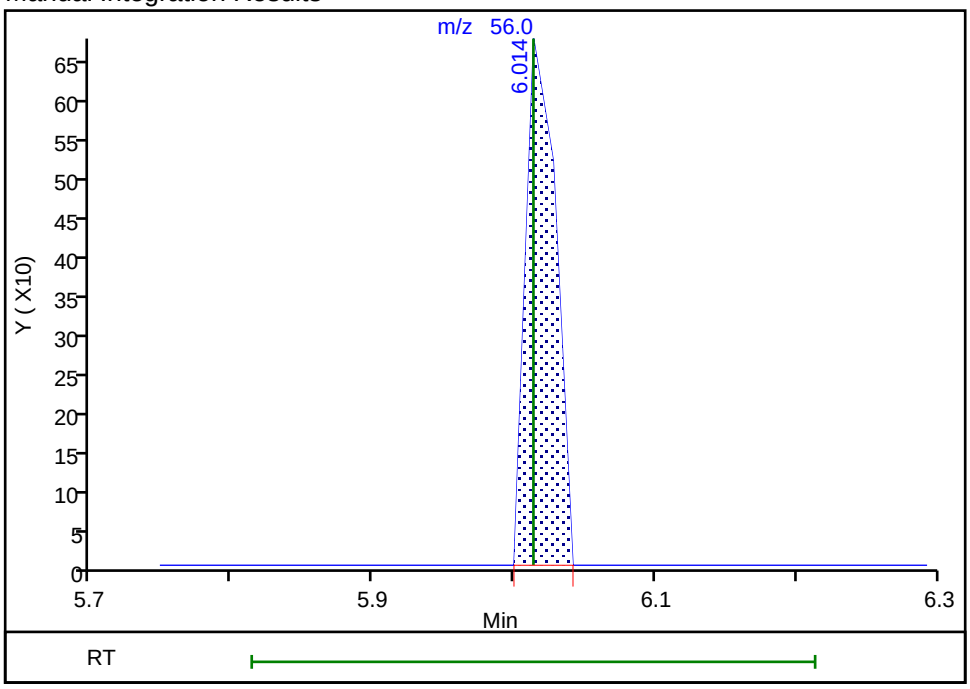
Not Detected
Expected RT: 6.01

Processing Integration Results



Manual Integration Results

RT: 6.01
Area: 1001
Amount: 3.675143
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:01:03
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

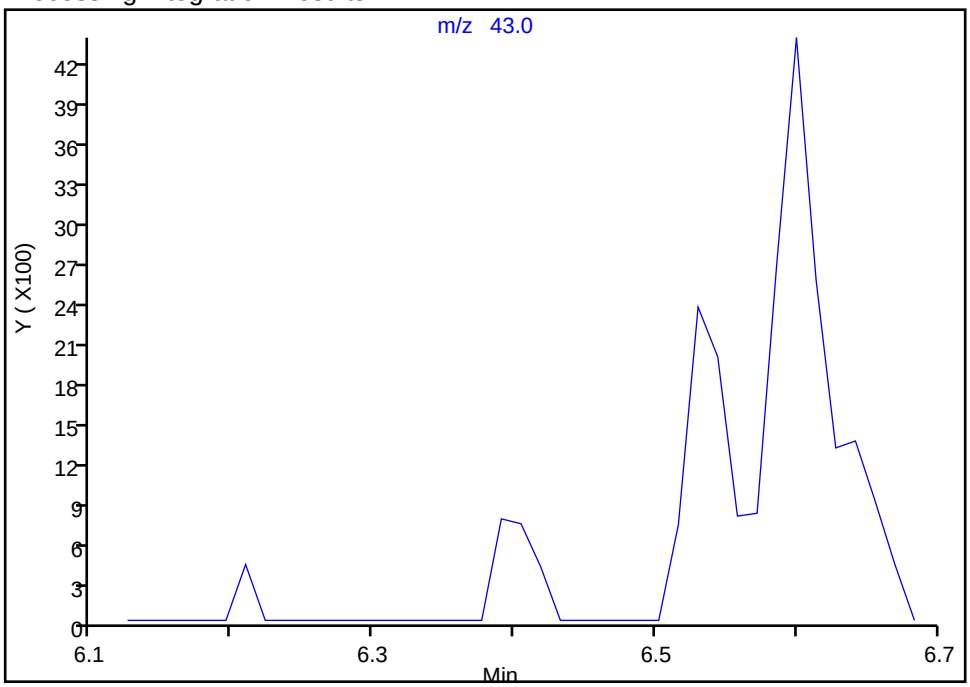
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Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

18 Acetone, CAS: 67-64-1

Signal: 1

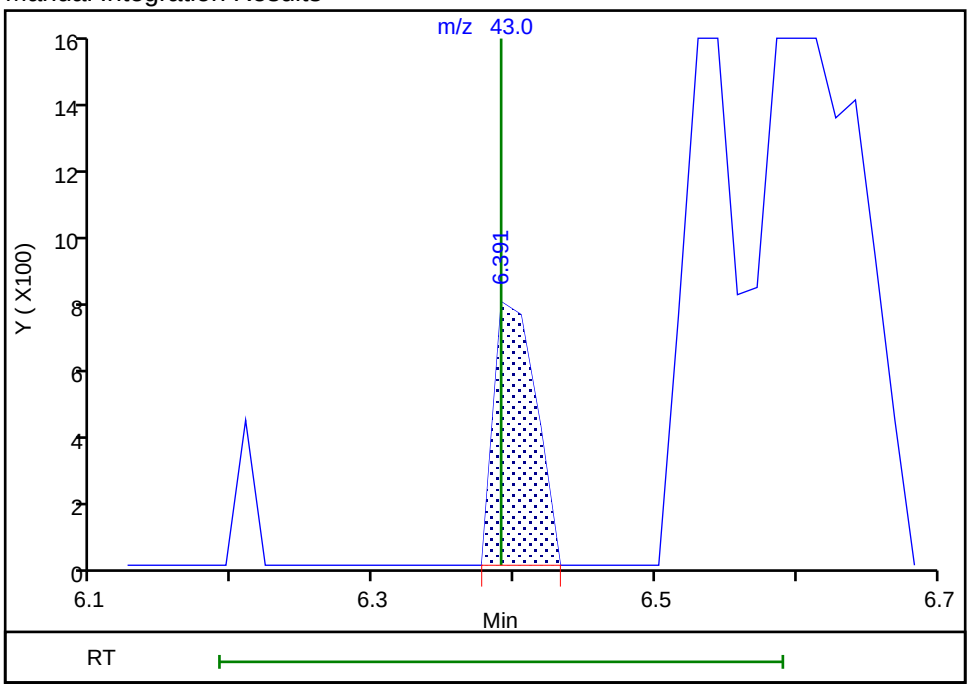
Not Detected
Expected RT: 6.39

Processing Integration Results



Manual Integration Results

RT: 6.39
Area: 1587
Amount: 1.656745
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:01:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

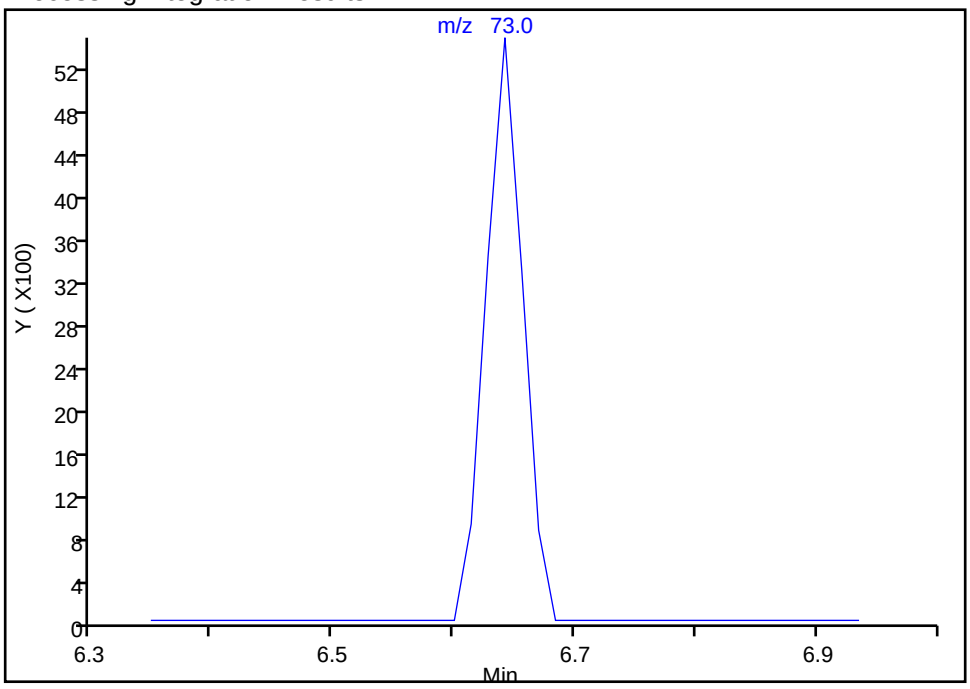
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Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

22 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

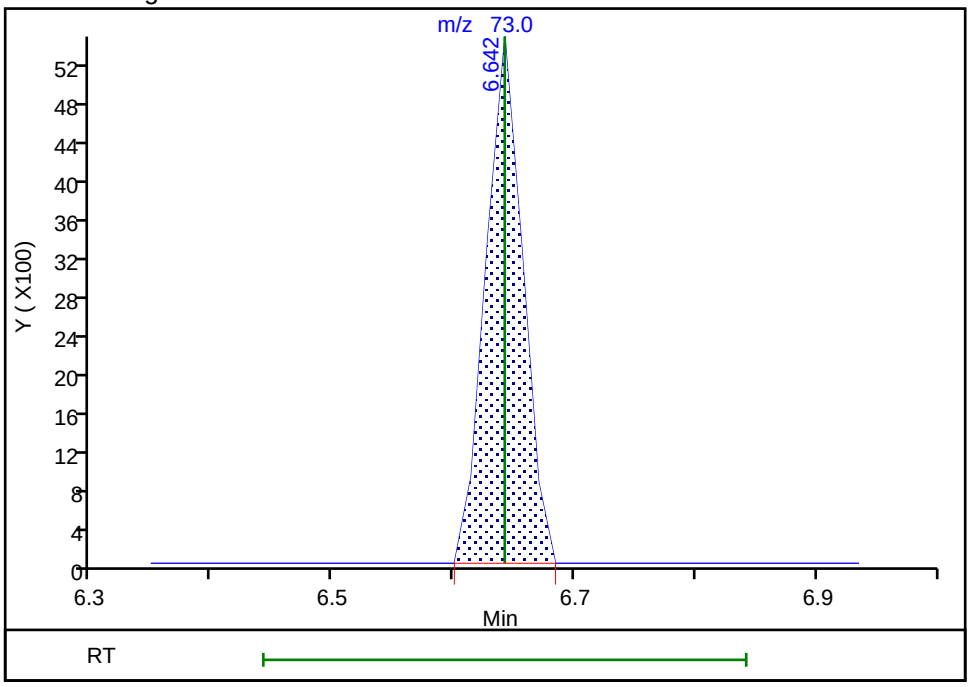
Processing Integration Results

RT: 6.65
Area: 0
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 6.64
Area: 11568
Amount: 0.856132
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:01:38
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

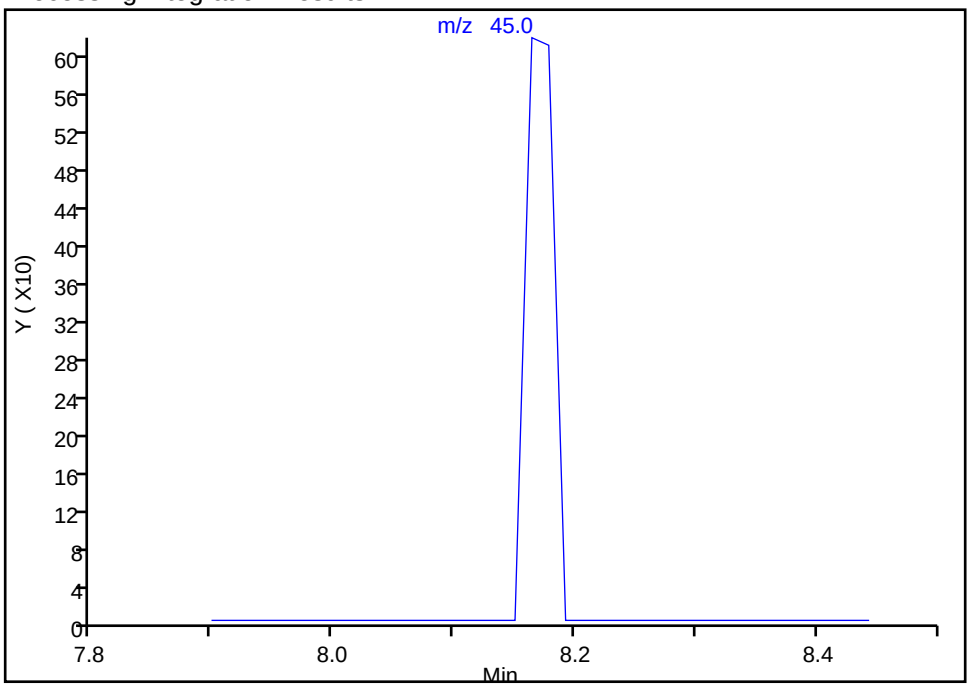
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Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

39 Ethyl acetate, CAS: 141-78-6

Signal: 1

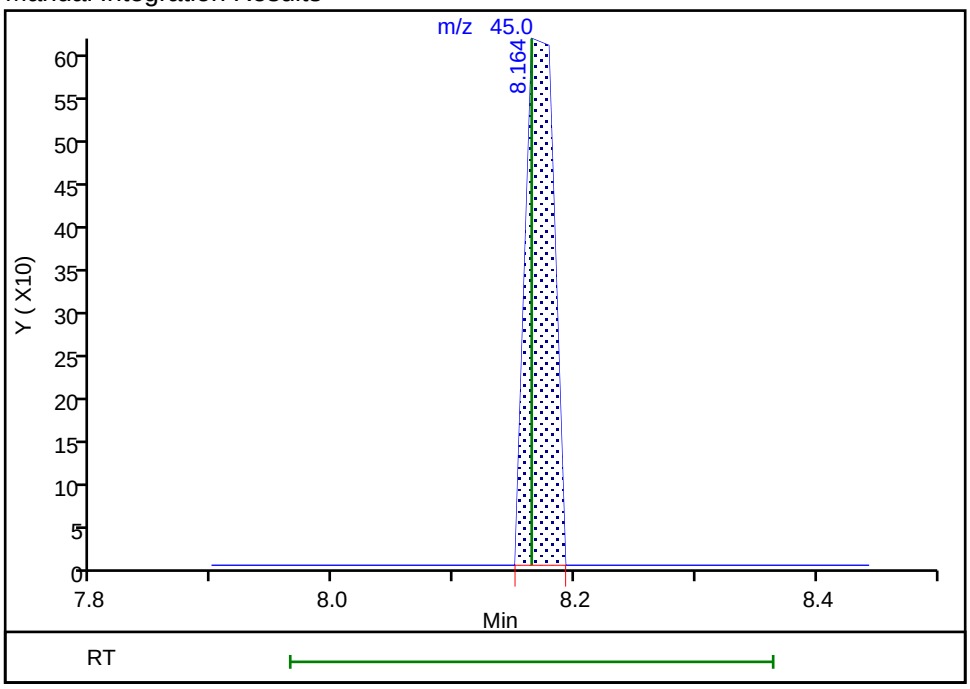
Not Detected
Expected RT: 8.16

Processing Integration Results



Manual Integration Results

RT: 8.16
Area: 1022
Amount: 2.147688
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:02:22
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

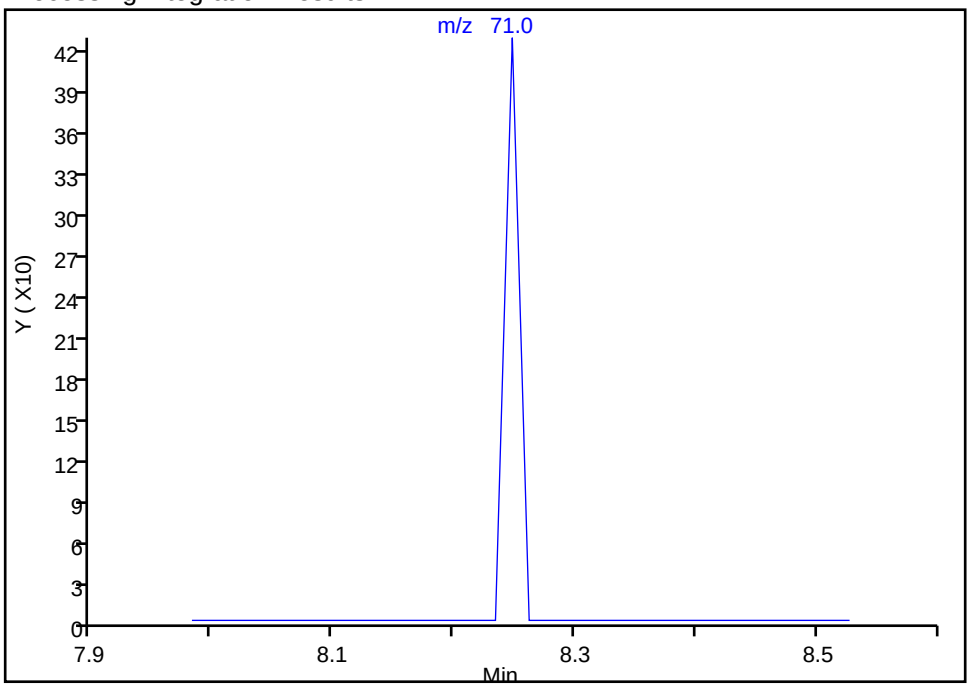
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Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

38 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

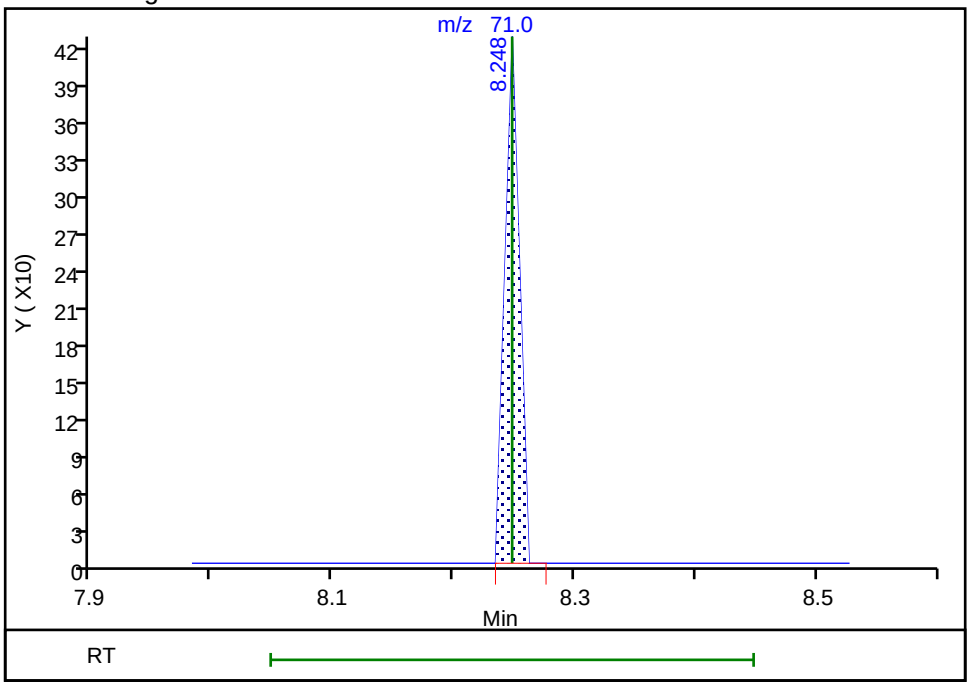
Not Detected
Expected RT: 8.25

Processing Integration Results



Manual Integration Results

RT: 8.25
Area: 355
Amount: 1.012431
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:02:33
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

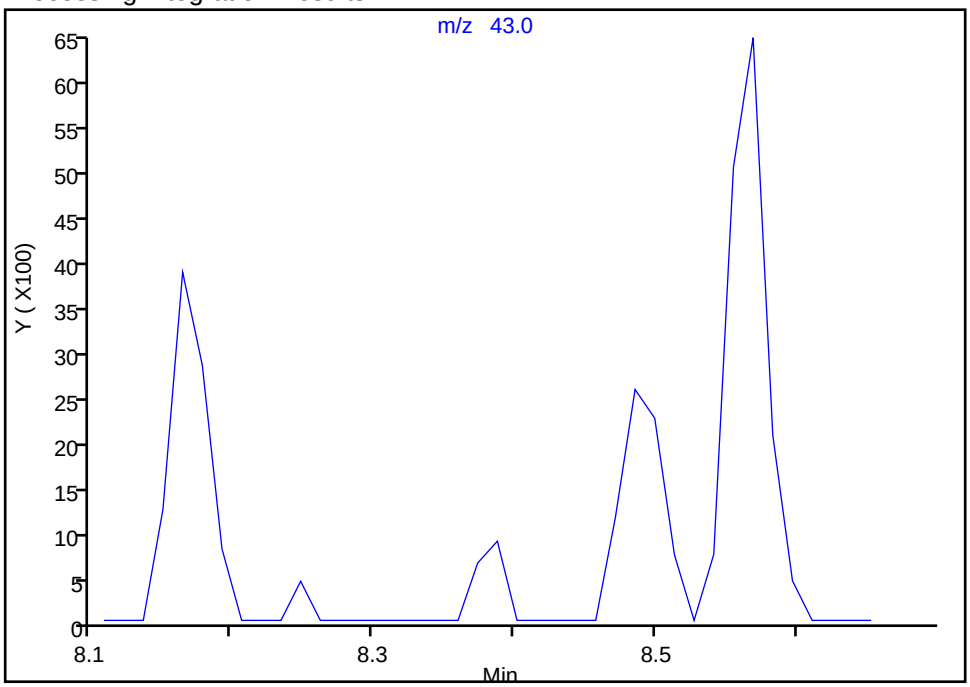
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

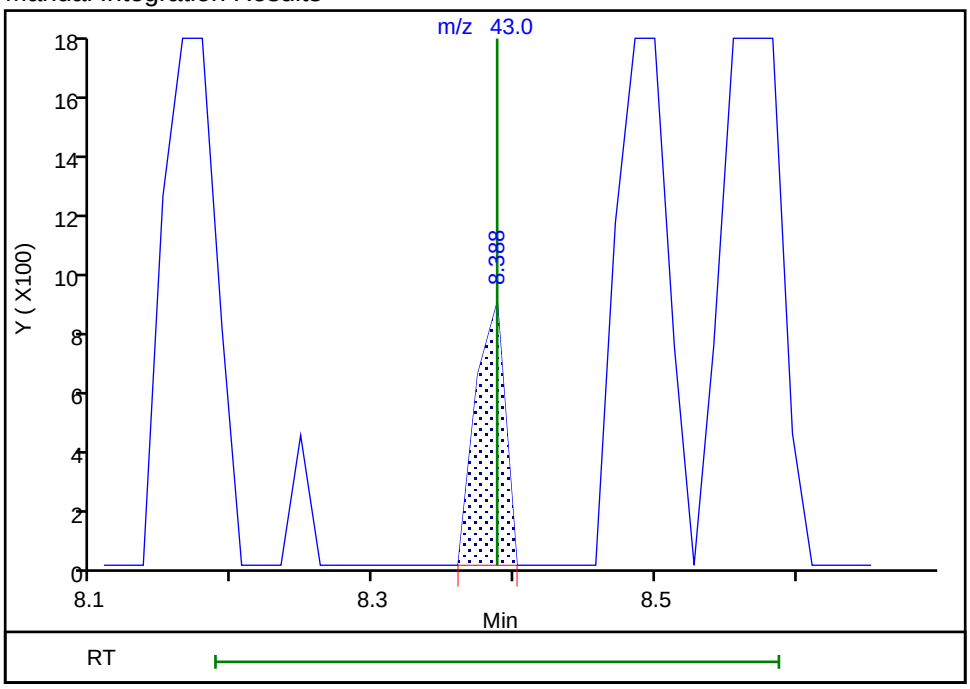
Not Detected
Expected RT: 8.39

Processing Integration Results



Manual Integration Results

RT: 8.39
Area: 1265
Amount: 0.893550
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:02:39
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

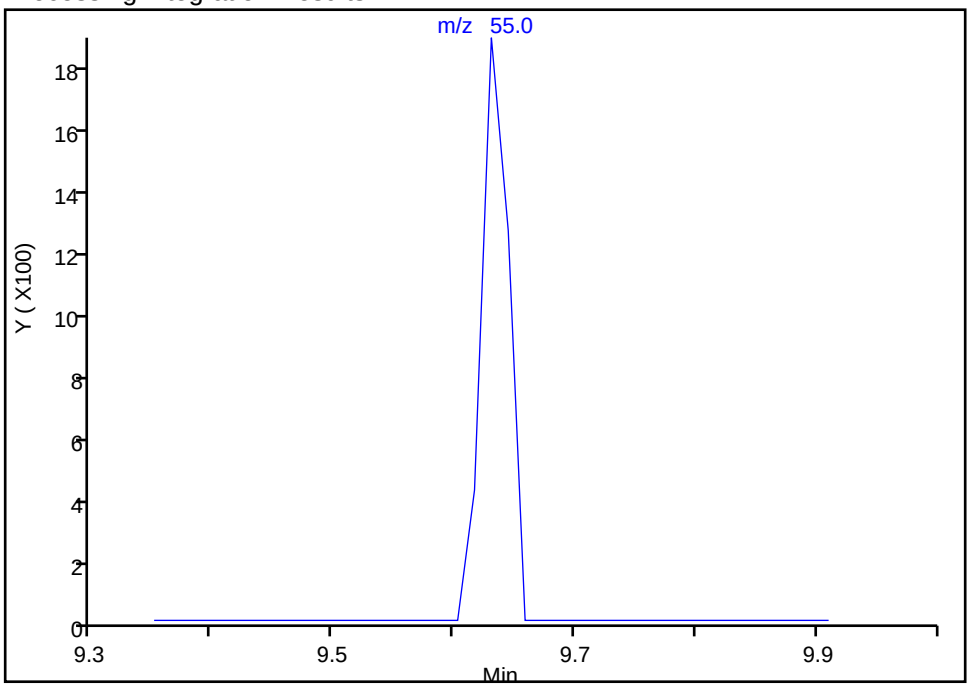
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

124 Ethyl acrylate, CAS: 140-88-5

Signal: 1

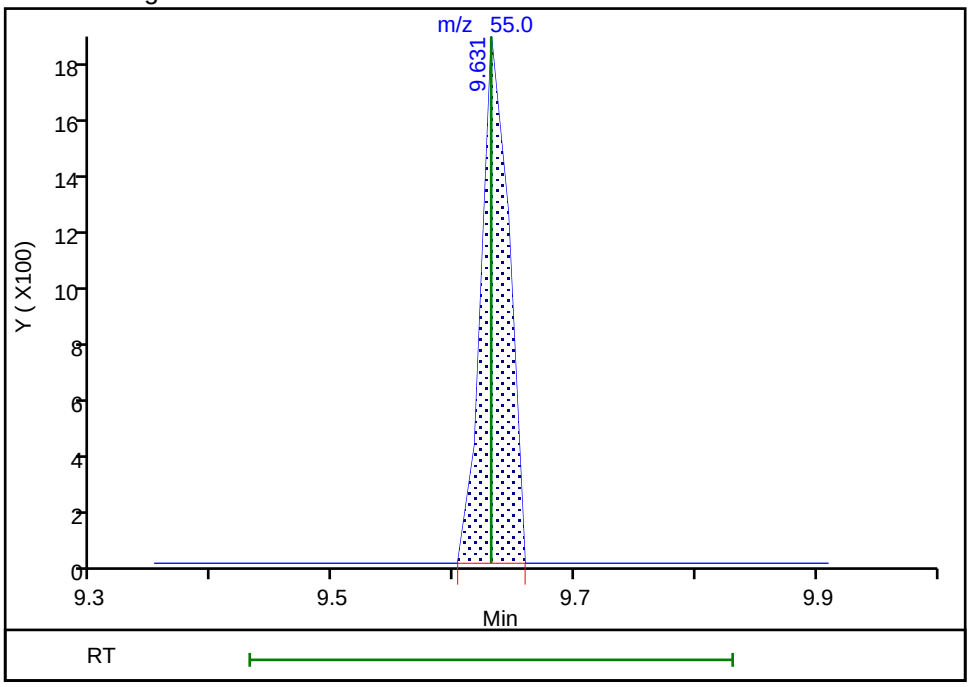
Not Detected
Expected RT: 9.63

Processing Integration Results



Manual Integration Results

RT: 9.63
Area: 2999
Amount: 3.088766
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:02:47
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

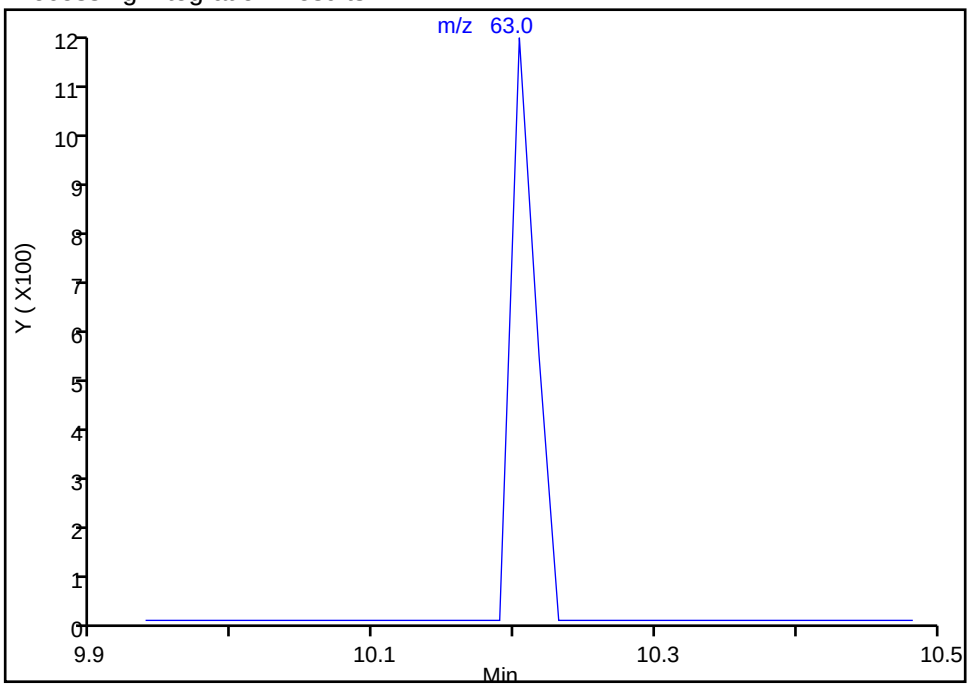
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

60 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

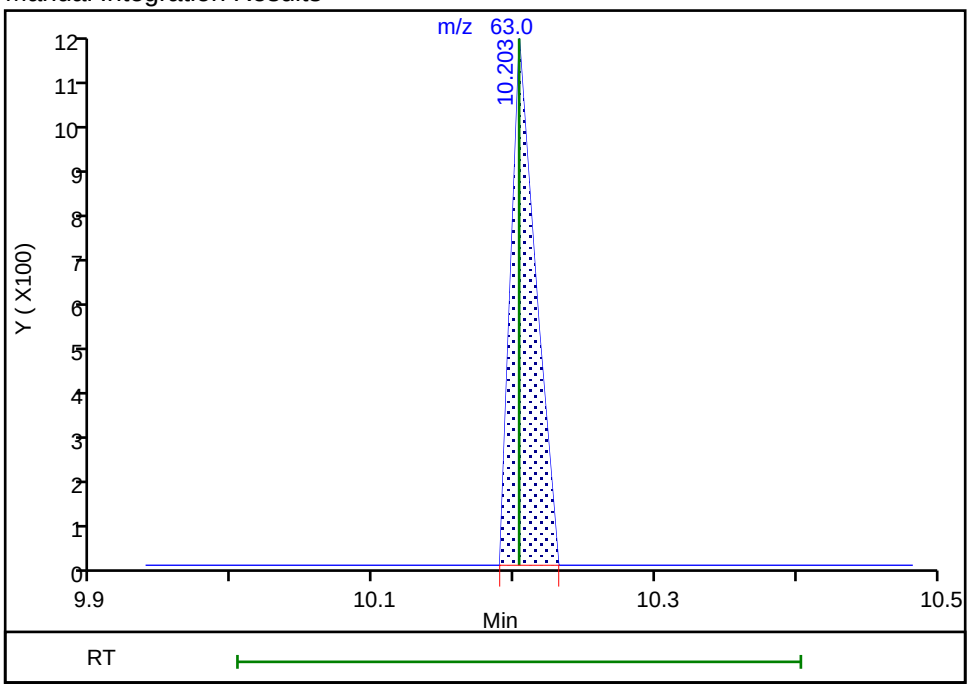
Not Detected
Expected RT: 10.20

Processing Integration Results



Manual Integration Results

RT: 10.20
Area: 1425
Amount: 3.231226
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:02:56
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

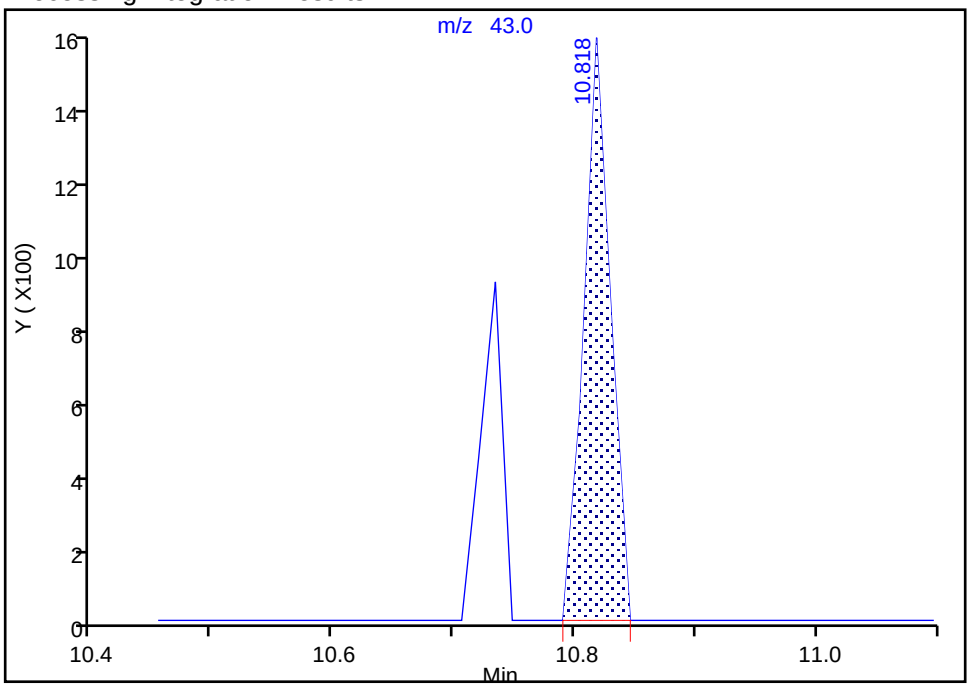
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

64 2-Nitropropane, CAS: 79-46-9

Signal: 1

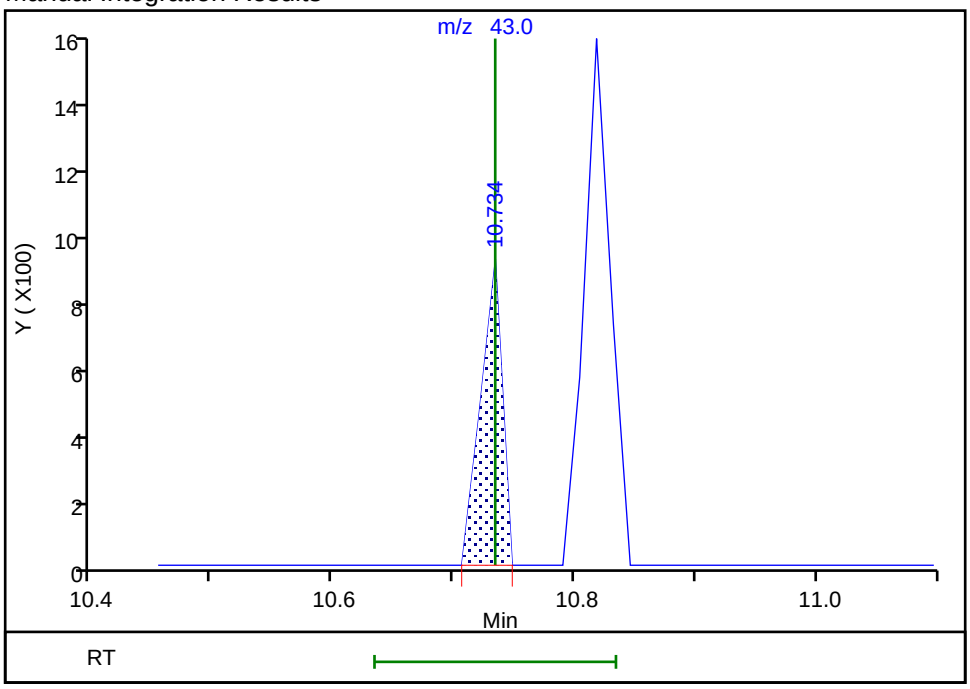
Processing Integration Results

RT: 10.82
Area: 2346
Amount: 2.695098
Amount Units: ug/l



Manual Integration Results

RT: 10.73
Area: 1110
Amount: 4.489446
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:03:10
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

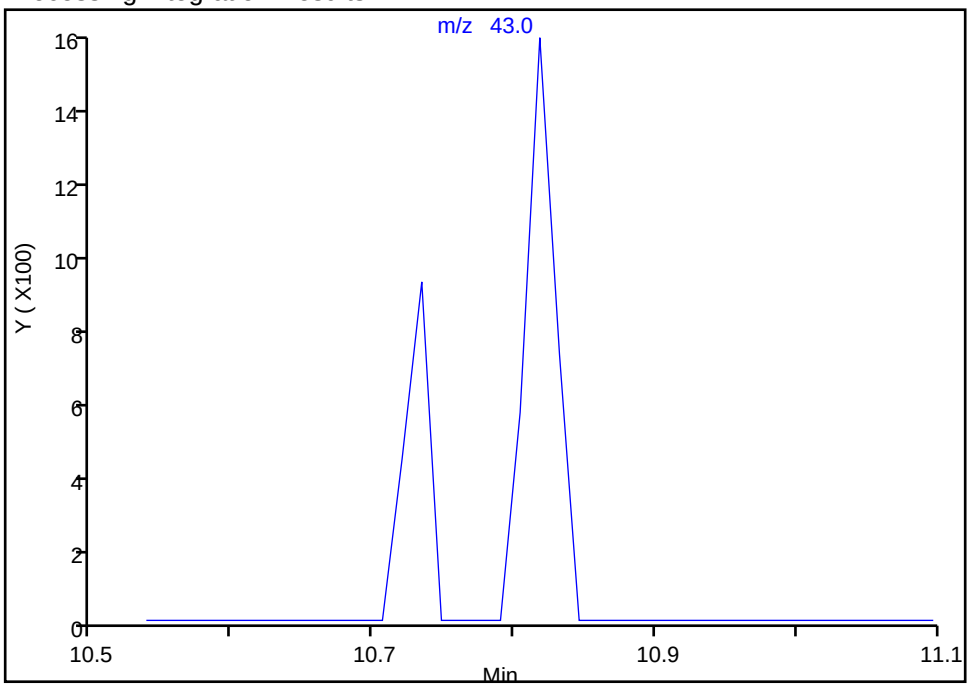
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

66 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

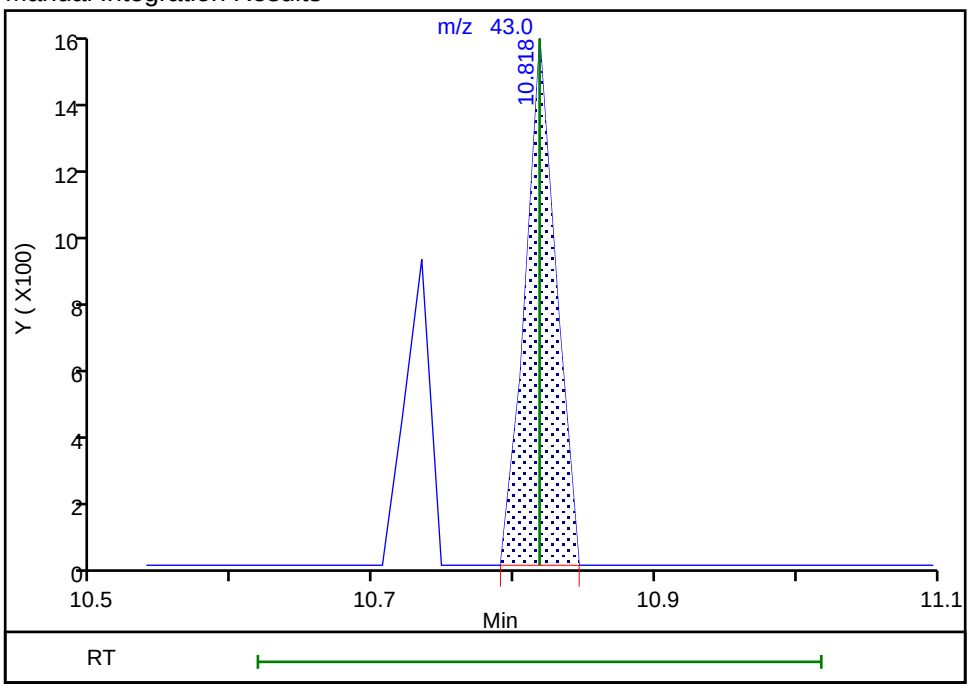
Not Detected
Expected RT: 10.82

Processing Integration Results



Manual Integration Results

RT: 10.82
Area: 2346
Amount: 0.782221
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:03:03
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

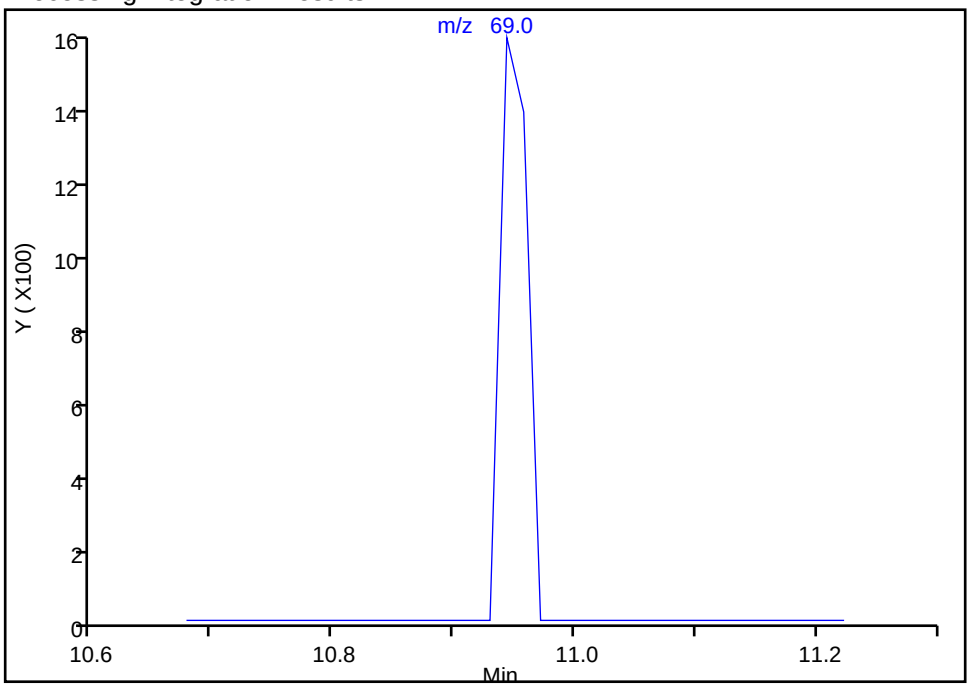
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

69 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

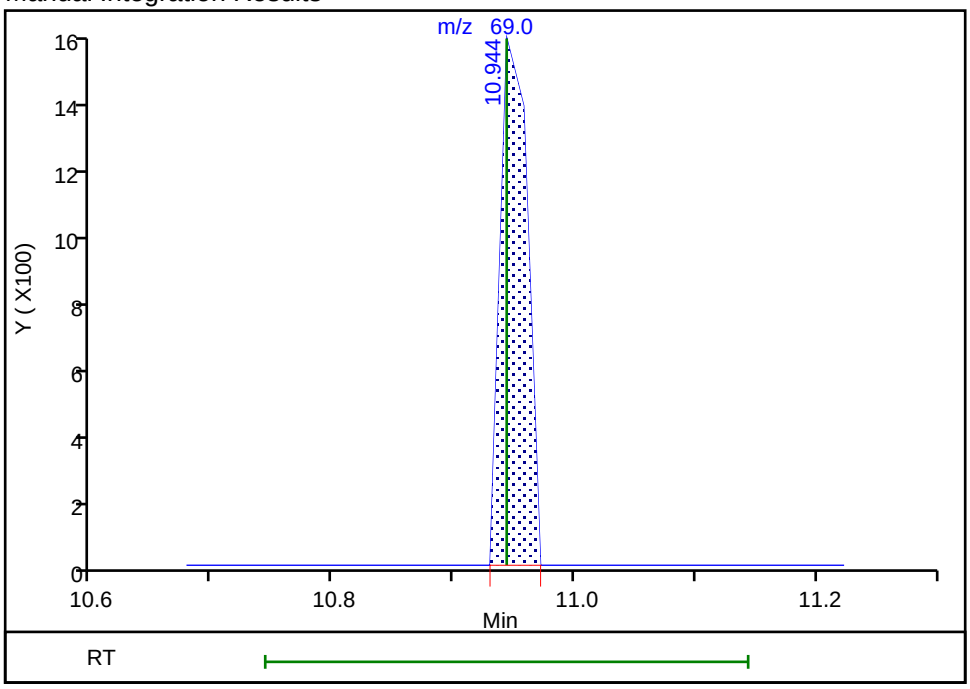
Not Detected
Expected RT: 10.94

Processing Integration Results



Manual Integration Results

RT: 10.94
Area: 2461
Amount: 3.859166
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:03:17
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

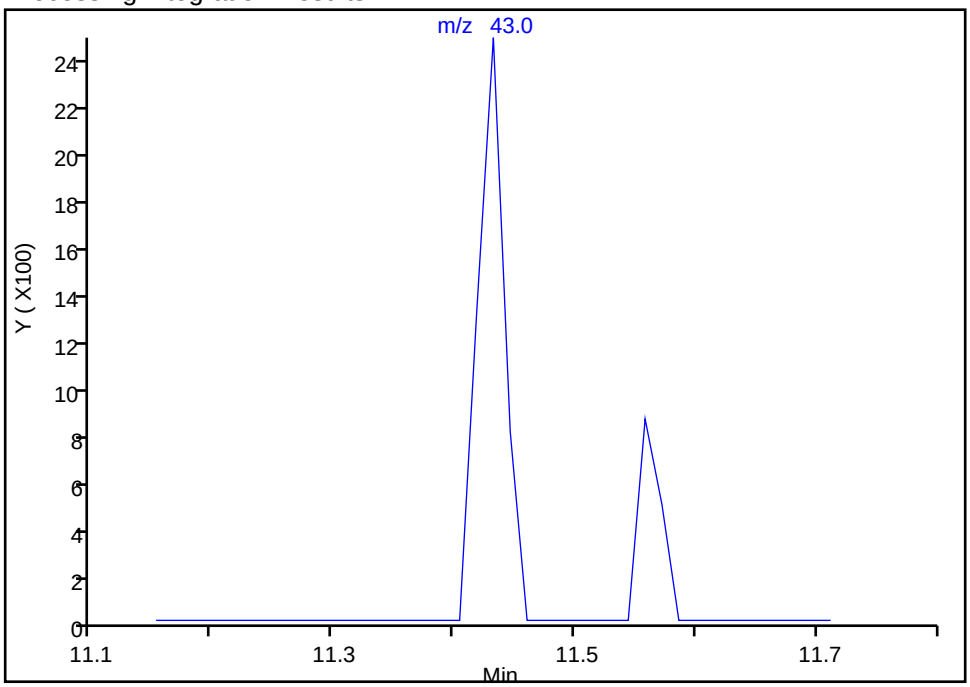
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

119 n-Butyl acetate, CAS: 123-86-4

Signal: 1

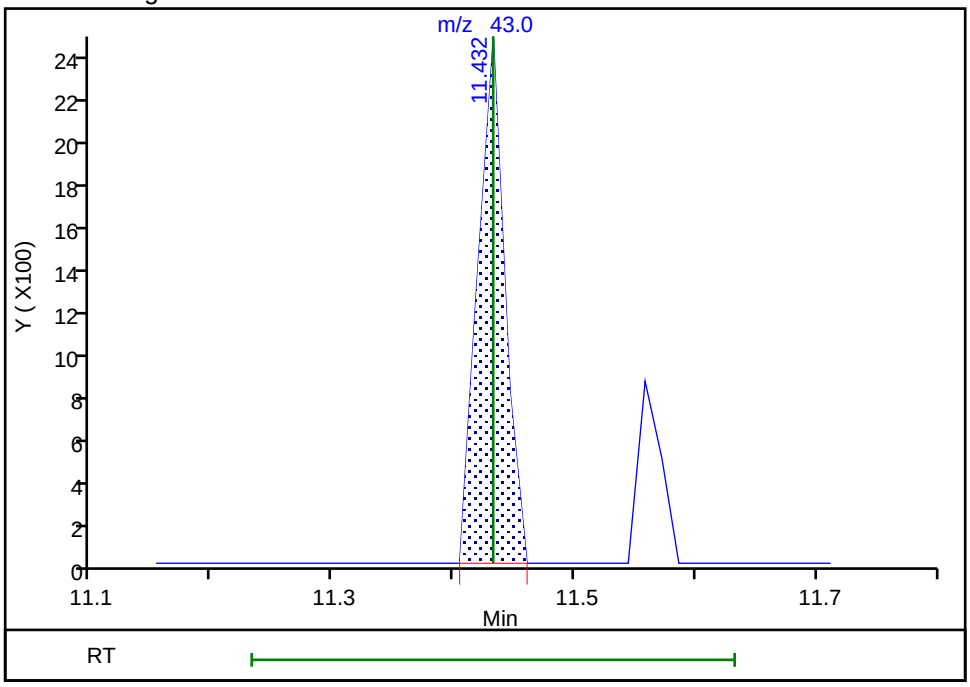
Not Detected
Expected RT: 11.43

Processing Integration Results



Manual Integration Results

RT: 11.43
Area: 3859
Amount: 3.436812
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:03:23
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

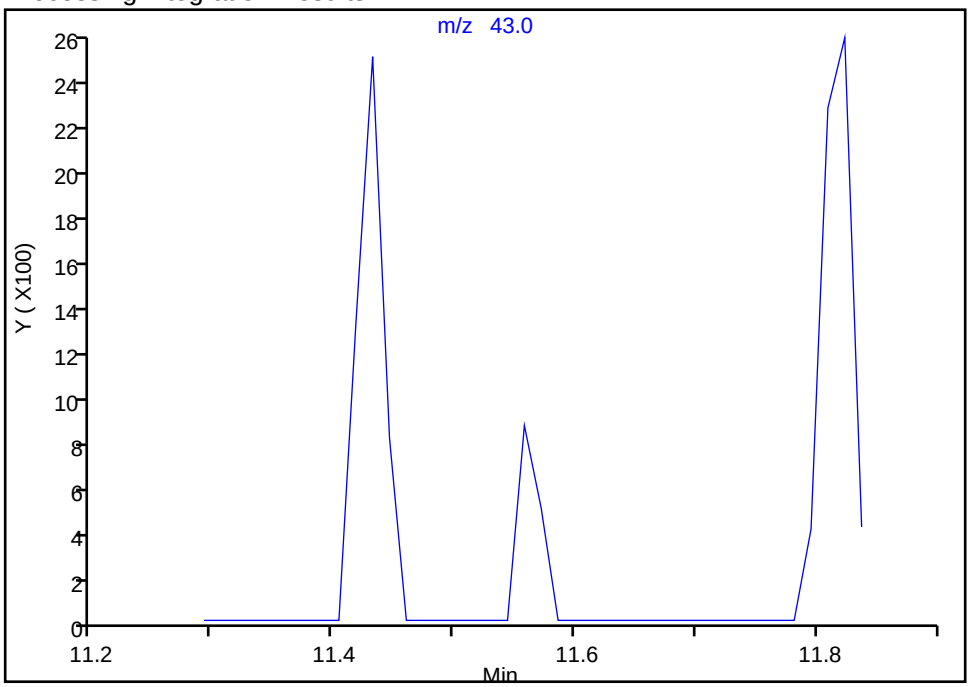
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

74 2-Hexanone, CAS: 591-78-6

Signal: 1

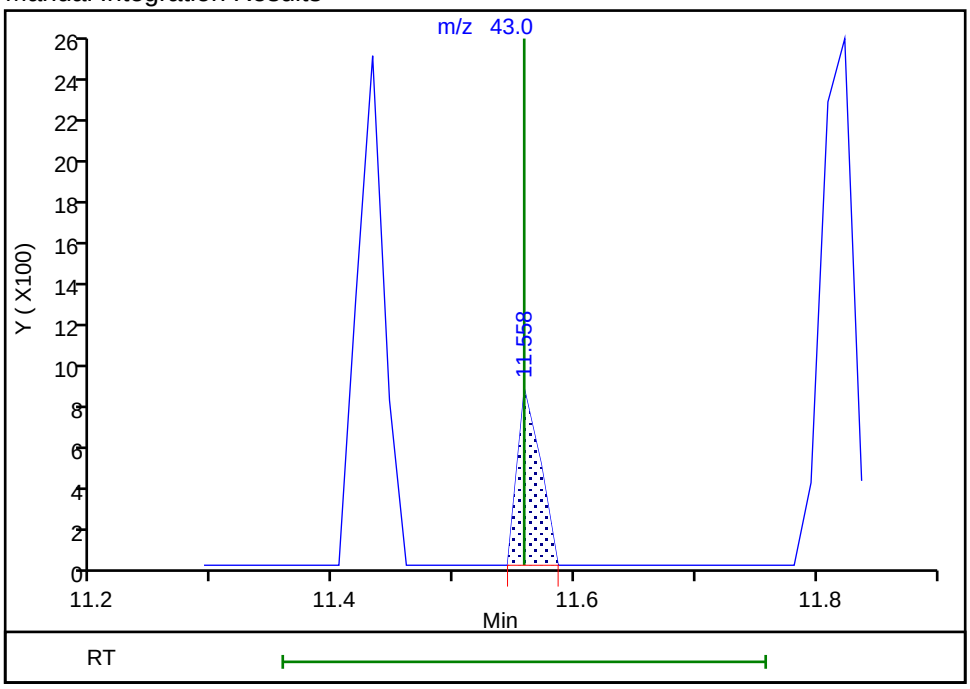
Not Detected
Expected RT: 11.56

Processing Integration Results



Manual Integration Results

RT: 11.56
Area: 1137
Amount: 3.158820
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:03:28
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

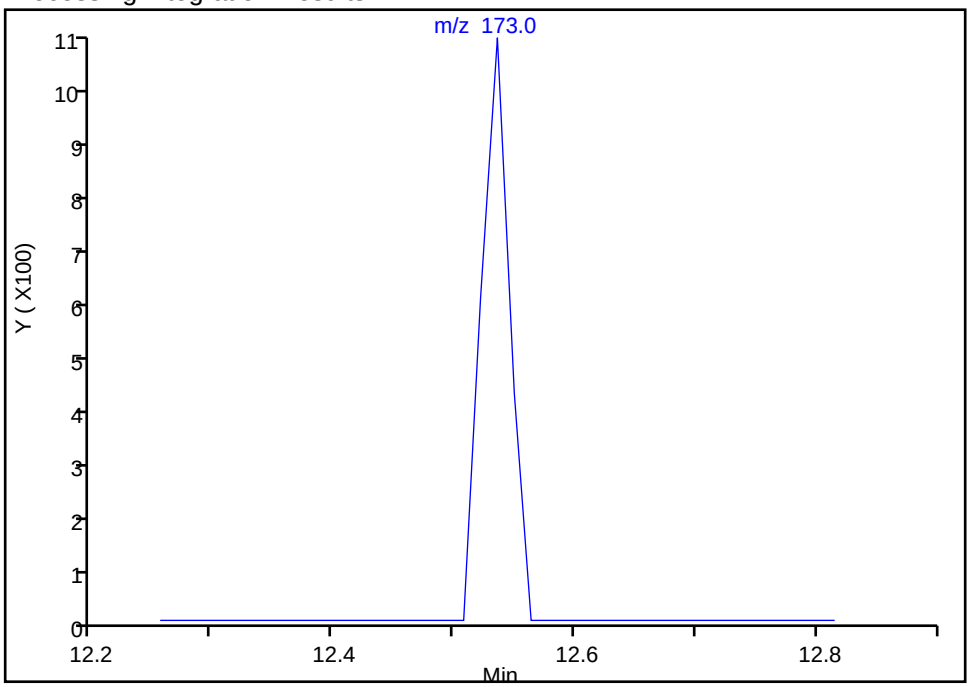
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

84 Bromoform, CAS: 75-25-2

Signal: 1

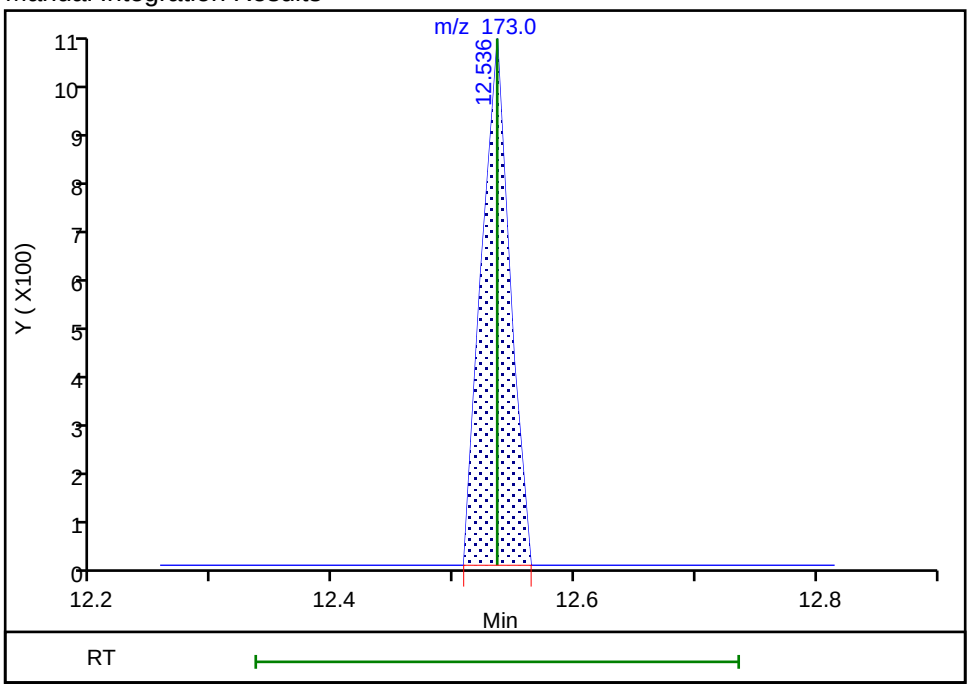
Not Detected
Expected RT: 12.54

Processing Integration Results



Manual Integration Results

RT: 12.54
Area: 1733
Amount: 0.761258
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:03:36
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

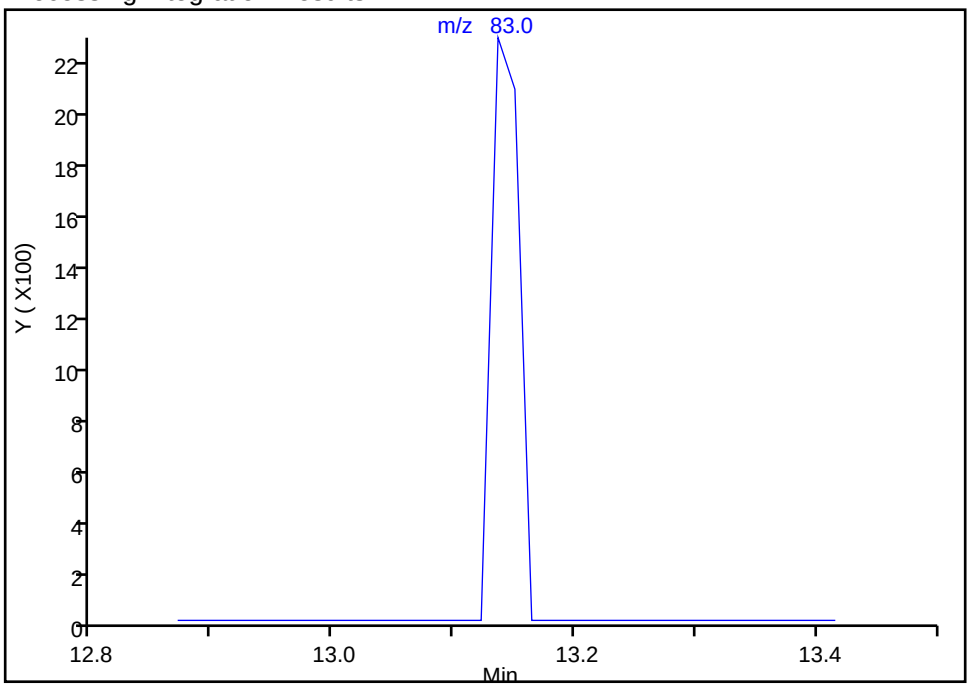
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

89 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

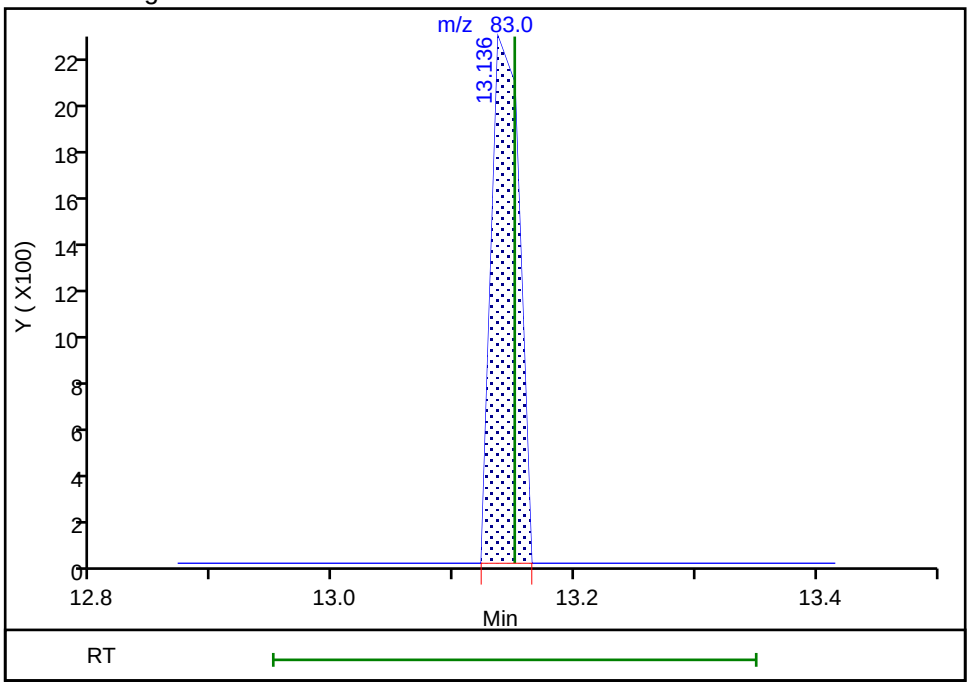
Not Detected
Expected RT: 13.15

Processing Integration Results



Manual Integration Results

RT: 13.14
Area: 3588
Amount: 0.841367
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:03:42
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

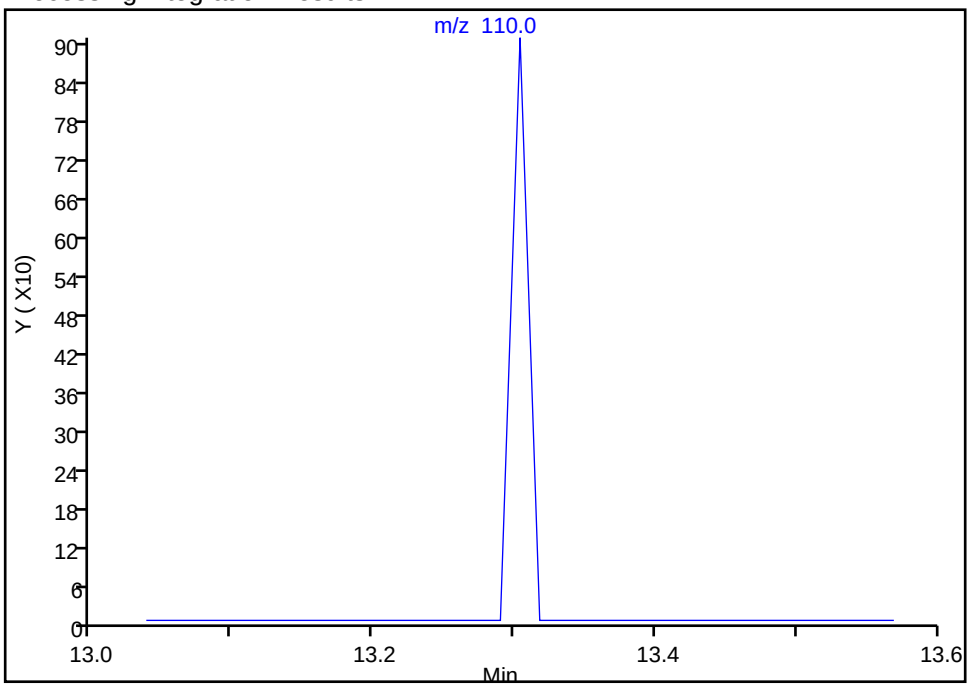
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

92 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

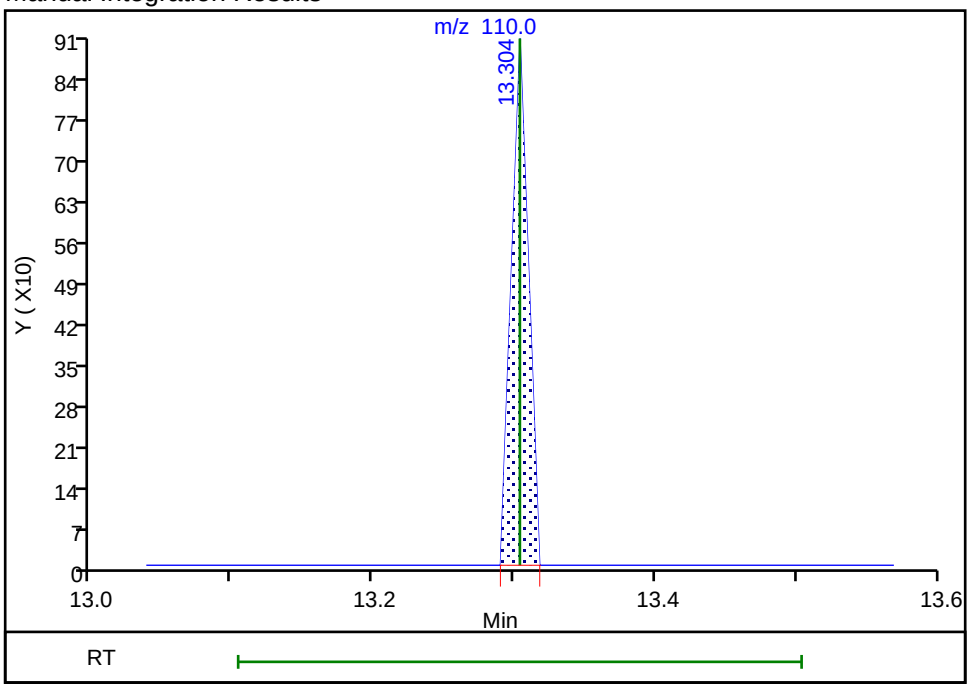
Not Detected
Expected RT: 13.30

Processing Integration Results



Manual Integration Results

RT: 13.30
Area: 758
Amount: 0.626161
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:03:52
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

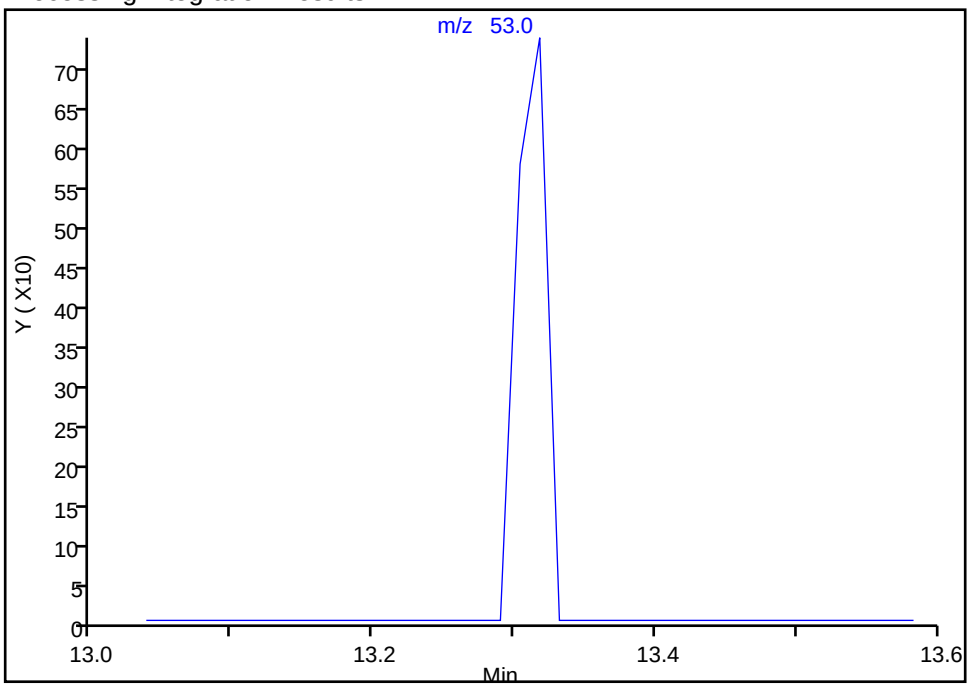
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

93 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

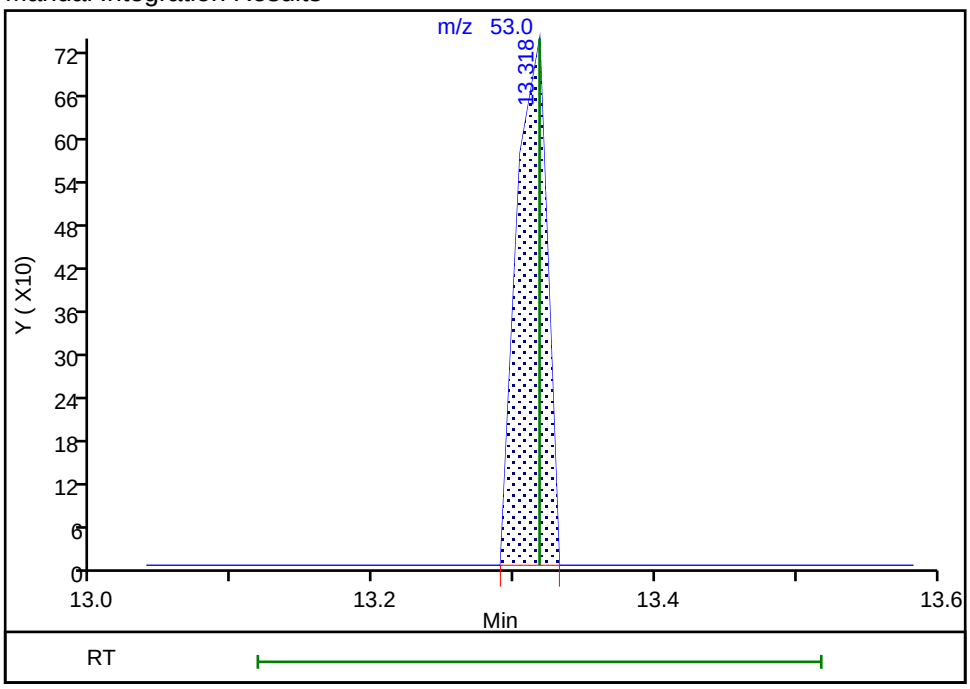
Not Detected
Expected RT: 13.32

Processing Integration Results



Manual Integration Results

RT: 13.32
Area: 1095
Amount: 0.802185
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:03:57
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

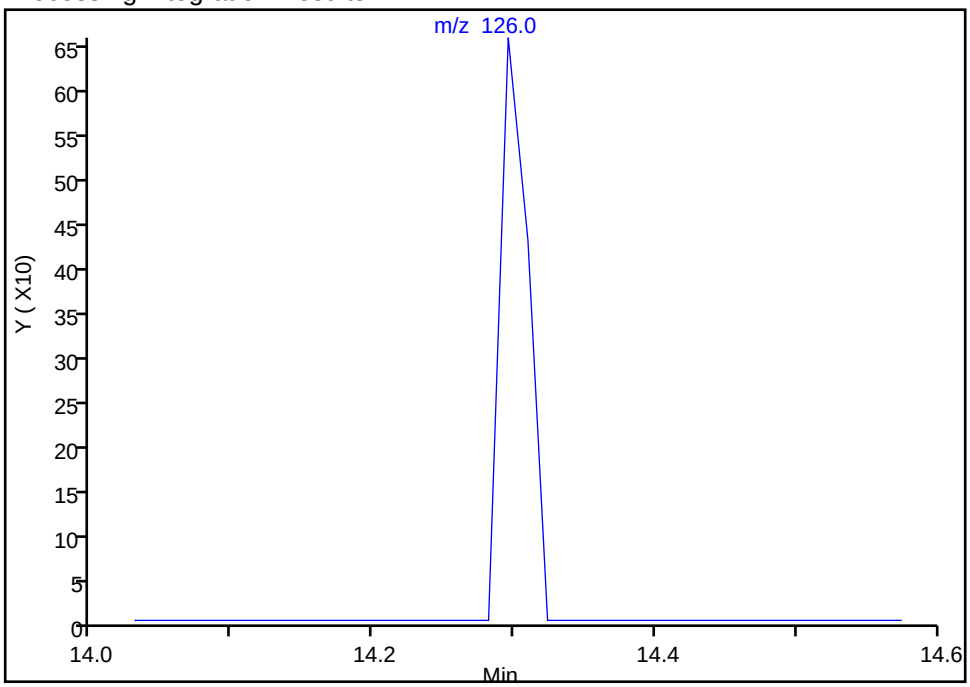
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

121 Benzyl chloride, CAS: 100-44-7

Signal: 1

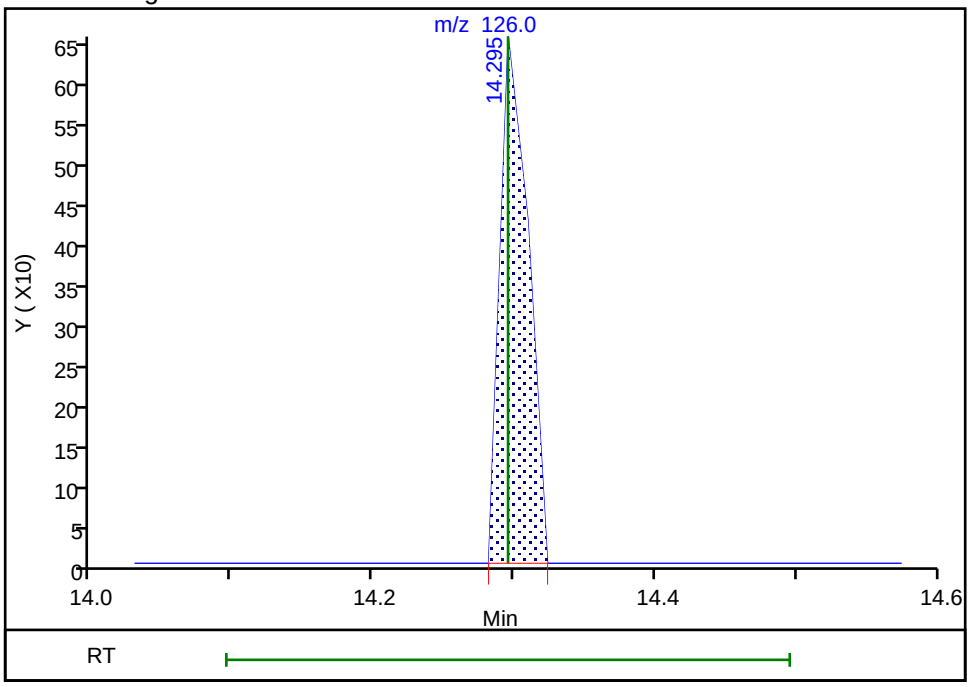
Not Detected
Expected RT: 14.30

Processing Integration Results



Manual Integration Results

RT: 14.30
Area: 906
Amount: 0.623166
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:04:07
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

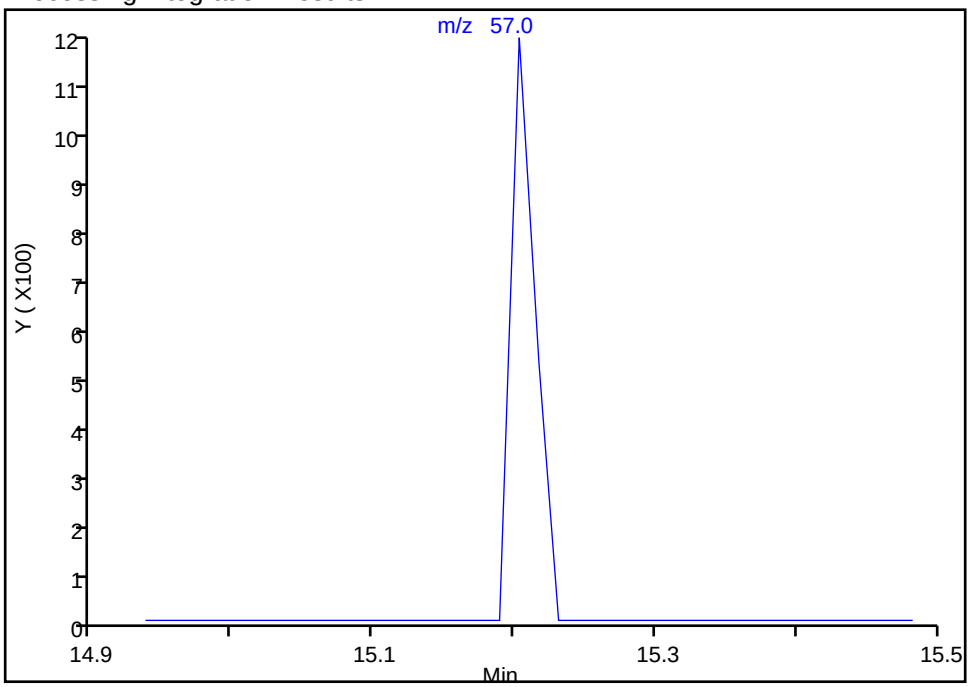
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

106 n-Nonyl Aldehyde, CAS: 124-19-6

Signal: 1

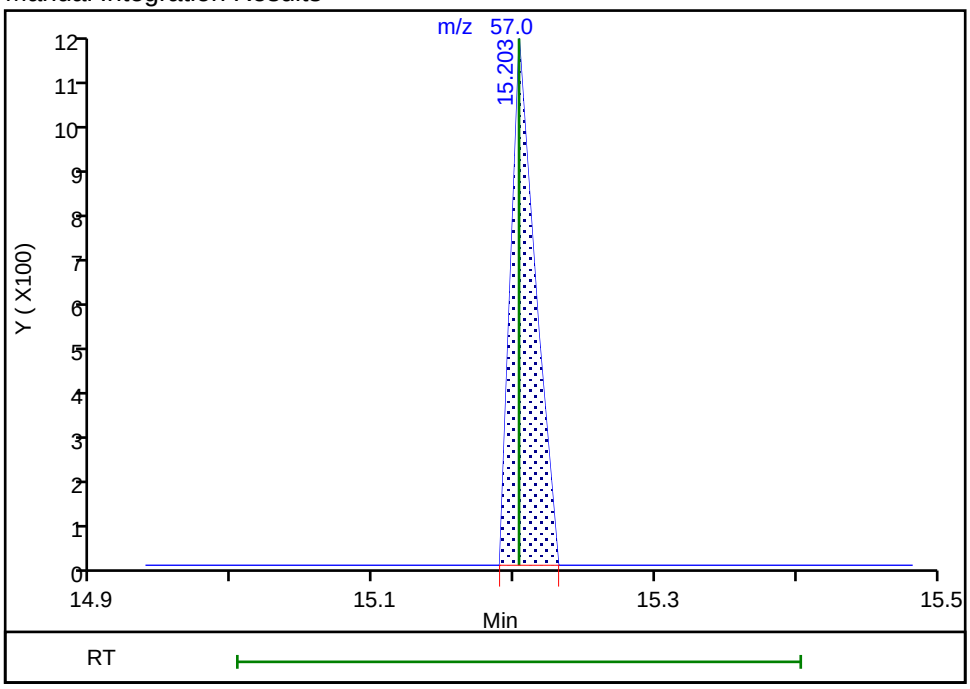
Not Detected
Expected RT: 15.20

Processing Integration Results



Manual Integration Results

RT: 15.20
Area: 1402
Amount: 8.363100
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:04:15
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

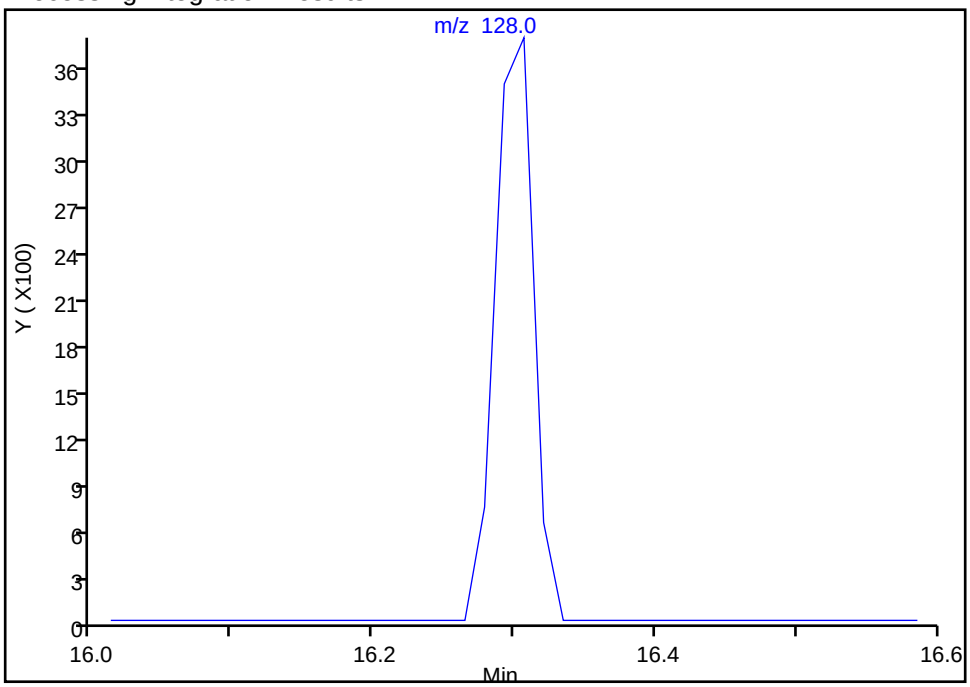
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4770.D
Injection Date: 23-May-2019 11:32:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

110 Naphthalene, CAS: 91-20-3

Signal: 1

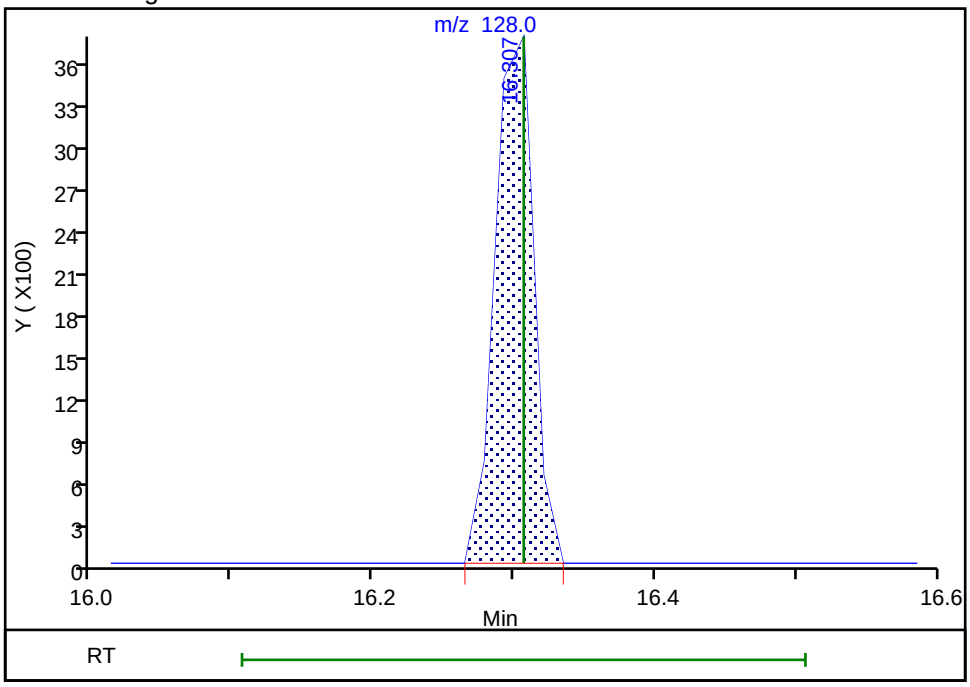
Not Detected
Expected RT: 16.31

Processing Integration Results



Manual Integration Results

RT: 16.31
Area: 7265
Amount: 0.842422
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:04:22
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4771.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-May-2019 11:57:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015160-005
Misc. Info.: IC
Operator ID: KA Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 28-May-2019 11:55:06 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0324

First Level Reviewer: aguk Date: 28-May-2019 11:06:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	31321	2.50	3.17	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	96	10137	2.50	2.50	
3 Chloromethane	50	3.500	3.499	0.001	99	34038	2.50	2.98	
4 Vinyl chloride	62	3.667	3.667	0.000	98	28595	2.50	2.73	
122 Butadiene	39	3.695	3.695	0.000	91	27958	2.50	2.88	
5 Bromomethane	94	4.268	4.268	0.000	89	13184	2.50	2.90	
6 Chloroethane	64	4.491	4.477	0.014	99	16962	2.50	2.93	
7 Trichlorofluoromethane	101	4.729	4.714	0.015	98	35738	2.50	2.83	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	97	39867	2.50	2.78	
8 Ethyl ether	74	5.231	5.231	0.000	92	7519	2.50	2.40	
11 Ethanol	45	5.455	5.469	-0.014	91	3278	100.0	96.8	
9 1,1-Dichloroethene	96	5.525	5.525	0.000	96	16588	2.50	2.54	
12 1,1,2-Trichloro-1,2,2-trif	151	5.581	5.580	0.001	93	15143	2.50	2.79	
10 Carbon disulfide	76	5.581	5.580	0.001	100	69200	2.50	2.65	
13 Iodomethane	142	5.748	5.748	0.000	93	4454	2.50	5.18	a
S 26 1,2-Dichloroethene, Total	96				0			5.28	
14 Acrolein	56	6.014	6.013	0.001	96	3241	12.5	11.7	
15 3-Chloro-1-propene	39	6.181	6.181	0.000	90	21708	2.50	2.54	
16 Isopropyl alcohol	45	6.209	6.209	0.000	95	4585	25.0	22.5	
17 Methylene Chloride	84	6.335	6.335	0.000	97	17823	2.50	2.73	
18 Acetone	43	6.391	6.390	0.001	92	2771	2.50	2.84	a
19 trans-1,2-Dichloroethene	96	6.530	6.530	0.000	95	19773	2.50	2.66	
20 Methyl acetate	74	6.530	6.530	0.000	98	2283	12.5	11.0	
21 Hexane	86	6.600	6.600	0.000	92	5592	2.50	2.16	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	88	32127	2.50	2.33	
23 2-Methyl-2-propanol	59	6.754	6.740	0.014	96	7300	25.0	22.1	
24 Acetonitrile	41	6.977	6.963	0.014	98	9446	25.0	26.4	
25 Isopropyl ether	45	7.061	7.061	0.000	90	46641	2.50	2.23	
27 2-Chloro-1,3-butadiene	53	7.215	7.214	0.001	92	27527	2.50	2.18	
28 1,1-Dichloroethane	63	7.243	7.242	0.001	96	38416	2.50	2.63	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.312	7.312	0.000	99	29710	25.0	24.6	
30 Tert-butyl ethyl ether	59	7.452	7.466	-0.014	96	39813	2.50	2.18	
31 Vinyl acetate	43	7.494	7.494	0.000	97	21286	2.50	2.32	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	81	18914	2.50	2.63	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	93	32171	2.50	2.63	
34 Cyclohexane	84	8.025	8.024	0.001	92	30871	2.50	2.29	
35 Chlorobromomethane	128	8.025	8.024	0.001	58	5714	2.50	2.52	
36 Chloroform	83	8.081	8.080	0.001	94	33542	2.50	2.68	
39 Ethyl acetate	45	8.164	8.164	0.000	87	1806	5.00	3.72	
37 Carbon tetrachloride	117	8.234	8.234	0.000	97	25165	2.50	2.56	
38 Tetrahydrofuran	71	8.248	8.248	0.000	76	1359	5.00	3.80	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	95	13115	2.50	2.44	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	97	30987	2.50	2.58	
43 2-Butanone (MEK)	43	8.388	8.388	0.000	98	3685	2.50	2.55	
42 1,1-Dichloropropene	75	8.416	8.416	0.000	95	27381	2.50	2.37	
125 Isooctane	57	8.486	8.485	0.001	96	84770	2.50	2.25	
117 n-Heptane	43	8.569	8.569	0.000	90	35531	2.50	2.23	
44 Benzene	78	8.667	8.667	0.000	96	85188	2.50	2.65	
45 Propionitrile	54	8.695	8.695	0.000	91	12069	25.0	24.9	
46 Methacrylonitrile	41	8.709	8.709	0.000	94	58028	25.0	24.6	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	94	34592	2.50	2.24	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	16634	2.50	2.65	
50 Isobutyl alcohol	42	8.793	8.793	0.000	56	4705	62.5	51.5	
49 1,2-Dichloroethane	62	8.863	8.862	0.001	97	20122	2.50	2.72	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1436916	50.0	50.0	
53 Trichloroethene	95	9.198	9.198	0.000	66	21714	2.50	2.69	
52 Methylcyclohexane	55	9.198	9.198	0.000	92	34514	2.50	2.55	
54 n-Butanol	56	9.421	9.421	0.000	92	4105	62.5	100.3	
55 Dibromomethane	93	9.603	9.603	0.000	95	6915	2.50	2.64	
124 Ethyl acrylate	55	9.631	9.631	0.000	95	8766	2.50	4.23	
56 1,2-Dichloropropane	63	9.701	9.700	0.001	93	18439	2.50	2.55	
57 Dichlorobromomethane	83	9.729	9.728	0.001	97	18725	2.50	2.36	
58 Methyl methacrylate	69	9.812	9.826	-0.014	91	9597	5.00	8.11	
59 1,4-Dioxane	88	9.910	9.910	0.000	22	950	50.0	72.9	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	89	4117	2.50	4.16	a
61 cis-1,3-Dichloropropene	75	10.301	10.301	0.000	93	21302	2.50	2.20	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	59027	2.50	2.31	
63 Toluene	92	10.511	10.510	0.001	98	45375	2.50	2.40	
64 2-Nitropropane	43	10.734	10.734	0.000	94	3391	5.00	7.17	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	95	6334	2.50	2.07	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	94	17123	2.50	2.17	
65 Tetrachloroethene	164	10.874	10.874	0.000	96	16588	2.50	2.67	
69 Ethyl methacrylate	69	10.944	10.943	0.001	86	8590	2.50	4.83	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	92	8465	2.50	2.46	
70 Chlorodibromomethane	129	11.209	11.209	0.000	88	8553	2.50	2.25	
71 1,3-Dichloropropane	76	11.279	11.293	-0.014	93	19256	2.50	2.51	
119 n-Butyl acetate	43	11.432	11.432	0.000	94	9650	2.50	4.33	
72 Ethylene Dibromide	107	11.446	11.446	0.000	94	8408	2.50	2.47	
74 2-Hexanone	43	11.558	11.558	0.000	95	4092	2.50	4.39	a
S 73 1,3-Dichloropropene, Total	75				0			4.37	
75 1-Chlorohexane	91	11.823	11.823	0.000	92	22802	2.50	1.99	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	92	878849	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.893	11.893	0.000	87	94152	2.50	2.55	
77 Chlorobenzene	112	11.907	11.907	0.000	92	50482	2.50	2.80	
79 1,1,1,2-Tetrachloroethane	131	11.949	11.949	0.000	92	13368	2.50	2.57	
80 m-Xylene & p-Xylene	106	12.005	12.019	-0.014	99	30540	2.50	2.30	
82 o-Xylene	106	12.424	12.424	0.000	98	24692	2.50	2.13	
83 Styrene	104	12.466	12.466	0.000	93	33446	2.50	1.94	
84 Bromoform	173	12.536	12.536	0.000	91	4723	2.50	2.06	
85 Isopropylbenzene	105	12.689	12.689	0.000	97	69588	2.50	2.08	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.996	0.001	88	18850	2.50	2.25	
88 N-Propylbenzene	91	13.080	13.080	0.000	99	90574	2.50	2.13	
87 Bromobenzene	156	13.122	13.122	0.000	97	16338	2.50	2.49	
89 1,1,2,2-Tetrachloroethane	83	13.136	13.150	-0.014	95	10785	2.50	2.51	
91 1,3,5-Trimethylbenzene	105	13.248	13.248	0.000	93	52849	2.50	1.99	
90 2-Chlorotoluene	91	13.262	13.262	0.000	93	64667	2.50	2.34	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	88	3169	2.50	2.60	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	75	3138	2.50	2.28	
94 Cyclohexanone	55	13.388	13.388	0.000	16	1601	25.0	33.6	
95 4-Chlorotoluene	91	13.416	13.415	0.001	98	55611	2.50	2.28	
96 tert-Butylbenzene	119	13.569	13.569	0.000	94	49434	2.50	2.10	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	99	53531	2.50	2.03	
98 sec-Butylbenzene	105	13.737	13.737	0.000	95	82040	2.50	2.16	
99 4-Isopropyltoluene	119	13.849	13.848	0.001	97	61366	2.50	2.05	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	96	33242	2.50	2.50	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	54	61852	2.50	2.41	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	413566	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	92	36698	2.50	2.78	
103 n-Butylbenzene	134	14.268	14.267	0.001	99	15067	2.50	2.14	
121 Benzyl chloride	126	14.295	14.295	0.000	88	3122	2.50	2.13	a
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	94	29998	2.50	2.62	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	82	4036	2.50	9.04	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	1	1264	2.50	1.99	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	96	27530	2.50	2.60	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	94	18983	2.50	2.69	
109 1,2,4-Trichlorobenzene	180	15.944	15.943	0.001	94	18835	2.50	2.43	
110 Naphthalene	128	16.307	16.306	0.001	98	19453	2.50	2.24	
S 112 Xylenes, Total	106				0			4.43	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	93	15909	2.50	2.52	
S 113 Trihalomethanes, Total	1				0			9.35	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

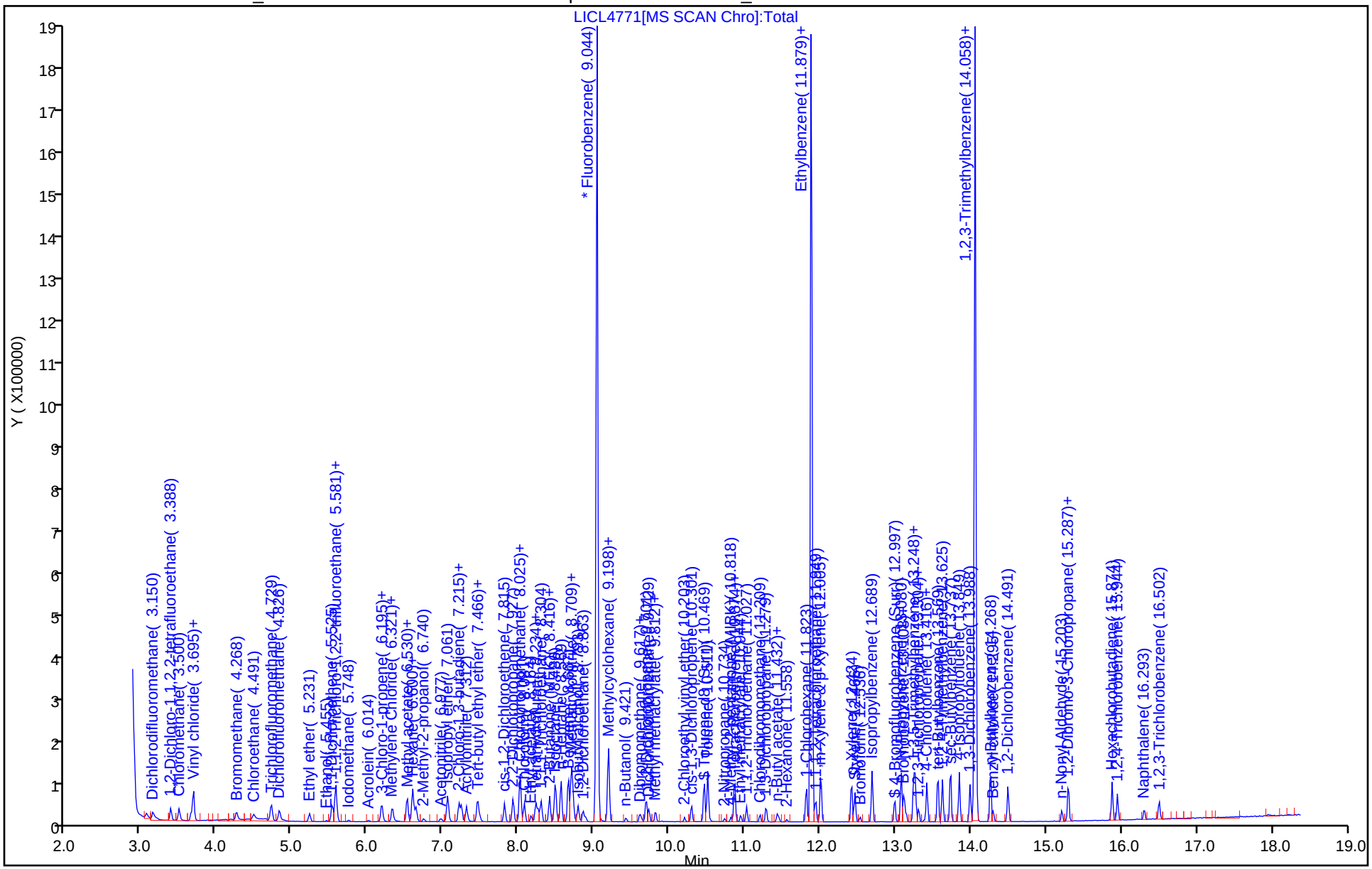
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8260 Surr 25_00099	Amount Added: 0.50	Units: uL	
I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 28-May-2019 11:55:07 Chrom Revision: 2.3 03-May-2019 15:52:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4771.D

Injection Date:	23-May-2019 11:57:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

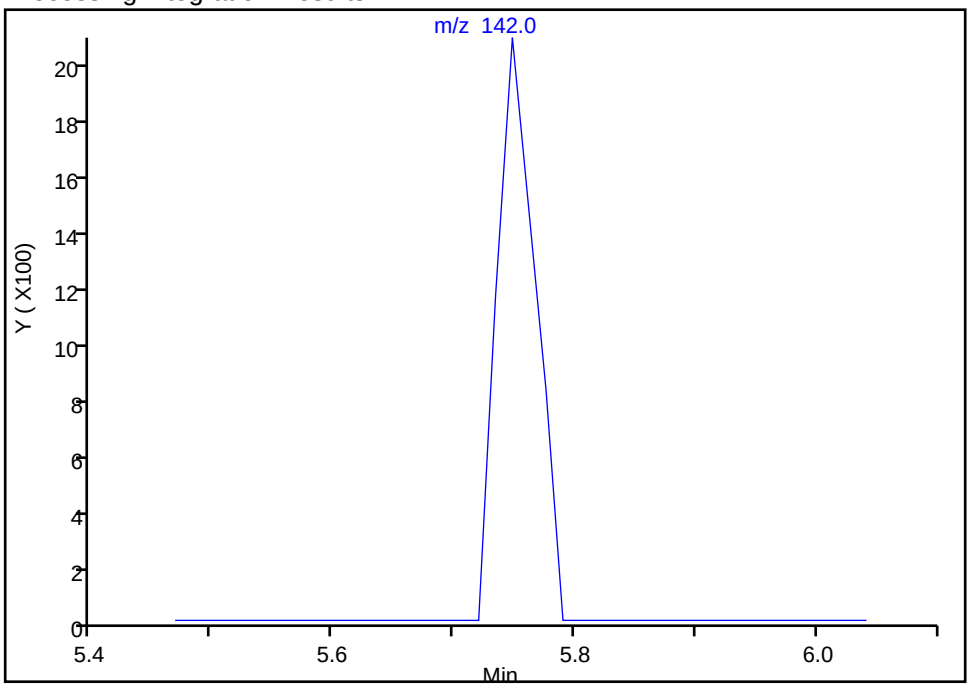
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Injection Date: 23-May-2019 11:57:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

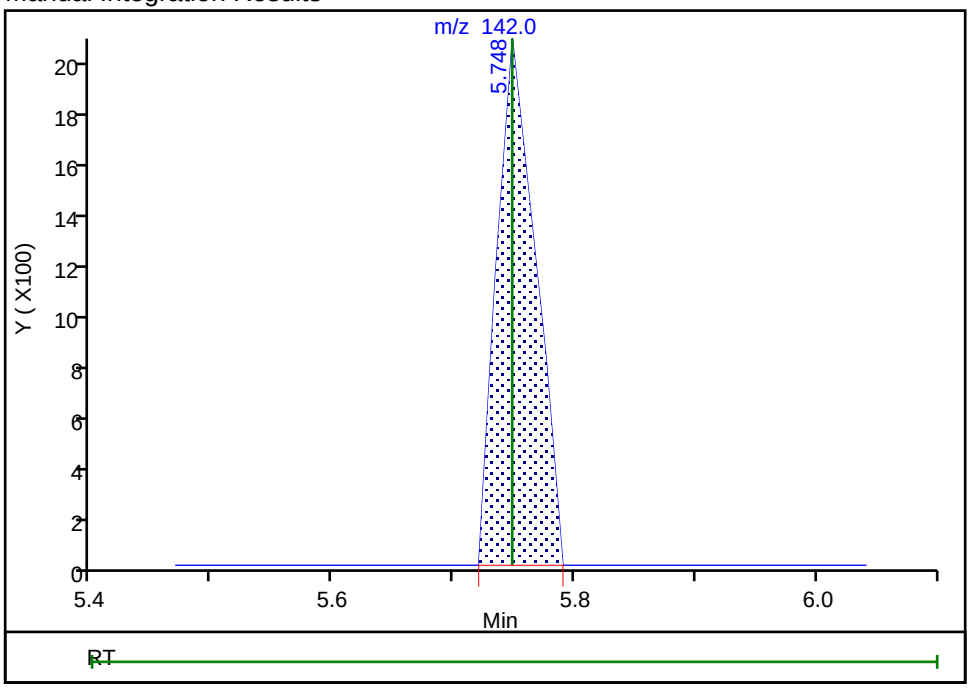
Not Detected
Expected RT: 5.75

Processing Integration Results



Manual Integration Results

RT: 5.75
Area: 4454
Amount: 5.182895
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:04:40
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

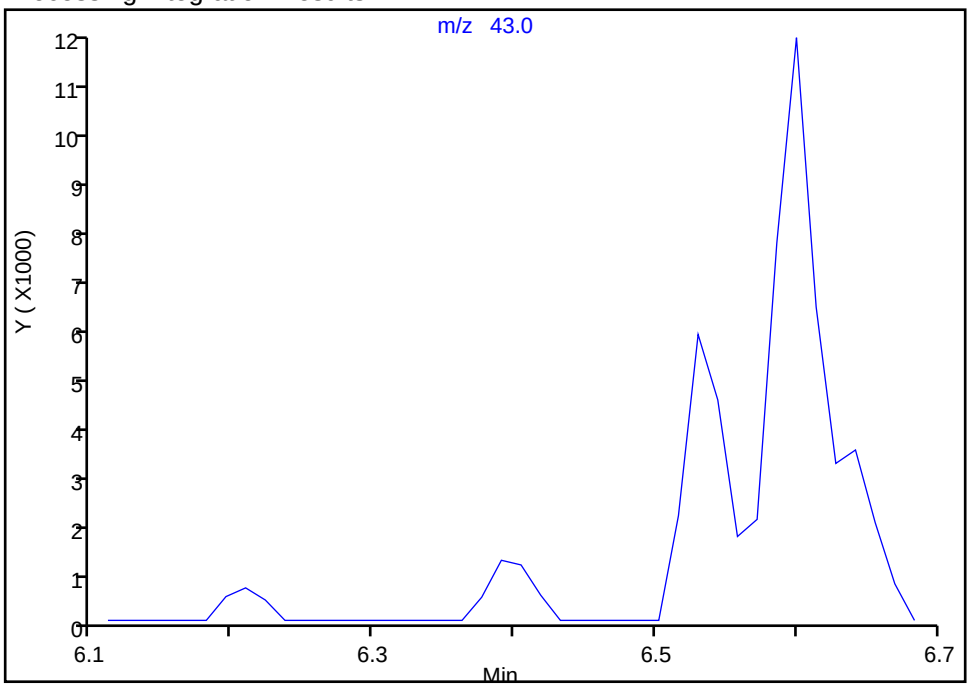
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Injection Date: 23-May-2019 11:57:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

18 Acetone, CAS: 67-64-1

Signal: 1

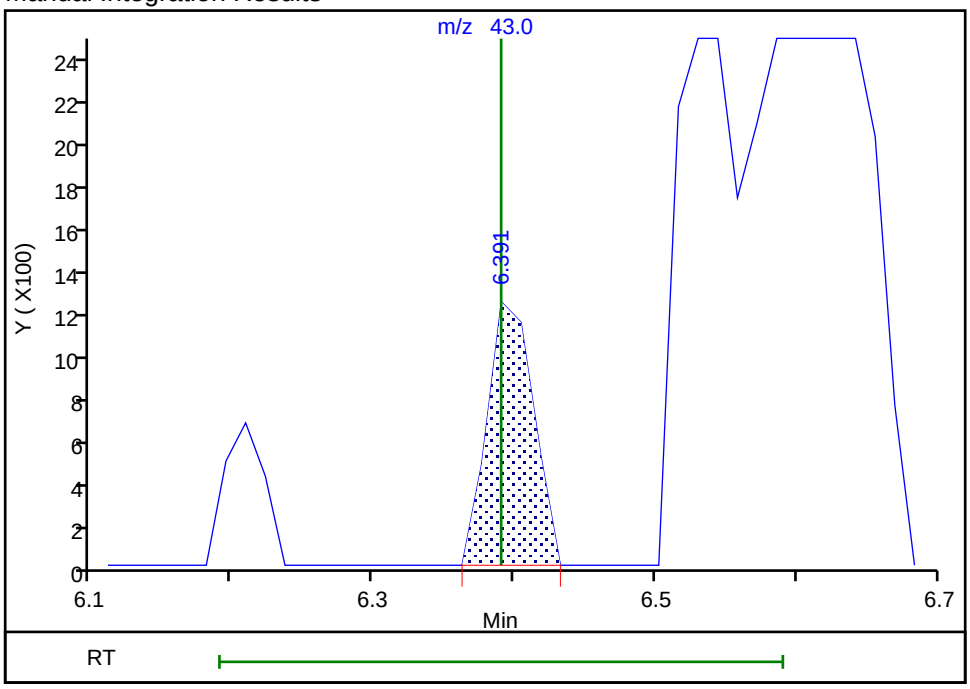
Not Detected
Expected RT: 6.39

Processing Integration Results



Manual Integration Results

RT: 6.39
Area: 2771
Amount: 2.836069
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:05:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

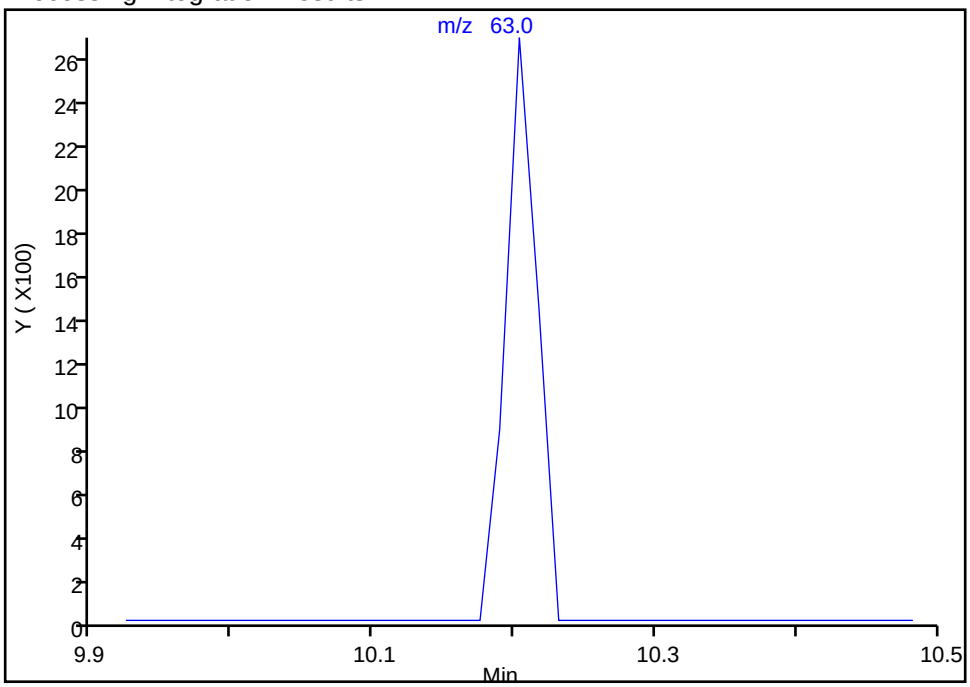
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Injection Date: 23-May-2019 11:57:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

60 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

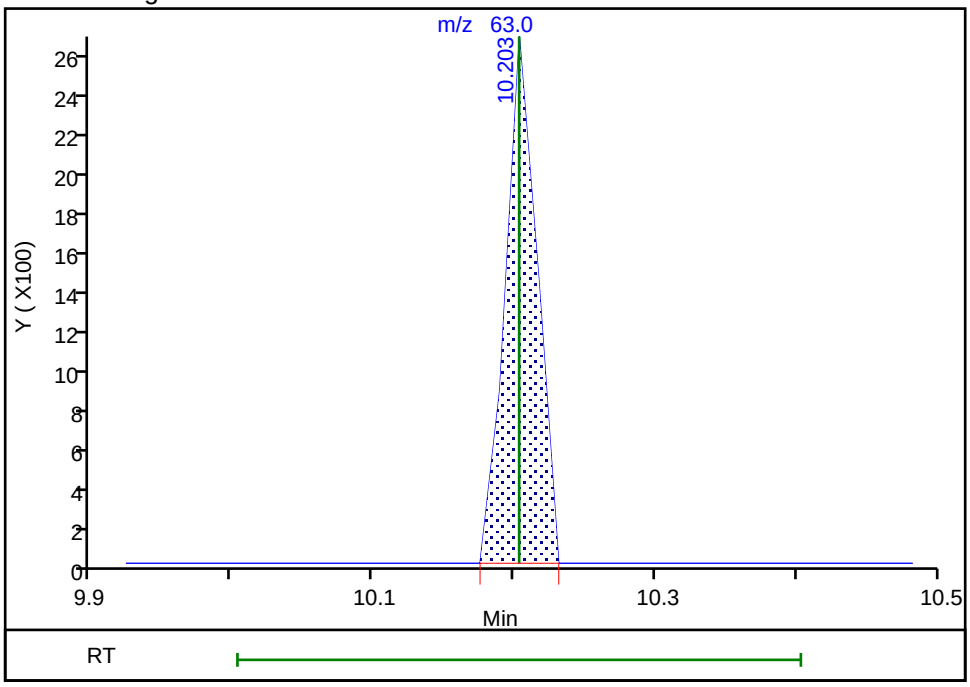
Not Detected
Expected RT: 10.20

Processing Integration Results



Manual Integration Results

RT: 10.20
Area: 4117
Amount: 4.163337
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:05:41
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

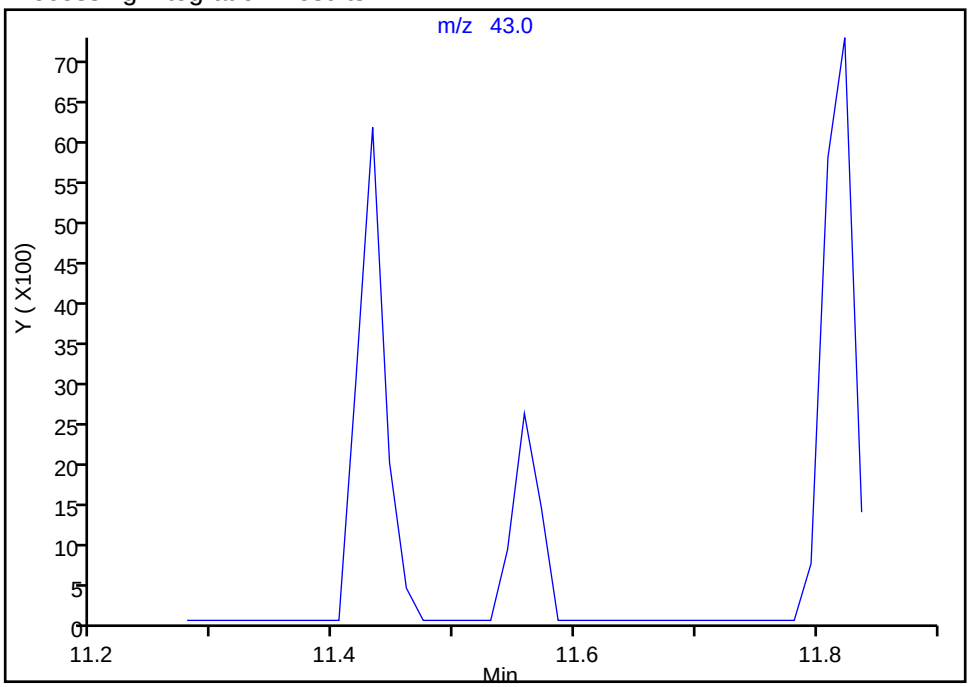
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Injection Date: 23-May-2019 11:57:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

74 2-Hexanone, CAS: 591-78-6

Signal: 1

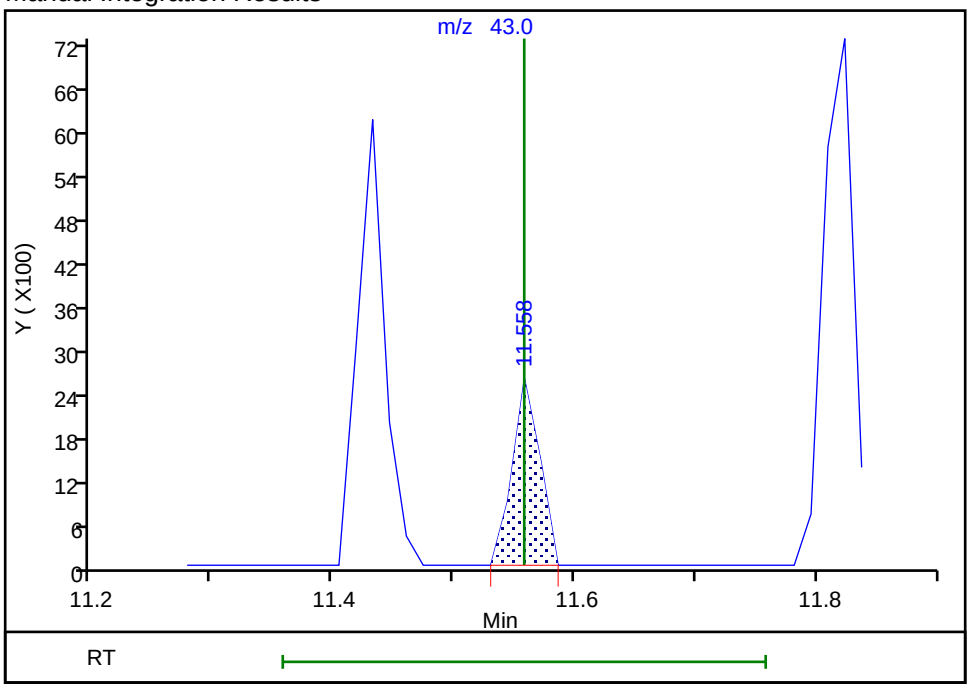
Not Detected
Expected RT: 11.56

Processing Integration Results



Manual Integration Results

RT: 11.56
Area: 4092
Amount: 4.387613
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:05:49
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

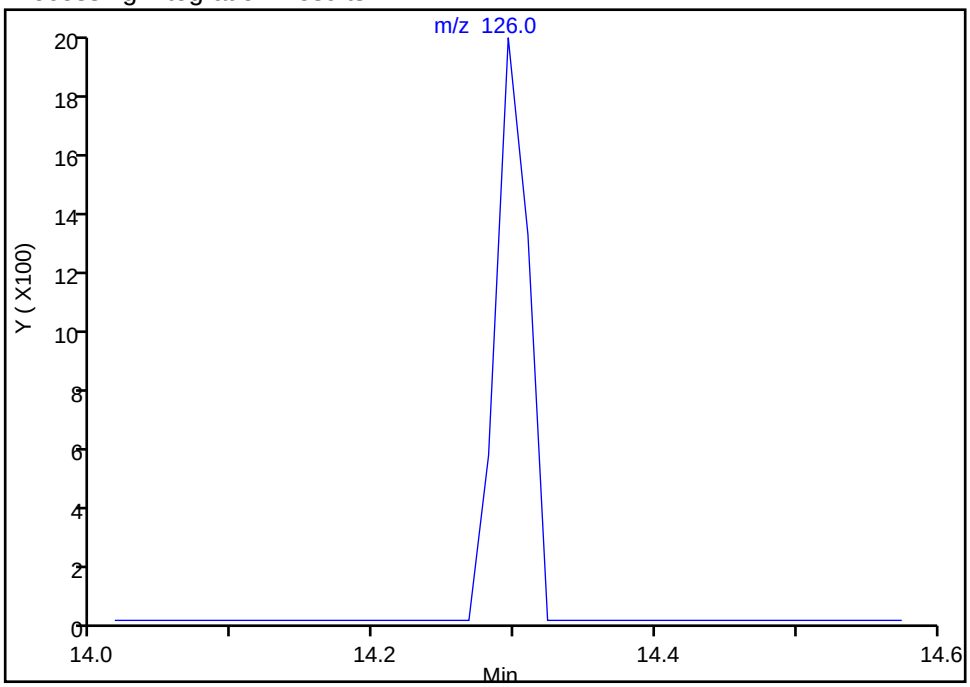
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Injection Date: 23-May-2019 11:57:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

121 Benzyl chloride, CAS: 100-44-7

Signal: 1

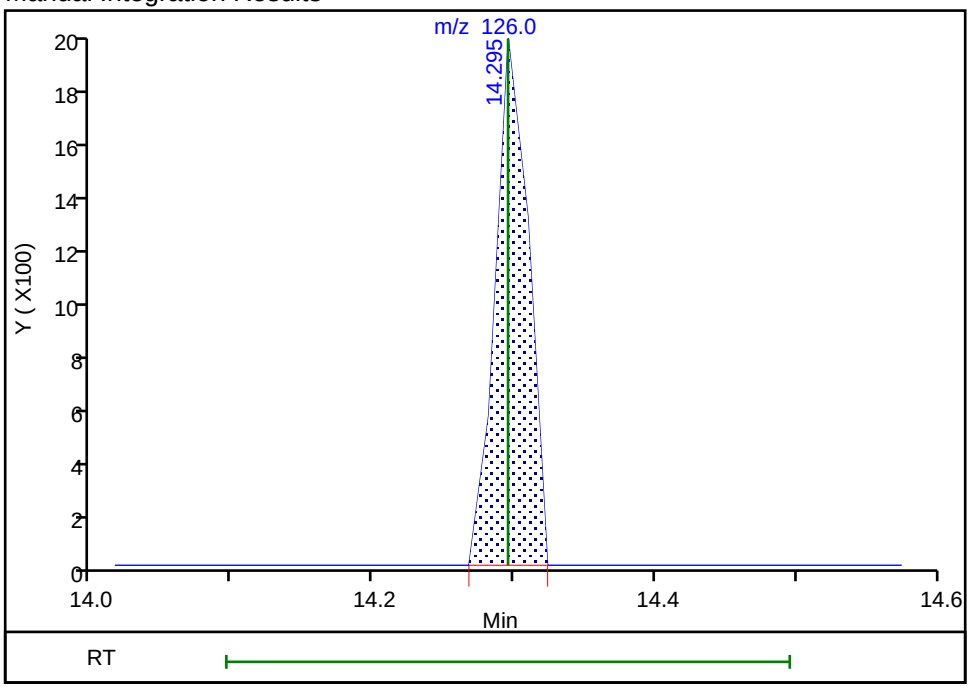
Not Detected
Expected RT: 14.30

Processing Integration Results



Manual Integration Results

RT: 14.30
Area: 3122
Amount: 2.129563
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:06:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4772.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-May-2019 12:22:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015160-006
Misc. Info.: IC
Operator ID: KA Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 28-May-2019 11:55:10 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0324

First Level Reviewer: aguk Date: 28-May-2019 11:06:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	63850	5.00	6.47	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	96	22096	5.00	5.45	
3 Chloromethane	50	3.500	3.499	0.001	99	68459	5.00	5.98	
4 Vinyl chloride	62	3.667	3.667	0.000	98	59685	5.00	5.69	
122 Butadiene	39	3.695	3.695	0.000	90	55883	5.00	5.74	
5 Bromomethane	94	4.268	4.268	0.000	92	28385	5.00	6.23	
6 Chloroethane	64	4.491	4.477	0.014	99	33828	5.00	5.83	
7 Trichlorofluoromethane	101	4.729	4.714	0.015	98	72985	5.00	5.78	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	97	80902	5.00	5.64	
8 Ethyl ether	74	5.231	5.231	0.000	92	16146	5.00	5.14	
11 Ethanol	45	5.455	5.469	-0.014	96	7012	200.0	206.8	
9 1,1-Dichloroethene	96	5.525	5.525	0.000	95	34526	5.00	5.29	
12 1,1,2-Trichloro-1,2,2-trif	151	5.581	5.580	0.001	90	30659	5.00	5.65	
10 Carbon disulfide	76	5.581	5.580	0.001	100	144827	5.00	5.54	
13 Iodomethane	142	5.748	5.748	0.000	98	10922	5.00	6.37	
S 26 1,2-Dichloroethene, Total	96				0			10.7	
14 Acrolein	56	6.014	6.013	0.001	96	6544	25.0	23.5	
15 3-Chloro-1-propene	39	6.181	6.181	0.000	91	44770	5.00	5.23	
16 Isopropyl alcohol	45	6.209	6.209	0.000	96	10059	50.0	49.2	
17 Methylene Chloride	84	6.335	6.335	0.000	97	36377	5.00	5.56	
18 Acetone	43	6.391	6.390	0.001	98	5722	5.00	5.85	
19 trans-1,2-Dichloroethene	96	6.530	6.530	0.000	96	40026	5.00	5.37	
20 Methyl acetate	74	6.530	6.530	0.000	98	5198	25.0	25.1	
21 Hexane	86	6.600	6.600	0.000	93	12900	5.00	4.97	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	90	69660	5.00	5.05	
23 2-Methyl-2-propanol	59	6.740	6.740	0.000	95	15252	50.0	46.1	
24 Acetonitrile	41	6.963	6.963	0.000	97	19900	50.0	55.5	
25 Isopropyl ether	45	7.061	7.061	0.000	91	101908	5.00	4.87	
27 2-Chloro-1,3-butadiene	53	7.215	7.214	0.001	93	59173	5.00	4.69	
28 1,1-Dichloroethane	63	7.243	7.242	0.001	96	79664	5.00	5.44	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.312	7.312	0.000	99	64462	50.0	53.3	
30 Tert-butyl ethyl ether	59	7.466	7.466	0.000	97	88594	5.00	4.85	
31 Vinyl acetate	43	7.494	7.494	0.000	98	46273	5.00	5.03	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	38592	5.00	5.35	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	92	65694	5.00	5.36	
34 Cyclohexane	84	8.025	8.024	0.001	91	67286	5.00	4.97	
35 Chlorobromomethane	128	8.025	8.024	0.001	57	12682	5.00	5.59	
36 Chloroform	83	8.081	8.080	0.001	93	68066	5.00	5.43	
39 Ethyl acetate	45	8.164	8.164	0.000	99	5184	10.0	10.7	
37 Carbon tetrachloride	117	8.234	8.234	0.000	97	52885	5.00	5.36	
38 Tetrahydrofuran	71	8.248	8.248	0.000	88	3284	10.0	9.17	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	93	27310	5.00	5.08	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	98	64444	5.00	5.35	
43 2-Butanone (MEK)	43	8.388	8.388	0.000	97	7834	5.00	5.42	
42 1,1-Dichloropropene	75	8.416	8.416	0.000	95	58337	5.00	5.05	
125 Isooctane	57	8.486	8.485	0.001	96	187018	5.00	4.95	
117 n-Heptane	43	8.569	8.569	0.000	90	78732	5.00	4.93	
44 Benzene	78	8.667	8.667	0.000	96	178317	5.00	5.53	
45 Propionitrile	54	8.695	8.695	0.000	93	26639	50.0	54.9	
46 Methacrylonitrile	41	8.709	8.709	0.000	94	124900	50.0	52.9	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	95	77772	5.00	5.04	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	99	33869	5.00	5.39	
50 Isobutyl alcohol	42	8.793	8.793	0.000	85	11394	125.0	124.5	
49 1,2-Dichloroethane	62	8.863	8.862	0.001	97	41047	5.00	5.54	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1439012	50.0	50.0	
53 Trichloroethene	95	9.198	9.198	0.000	64	44333	5.00	5.49	
52 Methylcyclohexane	55	9.198	9.198	0.000	91	71541	5.00	5.28	
54 n-Butanol	56	9.421	9.421	0.000	94	10328	125.0	156.9	
55 Dibromomethane	93	9.603	9.603	0.000	96	14253	5.00	5.43	
124 Ethyl acrylate	55	9.631	9.631	0.000	98	18128	5.00	6.10	
56 1,2-Dichloropropane	63	9.701	9.700	0.001	93	38367	5.00	5.30	
57 Dichlorobromomethane	83	9.729	9.728	0.001	97	40118	5.00	5.06	
58 Methyl methacrylate	69	9.826	9.826	0.000	93	20958	10.0	11.9	
59 1,4-Dioxane	88	9.910	9.910	0.000	86	2441	100.0	115.0	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	92	10472	5.00	6.38	
61 cis-1,3-Dichloropropene	75	10.301	10.301	0.000	93	46674	5.00	4.81	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	127239	5.00	4.87	
63 Toluene	92	10.511	10.510	0.001	98	97551	5.00	5.03	
64 2-Nitropropane	43	10.734	10.734	0.000	90	7307	10.0	11.6	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	97	13855	5.00	4.42	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	84	37689	5.00	4.66	
65 Tetrachloroethene	164	10.874	10.874	0.000	96	33850	5.00	5.33	
69 Ethyl methacrylate	69	10.944	10.943	0.001	91	18627	5.00	6.38	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	92	18597	5.00	5.27	
70 Chlorodibromomethane	129	11.209	11.209	0.000	91	18782	5.00	4.82	
71 1,3-Dichloropropane	76	11.293	11.293	0.000	93	41256	5.00	5.24	
119 n-Butyl acetate	43	11.432	11.432	0.000	97	22566	5.00	6.28	
72 Ethylene Dibromide	107	11.446	11.446	0.000	96	17428	5.00	5.00	
74 2-Hexanone	43	11.558	11.558	0.000	95	8806	5.00	6.28	
S 73 1,3-Dichloropropene, Total	75				0			9.47	
75 1-Chlorohexane	91	11.824	11.823	0.001	92	51424	5.00	4.38	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	94	900068	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.893	11.893	0.000	92	200614	5.00	5.30	
77 Chlorobenzene	112	11.907	11.907	0.000	97	101545	5.00	5.50	
79 1,1,1,2-Tetrachloroethane	131	11.949	11.949	0.000	93	27238	5.00	5.12	
80 m-Xylene & p-Xylene	106	12.019	12.019	0.000	100	65417	5.00	4.80	
82 o-Xylene	106	12.424	12.424	0.000	99	53595	5.00	4.51	
83 Styrene	104	12.466	12.466	0.000	93	77450	5.00	4.38	
84 Bromoform	173	12.536	12.536	0.000	93	10294	5.00	4.40	
85 Isopropylbenzene	105	12.689	12.689	0.000	96	160505	5.00	4.71	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.996	0.001	87	39910	5.00	4.67	
88 N-Propylbenzene	91	13.080	13.080	0.000	98	204366	5.00	4.71	
87 Bromobenzene	156	13.122	13.122	0.000	94	35280	5.00	5.28	
89 1,1,2,2-Tetrachloroethane	83	13.150	13.150	0.000	95	23065	5.00	5.26	
91 1,3,5-Trimethylbenzene	105	13.248	13.248	0.000	93	123647	5.00	4.56	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	145297	5.00	5.16	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	86	6483	5.00	5.21	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	74	6939	5.00	4.95	
94 Cyclohexanone	55	13.388	13.388	0.000	86	4687	50.0	64.0	
95 4-Chlorotoluene	91	13.416	13.415	0.001	99	121346	5.00	4.89	
96 tert-Butylbenzene	119	13.569	13.569	0.000	93	113373	5.00	4.74	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	98	127777	5.00	4.74	
98 sec-Butylbenzene	105	13.737	13.737	0.000	95	186970	5.00	4.82	
99 4-Isopropyltoluene	119	13.849	13.848	0.001	97	144111	5.00	4.71	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	97	71497	5.00	5.29	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	93	134714	5.00	5.15	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	421556	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	93	74665	5.00	5.55	
103 n-Butylbenzene	134	14.268	14.267	0.001	97	34296	5.00	4.77	
121 Benzyl chloride	126	14.296	14.295	0.001	92	6763	5.00	4.53	
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	94	62221	5.00	5.34	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	68	7696	5.00	9.95	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	70	2963	5.00	4.57	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	95	56448	5.00	5.24	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	95	37613	5.00	5.23	
109 1,2,4-Trichlorobenzene	180	15.944	15.943	0.001	94	39720	5.00	5.02	
110 Naphthalene	128	16.307	16.306	0.001	98	39958	5.00	4.51	
S 112 Xylenes, Total	106				0			9.32	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	93	33031	5.00	5.14	
S 113 Trihalomethanes, Total	1				0			19.7	

Reagents:

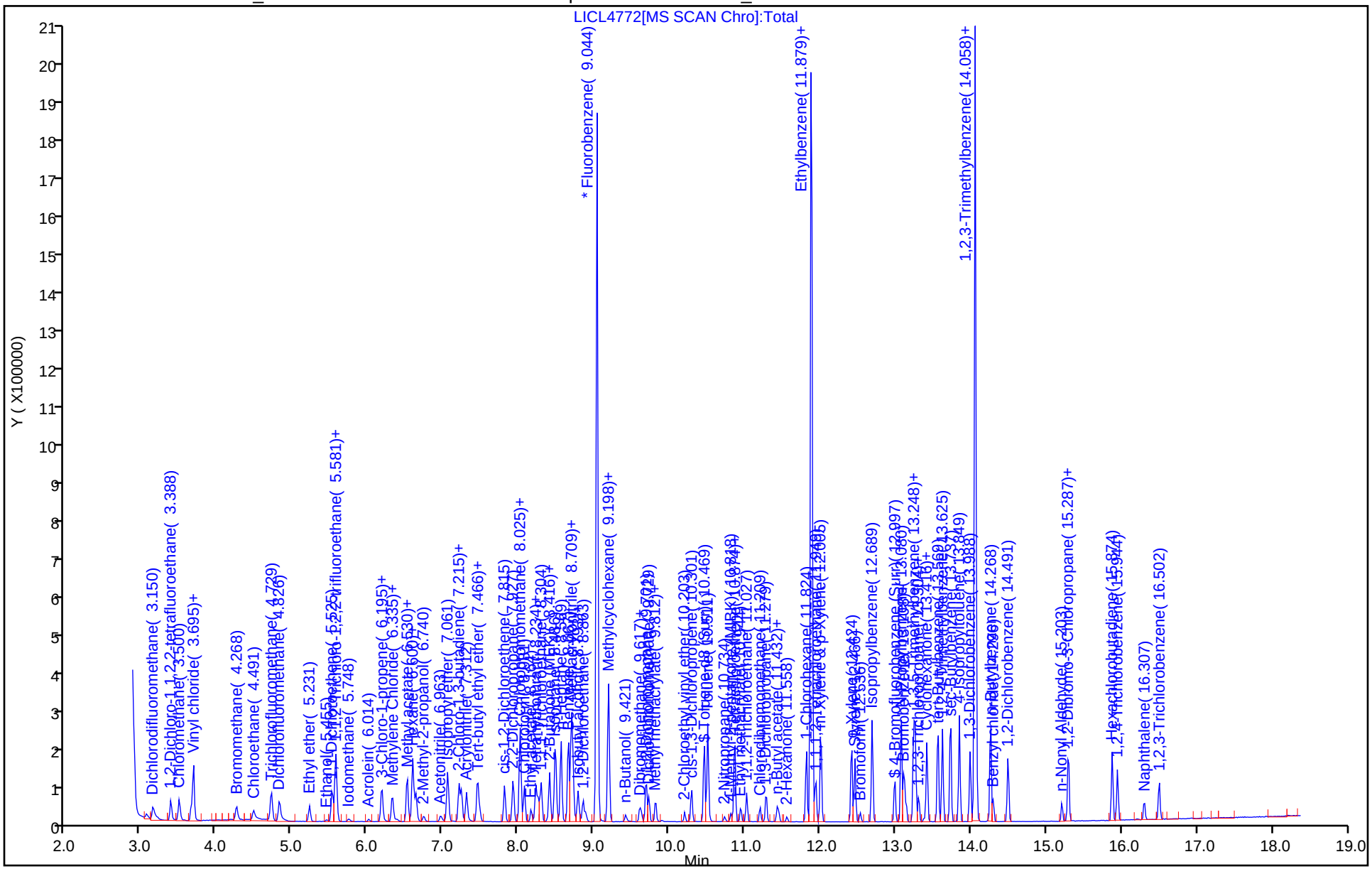
8260 NewWkMix_00328	Amount Added: 1.00	Units: uL	
8260 Surr 25_00099	Amount Added: 1.00	Units: uL	
I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 28-May-2019 11:55:10 Chrom Revision: 2.3 03-May-2019 15:52:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4772.D

Injection Date:	23-May-2019 12:22:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4773.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-May-2019 12:46:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015160-007
Misc. Info.: IC
Operator ID: KA Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 28-May-2019 11:55:13 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0324

First Level Reviewer: aguk Date: 28-May-2019 11:08:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	117685	10.0	11.7	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	97	43443	10.0	10.5	
3 Chloromethane	50	3.500	3.499	0.001	99	123140	10.0	10.5	
4 Vinyl chloride	62	3.667	3.667	0.000	98	108851	10.0	10.1	
122 Butadiene	39	3.695	3.695	0.000	90	104232	10.0	10.5	
5 Bromomethane	94	4.268	4.268	0.000	91	48488	10.0	10.4	
6 Chloroethane	64	4.491	4.477	0.014	100	62341	10.0	10.5	
7 Trichlorofluoromethane	101	4.729	4.714	0.015	98	132238	10.0	10.2	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	97	147031	10.0	10.0	
8 Ethyl ether	74	5.231	5.231	0.000	92	30417	10.0	9.47	
11 Ethanol	45	5.455	5.469	-0.014	100	13643	400.0	393.3	
9 1,1-Dichloroethene	96	5.525	5.525	0.000	95	65465	10.0	9.80	
12 1,1,2-Trichloro-1,2,2-trif	151	5.581	5.580	0.001	51	55458	10.0	9.99	
10 Carbon disulfide	76	5.581	5.580	0.001	100	269744	10.0	10.1	
13 Iodomethane	142	5.748	5.748	0.000	98	23932	10.0	8.66	
S 26 1,2-Dichloroethene, Total	96				0			19.3	
14 Acrolein	56	6.014	6.013	0.001	98	12291	50.0	43.2	
15 3-Chloro-1-propene	39	6.181	6.181	0.000	91	83039	10.0	9.48	
16 Isopropyl alcohol	45	6.209	6.209	0.000	96	19398	100.0	92.8	
17 Methylene Chloride	84	6.335	6.335	0.000	97	66319	10.0	9.90	
18 Acetone	43	6.391	6.390	0.001	99	10100	10.0	10.1	
19 trans-1,2-Dichloroethene	96	6.530	6.530	0.000	95	74998	10.0	9.84	
20 Methyl acetate	74	6.530	6.530	0.000	98	10272	50.0	48.5	
21 Hexane	86	6.600	6.600	0.000	92	25413	10.0	9.57	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	92	131362	10.0	9.30	
23 2-Methyl-2-propanol	59	6.740	6.740	0.000	96	31260	100.0	92.4	
24 Acetonitrile	41	6.963	6.963	0.000	99	35423	100.0	96.7	
25 Isopropyl ether	45	7.061	7.061	0.000	92	191746	10.0	8.96	
27 2-Chloro-1,3-butadiene	53	7.215	7.214	0.001	92	115199	10.0	8.92	
28 1,1-Dichloroethane	63	7.243	7.242	0.001	96	146685	10.0	9.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.312	7.312	0.000	100	119229	100.0	96.4	
30 Tert-butyl ethyl ether	59	7.452	7.466	-0.014	97	168863	10.0	9.03	
31 Vinyl acetate	43	7.494	7.494	0.000	98	87544	10.0	9.30	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	70014	10.0	9.49	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	92	121577	10.0	9.70	
34 Cyclohexane	84	8.025	8.024	0.001	91	131028	10.0	9.47	
35 Chlorobromomethane	128	8.025	8.024	0.001	55	23002	10.0	9.92	
36 Chloroform	83	8.081	8.080	0.001	94	126669	10.0	9.88	
39 Ethyl acetate	45	8.164	8.164	0.000	99	9381	20.0	18.9	
37 Carbon tetrachloride	117	8.234	8.234	0.000	97	98247	10.0	9.74	
38 Tetrahydrofuran	71	8.248	8.248	0.000	87	6488	20.0	17.7	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	93	54044	10.0	9.83	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	97	120634	10.0	9.79	
43 2-Butanone (MEK)	43	8.388	8.388	0.000	100	14930	10.0	10.1	
42 1,1-Dichloropropene	75	8.416	8.416	0.000	95	110095	10.0	9.32	
125 Isooctane	57	8.486	8.485	0.001	96	368595	10.0	9.54	
117 n-Heptane	43	8.569	8.569	0.000	93	156032	10.0	9.55	
44 Benzene	78	8.667	8.667	0.000	96	323119	10.0	9.79	
45 Propionitrile	54	8.695	8.695	0.000	93	48760	100.0	98.2	
46 Methacrylonitrile	41	8.709	8.709	0.000	94	240824	100.0	99.8	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	95	145687	10.0	9.22	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	99	64248	10.0	10.0	
50 Isobutyl alcohol	42	8.793	8.793	0.000	88	21588	250.0	230.5	
49 1,2-Dichloroethane	62	8.863	8.862	0.001	97	73911	10.0	9.75	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1472011	50.0	50.0	
53 Trichloroethene	95	9.198	9.198	0.000	62	82314	10.0	9.97	
52 Methylcyclohexane	55	9.198	9.198	0.000	91	133767	10.0	9.65	
54 n-Butanol	56	9.421	9.421	0.000	91	19481	250.0	236.2	
55 Dibromomethane	93	9.603	9.603	0.000	97	25525	10.0	9.51	
124 Ethyl acrylate	55	9.631	9.631	0.000	99	35846	10.0	9.47	
56 1,2-Dichloropropane	63	9.701	9.700	0.001	93	70296	10.0	9.49	
57 Dichlorobromomethane	83	9.729	9.728	0.001	98	76217	10.0	9.39	
58 Methyl methacrylate	69	9.826	9.826	0.000	92	42685	20.0	19.0	
59 1,4-Dioxane	88	9.910	9.910	0.000	92	4658	200.0	174.8	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	92	18708	10.0	9.11	
61 cis-1,3-Dichloropropene	75	10.301	10.301	0.000	94	89566	10.0	9.02	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	250334	10.0	9.39	
63 Toluene	92	10.511	10.510	0.001	98	186488	10.0	9.44	
64 2-Nitropropane	43	10.734	10.734	0.000	95	15252	20.0	20.3	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	97	27563	10.0	8.62	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	95	73309	10.0	8.90	
65 Tetrachloroethene	164	10.874	10.874	0.000	96	62718	10.0	9.69	
69 Ethyl methacrylate	69	10.944	10.943	0.001	90	39330	10.0	9.50	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	92	34610	10.0	9.62	
70 Chlorodibromomethane	129	11.209	11.209	0.000	91	36124	10.0	9.09	
71 1,3-Dichloropropane	76	11.293	11.293	0.000	93	74551	10.0	9.29	
119 n-Butyl acetate	43	11.432	11.432	0.000	98	44546	10.0	9.51	
72 Ethylene Dibromide	107	11.446	11.446	0.000	97	33193	10.0	9.34	
74 2-Hexanone	43	11.558	11.558	0.000	95	16685	10.0	9.37	
S 73 1,3-Dichloropropene, Total	75				0			17.9	
75 1-Chlorohexane	91	11.824	11.823	0.001	97	104184	10.0	8.71	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	92	917701	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.893	11.893	0.000	97	370484	10.0	9.59	
77 Chlorobenzene	112	11.907	11.907	0.000	96	185950	10.0	9.88	
79 1,1,1,2-Tetrachloroethane	131	11.949	11.949	0.000	90	52173	10.0	9.62	
80 m-Xylene & p-Xylene	106	12.005	12.019	-0.014	100	128535	10.0	9.26	
82 o-Xylene	106	12.424	12.424	0.000	97	108347	10.0	8.95	
83 Styrene	104	12.466	12.466	0.000	94	153496	10.0	8.52	
84 Bromoform	173	12.536	12.536	0.000	95	21215	10.0	8.81	
85 Isopropylbenzene	105	12.689	12.689	0.000	97	318714	10.0	9.10	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.996	0.001	88	80200	10.0	9.12	
88 N-Propylbenzene	91	13.080	13.080	0.000	99	411476	10.0	9.22	
87 Bromobenzene	156	13.122	13.122	0.000	96	65617	10.0	9.55	
89 1,1,2,2-Tetrachloroethane	83	13.150	13.150	0.000	95	43123	10.0	9.56	
91 1,3,5-Trimethylbenzene	105	13.248	13.248	0.000	93	253192	10.0	9.07	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	277322	10.0	9.57	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	86	12028	10.0	9.39	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	80	12977	10.0	8.99	
94 Cyclohexanone	55	13.388	13.388	0.000	88	8957	100.0	103.4	
95 4-Chlorotoluene	91	13.416	13.415	0.001	98	236240	10.0	9.25	
96 tert-Butylbenzene	119	13.569	13.569	0.000	93	224981	10.0	9.13	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	98	258144	10.0	9.32	
98 sec-Butylbenzene	105	13.737	13.737	0.000	95	374255	10.0	9.38	
99 4-Isopropyltoluene	119	13.849	13.848	0.001	97	290450	10.0	9.23	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	97	133154	10.0	9.57	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	96	254062	10.0	9.44	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	433752	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	91	135935	10.0	9.82	
103 n-Butylbenzene	134	14.268	14.267	0.001	98	68294	10.0	9.23	
121 Benzyl chloride	126	14.296	14.295	0.001	92	13476	10.0	8.76	
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	95	114861	10.0	9.58	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	85	18198	10.0	12.5	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	70	5625	10.0	8.43	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	95	106346	10.0	9.59	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	94	70563	10.0	9.54	
109 1,2,4-Trichlorobenzene	180	15.944	15.943	0.001	94	76824	10.0	9.44	
110 Naphthalene	128	16.307	16.306	0.001	98	79324	10.0	8.70	
S 112 Xylenes, Total	106				0			18.2	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	93	62387	10.0	9.44	
S 113 Trihalomethanes, Total	1				0			37.2	

Reagents:

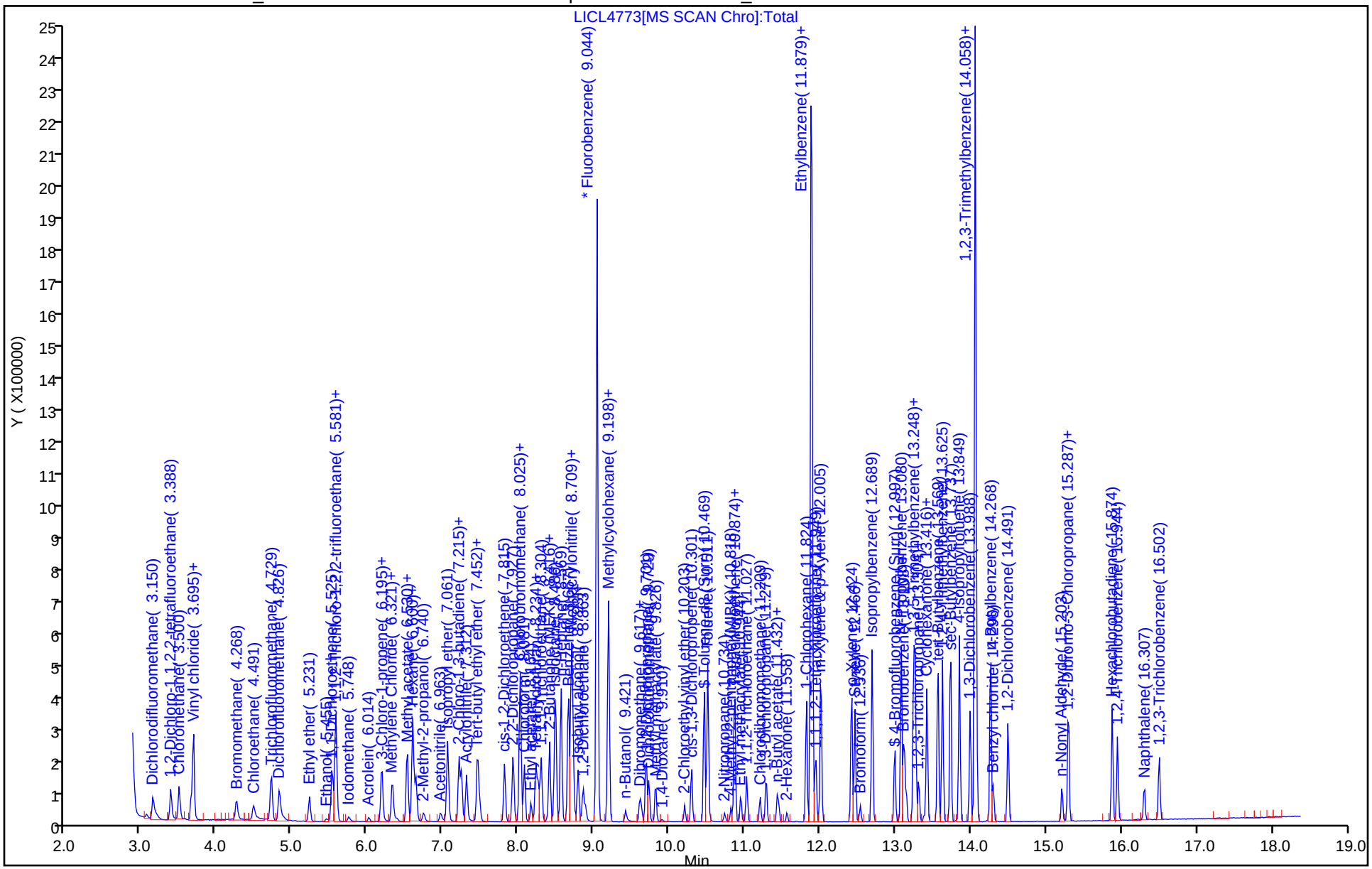
8260 NewWkMix_00328	Amount Added: 2.00	Units: uL	
8260 Surr 25_00099	Amount Added: 2.00	Units: uL	
I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 28-May-2019 11:55:14 Chrom Revision: 2.3 03-May-2019 15:52:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4773.D

Injection Date:	23-May-2019 12:46:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4774.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-May-2019 13:11:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015160-008
Misc. Info.: IC
Operator ID: KA Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 28-May-2019 11:55:16 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0324

First Level Reviewer: aguk Date: 28-May-2019 11:09:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	236184	20.0	23.8	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	96	88171	20.0	21.3	
3 Chloromethane	50	3.500	3.499	0.001	99	243692	20.0	20.8	
4 Vinyl chloride	62	3.667	3.667	0.000	97	221476	20.0	20.6	
122 Butadiene	39	3.695	3.695	0.000	90	209024	20.0	21.0	
5 Bromomethane	94	4.268	4.268	0.000	91	96207	20.0	20.6	
6 Chloroethane	64	4.491	4.477	0.014	100	126355	20.0	21.3	
7 Trichlorofluoromethane	101	4.729	4.714	0.015	98	263677	20.0	20.4	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	97	296397	20.0	20.2	
8 Ethyl ether	74	5.231	5.231	0.000	91	62688	20.0	19.5	
11 Ethanol	45	5.455	5.469	-0.014	99	27714	800.0	798.8	
9 1,1-Dichloroethene	96	5.525	5.525	0.000	95	134349	20.0	20.1	
12 1,1,2-Trichloro-1,2,2-trif	151	5.581	5.580	0.001	93	112827	20.0	20.3	
10 Carbon disulfide	76	5.581	5.580	0.001	100	548804	20.0	20.5	
13 Iodomethane	142	5.748	5.748	0.000	99	70951	20.0	17.1	
S 26 1,2-Dichloroethene, Total	96				0			40.1	
14 Acrolein	56	6.014	6.013	0.001	99	28257	100.0	99.3	
15 3-Chloro-1-propene	39	6.181	6.181	0.000	92	175226	20.0	20.0	
16 Isopropyl alcohol	45	6.209	6.209	0.000	97	40628	200.0	194.3	
17 Methylene Chloride	84	6.335	6.335	0.000	97	133744	20.0	20.0	
18 Acetone	43	6.391	6.390	0.001	100	19931	20.0	19.9	
19 trans-1,2-Dichloroethene	96	6.530	6.530	0.000	96	154141	20.0	20.2	
20 Methyl acetate	74	6.530	6.530	0.000	98	20737	100.0	97.9	
21 Hexane	86	6.600	6.600	0.000	93	54809	20.0	20.6	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	86	279215	20.0	19.8	
23 2-Methyl-2-propanol	59	6.740	6.740	0.000	97	64616	200.0	190.9	
24 Acetonitrile	41	6.963	6.963	0.000	100	71659	200.0	195.5	
25 Isopropyl ether	45	7.061	7.061	0.000	93	422413	20.0	19.7	
27 2-Chloro-1,3-butadiene	53	7.215	7.214	0.001	92	255863	20.0	19.8	
28 1,1-Dichloroethane	63	7.243	7.242	0.001	95	302919	20.0	20.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.312	7.312	0.000	99	244701	200.0	197.8	
30 Tert-butyl ethyl ether	59	7.466	7.466	0.000	97	365578	20.0	19.6	
31 Vinyl acetate	43	7.494	7.494	0.000	97	186664	20.0	19.8	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	146962	20.0	19.9	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	91	249078	20.0	19.9	
34 Cyclohexane	84	8.025	8.024	0.001	91	281452	20.0	20.3	
35 Chlorobromomethane	128	8.025	8.024	0.001	54	46304	20.0	20.0	
36 Chloroform	83	8.081	8.080	0.001	94	255383	20.0	19.9	
39 Ethyl acetate	45	8.164	8.164	0.000	99	19334	40.0	38.9	
37 Carbon tetrachloride	117	8.234	8.234	0.000	97	200998	20.0	19.9	
38 Tetrahydrofuran	71	8.248	8.248	0.000	86	14143	40.0	38.6	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	93	111200	20.0	20.2	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	98	244995	20.0	19.9	
43 2-Butanone (MEK)	43	8.388	8.388	0.000	98	28334	20.0	19.2	
42 1,1-Dichloropropene	75	8.416	8.416	0.000	96	237506	20.0	20.1	
125 Isooctane	57	8.486	8.485	0.001	96	789654	20.0	20.4	
117 n-Heptane	43	8.569	8.569	0.000	92	339123	20.0	20.8	
44 Benzene	78	8.667	8.667	0.000	96	661965	20.0	20.1	
45 Propionitrile	54	8.695	8.695	0.000	94	96495	200.0	194.3	
46 Methacrylonitrile	41	8.709	8.709	0.000	94	486139	200.0	201.4	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	96	312871	20.0	19.8	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	97	128825	20.0	20.0	
50 Isobutyl alcohol	42	8.793	8.793	0.000	92	41829	500.0	446.6	
49 1,2-Dichloroethane	62	8.863	8.862	0.001	97	151808	20.0	20.0	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1472108	50.0	50.0	
53 Trichloroethene	95	9.198	9.198	0.000	61	164406	20.0	19.9	
52 Methylcyclohexane	55	9.198	9.198	0.000	91	283692	20.0	20.5	
54 n-Butanol	56	9.421	9.421	0.000	92	43640	500.0	451.0	
55 Dibromomethane	93	9.603	9.603	0.000	96	53327	20.0	19.9	
124 Ethyl acrylate	55	9.631	9.631	0.000	99	81196	20.0	18.3	
56 1,2-Dichloropropane	63	9.701	9.700	0.001	94	145447	20.0	19.6	
57 Dichlorobromomethane	83	9.729	9.728	0.001	98	159959	20.0	19.7	
58 Methyl methacrylate	69	9.826	9.826	0.000	92	96996	40.0	36.9	
59 1,4-Dioxane	88	9.910	9.910	0.000	95	12924	400.0	403.4	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	92	43539	20.0	17.6	
61 cis-1,3-Dichloropropene	75	10.301	10.301	0.000	94	193389	20.0	19.5	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	532385	20.0	19.9	
63 Toluene	92	10.511	10.510	0.001	98	396282	20.0	20.0	
64 2-Nitropropane	43	10.734	10.734	0.000	97	32898	40.0	39.4	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	97	60764	20.0	19.0	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	94	162630	20.0	19.7	
65 Tetrachloroethene	164	10.874	10.874	0.000	96	128986	20.0	19.9	
69 Ethyl methacrylate	69	10.944	10.943	0.001	90	90959	20.0	17.4	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	93	70851	20.0	19.7	
70 Chlorodibromomethane	129	11.209	11.209	0.000	90	76133	20.0	19.1	
71 1,3-Dichloropropane	76	11.293	11.293	0.000	93	155864	20.0	19.4	
119 n-Butyl acetate	43	11.432	11.432	0.000	98	99897	20.0	17.8	
72 Ethylene Dibromide	107	11.446	11.446	0.000	97	69218	20.0	19.4	
74 2-Hexanone	43	11.558	11.558	0.000	96	38972	20.0	18.3	
S 73 1,3-Dichloropropene, Total	75				0			39.2	
75 1-Chlorohexane	91	11.823	11.823	0.000	98	234584	20.0	19.6	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	93	919745	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.893	11.893	0.000	96	766516	20.0	19.8	
77 Chlorobenzene	112	11.907	11.907	0.000	93	374036	20.0	19.8	
79 1,1,1,2-Tetrachloroethane	131	11.949	11.949	0.000	93	107257	20.0	19.7	
80 m-Xylene & p-Xylene	106	12.019	12.019	0.000	100	276506	20.0	19.9	
82 o-Xylene	106	12.424	12.424	0.000	98	242663	20.0	20.0	
83 Styrene	104	12.466	12.466	0.000	94	347797	20.0	19.3	
84 Bromoform	173	12.536	12.536	0.000	96	45680	20.0	18.8	
85 Isopropylbenzene	105	12.689	12.689	0.000	97	701117	20.0	19.9	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.996	0.001	89	172101	20.0	19.4	
88 N-Propylbenzene	91	13.080	13.080	0.000	99	895539	20.0	19.9	
87 Bromobenzene	156	13.122	13.122	0.000	95	135725	20.0	19.6	
89 1,1,2,2-Tetrachloroethane	83	13.150	13.150	0.000	95	87137	20.0	19.2	
91 1,3,5-Trimethylbenzene	105	13.248	13.248	0.000	94	559080	20.0	19.9	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	575140	20.0	19.7	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	87	25029	20.0	19.4	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	83	27765	20.0	19.1	
94 Cyclohexanone	55	13.388	13.388	0.000	93	18818	200.0	193.9	
95 4-Chlorotoluene	91	13.416	13.415	0.001	98	505443	20.0	19.7	
96 tert-Butylbenzene	119	13.569	13.569	0.000	93	488516	20.0	19.7	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	98	550895	20.0	19.7	
98 sec-Butylbenzene	105	13.737	13.737	0.000	95	794111	20.0	19.8	
99 4-Isopropyltoluene	119	13.849	13.848	0.001	97	625155	20.0	19.7	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	96	271209	20.0	19.3	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	84	527933	20.0	19.5	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	436905	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	92	273379	20.0	19.6	
103 n-Butylbenzene	134	14.268	14.267	0.001	98	146208	20.0	19.6	
121 Benzyl chloride	126	14.296	14.295	0.001	94	29122	20.0	18.8	
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	95	234710	20.0	19.4	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	88	45534	20.0	19.1	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	76	12942	20.0	19.3	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	96	215208	20.0	19.3	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	95	144501	20.0	19.4	
109 1,2,4-Trichlorobenzene	180	15.944	15.943	0.001	94	156926	20.0	19.1	
110 Naphthalene	128	16.307	16.306	0.001	98	173774	20.0	18.9	
S 112 Xylenes, Total	106				0			39.9	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	94	129103	20.0	19.4	
S 113 Trihalomethanes, Total	1				0			77.6	

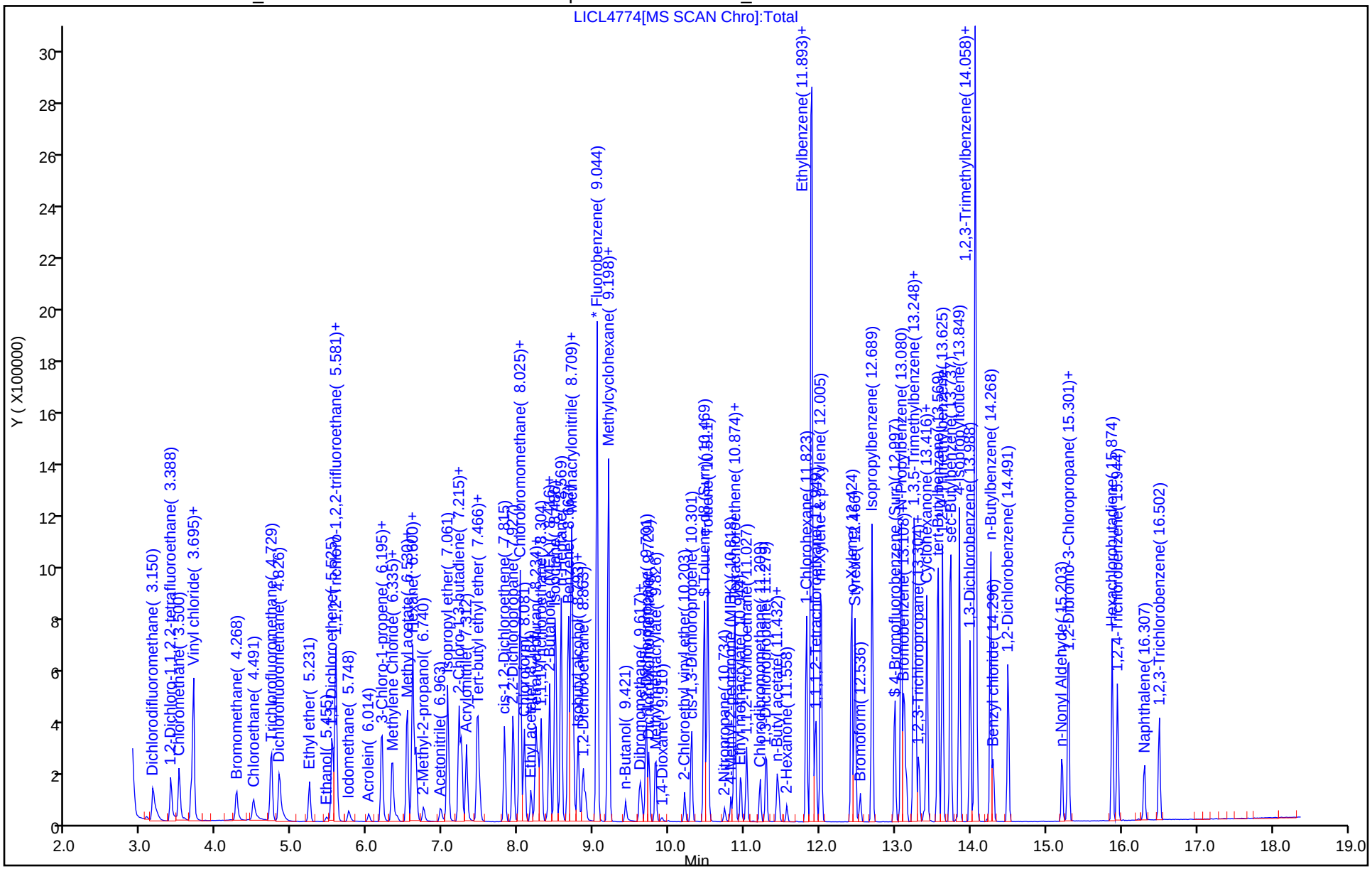
Reagents:

8260 NewWkMix_00328	Amount Added: 4.00	Units: uL	
8260 Surr 25_00099	Amount Added: 4.00	Units: uL	
I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 28-May-2019 11:55:17 Chrom Revision: 2.3 03-May-2019 15:52:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4774.D				
Injection Date:	23-May-2019 13:11:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4775.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 23-May-2019 13:36:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015160-009
Misc. Info.: ICIS
Operator ID: KA Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 28-May-2019 11:55:20 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0324

First Level Reviewer: aguk Date: 24-May-2019 12:05:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	602794	50.0	59.7	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	96	227586	50.0	52.1	
3 Chloromethane	50	3.499	3.499	0.000	99	612571	50.0	49.6	
4 Vinyl chloride	62	3.667	3.667	0.000	97	576103	50.0	50.9	
122 Butadiene	39	3.695	3.695	0.000	90	542292	50.0	51.7	
5 Bromomethane	94	4.268	4.268	0.000	91	235889	50.0	48.0	
6 Chloroethane	64	4.477	4.477	0.000	99	297522	50.0	47.6	
7 Trichlorofluoromethane	101	4.714	4.714	0.000	98	671974	50.0	49.4	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	98	756182	50.0	48.9	
8 Ethyl ether	74	5.231	5.231	0.000	93	168804	50.0	49.9	
11 Ethanol	45	5.469	5.469	0.000	100	68877	2000.0	1884.7	
9 1,1-Dichloroethene	96	5.525	5.525	0.000	95	356947	50.0	50.7	
12 1,1,2-Trichloro-1,2,2-trif	151	5.580	5.580	0.000	51	291049	50.0	49.7	
10 Carbon disulfide	76	5.580	5.580	0.000	99	1427402	50.0	50.7	
13 Iodomethane	142	5.748	5.748	0.000	100	260505	50.0	48.8	
14 Acrolein	56	6.013	6.013	0.000	100	76205	250.0	254.2	
15 3-Chloro-1-propene	39	6.181	6.181	0.000	92	471334	50.0	51.1	
16 Isopropyl alcohol	45	6.209	6.209	0.000	97	108042	500.0	490.5	
17 Methylene Chloride	84	6.335	6.335	0.000	97	348633	50.0	49.4	
18 Acetone	43	6.390	6.390	0.000	99	49607	50.0	47.0	
19 trans-1,2-Dichloroethene	96	6.530	6.530	0.000	96	396956	50.0	49.4	
20 Methyl acetate	74	6.530	6.530	0.000	98	55099	250.0	247.0	
21 Hexane	86	6.600	6.600	0.000	92	147274	50.0	52.6	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	86	738289	50.0	49.6	
23 2-Methyl-2-propanol	59	6.740	6.740	0.000	97	177232	500.0	497.1	
24 Acetonitrile	41	6.963	6.963	0.000	99	187299	500.0	485.2	
25 Isopropyl ether	45	7.061	7.061	0.000	94	1157328	50.0	51.3	
27 2-Chloro-1,3-butadiene	53	7.214	7.214	0.000	93	710080	50.0	52.2	
28 1,1-Dichloroethane	63	7.242	7.242	0.000	95	780047	50.0	49.4	
29 Acrylonitrile	53	7.312	7.312	0.000	99	639747	500.0	491.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.466	7.466	0.000	98	1004122	50.0	51.0	
31 Vinyl acetate	43	7.494	7.494	0.000	97	500925	50.0	50.5	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	384822	50.0	49.5	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	90	656022	50.0	49.7	
34 Cyclohexane	84	8.024	8.024	0.000	90	760503	50.0	52.2	
35 Chlorobromomethane	128	8.024	8.024	0.000	52	121064	50.0	49.5	
36 Chloroform	83	8.080	8.080	0.000	93	660406	50.0	48.9	
39 Ethyl acetate	45	8.164	8.164	0.000	99	50458	100.0	96.3	
37 Carbon tetrachloride	117	8.234	8.234	0.000	97	530606	50.0	49.9	
38 Tetrahydrofuran	71	8.248	8.248	0.000	88	39509	100.0	102.4	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	93	294541	50.0	50.9	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	98	640354	50.0	49.3	
43 2-Butanone (MEK)	43	8.388	8.388	0.000	99	75024	50.0	48.1	
42 1,1-Dichloropropene	75	8.416	8.416	0.000	95	632519	50.0	50.8	
125 Isooctane	57	8.485	8.485	0.000	96	2113736	50.0	51.9	
117 n-Heptane	43	8.569	8.569	0.000	92	896868	50.0	52.1	
44 Benzene	78	8.667	8.667	0.000	96	1711924	50.0	49.3	
45 Propionitrile	54	8.695	8.695	0.000	89	256878	500.0	491.0	
46 Methacrylonitrile	41	8.709	8.709	0.000	93	1264498	500.0	497.4	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	97	831589	50.0	50.0	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	339979	50.0	50.2	
50 Isobutyl alcohol	42	8.793	8.793	0.000	63	119541	1250.0	1211.7	
49 1,2-Dichloroethane	62	8.862	8.862	0.000	97	389935	50.0	48.8	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1550648	50.0	50.0	
53 Trichloroethene	95	9.198	9.198	0.000	60	427982	50.0	49.2	
52 Methylcyclohexane	55	9.198	9.198	0.000	91	741450	50.0	50.8	
54 n-Butanol	56	9.421	9.421	0.000	91	122159	1250.0	1094.3	
55 Dibromomethane	93	9.603	9.603	0.000	96	138489	50.0	49.0	
124 Ethyl acrylate	55	9.631	9.631	0.000	99	232678	50.0	45.6	
56 1,2-Dichloropropane	63	9.700	9.700	0.000	95	388931	50.0	49.9	
57 Dichlorobromomethane	83	9.728	9.728	0.000	98	429313	50.0	50.2	
58 Methyl methacrylate	69	9.826	9.826	0.000	93	279755	100.0	92.5	
59 1,4-Dioxane	88	9.910	9.910	0.000	96	35029	1000.0	965.7	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	92	133145	50.0	45.9	
61 cis-1,3-Dichloropropene	75	10.301	10.301	0.000	94	535660	50.0	51.2	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	1454158	50.0	51.9	
63 Toluene	92	10.510	10.510	0.000	98	1038826	50.0	50.0	
64 2-Nitropropane	43	10.734	10.734	0.000	98	94436	100.0	97.1	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	97	167571	50.0	49.8	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	94	444897	50.0	51.3	
65 Tetrachloroethene	164	10.874	10.874	0.000	95	337055	50.0	49.5	
69 Ethyl methacrylate	69	10.943	10.943	0.000	91	280273	50.0	44.4	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	93	183057	50.0	48.4	
70 Chlorodibromomethane	129	11.209	11.209	0.000	91	209695	50.0	50.2	
71 1,3-Dichloropropane	76	11.293	11.293	0.000	92	413391	50.0	49.0	
119 n-Butyl acetate	43	11.432	11.432	0.000	98	291201	50.0	44.4	
72 Ethylene Dibromide	107	11.446	11.446	0.000	97	185385	50.0	49.6	
74 2-Hexanone	43	11.558	11.558	0.000	96	109260	50.0	44.4	
75 1-Chlorohexane	91	11.823	11.823	0.000	98	660952	50.0	52.5	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	95	965523	50.0	50.0	
78 Ethylbenzene	91	11.893	11.893	0.000	98	2011192	50.0	49.5	
77 Chlorobenzene	112	11.907	11.907	0.000	97	970380	50.0	49.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
79 1,1,1,2-Tetrachloroethane	131	11.949	11.949	0.000	94	282341	50.0	49.5	
80 m-Xylene & p-Xylene	106	12.019	12.019	0.000	100	741514	50.0	50.8	
82 o-Xylene	106	12.424	12.424	0.000	97	658868	50.0	51.7	
83 Styrene	104	12.466	12.466	0.000	95	998520	50.0	52.7	
84 Bromoform	173	12.536	12.536	0.000	96	127243	50.0	50.1	
85 Isopropylbenzene	105	12.689	12.689	0.000	97	1881515	50.0	50.9	
$ 86 4-Bromofluorobenzene (Surr	95	12.996	12.996	0.000	91	483358	50.0	52.1	
88 N-Propylbenzene	91	13.080	13.080	0.000	99	2419163	50.0	51.3	
87 Bromobenzene	156	13.122	13.122	0.000	94	354826	50.0	48.9	
89 1,1,2,2-Tetrachloroethane	83	13.150	13.150	0.000	95	232356	50.0	48.8	
91 1,3,5-Trimethylbenzene	105	13.248	13.248	0.000	94	1519839	50.0	51.6	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	1505006	50.0	49.2	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	84	67107	50.0	49.7	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	96	75157	50.0	49.3	
94 Cyclohexanone	55	13.388	13.388	0.000	93	53603	500.0	474.0	
95 4-Chlorotoluene	91	13.415	13.415	0.000	98	1356992	50.0	50.4	
96 tert-Butylbenzene	119	13.569	13.569	0.000	93	1340586	50.0	51.5	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	97	1486159	50.0	50.8	
98 sec-Butylbenzene	105	13.737	13.737	0.000	95	2151989	50.0	51.1	
99 4-Isopropyltoluene	119	13.848	13.848	0.000	97	1711547	50.0	51.5	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	96	724605	50.0	49.3	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	97	1406732	50.0	49.5	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	83	457913	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	90	708573	50.0	48.5	
103 n-Butylbenzene	134	14.267	14.267	0.000	98	398539	50.0	51.0	
121 Benzyl chloride	126	14.295	14.295	0.000	98	81583	50.0	50.3	
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	95	621108	50.0	49.1	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	89	148357	50.0	42.6	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	79	35297	50.0	50.1	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	96	581401	50.0	49.7	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	95	385556	50.0	49.4	
109 1,2,4-Trichlorobenzene	180	15.943	15.943	0.000	94	429924	50.0	50.0	
110 Naphthalene	128	16.306	16.306	0.000	98	494454	50.0	51.4	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	94	346462	50.0	49.6	

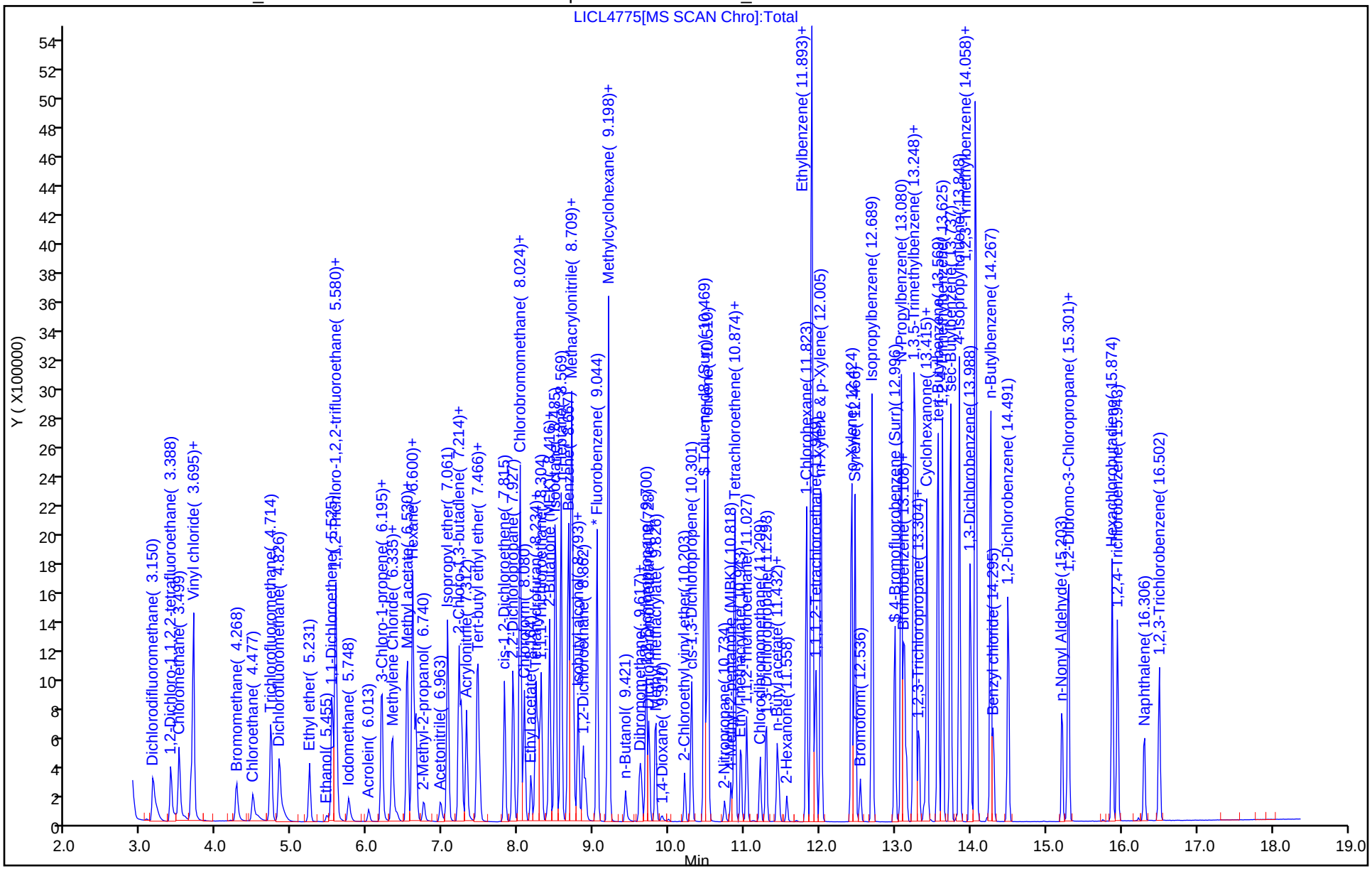
Reagents:

8260 NewWkMix_00328	Amount Added: 10.00	Units: uL	
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	
I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 28-May-2019 11:55:21 Chrom Revision: 2.3 03-May-2019 15:52:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4775.D				
Injection Date:	23-May-2019 13:36:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	ICIS			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4776.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-May-2019 14:01:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015160-010
Misc. Info.: IC
Operator ID: KA Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 28-May-2019 11:55:24 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0324

First Level Reviewer: aguk Date: 28-May-2019 11:10:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	906299	100.0	89.9	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	96	398300	100.0	88.5	
3 Chloromethane	50	3.500	3.499	0.001	99	1094951	100.0	86.1	
4 Vinyl chloride	62	3.667	3.667	0.000	97	1054169	100.0	90.5	
122 Butadiene	39	3.695	3.695	0.000	90	962675	100.0	89.2	
5 Bromomethane	94	4.268	4.268	0.000	91	433533	100.0	85.7	
6 Chloroethane	64	4.477	4.477	0.000	99	545294	100.0	84.7	M
7 Trichlorofluoromethane	101	4.715	4.714	0.001	98	1282348	100.0	91.5	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	97	1510360	100.0	94.9	
8 Ethyl ether	74	5.231	5.231	0.000	92	353809	100.0	101.5	
11 Ethanol	45	5.469	5.469	0.000	100	146140	4000.0	3882.6	
9 1,1-Dichloroethene	96	5.525	5.525	0.000	95	698654	100.0	96.4	
12 1,1,2-Trichloro-1,2,2-trif	151	5.581	5.580	0.001	53	566874	100.0	94.1	
10 Carbon disulfide	76	5.581	5.580	0.001	99	2682939	100.0	92.5	
13 Iodomethane	142	5.748	5.748	0.000	99	588313	100.0	101.7	
S 26 1,2-Dichloroethene, Total	96				0			196.6	
14 Acrolein	56	6.014	6.013	0.001	99	162195	500.0	525.3	
15 3-Chloro-1-propene	39	6.181	6.181	0.000	92	947947	100.0	99.8	
16 Isopropyl alcohol	45	6.209	6.209	0.000	98	234585	1000.0	1034.0	
17 Methylene Chloride	84	6.335	6.335	0.000	96	695858	100.0	95.8	
18 Acetone	43	6.391	6.390	0.001	100	99673	100.0	91.8	
19 trans-1,2-Dichloroethene	96	6.530	6.530	0.000	96	805225	100.0	97.3	
20 Methyl acetate	74	6.530	6.530	0.000	98	116707	500.0	508.0	
21 Hexane	86	6.600	6.600	0.000	91	283109	100.0	98.2	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	85	1556295	100.0	101.6	
23 2-Methyl-2-propanol	59	6.740	6.740	0.000	99	386310	1000.0	1052.1	
24 Acetonitrile	41	6.963	6.963	0.000	99	380644	1000.0	957.3	
25 Isopropyl ether	45	7.061	7.061	0.000	94	2454617	100.0	105.7	
27 2-Chloro-1,3-butadiene	53	7.215	7.214	0.001	92	1489296	100.0	106.3	
28 1,1-Dichloroethane	63	7.243	7.242	0.001	95	1574264	100.0	96.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.312	7.312	0.000	99	1313152	1000.0	978.6	
30 Tert-butyl ethyl ether	59	7.466	7.466	0.000	98	2129916	100.0	105.0	
31 Vinyl acetate	43	7.494	7.494	0.000	97	1027688	100.0	100.6	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	793912	100.0	99.2	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	90	1336170	100.0	98.2	
34 Cyclohexane	84	8.025	8.024	0.001	90	1499293	100.0	99.9	
35 Chlorobromomethane	128	8.025	8.024	0.001	53	239878	100.0	95.3	
36 Chloroform	83	8.081	8.080	0.001	93	1359549	100.0	97.7	
39 Ethyl acetate	45	8.164	8.164	0.000	99	106839	200.0	198.0	
37 Carbon tetrachloride	117	8.234	8.234	0.000	97	1073141	100.0	98.1	
38 Tetrahydrofuran	71	8.248	8.248	0.000	87	84129	200.0	211.6	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	602157	100.0	100.9	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	98	1319572	100.0	98.7	
43 2-Butanone (MEK)	43	8.388	8.388	0.000	99	156485	100.0	97.5	
42 1,1-Dichloropropene	75	8.416	8.416	0.000	96	1301863	100.0	101.5	
125 Isooctane	57	8.486	8.485	0.001	96	4210033	100.0	100.4	
117 n-Heptane	43	8.569	8.569	0.000	91	1764453	100.0	99.6	
44 Benzene	78	8.667	8.667	0.000	96	3463202	100.0	96.8	
45 Propionitrile	54	8.695	8.695	0.000	95	524404	1000.0	973.3	
46 Methacrylonitrile	41	8.709	8.709	0.000	93	2550762	1000.0	974.3	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	98	1760071	100.0	102.7	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	680847	100.0	97.6	
50 Isobutyl alcohol	42	8.793	8.793	0.000	93	268497	2500.0	2642.5	
49 1,2-Dichloroethane	62	8.863	8.862	0.001	97	792899	100.0	96.4	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1597090	50.0	50.0	
53 Trichloroethene	95	9.198	9.198	0.000	60	869171	100.0	97.0	
52 Methylcyclohexane	55	9.198	9.198	0.000	90	1472715	100.0	97.9	
54 n-Butanol	56	9.421	9.421	0.000	89	288541	2500.0	2428.1	
55 Dibromomethane	93	9.617	9.603	0.014	96	285603	100.0	98.1	
124 Ethyl acrylate	55	9.631	9.631	0.000	99	518359	100.0	95.7	
56 1,2-Dichloropropane	63	9.701	9.700	0.001	96	803327	100.0	100.0	
57 Dichlorobromomethane	83	9.729	9.728	0.001	99	896159	100.0	101.8	
58 Methyl methacrylate	69	9.826	9.826	0.000	92	624120	200.0	194.8	
59 1,4-Dioxane	88	9.910	9.910	0.000	97	75259	2000.0	1964.5	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	91	299083	100.0	96.9	
61 cis-1,3-Dichloropropene	75	10.301	10.301	0.000	94	1137541	100.0	105.6	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	2962088	100.0	104.7	
63 Toluene	92	10.511	10.510	0.001	98	2134813	100.0	101.8	
64 2-Nitropropane	43	10.734	10.734	0.000	99	220262	200.0	201.9	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	96	370461	100.0	109.2	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	95	928328	100.0	106.2	
65 Tetrachloroethene	164	10.874	10.874	0.000	96	684462	100.0	99.6	
69 Ethyl methacrylate	69	10.958	10.943	0.015	89	637502	100.0	95.8	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	92	376789	100.0	98.7	
70 Chlorodibromomethane	129	11.209	11.209	0.000	91	442926	100.0	105.1	
71 1,3-Dichloropropane	76	11.293	11.293	0.000	92	858264	100.0	100.8	
119 n-Butyl acetate	43	11.432	11.432	0.000	99	659440	100.0	96.2	
72 Ethylene Dibromide	107	11.460	11.446	0.014	97	385226	100.0	102.2	
74 2-Hexanone	43	11.558	11.558	0.000	96	242557	100.0	94.5	
S 73 1,3-Dichloropropene, Total	75				0			211.8	
75 1-Chlorohexane	91	11.823	11.823	0.000	99	1393231	100.0	109.7	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	93	973737	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.893	11.893	0.000	99	4118895	100.0	100.5	
77 Chlorobenzene	112	11.907	11.907	0.000	97	1945916	100.0	97.5	
79 1,1,1,2-Tetrachloroethane	131	11.949	11.949	0.000	95	577983	100.0	100.5	
80 m-Xylene & p-Xylene	106	12.019	12.019	0.000	100	1540622	100.0	104.6	
82 o-Xylene	106	12.424	12.424	0.000	97	1375349	100.0	107.1	
83 Styrene	104	12.466	12.466	0.000	95	2114123	100.0	110.6	
84 Bromoform	173	12.536	12.536	0.000	96	272905	100.0	108.4	
85 Isopropylbenzene	105	12.689	12.689	0.000	97	3878793	100.0	105.8	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.996	0.001	91	983228	100.0	106.9	
88 N-Propylbenzene	91	13.080	13.080	0.000	99	4928760	100.0	105.5	
87 Bromobenzene	156	13.122	13.122	0.000	93	719824	100.0	100.1	
89 1,1,2,2-Tetrachloroethane	83	13.150	13.150	0.000	95	464852	100.0	98.5	
91 1,3,5-Trimethylbenzene	105	13.248	13.248	0.000	94	3117675	100.0	106.8	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	3056427	100.0	100.8	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	87	132522	100.0	98.9	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	90	156543	100.0	103.7	
94 Cyclohexanone	55	13.388	13.388	0.000	92	127185	1000.0	1016.9	
95 4-Chlorotoluene	91	13.416	13.415	0.001	98	2755231	100.0	103.2	
96 tert-Butylbenzene	119	13.569	13.569	0.000	93	2724102	100.0	105.7	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	98	3024939	100.0	104.3	
98 sec-Butylbenzene	105	13.737	13.737	0.000	95	4344687	100.0	104.1	
99 4-Isopropyltoluene	119	13.849	13.848	0.001	97	3466945	100.0	105.3	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	96	1459065	100.0	100.2	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	98	2867183	100.0	101.8	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	59	453770	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	90	1407832	100.0	97.2	
103 n-Butylbenzene	134	14.268	14.267	0.001	97	818438	100.0	105.8	
121 Benzyl chloride	126	14.296	14.295	0.001	97	172156	100.0	107.0	
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	95	1246928	100.0	99.4	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	90	384230	100.0	98.4	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	70	75457	100.0	108.1	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	96	1172742	100.0	101.1	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	95	781555	100.0	101.0	
109 1,2,4-Trichlorobenzene	180	15.944	15.943	0.001	94	870667	100.0	102.3	
110 Naphthalene	128	16.307	16.306	0.001	98	1031907	100.0	108.1	
S 112 Xylenes, Total	106				0			211.6	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	94	702723	100.0	101.6	
S 113 Trihalomethanes, Total	1				0			412.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

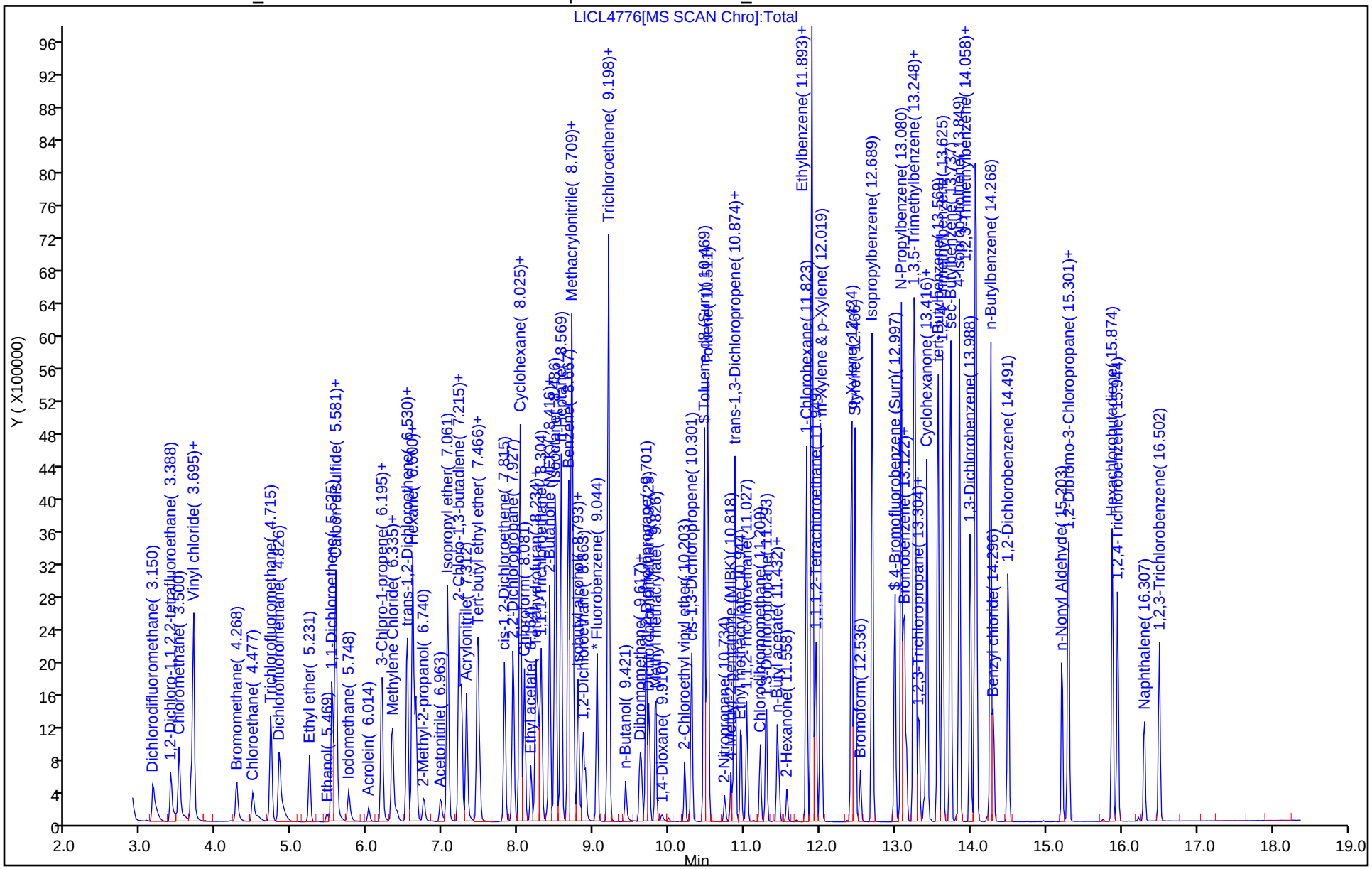
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8260 Surr 25_00099	Amount Added: 20.00	Units: uL	
I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 28-May-2019 11:55:24 Chrom Revision: 2.3 03-May-2019 15:52:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4776.D

Injection Date:	23-May-2019 14:01:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	IC			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

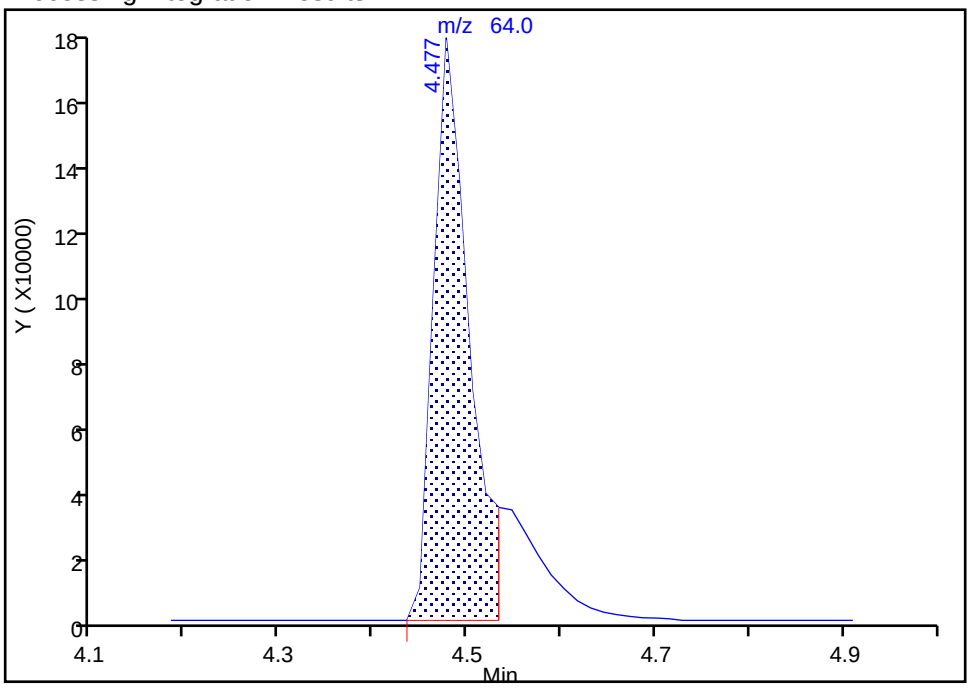
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Injection Date: 23-May-2019 14:01:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: KA ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

6 Chloroethane, CAS: 75-00-3

Signal: 1

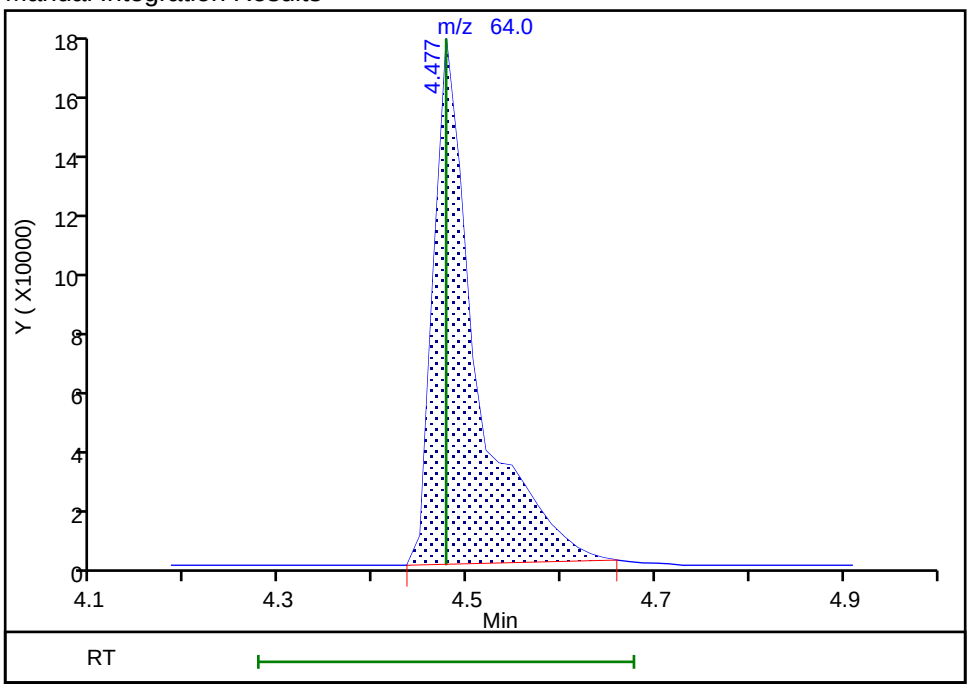
Processing Integration Results

RT: 4.48
Area: 460888
Amount: 70.623610
Amount Units: ug/l



Manual Integration Results

RT: 4.48
Area: 545294
Amount: 84.701555
Amount Units: ug/l



Reviewer: aguk, 28-May-2019 11:26:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 23-May-2019 14:26:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015160-011
Misc. Info.: IC
Operator ID: KA Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 28-May-2019 11:55:27 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0324

First Level Reviewer: aguk Date: 28-May-2019 11:22:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	1884690	200.0	202.4	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.402	3.388	0.014	96	822410	200.0	174.7	
3 Chloromethane	50	3.500	3.499	0.001	99	2284214	200.0	171.8	
4 Vinyl chloride	62	3.667	3.667	0.000	98	2174435	200.0	178.5	
122 Butadiene	39	3.695	3.695	0.000	89	1867915	200.0	165.4	
5 Bromomethane	94	4.268	4.268	0.000	91	912881	200.0	172.6	
6 Chloroethane	64	4.491	4.477	0.014	100	1238000	200.0	183.9	
7 Trichlorofluoromethane	101	4.729	4.714	0.015	98	2638504	200.0	179.9	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	97	3106755	200.0	186.6	
8 Ethyl ether	74	5.231	5.231	0.000	91	755649	200.0	207.3	
11 Ethanol	45	5.455	5.469	-0.014	100	337452	8000.0	8572.3	
9 1,1-Dichloroethene	96	5.539	5.525	0.014	95	1486809	200.0	196.1	
12 1,1,2-Trichloro-1,2,2-trif	151	5.580	5.580	0.000	55	1160075	200.0	184.1	
10 Carbon disulfide	76	5.580	5.580	0.000	99	5583401	200.0	184.0	
13 Iodomethane	142	5.748	5.748	0.000	99	1250954	200.0	202.3	
S 26 1,2-Dichloroethene, Total	96				0			394.2	
14 Acrolein	56	6.013	6.013	0.000	100	366664	1000.0	1135.4	
15 3-Chloro-1-propene	39	6.195	6.181	0.014	92	1958506	200.0	197.1	
16 Isopropyl alcohol	45	6.209	6.209	0.000	98	522931	2000.0	2203.8	
17 Methylene Chloride	84	6.335	6.335	0.000	96	1448155	200.0	190.6	
18 Acetone	43	6.391	6.390	0.001	100	219659	200.0	193.4	
19 trans-1,2-Dichloroethene	96	6.530	6.530	0.000	96	1678651	200.0	194.0	
20 Methyl acetate	74	6.530	6.530	0.000	97	250420	1000.0	1042.2	
21 Hexane	86	6.600	6.600	0.000	92	593001	200.0	196.7	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	82	3405013	200.0	212.5	
23 2-Methyl-2-propanol	59	6.740	6.740	0.000	99	885795	2000.0	2306.6	
24 Acetonitrile	41	6.963	6.963	0.000	99	845984	2000.0	2034.4	
25 Isopropyl ether	45	7.061	7.061	0.000	94	5156368	200.0	212.2	
27 2-Chloro-1,3-butadiene	53	7.215	7.214	0.001	92	3145149	200.0	214.6	
28 1,1-Dichloroethane	63	7.242	7.242	0.000	96	3280153	200.0	193.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.312	7.312	0.000	99	2862278	2000.0	2039.5	
30 Tert-butyl ethyl ether	59	7.466	7.466	0.000	98	4575117	200.0	215.7	
31 Vinyl acetate	43	7.494	7.494	0.000	97	2257405	200.0	211.3	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	1675197	200.0	200.2	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	90	2815646	200.0	197.9	
34 Cyclohexane	84	8.025	8.024	0.001	90	3134751	200.0	199.7	
35 Chlorobromomethane	128	8.025	8.024	0.001	52	498874	200.0	189.5	
36 Chloroform	83	8.080	8.080	0.000	94	2836937	200.0	195.0	
39 Ethyl acetate	45	8.164	8.164	0.000	99	240278	400.0	425.9	
37 Carbon tetrachloride	117	8.234	8.234	0.000	97	2237894	200.0	195.5	
38 Tetrahydrofuran	71	8.248	8.248	0.000	88	191400	400.0	460.4	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	1201840	200.0	192.6	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	98	2745542	200.0	196.4	
43 2-Butanone (MEK)	43	8.374	8.388	-0.014	99	339655	200.0	202.3	
42 1,1-Dichloropropene	75	8.416	8.416	0.000	96	2739151	200.0	204.3	
125 Isooctane	57	8.499	8.485	0.014	96	8688172	200.0	198.2	
117 n-Heptane	43	8.569	8.569	0.000	91	3641402	200.0	196.5	
44 Benzene	78	8.667	8.667	0.000	96	7180570	200.0	191.8	
45 Propionitrile	54	8.695	8.695	0.000	89	1120149	2000.0	1987.8	
46 Methacrylonitrile	41	8.709	8.709	0.000	92	5294585	2000.0	1933.6	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	98	3773690	200.0	210.6	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	1372373	200.0	188.1	
50 Isobutyl alcohol	42	8.793	8.793	0.000	95	617765	5000.0	5813.3	
49 1,2-Dichloroethane	62	8.863	8.862	0.001	97	1679913	200.0	195.3	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1670323	50.0	50.0	
53 Trichloroethene	95	9.198	9.198	0.000	60	1787142	200.0	190.8	
52 Methylcyclohexane	55	9.198	9.198	0.000	90	3022572	200.0	192.2	
54 n-Butanol	56	9.421	9.421	0.000	88	662896	5000.0	5258.6	
55 Dibromomethane	93	9.617	9.603	0.014	97	613055	200.0	201.4	
124 Ethyl acrylate	55	9.631	9.631	0.000	99	1205864	200.0	209.8	
56 1,2-Dichloropropane	63	9.701	9.700	0.001	96	1700757	200.0	202.4	
57 Dichlorobromomethane	83	9.728	9.728	0.000	99	1920951	200.0	208.6	
58 Methyl methacrylate	69	9.826	9.826	0.000	93	1409404	400.0	414.9	
59 1,4-Dioxane	88	9.910	9.910	0.000	97	165356	4000.0	4076.5	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	92	685575	200.0	209.1	
61 cis-1,3-Dichloropropene	75	10.301	10.301	0.000	95	2440853	200.0	216.6	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	5824212	200.0	201.3	
63 Toluene	92	10.511	10.510	0.001	98	4417660	200.0	206.0	
64 2-Nitropropane	43	10.734	10.734	0.000	97	522751	400.0	399.8	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	95	847086	200.0	244.0	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	94	1974880	200.0	220.8	
65 Tetrachloroethene	164	10.874	10.874	0.000	96	1386279	200.0	197.2	
69 Ethyl methacrylate	69	10.957	10.943	0.014	89	1468526	200.0	211.5	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	92	816705	200.0	209.2	
70 Chlorodibromomethane	129	11.209	11.209	0.000	91	962301	200.0	223.2	
71 1,3-Dichloropropane	76	11.293	11.293	0.000	92	1857471	200.0	213.2	
119 n-Butyl acetate	43	11.432	11.432	0.000	99	1502944	200.0	210.8	
72 Ethylene Dibromide	107	11.460	11.446	0.014	98	833711	200.0	216.1	
74 2-Hexanone	43	11.558	11.558	0.000	96	566594	200.0	212.2	
S 73 1,3-Dichloropropene, Total	75				0			437.4	
75 1-Chlorohexane	91	11.823	11.823	0.000	98	2927851	200.0	225.4	
* 76 Chlorobenzene-d5	117	11.893	11.879	0.014	94	996255	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.893	11.893	0.000	99	8359793	200.0	199.4	
77 Chlorobenzene	112	11.907	11.907	0.000	95	3934820	200.0	192.7	
79 1,1,1,2-Tetrachloroethane	131	11.949	11.949	0.000	95	1215038	200.0	206.4	
80 m-Xylene & p-Xylene	106	12.019	12.019	0.000	100	3191947	200.0	211.8	
82 o-Xylene	106	12.424	12.424	0.000	97	2885030	200.0	219.5	
83 Styrene	104	12.466	12.466	0.000	95	4485942	200.0	229.4	
84 Bromoform	173	12.536	12.536	0.000	97	616373	200.0	242.5	
85 Isopropylbenzene	105	12.689	12.689	0.000	97	7976091	200.0	215.6	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.996	0.001	89	1990968	200.0	214.4	
88 N-Propylbenzene	91	13.080	13.080	0.000	98	9989243	200.0	211.9	
87 Bromobenzene	156	13.122	13.122	0.000	96	1494216	200.0	205.9	
89 1,1,2,2-Tetrachloroethane	83	13.150	13.150	0.000	94	1020104	200.0	214.2	
91 1,3,5-Trimethylbenzene	105	13.248	13.248	0.000	94	6415619	200.0	217.7	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	6334175	200.0	207.0	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	87	288062	200.0	213.1	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	88	345823	200.0	226.9	
94 Cyclohexanone	55	13.388	13.388	0.000	92	293803	2000.0	1997.8	
95 4-Chlorotoluene	91	13.416	13.415	0.001	98	5795131	200.0	215.0	
96 tert-Butylbenzene	119	13.569	13.569	0.000	92	5551857	200.0	213.5	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	98	6280160	200.0	214.6	
98 sec-Butylbenzene	105	13.737	13.737	0.000	95	8823540	200.0	209.4	
99 4-Isopropyltoluene	119	13.848	13.848	0.000	97	7081732	200.0	213.1	
100 1,3-Dichlorobenzene	146	14.002	13.988	0.014	97	3030092	200.0	206.2	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	99	5926336	200.0	208.6	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	80	457973	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	90	2879905	200.0	197.1	
103 n-Butylbenzene	134	14.267	14.267	0.000	96	1661591	200.0	212.7	
121 Benzyl chloride	126	14.295	14.295	0.000	97	390535	200.0	240.6	
104 1,2-Dichlorobenzene	146	14.505	14.491	0.014	97	2604248	200.0	205.7	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	91	834686	200.0	202.5	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	80	168888	200.0	239.7	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	96	2397259	200.0	204.8	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	95	1616367	200.0	206.9	
109 1,2,4-Trichlorobenzene	180	15.943	15.943	0.000	94	1838978	200.0	214.0	
110 Naphthalene	128	16.307	16.306	0.001	98	2261806	200.0	234.9	
S 112 Xylenes, Total	106				0			431.3	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	94	1466607	200.0	210.1	
S 113 Trihalomethanes, Total	1				0			869.2	

Reagents:

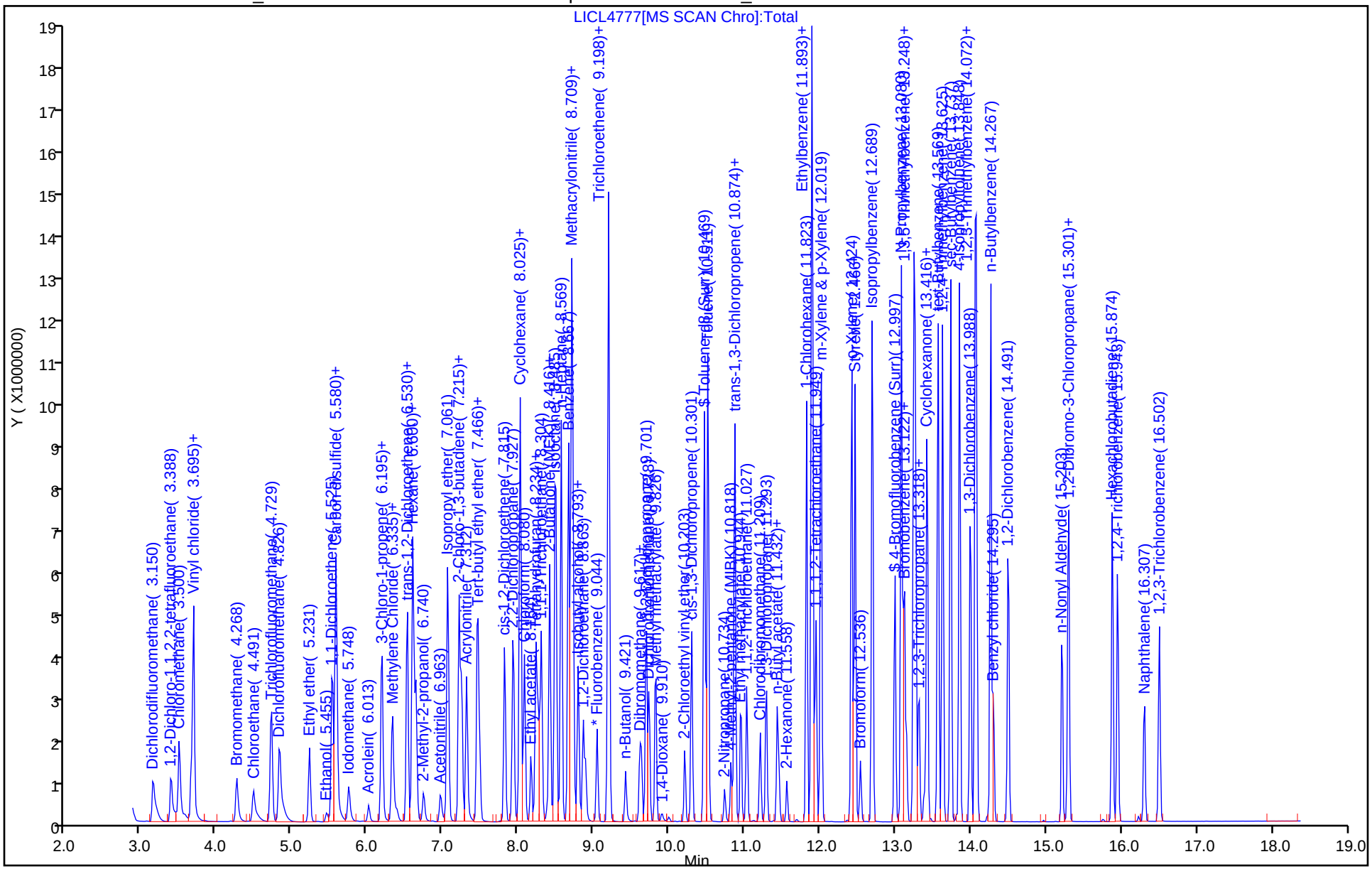
8260NewHiWrk_00298	Amount Added: 8.00	Units: uL	
8260_Surr_00081	Amount Added: 0.40	Units: uL	
I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 28-May-2019 11:55:28 Chrom Revision: 2.3 03-May-2019 15:52:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Injection Date:	23-May-2019 14:26:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	IC			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Lab Sample ID: ICV 160-429557/14 Calibration Date: 05/23/2019 15:42

Instrument ID: VMSL Calib Start Date: 05/23/2019 11:32

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 05/23/2019 14:26

Lab File ID: LICV4780.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	QuaF		0.3828	0.1000	58.7	50.0	17.5	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1409	0.1320	0.0100	46.9	50.0	-6.3	20.0
Chloromethane	Ave	0.3979	0.4004	0.1000	50.3	50.0	0.6	20.0
Vinyl chloride	Ave	0.3646	0.3745	0.1000	51.4	50.0	2.7	20.0
Butadiene	Ave	0.3380	0.3234	0.0100	47.8	50.0	-4.3	20.0
Bromomethane	Ave	0.1583	0.1567	0.1000	49.5	50.0	-1.0	20.0
Chloroethane	Ave	0.2015	0.1657	0.1000	41.1	50.0	-17.8	20.0
Trichlorofluoromethane	Ave	0.4390	0.4401	0.1000	50.1	50.0	0.3	20.0
Dichlorofluoromethane	Ave	0.4984	0.4962	0.0100	49.8	50.0	-0.4	20.0
Ethyl ether	Ave	0.1091	0.1141	0.0100	52.3	50.0	4.6	20.0
1,1-Dichloroethene	Ave	0.2270	0.2361	0.1000	52.0	50.0	4.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1886	0.1824	0.1000	48.3	50.0	-3.3	20.0
Carbon disulfide	Ave	0.9085	0.8800	0.1000	48.4	50.0	-3.1	20.0
Iodomethane	Lin1		0.1409	0.0100	41.6	50.0	-16.8	20.0
Acrolein	Ave	0.0097	0.0106	0.0010	274	250	9.6	20.0
3-Chloro-1-propene	Ave	0.2974	0.3045	0.0100	51.2	50.0	2.4	20.0
Methylene Chloride	Ave	0.2274	0.2171	0.1000	47.7	50.0	-4.6	20.0
Acetone	Ave	0.0340	0.0322*	0.1000	47.4	50.0	-5.3	20.0
Methyl acetate	Ave	0.0072	0.0072*	0.1000	251	250	0.4	20.0
trans-1,2-Dichloroethene	Ave	0.2590	0.2613	0.1000	50.4	50.0	0.9	20.0
Hexane	Ave	0.0902	0.0952	0.0100	52.7	50.0	5.5	20.0
Methyl tert-butyl ether	Ave	0.4796	0.4925	0.1000	51.3	50.0	2.7	20.0
Acetonitrile	Ave	0.0124	0.0119	0.0010	476	500	-4.7	20.0
2-Chloro-1,3-butadiene	Ave	0.4387	0.4578	0.0100	52.2	50.0	4.4	20.0
1,1-Dichloroethane	Ave	0.5089	0.4970	0.2000	48.8	50.0	-2.3	20.0
Acrylonitrile	Ave	0.0420	0.0416	0.0100	495	500	-1.0	20.0
Vinyl acetate	Ave	0.3198	0.3024	0.0100	47.3	50.0	-5.4	20.0
cis-1,2-Dichloroethene	Ave	0.2505	0.2545	0.1000	50.8	50.0	1.6	20.0
2,2-Dichloropropane	Ave	0.4259	0.4147	0.0100	48.7	50.0	-2.6	20.0
Bromochloromethane	Ave	0.0788	0.0761	0.0100	48.3	50.0	-3.4	20.0
Cyclohexane	Ave	0.4699	0.4830	0.1000	51.4	50.0	2.8	20.0
Chloroform	Ave	0.4355	0.4327	0.2000	49.7	50.0	-0.6	20.0
Ethyl acetate	Ave	0.0169	0.0163	0.0100	96.7	100	-3.3	20.0
Carbon tetrachloride	Ave	0.3426	0.3362	0.1000	49.1	50.0	-1.9	20.0
Tetrahydrofuran	Ave	0.0124	0.0130	0.0010	105	100	4.7	20.0
1,1,1-Trichloroethane	Ave	0.4184	0.4202	0.1000	50.2	50.0	0.4	20.0
2-Butanone (MEK)	Ave	0.0502	0.0517*	0.1000	51.4	50.0	2.8	20.0
1,1-Dichloropropene	Ave	0.4014	0.4062	0.0100	50.6	50.0	1.2	20.0
Benzene	Ave	1.121	1.088	0.5000	48.5	50.0	-2.9	20.0
Propionitrile	Ave	0.0169	0.0166	0.0010	491	500	-1.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Lab Sample ID: ICV 160-429557/14 Calibration Date: 05/23/2019 15:42

Instrument ID: VMSL Calib Start Date: 05/23/2019 11:32

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 05/23/2019 14:26

Lab File ID: LICV4780.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methacrylonitrile	Ave	0.0820	0.0819	0.0100	500	500	-0.0	20.0
Isobutyl alcohol	Ave	0.0032	0.0034	0.0010	1330	1250	6.8	20.0
1,2-Dichloroethane	Ave	0.2575	0.2506	0.1000	48.6	50.0	-2.7	20.0
Methylcyclohexane	Ave	0.4708	0.4663	0.1000	49.5	50.0	-1.0	20.0
Trichloroethene	Ave	0.2804	0.2762	0.2000	49.2	50.0	-1.5	20.0
n-Butanol	Lin1		0.0034*	0.0100	1180	1250	-5.5	20.0
Dibromomethane	Ave	0.0911	0.0897	0.0100	49.2	50.0	-1.6	20.0
1,2-Dichloropropane	Ave	0.2515	0.2575	0.1000	51.2	50.0	2.4	20.0
Bromodichloromethane	Ave	0.2757	0.2857	0.2000	51.8	50.0	3.6	20.0
Methyl methacrylate	Lin1		0.0955	0.0100	97.7	100	-2.3	20.0
1,4-Dioxane	Lin1		0.0012	0.0010	988	1000	-1.2	20.0
2-Chloroethyl vinyl ether	Lin1		0.0905	0.0100	48.2	50.0	-3.5	20.0
cis-1,3-Dichloropropene	Ave	0.3373	0.3547	0.2000	52.6	50.0	5.2	20.0
Toluene	Ave	1.076	1.099	0.4000	51.1	50.0	2.1	20.0
2-Nitropropane	Qua		0.0518	0.0100	102	100	2.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1743	0.1887	0.1000	54.1	50.0	8.3	20.0
Tetrachloroethene	Ave	0.3528	0.3541	0.2000	50.2	50.0	0.4	20.0
trans-1,3-Dichloropropene	Ave	0.4489	0.4621	0.1000	51.5	50.0	2.9	20.0
Ethyl methacrylate	Lin1		0.2981	0.0100	45.5	50.0	-9.0	20.0
1,1,2-Trichloroethane	Ave	0.1960	0.2038	0.1000	52.0	50.0	4.0	20.0
Dibromochloromethane	Ave	0.2164	0.2319	0.1000	53.6	50.0	7.2	20.0
1,3-Dichloropropane	Ave	0.4372	0.4423	0.0100	50.6	50.0	1.2	20.0
1,2-Dibromoethane	Ave	0.1936	0.1981	0.1000	51.2	50.0	2.3	20.0
2-Hexanone	Lin1		0.1242	0.1000	48.4	50.0	-3.1	20.0
Ethylbenzene	Ave	2.104	2.155	0.1000	51.2	50.0	2.4	20.0
Chlorobenzene	Ave	1.025	1.032	0.5000	50.3	50.0	0.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2954	0.3070	0.0100	52.0	50.0	3.9	20.0
m,p-Xylenes	Ave	0.7565	0.7941	0.1000	52.5	50.0	5.0	20.0
o-Xylene	Ave	0.6597	0.7216	0.3000	54.7	50.0	9.4	20.0
Styrene	Ave	0.9813	1.042	0.3000	53.1	50.0	6.2	20.0
Bromoform	Ave	0.2775	0.3023	0.1000	54.5	50.0	8.9	20.0
Isopropylbenzene	Ave	4.038	4.382	0.1000	54.3	50.0	8.5	20.0
N-Propylbenzene	Ave	5.147	5.505	0.0100	53.5	50.0	6.9	20.0
Bromobenzene	Ave	0.7923	0.8101	0.0100	51.1	50.0	2.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5199	0.5254	0.3000	50.5	50.0	1.1	20.0
1,3,5-Trimethylbenzene	Ave	3.218	3.470	0.0100	53.9	50.0	7.8	20.0
2-Chlorotoluene	Ave	3.341	3.473	0.0100	52.0	50.0	4.0	20.0
1,2,3-Trichloropropane	Ave	0.1476	0.1569	0.0100	53.2	50.0	6.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1664	0.1720	0.0100	51.7	50.0	3.4	20.0
Cyclohexanone	Qua		0.0128	0.0010	511	500	2.3	20.0
4-Chlorotoluene	Ave	2.943	3.090	0.0100	52.5	50.0	5.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Lab Sample ID: ICV 160-429557/14 Calibration Date: 05/23/2019 15:42

Instrument ID: VMSL Calib Start Date: 05/23/2019 11:32

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 05/23/2019 14:26

Lab File ID: LICV4780.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
tert-Butylbenzene	Ave	2.840	3.108	0.0100	54.7	50.0	9.5	20.0
1,2,4-Trimethylbenzene	Ave	3.194	3.435	0.0100	53.8	50.0	7.5	20.0
sec-Butylbenzene	Ave	4.599	4.952	0.0100	53.8	50.0	7.7	20.0
p-Isopropyltoluene	Ave	3.628	3.982	0.0100	54.9	50.0	9.8	20.0
1,3-Dichlorobenzene	Ave	1.605	1.636	0.6000	51.0	50.0	2.0	20.0
1,4-Dichlorobenzene	Ave	1.596	1.625	0.5000	50.9	50.0	1.8	20.0
n-Butylbenzene	Ave	0.8528	0.9277	0.0100	54.4	50.0	8.8	20.0
1,2-Dichlorobenzene	Ave	1.383	1.394	0.4000	50.4	50.0	0.8	20.0
n-Nonyl Aldehyde	Lin		0.3138	0.0100	41.5	50.0	-17.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0769	0.0845	0.0500	54.9	50.0	9.9	20.0
1,3,5-Trichlorobenzene	Ave	1.278	1.338	0.0100	52.4	50.0	4.7	20.0
Hexachlorobutadiene	Ave	0.8530	0.9402	0.0100	55.1	50.0	10.2	20.0
1,2,4-Trichlorobenzene	Ave	0.9380	0.996	0.2000	53.1	50.0	6.2	20.0
Naphthalene	Ave	1.051	1.145	0.0100	54.4	50.0	8.9	20.0
1,2,3-Trichlorobenzene	Ave	0.7622	0.8186	0.0100	53.7	50.0	7.4	20.0
Dibromofluoromethane (Surr)	Ave	0.1868	0.1857	0.0100	49.7	50.0	-0.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2184	0.2158	0.0100	49.4	50.0	-1.2	20.0
Toluene-d8 (Surr)	Ave	1.452	1.520	0.0100	52.3	50.0	4.7	20.0
4-Bromofluorobenzene (Surr)	Ave	1.014	1.075	0.0100	53.0	50.0	6.1	20.0

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICV4780.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 23-May-2019 15:42:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015160-014
Misc. Info.: ICV
Operator ID: KA Instrument ID: VMSL
Sublist:

Method: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 28-May-2019 12:30:23 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0306

First Level Reviewer: aguk Date: 12-Jun-2019 10:35:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	615196	50.0	58.7	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	96	212162	50.0	46.9	
3 Chloromethane	50	3.499	3.499	0.000	99	643406	50.0	50.3	
4 Vinyl chloride	62	3.667	3.667	0.000	98	601797	50.0	51.4	
122 Butadiene	39	3.695	3.695	0.000	90	519719	50.0	47.8	
5 Bromomethane	94	4.268	4.268	0.000	91	251806	50.0	49.5	
6 Chloroethane	64	4.477	4.477	0.000	99	266304	50.0	41.1	
7 Trichlorofluoromethane	101	4.715	4.714	0.001	98	707218	50.0	50.1	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	97	797372	50.0	49.8	
8 Ethyl ether	74	5.231	5.231	0.000	92	183403	50.0	52.3	
11 Ethanol	45	5.469	5.469	0.000	100	74551	2000.0	1968.5	
9 1,1-Dichloroethene	96	5.525	5.525	0.000	94	379344	50.0	52.0	
12 1,1,2-Trichloro-1,2,2-trif	151	5.580	5.580	0.000	96	293045	50.0	48.3	
10 Carbon disulfide	76	5.580	5.580	0.000	100	1414059	50.0	48.4	
13 Iodomethane	142	5.748	5.748	0.000	99	226348	50.0	41.6	
14 Acrolein	56	6.013	6.013	0.000	100	85124	250.0	274.0	
15 3-Chloro-1-propene	39	6.195	6.181	0.014	92	489333	50.0	51.2	
16 Isopropyl alcohol	45	6.209	6.209	0.000	97	118723	500.0	520.1	
17 Methylene Chloride	84	6.335	6.335	0.000	96	348785	50.0	47.7	
18 Acetone	43	6.391	6.390	0.000	99	51756	50.0	47.4	
19 trans-1,2-Dichloroethene	96	6.530	6.530	0.000	95	419884	50.0	50.4	
20 Methyl acetate	74	6.530	6.530	0.000	97	58021	250.0	251.0	
21 Hexane	86	6.600	6.600	0.000	92	152955	50.0	52.7	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	85	791385	50.0	51.3	
23 2-Methyl-2-propanol	59	6.754	6.740	0.014	98	201736	500.0	546.1	
24 Acetonitrile	41	6.963	6.963	0.000	100	190623	500.0	476.5	
25 Isopropyl ether	45	7.061	7.061	0.000	94	1198351	50.0	51.3	
27 2-Chloro-1,3-butadiene	53	7.215	7.214	0.000	93	735655	50.0	52.2	
28 1,1-Dichloroethane	63	7.242	7.242	0.000	97	798553	50.0	48.8	
29 Acrylonitrile	53	7.312	7.312	0.000	99	668556	500.0	495.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.466	7.466	0.000	98	1040791	50.0	51.0	
31 Vinyl acetate	43	7.494	7.494	0.000	97	485995	50.0	47.3	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	408989	50.0	50.8	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	90	666443	50.0	48.7	
34 Cyclohexane	84	8.025	8.024	0.001	90	776115	50.0	51.4	
35 Chlorobromomethane	128	8.025	8.024	0.001	52	122298	50.0	48.3	
36 Chloroform	83	8.080	8.080	0.000	94	695360	50.0	49.7	
39 Ethyl acetate	45	8.164	8.164	0.000	99	52487	100.0	96.7	
37 Carbon tetrachloride	117	8.234	8.234	0.000	97	540313	50.0	49.1	
38 Tetrahydrofuran	71	8.248	8.248	0.000	88	41881	100.0	104.7	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	93	298362	50.0	49.7	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	98	675265	50.0	50.2	
43 2-Butanone (MEK)	43	8.388	8.388	0.000	99	83026	50.0	51.4	
42 1,1-Dichloropropene	75	8.416	8.416	0.000	96	652779	50.0	50.6	
125 Isooctane	57	8.485	8.485	0.000	96	2160979	50.0	51.2	
117 n-Heptane	43	8.569	8.569	0.000	92	913839	50.0	51.3	
44 Benzene	78	8.667	8.667	0.000	96	1748362	50.0	48.5	
45 Propionitrile	54	8.695	8.695	0.000	94	266078	500.0	490.8	
46 Methacrylonitrile	41	8.709	8.709	0.000	93	1316174	500.0	499.6	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	98	890988	50.0	51.7	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	99	346709	50.0	49.4	
50 Isobutyl alcohol	42	8.793	8.793	0.000	92	136446	1250.0	1334.7	
49 1,2-Dichloroethane	62	8.863	8.862	0.001	97	402640	50.0	48.6	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1606917	50.0	50.0	
53 Trichloroethene	95	9.198	9.198	0.000	61	443767	50.0	49.2	
52 Methylcyclohexane	55	9.198	9.198	0.000	91	749219	50.0	49.5	
54 n-Butanol	56	9.421	9.421	0.000	90	137321	1250.0	1181.7	
55 Dibromomethane	93	9.617	9.603	0.014	96	144116	50.0	49.2	
124 Ethyl acrylate	55	9.631	9.631	0.000	99	249062	50.0	47.0	
56 1,2-Dichloropropane	63	9.701	9.700	0.000	95	413793	50.0	51.2	
57 Dichlorobromomethane	83	9.728	9.728	0.000	98	459086	50.0	51.8	
58 Methyl methacrylate	69	9.826	9.826	0.000	92	306917	100.0	97.7	
59 1,4-Dioxane	88	9.910	9.910	0.000	99	37170	1000.0	987.7	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	92	145463	50.0	48.2	
61 cis-1,3-Dichloropropene	75	10.301	10.301	0.000	94	570006	50.0	52.6	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	1487317	50.0	52.3	
63 Toluene	92	10.511	10.510	0.001	98	1075719	50.0	51.1	
64 2-Nitropropane	43	10.734	10.734	0.000	98	101328	100.0	102.2	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	97	184601	50.0	54.1	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	94	452186	50.0	51.5	
65 Tetrachloroethene	164	10.874	10.874	0.000	94	346453	50.0	50.2	
69 Ethyl methacrylate	69	10.957	10.943	0.014	90	291658	50.0	45.5	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	92	199384	50.0	52.0	
70 Chlorodibromomethane	129	11.209	11.209	0.000	90	226934	50.0	53.6	
71 1,3-Dichloropropane	76	11.293	11.293	0.000	92	432835	50.0	50.6	
119 n-Butyl acetate	43	11.432	11.432	0.000	98	315298	50.0	47.2	
72 Ethylene Dibromide	107	11.460	11.446	0.014	97	193811	50.0	51.2	
74 2-Hexanone	43	11.558	11.558	0.000	96	121507	50.0	48.4	
75 1-Chlorohexane	91	11.823	11.823	0.000	99	690722	50.0	54.1	
* 76 Chlorobenzene-d5	117	11.893	11.879	0.014	93	978512	50.0	50.0	
78 Ethylbenzene	91	11.893	11.893	0.000	98	2108816	50.0	51.2	
77 Chlorobenzene	112	11.907	11.907	0.000	91	1009481	50.0	50.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
79 1,1,1,2-Tetrachloroethane	131	11.949	11.949	0.000	94	300390	50.0	52.0	
80 m-Xylene & p-Xylene	106	12.019	12.019	0.000	100	777028	50.0	52.5	
82 o-Xylene	106	12.424	12.424	0.000	97	706107	50.0	54.7	
83 Styrene	104	12.466	12.466	0.000	95	1019790	50.0	53.1	
84 Bromoform	173	12.536	12.536	0.000	96	138992	50.0	54.5	
85 Isopropylbenzene	105	12.689	12.689	0.000	97	2015007	50.0	54.3	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.996	0.001	90	494319	50.0	53.0	
88 N-Propylbenzene	91	13.080	13.080	0.000	99	2531125	50.0	53.5	
87 Bromobenzene	156	13.122	13.122	0.000	94	372493	50.0	51.1	
89 1,1,2,2-Tetrachloroethane	83	13.150	13.150	0.000	95	241570	50.0	50.5	
91 1,3,5-Trimethylbenzene	105	13.248	13.248	0.000	94	1595756	50.0	53.9	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	1597101	50.0	52.0	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	87	72151	50.0	53.2	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	95	79106	50.0	51.7	
94 Cyclohexanone	55	13.388	13.388	0.000	93	58608	500.0	511.4	
95 4-Chlorotoluene	91	13.416	13.415	0.001	98	1420866	50.0	52.5	
96 tert-Butylbenzene	119	13.569	13.569	0.000	93	1429320	50.0	54.7	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	98	1579514	50.0	53.8	
98 sec-Butylbenzene	105	13.737	13.737	0.000	95	2276986	50.0	53.8	
99 4-Isopropyltoluene	119	13.848	13.848	0.000	97	1831172	50.0	54.9	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	96	752305	50.0	51.0	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	97	1523187	50.0	53.4	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	71	459816	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	89	747002	50.0	50.9	
103 n-Butylbenzene	134	14.267	14.267	0.000	97	426568	50.0	54.4	
121 Benzyl chloride	126	14.295	14.295	0.000	94	81806	50.0	50.2	
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	95	640993	50.0	50.4	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	89	144292	50.0	41.5	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	68	38869	50.0	54.9	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	96	615191	50.0	52.4	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	95	432329	50.0	55.1	
109 1,2,4-Trichlorobenzene	180	15.943	15.943	0.000	94	457848	50.0	53.1	
110 Naphthalene	128	16.307	16.306	0.001	98	526288	50.0	54.4	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	94	376403	50.0	53.7	

Reagents:

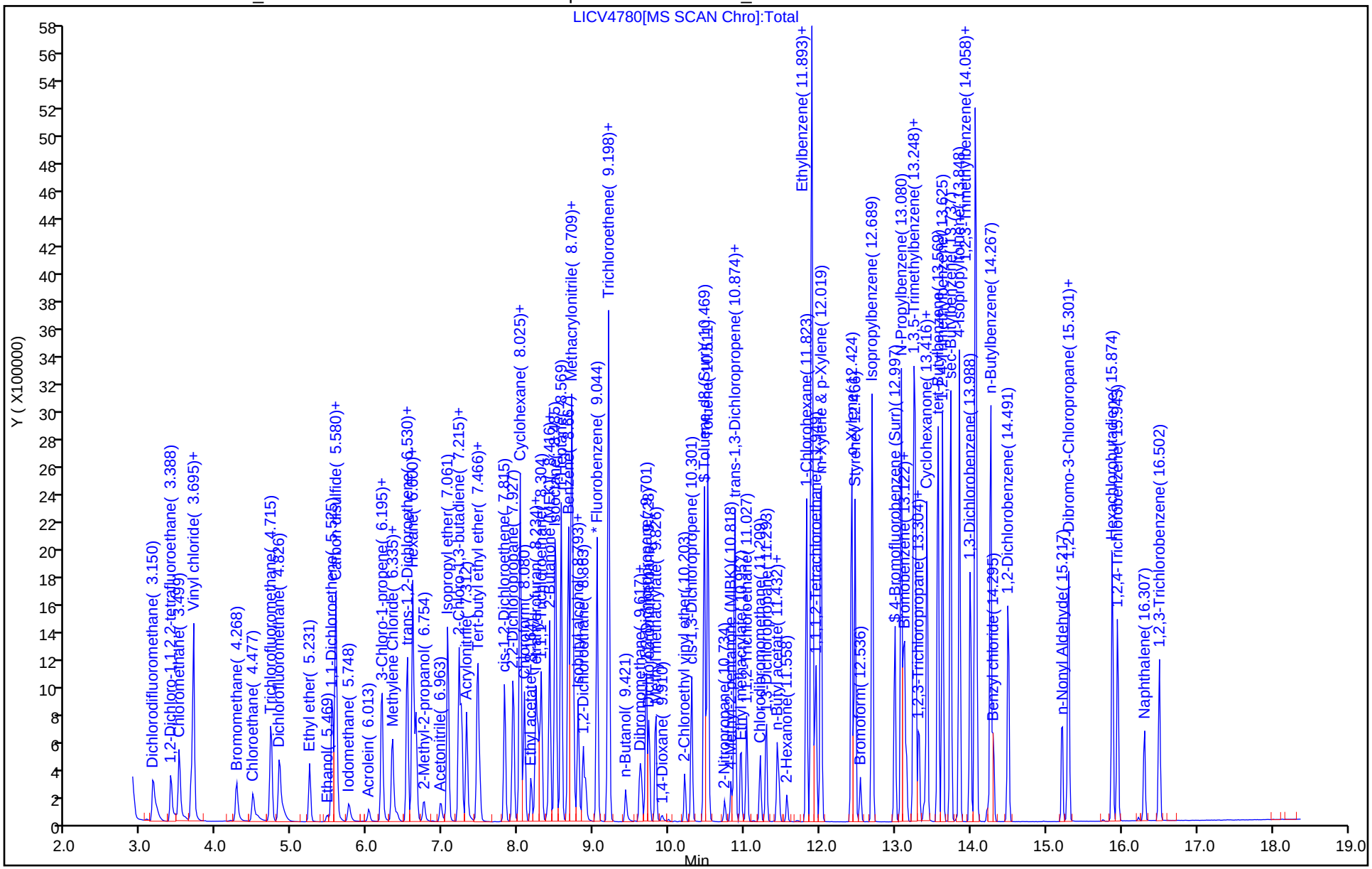
8260NewICVMix_00314	Amount Added: 10.00	Units: uL	
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	
I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 12-Jun-2019 10:35:51 Chrom Revision: 2.3 03-May-2019 15:52:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICV4780.D

Injection Date:	23-May-2019 15:42:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	ICV			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Lab Sample ID: CCV 160-431879/3 Calibration Date: 06/17/2019 11:09

Instrument ID: VMSL Calib Start Date: 05/23/2019 11:32

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 05/23/2019 14:26

Lab File ID: LCCV4868.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	QuaF		0.3812	0.1000	58.5	50.0	17.0	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1409	0.1088	0.0100	38.6	50.0	-22.8*	20.0
Chloromethane	Ave	0.3979	0.4072	0.1000	51.2	50.0	2.3	20.0
Vinyl chloride	Ave	0.3646	0.3846	0.1000	52.7	50.0	5.5	20.0
Butadiene	Ave	0.3380	0.3748	0.0100	55.4	50.0	10.9	20.0
Bromomethane	Ave	0.1583	0.1486	0.1000	46.9	50.0	-6.1	20.0
Chloroethane	Ave	0.2015	0.2150	0.1000	53.3	50.0	6.7	20.0
Trichlorofluoromethane	Ave	0.4390	0.4525	0.1000	51.5	50.0	3.1	20.0
Dichlorofluoromethane	Ave	0.4984	0.5073	0.0100	50.9	50.0	1.8	20.0
Ethyl ether	Ave	0.1091	0.1152	0.0100	52.8	50.0	5.6	20.0
1,1-Dichloroethene	Ave	0.2270	0.2370	0.1000	52.2	50.0	4.4	20.0
Carbon disulfide	Ave	0.9085	0.9647	0.1000	53.1	50.0	6.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1886	0.1928	0.1000	51.1	50.0	2.2	20.0
Iodomethane	Lin1		0.1712	0.0100	49.6	50.0	-0.8	20.0
Acrolein	Ave	0.0097	0.0139	0.0010	359	250	43.5*	20.0
3-Chloro-1-propene	Ave	0.2974	0.3108	0.0100	52.3	50.0	4.5	20.0
Methylene Chloride	Ave	0.2274	0.2282	0.1000	50.2	50.0	0.4	20.0
Acetone	Ave	0.0340	0.0346*	0.1000	50.9	50.0	1.9	20.0
trans-1,2-Dichloroethene	Ave	0.2590	0.2690	0.1000	51.9	50.0	3.9	20.0
Methyl acetate	Ave	0.0072	0.0075*	0.1000	260	250	4.2	20.0
Hexane	Ave	0.0902	0.1000	0.0100	55.4	50.0	10.8	20.0
Methyl tert-butyl ether	Ave	0.4796	0.4866	0.1000	50.7	50.0	1.5	20.0
Acetonitrile	Ave	0.0124	0.0130	0.0010	522	500	4.4	20.0
2-Chloro-1,3-butadiene	Ave	0.4387	0.4611	0.0100	52.6	50.0	5.1	20.0
1,1-Dichloroethane	Ave	0.5089	0.5138	0.2000	50.5	50.0	1.0	20.0
Acrylonitrile	Ave	0.0420	0.0432	0.0100	514	500	2.9	20.0
Vinyl acetate	Ave	0.3198	0.3494	0.0100	54.6	50.0	9.3	20.0
cis-1,2-Dichloroethene	Ave	0.2505	0.2548	0.1000	50.9	50.0	1.7	20.0
2,2-Dichloropropane	Ave	0.4259	0.4469	0.0100	52.5	50.0	4.9	20.0
Bromochloromethane	Ave	0.0788	0.0790	0.0100	50.2	50.0	0.3	20.0
Cyclohexane	Ave	0.4699	0.5037	0.1000	53.6	50.0	7.2	20.0
Chloroform	Ave	0.4355	0.4298	0.2000	49.3	50.0	-1.3	20.0
Ethyl acetate	Ave	0.0169	0.0169	0.0100	100	100	0.2	20.0
Carbon tetrachloride	Ave	0.3426	0.3454	0.1000	50.4	50.0	0.8	20.0
Tetrahydrofuran	Ave	0.0124	0.0134	0.0010	108	100	7.5	20.0
1,1,1-Trichloroethane	Ave	0.4184	0.4231	0.1000	50.6	50.0	1.1	20.0
2-Butanone (MEK)	Ave	0.0502	0.0506*	0.1000	50.4	50.0	0.7	20.0
1,1-Dichloropropene	Ave	0.4014	0.4258	0.0100	53.0	50.0	6.1	20.0
Benzene	Ave	1.121	1.128	0.5000	50.3	50.0	0.6	20.0
Propionitrile	Ave	0.0169	0.0172	0.0010	509	500	1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Lab Sample ID: CCV 160-431879/3 Calibration Date: 06/17/2019 11:09

Instrument ID: VMSL Calib Start Date: 05/23/2019 11:32

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 05/23/2019 14:26

Lab File ID: LCCV4868.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methacrylonitrile	Ave	0.0820	0.0828	0.0100	505	500	1.0	20.0
Isobutyl alcohol	Ave	0.0032	0.0035	0.0010	1390	1250	11.0	20.0
1,2-Dichloroethane	Ave	0.2575	0.2556	0.1000	49.6	50.0	-0.7	20.0
Methylcyclohexane	Ave	0.4708	0.4956	0.1000	52.6	50.0	5.3	20.0
Trichloroethene	Ave	0.2804	0.2802	0.2000	50.0	50.0	-0.0	20.0
n-Butanol	Lin1		0.0037*	0.0100	1270	1250	1.2	20.0
Dibromomethane	Ave	0.0911	0.0913	0.0100	50.1	50.0	0.1	20.0
1,2-Dichloropropane	Ave	0.2515	0.2580	0.1000	51.3	50.0	2.6	20.0
Bromodichloromethane	Ave	0.2757	0.2778	0.2000	50.4	50.0	0.8	20.0
Methyl methacrylate	Lin1		0.0938	0.0100	96.0	100	-4.0	20.0
1,4-Dioxane	Lin1		0.0012	0.0010	1030	1000	3.2	20.0
2-Chloroethyl vinyl ether	Lin1		0.0854	0.0100	45.6	50.0	-8.7	20.0
cis-1,3-Dichloropropene	Ave	0.3373	0.3604	0.2000	53.4	50.0	6.9	20.0
Toluene	Ave	1.076	1.085	0.4000	50.4	50.0	0.8	20.0
2-Nitropropane	Qua		0.0534	0.0100	105	100	5.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1743	0.1866	0.1000	53.5	50.0	7.1	20.0
Tetrachloroethene	Ave	0.3528	0.3606	0.2000	51.1	50.0	2.2	20.0
trans-1,3-Dichloropropene	Ave	0.4489	0.4696	0.1000	52.3	50.0	4.6	20.0
Ethyl methacrylate	Lin1		0.3013	0.0100	46.0	50.0	-8.1	20.0
1,1,2-Trichloroethane	Ave	0.1960	0.1925	0.1000	49.1	50.0	-1.8	20.0
Dibromochloromethane	Ave	0.2164	0.2185	0.1000	50.5	50.0	1.0	20.0
1,3-Dichloropropane	Ave	0.4372	0.4364	0.0100	49.9	50.0	-0.2	20.0
1,2-Dibromoethane	Ave	0.1936	0.1942	0.1000	50.2	50.0	0.3	20.0
2-Hexanone	Lin1		0.1274	0.1000	49.6	50.0	-0.8	20.0
Ethylbenzene	Ave	2.104	2.120	0.1000	50.4	50.0	0.8	20.0
Chlorobenzene	Ave	1.025	1.017	0.5000	49.6	50.0	-0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2954	0.2937	0.0100	49.7	50.0	-0.6	20.0
m,p-Xylenes	Ave	0.7565	0.7861	0.1000	52.0	50.0	3.9	20.0
o-Xylene	Ave	0.6597	0.7035	0.3000	53.3	50.0	6.6	20.0
Styrene	Ave	0.9813	1.069	0.3000	54.5	50.0	9.0	20.0
Bromoform	Ave	0.2775	0.3023	0.1000	54.5	50.0	8.9	20.0
Isopropylbenzene	Ave	4.038	4.244	0.1000	52.5	50.0	5.1	20.0
N-Propylbenzene	Ave	5.147	5.411	0.0100	52.6	50.0	5.1	20.0
Bromobenzene	Ave	0.7923	0.8012	0.0100	50.6	50.0	1.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5199	0.5280	0.3000	50.8	50.0	1.6	20.0
1,3,5-Trimethylbenzene	Ave	3.218	3.433	0.0100	53.3	50.0	6.7	20.0
2-Chlorotoluene	Ave	3.341	3.383	0.0100	50.6	50.0	1.3	20.0
1,2,3-Trichloropropane	Ave	0.1476	0.1490	0.0100	50.5	50.0	0.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1664	0.1724	0.0100	51.8	50.0	3.6	20.0
Cyclohexanone	Qua		0.0134	0.0010	533	500	6.6	20.0
4-Chlorotoluene	Ave	2.943	3.074	0.0100	52.2	50.0	4.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Lab Sample ID: CCV 160-431879/3 Calibration Date: 06/17/2019 11:09

Instrument ID: VMSL Calib Start Date: 05/23/2019 11:32

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 05/23/2019 14:26

Lab File ID: LCCV4868.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
tert-Butylbenzene	Ave	2.840	3.030	0.0100	53.4	50.0	6.7	20.0
1,2,4-Trimethylbenzene	Ave	3.194	3.401	0.0100	53.2	50.0	6.5	20.0
sec-Butylbenzene	Ave	4.599	4.848	0.0100	52.7	50.0	5.4	20.0
p-Isopropyltoluene	Ave	3.628	3.895	0.0100	53.7	50.0	7.4	20.0
1,3-Dichlorobenzene	Ave	1.605	1.645	0.6000	51.3	50.0	2.5	20.0
1,4-Dichlorobenzene	Ave	1.596	1.612	0.5000	50.5	50.0	1.0	20.0
n-Butylbenzene	Ave	0.8528	0.9309	0.0100	54.6	50.0	9.2	20.0
1,2-Dichlorobenzene	Ave	1.383	1.410	0.4000	51.0	50.0	2.0	20.0
n-Nonyl Aldehyde	Lin		0.3537	0.0100	45.7	50.0	-8.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0769	0.0836	0.0500	54.3	50.0	8.6	20.0
1,3,5-Trichlorobenzene	Ave	1.278	1.388	0.0100	54.3	50.0	8.6	20.0
Hexachlorobutadiene	Ave	0.8530	0.9447	0.0100	55.4	50.0	10.7	20.0
1,2,4-Trichlorobenzene	Ave	0.9380	1.061	0.2000	56.5	50.0	13.1	20.0
Naphthalene	Ave	1.051	1.251	0.0100	59.5	50.0	19.0	20.0
1,2,3-Trichlorobenzene	Ave	0.7622	0.8648	0.0100	56.7	50.0	13.5	20.0
Dibromofluoromethane (Surr)	Ave	0.1868	0.1874	0.0100	50.2	50.0	0.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2184	0.2182	0.0100	50.0	50.0	-0.1	20.0
Toluene-d8 (Surr)	Ave	1.452	1.492	0.0100	51.4	50.0	2.8	20.0
4-Bromofluorobenzene (Surr)	Ave	1.014	1.046	0.0100	51.6	50.0	3.2	20.0

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LCCV4868.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 17-Jun-2019 11:09:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: CCVIS
Operator ID: KA Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:44 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 11:57:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	572980	50.0	58.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	97	163553	50.0	38.6	
3 Chloromethane	50	3.500	3.500	0.000	99	612077	50.0	51.2	
4 Vinyl chloride	62	3.667	3.667	0.000	98	578011	50.0	52.7	
122 Butadiene	39	3.695	3.695	0.000	91	563328	50.0	55.4	
5 Bromomethane	94	4.268	4.268	0.000	91	223393	50.0	46.9	
6 Chloroethane	64	4.477	4.477	0.000	99	323113	50.0	53.3	
7 Trichlorofluoromethane	101	4.715	4.715	0.000	98	680074	50.0	51.5	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	97	762513	50.0	50.9	
8 Ethyl ether	74	5.231	5.231	0.000	92	173150	50.0	52.8	
11 Ethanol	45	5.455	5.455	0.000	100	76385	2000.0	2156.5	
9 1,1-Dichloroethene	96	5.525	5.525	0.000	94	356234	50.0	52.2	
10 Carbon disulfide	76	5.567	5.567	0.000	99	1449938	50.0	53.1	
12 1,1,2-Trichloro-1,2,2-trif	151	5.581	5.581	0.000	95	289836	50.0	51.1	
13 Iodomethane	142	5.748	5.748	0.000	99	257309	50.0	49.6	
14 Acrolein	56	6.014	6.014	0.000	100	104273	250.0	358.8	
15 3-Chloro-1-propene	39	6.181	6.181	0.000	92	467169	50.0	52.3	
16 Isopropyl alcohol	45	6.209	6.209	0.000	97	116744	500.0	546.8	
17 Methylene Chloride	84	6.321	6.321	0.000	96	343040	50.0	50.2	
18 Acetone	43	6.391	6.391	0.000	100	52051	50.0	50.9	
19 trans-1,2-Dichloroethene	96	6.516	6.516	0.000	96	404332	50.0	51.9	
20 Methyl acetate	74	6.530	6.530	0.000	98	56304	250.0	260.4	
21 Hexane	86	6.600	6.600	0.000	91	150217	50.0	55.4	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	89	731335	50.0	50.7	
23 2-Methyl-2-propanol	59	6.740	6.740	0.000	98	191637	500.0	554.6	
24 Acetonitrile	41	6.963	6.963	0.000	99	195302	500.0	521.9	
25 Isopropyl ether	45	7.061	7.061	0.000	95	1165213	50.0	53.3	
27 2-Chloro-1,3-butadiene	53	7.215	7.215	0.000	92	693028	50.0	52.6	
28 1,1-Dichloroethane	63	7.243	7.243	0.000	95	772268	50.0	50.5	
29 Acrylonitrile	53	7.312	7.312	0.000	100	649530	500.0	514.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.452	7.452	0.000	98	1000711	50.0	52.4	
31 Vinyl acetate	43	7.480	7.480	0.000	97	525099	50.0	54.6	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	382913	50.0	50.9	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	90	671643	50.0	52.5	
34 Cyclohexane	84	8.025	8.025	0.000	90	757063	50.0	53.6	
35 Chlorobromomethane	128	8.025	8.025	0.000	52	118791	50.0	50.2	
36 Chloroform	83	8.081	8.081	0.000	93	646006	50.0	49.3	
39 Ethyl acetate	45	8.164	8.164	0.000	99	50886	100.0	100.2	
37 Carbon tetrachloride	117	8.234	8.234	0.000	98	519108	50.0	50.4	
38 Tetrahydrofuran	71	8.248	8.248	0.000	88	40233	100.0	107.5	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	281633	50.0	50.2	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	98	635915	50.0	50.6	
43 2-Butanone (MEK)	43	8.374	8.374	0.000	100	76079	50.0	50.4	a
42 1,1-Dichloropropene	75	8.416	8.416	0.000	96	639973	50.0	53.0	
125 Isooctane	57	8.486	8.486	0.000	96	2034848	50.0	51.6	
117 n-Heptane	43	8.555	8.555	0.000	93	899148	50.0	53.9	
44 Benzene	78	8.653	8.653	0.000	97	1695071	50.0	50.3	
45 Propionitrile	54	8.681	8.681	0.000	94	257920	500.0	508.7	
46 Methacrylonitrile	41	8.695	8.695	0.000	93	1244148	500.0	505.0	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	98	817070	50.0	50.7	
50 Isobutyl alcohol	42	8.779	8.779	0.000	91	132627	1250.0	1387.0	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	99	327872	50.0	50.0	
49 1,2-Dichloroethane	62	8.849	8.849	0.000	98	384201	50.0	49.6	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1502970	50.0	50.0	
52 Methylcyclohexane	55	9.184	9.184	0.000	94	744916	50.0	52.6	
53 Trichloroethene	95	9.198	9.198	0.000	61	421122	50.0	50.0	
54 n-Butanol	56	9.421	9.421	0.000	89	138012	1250.0	1265.1	
55 Dibromomethane	93	9.603	9.603	0.000	97	137142	50.0	50.1	
124 Ethyl acrylate	55	9.631	9.631	0.000	99	231565	50.0	46.7	
56 1,2-Dichloropropane	63	9.687	9.687	0.000	95	387821	50.0	51.3	
57 Dichlorobromomethane	83	9.729	9.729	0.000	99	417538	50.0	50.4	
58 Methyl methacrylate	69	9.812	9.812	0.000	92	281865	100.0	96.0	
59 1,4-Dioxane	88	9.896	9.896	0.000	98	36386	1000.0	1031.6	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	91	128293	50.0	45.6	
61 cis-1,3-Dichloropropene	75	10.287	10.287	0.000	94	541712	50.0	53.4	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	94	1413218	50.0	51.4	
63 Toluene	92	10.511	10.511	0.000	98	1026951	50.0	50.4	
64 2-Nitropropane	43	10.734	10.734	0.000	99	101209	100.0	105.1	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	96	176660	50.0	53.5	
65 Tetrachloroethene	164	10.860	10.860	0.000	95	341491	50.0	51.1	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	94	444629	50.0	52.3	
69 Ethyl methacrylate	69	10.944	10.944	0.000	90	285260	50.0	46.0	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	93	182302	50.0	49.1	
70 Chlorodibromomethane	129	11.209	11.209	0.000	91	206917	50.0	50.5	
71 1,3-Dichloropropane	76	11.279	11.279	0.000	92	413191	50.0	49.9	
119 n-Butyl acetate	43	11.432	11.432	0.000	98	300795	50.0	46.6	
72 Ethylene Dibromide	107	11.446	11.446	0.000	98	183882	50.0	50.2	
74 2-Hexanone	43	11.558	11.558	0.000	97	120618	50.0	49.6	
75 1-Chlorohexane	91	11.824	11.824	0.000	97	652064	50.0	52.8	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	93	946907	50.0	50.0	
78 Ethylbenzene	91	11.879	11.879	0.000	97	2007699	50.0	50.4	
77 Chlorobenzene	112	11.893	11.893	0.000	92	963101	50.0	49.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
79 1,1,1,2-Tetrachloroethane	131	11.935	11.935	0.000	94	278080	50.0	49.7	
80 m-Xylene & p-Xylene	106	12.005	12.005	0.000	100	744349	50.0	52.0	
82 o-Xylene	106	12.410	12.410	0.000	99	666098	50.0	53.3	
83 Styrene	104	12.466	12.466	0.000	94	1012621	50.0	54.5	
84 Bromoform	173	12.536	12.536	0.000	97	134856	50.0	54.5	
85 Isopropylbenzene	105	12.689	12.689	0.000	96	1893184	50.0	52.5	
$ 86 4-Bromofluorobenzene (Surr	95	12.983	12.983	0.000	89	466453	50.0	51.6	
88 N-Propylbenzene	91	13.080	13.080	0.000	99	2413836	50.0	52.6	
87 Bromobenzene	156	13.108	13.108	0.000	96	357393	50.0	50.6	
89 1,1,2,2-Tetrachloroethane	83	13.136	13.136	0.000	95	235536	50.0	50.8	
91 1,3,5-Trimethylbenzene	105	13.234	13.234	0.000	94	1531420	50.0	53.3	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	1509113	50.0	50.6	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	86	66452	50.0	50.5	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	95	76893	50.0	51.8	
94 Cyclohexanone	55	13.374	13.374	0.000	93	59581	500.0	533.2	
95 4-Chlorotoluene	91	13.416	13.416	0.000	98	1371234	50.0	52.2	
96 tert-Butylbenzene	119	13.555	13.555	0.000	93	1351609	50.0	53.4	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	98	1516978	50.0	53.2	
98 sec-Butylbenzene	105	13.723	13.723	0.000	96	2162755	50.0	52.7	
99 4-Isopropyltoluene	119	13.849	13.849	0.000	97	1737259	50.0	53.7	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	97	733940	50.0	51.3	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	97	1411025	50.0	51.0	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	90	446072	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	91	718924	50.0	50.5	
103 n-Butylbenzene	134	14.268	14.268	0.000	97	415263	50.0	54.6	
121 Benzyl chloride	126	14.296	14.296	0.000	97	89190	50.0	56.4	a
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	95	628889	50.0	51.0	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	89	157759	50.0	45.7	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	79	37284	50.0	54.3	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	95	619300	50.0	54.3	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	94	421395	50.0	55.4	
109 1,2,4-Trichlorobenzene	180	15.944	15.944	0.000	93	473127	50.0	56.5	
110 Naphthalene	128	16.307	16.307	0.000	98	558244	50.0	59.5	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	94	385778	50.0	56.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

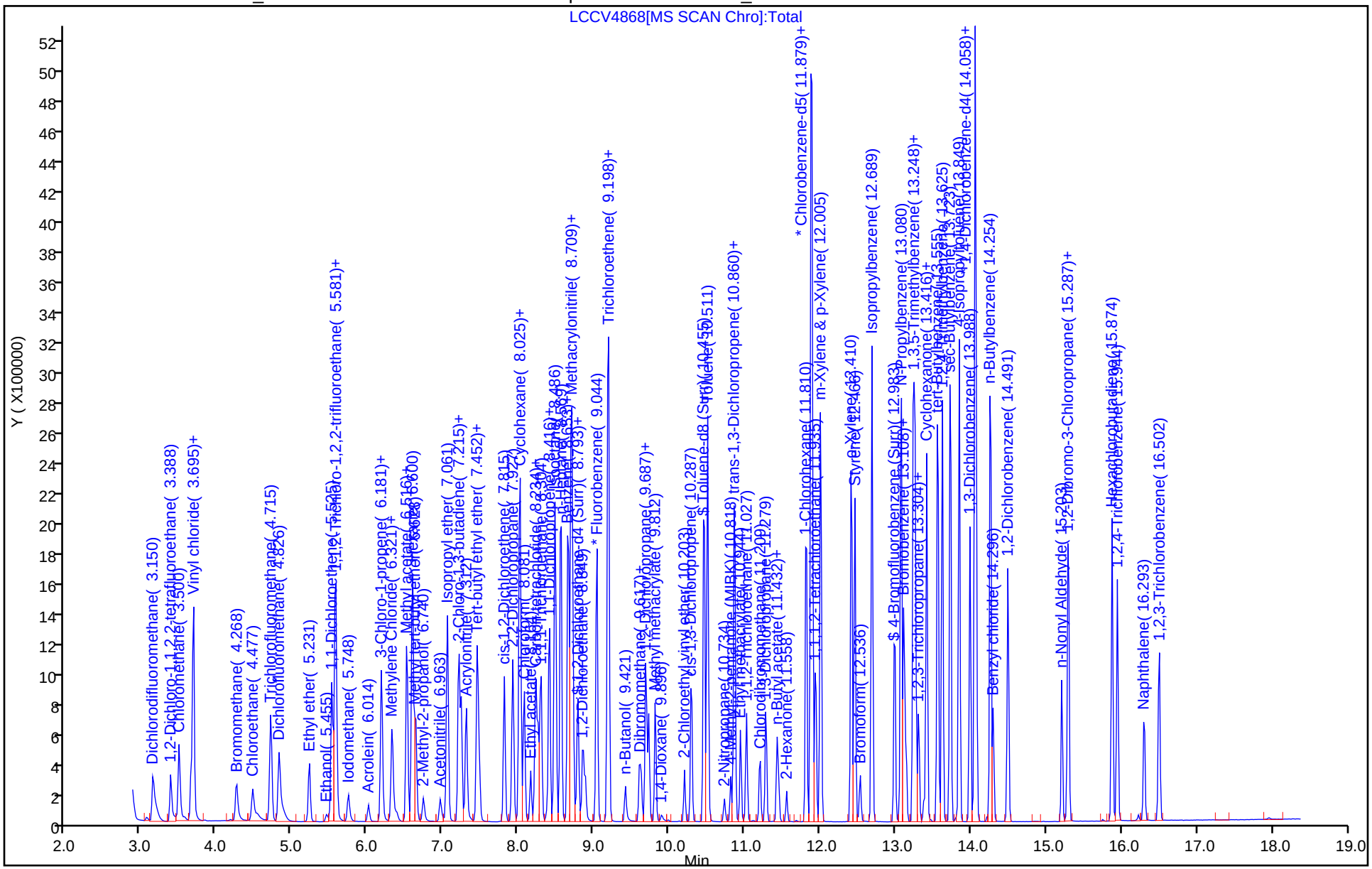
8260 NewWkMix_00331	Amount Added: 10.00	Units: uL	
I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:45 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LCCV4868.D

Injection Date:	17-Jun-2019 11:09:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

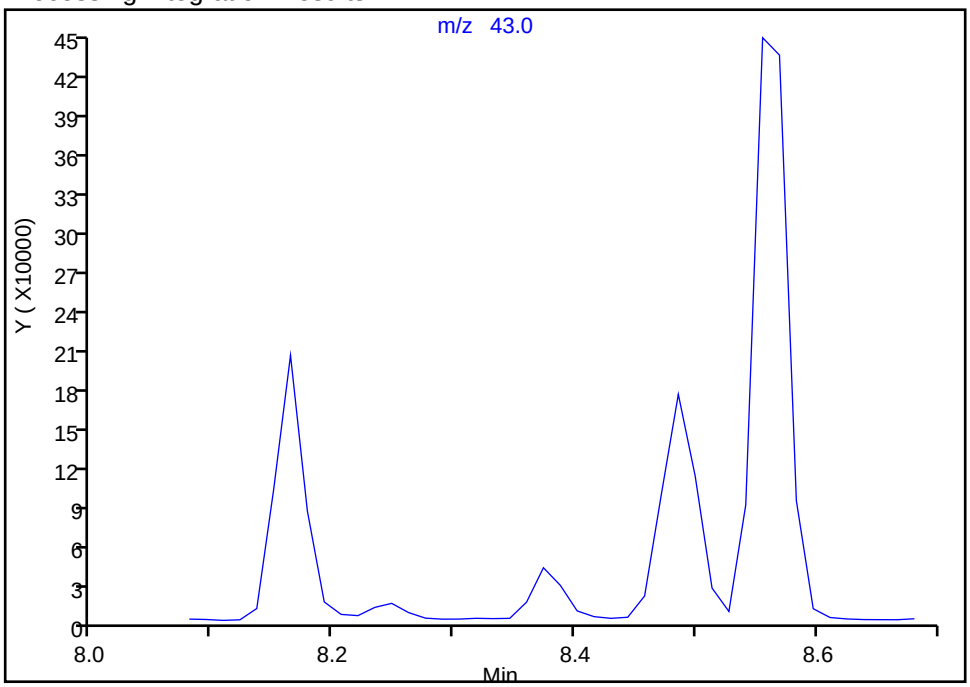
Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LCCV4868.D
Injection Date: 17-Jun-2019 11:09:30 Instrument ID: VMSL
Lims ID: CCVIS
Client ID:
Operator ID: KA ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

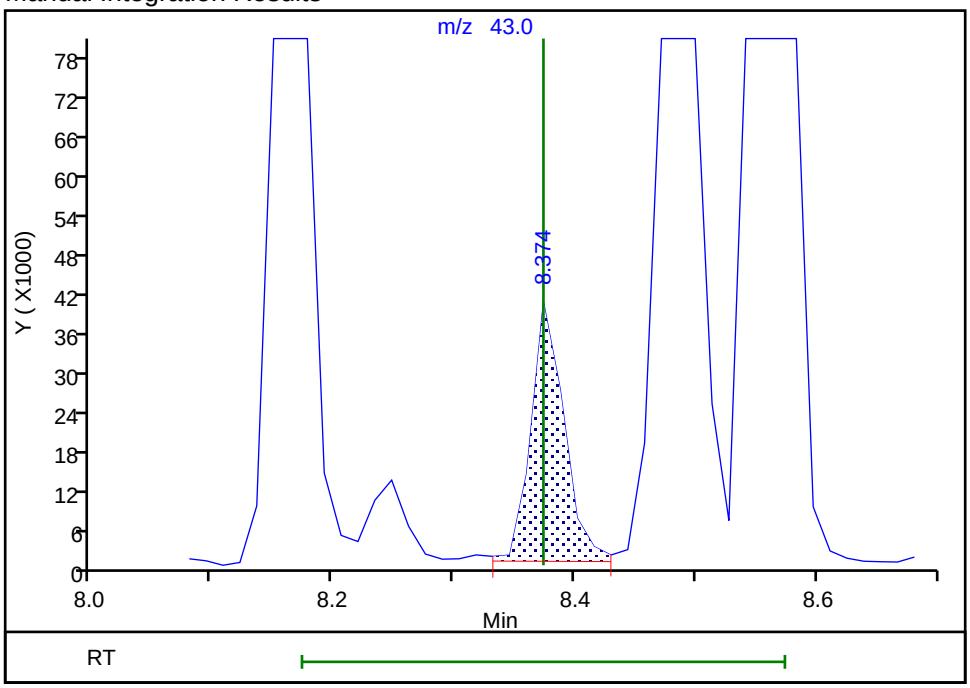
Not Detected
Expected RT: 8.37

Processing Integration Results



Manual Integration Results

RT: 8.37
Area: 76079
Amount: 50.370465
Amount Units: ug/l



Reviewer: aguk, 20-Jun-2019 11:41:33
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Lab Sample ID: CCVC 160-431879/20 Calibration Date: 06/17/2019 18:17

Instrument ID: VMSL Calib Start Date: 05/23/2019 11:32

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 05/23/2019 14:26

Lab File ID: LSMP4885.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	QuaF		0.3813	0.1000	58.5	50.0	17.0	50.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1409	0.1082	0.0100	38.4	50.0	-23.2	50.0
Chloromethane	Ave	0.3979	0.4004	0.1000	50.3	50.0	0.6	50.0
Vinyl chloride	Ave	0.3646	0.3781	0.1000	51.8	50.0	3.7	50.0
Butadiene	Ave	0.3380	0.3735	0.0100	55.2	50.0	10.5	50.0
Bromomethane	Ave	0.1583	0.1010	0.1000	31.9	50.0	-36.2	50.0
Chloroethane	Ave	0.2015	0.2155	0.1000	53.4	50.0	6.9	50.0
Trichlorofluoromethane	Ave	0.4390	0.4456	0.1000	50.8	50.0	1.5	50.0
Dichlorofluoromethane	Ave	0.4984	0.5243	0.0100	52.6	50.0	5.2	50.0
Ethyl ether	Ave	0.1091	0.1141	0.0100	52.3	50.0	4.6	50.0
1,1-Dichloroethene	Ave	0.2270	0.2404	0.1000	52.9	50.0	5.9	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1886	0.1969	0.1000	52.2	50.0	4.4	50.0
Carbon disulfide	Ave	0.9085	0.9724	0.1000	53.5	50.0	7.0	50.0
Iodomethane	Lin1		0.1442	0.0100	42.5	50.0	-15.0	50.0
Acrolein	Ave	0.0097	0.0113	0.0010	292	250	16.7	50.0
3-Chloro-1-propene	Ave	0.2974	0.3105	0.0100	52.2	50.0	4.4	50.0
Methylene Chloride	Ave	0.2274	0.2300	0.1000	50.6	50.0	1.1	50.0
Acetone	Ave	0.0340	0.0362*	0.1000	53.2	50.0	6.5	50.0
Methyl acetate	Ave	0.0072	0.0073*	0.1000	252	250	0.9	50.0
trans-1,2-Dichloroethene	Ave	0.2590	0.2679	0.1000	51.7	50.0	3.4	50.0
Hexane	Ave	0.0902	0.1004	0.0100	55.7	50.0	11.3	50.0
Methyl tert-butyl ether	Ave	0.4796	0.4843	0.1000	50.5	50.0	1.0	50.0
Acetonitrile	Ave	0.0124	0.0121	0.0010	487	500	-2.7	50.0
2-Chloro-1,3-butadiene	Ave	0.4387	0.4625	0.0100	52.7	50.0	5.4	50.0
1,1-Dichloroethane	Ave	0.5089	0.5242	0.2000	51.5	50.0	3.0	50.0
Acrylonitrile	Ave	0.0420	0.0421	0.0100	501	500	0.2	50.0
Vinyl acetate	Ave	0.3198	0.2601	0.0100	40.7	50.0	-18.6	50.0
cis-1,2-Dichloroethene	Ave	0.2505	0.2554	0.1000	51.0	50.0	2.0	50.0
2,2-Dichloropropane	Ave	0.4259	0.4124	0.0100	48.4	50.0	-3.2	50.0
Bromochloromethane	Ave	0.0788	0.0793	0.0100	50.3	50.0	0.6	50.0
Cyclohexane	Ave	0.4699	0.5072	0.1000	54.0	50.0	7.9	50.0
Chloroform	Ave	0.4355	0.4371	0.2000	50.2	50.0	0.4	50.0
Ethyl acetate	Ave	0.0169	0.0163	0.0100	96.7	100	-3.3	50.0
Carbon tetrachloride	Ave	0.3426	0.3436	0.1000	50.1	50.0	0.3	50.0
Tetrahydrofuran	Ave	0.0124	0.0125	0.0010	100	100	0.4	50.0
1,1,1-Trichloroethane	Ave	0.4184	0.4242	0.1000	50.7	50.0	1.4	50.0
2-Butanone (MEK)	Ave	0.0502	0.0487*	0.1000	48.5	50.0	-3.0	50.0
1,1-Dichloropropene	Ave	0.4014	0.4234	0.0100	52.7	50.0	5.5	50.0
Benzene	Ave	1.121	1.140	0.5000	50.9	50.0	1.7	50.0
Propionitrile	Ave	0.0169	0.0168	0.0010	498	500	-0.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Lab Sample ID: CCVC 160-431879/20 Calibration Date: 06/17/2019 18:17

Instrument ID: VMSL Calib Start Date: 05/23/2019 11:32

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 05/23/2019 14:26

Lab File ID: LSMP4885.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methacrylonitrile	Ave	0.0820	0.0830	0.0100	506	500	1.3	50.0
Isobutyl alcohol	Ave	0.0032	0.0031	0.0010	1230	1250	-1.9	50.0
1,2-Dichloroethane	Ave	0.2575	0.2550	0.1000	49.5	50.0	-1.0	50.0
Methylcyclohexane	Ave	0.4708	0.5024	0.1000	53.3	50.0	6.7	50.0
Trichloroethene	Ave	0.2804	0.2933	0.2000	52.3	50.0	4.6	50.0
n-Butanol	Lin1		0.0031*	0.0100	1080	1250	-13.4	50.0
Dibromomethane	Ave	0.0911	0.0903	0.0100	49.6	50.0	-0.9	50.0
1,2-Dichloropropane	Ave	0.2515	0.2589	0.1000	51.5	50.0	2.9	50.0
Bromodichloromethane	Ave	0.2757	0.2782	0.2000	50.4	50.0	0.9	50.0
Methyl methacrylate	Lin1		0.0911	0.0100	93.4	100	-6.6	50.0
1,4-Dioxane	Lin1		0.0011	0.0010	927	1000	-7.3	50.0
2-Chloroethyl vinyl ether	Lin1		0.0793	0.0100	42.6	50.0	-14.8	50.0
cis-1,3-Dichloropropene	Ave	0.3373	0.3481	0.2000	51.6	50.0	3.2	50.0
Toluene	Ave	1.076	1.112	0.4000	51.7	50.0	3.3	50.0
2-Nitropropane	Qua		0.0487	0.0100	96.7	100	-3.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1743	0.1804	0.1000	51.8	50.0	3.5	50.0
Tetrachloroethene	Ave	0.3528	0.3646	0.2000	51.7	50.0	3.3	50.0
trans-1,3-Dichloropropene	Ave	0.4489	0.4613	0.1000	51.4	50.0	2.8	50.0
Ethyl methacrylate	Lin1		0.2931	0.0100	44.8	50.0	-10.4	50.0
1,1,2-Trichloroethane	Ave	0.1960	0.1929	0.1000	49.2	50.0	-1.6	50.0
Dibromochloromethane	Ave	0.2164	0.2168	0.1000	50.1	50.0	0.2	50.0
1,3-Dichloropropane	Ave	0.4372	0.4365	0.0100	49.9	50.0	-0.2	50.0
1,2-Dibromoethane	Ave	0.1936	0.1943	0.1000	50.2	50.0	0.4	50.0
2-Hexanone	Lin1		0.1225	0.1000	47.8	50.0	-4.4	50.0
Ethylbenzene	Ave	2.104	2.159	0.1000	51.3	50.0	2.6	50.0
Chlorobenzene	Ave	1.025	1.021	0.5000	49.8	50.0	-0.4	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2954	0.2964	0.0100	50.2	50.0	0.3	50.0
m,p-Xylenes	Ave	0.7565	0.7886	0.1000	52.1	50.0	4.2	50.0
o-Xylene	Ave	0.6597	0.7071	0.3000	53.6	50.0	7.2	50.0
Styrene	Ave	0.9813	1.076	0.3000	54.8	50.0	9.7	50.0
Bromoform	Ave	0.2775	0.2932	0.1000	52.8	50.0	5.6	50.0
Isopropylbenzene	Ave	4.038	4.308	0.1000	53.3	50.0	6.7	50.0
N-Propylbenzene	Ave	5.147	5.503	0.0100	53.5	50.0	6.9	50.0
Bromobenzene	Ave	0.7923	0.8086	0.0100	51.0	50.0	2.1	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5199	0.5044	0.3000	48.5	50.0	-3.0	50.0
1,3,5-Trimethylbenzene	Ave	3.218	3.478	0.0100	54.0	50.0	8.1	50.0
2-Chlorotoluene	Ave	3.341	3.440	0.0100	51.5	50.0	3.0	50.0
1,2,3-Trichloropropane	Ave	0.1476	0.1472	0.0100	49.9	50.0	-0.3	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1664	0.1620	0.0100	48.7	50.0	-2.6	50.0
Cyclohexanone	Qua		0.0128	0.0010	512	500	2.4	50.0
4-Chlorotoluene	Ave	2.943	3.098	0.0100	52.6	50.0	5.3	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Lab Sample ID: CCVC 160-431879/20 Calibration Date: 06/17/2019 18:17

Instrument ID: VMSL Calib Start Date: 05/23/2019 11:32

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 05/23/2019 14:26

Lab File ID: LSMP4885.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
tert-Butylbenzene	Ave	2.840	3.035	0.0100	53.4	50.0	6.9	50.0
1,2,4-Trimethylbenzene	Ave	3.194	3.420	0.0100	53.5	50.0	7.1	50.0
sec-Butylbenzene	Ave	4.599	4.912	0.0100	53.4	50.0	6.8	50.0
p-Isopropyltoluene	Ave	3.628	3.900	0.0100	53.7	50.0	7.5	50.0
1,3-Dichlorobenzene	Ave	1.605	1.640	0.6000	51.1	50.0	2.2	50.0
1,4-Dichlorobenzene	Ave	1.596	1.627	0.5000	51.0	50.0	2.0	50.0
n-Butylbenzene	Ave	0.8528	0.9188	0.0100	53.9	50.0	7.7	50.0
1,2-Dichlorobenzene	Ave	1.383	1.393	0.4000	50.4	50.0	0.7	50.0
n-Nonyl Aldehyde	Lin		0.3068	0.0100	40.7	50.0	-18.5	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.0769	0.0800	0.0500	52.0	50.0	4.0	50.0
1,3,5-Trichlorobenzene	Ave	1.278	1.329	0.0100	52.0	50.0	4.0	50.0
Hexachlorobutadiene	Ave	0.8530	0.8930	0.0100	52.3	50.0	4.7	50.0
1,2,4-Trichlorobenzene	Ave	0.9380	0.9837	0.2000	52.4	50.0	4.9	50.0
Naphthalene	Ave	1.051	1.117	0.0100	53.1	50.0	6.2	50.0
1,2,3-Trichlorobenzene	Ave	0.7622	0.7960	0.0100	52.2	50.0	4.4	50.0
Dibromofluoromethane (Surr)	Ave	0.1868	0.1841	0.0100	49.3	50.0	-1.4	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2184	0.2143	0.0100	49.1	50.0	-1.9	50.0
Toluene-d8 (Surr)	Ave	1.452	1.482	0.0100	51.0	50.0	2.1	50.0
4-Bromofluorobenzene (Surr)	Ave	1.014	1.041	0.0100	51.3	50.0	2.7	50.0

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4885.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 17-Jun-2019 18:17:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-020
Misc. Info.: CCVC
Operator ID: KA Instrument ID: VMSL
Sublist: chrom-5mL-8260_VMSL*sub1

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 12:23:03 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 20-Jun-2019 12:23:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	578464	50.0	58.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	96	164158	50.0	38.4	
3 Chloromethane	50	3.499	3.500	-0.001	99	607383	50.0	50.3	
4 Vinyl chloride	62	3.667	3.667	0.000	98	573495	50.0	51.8	
122 Butadiene	39	3.695	3.695	0.000	90	566574	50.0	55.2	
5 Bromomethane	94	4.268	4.268	0.000	91	153238	50.0	31.9	
6 Chloroethane	64	4.477	4.477	0.000	99	326828	50.0	53.4	
7 Trichlorofluoromethane	101	4.715	4.715	0.000	98	675984	50.0	50.8	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	97	795336	50.0	52.6	
8 Ethyl ether	74	5.231	5.231	0.000	93	173073	50.0	52.3	
11 Ethanol	45	5.455	5.455	0.000	100	68053	2000.0	1903.5	
9 1,1-Dichloroethene	96	5.525	5.525	0.000	95	364630	50.0	52.9	
10 Carbon disulfide	76	5.580	5.567	0.013	99	1475084	50.0	53.5	
12 1,1,2-Trichloro-1,2,2-trif	151	5.580	5.581	-0.001	51	298728	50.0	52.2	
13 Iodomethane	142	5.748	5.748	0.000	99	218716	50.0	42.5	
S 26 1,2-Dichloroethene, Total	96				0			102.7	
14 Acrolein	56	6.013	6.014	-0.001	100	85554	250.0	291.7	
15 3-Chloro-1-propene	39	6.181	6.181	0.000	92	471057	50.0	52.2	
16 Isopropyl alcohol	45	6.209	6.209	0.000	97	100531	500.0	466.5	
17 Methylene Chloride	84	6.335	6.321	0.014	97	348916	50.0	50.6	
18 Acetone	43	6.390	6.391	-0.001	100	54923	50.0	53.2	
19 trans-1,2-Dichloroethene	96	6.530	6.516	0.014	96	406329	50.0	51.7	
20 Methyl acetate	74	6.530	6.530	0.000	98	55057	250.0	252.3	
21 Hexane	86	6.600	6.600	0.000	95	152364	50.0	55.7	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	85	734593	50.0	50.5	
23 2-Methyl-2-propanol	59	6.740	6.740	0.000	98	167841	500.0	481.3	
24 Acetonitrile	41	6.963	6.963	0.000	99	183824	500.0	486.7	
25 Isopropyl ether	45	7.061	7.061	0.000	95	1169367	50.0	53.0	
27 2-Chloro-1,3-butadiene	53	7.214	7.215	-0.001	92	701627	50.0	52.7	
28 1,1-Dichloroethane	63	7.242	7.243	-0.001	97	795115	50.0	51.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.312	7.312	0.000	99	638834	500.0	501.2	
30 Tert-butyl ethyl ether	59	7.466	7.452	0.014	98	1002298	50.0	52.0	
31 Vinyl acetate	43	7.494	7.480	0.014	97	394609	50.0	40.7	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	387419	50.0	51.0	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	90	625594	50.0	48.4	
34 Cyclohexane	84	8.025	8.025	0.000	90	769396	50.0	54.0	
35 Chlorobromomethane	128	8.025	8.025	0.000	52	120278	50.0	50.3	
36 Chloroform	83	8.080	8.081	-0.001	93	663105	50.0	50.2	
39 Ethyl acetate	45	8.164	8.164	0.000	99	49550	100.0	96.7	
37 Carbon tetrachloride	117	8.234	8.234	0.000	97	521252	50.0	50.1	
38 Tetrahydrofuran	71	8.248	8.248	0.000	88	37900	100.0	100.4	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	279283	50.0	49.3	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	98	643533	50.0	50.7	
43 2-Butanone (MEK)	43	8.374	8.374	0.000	98	73939	50.0	48.5	a
42 1,1-Dichloropropene	75	8.416	8.416	0.000	96	642297	50.0	52.7	
125 Isooctane	57	8.485	8.486	-0.001	96	2106295	50.0	52.9	
117 n-Heptane	43	8.569	8.555	0.014	93	911012	50.0	54.1	
44 Benzene	78	8.667	8.653	0.014	96	1729289	50.0	50.9	
45 Propionitrile	54	8.695	8.681	0.014	89	254792	500.0	497.9	
46 Methacrylonitrile	41	8.709	8.695	0.014	93	1259353	500.0	506.4	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	98	822817	50.0	50.6	
50 Isobutyl alcohol	42	8.793	8.779	0.014	63	118384	1250.0	1226.6	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	325093	50.0	49.1	
49 1,2-Dichloroethane	62	8.862	8.849	0.013	97	386777	50.0	49.5	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1516963	50.0	50.0	
52 Methylcyclohexane	55	9.198	9.184	0.014	91	762057	50.0	53.3	
53 Trichloroethene	95	9.198	9.198	0.000	60	444919	50.0	52.3	
54 n-Butanol	56	9.421	9.421	0.000	91	118144	1250.0	1082.5	
55 Dibromomethane	93	9.617	9.603	0.014	96	137020	50.0	49.6	
124 Ethyl acrylate	55	9.631	9.631	0.000	99	227821	50.0	45.6	
56 1,2-Dichloropropane	63	9.700	9.687	0.013	96	392776	50.0	51.5	
57 Dichlorobromomethane	83	9.728	9.729	-0.001	98	421977	50.0	50.4	
58 Methyl methacrylate	69	9.826	9.812	0.014	92	276253	100.0	93.4	
59 1,4-Dioxane	88	9.910	9.896	0.014	98	32810	1000.0	926.6	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	92	120225	50.0	42.6	
61 cis-1,3-Dichloropropene	75	10.301	10.287	0.014	95	527993	50.0	51.6	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	1397822	50.0	51.0	
63 Toluene	92	10.511	10.511	-0.001	98	1048555	50.0	51.7	
64 2-Nitropropane	43	10.734	10.734	0.000	99	91790	100.0	96.7	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	96	170083	50.0	51.8	
65 Tetrachloroethene	164	10.874	10.860	0.014	95	343789	50.0	51.7	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	97	434950	50.0	51.4	
69 Ethyl methacrylate	69	10.957	10.944	0.013	90	276410	50.0	44.8	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	93	181916	50.0	49.2	
70 Chlorodibromomethane	129	11.209	11.209	0.000	91	204404	50.0	50.1	
71 1,3-Dichloropropane	76	11.293	11.279	0.014	92	411605	50.0	49.9	
119 n-Butyl acetate	43	11.432	11.432	0.000	98	291084	50.0	45.4	
72 Ethylene Dibromide	107	11.460	11.446	0.014	97	183249	50.0	50.2	
74 2-Hexanone	43	11.558	11.558	0.000	97	115520	50.0	47.8	
S 73 1,3-Dichloropropene, Total	75				0			103.0	
75 1-Chlorohexane	91	11.823	11.824	-0.001	98	649481	50.0	52.8	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	94	942945	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.893	11.879	0.014	99	2035692	50.0	51.3	
77 Chlorobenzene	112	11.907	11.893	0.014	97	962794	50.0	49.8	
79 1,1,1,2-Tetrachloroethane	131	11.949	11.935	0.014	94	279519	50.0	50.2	
80 m-Xylene & p-Xylene	106	12.019	12.005	0.014	100	743575	50.0	52.1	
82 o-Xylene	106	12.424	12.410	0.014	97	666786	50.0	53.6	
83 Styrene	104	12.466	12.466	0.000	95	1014948	50.0	54.8	
84 Bromoform	173	12.536	12.536	0.000	96	128943	50.0	52.8	
85 Isopropylbenzene	105	12.689	12.689	0.000	97	1894815	50.0	53.3	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.013	92	457664	50.0	51.3	
88 N-Propylbenzene	91	13.080	13.080	0.000	99	2420604	50.0	53.5	
87 Bromobenzene	156	13.122	13.108	0.014	94	355676	50.0	51.0	
89 1,1,2,2-Tetrachloroethane	83	13.150	13.136	0.014	95	221873	50.0	48.5	
91 1,3,5-Trimethylbenzene	105	13.248	13.234	0.014	94	1529619	50.0	54.0	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	1512988	50.0	51.5	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	86	64731	50.0	49.9	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	92	71274	50.0	48.7	
94 Cyclohexanone	55	13.388	13.374	0.014	94	56166	500.0	512.2	
95 4-Chlorotoluene	91	13.415	13.416	-0.001	98	1362479	50.0	52.6	
96 tert-Butylbenzene	119	13.569	13.555	0.014	93	1335103	50.0	53.4	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	98	1504187	50.0	53.5	
98 sec-Butylbenzene	105	13.737	13.723	0.014	95	2160625	50.0	53.4	
99 4-Isopropyltoluene	119	13.848	13.849	-0.001	97	1715178	50.0	53.7	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	96	721234	50.0	51.1	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	97	1398170	50.0	51.2	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	78	439844	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	90	715760	50.0	51.0	
103 n-Butylbenzene	134	14.267	14.268	-0.001	98	404120	50.0	53.9	
121 Benzyl chloride	126	14.295	14.296	-0.001	94	71392	50.0	45.8	
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	95	612499	50.0	50.4	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	89	134939	50.0	40.7	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	68	35189	50.0	52.0	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	96	584403	50.0	52.0	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	94	392781	50.0	52.3	
109 1,2,4-Trichlorobenzene	180	15.943	15.944	-0.001	94	432667	50.0	52.4	
110 Naphthalene	128	16.307	16.307	-0.001	98	491143	50.0	53.1	
S 112 Xylenes, Total	106				0			105.7	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	94	350130	50.0	52.2	
S 113 Trihalomethanes, Total	1				0			203.5	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

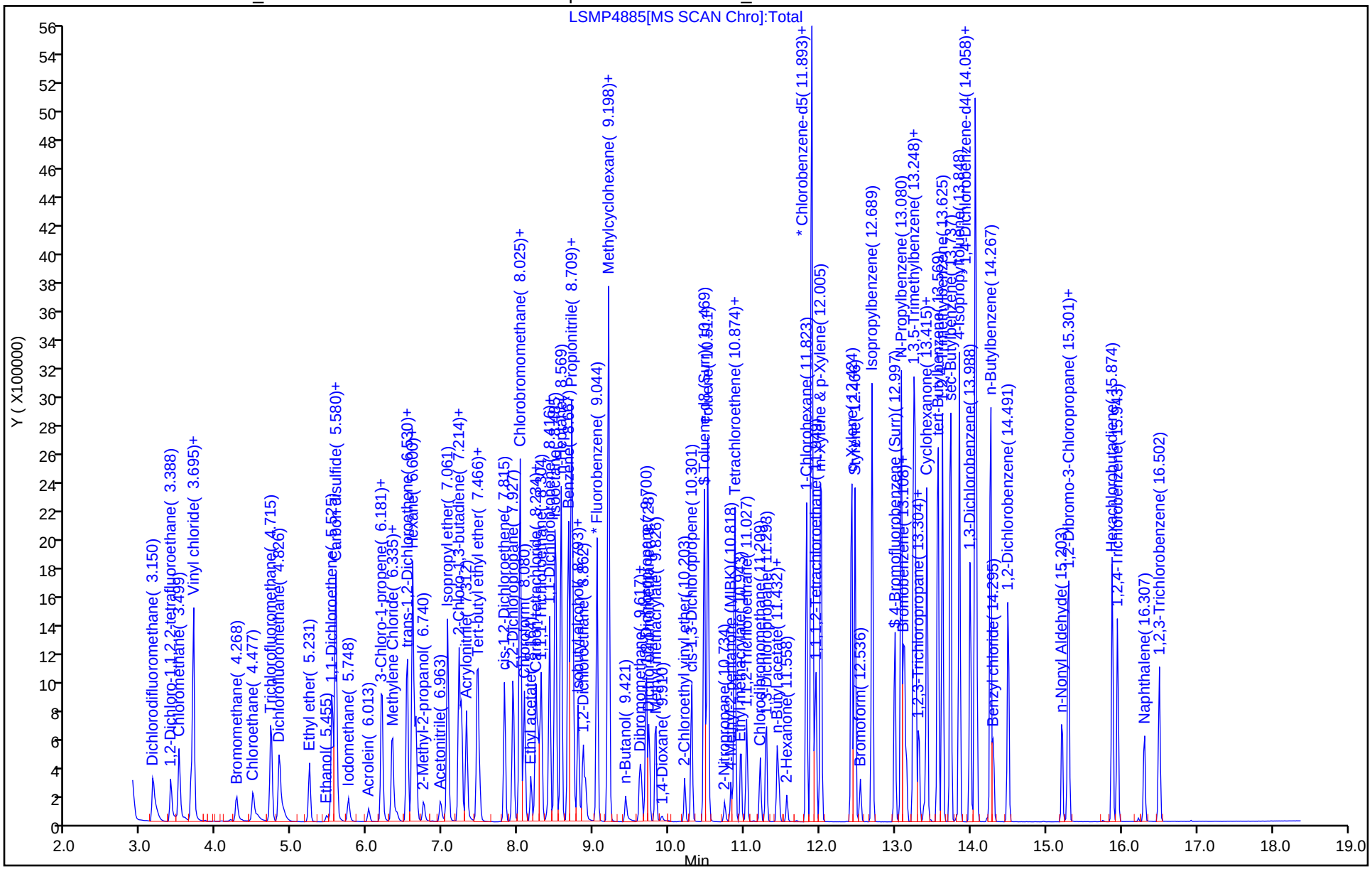
8260 NewWkMix_00331	Amount Added: 10.00	Units: uL	
I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 12:23:03 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4885.D

Injection Date:	17-Jun-2019 18:17:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	CCVC			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

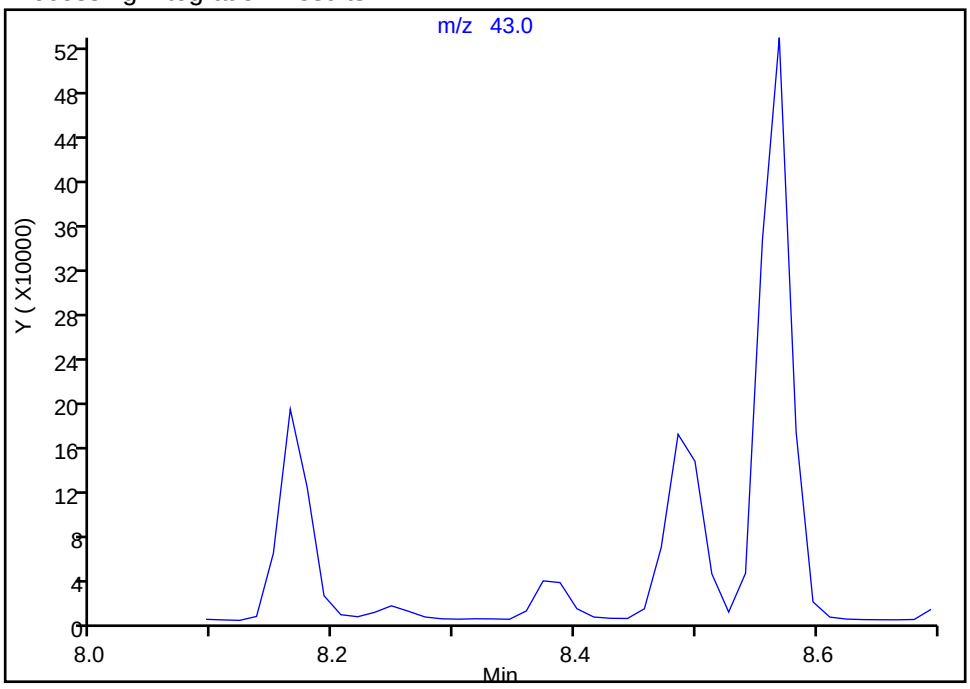
Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4885.D
Injection Date: 17-Jun-2019 18:17:30 Instrument ID: VMSL
Lims ID: CCVC
Client ID:
Operator ID: KA ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

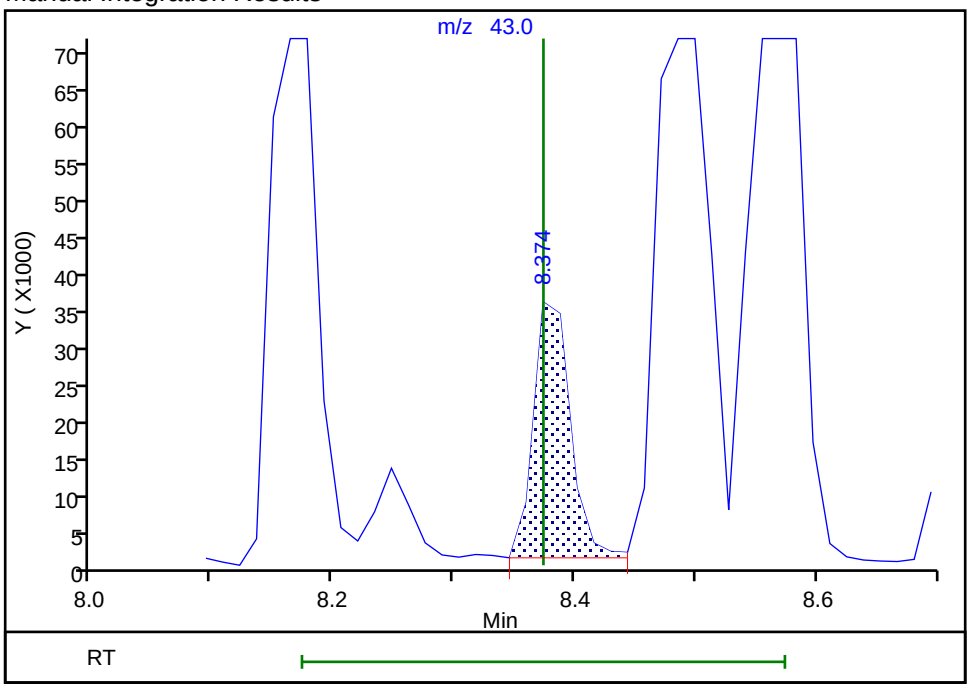
Not Detected
Expected RT: 8.37

Processing Integration Results



Manual Integration Results

RT: 8.37
Area: 73939
Amount: 48.502046
Amount Units: ug/l



Reviewer: aguk, 18-Jun-2019 16:14:31
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LBFB4768.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 23-May-2019 10:42:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: BFB
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 28-May-2019 11:55:30 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0324

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 114 BFB	95	4.143	4.143	0.000	0	917184	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

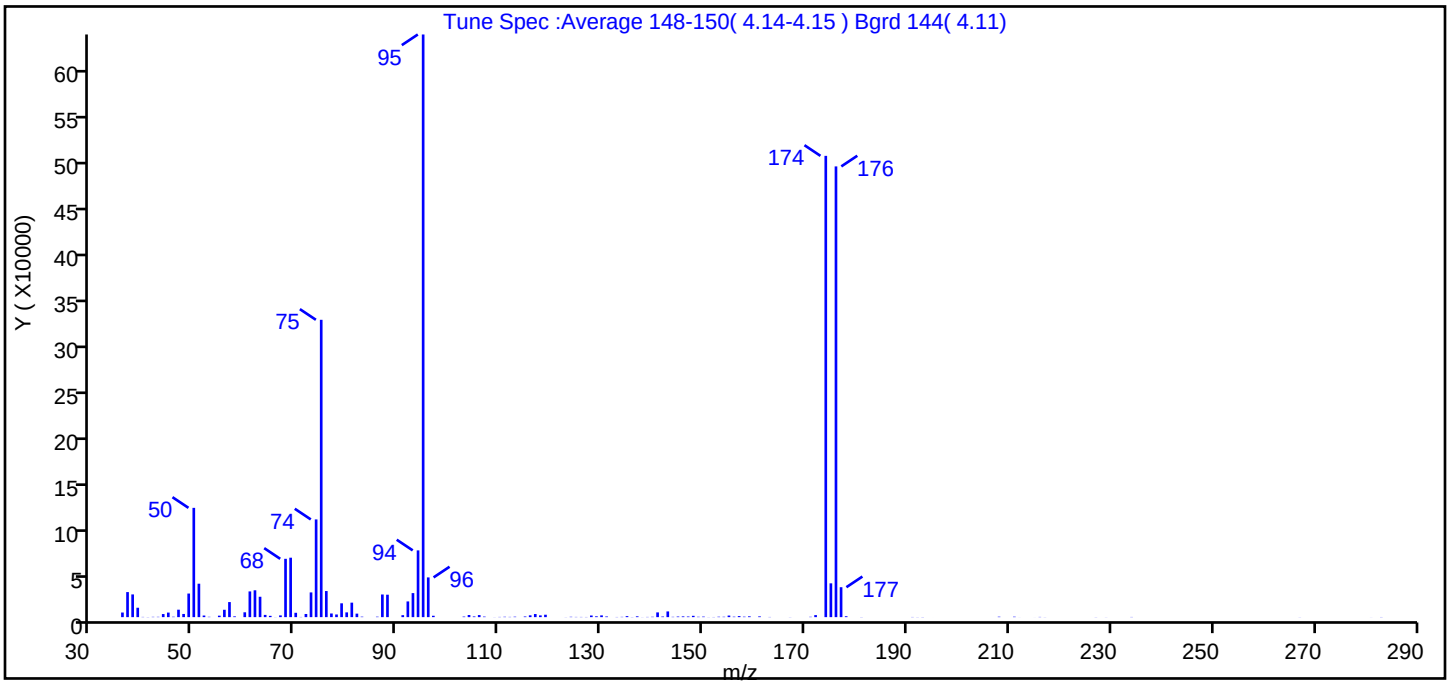
BFB_00095 Amount Added: 2.00 Units: uL

MS Tune Report

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LBFB4768.D
Injection Date: 23-May-2019 10:42:30 Instrument ID: VMSL
Lims ID: BFB
Client ID:
Operator ID: KA ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Tune Method: BFB Method 8260

$ 114 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.8
75	30 to 60% of m/z 95	51.0
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	79.2
175	5 to 9% of m/z 174	5.8 (7.3)
176	Greater than 95% but less than 101% of m/z 174	77.4 (97.7)
177	5 to 9% of m/z 176	5.1 (6.6)

Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LBFB4768.D\5mL-8260_VMSL.rslt\spectra.d
Injection Date: 23-May-2019 10:42:30
Spectrum: Tune Spec :Average 148-150(4.14-4.15) Bgrd 144(4.11)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5049	72.00	3447	117.00	3391	155.00	1725
37.00	27344	73.00	26984	118.00	1907	156.00	506
38.00	24808	74.00	106664	119.00	2638	157.00	1158
39.00	10259	75.00	324544	123.00	90	158.00	516
40.00	245	76.00	28488	124.00	382	159.00	886
41.00	147	77.00	4002	125.00	243	161.00	820
42.00	331	78.00	2915	126.00	222	163.00	202
43.00	345	79.00	15101	127.00	183	167.00	108
44.00	3384	80.00	5192	128.00	1783	171.00	373
45.00	4973	81.00	15819	129.00	899	172.00	2219
46.00	449	82.00	3825	130.00	1923	174.00	503488
47.00	8128	83.00	519	131.00	719	175.00	36904
48.00	3472	86.00	495	133.00	191	176.00	491968
49.00	25760	87.00	24728	134.00	314	177.00	32672
50.00	119288	88.00	24496	135.00	1116	178.00	977
51.00	36504	91.00	2145	136.00	146	181.00	137
52.00	1760	92.00	17152	137.00	892	191.00	196
53.00	374	93.00	26240	138.00	85	192.00	112
55.00	1609	94.00	72872	139.00	235	193.00	161
56.00	8057	95.00	635968	140.00	404	195.00	6
57.00	16448	96.00	43368	141.00	5175	208.00	477
58.00	844	97.00	1505	142.00	662	211.00	474
60.00	5299	103.00	612	143.00	6238	212.00	39
61.00	28088	104.00	2333	144.00	340	215.00	32
62.00	29320	105.00	763	145.00	658	216.00	239
63.00	22256	106.00	2271	146.00	811	217.00	95
64.00	2451	107.00	593	147.00	686	227.00	115
65.00	1426	109.00	89	148.00	1440	229.00	74
66.00	93	110.00	242	149.00	399	234.00	209
67.00	1887	111.00	408	150.00	576	267.00	90
68.00	63664	112.00	272	151.00	99	281.00	48
69.00	64888	113.00	493	152.00	173	283.00	171
70.00	4750	115.00	713	153.00	459		

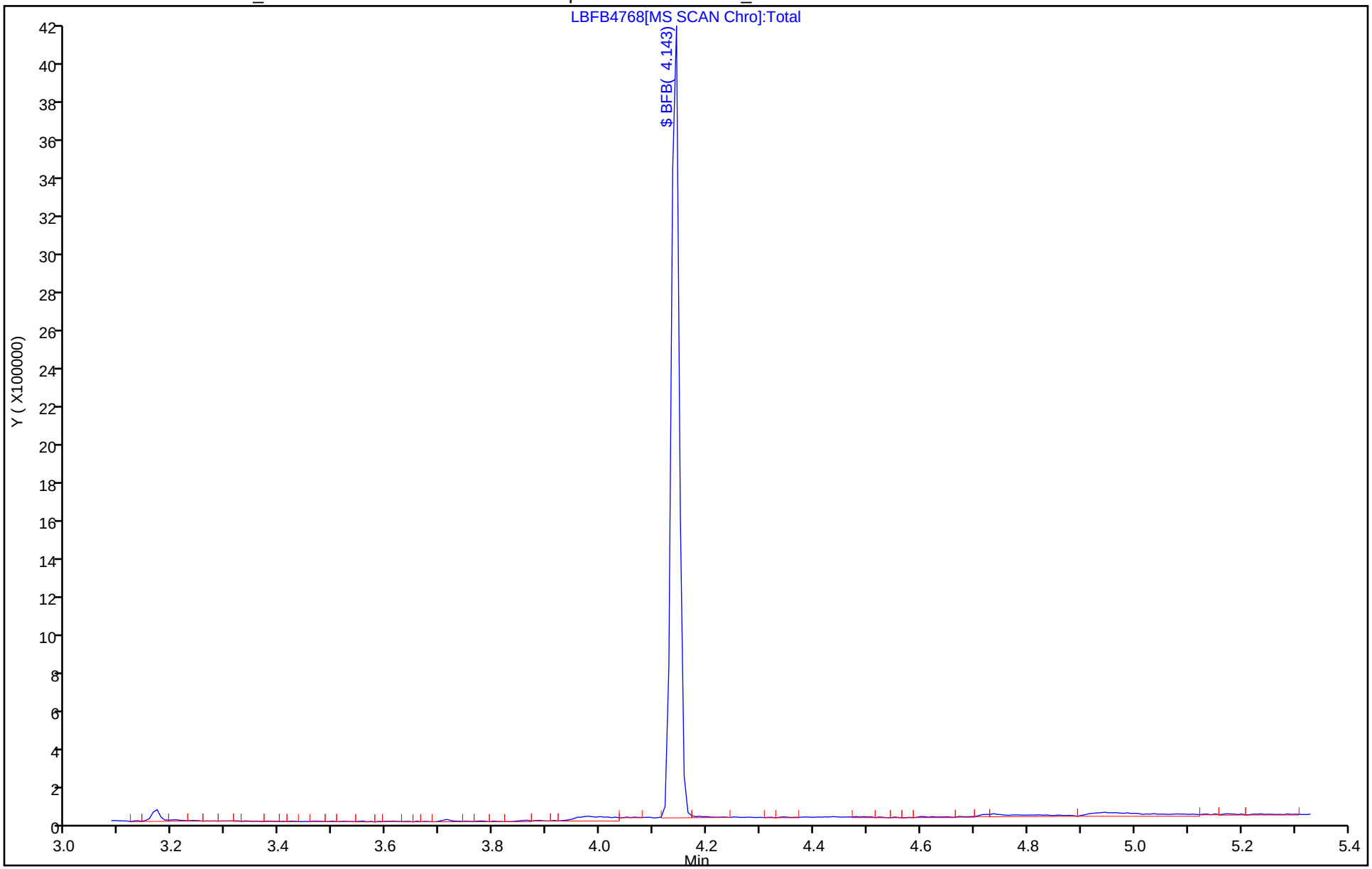
Report Date: 28-May-2019 11:55:31 Chrom Revision: 2.3 03-May-2019 15:52:00
Data File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LBFB4768.D\5mL-8260_VMSL.rslt\spectra.d
Injection Date: 23-May-2019 10:42:30
Spectrum: Tune Spec :Average 148-150(4.14-4.15) Bgrd 144(4.11)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	207	116.00	1972	154.00	410		

Report Date: 28-May-2019 11:55:31 Chrom Revision: 2.3 03-May-2019 15:52:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LBFB4768.D				
Injection Date:	23-May-2019 10:42:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LBFB4867.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 17-Jun-2019 10:40:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: BFB
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:56:10 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 11:35:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 114 BFB	95	4.143	4.143	0.000	0	1222091	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

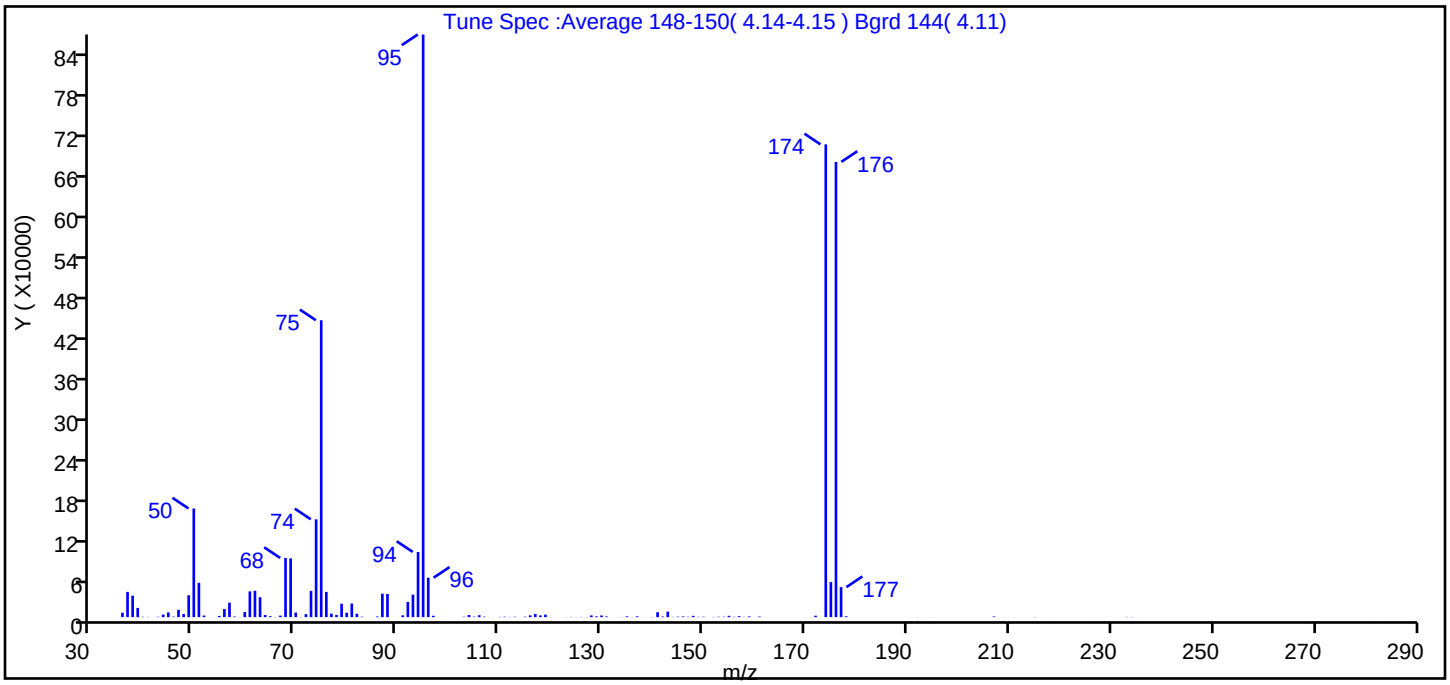
BFB_00095 Amount Added: 2.00 Units: uL

MS Tune Report

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LBFB4867.D
Injection Date: 17-Jun-2019 10:40:30 Instrument ID: VMSL
Lims ID: BFB
Client ID:
Operator ID: KA ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Tune Method: BFB Method 8260

$ 114 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.7
75	30 to 60% of m/z 95	51.0
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	81.1
175	5 to 9% of m/z 174	6.0 (7.4)
176	Greater than 95% but less than 101% of m/z 174	78.1 (96.3)
177	5 to 9% of m/z 176	5.2 (6.6)

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LBFB4867.D\5mL-8260_VMSL.rslt\spectra.d
Injection Date: 17-Jun-2019 10:40:30
Spectrum: Tune Spec :Average 148-150(4.14-4.15) Bgrd 144(4.11)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	6605	70.00	6774	116.00	2593	154.00	525
37.00	37440	71.00	269	117.00	4708	155.00	1957
38.00	31808	72.00	4461	118.00	2559	156.00	540
39.00	13681	73.00	38928	119.00	3775	157.00	1447
40.00	512	74.00	144960	120.00	104	158.00	322
41.00	334	75.00	439936	123.00	195	159.00	1087
42.00	59	76.00	37480	124.00	367	161.00	907
43.00	547	77.00	5214	125.00	233	170.00	107
44.00	3831	78.00	3115	126.00	368	171.00	104
45.00	7039	79.00	19912	127.00	233	172.00	2154
46.00	691	80.00	6550	128.00	2520	174.00	700544
47.00	10865	81.00	20176	129.00	1162	175.00	52048
48.00	4625	82.00	5049	130.00	2480	176.00	674560
49.00	32424	83.00	644	131.00	1022	177.00	44496
50.00	161024	86.00	1033	133.00	88	178.00	1316
51.00	50840	87.00	34776	134.00	220	191.00	67
52.00	2396	88.00	34360	135.00	1236	192.00	201
53.00	25	91.00	2689	136.00	199	193.00	5
54.00	99	92.00	22528	137.00	1185	194.00	83
55.00	1779	93.00	33400	138.00	104	195.00	107
56.00	12026	94.00	96624	139.00	139	207.00	1011
57.00	21464	95.00	863360	140.00	237	208.00	74
58.00	923	96.00	58408	141.00	7345	209.00	143
59.00	213	97.00	2041	142.00	922	211.00	138
60.00	7558	103.00	522	143.00	8194	215.00	291
61.00	38184	104.00	3151	144.00	350	219.00	87
62.00	39120	105.00	699	145.00	752	227.00	97
63.00	29584	106.00	2907	146.00	1025	233.00	377
64.00	3272	107.00	738	147.00	536	234.00	269
65.00	1384	110.00	404	148.00	1964	235.00	89
66.00	248	111.00	638	149.00	455	269.00	87
67.00	2265	112.00	311	150.00	646	281.00	44
68.00	87648	113.00	593	152.00	311	285.00	110

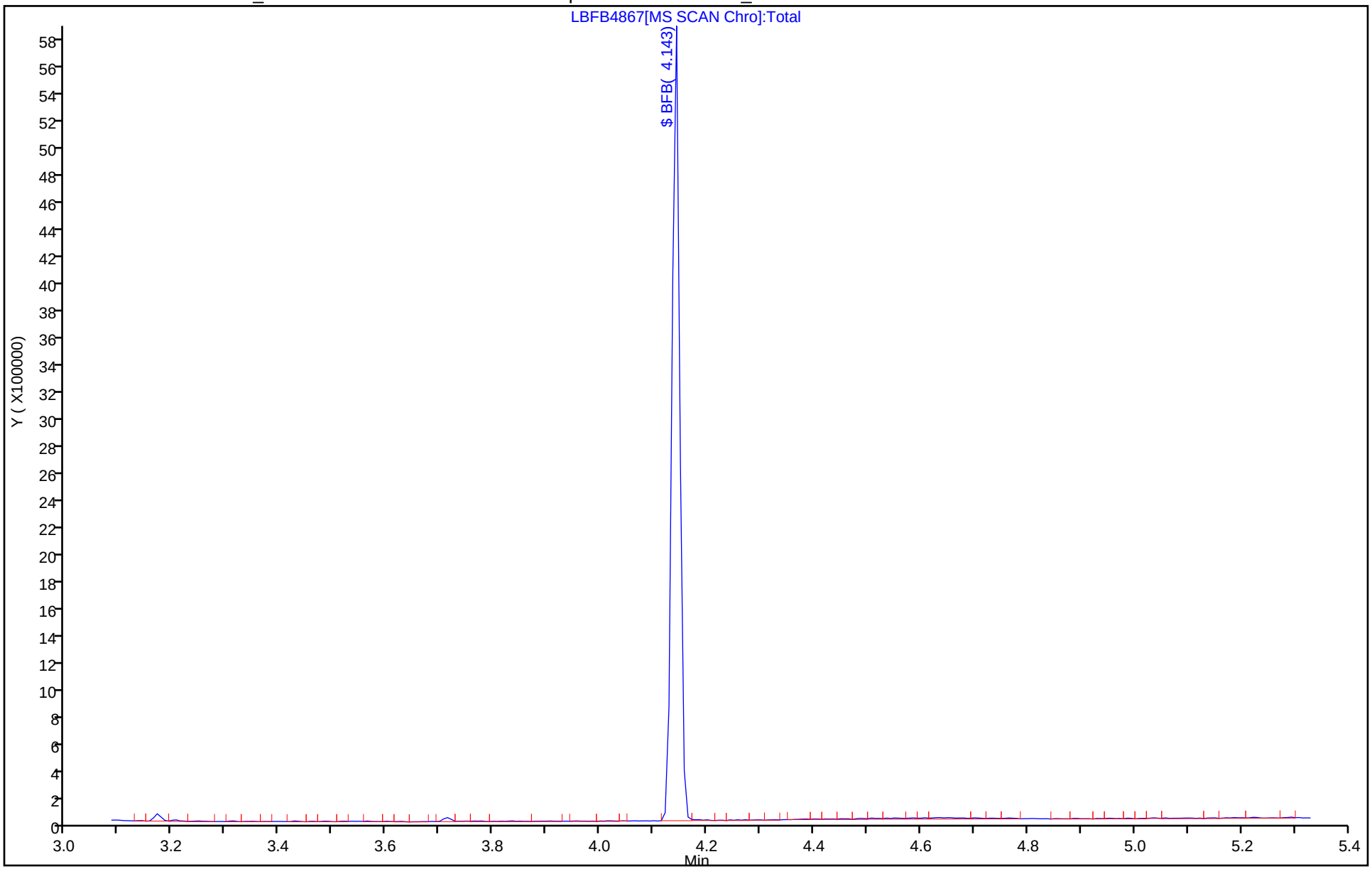
Report Date: 20-Jun-2019 11:56:11 Chrom Revision: 2.3 18-Jun-2019 21:44:00
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Injection Date: 17-Jun-2019 10:40:30
Spectrum: Tune Spec :Average 148-150(4.14-4.15) Bgrd 144(4.11)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
69.00	87120	115.00	659	153.00	591		

Report Date: 20-Jun-2019 11:56:11 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LBFB4867.D				
Injection Date:	17-Jun-2019 10:40:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 160-431879/7

Matrix: Water Lab File ID: LBLK4872.D

Analysis Method: 8260C DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	2.5	U	5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	2.5	U	5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	2.5	U	5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	2.5	U	5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	2.5	U	5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	2.5	U	5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	3.3
106-93-4	1,2-Dibromoethane	2.5	U	5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	2.5	U	5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	2.5	U	5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	2.5	U	5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	2.5	U	5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	2.5	U	5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	2.4
95-49-8	2-Chlorotoluene	2.5	U	5.0	2.5	0.86
591-78-6	2-Hexanone	5.0	U	20	5.0	4.6
106-43-4	4-Chlorotoluene	2.5	U	5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	20	10	4.6
67-64-1	Acetone	10	U	20	10	3.2
71-43-2	Benzene	2.5	U	5.0	2.5	0.33
108-86-1	Bromobenzene	2.5	U	5.0	2.5	0.81
74-97-5	Bromochloromethane	2.5	U	5.0	2.5	0.77
75-27-4	Bromodichloromethane	2.5	U	5.0	2.5	0.72
75-25-2	Bromoform	2.5	U	5.0	2.5	2.1
74-83-9	Bromomethane	5.0	U	10	5.0	2.7
75-15-0	Carbon disulfide	2.5	U	5.0	2.5	0.77
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	1.0
108-90-7	Chlorobenzene	2.5	U	5.0	2.5	0.59
75-00-3	Chloroethane	2.5	U	10	2.5	1.0
67-66-3	Chloroform	2.5	U	5.0	2.5	0.77
74-87-3	Chloromethane	2.5	U	10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	2.5	U	5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 160-431879/7

Matrix: Water Lab File ID: LBLK4872.D

Analysis Method: 8260C DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	5.0	2.6
124-48-1	Dibromochloromethane	2.5	U	5.0	2.5	0.97
74-95-3	Dibromomethane	2.5	U	5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	2.5	U	10	2.5	1.6
100-41-4	Ethylbenzene	2.5	U	5.0	2.5	0.44
98-82-8	Isopropylbenzene	2.5	U	5.0	2.5	1.9
179601-23-1	m,p-Xylenes	2.5	U	5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	2.5	U	5.0	2.5	0.79
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	5.0	U	5.0	5.0	3.0
104-51-8	n-Butylbenzene	2.5	U	5.0	2.5	1.2
103-65-1	N-Propylbenzene	2.5	U	5.0	2.5	1.4
95-47-6	o-Xylene	2.5	U	5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	2.5	U	5.0	2.5	1.3
135-98-8	sec-Butylbenzene	2.5	U	5.0	2.5	1.1
100-42-5	Styrene	2.5	U	5.0	2.5	2.0
98-06-6	tert-Butylbenzene	2.5	U	5.0	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	5.0	2.5	0.60
108-88-3	Toluene	5.0	U	5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	2.5	U	5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	2.5	U	5.0	2.5	2.1
79-01-6	Trichloroethene	2.5	U	5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	2.5	U	5.0	2.5	1.6
75-01-4	Vinyl chloride	2.0	U	5.0	2.0	1.0
1330-20-7	Xylenes (total)	5.0	U	10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		81-118
460-00-4	4-Bromofluorobenzene (Surr)	108		85-114
1868-53-7	Dibromofluoromethane (Surr)	97		80-119
2037-26-5	Toluene-d8 (Surr)	110		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LBLK4872.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Jun-2019 12:49:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: MB
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:44 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 14:42:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.150					ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.388					ND	
3 Chloromethane	50		3.500					ND	
4 Vinyl chloride	62		3.667					ND	
122 Butadiene	39		3.695					ND	
5 Bromomethane	94	4.268	4.268	0.000	83	2578		0.5749	
6 Chloroethane	64		4.477					ND	
7 Trichlorofluoromethane	101		4.715					ND	
123 Dichlorofluoromethane	67		4.826					ND	
8 Ethyl ether	74		5.231					ND	
11 Ethanol	45		5.455					ND	
9 1,1-Dichloroethene	96		5.525					ND	
10 Carbon disulfide	76		5.567					ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.581					ND	
13 Iodomethane	142		5.748					ND	
S 26 1,2-Dichloroethene, Total	96		5.816					ND	
14 Acrolein	56		6.014					ND	
15 3-Chloro-1-propene	39		6.181					ND	
16 Isopropyl alcohol	45		6.209					ND	
17 Methylene Chloride	84		6.321					ND	
18 Acetone	43		6.391					ND	
19 trans-1,2-Dichloroethene	96		6.516					ND	
20 Methyl acetate	74		6.530					ND	
21 Hexane	86		6.600					ND	
22 Methyl tert-butyl ether	73		6.642					ND	
23 2-Methyl-2-propanol	59		6.740					ND	
24 Acetonitrile	41		6.963					ND	
25 Isopropyl ether	45		7.061					ND	
27 2-Chloro-1,3-butadiene	53		7.215					ND	
28 1,1-Dichloroethane	63		7.243					ND	
29 Acrylonitrile	53		7.312					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.452					ND	
31 Vinyl acetate	43		7.480					ND	
32 cis-1,2-Dichloroethene	96		7.815					ND	
33 2,2-Dichloropropane	77		7.927					ND	
34 Cyclohexane	84		8.025					ND	
35 Chlorobromomethane	128		8.025					ND	
36 Chloroform	83		8.081					ND	
39 Ethyl acetate	45		8.164					ND	
37 Carbon tetrachloride	117		8.234					ND	
38 Tetrahydrofuran	71		8.248					ND	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	93	256296	50.0		48.4
40 1,1,1-Trichloroethane	97		8.304					ND	
43 2-Butanone (MEK)	43		8.374					ND	
42 1,1-Dichloropropene	75		8.416					ND	
125 Isooctane	57		8.486					ND	
117 n-Heptane	43		8.555					ND	
44 Benzene	78		8.653					ND	
45 Propionitrile	54		8.681					ND	
46 Methacrylonitrile	41		8.695					ND	
48 Tert-amyl methyl ether	73		8.723					ND	
50 Isobutyl alcohol	42		8.779					ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	298268	50.0		48.2
49 1,2-Dichloroethane	62		8.849					ND	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1416365	50.0		50.0
118 1,4-Difluorobenzene	114		9.130					ND	
52 Methylcyclohexane	55		9.184					ND	
53 Trichloroethene	95		9.198					ND	
54 n-Butanol	56		9.421					ND	
55 Dibromomethane	93		9.603					ND	
124 Ethyl acrylate	55		9.631					ND	
56 1,2-Dichloropropane	63		9.687					ND	
57 Dichlorobromomethane	83		9.729					ND	
58 Methyl methacrylate	69		9.812					ND	
59 1,4-Dioxane	88		9.896					ND	
60 2-Chloroethyl vinyl ether	63		10.203					ND	
128 2-Pentanone	43		10.253					ND	
61 cis-1,3-Dichloropropene	75		10.287					ND	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	94	1329831	50.0		55.0
63 Toluene	92		10.511					ND	
64 2-Nitropropane	43		10.734					ND	
66 4-Methyl-2-pentanone (MIBK	43		10.818					ND	
65 Tetrachloroethene	164		10.860					ND	
67 trans-1,3-Dichloropropene	75		10.874					ND	
69 Ethyl methacrylate	69		10.944					ND	
68 1,1,2-Trichloroethane	83		11.027					ND	
70 Chlorodibromomethane	129		11.209					ND	
71 1,3-Dichloropropane	76		11.279					ND	
119 n-Butyl acetate	43		11.432					ND	
72 Ethylene Dibromide	107		11.446					ND	
74 2-Hexanone	43		11.558					ND	
S 73 1,3-Dichloropropene, Total	75		11.620					ND	
75 1-Chlorohexane	91		11.824					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	91	832654	50.0	50.0	
78 Ethylbenzene	91		11.879					ND	
77 Chlorobenzene	112		11.893					ND	
79 1,1,1,2-Tetrachloroethane	131		11.935					ND	
80 m-Xylene & p-Xylene	106		12.005					ND	
82 o-Xylene	106		12.410					ND	
83 Styrene	104		12.466					ND	
84 Bromoform	173		12.536					ND	
85 Isopropylbenzene	105		12.689					ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.014	91	424421	50.0	54.0	
88 N-Propylbenzene	91		13.080					ND	
87 Bromobenzene	156		13.108					ND	
89 1,1,2,2-Tetrachloroethane	83		13.136					ND	
91 1,3,5-Trimethylbenzene	105		13.234					ND	
90 2-Chlorotoluene	91		13.262					ND	
92 1,2,3-Trichloropropane	110		13.304					ND	
93 trans-1,4-Dichloro-2-buten	53		13.318					ND	
94 Cyclohexanone	55		13.374					ND	
95 4-Chlorotoluene	91	13.416	13.416	0.000	90	3881		0.1702	
96 tert-Butylbenzene	119	13.569	13.555	0.014	93	6186		0.2812	
81 Pentachloroethane	167		13.557					ND	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	92	5740		0.2319	
98 sec-Butylbenzene	105	13.737	13.723	0.014	93	10714		0.3007	
99 4-Isopropyltoluene	119	13.849	13.849	0.000	96	8103		0.2883	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	93	4023		0.3236	
120 1,2,3-Trimethylbenzene	105		14.058					ND	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	97	387391	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	80	4397		0.3557	
103 n-Butylbenzene	134	14.268	14.268	0.000	58	2709		0.4100	
121 Benzyl chloride	126		14.296					ND	
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	94	4631		0.4323	
106 n-Nonyl Aldehyde	57		15.203					ND	
105 1,2-Dibromo-3-Chloropropan	157		15.287					ND	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	94	10703		1.08	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	93	14600		2.21	
109 1,2,4-Trichlorobenzene	180	15.944	15.944	0.000	93	10690		1.47	
110 Naphthalene	128	16.307	16.307	0.000	97	15027		1.84	
S 112 Xylenes, Total	106		16.500					ND	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	93	11885		2.01	
127 2-Methylpentane	1		0.000					ND	
S 113 Trihalomethanes, Total	1		0.000					ND	
126 C6-C12	1		0.000					ND	

Reagents:

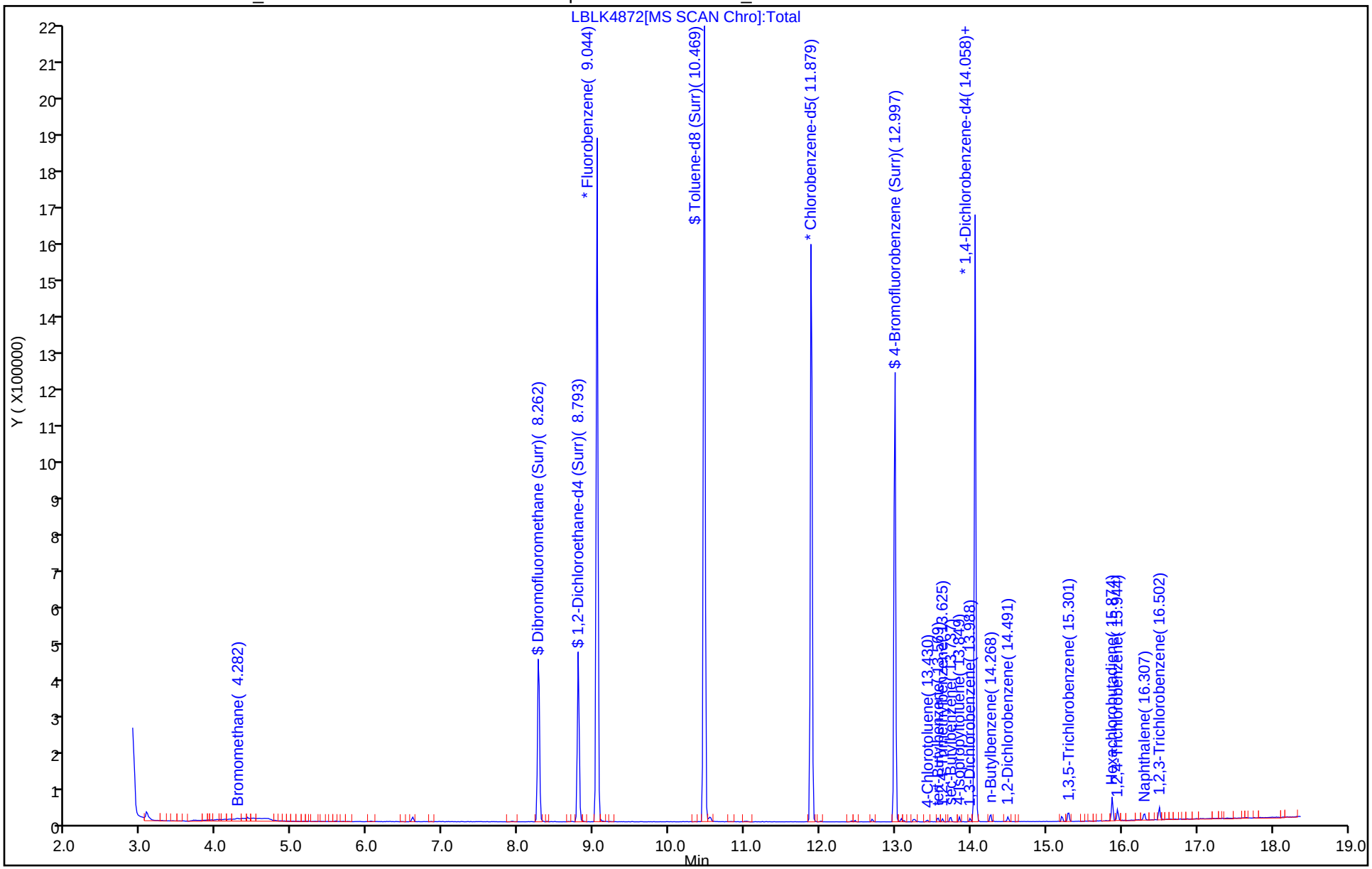
I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:50 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LBLK4872.D

Injection Date:	17-Jun-2019 12:49:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LBLK4872.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Jun-2019 12:49:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: MB
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:44 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 14:42:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	48.4	96.89
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	48.2	96.44
$ 62 Toluene-d8 (Surr)	50.0	55.0	109.98
$ 86 4-Bromofluorobenzene (Surr)	50.0	54.0	108.09

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 160-431879/4

Matrix: Water Lab File ID: LLCS4869.D

Analysis Method: 8260C DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 11:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	49.9		5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	49.8		5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	51.8		5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	50.0		5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	50.7		5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	52.9		5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	52.7		5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	56.6		5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	50.5		5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	52.2		5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	56.4		10	5.0	3.3
106-93-4	1,2-Dibromoethane	51.0		5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	49.8		5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	51.3		5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	52.6		5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	51.0		5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	51.4		5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	56.7	M	20	5.0	2.4
95-49-8	2-Chlorotoluene	50.6		5.0	2.5	0.86
591-78-6	2-Hexanone	52.8		20	5.0	4.6
106-43-4	4-Chlorotoluene	51.3		5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	56.8		20	10	4.6
67-64-1	Acetone	55.0		20	10	3.2
71-43-2	Benzene	50.4		5.0	2.5	0.33
108-86-1	Bromobenzene	50.4		5.0	2.5	0.81
74-97-5	Bromochloromethane	50.3		5.0	2.5	0.77
75-27-4	Bromodichloromethane	51.1		5.0	2.5	0.72
75-25-2	Bromoform	54.8		5.0	2.5	2.1
74-83-9	Bromomethane	48.5		10	5.0	2.7
75-15-0	Carbon disulfide	52.9		5.0	2.5	0.77
56-23-5	Carbon tetrachloride	49.7		5.0	2.5	1.0
108-90-7	Chlorobenzene	49.3		5.0	2.5	0.59
75-00-3	Chloroethane	53.2		10	2.5	1.0
67-66-3	Chloroform	48.4		5.0	2.5	0.77
74-87-3	Chloromethane	50.8		10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	51.2		5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 160-431879/4

Matrix: Water Lab File ID: LLCS4869.D

Analysis Method: 8260C DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 11:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	53.8		5.0	5.0	2.6
124-48-1	Dibromochloromethane	51.4		5.0	2.5	0.97
74-95-3	Dibromomethane	50.3		5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	57.3		10	2.5	1.6
100-41-4	Ethylbenzene	50.4		5.0	2.5	0.44
98-82-8	Isopropylbenzene	51.7		5.0	2.5	1.9
179601-23-1	m,p-Xylenes	51.8		5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	53.2		5.0	2.5	0.79
75-09-2	Methylene Chloride	50.1		7.5	5.0	1.7
91-20-3	Naphthalene	61.0		5.0	5.0	3.0
104-51-8	n-Butylbenzene	53.7		5.0	2.5	1.2
103-65-1	N-Propylbenzene	52.1		5.0	2.5	1.4
95-47-6	o-Xylene	53.0		5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	52.4		5.0	2.5	1.3
135-98-8	sec-Butylbenzene	51.4		5.0	2.5	1.1
100-42-5	Styrene	54.1		5.0	2.5	2.0
98-06-6	tert-Butylbenzene	51.4		5.0	2.5	1.1
127-18-4	Tetrachloroethene	50.5		5.0	2.5	0.60
108-88-3	Toluene	50.3		5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	51.4		5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	53.3		5.0	2.5	2.1
79-01-6	Trichloroethene	49.6		5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	49.7		5.0	2.5	1.6
75-01-4	Vinyl chloride	52.3		5.0	2.0	1.0
1330-20-7	Xylenes (total)	105		10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		81-118
460-00-4	4-Bromofluorobenzene (Surr)	104		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	103		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LLCS4869.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Jun-2019 11:34:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: LCS
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:44 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 14:32:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	570209	50.0	57.3	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	96	161621	50.0	37.6	
3 Chloromethane	50	3.500	3.500	0.000	99	616588	50.0	50.8	
4 Vinyl chloride	62	3.667	3.667	0.000	98	581741	50.0	52.3	
122 Butadiene	39	3.695	3.695	0.000	90	563457	50.0	54.7	
5 Bromomethane	94	4.268	4.268	0.000	91	234317	50.0	48.5	
6 Chloroethane	64	4.477	4.477	0.000	100	326969	50.0	53.2	
7 Trichlorofluoromethane	101	4.715	4.715	0.000	98	665066	50.0	49.7	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	97	772654	50.0	50.8	
8 Ethyl ether	74	5.231	5.231	0.000	92	181342	50.0	54.5	
11 Ethanol	45	5.455	5.455	0.000	100	84964	2000.0	2364.7	
9 1,1-Dichloroethene	96	5.525	5.525	0.000	94	365862	50.0	52.9	
10 Carbon disulfide	76	5.567	5.567	0.000	99	1465382	50.0	52.9	
12 1,1,2-Trichloro-1,2,2-trif	151	5.581	5.581	0.000	93	289768	50.0	50.4	
13 Iodomethane	142	5.748	5.748	0.000	99	258844	50.0	49.2	
14 Acrolein	56	6.013	6.014	-0.001	99	112179	250.0	380.6	
15 3-Chloro-1-propene	39	6.181	6.181	0.000	93	471351	50.0	52.0	
16 Isopropyl alcohol	45	6.209	6.209	0.000	98	130907	500.0	604.4	
17 Methylene Chloride	84	6.321	6.321	0.000	97	347607	50.0	50.1	
18 Acetone	43	6.391	6.391	0.000	100	57049	50.0	55.0	
19 trans-1,2-Dichloroethene	96	6.516	6.516	0.000	96	406082	50.0	51.4	
20 Methyl acetate	74	6.530	6.530	0.000	98	60427	250.0	275.5	
21 Hexane	86	6.600	6.600	0.000	91	152087	50.0	55.3	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	89	777647	50.0	53.2	
23 2-Methyl-2-propanol	59	6.740	6.740	0.000	98	219411	500.0	626.0	
24 Acetonitrile	41	6.963	6.963	0.000	99	208231	500.0	548.6	
25 Isopropyl ether	45	7.061	7.061	0.000	95	1198348	50.0	54.0	
27 2-Chloro-1,3-butadiene	53	7.215	7.215	0.000	92	704604	50.0	52.7	
28 1,1-Dichloroethane	63	7.243	7.243	0.000	95	786551	50.0	50.7	
29 Acrylonitrile	53	7.312	7.312	0.000	99	682832	500.0	533.1	
30 Tert-butyl ethyl ether	59	7.452	7.452	0.000	99	1040806	50.0	53.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Vinyl acetate	43	7.480	7.480	0.000	97	523592	50.0	53.7	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	391051	50.0	51.2	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	90	667117	50.0	51.4	
34 Cyclohexane	84	8.025	8.025	0.000	90	764776	50.0	53.4	
35 Chlorobromomethane	128	8.025	8.025	0.000	52	120881	50.0	50.3	
36 Chloroform	83	8.080	8.081	-0.001	93	642580	50.0	48.4	
39 Ethyl acetate	45	8.164	8.164	0.000	99	55150	100.0	107.1	
37 Carbon tetrachloride	117	8.234	8.234	0.000	97	518802	50.0	49.7	
38 Tetrahydrofuran	71	8.248	8.248	0.000	89	43094	100.0	113.6	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	93	287331	50.0	50.5	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	98	635077	50.0	49.8	
43 2-Butanone (MEK)	43	8.374	8.374	0.000	100	86923	50.0	56.7	a
42 1,1-Dichloropropene	75	8.416	8.416	0.000	96	644465	50.0	52.7	
125 Isooctane	57	8.486	8.486	0.000	96	2045518	50.0	51.1	
117 n-Heptane	43	8.569	8.555	0.014	93	901929	50.0	53.3	
44 Benzene	78	8.667	8.653	0.014	96	1721803	50.0	50.4	
45 Propionitrile	54	8.695	8.681	0.014	92	273625	500.0	532.0	
46 Methacrylonitrile	41	8.709	8.695	0.014	93	1315434	500.0	526.3	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	98	855583	50.0	52.3	
50 Isobutyl alcohol	42	8.793	8.779	0.014	93	150501	1250.0	1551.6	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	99	335772	50.0	50.4	
49 1,2-Dichloroethane	62	8.863	8.849	0.014	97	391282	50.0	49.8	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1524579	50.0	50.0	
52 Methylcyclohexane	55	9.198	9.184	0.014	91	749909	50.0	52.2	
53 Trichloroethene	95	9.198	9.198	0.000	59	424206	50.0	49.6	
54 n-Butanol	56	9.421	9.421	0.000	89	161966	1250.0	1453.7	
55 Dibromomethane	93	9.603	9.603	0.000	96	139683	50.0	50.3	
124 Ethyl acrylate	55	9.631	9.631	0.000	99	252438	50.0	50.0	
56 1,2-Dichloropropane	63	9.687	9.687	0.000	96	393623	50.0	51.3	
57 Dichlorobromomethane	83	9.729	9.729	-0.001	98	429579	50.0	51.1	
58 Methyl methacrylate	69	9.812	9.812	0.000	92	301037	100.0	100.8	
59 1,4-Dioxane	88	9.910	9.896	0.014	97	40790	1000.0	1135.3	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	91	140031	50.0	48.9	
61 cis-1,3-Dichloropropene	75	10.301	10.287	0.014	95	553729	50.0	53.8	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	1434661	50.0	51.6	
63 Toluene	92	10.511	10.511	0.000	98	1035996	50.0	50.3	
64 2-Nitropropane	43	10.734	10.734	0.000	99	106226	100.0	108.7	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	97	189612	50.0	56.8	
65 Tetrachloroethene	164	10.874	10.860	0.014	95	341415	50.0	50.5	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	95	458404	50.0	53.3	
69 Ethyl methacrylate	69	10.944	10.944	0.000	90	300958	50.0	47.8	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	92	187642	50.0	50.0	
70 Chlorodibromomethane	129	11.209	11.209	0.000	91	213181	50.0	51.4	
71 1,3-Dichloropropane	76	11.279	11.279	0.000	92	426484	50.0	51.0	
119 n-Butyl acetate	43	11.432	11.432	0.000	98	321727	50.0	49.2	
72 Ethylene Dibromide	107	11.446	11.446	0.000	98	189228	50.0	51.0	
74 2-Hexanone	43	11.558	11.558	0.000	97	130346	50.0	52.8	
75 1-Chlorohexane	91	11.823	11.824	-0.001	98	664076	50.0	53.2	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	95	957278	50.0	50.0	
78 Ethylbenzene	91	11.893	11.879	0.014	97	2031768	50.0	50.4	
77 Chlorobenzene	112	11.907	11.893	0.014	92	967756	50.0	49.3	
79 1,1,1,2-Tetrachloroethane	131	11.949	11.935	0.014	94	282208	50.0	49.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 m-Xylene & p-Xylene	106	12.005	12.005	0.000	100	749715	50.0	51.8	
82 o-Xylene	106	12.424	12.410	0.014	98	668955	50.0	53.0	
83 Styrene	104	12.466	12.466	0.000	94	1015622	50.0	54.1	
84 Bromoform	173	12.536	12.536	0.000	96	138391	50.0	54.8	
85 Isopropylbenzene	105	12.689	12.689	0.000	96	1898609	50.0	51.7	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.014	94	480028	50.0	52.0	
88 N-Propylbenzene	91	13.080	13.080	0.000	99	2438777	50.0	52.1	
87 Bromobenzene	156	13.122	13.108	0.014	94	363620	50.0	50.4	
89 1,1,2,2-Tetrachloroethane	83	13.136	13.136	0.000	95	244979	50.0	51.8	
91 1,3,5-Trimethylbenzene	105	13.234	13.234	0.000	94	1539731	50.0	52.6	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	1537233	50.0	50.6	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	86	67795	50.0	50.5	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	91	80099	50.0	52.9	
94 Cyclohexanone	55	13.374	13.374	0.000	93	68832	500.0	595.3	
95 4-Chlorotoluene	91	13.416	13.416	0.000	98	1373098	50.0	51.3	
96 tert-Butylbenzene	119	13.569	13.555	0.014	93	1328026	50.0	51.4	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	97	1518208	50.0	52.2	
98 sec-Butylbenzene	105	13.723	13.723	0.000	96	2150182	50.0	51.4	
99 4-Isopropyltoluene	119	13.849	13.849	0.000	97	1730060	50.0	52.4	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	96	740004	50.0	50.7	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	97	1437295	50.0	50.9	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	71	455062	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	90	727007	50.0	50.1	
103 n-Butylbenzene	134	14.268	14.268	0.000	97	416760	50.0	53.7	
121 Benzyl chloride	126	14.295	14.296	-0.001	97	91836	50.0	56.9	
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	95	638578	50.0	50.8	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	89	183315	50.0	51.0	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	79	39517	50.0	56.4	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	96	616600	50.0	53.0	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	94	417587	50.0	53.8	
109 1,2,4-Trichlorobenzene	180	15.943	15.944	-0.001	94	478792	50.0	56.1	
110 Naphthalene	128	16.307	16.307	0.000	98	583409	50.0	61.0	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	94	392753	50.0	56.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

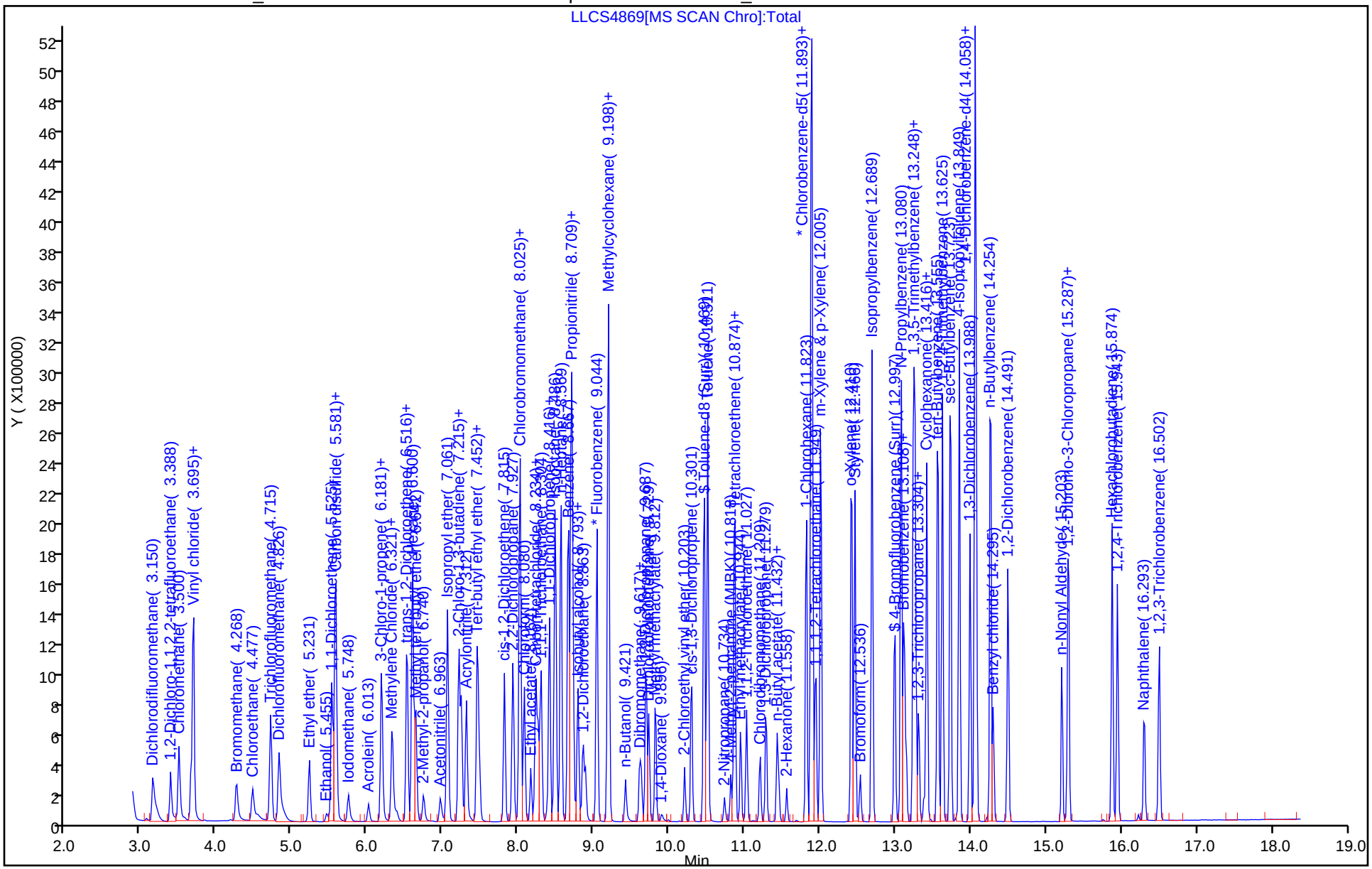
8260 NewWkMix_00331	Amount Added: 10.00	Units: uL	
I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:47 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LLCS4869.D

Injection Date:	17-Jun-2019 11:34:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LLCS4869.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Jun-2019 11:34:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: LCS
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:44 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 14:32:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.5	100.91
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.4	100.86
$ 62 Toluene-d8 (Surr)	50.0	51.6	103.20
$ 86 4-Bromofluorobenzene (Surr)	50.0	52.0	104.07

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

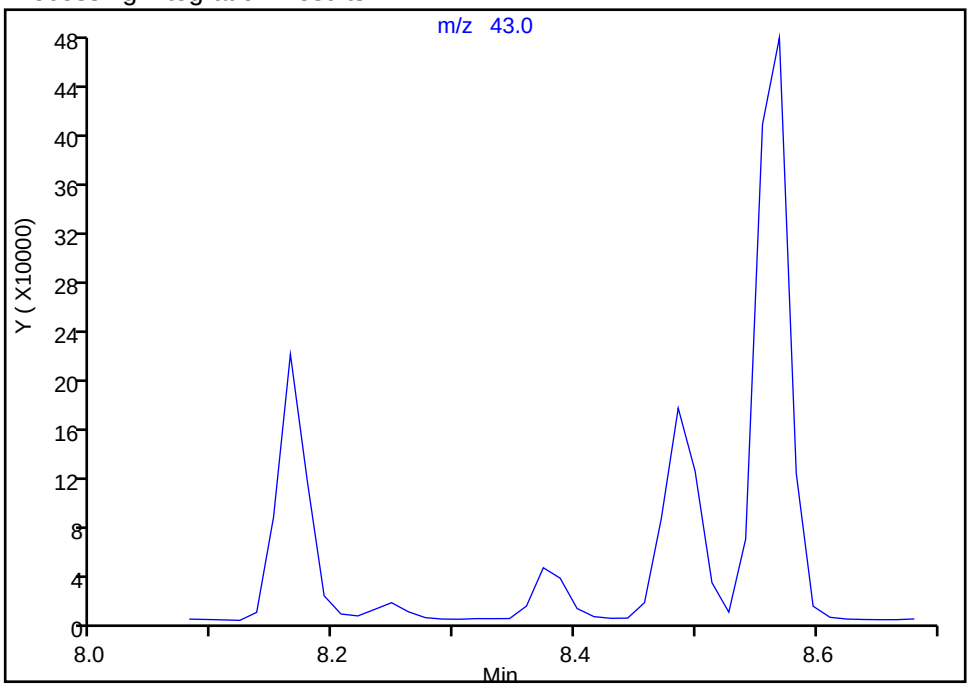
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Injection Date: 17-Jun-2019 11:34:30 Instrument ID: VMSL
Lims ID: LCS
Client ID:
Operator ID: KA ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

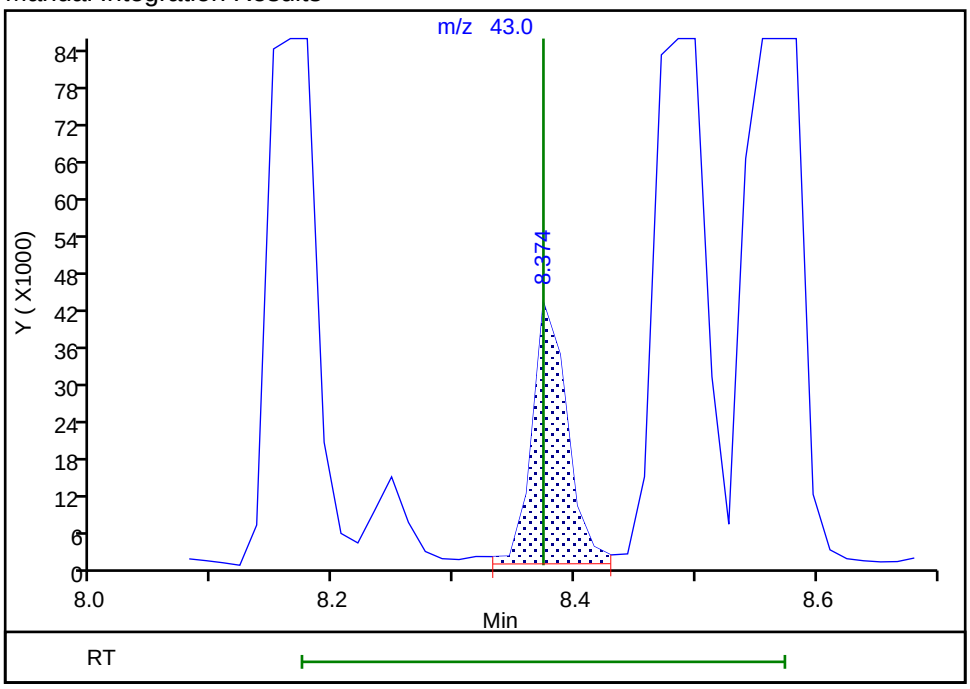
Not Detected
Expected RT: 8.37

Processing Integration Results



Manual Integration Results

RT: 8.37
Area: 86923
Amount: 56.734372
Amount Units: ug/l



Reviewer: aguk, 17-Jun-2019 14:32:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 160-431879/5

Matrix: Water Lab File ID: LLCS4870.D

Analysis Method: 8260C DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 11:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	51.1		5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	50.8		5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	50.3		5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	50.2		5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	51.4		5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	53.8		5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	53.7		5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	57.3		5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	50.2		5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	54.2		5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	55.8		10	5.0	3.3
106-93-4	1,2-Dibromoethane	51.4		5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	49.4		5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	52.0		5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	55.1		5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	51.0		5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	52.1		5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	55.0	M	20	5.0	2.4
95-49-8	2-Chlorotoluene	51.9		5.0	2.5	0.86
591-78-6	2-Hexanone	50.0		20	5.0	4.6
106-43-4	4-Chlorotoluene	53.4		5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	56.1		20	10	4.6
67-64-1	Acetone	49.9		20	10	3.2
71-43-2	Benzene	50.7		5.0	2.5	0.33
108-86-1	Bromobenzene	51.2		5.0	2.5	0.81
74-97-5	Bromochloromethane	49.8		5.0	2.5	0.77
75-27-4	Bromodichloromethane	51.4		5.0	2.5	0.72
75-25-2	Bromoform	54.6		5.0	2.5	2.1
74-83-9	Bromomethane	49.1		10	5.0	2.7
75-15-0	Carbon disulfide	53.7		5.0	2.5	0.77
56-23-5	Carbon tetrachloride	50.3		5.0	2.5	1.0
108-90-7	Chlorobenzene	50.7		5.0	2.5	0.59
75-00-3	Chloroethane	54.7		10	2.5	1.0
67-66-3	Chloroform	50.2		5.0	2.5	0.77
74-87-3	Chloromethane	51.1		10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	51.8		5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 160-431879/5

Matrix: Water Lab File ID: LLCS4870.D

Analysis Method: 8260C DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 11:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	53.8		5.0	5.0	2.6
124-48-1	Dibromochloromethane	51.7		5.0	2.5	0.97
74-95-3	Dibromomethane	50.0		5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	57.9		10	2.5	1.6
100-41-4	Ethylbenzene	51.9		5.0	2.5	0.44
98-82-8	Isopropylbenzene	54.2		5.0	2.5	1.9
179601-23-1	m,p-Xylenes	53.3		5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	52.4		5.0	2.5	0.79
75-09-2	Methylene Chloride	50.4		7.5	5.0	1.7
91-20-3	Naphthalene	61.1		5.0	5.0	3.0
104-51-8	n-Butylbenzene	55.5		5.0	2.5	1.2
103-65-1	N-Propylbenzene	54.7		5.0	2.5	1.4
95-47-6	o-Xylene	54.6		5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	54.7		5.0	2.5	1.3
135-98-8	sec-Butylbenzene	54.0		5.0	2.5	1.1
100-42-5	Styrene	55.6		5.0	2.5	2.0
98-06-6	tert-Butylbenzene	53.8		5.0	2.5	1.1
127-18-4	Tetrachloroethene	52.4		5.0	2.5	0.60
108-88-3	Toluene	52.2		5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	52.7		5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	53.9		5.0	2.5	2.1
79-01-6	Trichloroethene	51.4		5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	50.8		5.0	2.5	1.6
75-01-4	Vinyl chloride	53.1		5.0	2.0	1.0
1330-20-7	Xylenes (total)	108		10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		81-118
460-00-4	4-Bromofluorobenzene (Surr)	106		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	104		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LLCS4870.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 17-Jun-2019 11:59:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: LCSD
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:44 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 14:33:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	583704	50.0	57.9	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	96	166538	50.0	38.3	
3 Chloromethane	50	3.500	3.500	0.000	99	627914	50.0	51.1	
4 Vinyl chloride	62	3.667	3.667	0.000	98	598510	50.0	53.1	
122 Butadiene	39	3.695	3.695	0.000	90	578401	50.0	55.4	
5 Bromomethane	94	4.268	4.268	0.000	91	240205	50.0	49.1	
6 Chloroethane	64	4.477	4.477	0.000	99	340576	50.0	54.7	
7 Trichlorofluoromethane	101	4.715	4.715	0.000	98	689200	50.0	50.8	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	97	789777	50.0	51.3	
8 Ethyl ether	74	5.231	5.231	0.000	92	183574	50.0	54.5	
11 Ethanol	45	5.455	5.455	0.000	100	80208	2000.0	2203.2	
9 1,1-Dichloroethene	96	5.525	5.525	0.000	95	377602	50.0	53.8	
10 Carbon disulfide	76	5.581	5.567	0.014	99	1507905	50.0	53.7	
12 1,1,2-Trichloro-1,2,2-trif	151	5.581	5.581	0.000	50	298198	50.0	51.2	
13 Iodomethane	142	5.748	5.748	0.000	99	274073	50.0	51.3	
14 Acrolein	56	6.014	6.014	0.000	99	108255	250.0	362.5	
15 3-Chloro-1-propene	39	6.181	6.181	0.000	93	484729	50.0	52.8	
16 Isopropyl alcohol	45	6.209	6.209	0.000	98	121483	500.0	553.6	
17 Methylene Chloride	84	6.335	6.321	0.014	97	353804	50.0	50.4	
18 Acetone	43	6.391	6.391	0.000	100	52440	50.0	49.9	
19 trans-1,2-Dichloroethene	96	6.516	6.516	0.000	96	421848	50.0	52.7	
20 Methyl acetate	74	6.530	6.530	0.000	98	59754	250.0	268.9	
21 Hexane	86	6.600	6.600	0.000	90	157526	50.0	56.5	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	86	775661	50.0	52.4	
23 2-Methyl-2-propanol	59	6.740	6.740	0.000	98	203436	500.0	572.8	
24 Acetonitrile	41	6.963	6.963	0.000	100	191405	500.0	497.7	
25 Isopropyl ether	45	7.061	7.061	0.000	95	1218032	50.0	54.2	
27 2-Chloro-1,3-butadiene	53	7.215	7.215	0.000	92	726986	50.0	53.6	
28 1,1-Dichloroethane	63	7.243	7.243	0.000	96	808129	50.0	51.4	
29 Acrylonitrile	53	7.312	7.312	0.000	100	668865	500.0	515.4	
30 Tert-butyl ethyl ether	59	7.452	7.452	0.000	99	1054542	50.0	53.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Vinyl acetate	43	7.480	7.480	0.000	97	469211	50.0	47.5	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	400717	50.0	51.8	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	90	685587	50.0	52.1	
34 Cyclohexane	84	8.025	8.025	0.000	90	790908	50.0	54.5	
35 Chlorobromomethane	128	8.025	8.025	0.000	51	121216	50.0	49.8	
36 Chloroform	83	8.081	8.081	0.000	94	675292	50.0	50.2	
39 Ethyl acetate	45	8.164	8.164	0.000	99	53910	100.0	103.3	
37 Carbon tetrachloride	117	8.234	8.234	0.000	97	532753	50.0	50.3	
38 Tetrahydrofuran	71	8.248	8.248	0.000	89	42694	100.0	111.0	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	290719	50.0	50.4	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	98	656325	50.0	50.8	
43 2-Butanone (MEK)	43	8.374	8.374	0.000	100	85303	50.0	55.0	a
42 1,1-Dichloropropene	75	8.416	8.416	0.000	96	665697	50.0	53.7	
125 Isooctane	57	8.486	8.486	0.000	96	2121863	50.0	52.3	
117 n-Heptane	43	8.569	8.555	0.014	93	938530	50.0	54.8	
44 Benzene	78	8.667	8.653	0.014	96	1755613	50.0	50.7	
45 Propionitrile	54	8.695	8.681	0.014	94	268011	500.0	514.3	
46 Methacrylonitrile	41	8.709	8.695	0.014	93	1275534	500.0	503.7	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	98	867948	50.0	52.4	
50 Isobutyl alcohol	42	8.793	8.779	0.014	92	141609	1250.0	1440.9	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	99	335596	50.0	49.7	
49 1,2-Dichloroethane	62	8.863	8.849	0.014	97	393403	50.0	49.4	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1544708	50.0	50.0	
52 Methylcyclohexane	55	9.198	9.184	0.014	91	773125	50.0	53.2	
53 Trichloroethene	95	9.198	9.198	0.000	60	445342	50.0	51.4	
54 n-Butanol	56	9.421	9.421	0.000	89	149662	1250.0	1331.3	
55 Dibromomethane	93	9.603	9.603	0.000	95	140637	50.0	50.0	
124 Ethyl acrylate	55	9.631	9.631	0.000	99	245348	50.0	48.1	
56 1,2-Dichloropropane	63	9.701	9.687	0.014	96	404238	50.0	52.0	
57 Dichlorobromomethane	83	9.729	9.729	0.000	99	437842	50.0	51.4	
58 Methyl methacrylate	69	9.812	9.812	0.000	92	295374	100.0	97.8	
59 1,4-Dioxane	88	9.910	9.896	0.014	99	38726	1000.0	1066.7	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	91	138225	50.0	47.7	
61 cis-1,3-Dichloropropene	75	10.301	10.287	0.014	94	560923	50.0	53.8	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	1444572	50.0	52.1	
63 Toluene	92	10.511	10.511	0.000	98	1071492	50.0	52.2	
64 2-Nitropropane	43	10.734	10.734	0.000	99	100470	100.0	103.8	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	96	186429	50.0	56.1	
65 Tetrachloroethene	164	10.874	10.860	0.014	95	352509	50.0	52.4	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	94	461677	50.0	53.9	
69 Ethyl methacrylate	69	10.944	10.944	0.000	90	298098	50.0	47.6	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	92	187737	50.0	50.2	
70 Chlorodibromomethane	129	11.209	11.209	0.000	91	213580	50.0	51.7	
71 1,3-Dichloropropane	76	11.293	11.279	0.014	92	425416	50.0	51.0	
119 n-Butyl acetate	43	11.432	11.432	0.000	98	312815	50.0	48.0	
72 Ethylene Dibromide	107	11.446	11.446	0.000	97	189790	50.0	51.4	
74 2-Hexanone	43	11.558	11.558	0.000	96	122640	50.0	50.0	
75 1-Chlorohexane	91	11.824	11.824	0.000	98	685964	50.0	55.2	
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	95	953917	50.0	50.0	
78 Ethylbenzene	91	11.893	11.879	0.014	99	2083741	50.0	51.9	
77 Chlorobenzene	112	11.907	11.893	0.014	92	991806	50.0	50.7	
79 1,1,1,2-Tetrachloroethane	131	11.949	11.935	0.014	94	287996	50.0	51.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 m-Xylene & p-Xylene	106	12.005	12.005	0.000	100	768950	50.0	53.3	
82 o-Xylene	106	12.424	12.410	0.014	98	687244	50.0	54.6	
83 Styrene	104	12.466	12.466	0.000	94	1039983	50.0	55.6	
84 Bromoform	173	12.536	12.536	0.000	97	136865	50.0	54.6	
85 Isopropylbenzene	105	12.689	12.689	0.000	97	1974459	50.0	54.2	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.014	92	486137	50.0	53.1	
88 N-Propylbenzene	91	13.080	13.080	0.000	99	2541250	50.0	54.7	
87 Bromobenzene	156	13.122	13.108	0.014	94	366202	50.0	51.2	
89 1,1,2,2-Tetrachloroethane	83	13.150	13.136	0.014	95	236216	50.0	50.3	
91 1,3,5-Trimethylbenzene	105	13.234	13.234	0.000	94	1600728	50.0	55.1	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	1563788	50.0	51.9	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	85	66879	50.0	50.2	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	94	78606	50.0	52.3	
94 Cyclohexanone	55	13.388	13.374	0.014	92	64414	500.0	565.5	
95 4-Chlorotoluene	91	13.416	13.416	0.000	98	1418493	50.0	53.4	
96 tert-Butylbenzene	119	13.569	13.555	0.014	93	1380173	50.0	53.8	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	97	1562930	50.0	54.2	
98 sec-Butylbenzene	105	13.737	13.723	0.014	95	2242923	50.0	54.0	
99 4-Isopropyltoluene	119	13.849	13.849	0.000	97	1792275	50.0	54.7	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	96	752846	50.0	52.0	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	97	1459875	50.0	52.1	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	71	451323	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	91	743659	50.0	51.6	
103 n-Butylbenzene	134	14.268	14.268	0.000	98	427290	50.0	55.5	
121 Benzyl chloride	126	14.296	14.296	0.000	98	89150	50.0	55.7	
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	95	645752	50.0	51.7	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	89	176418	50.0	49.7	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	70	38770	50.0	55.8	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	95	629093	50.0	54.5	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	94	433242	50.0	56.3	
109 1,2,4-Trichlorobenzene	180	15.944	15.944	0.000	94	487969	50.0	57.6	
110 Naphthalene	128	16.307	16.307	0.000	98	579651	50.0	61.1	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	94	394377	50.0	57.3	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

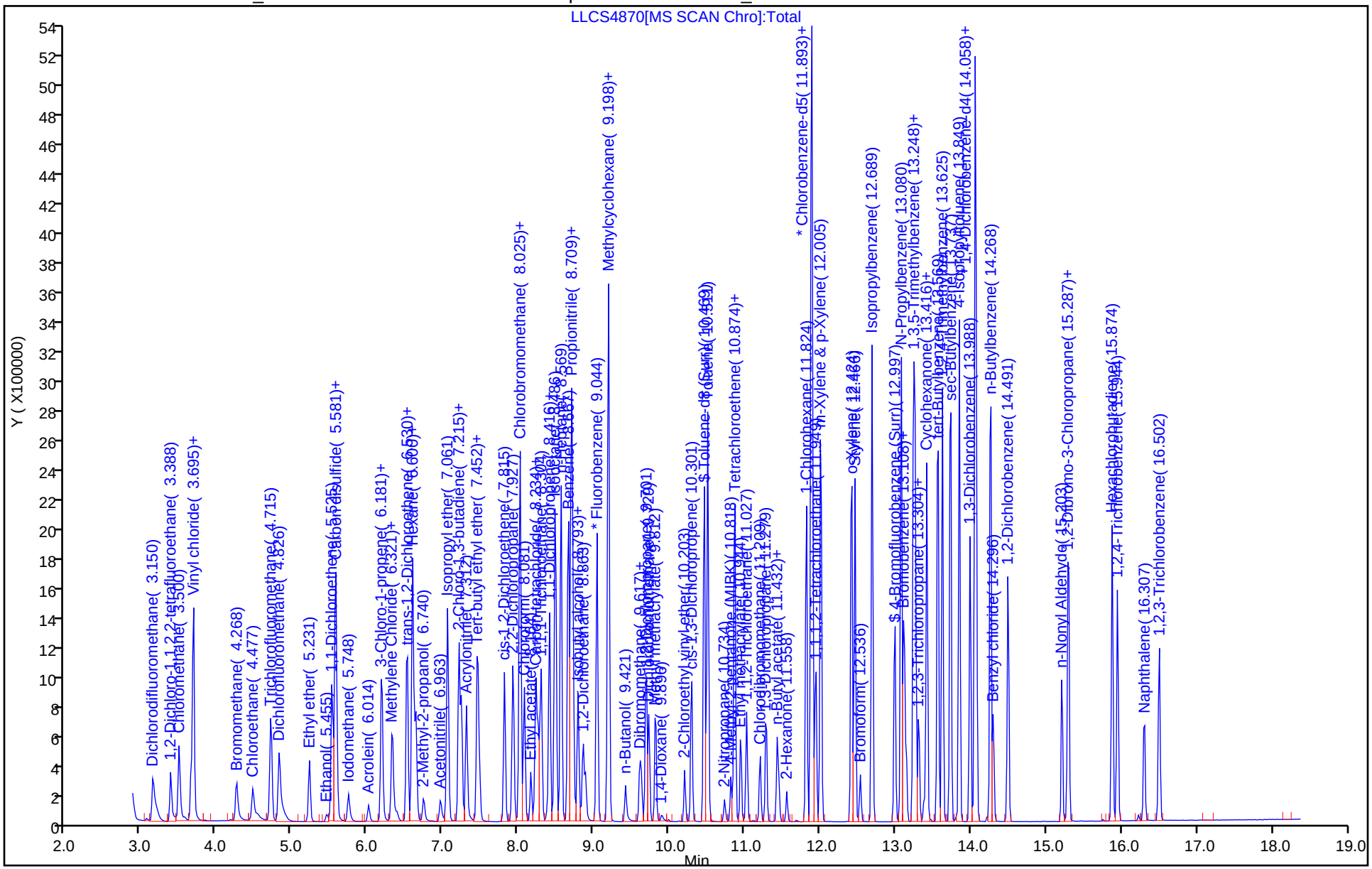
8260 NewWkMix_00331	Amount Added: 10.00	Units: uL	
I.S. Working_00177	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:48 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LLCS4870.D

Injection Date:	17-Jun-2019 11:59:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LLCS4870.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 17-Jun-2019 11:59:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: LCSD
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:44 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 14:33:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.4	100.77
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	49.7	99.49
$ 62 Toluene-d8 (Surr)	50.0	52.1	104.28
$ 86 4-Bromofluorobenzene (Surr)	50.0	53.1	106.27

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, St. Louis

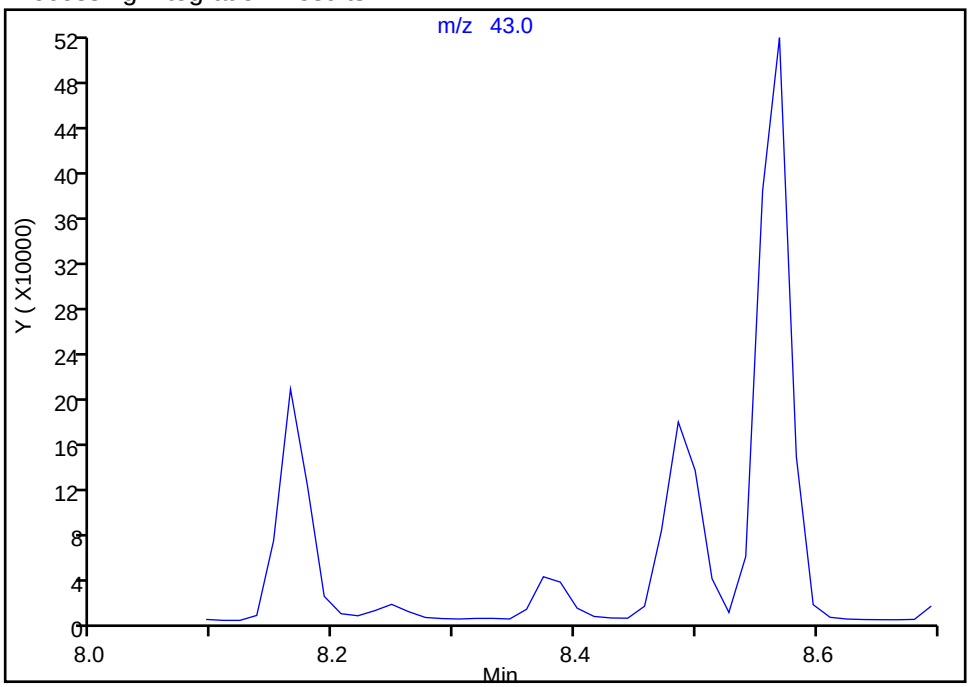
Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LLCS4870.D
Injection Date: 17-Jun-2019 11:59:30 Instrument ID: VMSL
Lims ID: LCSD
Client ID:
Operator ID: KA ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

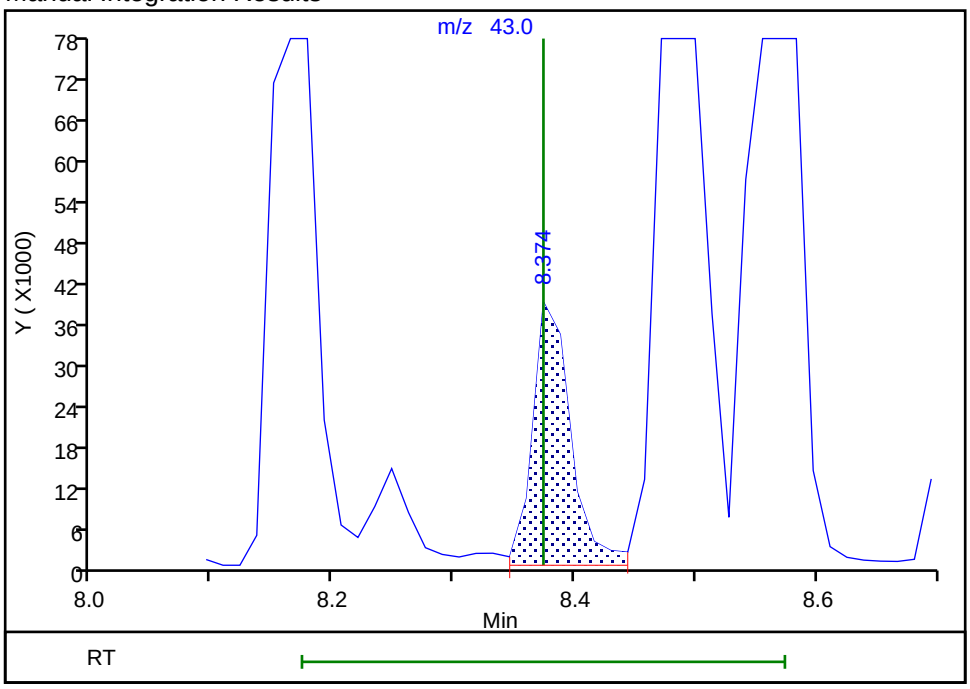
Not Detected
Expected RT: 8.37

Processing Integration Results



Manual Integration Results

RT: 8.37
Area: 85303
Amount: 54.951479
Amount Units: ug/l



Reviewer: aguk, 17-Jun-2019 14:32:52
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2011MS MS Lab Sample ID: 490-175605-1 MS

Matrix: Water Lab File ID: LSMP4874.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 12:40

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 13:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	49.9		5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	49.5		5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	51.1		5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	50.1		5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	50.7		5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	52.7		5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	52.3		5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	53.0		5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	50.4		5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	52.8		5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	52.0		10	5.0	3.3
106-93-4	1,2-Dibromoethane	51.1		5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	49.8		5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	52.0		5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	53.6		5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	51.5		5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	51.7		5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	82.2		20	5.0	2.4
95-49-8	2-Chlorotoluene	50.9		5.0	2.5	0.86
591-78-6	2-Hexanone	48.0		20	5.0	4.6
106-43-4	4-Chlorotoluene	52.5		5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	54.3		20	10	4.6
67-64-1	Acetone	57.8		20	10	3.2
71-43-2	Benzene	50.5		5.0	2.5	0.33
108-86-1	Bromobenzene	51.1		5.0	2.5	0.81
74-97-5	Bromochloromethane	49.9		5.0	2.5	0.77
75-27-4	Bromodichloromethane	50.7		5.0	2.5	0.72
75-25-2	Bromoform	52.6		5.0	2.5	2.1
74-83-9	Bromomethane	48.6		10	5.0	2.7
75-15-0	Carbon disulfide	52.2		5.0	2.5	0.77
56-23-5	Carbon tetrachloride	48.9		5.0	2.5	1.0
108-90-7	Chlorobenzene	50.1		5.0	2.5	0.59
75-00-3	Chloroethane	18.2	J1	10	2.5	1.0
67-66-3	Chloroform	49.8		5.0	2.5	0.77
74-87-3	Chloromethane	51.2		10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	54.2		5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2011MS MS Lab Sample ID: 490-175605-1 MS

Matrix: Water Lab File ID: LSMP4874.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 12:40

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 13:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	52.9		5.0	5.0	2.6
124-48-1	Dibromochloromethane	51.4		5.0	2.5	0.97
74-95-3	Dibromomethane	50.6		5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	56.1		10	2.5	1.6
100-41-4	Ethylbenzene	51.1		5.0	2.5	0.44
98-82-8	Isopropylbenzene	53.2		5.0	2.5	1.9
179601-23-1	m,p-Xylenes	52.6		5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	52.3		5.0	2.5	0.79
75-09-2	Methylene Chloride	51.4		7.5	5.0	1.7
91-20-3	Naphthalene	54.1		5.0	5.0	3.0
104-51-8	n-Butylbenzene	53.1		5.0	2.5	1.2
103-65-1	N-Propylbenzene	53.1		5.0	2.5	1.4
95-47-6	o-Xylene	53.6		5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	52.7		5.0	2.5	1.3
135-98-8	sec-Butylbenzene	51.7		5.0	2.5	1.1
100-42-5	Styrene	54.8		5.0	2.5	2.0
98-06-6	tert-Butylbenzene	52.0		5.0	2.5	1.1
127-18-4	Tetrachloroethene	50.5		5.0	2.5	0.60
108-88-3	Toluene	52.0		5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	51.7		5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	54.4		5.0	2.5	2.1
79-01-6	Trichloroethene	48.9		5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	40.1		5.0	2.5	1.6
75-01-4	Vinyl chloride	52.8		5.0	2.0	1.0
1330-20-7	Xylenes (total)	106		10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		81-118
460-00-4	4-Bromofluorobenzene (Surr)	109		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	104		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4874.D
Lims ID: 490-175605-A-1 MS
Client ID: 6MW2011MS
Sample Type: MS
Inject. Date: 17-Jun-2019 13:40:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-009
Misc. Info.: 490-175605-a-1 ms
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:44 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 14:52:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	570866	50.0	56.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	96	158924	50.0	36.2	M
3 Chloromethane	50	3.499	3.500	-0.001	99	635189	50.0	51.2	
4 Vinyl chloride	62	3.667	3.667	0.000	98	599696	50.0	52.8	
122 Butadiene	39	3.695	3.695	0.000	91	576539	50.0	54.8	
5 Bromomethane	94	4.254	4.268	-0.014	91	239533	50.0	48.6	
6 Chloroethane	64	4.463	4.477	-0.014	99	114455	50.0	18.2	
7 Trichlorofluoromethane	101	4.673	4.715	-0.042	98	547800	50.0	40.1	
123 Dichlorofluoromethane	67	4.812	4.826	-0.014	97	788079	50.0	50.8	
8 Ethyl ether	74	5.245	5.231	0.014	92	187652	50.0	55.2	
11 Ethanol	45	5.511	5.455	0.056	98	104599	2000.0	2849.9	
9 1,1-Dichloroethene	96	5.525	5.525	0.000	94	372563	50.0	52.7	
10 Carbon disulfide	76	5.566	5.567	-0.001	99	1478474	50.0	52.2	
12 1,1,2-Trichloro-1,2,2-trif	151	5.566	5.581	-0.015	96	296260	50.0	50.4	
13 Iodomethane	142	5.748	5.748	0.000	99	249908	50.0	46.8	
S 26 1,2-Dichloroethene, Total	96				0			105.9	
14 Acrolein	56	6.027	6.014	0.013	99	115770	250.0	384.5	
15 3-Chloro-1-propene	39	6.181	6.181	0.000	93	483038	50.0	52.1	
16 Isopropyl alcohol	45	6.237	6.209	0.028	98	118261	500.0	534.5	
17 Methylene Chloride	84	6.321	6.321	0.000	97	363988	50.0	51.4	
18 Acetone	43	6.404	6.391	0.013	100	61202	50.0	57.8	
19 trans-1,2-Dichloroethene	96	6.516	6.516	0.000	96	417322	50.0	51.7	
20 Methyl acetate	74	6.544	6.530	0.014	98	63930	250.0	285.4	
21 Hexane	86	6.600	6.600	0.000	90	153078	50.0	54.5	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	93	781416	50.0	52.3	
23 2-Methyl-2-propanol	59	6.768	6.740	0.028	98	198323	500.0	553.9	
24 Acetonitrile	41	6.977	6.963	0.014	99	214579	500.0	553.4	
25 Isopropyl ether	45	7.061	7.061	0.000	94	1241907	50.0	54.8	
27 2-Chloro-1,3-butadiene	53	7.214	7.215	-0.001	92	712008	50.0	52.1	
28 1,1-Dichloroethane	63	7.242	7.243	-0.001	97	803217	50.0	50.7	
29 Acrylonitrile	53	7.312	7.312	0.000	100	686816	500.0	524.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.466	7.452	0.014	98	1071150	50.0	54.2	
31 Vinyl acetate	43	7.494	7.480	0.014	97	600637	50.0	60.3	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	422548	50.0	54.2	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	90	685598	50.0	51.7	
34 Cyclohexane	84	8.025	8.025	0.000	90	770185	50.0	52.6	
35 Chlorobromomethane	128	8.025	8.025	0.000	51	122576	50.0	49.9	
36 Chloroform	83	8.080	8.081	-0.001	93	675025	50.0	49.8	
39 Ethyl acetate	45	8.164	8.164	0.000	99	57747	100.0	109.8	
37 Carbon tetrachloride	117	8.234	8.234	0.000	97	521437	50.0	48.9	
38 Tetrahydrofuran	71	8.248	8.248	0.000	90	45345	100.0	117.0	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	292326	50.0	50.3	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	98	644698	50.0	49.5	
43 2-Butanone (MEK)	43	8.388	8.374	0.014	98	128571	50.0	82.2	
42 1,1-Dichloropropene	75	8.416	8.416	0.000	97	653210	50.0	52.3	
125 Isooctane	57	8.485	8.486	-0.001	96	2094428	50.0	51.2	
117 n-Heptane	43	8.569	8.555	0.014	94	916070	50.0	53.0	
44 Benzene	78	8.667	8.653	0.014	96	1763152	50.0	50.5	
45 Propionitrile	54	8.695	8.681	0.014	94	272345	500.0	518.4	
46 Methacrylonitrile	41	8.709	8.695	0.014	94	1314424	500.0	514.8	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	98	872310	50.0	52.2	
50 Isobutyl alcohol	42	8.807	8.779	0.028	94	129853	1250.0	1310.6	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	340153	50.0	50.0	
49 1,2-Dichloroethane	62	8.863	8.849	0.013	98	399782	50.0	49.8	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1557361	50.0	50.0	
118 1,4-Difluorobenzene	114		9.130					ND	
52 Methylcyclohexane	55	9.198	9.184	0.014	91	757104	50.0	51.6	
53 Trichloroethene	95	9.198	9.198	0.000	59	427135	50.0	48.9	
54 n-Butanol	56	9.435	9.421	0.014	89	125269	1250.0	1116.0	
55 Dibromomethane	93	9.603	9.603	0.000	95	143519	50.0	50.6	
124 Ethyl acrylate	55	9.631	9.631	0.000	99	250775	50.0	48.7	
56 1,2-Dichloropropane	63	9.700	9.687	0.013	95	407681	50.0	52.0	
57 Dichlorobromomethane	83	9.728	9.729	-0.001	99	435056	50.0	50.7	
58 Methyl methacrylate	69	9.826	9.812	0.014	92	295033	100.0	96.9	
59 1,4-Dioxane	88	9.910	9.896	0.014	98	37194	1000.0	1018.3	
60 2-Chloroethyl vinyl ether	63	10.203	10.203	0.000	89	10152	50.0	6.00	
128 2-Pentanone	43		10.253					ND	
61 cis-1,3-Dichloropropene	75	10.301	10.287	0.014	95	556300	50.0	52.9	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	1448685	50.0	51.8	
63 Toluene	92	10.511	10.511	0.000	98	1078989	50.0	52.0	
64 2-Nitropropane	43	10.734	10.734	0.000	99	100801	100.0	103.1	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	96	182478	50.0	54.3	
65 Tetrachloroethene	164	10.874	10.860	0.014	96	343312	50.0	50.5	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	94	470128	50.0	54.4	
69 Ethyl methacrylate	69	10.957	10.944	0.013	90	299232	50.0	47.3	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	92	189164	50.0	50.1	
70 Chlorodibromomethane	129	11.209	11.209	0.000	91	214157	50.0	51.4	
71 1,3-Dichloropropane	76	11.293	11.279	0.014	92	433876	50.0	51.5	
119 n-Butyl acetate	43	11.432	11.432	0.000	98	312168	50.0	47.5	
72 Ethylene Dibromide	107	11.460	11.446	0.014	97	190580	50.0	51.1	
74 2-Hexanone	43	11.558	11.558	0.000	97	118549	50.0	48.0	
S 73 1,3-Dichloropropene, Total	75				0			107.3	
75 1-Chlorohexane	91	11.823	11.824	-0.001	98	671038	50.0	53.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	95	963383	50.0	50.0	
78 Ethylbenzene	91	11.893	11.879	0.014	97	2072126	50.0	51.1	
77 Chlorobenzene	112	11.907	11.893	0.014	93	989487	50.0	50.1	
79 1,1,1,2-Tetrachloroethane	131	11.949	11.935	0.014	94	283948	50.0	49.9	
80 m-Xylene & p-Xylene	106	12.019	12.005	0.014	100	766016	50.0	52.6	
82 o-Xylene	106	12.424	12.410	0.014	98	681621	50.0	53.6	
83 Styrene	104	12.466	12.466	0.000	95	1035828	50.0	54.8	
84 Bromoform	173	12.536	12.536	0.000	97	132701	50.0	52.6	
85 Isopropylbenzene	105	12.689	12.689	0.000	97	1953882	50.0	53.2	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.013	94	501752	50.0	54.4	
88 N-Propylbenzene	91	13.080	13.080	0.000	99	2486426	50.0	53.1	
87 Bromobenzene	156	13.122	13.108	0.014	94	367919	50.0	51.1	
89 1,1,2,2-Tetrachloroethane	83	13.150	13.136	0.014	94	241512	50.0	51.1	
91 1,3,5-Trimethylbenzene	105	13.248	13.234	0.014	94	1567422	50.0	53.6	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	1546592	50.0	50.9	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	84	67570	50.0	50.4	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	91	78005	50.0	51.6	
94 Cyclohexanone	55	13.388	13.374	0.014	92	65976	500.0	573.9	
95 4-Chlorotoluene	91	13.415	13.416	-0.001	98	1404322	50.0	52.5	
96 tert-Butylbenzene	119	13.569	13.555	0.014	93	1341985	50.0	52.0	
81 Pentachloroethane	167		13.557					ND	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	97	1533964	50.0	52.8	
98 sec-Butylbenzene	105	13.737	13.723	0.014	95	2160205	50.0	51.7	
99 4-Isopropyltoluene	119	13.848	13.849	-0.001	97	1739387	50.0	52.7	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	96	742377	50.0	50.9	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	97	1441157	50.0	51.1	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	71	454603	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	90	734936	50.0	50.7	
103 n-Butylbenzene	134	14.267	14.268	-0.001	98	411533	50.0	53.1	
121 Benzyl chloride	126	14.295	14.296	-0.001	98	90176	50.0	56.0	
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	94	630613	50.0	50.2	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	90	174850	50.0	49.0	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	69	36352	50.0	52.0	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	96	612782	50.0	52.7	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	94	405582	50.0	52.3	
109 1,2,4-Trichlorobenzene	180	15.943	15.944	-0.001	94	461096	50.0	54.1	
110 Naphthalene	128	16.307	16.307	-0.001	98	517348	50.0	54.1	
S 112 Xylenes, Total	106				0			106.2	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	94	366951	50.0	53.0	
127 2-Methylpentane	1		0.000					ND	
S 113 Trihalomethanes, Total	1				0			204.4	
126 C6-C12	1		0.000					ND	

QC Flag Legend

Review Flags

M - Manually Integrated

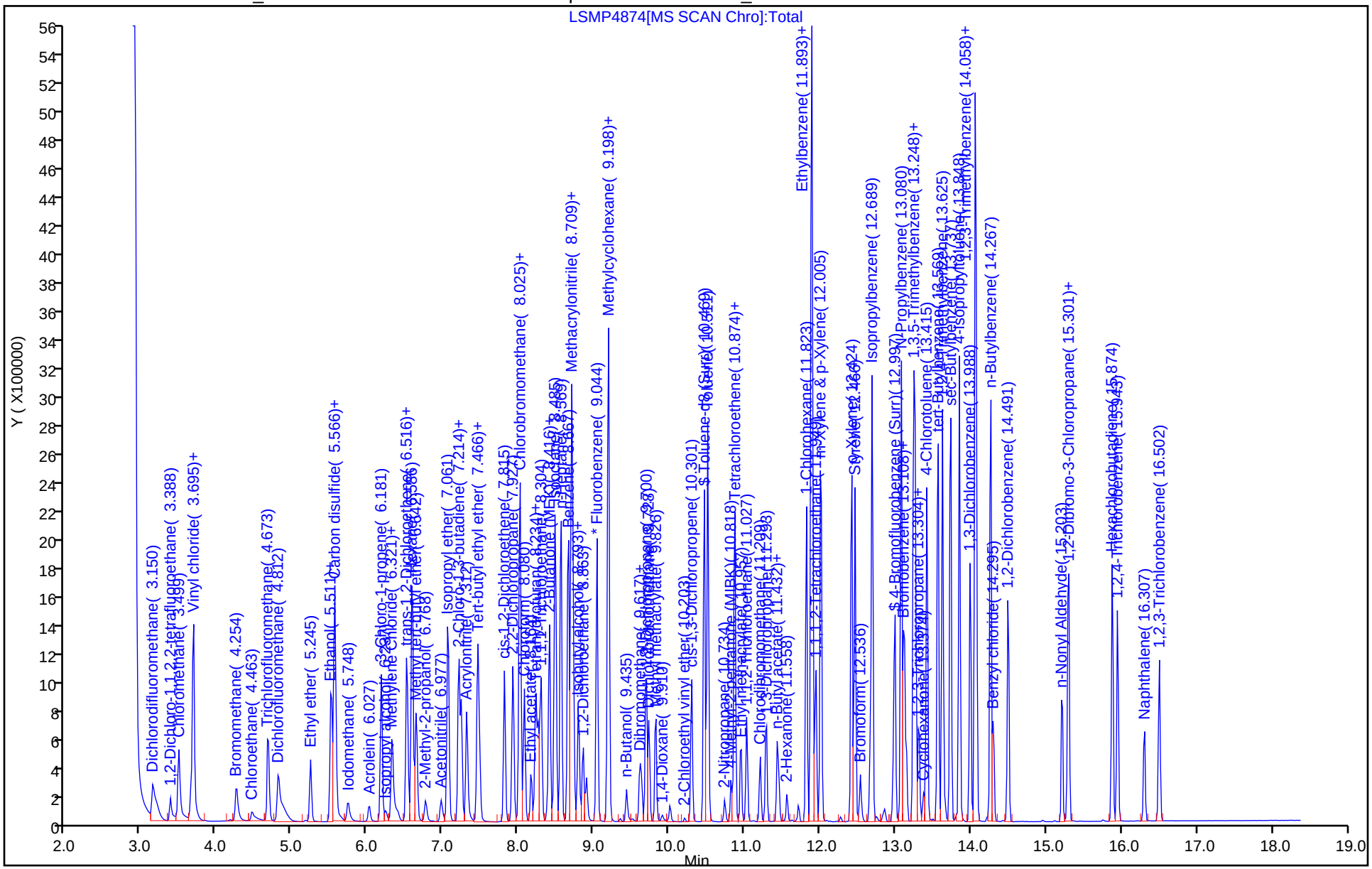
Reagents:

8260 NewWkMix_00331	Amount Added:	10.00	Units: uL	
I.S. Working_00177	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:53 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4874.D				
Injection Date:	17-Jun-2019 13:40:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	490-175605-A-1 MS			Worklist Smp#:	9
Client ID:	6MW2011MS				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4874.D
Lims ID: 490-175605-A-1 MS
Client ID: 6MW2011MS
Sample Type: MS
Inject. Date: 17-Jun-2019 13:40:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-009
Misc. Info.: 490-175605-a-1 ms
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:44 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 14:52:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.3	100.51
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.0	100.02
$ 62 Toluene-d8 (Surr)	50.0	51.8	103.55
$ 86 4-Bromofluorobenzene (Surr)	50.0	54.4	108.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2011MSD MSD Lab Sample ID: 490-175605-1 MSD

Matrix: Water Lab File ID: LSMP4875.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 12:40

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 14:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	49.9		5.0	2.5	0.96
71-55-6	1,1,1-Trichloroethane	49.4		5.0	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	51.4		5.0	2.5	2.1
79-00-5	1,1,2-Trichloroethane	49.8		5.0	2.5	0.77
75-34-3	1,1-Dichloroethane	50.7		5.0	2.5	0.56
75-35-4	1,1-Dichloroethene	52.6		5.0	2.5	0.72
563-58-6	1,1-Dichloropropene	52.9		5.0	2.5	0.66
87-61-6	1,2,3-Trichlorobenzene	53.9		5.0	2.5	2.5
96-18-4	1,2,3-Trichloropropane	49.2		5.0	2.5	1.9
95-63-6	1,2,4-Trimethylbenzene	53.3		5.0	2.5	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	51.9		10	5.0	3.3
106-93-4	1,2-Dibromoethane	50.9		5.0	2.5	0.61
107-06-2	1,2-Dichloroethane	49.4		5.0	2.5	1.2
78-87-5	1,2-Dichloropropane	51.4		5.0	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	54.1		5.0	2.5	1.8
142-28-9	1,3-Dichloropropane	51.0		5.0	2.5	0.66
594-20-7	2,2-Dichloropropane	51.5		5.0	2.5	0.85
78-93-3	2-Butanone (MEK)	78.8		20	5.0	2.4
95-49-8	2-Chlorotoluene	51.2		5.0	2.5	0.86
591-78-6	2-Hexanone	47.6		20	5.0	4.6
106-43-4	4-Chlorotoluene	52.6		5.0	2.5	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	54.0		20	10	4.6
67-64-1	Acetone	56.5		20	10	3.2
71-43-2	Benzene	50.5		5.0	2.5	0.33
108-86-1	Bromobenzene	51.6		5.0	2.5	0.81
74-97-5	Bromochloromethane	49.2		5.0	2.5	0.77
75-27-4	Bromodichloromethane	50.7		5.0	2.5	0.72
75-25-2	Bromoform	52.1		5.0	2.5	2.1
74-83-9	Bromomethane	50.0		10	5.0	2.7
75-15-0	Carbon disulfide	52.4		5.0	2.5	0.77
56-23-5	Carbon tetrachloride	48.6		5.0	2.5	1.0
108-90-7	Chlorobenzene	50.2		5.0	2.5	0.59
75-00-3	Chloroethane	18.8	J1	10	2.5	1.0
67-66-3	Chloroform	49.5		5.0	2.5	0.77
74-87-3	Chloromethane	52.3		10	2.5	0.85
156-59-2	cis-1,2-Dichloroethene	54.1		5.0	2.5	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Client Sample ID: 6MW2011MSD MSD Lab Sample ID: 490-175605-1 MSD

Matrix: Water Lab File ID: LSMP4875.D

Analysis Method: 8260C DOD Date Collected: 06/05/2019 12:40

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2019 14:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS40 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 431879 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	52.2		5.0	5.0	2.6
124-48-1	Dibromochloromethane	51.0		5.0	2.5	0.97
74-95-3	Dibromomethane	49.5		5.0	2.5	0.78
75-71-8	Dichlorodifluoromethane	56.0		10	2.5	1.6
100-41-4	Ethylbenzene	51.3		5.0	2.5	0.44
98-82-8	Isopropylbenzene	53.8		5.0	2.5	1.9
179601-23-1	m,p-Xylenes	52.7		5.0	2.5	0.52
1634-04-4	Methyl tert-butyl ether	51.8		5.0	2.5	0.79
75-09-2	Methylene Chloride	51.5		7.5	5.0	1.7
91-20-3	Naphthalene	55.5		5.0	5.0	3.0
104-51-8	n-Butylbenzene	53.7		5.0	2.5	1.2
103-65-1	N-Propylbenzene	53.5		5.0	2.5	1.4
95-47-6	o-Xylene	54.0		5.0	2.5	0.85
99-87-6	p-Isopropyltoluene	53.1		5.0	2.5	1.3
135-98-8	sec-Butylbenzene	52.2		5.0	2.5	1.1
100-42-5	Styrene	54.9		5.0	2.5	2.0
98-06-6	tert-Butylbenzene	52.9		5.0	2.5	1.1
127-18-4	Tetrachloroethene	50.8		5.0	2.5	0.60
108-88-3	Toluene	52.1		5.0	5.0	2.4
156-60-5	trans-1,2-Dichloroethene	51.9		5.0	2.5	0.65
10061-02-6	trans-1,3-Dichloropropene	53.2		5.0	2.5	2.1
79-01-6	Trichloroethene	48.7		5.0	2.5	0.66
75-69-4	Trichlorofluoromethane	44.3		5.0	2.5	1.6
75-01-4	Vinyl chloride	54.2		5.0	2.0	1.0
1330-20-7	Xylenes (total)	107		10	5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		81-118
460-00-4	4-Bromofluorobenzene (Surr)	107		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	103		89-112

Eurofins TestAmerica, St. Louis
Target Compound Quantitation Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4875.D
Lims ID: 490-175605-A-1 MSD
Client ID: 6MW2011MSD
Sample Type: MSD
Inject. Date: 17-Jun-2019 14:05:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-010
Misc. Info.: 490-175605-a-1 msd
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:44 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 15:39:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.150	3.150	0.000	99	562547	50.0	56.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.388	3.388	0.000	97	158623	50.0	36.6	M
3 Chloromethane	50	3.499	3.500	-0.001	99	639712	50.0	52.3	
4 Vinyl chloride	62	3.667	3.667	0.000	98	607649	50.0	54.2	
122 Butadiene	39	3.695	3.695	0.000	91	564021	50.0	54.2	
5 Bromomethane	94	4.268	4.268	0.000	91	243699	50.0	50.0	
6 Chloroethane	64	4.463	4.477	-0.014	99	116588	50.0	18.8	
7 Trichlorofluoromethane	101	4.687	4.715	-0.028	98	598763	50.0	44.3	
123 Dichlorofluoromethane	67	4.826	4.826	0.000	97	781939	50.0	51.0	
8 Ethyl ether	74	5.245	5.231	0.014	92	182336	50.0	54.3	
11 Ethanol	45	5.497	5.455	0.042	99	99973	2000.0	2758.1	
9 1,1-Dichloroethene	96	5.525	5.525	0.000	94	367099	50.0	52.6	
10 Carbon disulfide	76	5.566	5.567	-0.001	99	1463102	50.0	52.4	
12 1,1,2-Trichloro-1,2,2-trif	151	5.566	5.581	-0.015	94	292954	50.0	50.5	
13 Iodomethane	142	5.748	5.748	0.000	99	252801	50.0	47.8	
S 26 1,2-Dichloroethene, Total	96				0			106.0	
14 Acrolein	56	6.013	6.014	-0.001	100	113476	250.0	381.6	
15 3-Chloro-1-propene	39	6.181	6.181	0.000	93	482973	50.0	52.8	
16 Isopropyl alcohol	45	6.237	6.209	0.028	97	119397	500.0	546.5	
17 Methylene Chloride	84	6.321	6.321	0.000	96	360378	50.0	51.5	
18 Acetone	43	6.404	6.391	0.013	100	59082	50.0	56.5	
19 trans-1,2-Dichloroethene	96	6.516	6.516	0.000	96	413213	50.0	51.9	
20 Methyl acetate	74	6.530	6.530	0.000	98	63004	250.0	284.8	
21 Hexane	86	6.600	6.600	0.000	90	151117	50.0	54.4	
22 Methyl tert-butyl ether	73	6.642	6.642	0.000	93	763579	50.0	51.8	
23 2-Methyl-2-propanol	59	6.768	6.740	0.028	98	189905	500.0	537.1	
24 Acetonitrile	41	6.977	6.963	0.014	99	200094	500.0	522.6	
25 Isopropyl ether	45	7.061	7.061	0.000	94	1214144	50.0	54.3	
27 2-Chloro-1,3-butadiene	53	7.214	7.215	-0.001	92	704313	50.0	52.2	
28 1,1-Dichloroethane	63	7.242	7.243	-0.001	97	793649	50.0	50.7	
29 Acrylonitrile	53	7.312	7.312	0.000	99	668116	500.0	517.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.466	7.452	0.014	98	1044663	50.0	53.5	
31 Vinyl acetate	43	7.494	7.480	0.014	97	584763	50.0	59.5	
32 cis-1,2-Dichloroethene	96	7.815	7.815	0.000	82	416964	50.0	54.1	
33 2,2-Dichloropropane	77	7.927	7.927	0.000	90	674311	50.0	51.5	
34 Cyclohexane	84	8.025	8.025	0.000	90	761988	50.0	52.7	
35 Chlorobromomethane	128	8.025	8.025	0.000	51	119344	50.0	49.2	
36 Chloroform	83	8.080	8.081	-0.001	94	662497	50.0	49.5	
39 Ethyl acetate	45	8.164	8.164	0.000	99	55506	100.0	106.8	
37 Carbon tetrachloride	117	8.234	8.234	0.000	97	511936	50.0	48.6	
38 Tetrahydrofuran	71	8.248	8.248	0.000	90	42990	100.0	112.3	
$ 41 Dibromofluoromethane (Surr	113	8.262	8.262	0.000	94	288295	50.0	50.2	
40 1,1,1-Trichloroethane	97	8.304	8.304	0.000	98	636406	50.0	49.4	
43 2-Butanone (MEK)	43	8.388	8.374	0.014	97	121745	50.0	78.8	
42 1,1-Dichloropropene	75	8.416	8.416	0.000	98	652645	50.0	52.9	
125 Isooctane	57	8.485	8.486	-0.001	96	2057908	50.0	51.0	
117 n-Heptane	43	8.569	8.555	0.014	93	900425	50.0	52.8	
44 Benzene	78	8.667	8.653	0.014	96	1742419	50.0	50.5	
45 Propionitrile	54	8.695	8.681	0.014	93	263989	500.0	508.8	
46 Methacrylonitrile	41	8.709	8.695	0.014	93	1264200	500.0	501.4	
48 Tert-amyl methyl ether	73	8.723	8.723	0.000	98	844366	50.0	51.2	
50 Isobutyl alcohol	42	8.793	8.779	0.014	93	124239	1250.0	1269.7	
$ 47 1,2-Dichloroethane-d4 (Sur	65	8.793	8.793	0.000	98	329714	50.0	49.1	
49 1,2-Dichloroethane	62	8.862	8.849	0.013	97	391369	50.0	49.4	
* 51 Fluorobenzene	96	9.044	9.044	0.000	98	1538011	50.0	50.0	
118 1,4-Difluorobenzene	114		9.130					ND	
52 Methylcyclohexane	55	9.198	9.184	0.014	91	749632	50.0	51.8	
53 Trichloroethene	95	9.198	9.198	0.000	58	419934	50.0	48.7	
54 n-Butanol	56	9.435	9.421	0.014	89	119862	1250.0	1083.2	
55 Dibromomethane	93	9.603	9.603	0.000	96	138857	50.0	49.5	
124 Ethyl acrylate	55	9.631	9.631	0.000	99	244475	50.0	48.1	
56 1,2-Dichloropropane	63	9.700	9.687	0.013	95	397365	50.0	51.4	
57 Dichlorobromomethane	83	9.728	9.729	-0.001	98	430167	50.0	50.7	
58 Methyl methacrylate	69	9.826	9.812	0.014	92	289882	100.0	96.5	
59 1,4-Dioxane	88	9.910	9.896	0.014	98	36347	1000.0	1008.1	
60 2-Chloroethyl vinyl ether	63		10.203				ND	ND	
128 2-Pentanone	43		10.253					ND	
61 cis-1,3-Dichloropropene	75	10.301	10.287	0.014	95	541235	50.0	52.2	
$ 62 Toluene-d8 (Surr)	98	10.469	10.469	0.000	93	1420068	50.0	51.3	
63 Toluene	92	10.511	10.511	-0.001	98	1067098	50.0	52.1	
64 2-Nitropropane	43	10.734	10.734	0.000	99	98668	100.0	102.3	
66 4-Methyl-2-pentanone (MIBK	43	10.818	10.818	0.000	98	179319	50.0	54.0	
65 Tetrachloroethene	164	10.874	10.860	0.014	96	341452	50.0	50.8	
67 trans-1,3-Dichloropropene	75	10.874	10.874	0.000	98	454835	50.0	53.2	
69 Ethyl methacrylate	69	10.957	10.944	0.013	90	293290	50.0	46.9	
68 1,1,2-Trichloroethane	83	11.027	11.027	0.000	92	185790	50.0	49.8	
70 Chlorodibromomethane	129	11.209	11.209	0.000	91	210154	50.0	51.0	
71 1,3-Dichloropropane	76	11.293	11.279	0.014	92	424519	50.0	51.0	
119 n-Butyl acetate	43	11.432	11.432	0.000	98	302811	50.0	46.7	
72 Ethylene Dibromide	107	11.446	11.446	0.000	97	187569	50.0	50.9	
74 2-Hexanone	43	11.558	11.558	0.000	96	116109	50.0	47.6	
S 73 1,3-Dichloropropene, Total	75				0			105.4	
75 1-Chlorohexane	91	11.823	11.824	-0.001	98	663642	50.0	53.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.879	11.879	0.000	95	952178	50.0	50.0	
78 Ethylbenzene	91	11.893	11.879	0.014	97	2054332	50.0	51.3	
77 Chlorobenzene	112	11.907	11.893	0.014	93	979441	50.0	50.2	
79 1,1,1,2-Tetrachloroethane	131	11.949	11.935	0.014	94	280858	50.0	49.9	
80 m-Xylene & p-Xylene	106	12.019	12.005	0.014	100	758521	50.0	52.7	
82 o-Xylene	106	12.424	12.410	0.014	98	678219	50.0	54.0	
83 Styrene	104	12.466	12.466	0.000	94	1025630	50.0	54.9	
84 Bromoform	173	12.536	12.536	0.000	96	129467	50.0	52.1	
85 Isopropylbenzene	105	12.689	12.689	0.000	97	1942710	50.0	53.8	
$ 86 4-Bromofluorobenzene (Surr	95	12.997	12.983	0.013	93	484060	50.0	53.4	
88 N-Propylbenzene	91	13.080	13.080	0.000	99	2461698	50.0	53.5	
87 Bromobenzene	156	13.122	13.108	0.014	93	366136	50.0	51.6	
89 1,1,2,2-Tetrachloroethane	83	13.150	13.136	0.014	95	238990	50.0	51.4	
91 1,3,5-Trimethylbenzene	105	13.248	13.234	0.014	94	1558387	50.0	54.1	
90 2-Chlorotoluene	91	13.262	13.262	0.000	94	1529543	50.0	51.2	
92 1,2,3-Trichloropropane	110	13.304	13.304	0.000	85	64934	50.0	49.2	
93 trans-1,4-Dichloro-2-buten	53	13.318	13.318	0.000	92	77918	50.0	52.3	
94 Cyclohexanone	55	13.388	13.374	0.014	93	66358	500.0	585.1	
95 4-Chlorotoluene	91	13.415	13.416	-0.001	98	1384022	50.0	52.6	
96 tert-Butylbenzene	119	13.569	13.555	0.014	93	1345367	50.0	52.9	
81 Pentachloroethane	167		13.557					ND	
97 1,2,4-Trimethylbenzene	105	13.625	13.625	0.000	97	1524780	50.0	53.3	
98 sec-Butylbenzene	105	13.737	13.723	0.014	95	2149334	50.0	52.2	
99 4-Isopropyltoluene	119	13.848	13.849	-0.001	97	1725023	50.0	53.1	
100 1,3-Dichlorobenzene	146	13.988	13.988	0.000	96	730847	50.0	50.9	
120 1,2,3-Trimethylbenzene	105	14.058	14.058	0.000	97	1432020	50.0	51.6	
* 101 1,4-Dichlorobenzene-d4	152	14.058	14.058	0.000	71	447382	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.072	14.072	0.000	90	724448	50.0	50.7	
103 n-Butylbenzene	134	14.267	14.268	-0.001	98	409836	50.0	53.7	
121 Benzyl chloride	126	14.295	14.296	-0.001	98	87048	50.0	54.9	
104 1,2-Dichlorobenzene	146	14.491	14.491	0.000	95	628308	50.0	50.8	
106 n-Nonyl Aldehyde	57	15.203	15.203	0.000	89	176746	50.0	50.2	
105 1,2-Dibromo-3-Chloropropan	157	15.287	15.287	0.000	68	35747	50.0	51.9	
107 1,3,5-Trichlorobenzene	180	15.301	15.301	0.000	96	603632	50.0	52.8	
108 Hexachlorobutadiene	225	15.874	15.874	0.000	94	404860	50.0	53.0	
109 1,2,4-Trichlorobenzene	180	15.943	15.944	-0.001	94	460627	50.0	54.9	
110 Naphthalene	128	16.306	16.307	-0.001	98	522336	50.0	55.5	
S 112 Xylenes, Total	106				0			106.6	
111 1,2,3-Trichlorobenzene	180	16.502	16.502	0.000	94	367562	50.0	53.9	
127 2-Methylpentane	1		0.000					ND	
S 113 Trihalomethanes, Total	1				0			203.3	
126 C6-C12	1		0.000					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

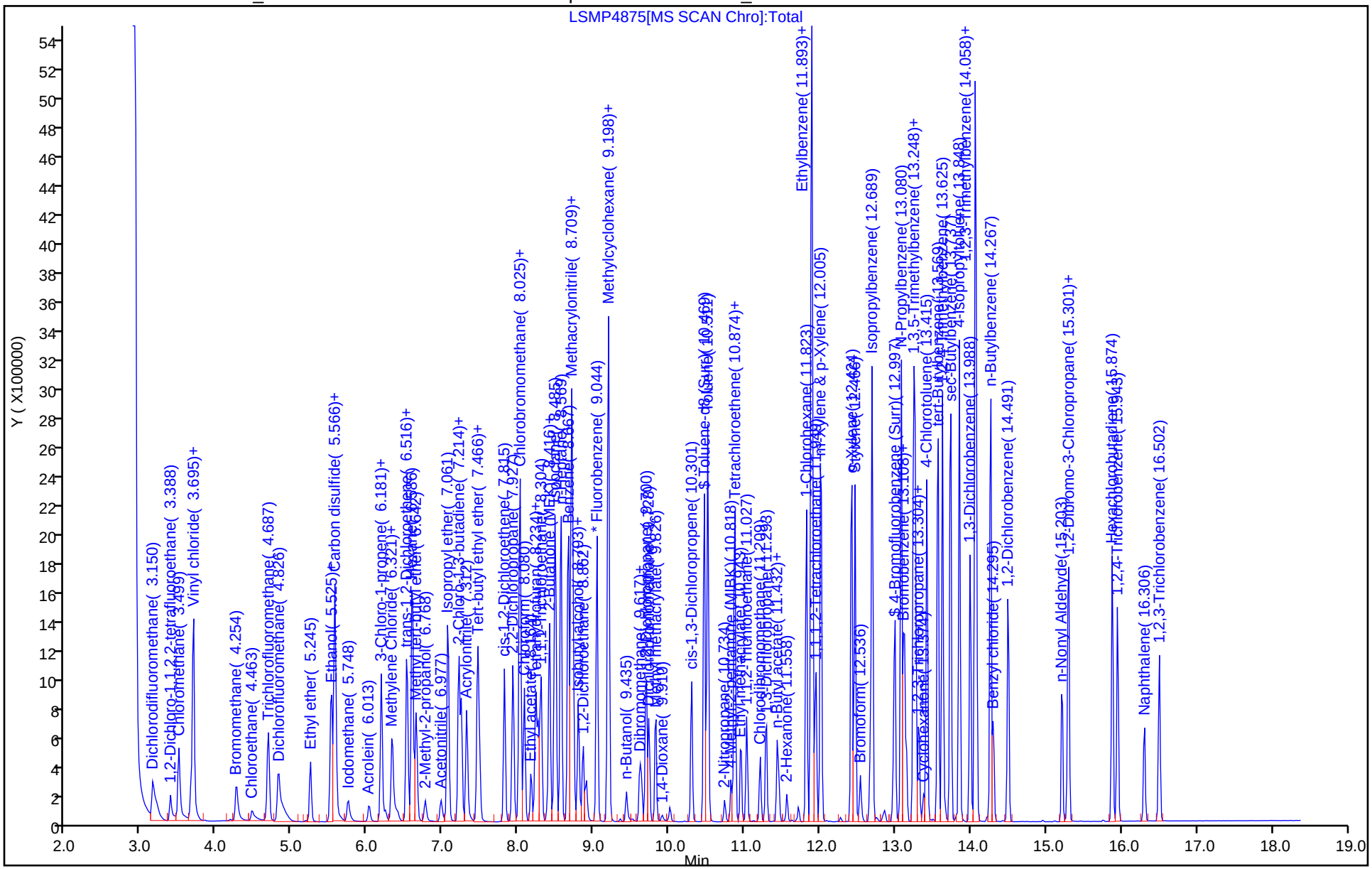
Reagents:

8260 NewWkMix_00331	Amount Added:	10.00	Units: uL	
I.S. Working_00177	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00099	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 20-Jun-2019 11:43:55 Chrom Revision: 2.3 18-Jun-2019 21:44:00

Eurofins TestAmerica, St. Louis

Data File:	\\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4875.D				
Injection Date:	17-Jun-2019 14:05:30	Instrument ID:	VMSL	Operator ID:	KA
Lims ID:	490-175605-A-1 MSD			Worklist Smp#:	10
Client ID:	6MW2011MSD				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	5mL-8260_VMSL	Limit Group:	MSV-8260_DoD		



Eurofins TestAmerica, St. Louis
Recovery Report

Data File: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\LSMP4875.D
Lims ID: 490-175605-A-1 MSD
Client ID: 6MW2011MSD
Sample Type: MSD
Inject. Date: 17-Jun-2019 14:05:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0015221-010
Misc. Info.: 490-175605-a-1 msd
Operator ID: KA Instrument ID: VMSL

Method: \\chromna\StLouis\ChromData\VMSL\20190617-15221.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 20-Jun-2019 11:43:44 Calib Date: 23-May-2019 14:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\StLouis\ChromData\VMSL\20190523-15160.b\LICL4777.D

Column 1 : Det: MS SCAN
Process Host: CTX0305

First Level Reviewer: aguk Date: 17-Jun-2019 15:39:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.2	100.37
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	49.1	98.17
$ 62 Toluene-d8 (Surr)	50.0	51.3	102.70
$ 86 4-Bromofluorobenzene (Surr)	50.0	53.4	106.74

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Instrument ID: VMSL Start Date: 05/23/2019 10:42

Analysis Batch Number: 429557 End Date: 05/23/2019 15:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-429557/2		05/23/2019 10:42	1	LBFB4768.D	RTX-VMS40 0.18(mm)
IC 160-429557/4		05/23/2019 11:32	1	LICL4770.D	RTX-VMS40 0.18(mm)
IC 160-429557/5		05/23/2019 11:57	1	LICL4771.D	RTX-VMS40 0.18(mm)
IC 160-429557/6		05/23/2019 12:22	1	LICL4772.D	RTX-VMS40 0.18(mm)
IC 160-429557/7		05/23/2019 12:46	1	LICL4773.D	RTX-VMS40 0.18(mm)
IC 160-429557/8		05/23/2019 13:11	1	LICL4774.D	RTX-VMS40 0.18(mm)
ICIS 160-429557/9		05/23/2019 13:36	1	LICL4775.D	RTX-VMS40 0.18(mm)
IC 160-429557/10		05/23/2019 14:01	1	LICL4776.D	RTX-VMS40 0.18(mm)
IC 160-429557/11		05/23/2019 14:26	1	LICL4777.D	RTX-VMS40 0.18(mm)
ICV 160-429557/14		05/23/2019 15:42	1	LICV4780.D	RTX-VMS40 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 490-175605-1

SDG No.:

Instrument ID: VMSL Start Date: 06/17/2019 10:40

Analysis Batch Number: 431879 End Date: 06/17/2019 18:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-431879/2		06/17/2019 10:40	1	LBFB4867.D	RTX-VMS40 0.18(mm)
CCV 160-431879/3		06/17/2019 11:09	1	LCCV4868.D	RTX-VMS40 0.18(mm)
LCS 160-431879/4		06/17/2019 11:34	1	LLCS4869.D	RTX-VMS40 0.18(mm)
LCSD 160-431879/5		06/17/2019 11:59	1	LLCS4870.D	RTX-VMS40 0.18(mm)
ZZZZZ		06/17/2019 12:24	1		RTX-VMS40 0.18(mm)
MB 160-431879/7		06/17/2019 12:49	1	LBLK4872.D	RTX-VMS40 0.18(mm)
490-175605-1		06/17/2019 13:15	1	LSMP4873.D	RTX-VMS40 0.18(mm)
490-175605-1 MS		06/17/2019 13:40	1	LSMP4874.D	RTX-VMS40 0.18(mm)
490-175605-1 MSD		06/17/2019 14:05	1	LSMP4875.D	RTX-VMS40 0.18(mm)
490-175605-2		06/17/2019 14:55	1	LSMP4877.D	RTX-VMS40 0.18(mm)
490-175605-3		06/17/2019 15:20	1	LSMP4878.D	RTX-VMS40 0.18(mm)
490-175605-4		06/17/2019 15:46	1	LSMP4879.D	RTX-VMS40 0.18(mm)
490-175605-5		06/17/2019 16:11	1	LSMP4880.D	RTX-VMS40 0.18(mm)
490-175605-6		06/17/2019 16:36	1	LSMP4881.D	RTX-VMS40 0.18(mm)
490-175605-7		06/17/2019 17:01	1	LSMP4882.D	RTX-VMS40 0.18(mm)
490-175605-8		06/17/2019 17:26	1	LSMP4883.D	RTX-VMS40 0.18(mm)
490-175605-9		06/17/2019 17:51	1	LSMP4884.D	RTX-VMS40 0.18(mm)
CCVC 160-431879/20		06/17/2019 18:17	1	LSMP4885.D	RTX-VMS40 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Loui Job No.: 490-175605-1

SDG No.:

Batch Number: 429557 Batch Start Date: 05/23/19 10:42 Batch Analyst: Agu, Kelli K

Batch Method: 8260C DOD Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 NewWkMix 00328	8260 Surr 25 00099	8260_Surr 00081	8260NewHiWrk 00298
BFB 160-429557/2		8260C DOD		2 uL	2 uL				
IC 160-429557/4		8260C DOD		5 mL	5 mL	0.2 uL	0.2 uL		
IC 160-429557/5		8260C DOD		5 mL	5 mL	0.5 uL	0.5 uL		
IC 160-429557/6		8260C DOD		5 mL	5 mL	1 uL	1 uL		
IC 160-429557/7		8260C DOD		5 mL	5 mL	2 uL	2 uL		
IC 160-429557/8		8260C DOD		5 mL	5 mL	4 uL	4 uL		
ICIS 160-429557/9		8260C DOD		5 mL	5 mL	10 uL	10 uL		
IC 160-429557/10		8260C DOD		5 mL	5 mL		20 uL		4 uL
IC 160-429557/11		8260C DOD		5 mL	5 mL			0.4 uL	8 uL
ICV 160-429557/14		8260C DOD		5 mL	5 mL		10 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260NewICVMix 00314	BFB 00095	I.S. Working 00177			
BFB 160-429557/2		8260C DOD			2 uL				
IC 160-429557/4		8260C DOD				10 uL			
IC 160-429557/5		8260C DOD				10 uL			
IC 160-429557/6		8260C DOD				10 uL			
IC 160-429557/7		8260C DOD				10 uL			
IC 160-429557/8		8260C DOD				10 uL			
ICIS 160-429557/9		8260C DOD				10 uL			
IC 160-429557/10		8260C DOD				10 uL			
IC 160-429557/11		8260C DOD				10 uL			
ICV 160-429557/14		8260C DOD		10 uL		10 uL			

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Loui Job No.: 490-175605-1

SDG No.:

Batch Number: 429557 Batch Start Date: 05/23/19 10:42 Batch Analyst: Agu, Kelli K

Batch Method: 8260C DOD Batch End Date:

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Loui Job No.: 490-175605-1

SDG No.:

Batch Number: 431879 Batch Start Date: 06/17/19 10:40 Batch Analyst: Agu, Kelli K

Batch Method: 8260C DOD Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 NewWkMix 00331	8260 Surr 25 00099	BFB 00095
BFB 160-431879/2		8260C DOD		2 uL	2 uL				2 uL
CCV 160-431879/3		8260C DOD		5 mL	5 mL		10 uL	10 uL	
LCS 160-431879/4		8260C DOD		5 mL	5 mL		10 uL	10 uL	
LCSD 160-431879/5		8260C DOD		5 mL	5 mL		10 uL	10 uL	
MB 160-431879/7		8260C DOD		5 mL	5 mL			10 uL	
490-175605-A-1	6MW2011	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
490-175605-A-1 MS	6MW2011MS	8260C DOD	T	5 mL	5 mL	<2 SU	10 uL	10 uL	
490-175605-A-1 MSD	6MW2011MSD	8260C DOD	T	5 mL	5 mL	<2 SU	10 uL	10 uL	
490-175605-A-2	6MW2511	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
490-175605-A-3	6MW2611	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
490-175605-A-4	6MW2311	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
490-175605-A-5	6MW2211	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
490-175605-A-6	6MW2411	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
490-175605-A-7	FB07	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
490-175605-A-8	TB	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
490-175605-B-9	6MW2011D	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
CCVC 160-431879/20		8260C DOD		5 mL	5 mL		10 uL	10 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	I.S. Working 00177					
BFB 160-431879/2		8260C DOD							
CCV 160-431879/3		8260C DOD		10 uL					
LCS 160-431879/4		8260C DOD		10 uL					
LCSD 160-431879/5		8260C DOD		10 uL					
MB 160-431879/7		8260C DOD		10 uL					
490-175605-A-1	6MW2011	8260C DOD	T	10 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Loui Job No.: 490-175605-1

SDG No.:

Batch Number: 431879 Batch Start Date: 06/17/19 10:40 Batch Analyst: Agu, Kelli K

Batch Method: 8260C DOD Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	I.S. Working 00177					
490-175605-A-1 MS	6MW2011MS	8260C DOD	T	10 uL					
490-175605-A-1 MSD	6MW2011MSD	8260C DOD	T	10 uL					
490-175605-A-2	6MW2511	8260C DOD	T	10 uL					
490-175605-A-3	6MW2611	8260C DOD	T	10 uL					
490-175605-A-4	6MW2311	8260C DOD	T	10 uL					
490-175605-A-5	6MW2211	8260C DOD	T	10 uL					
490-175605-A-6	6MW2411	8260C DOD	T	10 uL					
490-175605-A-7	FB07	8260C DOD	T	10 uL					
490-175605-A-8	TB	8260C DOD	T	10 uL					
490-175605-B-9	6MW2011D	8260C DOD	T	10 uL					
CCVC 160-431879/20		8260C DOD		10 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 490-175605-1

SDG No.:

Project: Stratton ANGB, NY (Schenectady)

Client Sample ID	Lab Sample ID
6MW2011	490-175605-1
6MW2511	490-175605-2
6MW2611	490-175605-3
6MW2311	490-175605-4
6MW2211	490-175605-5
6MW2411	490-175605-6
6MW2011D	490-175605-9

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2011 Lab Sample ID: 490-175605-1

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG ID.:

Matrix: Water Date Sampled: 06/05/2019 12:40

Reporting Basis: WET Date Received: 06/08/2019 09:45

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	4.4	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2511 Lab Sample ID: 490-175605-2

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG ID.:

Matrix: Water Date Sampled: 06/05/2019 14:00

Reporting Basis: WET Date Received: 06/08/2019 09:45

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	5.6	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2611 Lab Sample ID: 490-175605-3

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG ID.:

Matrix: Water Date Sampled: 06/05/2019 14:45

Reporting Basis: WET Date Received: 06/08/2019 09:45

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	4.6	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2311 Lab Sample ID: 490-175605-4

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG ID.:

Matrix: Water Date Sampled: 06/05/2019 15:35

Reporting Basis: WET Date Received: 06/08/2019 09:45

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	3.4	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2211 Lab Sample ID: 490-175605-5

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG ID.:

Matrix: Water Date Sampled: 06/05/2019 16:35

Reporting Basis: WET Date Received: 06/08/2019 09:45

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	61	2.0	1.0	0.31	mg/L			2	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2411 Lab Sample ID: 490-175605-6

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG ID.:

Matrix: Water Date Sampled: 06/06/2019 07:15

Reporting Basis: WET Date Received: 06/08/2019 09:45

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	4.5	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2011D
Lab Sample ID: 490-175605-9
Lab Name: Eurofins TestAmerica, Denver
Job No.: 490-175605-1
SDG ID.:
Matrix: Water
Date Sampled: 06/05/2019 12:40
Reporting Basis: WET
Date Received: 06/08/2019 09:45

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	4.7	1.0	0.50	0.16	mg/L			1	9060A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Analyst: JAM Batch Start Date: 07/01/2019

Reporting Units: mg/L Analytical Batch No.: 463355

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	14:01	Total Organic Carbon - Quad	19.9	20.0	100	90-110		TOC ICV Std_00037
2	ICB	14:18	Total Organic Carbon - Quad	0.50				U	
11	CCV	16:34	Total Organic Carbon - Quad	25.1	25.0	100	90-110		TOC ICV Std_00037
12	CCB	16:49	Total Organic Carbon - Quad	0.50				U	
23	CCV	19:31	Total Organic Carbon - Quad	25.1	25.0	100	90-110		TOC ICV Std_00037
24	CCB	19:46	Total Organic Carbon - Quad	0.50				U	
35	CCV	22:28	Total Organic Carbon - Quad	25.1	25.0	100	90-110		TOC ICV Std_00037
36	CCB	22:43	Total Organic Carbon - Quad	0.50				U	
47	CCV	01:27	Total Organic Carbon - Quad	25.2	25.0	101	90-110		TOC ICV Std_00037
48	CCB	01:42	Total Organic Carbon - Quad	0.50				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Analyst: CCJ Batch Start Date: 07/02/2019

Reporting Units: mg/L Analytical Batch No.: 463599

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	14:55	Total Organic Carbon - Quad	19.9	20.0	99	90-110		TOC ICV Std_00037
2	ICB	15:10	Total Organic Carbon - Quad	0.50				U	
50	CCV	03:18	Total Organic Carbon - Quad	24.7	25.0	99	90-110		TOC ICV Std_00037
51	CCB	03:33	Total Organic Carbon - Quad	0.50				U	
62	CCV	06:18	Total Organic Carbon - Quad	25.1	25.0	100	90-110		TOC ICV Std_00037
63	CCB	06:32	Total Organic Carbon - Quad	0.50				U	
74	CCV	09:40	Total Organic Carbon - Quad	25.5	25.0	102	90-110		TOC ICV Std_00037
75	CCB	09:54	Total Organic Carbon - Quad	0.50				U	
85	CCV	12:22	Total Organic Carbon - Quad	25.3	25.0	101	90-110		TOC ICV Std_00037
86	CCB	12:37	Total Organic Carbon - Quad	0.50				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 463355 Date: 07/01/2019 18:18							
9060A	MB 280-463355/18	Total Organic Carbon - Quad	0.50	U	mg/L	1.0	1
Batch ID: 463599 Date: 07/03/2019 05:19							
9060A	MB 280-463599/58	Total Organic Carbon - Quad	0.50	U	mg/L	1.0	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 463355 Date: 07/01/2019 21:58											
9060A	490-175605-2	Total Organic Carbon - Quad	5.6		mg/L						
9060A	490-175605-2 MS	Total Organic Carbon - Quad	30.2		mg/L	25.0	99	88-112			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 463355 Date: 07/01/2019 22:13											
9060A	490-175605-2 MSD	Total Organic Carbon - Quad	30.2		mg/L	25.0	99	88-112	0	15	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 463355 Date: 07/01/2019 18:03											
						LCS Source: TOC LCS Std_00046					
9060A	LCS 280-463355/17	Total Organic Carbon - Quad	24.2		mg/L	25.0	97	88-112			
Batch ID: 463599 Date: 07/03/2019 04:49											
						LCS Source: TOC LCS Std_00046					
9060A	LCS 280-463599/56	Total Organic Carbon - Quad	24.4		mg/L	25.0	97	88-112	0	15	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 463599	Date: 07/03/2019 05:04										
						LCSD Source: TOC LCS Std_00046					
9060A	LCSD 280-463599/57	Total Organic Carbon - Quad	24.3		mg/L	25.0	97	88-112	0	15	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 490-175605-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI3

Method: 9060A DL Date: 03/28/2011 11:39

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Total Organic Carbon - Quad		1	0.155

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 490-175605-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI3

Method: 9060A XMDL Date: 03/28/2011 11:39

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Organic Carbon - Quad		1	0.155

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 07/01/2019 14:01 End Date: 07/02/2019 08:20

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
ICV 280-463355/1	1		14:01	X																									
ICB 280-463355/2	1		14:18	X																									
ZZZZZZ			14:32																										
ZZZZZZ			14:47																										
ZZZZZZ			15:02																										
ZZZZZZ			15:17																										
ZZZZZZ			15:31																										
ZZZZZZ			15:46																										
ZZZZZZ			16:03																										
ZZZZZZ			16:20																										
CCV 280-463355/11	1		16:34	X																									
CCB 280-463355/12	1		16:49	X																									
ZZZZZZ			17:04																										
ZZZZZZ			17:19																										
ZZZZZZ			17:33																										
ZZZZZZ			17:48																										
LCS 280-463355/17	1	T	18:03	X																									
MB 280-463355/18	1	T	18:18	X																									
ZZZZZZ			18:32																										
ZZZZZZ			18:47																										
ZZZZZZ			19:02																										
ZZZZZZ			19:16																										
CCV 280-463355/23	1		19:31	X																									
CCB 280-463355/24	1		19:46	X																									
ZZZZZZ			20:01																										
ZZZZZZ			20:15																										
ZZZZZZ			20:30																										
ZZZZZZ			20:45																										
ZZZZZZ			20:59																										
ZZZZZZ			21:14																										
490-175605-1	1	T	21:29	X																									
490-175605-2	1	T	21:44	X																									
490-175605-2 MS	1	T	21:58	X																									
490-175605-2 MSD	1	T	22:13	X																									
CCV 280-463355/35	1		22:28	X																									
CCB 280-463355/36	1		22:43	X																									
490-175605-3	1	T	22:57	X																									
490-175605-4	1	T	23:12	X																									
ZZZZZZ			23:27																										
490-175605-9	1	T	23:44	X																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 07/01/2019 14:01 End Date: 07/02/2019 08:20

Lab Sample Id	D/F	Type	Time	Analytes																										
				TOCQ																										
ZZZZZZ			23:58																											
ZZZZZZ			00:13																											
ZZZZZZ			00:28																											
ZZZZZZ			00:43																											
ZZZZZZ			00:57																											
ZZZZZZ			01:12																											
CCV 280-463355/47	1		01:27	X																										
CCB 280-463355/48	1		01:42	X																										
ZZZZZZ			01:56																											
ZZZZZZ			02:11																											
ZZZZZZ			02:26																											
ZZZZZZ			02:40																											
ZZZZZZ			02:55																											
ZZZZZZ			03:10																											
ZZZZZZ			03:25																											
ZZZZZZ			03:39																											
ZZZZZZ			03:54																											
ZZZZZZ			04:09																											
CCV 280-463355/59			04:24																											
CCB 280-463355/60			04:38																											
ZZZZZZ			04:53																											
ZZZZZZ			05:08																											
ZZZZZZ			05:23																											
ZZZZZZ			05:37																											
ZZZZZZ			05:52																											
ZZZZZZ			06:07																											
ZZZZZZ			06:22																											
ZZZZZZ			06:36																											
ZZZZZZ			06:51																											
ZZZZZZ			07:06																											
CCV 280-463355/71			07:21																											
CCB 280-463355/72			07:35																											
ZZZZZZ			07:50																											
CCV 280-463355/74			08:05																											
CCB 280-463355/75			08:20																											

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 07/02/2019 14:55 End Date: 07/03/2019 13:51

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
ICV 280-463599/1	1		14:55	X																									
ICB 280-463599/2	1		15:10	X																									
ZZZZZZ			15:24																										
ZZZZZZ			15:41																										
ZZZZZZ			15:56																										
ZZZZZZ			16:11																										
ZZZZZZ			16:25																										
ZZZZZZ			16:40																										
ZZZZZZ			16:55																										
ZZZZZZ			17:10																										
ZZZZZZ			17:24																										
ZZZZZZ			17:39																										
ZZZZZZ			18:01																										
ZZZZZZ			18:18																										
CCV 280-463599/15			18:33																										
CCB 280-463599/16			18:48																										
ZZZZZZ			19:02																										
ZZZZZZ			19:17																										
ZZZZZZ			19:32																										
ZZZZZZ			19:46																										
ZZZZZZ			20:01																										
ZZZZZZ			20:16																										
ZZZZZZ			20:31																										
ZZZZZZ			20:45																										
ZZZZZZ			21:00																										
CCV 280-463599/26			21:15																										
CCB 280-463599/27			21:30																										
ZZZZZZ			21:44																										
ZZZZZZ			21:59																										
ZZZZZZ			22:14																										
ZZZZZZ			22:28																										
ZZZZZZ			22:43																										
ZZZZZZ			22:58																										
ZZZZZZ			23:13																										
ZZZZZZ			23:28																										
ZZZZZZ			23:42																										
ZZZZZZ			23:57																										
CCV 280-463599/38			00:12																										
CCB 280-463599/39			00:27																										
ZZZZZZ			00:41																										

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 07/02/2019 14:55 End Date: 07/03/2019 13:51

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
ZZZZZZ			00:56																										
ZZZZZZ			01:11																										
ZZZZZZ			01:26																										
ZZZZZZ			01:40																										
ZZZZZZ			02:03																										
ZZZZZZ			02:17																										
ZZZZZZ			02:34																										
ZZZZZZ			02:49																										
ZZZZZZ			03:04																										
CCV 280-463599/50	1		03:18	X																									
CCB 280-463599/51	1		03:33	X																									
ZZZZZZ			03:48																										
ZZZZZZ			04:05																										
ZZZZZZ			04:19																										
ZZZZZZ			04:34																										
LCS 280-463599/56	1	T	04:49	X																									
LCSD 280-463599/57	1	T	05:04	X																									
MB 280-463599/58	1	T	05:19	X																									
ZZZZZZ			05:33																										
ZZZZZZ			05:48																										
ZZZZZZ			06:03																										
CCV 280-463599/62	1		06:18	X																									
CCB 280-463599/63	1		06:32	X																									
ZZZZZZ			06:47																										
ZZZZZZ			07:02																										
ZZZZZZ			07:17																										
ZZZZZZ			07:31																										
ZZZZZZ			07:46																										
ZZZZZZ			08:03																										
ZZZZZZ			08:22																										
ZZZZZZ			08:47																										
ZZZZZZ			09:06																										
ZZZZZZ			09:25																										
CCV 280-463599/74	1		09:40	X																									
CCB 280-463599/75	1		09:54	X																									
ZZZZZZ			10:09																										
490-175605-5	2	T	10:24	X																									
490-175605-6	1	T	10:39	X																									
ZZZZZZ			10:53																										
ZZZZZZ			11:08																										

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 07/02/2019 14:55 End Date: 07/03/2019 13:51

Lab Sample Id	D/F	Type	Time	Analytes																								
				TOCQ																								
ZZZZZZ			11:23																									
ZZZZZZ			11:38																									
ZZZZZZ			11:52																									
ZZZZZZ			12:07																									
CCV 280-463599/85	1		12:22	X																								
CCB 280-463599/86	1		12:37	X																								
ZZZZZZ			12:52																									
ZZZZZZ			13:06																									
ZZZZZZ			13:21																									
CCV 280-463599/90			13:36																									
CCB 280-463599/91			13:51																									

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Batch Number: 463355 Batch Start Date: 07/01/19 14:01 Batch Analyst: Martinez, Joslyn A

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TOC ICV Std 00037	TOC LCS Std 00046		
ICV 280-463355/1		9060A		50 mL	50 mL	1 mL			
ICB 280-463355/2		9060A		20 mL	20 mL				
CCV 280-463355/11		9060A		200 mL	200 mL	5 mL			
CCB 280-463355/12		9060A		20 mL	20 mL				
LCS 280-463355/17		9060A		200 mL	200 mL		5 mL		
MB 280-463355/18		9060A		20 mL	20 mL				
CCV 280-463355/23		9060A		200 mL	200 mL	5 mL			
CCB 280-463355/24		9060A		20 mL	20 mL				
490-175605-D-1	6MW2011	9060A	T	20 mL	20 mL				
490-175605-D-2	6MW2511	9060A	T	20 mL	20 mL				
490-175605-D-2 MS	6MW2511	9060A	T	50 mL	50 mL		1.25 mL		
490-175605-D-2 MSD	6MW2511	9060A	T	50 mL	50 mL		1.25 mL		
CCV 280-463355/35		9060A		200 mL	200 mL	5 mL			
CCB 280-463355/36		9060A		20 mL	20 mL				
490-175605-D-3	6MW2611	9060A	T	20 mL	20 mL				
490-175605-D-4	6MW2311	9060A	T	20 mL	20 mL				
490-175605-E-9	6MW2011D	9060A	T	20 mL	20 mL				
CCV 280-463355/47		9060A		200 mL	200 mL	5 mL			
CCB 280-463355/48		9060A		20 mL	20 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Batch Number: 463355 Batch Start Date: 07/01/19 14:01 Batch Analyst: Martinez, Joslyn A

Batch Method: 9060A Batch End Date:

Batch Notes	
Acid ID	0.2% H2SO4_00318, H2SO4_00199
Batch Comment	JM trained by CJ
Combustion Catylyst ID	18003D-05
Pipette/Syringe/Dispenser ID	5000CCJ, 1000CJ

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Batch Number: 463357 Batch Start Date: 07/01/19 14:01 Batch Analyst: Martinez, Joslyn A

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TOC LCS Std 00046			
LCS 280-463357/17		9060A		200 mL	200 mL	5 mL			
MB 280-463357/18		9060A		20 mL	20 mL				
490-175605-D-1	6MW2011	9060A	T	20 mL	20 mL				
490-175605-D-2	6MW2511	9060A	T	20 mL	20 mL				
490-175605-D-2 MS	6MW2511	9060A	T	50 mL	50 mL	1.25 mL			
490-175605-D-2 MSD	6MW2511	9060A	T	50 mL	50 mL	1.25 mL			
490-175605-D-3	6MW2611	9060A	T	20 mL	20 mL				
490-175605-D-4	6MW2311	9060A	T	20 mL	20 mL				
490-175605-D-5	6MW2211	9060A	T	20 mL	20 mL				
490-175605-E-9	6MW2011D	9060A	T	20 mL	20 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Batch Number: 463599 Batch Start Date: 07/02/19 14:55 Batch Analyst: Jewell, Connie C

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TOC ICV Std 00037	TOC LCS Std 00046		
ICV 280-463599/1		9060A		50 mL	50 mL	1 mL			
ICB 280-463599/2		9060A		20 mL	20 mL				
CCV 280-463599/50		9060A		200 mL	200 mL	5 mL			
CCB 280-463599/51		9060A		20 mL	20 mL				
LCS 280-463599/56		9060A		200 mL	200 mL		5 mL		
LCSD 280-463599/57		9060A		200 mL	200 mL		5 mL		
MB 280-463599/58		9060A		20 mL	20 mL				
CCV 280-463599/62		9060A		200 mL	200 mL	5 mL			
CCB 280-463599/63		9060A		20 mL	20 mL				
CCV 280-463599/74		9060A		200 mL	200 mL	5 mL			
CCB 280-463599/75		9060A		20 mL	20 mL				
490-175605-D-5	6MW2211	9060A	T	20 mL	20 mL				
490-175605-D-6	6MW2411	9060A	T	20 mL	20 mL				
CCV 280-463599/85		9060A		200 mL	200 mL	5 mL			
CCB 280-463599/86		9060A		20 mL	20 mL				

Batch Notes	
Acid ID	0.2%H2SO4_00319, H2SO4_00199
Combustion Catylyst ID	18003D-05
Pipette/Syringe/Dispenser ID	wc5000ccj, wc1000cj

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 490-175605-1

SDG No.:

Batch Number: 463600 Batch Start Date: 07/02/19 14:55 Batch Analyst: Jewell, Connie C

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TOC LCS Std 00046			
LCS 280-463600/56		9060A		200 mL	200 mL	5 mL			
LCSD 280-463600/57		9060A		200 mL	200 mL	5 mL			
MB 280-463600/58		9060A		20 mL	20 mL				
490-175605-D-5	6MW2211	9060A	T	20 mL	20 mL				
490-175605-D-6	6MW2411	9060A	T	20 mL	20 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

jm 7/1/19 pH

	Analysis	Sample Name	Sample ID	Manual Diluti	~~Result~~	Notes	Date / Time	Vial
1*	NPOC	ICV		1.000	<2			1
2*	NPOC	ICB		1.000	<2			2
3*	NPOC	lcs 280-463267/1-a		1.000	<2			3
4*	NPOC	mb 280-463267/2-a		1.000	<2			4
5*	NPOC	TIC		1.000	<2			5
6*	NPOC	280-124912-f-1-d		1.000	8			6
7*	NPOC	280-124912-f-1-e ms		1.000	8			7
8*	NPOC	280-124912-f-1-f msd		1.000	8			8
9*	NPOC	280-124912-f-2-b		1.000	8			9
10*	NPOC	280-124912-f-3-b		1.000	8			10
11*	NPOC	CCV		1.000	<2			11
12*	NPOC	CCB		1.000	<2			12
13*	NPOC	280-124912-f-6-b		1.000	8			13
14*	NPOC	280-124912-f-7-b		1.000	8			14
15*	NPOC	280-124912-f-8-b		1.000	7			15
16*	NPOC	280-124912-f-12-b		1.000	8			16
17*	NPOC	LCS		1.000	<2			17
18*	NPOC	MB		1.000	<2			18
19*	NPOC	TIC		1.000	<2			19
20*	NPOC	280-124711-e-1		1.000	<2			20
21*	NPOC	280-124711-c-2		1.000	<2			21
22*	NPOC	280-124711-d-3		1.000	<2			22
23*	NPOC	CCV		1.000	<2			23
24*	NPOC	CCB		1.000	<2			24
25*	NPOC	280-124711-e-4		1.000	<2			25
26*	NPOC	280-124711-e-4 MS		1.000	<2			26
27*	NPOC	280-124711-e-4 MSD		1.000	<2			27
28*	NPOC	280-124717-b-1		1.000	<2			28
29*	NPOC	280-124717-b-2		1.000	<2			29
30*	NPOC	280-124717-b-3		1.000	<2			30
31*	NPOC	490-175605-d-1		1.000	<2			31
32*	NPOC	490-175605-d-2		1.000	<2			32
33*	NPOC	490-175605-d-2 MS		1.000	<2			33
34*	NPOC	490-175605-d-2 MSD		1.000	<2			34
35*	NPOC	CCV		1.000	<2			35
36*	NPOC	CCB		1.000	<2			36
37*	NPOC	490-175605-d-3		1.000	<2			37
38*	NPOC	490-175605-d-4		1.000	<2			38
39*	NPOC	490-175605-d-5		1.000	<2			39
40*	NPOC	490-175605-e-9		1.000	<2			40
41*	NPOC	LCS		1.000	<2			41
42*	NPOC	MB		1.000	<2			42
43*	NPOC	TIC		1.000	<2			43
44*	NPOC	280-124678-c-2		1.000	<2			44
45*	NPOC	280-124678-c-2 MS		1.000	<2			45
46*	NPOC	280-124678-c-2 MSD		1.000	<2			46
47*	NPOC	CCV		1.000	<2			47
48*	NPOC	CCB		1.000	<2			48
49*	NPOC	280-124728-a-5		1.000	<2			49
50*	NPOC	280-124728-a-6		1.000	<2			50
51*	NPOC	280-124728-a-7		1.000	<2			51

Filter 9060 DiSS

9060

5310

DM 7/1/19
pH

	Analysis	Sample Name	Sample ID	Manual Diluti	~~Result~~	Notes	Date / Time	Vial
52*	NPOC	280-124728-a-8		1.000	<2			52
53*	NPOC	280-124728-a-9		1.000	<2			53
54*	NPOC	280-124728-a-10		1.000	<2			54
55*	NPOC	280-124728-a-11		1.000	<2			55
56*	NPOC	280-124728-a-12		1.000	<2			56
57*	NPOC	280-124728-a-13		1.000	<2			57
58*	NPOC	280-124728-a-14		1.000	<2			58
59*	NPOC	CCV		1.000	<2			59
60*	NPOC	CCB		1.000	<2			60
61*	NPOC	280-124728-a-15		1.000	<2			61
62*	NPOC	280-124728-a-16		1.000	<2			62
63*	NPOC	280-124740-c-2		1.000	<2			63
64*	NPOC	280-124740-c-2 MS		1.000	<2			64
65*	NPOC	280-124740-c-2 MSD		1.000	<2			65
66*	NPOC	280-124740-c-3		1.000	<2			66
67*	NPOC	280-124740-c-4		1.000	<2			67
68*	NPOC	280-124740-c-5		1.000	<2			68
69*	NPOC	280-124740-c-6		1.000	<2			69
70*	NPOC	280-124740-c-7		1.000	<2			70
71*	NPOC	CCV		1.000	<2			71
72*	NPOC	CCB		1.000	<2			72
73*	NPOC	280-124740-c-8		1.000	<2			73
74*	NPOC	CCV		1.000	<2			74
75*	NPOC	CCB		1.000	<2			75

FILTRATION Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 280-463267

Analyst: Martinez, Joslyn A

Batch Open: 7/1/2019 11:47:00AM

Batch End:

Sample Filtration

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	LCS~280-463267/1 N/A	N/A		200 mL	200 mL	N/A	N/A	N/A		
2	MB~280-463267/2 N/A	N/A		20 mL	20 mL	N/A	N/A	N/A		
3	280-124912-F-1 (9060A_Diss)	N/A (280-124912-1)	Water	20 mL	20 mL	6/22/19	16_Days	4		
4	280-124912-F-1~MS (9060A_Diss)	N/A (280-124912-1)	Water	20 mL	20 mL	6/22/19	16_Days	4		
5	280-124912-F-1~MSD (9060A_Diss)	N/A (280-124912-1)	Water	20 mL	20 mL	6/22/19	16_Days	4		
6	280-124912-F-2 (9060A_Diss)	N/A (280-124912-1)	Water	20 mL	20 mL	6/22/19	16_Days	4		
7	280-124912-F-3 (9060A_Diss)	N/A (280-124912-1)	Water	20 mL	20 mL	6/22/19	16_Days	4		
8	280-124912-F-6 (9060A_Diss)	N/A (280-124912-1)	Water	20 mL	20 mL	6/22/19	16_Days	4		
9	280-124912-F-7 (9060A_Diss)	N/A (280-124912-1)	Water	20 mL	20 mL	6/22/19	16_Days	4		
10	280-124912-F-8 (9060A_Diss)	N/A (280-124912-1)	Water	20 mL	20 mL	6/22/19	16_Days	4		
11	280-124912-F-12 (9060A_Diss)	N/A (280-124912-1)	Water	20 mL	20 mL	6/22/19	16_Days	4		

FILTRATION Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 280-463267

Analyst: Martinez, Joslyn A

Batch Open: 7/1/2019 11:47:00AM

Batch End:

Batch Notes

Pipette/Syringe/Dispenser ID	na
Filter ID	9743727
Nitric Acid ID	na
Batch Comment	na

Comments

280-124912-F-1	Method Comments:	Q5Rev3.1-12212015_Std Var App_60day disposal
280-124912-F-1~MS	Method Comments:	Q5Rev3.1-12212015_Std Var App_60day disposal
280-124912-F-1~MS	Method Comments:	Q5Rev3.1-12212015_Std Var App_60day disposal
280-124912-F-2	Method Comments:	Q5Rev3.1-12212015_Std Var App_60day disposal
280-124912-F-3	Method Comments:	Q5Rev3.1-12212015_Std Var App_60day disposal
280-124912-F-6	Method Comments:	Q5Rev3.1-12212015_Std Var App_60day disposal
280-124912-F-7	Method Comments:	Q5Rev3.1-12212015_Std Var App_60day disposal
280-124912-F-8	Method Comments:	Q5Rev3.1-12212015_Std Var App_60day disposal
280-124912-F-12	Method Comments:	Q5Rev3.1-12212015_Std Var App_60day disposal

	Analysis	Sample Name	Sample ID	Manual Diluti	Result	Notes	Date / Time	Vial
1	NPOC	ICV		1.000	NPOC:19.9		7/1/2019 2:07:3	1
2	NPOC	ICB		1.000	NPOC:0.01		7/1/2019 2:24:2	2
3	NPOC	lcs 280-463267/1-a		1.000	NPOC:24.1		7/1/2019 2:39:0	3
4	NPOC	mb 280-463267/2-a		1.000	NPOC:0.17		7/1/2019 2:53:5	4
5	NPOC	TIC		1.000	NPOC:0.06		7/1/2019 3:08:3	5
6	NPOC	280-124912-f-1-d		1.000	NPOC:6.24		7/1/2019 3:23:1	6
7	NPOC	280-124912-f-1-e ms		1.000	NPOC:30.5		7/1/2019 3:38:0	7
8	NPOC	280-124912-f-1-f msd		1.000	NPOC:30.6		7/1/2019 3:52:4	8
9	NPOC	280-124912-f-2-b		1.000	NPOC:5.13		7/1/2019 4:09:3	9
10	NPOC	280-124912-f-3-b		1.000	NPOC:4.54		7/1/2019 4:26:1	10
11	NPOC	CCV		1.000	NPOC:25.1		7/1/2019 4:41:0	11
12	NPOC	CCB		1.000	NPOC:0.04		7/1/2019 4:55:5	12
13	NPOC	280-124912-f-6-b		1.000	NPOC:2.82		7/1/2019 5:10:3	13
14	NPOC	280-124912-f-7-b		1.000	NPOC:1.79		7/1/2019 5:25:1	14
15	NPOC	280-124912-f-8-b		1.000	NPOC:6.13		7/1/2019 5:40:0	15
16	NPOC	280-124912-f-12-b		1.000	NPOC:6.23		7/1/2019 5:54:4	16
17	NPOC	LCS		1.000	NPOC:24.2		7/1/2019 6:09:2	17
18	NPOC	MB		1.000	NPOC:0.04		7/1/2019 6:24:1	18
19	NPOC	TIC		1.000	NPOC:0.08		7/1/2019 6:38:5	19
20	NPOC	280-124711-e-1		1.000	NPOC:3.82		7/1/2019 6:53:3	20
21	NPOC	280-124711-c-2		1.000	NPOC:0.51		7/1/2019 7:08:2	21
22	NPOC	280-124711-d-3		1.000	NPOC:0.43		7/1/2019 7:23:0	22
23	NPOC	CCV		1.000	NPOC:25.0		7/1/2019 7:37:4	23
24	NPOC	CCB		1.000	NPOC:0.03		7/1/2019 7:52:3	24
25	NPOC	280-124711-e-4		1.000	NPOC:0.36		7/1/2019 8:07:1	25
26	NPOC	280-124711-e-4 MS		1.000	NPOC:24.9		7/1/2019 8:21:5	26
27	NPOC	280-124711-e-4 MSD		1.000	NPOC:24.9		7/1/2019 8:36:4	27
28	NPOC	280-124717-b-1		1.000	NPOC:1.10		7/1/2019 8:51:2	28
29	NPOC	280-124717-b-2		1.000	NPOC:0.13		7/1/2019 9:06:0	29
30	NPOC	280-124717-b-3		1.000	NPOC:0.41		7/1/2019 9:20:5	30
31	NPOC	490-175605-d-1		1.000	NPOC:4.42		7/1/2019 9:35:3	31
32	NPOC	490-175605-d-2		1.000	NPOC:5.56		7/1/2019 9:50:2	32
33	NPOC	490-175605-d-2 MS		1.000	NPOC:30.2		7/1/2019 10:05:	33
34	NPOC	490-175605-d-2 MSD		1.000	NPOC:30.2		7/1/2019 10:19:	34
35	NPOC	CCV		1.000	NPOC:25.0		7/1/2019 10:34:	35
36	NPOC	CCB		1.000	NPOC:0.05		7/1/2019 10:49:	36
37	NPOC	490-175605-d-3		1.000	NPOC:4.56		7/1/2019 11:04:	37
38	NPOC	490-175605-d-4		1.000	NPOC:3.40		7/1/2019 11:18:	38
39	NPOC	490-175605-d-5		1.000	NPOC:63.0		7/1/2019 11:33:	39
40	NPOC	490-175605-e-9		1.000	NPOC:4.69		7/1/2019 11:50:	40
41	NPOC	LCS		1.000	NPOC:25.2		7/2/2019 12:04:	41
42	NPOC	MB		1.000	NPOC:0.06		7/2/2019 12:19:	42
43	NPOC	TIC		1.000	NPOC:0.07		7/2/2019 12:34:	43
44	NPOC	280-124678-c-2		1.000	NPOC:6.63		7/2/2019 12:49:	44
45	NPOC	280-124678-c-2 MS		1.000	NPOC:31.6		7/2/2019 1:03:5	45
46	NPOC	280-124678-c-2 MSD		1.000	NPOC:31.9		7/2/2019 1:18:4	46
47	NPOC	CCV		1.000	NPOC:25.1		7/2/2019 1:33:3	47
48	NPOC	CCB		1.000	NPOC:0.05		7/2/2019 1:48:1	48
49	NPOC	280-124728-a-5		1.000	NPOC:2.44		7/2/2019 2:02:5	49
50	NPOC	280-124728-a-6		1.000	NPOC:2.65		7/2/2019 2:17:4	50
51	NPOC	280-124728-a-7		1.000	NPOC:3.83		7/2/2019 2:32:2	51
52	NPOC	280-124728-a-8		1.000	NPOC:2.61		7/2/2019 2:47:1	52
53	NPOC	280-124728-a-9		1.000	NPOC:3.02		7/2/2019 3:01:5	53

	Analysis	Sample Name	Sample ID	Manual Diluti	Result	Notes	Date / Time	Vial
54	NPOC	280-124728-a-10		1.000	NPOC:2.57		7/2/2019 3:16:3	54
55	NPOC	280-124728-a-11		1.000	NPOC:3.52		7/2/2019 3:31:2	55
56	NPOC	280-124728-a-12		1.000	NPOC:3.09		7/2/2019 3:46:0	56
57	NPOC	280-124728-a-13		1.000	NPOC:3.98		7/2/2019 4:00:5	57
58	NPOC	280-124728-a-14		1.000	NPOC:2.58		7/2/2019 4:15:3	58
59	NPOC	CCV		1.000	NPOC:25.1		7/2/2019 4:30:2	59
60	NPOC	CCB		1.000	NPOC:0.06		7/2/2019 4:45:0	60
61	NPOC	280-124728-a-15		1.000	NPOC:8.33		7/2/2019 4:59:5	61
62	NPOC	280-124728-a-16		1.000	NPOC:9.36		7/2/2019 5:14:3	62
63	NPOC	280-124740-c-2		1.000	NPOC:0.24		7/2/2019 5:29:2	63
64	NPOC	280-124740-c-2 MS		1.000	NPOC:25.2		7/2/2019 5:44:0	64
65	NPOC	280-124740-c-2 MSD		1.000	NPOC:25.3		7/2/2019 5:58:5	65
66	NPOC	280-124740-c-3		1.000	NPOC:0.64		7/2/2019 6:13:3	66
67	NPOC	280-124740-c-4		1.000	NPOC:0.63		7/2/2019 6:28:2	67
68	NPOC	280-124740-c-5		1.000	NPOC:14.1		7/2/2019 6:43:0	68
69	NPOC	280-124740-c-6		1.000	NPOC:3.56		7/2/2019 6:57:5	69
70	NPOC	280-124740-c-7		1.000	NPOC:0.48		7/2/2019 7:12:3	70
71	NPOC	CCV		1.000	NPOC:25.4		7/2/2019 7:27:2	71
72	NPOC	CCB		1.000	NPOC:0.06		7/2/2019 7:42:0	72
73	NPOC	280-124740-c-8		1.000	NPOC:-0.03		7/2/2019 7:56:5	73
74	NPOC	CCV		1.000	NPOC:24.3		7/2/2019 8:11:4	74
75	NPOC	CCB		1.000	NPOC:0.04		7/2/2019 8:26:2	75

Instr.Information

System	TOC-V cpn 3
Instrument Options	TOC/ASI/
Catalyst	Regular Sensitivity

Sample

Sample Name:	ICV
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

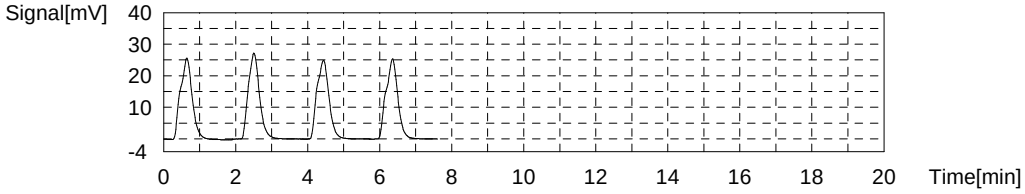
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.93mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	59.86	20.20mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:01:25 PM
2	59.24	19.99mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:03:29 PM
3	58.73	19.82mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:05:33 PM
4	58.41	19.71mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:07:37 PM

Mean Area 59.06
Mean Conc. 19.93mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

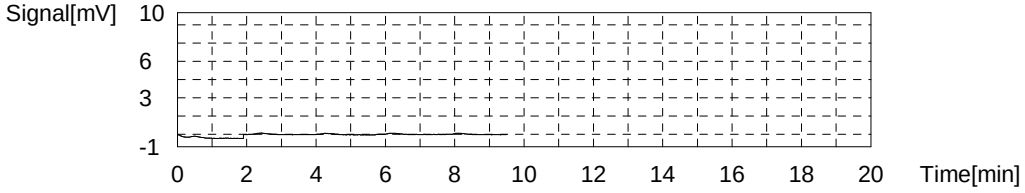
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.01021mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	-0.03558mg/L	50uL	1	E	TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:16:08 PM
2	0.2017	0.03261mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:18:12 PM
3	0.1815	0.02578mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:20:16 PM
4	0.000	-0.03558mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:22:20 PM
5	0.1586	0.01804mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:24:24 PM

Mean Area 0.1355
Mean Conc. 0.01021mg/L



Sample

Sample Name: lcs 280-463267/1-a
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

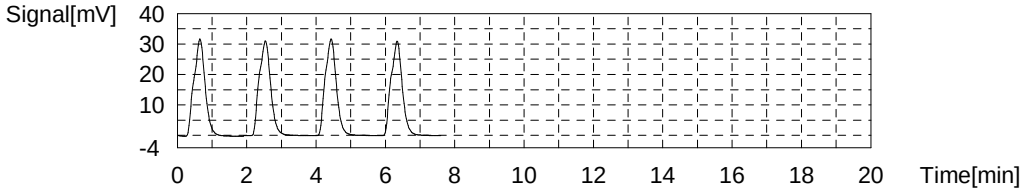
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.19mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.69	24.54mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:32:54 PM
2	71.96	24.29mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:34:58 PM
3	71.41	24.10mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:37:02 PM
4	70.64	23.84mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:39:06 PM

Mean Area 71.67
Mean Conc. 24.19mg/L



Sample

Sample Name: mb 280-463267/2-a
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

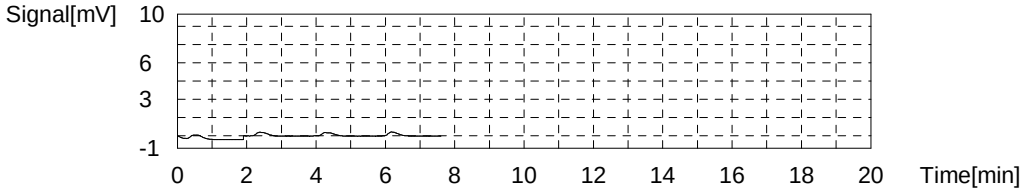
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1773mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6681	0.1903mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:47:38 PM
2	0.6196	0.1739mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:49:42 PM
3	0.5949	0.1655mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:51:46 PM
4	0.6361	0.1794mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 2:53:50 PM

Mean Area 0.6297
Mean Conc. 0.1773mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

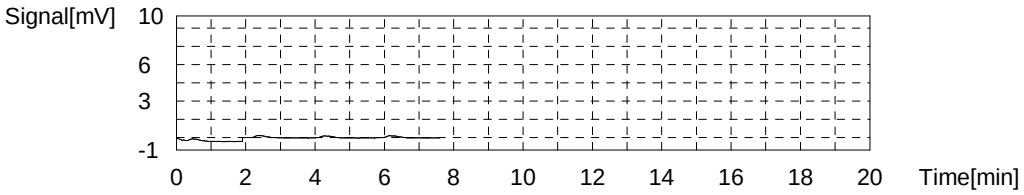
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06699mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2291	0.04187mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:02:22 PM
2	0.3374	0.07848mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:04:26 PM
3	0.3100	0.06921mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:06:30 PM
4	0.3372	0.07841mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:08:34 PM

Mean Area 0.3034
Mean Conc. 0.06699mg/L



Sample

Sample Name: 280-124912-f-1-d
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

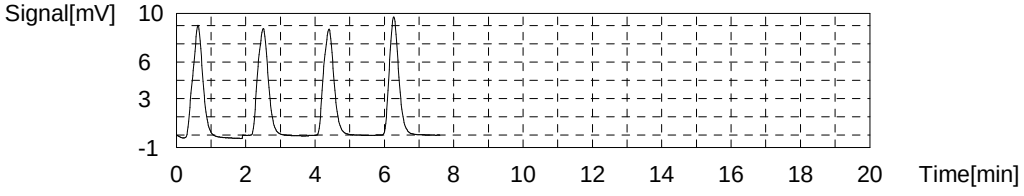
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.243mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.03	6.397mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:17:05 PM
2	18.60	6.252mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:19:09 PM
3	18.29	6.147mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:21:13 PM
4	18.38	6.177mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:23:17 PM

Mean Area 18.58
Mean Conc. 6.243mg/L



Sample

Sample Name: 280-124912-f-1-e ms
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

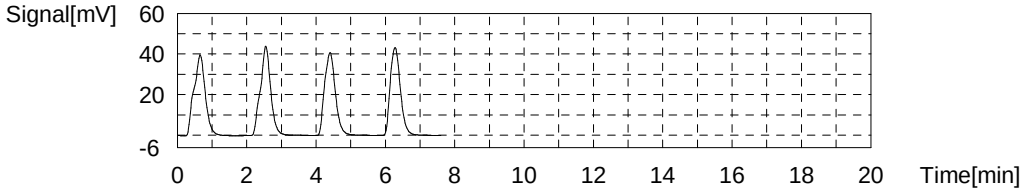
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.55mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	92.01	31.07mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:31:48 PM
2	91.16	30.78mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:33:52 PM
3	89.23	30.13mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:35:56 PM
4	89.53	30.23mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:38:00 PM

Mean Area 90.48
Mean Conc. 30.55mg/L



Sample

Sample Name: 280-124912-f-1-f msd
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

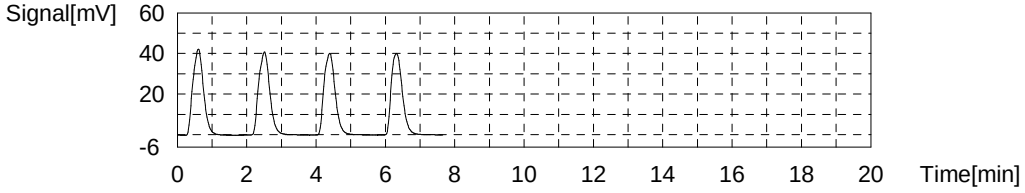
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.63mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.93	31.04mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:46:31 PM
2	91.33	30.84mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:48:35 PM
3	90.26	30.48mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:50:42 PM
4	89.39	30.18mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 3:52:46 PM

Mean Area 90.73
Mean Conc. 30.63mg/L



Sample

Sample Name: 280-124912-f-2-b
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

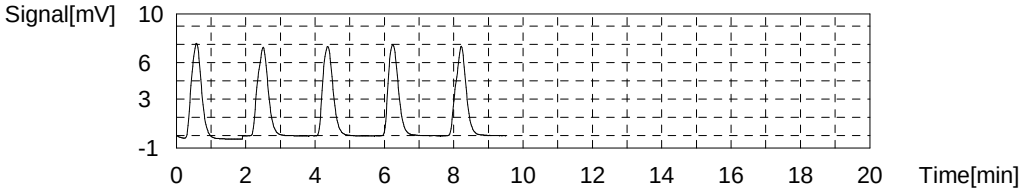
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.131mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.84	5.319mg/L	50uL	1	E	TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:01:17 PM
2	15.52	5.211mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:03:21 PM
3	15.15	5.086mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:05:25 PM
4	15.19	5.099mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:07:29 PM
5	15.28	5.130mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:09:33 PM

Mean Area 15.29
Mean Conc. 5.131mg/L



Sample

Sample Name: 280-124912-f-3-b
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

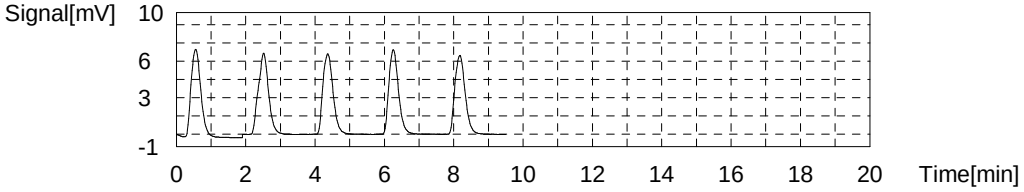
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.546mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.16	4.751mg/L	50uL	1	E	TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:18:03 PM
2	13.74	4.609mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:20:07 PM
3	13.49	4.524mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:22:11 PM
4	13.51	4.531mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:24:14 PM
5	13.47	4.518mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:26:18 PM

Mean Area 13.55
Mean Conc. 4.546mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

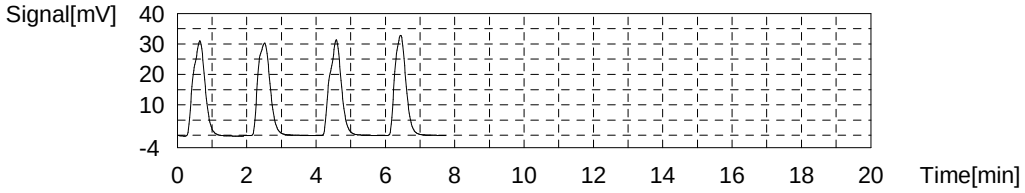
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.10mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.03	25.33mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:34:49 PM
2	74.73	25.23mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:37:01 PM
3	74.01	24.98mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:39:05 PM
4	73.64	24.86mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:41:09 PM

Mean Area 74.35
Mean Conc. 25.10mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

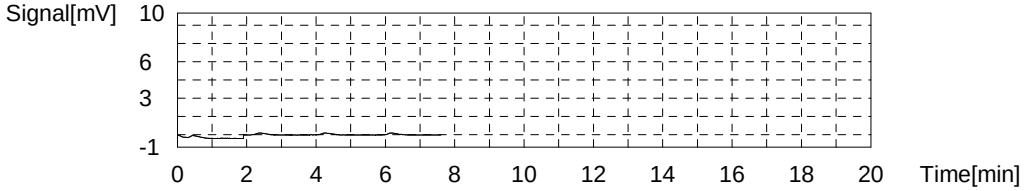
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04739mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2240	0.04014mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:49:40 PM
2	0.2586	0.05184mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:51:44 PM
3	0.2368	0.04447mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:53:48 PM
4	0.2623	0.05309mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 4:55:52 PM

Mean Area 0.2454
Mean Conc. 0.04739mg/L



Sample

Sample Name: 280-124912-f-6-b
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

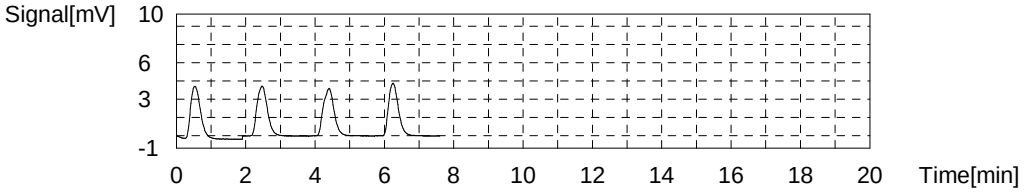
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.824mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.401	2.804mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:04:23 PM
2	8.545	2.853mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:06:27 PM
3	8.422	2.811mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:08:31 PM
4	8.468	2.827mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:10:35 PM

Mean Area 8.459
Mean Conc. 2.824mg/L



Sample

Sample Name: 280-124912-f-7-b
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

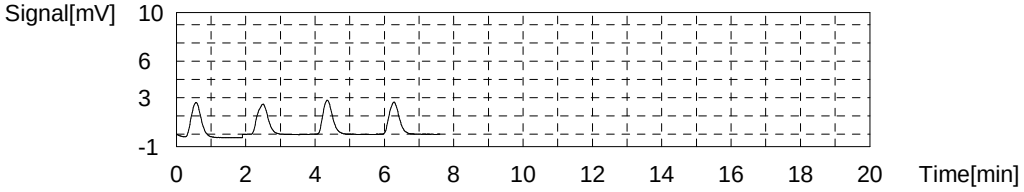
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.791mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.526	1.832mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:19:06 PM
2	5.393	1.787mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:21:10 PM
3	5.361	1.777mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:23:14 PM
4	5.334	1.767mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:25:18 PM

Mean Area 5.404
Mean Conc. 1.791mg/L



Sample

Sample Name: 280-124912-f-8-b
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

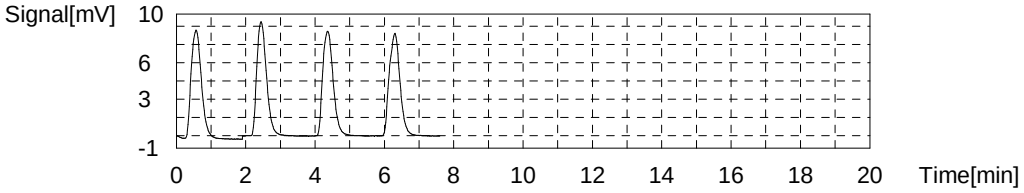
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.136mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.48	6.211mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:33:50 PM
2	18.27	6.140mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:35:54 PM
3	18.07	6.073mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:37:58 PM
4	18.21	6.120mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:40:01 PM

Mean Area 18.26
Mean Conc. 6.136mg/L



Sample

Sample Name: 280-124912-f-12-b
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

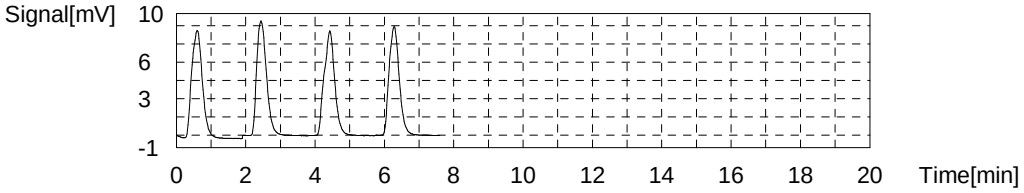
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.237mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.97	6.377mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:48:33 PM
2	18.62	6.259mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:50:37 PM
3	18.25	6.133mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:52:41 PM
4	18.39	6.181mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 5:54:45 PM

Mean Area 18.56
Mean Conc. 6.237mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

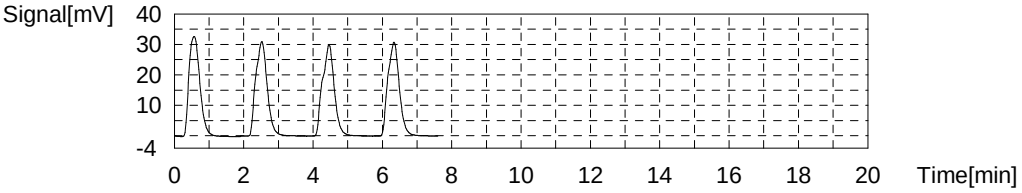
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.24mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	73.03	24.65mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:03:17 PM
2	71.65	24.18mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:05:21 PM
3	71.31	24.07mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:07:25 PM
4	71.31	24.07mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:09:29 PM

Mean Area 71.83
Mean Conc. 24.24mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

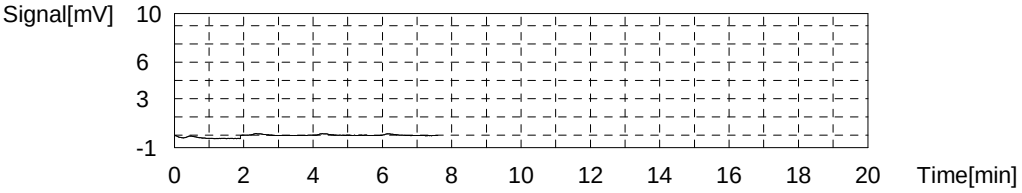
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04679mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2635	0.05350mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:18:00 PM
2	0.2567	0.05120mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:20:04 PM
3	0.2057	0.03396mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:22:08 PM
4	0.2488	0.04853mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:24:12 PM

Mean Area 0.2437
Mean Conc. 0.04679mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

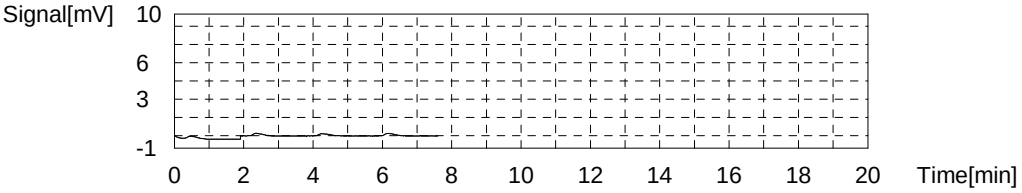
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08606mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3384	0.07881mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:32:43 PM
2	0.3624	0.08693mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:34:47 PM
3	0.3548	0.08436mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:36:51 PM
4	0.3837	0.09413mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:38:55 PM

Mean Area 0.3598
Mean Conc. 0.08606mg/L



Sample

Sample Name: 280-124711-e-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

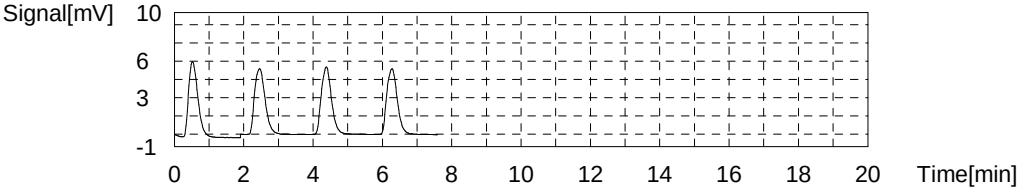
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.826mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.49	3.848mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:47:27 PM
2	11.44	3.832mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:49:31 PM
3	11.34	3.798mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:51:35 PM
4	11.43	3.828mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 6:53:38 PM

Mean Area 11.42
Mean Conc. 3.826mg/L



Sample

Sample Name: 280-124711-c-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

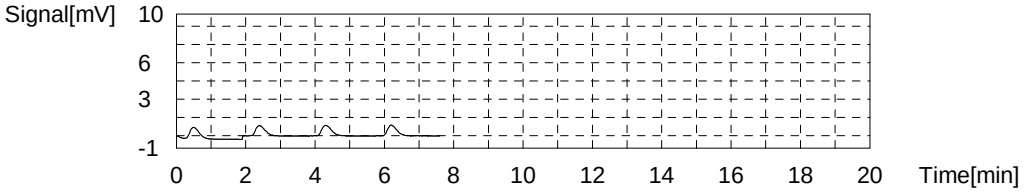
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5168mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.663	0.5266mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:02:10 PM
2	1.590	0.5019mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:04:14 PM
3	1.654	0.5235mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:06:18 PM
4	1.629	0.5151mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:08:22 PM

Mean Area 1.634
Mean Conc. 0.5168mg/L



Sample

Sample Name: 280-124711-d-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

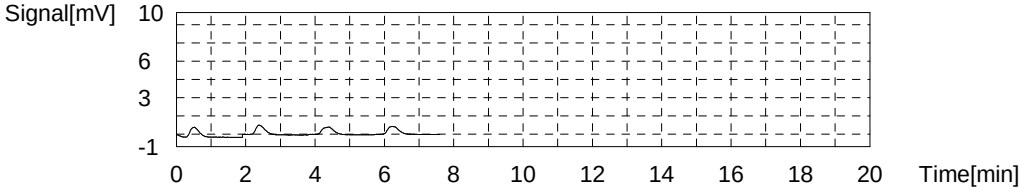
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4367mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.425	0.4461mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:16:53 PM
2	1.381	0.4312mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:18:57 PM
3	1.369	0.4272mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:21:01 PM
4	1.413	0.4421mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:23:05 PM

Mean Area 1.397
Mean Conc. 0.4367mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

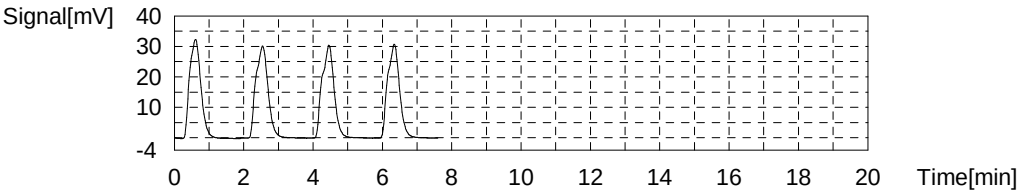
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.05mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	74.98	25.31mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:31:36 PM
2	74.23	25.06mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:33:40 PM
3	73.75	24.89mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:35:44 PM
4	73.93	24.96mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:37:48 PM

Mean Area 74.22
Mean Conc. 25.05mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

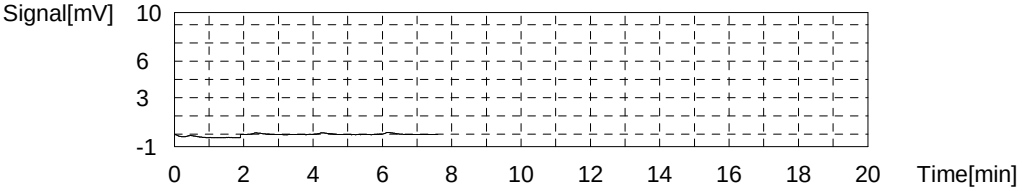
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03924mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.1895	0.02848mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:46:20 PM
2	0.2047	0.03362mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:48:24 PM
3	0.2087	0.03497mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:50:28 PM
4	0.2824	0.05988mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 7:52:32 PM

Mean Area 0.2213
Mean Conc. 0.03924mg/L



Sample

Sample Name: 280-124711-e-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

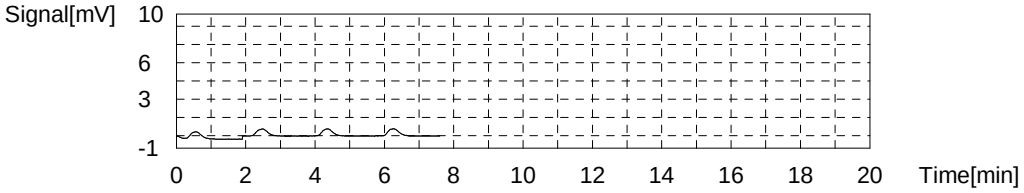
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3690mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.128	0.3457mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:01:04 PM
2	1.216	0.3755mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:03:08 PM
3	1.194	0.3680mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:05:12 PM
4	1.250	0.3870mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:07:15 PM

Mean Area 1.197
Mean Conc. 0.3690mg/L



Sample

Sample Name: 280-124711-e-4 MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

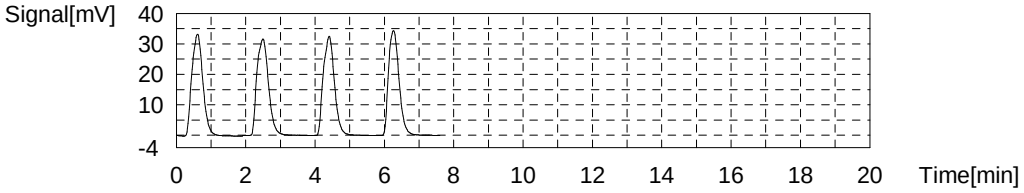
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.94mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	74.90	25.28mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:15:47 PM
2	74.12	25.02mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:17:51 PM
3	73.19	24.70mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:19:55 PM
4	73.36	24.76mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:21:59 PM

Mean Area 73.89
Mean Conc. 24.94mg/L



Sample

Sample Name: 280-124711-e-4 MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

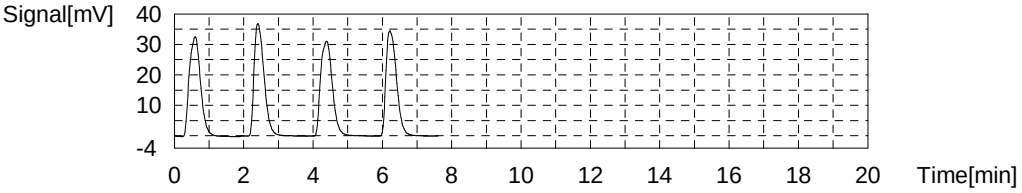
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.97mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	74.79	25.25mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:30:31 PM
2	74.14	25.03mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:32:35 PM
3	73.42	24.78mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:34:39 PM
4	73.59	24.84mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:36:43 PM

Mean Area 73.99
Mean Conc. 24.97mg/L



Sample

Sample Name: 280-124717-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

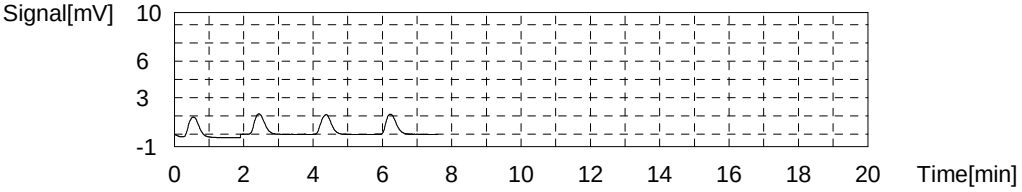
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.104mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.381	1.107mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:45:14 PM
2	3.401	1.114mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:47:18 PM
3	3.331	1.090mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:49:22 PM
4	3.370	1.104mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:51:26 PM

Mean Area 3.371
Mean Conc. 1.104mg/L



Sample

Sample Name: 280-124717-b-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

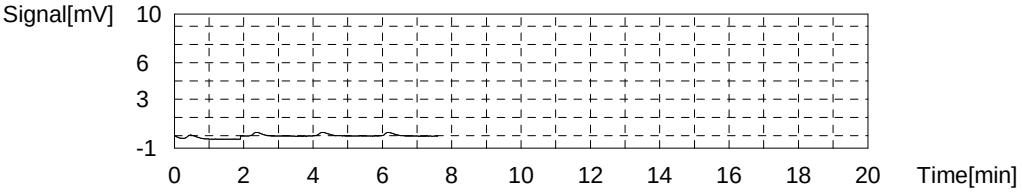
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1349mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4606	0.1201mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 8:59:57 PM
2	0.5242	0.1416mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:02:01 PM
3	0.5209	0.1405mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:04:05 PM
4	0.5117	0.1374mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:06:09 PM

Mean Area 0.5044
Mean Conc. 0.1349mg/L



Sample

Sample Name: 280-124717-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

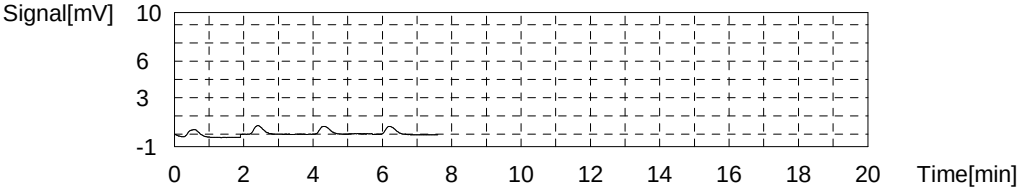
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4101mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.287	0.3995mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:14:41 PM
2	1.347	0.4198mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:16:45 PM
3	1.307	0.4062mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:18:49 PM
4	1.333	0.4150mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:20:52 PM

Mean Area 1.319
Mean Conc. 0.4101mg/L



Sample

Sample Name: 490-175605-d-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

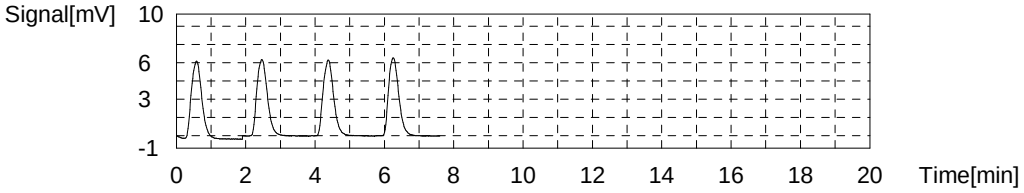
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.427mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.31	4.464mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:29:25 PM
2	13.27	4.450mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:31:29 PM
3	13.08	4.386mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:33:33 PM
4	13.15	4.410mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:35:36 PM

Mean Area 13.20
Mean Conc. 4.427mg/L



Sample

Sample Name: 490-175605-d-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

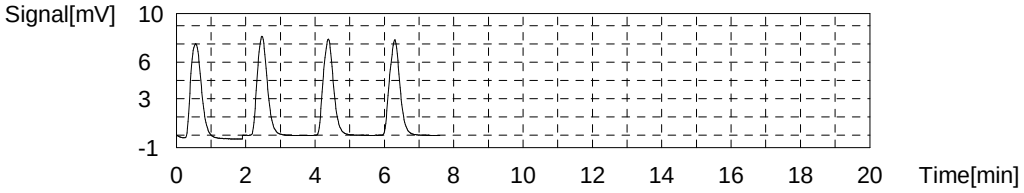
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.561mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.81	5.647mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:44:09 PM
2	16.57	5.566mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:46:13 PM
3	16.33	5.484mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:48:17 PM
4	16.51	5.545mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:50:21 PM

Mean Area 16.56
Mean Conc. 5.561mg/L



Sample

Sample Name: 490-175605-d-2 MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

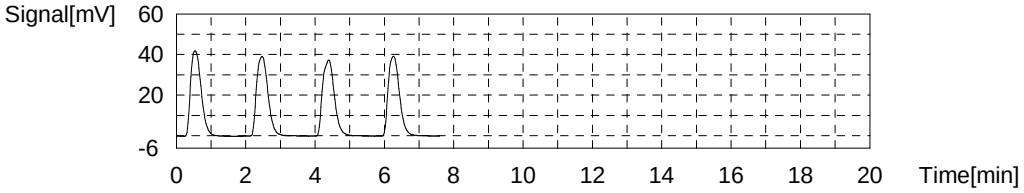
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.23mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.79	30.65mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 9:58:53 PM
2	89.82	30.33mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:00:57 PM
3	88.77	29.97mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:03:01 PM
4	88.78	29.97mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:05:04 PM

Mean Area 89.54
Mean Conc. 30.23mg/L



Sample

Sample Name: 490-175605-d-2 MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

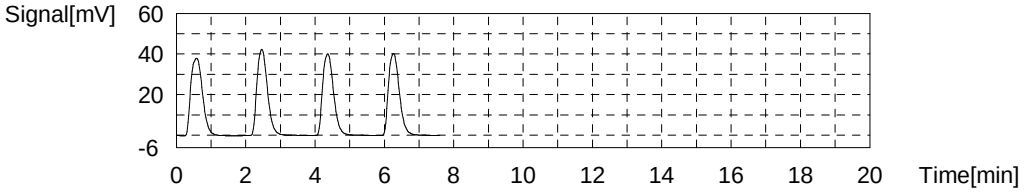
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.20mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.00	30.73mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:13:37 PM
2	89.73	30.30mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:15:41 PM
3	88.27	29.80mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:17:45 PM
4	88.84	30.00mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:19:49 PM

Mean Area 89.46
Mean Conc. 30.20mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

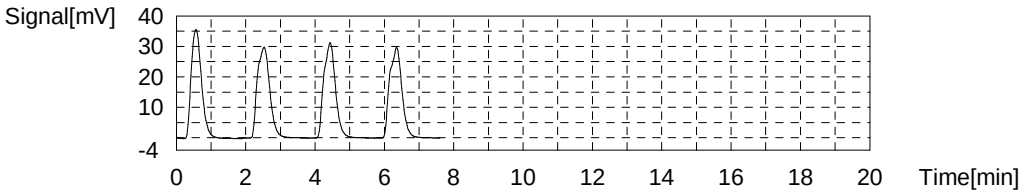
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.09mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.19	25.38mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:28:21 PM
2	74.53	25.16mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:30:25 PM
3	73.78	24.90mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:32:29 PM
4	73.82	24.92mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:34:32 PM

Mean Area 74.33
Mean Conc. 25.09mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

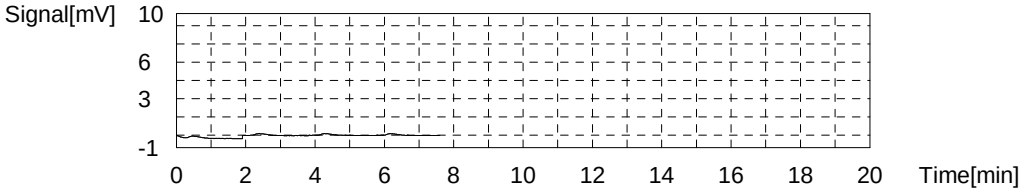
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05462mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2626	0.05319mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:43:05 PM
2	0.2945	0.06397mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:45:09 PM
3	0.2455	0.04741mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:47:13 PM
4	0.2647	0.05390mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:49:16 PM

Mean Area 0.2668
Mean Conc. 0.05462mg/L



Sample

Sample Name: 490-175605-d-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

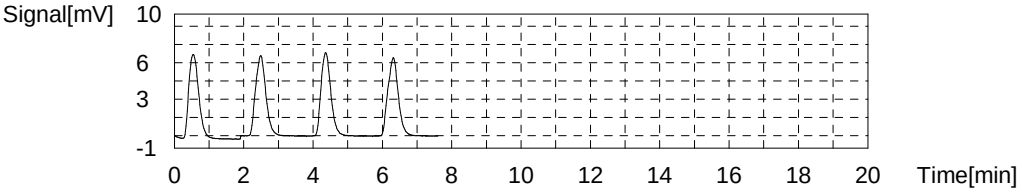
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.569mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.80	4.629mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:57:49 PM
2	13.67	4.585mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 10:59:53 PM
3	13.48	4.521mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:01:57 PM
4	13.54	4.541mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:04:01 PM

Mean Area 13.62
Mean Conc. 4.569mg/L



Sample

Sample Name: 490-175605-d-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

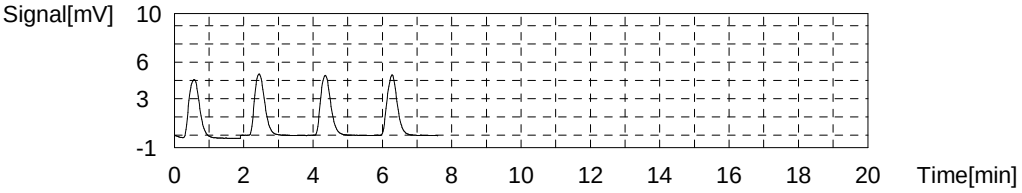
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.406mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.30	3.446mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:12:33 PM
2	10.26	3.433mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:14:37 PM
3	10.07	3.368mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:16:41 PM
4	10.10	3.379mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:18:44 PM

Mean Area 10.18
Mean Conc. 3.406mg/L



Sample

Sample Name: 490-175605-d-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

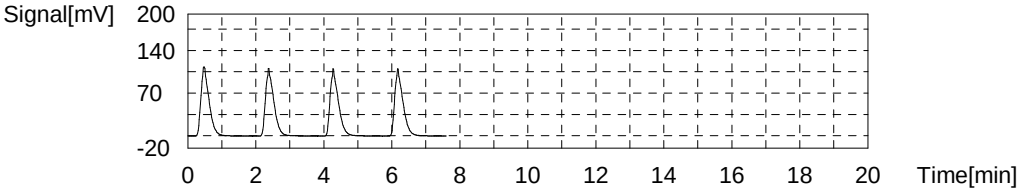
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:63.04mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	189.8	64.12mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:27:17 PM
2	187.8	63.45mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:29:21 PM
3	184.8	62.43mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:31:25 PM
4	184.0	62.16mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:33:29 PM

Mean Area 186.6
Mean Conc. 63.04mg/L



Sample

Sample Name: 490-175605-e-9
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

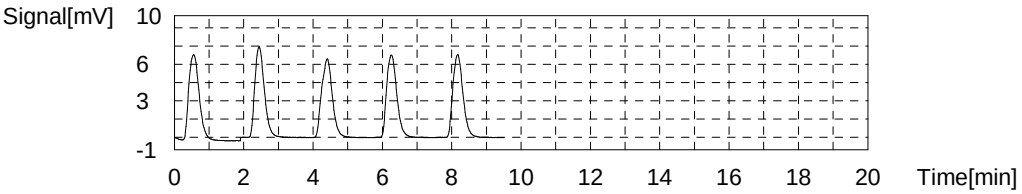
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.696mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.72	4.940mg/L	50uL	1	E	TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:42:01 PM
2	14.33	4.808mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:44:05 PM
3	13.89	4.660mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:46:08 PM
4	13.87	4.653mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:48:12 PM
5	13.90	4.663mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:50:16 PM

Mean Area 14.00
Mean Conc. 4.696mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

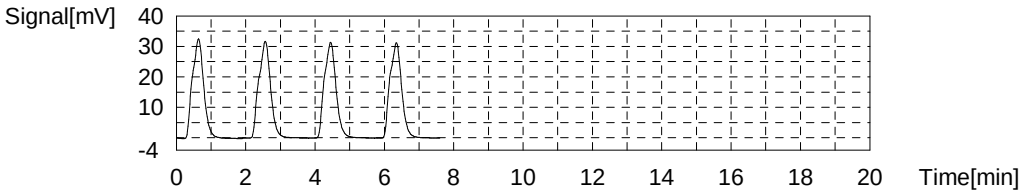
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.21mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.42	25.46mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/1/2019 11:58:48 PM
2	75.25	25.40mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:00:52 AM
3	74.26	25.07mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:02:56 AM
4	73.85	24.93mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:04:59 AM

Mean Area 74.70
Mean Conc. 25.21mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

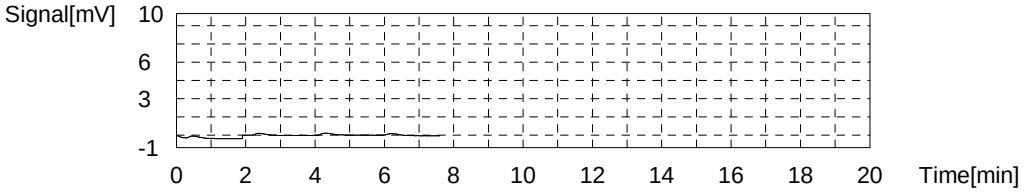
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06403mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3014	0.06631mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:13:32 AM
2	0.2865	0.06127mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:15:36 AM
3	0.2959	0.06445mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:17:40 AM
4	0.2949	0.06411mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:19:43 AM

Mean Area 0.2947
Mean Conc. 0.06403mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

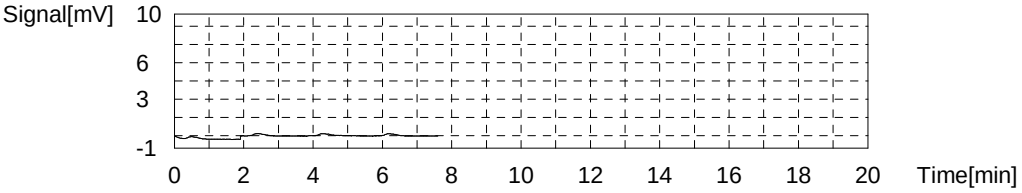
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07732mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2828	0.06002mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:28:16 AM
2	0.3821	0.09359mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:30:20 AM
3	0.3001	0.06587mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:32:24 AM
4	0.3709	0.08980mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:34:27 AM

Mean Area 0.3340
Mean Conc. 0.07732mg/L



Sample

Sample Name: 280-124678-c-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

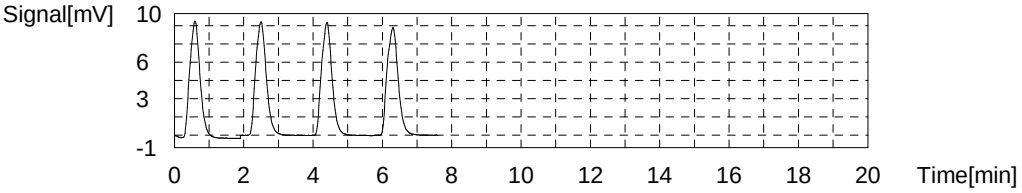
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.630mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.80	6.657mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:43:00 AM
2	19.87	6.681mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:45:04 AM
3	19.52	6.563mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:47:08 AM
4	19.68	6.617mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:49:12 AM

Mean Area 19.72
Mean Conc. 6.630mg/L



Sample

Sample Name: 280-124678-c-2 MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

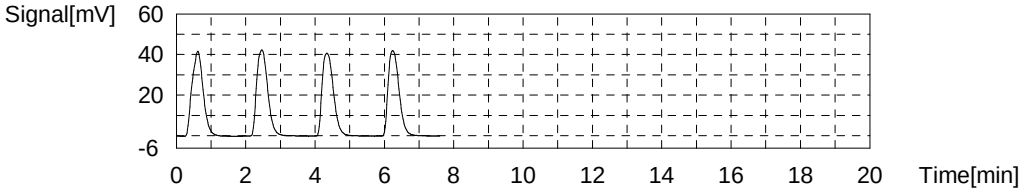
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:31.65mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	95.06	32.10mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:57:44 AM
2	94.41	31.88mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 12:59:48 AM
3	92.87	31.36mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:01:51 AM
4	92.62	31.27mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:03:55 AM

Mean Area 93.74
Mean Conc. 31.65mg/L



Sample

Sample Name: 280-124678-c-2 MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

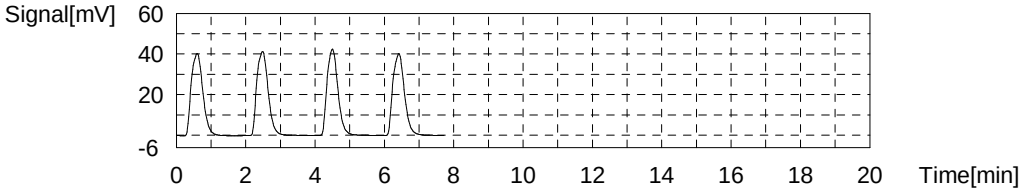
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:31.91mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	95.42	32.22mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:12:28 AM
2	94.77	32.00mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:14:39 AM
3	93.71	31.64mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:16:43 AM
4	94.16	31.79mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:18:46 AM

Mean Area 94.52
Mean Conc. 31.91mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

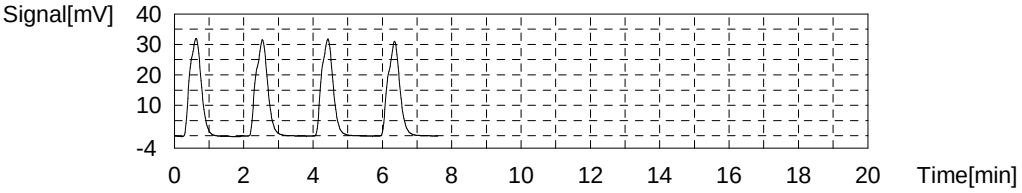
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.15mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.38	25.45mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:27:19 AM
2	74.85	25.27mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:29:23 AM
3	73.78	24.90mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:31:27 AM
4	74.02	24.99mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:33:30 AM

Mean Area 74.51
Mean Conc. 25.15mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

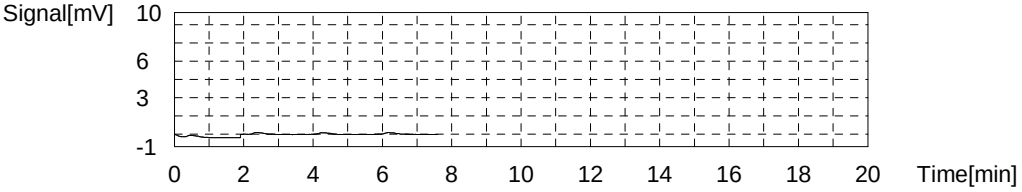
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05150mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2529	0.04991mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:42:03 AM
2	0.2663	0.05444mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:44:07 AM
3	0.2629	0.05329mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:46:11 AM
4	0.2483	0.04836mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:48:14 AM

Mean Area 0.2576
Mean Conc. 0.05150mg/L



Sample

Sample Name: 280-124728-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

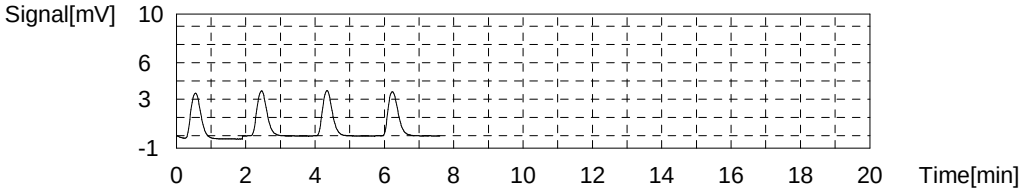
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.447mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.385	2.461mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:56:47 AM
2	7.428	2.475mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 1:58:51 AM
3	7.259	2.418mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:00:55 AM
4	7.308	2.435mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:02:59 AM

Mean Area 7.345
Mean Conc. 2.447mg/L



Sample

Sample Name: 280-124728-a-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

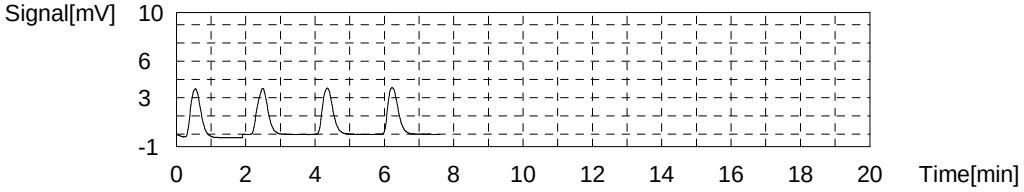
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.659mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.056	2.688mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:11:31 AM
2	8.044	2.684mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:13:35 AM
3	7.885	2.630mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:15:39 AM
4	7.895	2.633mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:17:42 AM

Mean Area 7.970
Mean Conc. 2.659mg/L



Sample

Sample Name: 280-124728-a-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

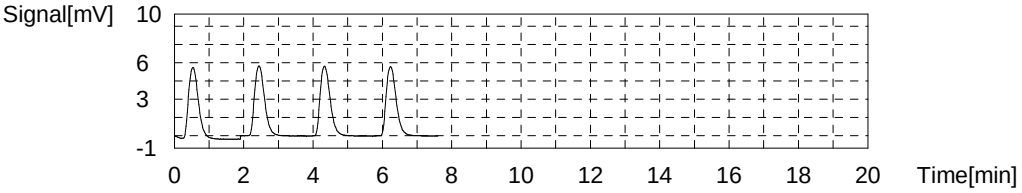
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.832mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.52	3.859mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:26:15 AM
2	11.45	3.835mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:28:19 AM
3	11.44	3.832mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:30:23 AM
4	11.36	3.804mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:32:26 AM

Mean Area 11.44
Mean Conc. 3.832mg/L



Sample

Sample Name: 280-124728-a-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

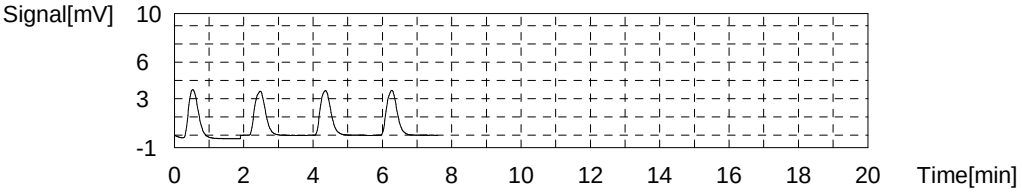
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.612mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.908	2.638mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:40:59 AM
2	7.849	2.618mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:43:03 AM
3	7.761	2.588mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:45:06 AM
4	7.807	2.603mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:47:10 AM

Mean Area 7.831
Mean Conc. 2.612mg/L



Sample

Sample Name: 280-124728-a-9
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

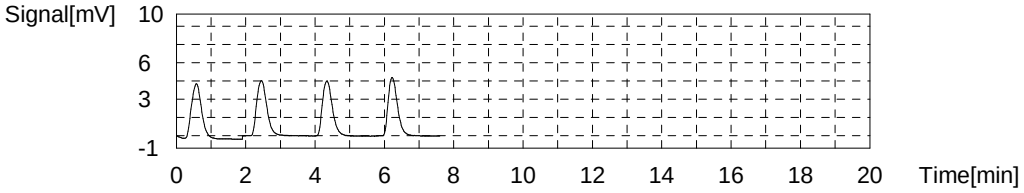
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.029mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.120	3.047mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:55:43 AM
2	9.150	3.057mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:57:47 AM
3	9.010	3.010mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:59:51 AM
4	8.980	3.000mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:01:54 AM

Mean Area 9.065
Mean Conc. 3.029mg/L



Sample

Sample Name: 280-124728-a-10
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

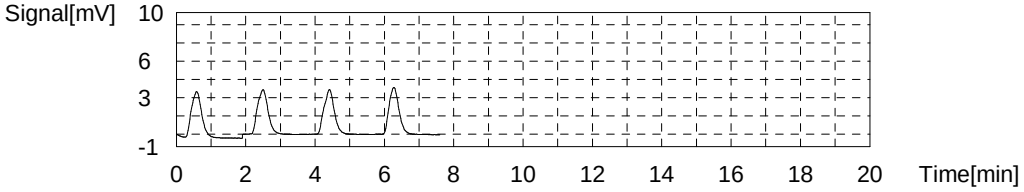
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.570mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.729	2.577mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:10:27 AM
2	7.768	2.590mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:12:31 AM
3	7.611	2.537mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:14:35 AM
4	7.723	2.575mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:16:38 AM

Mean Area 7.708
Mean Conc. 2.570mg/L



Sample

Sample Name: 280-124728-a-11
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

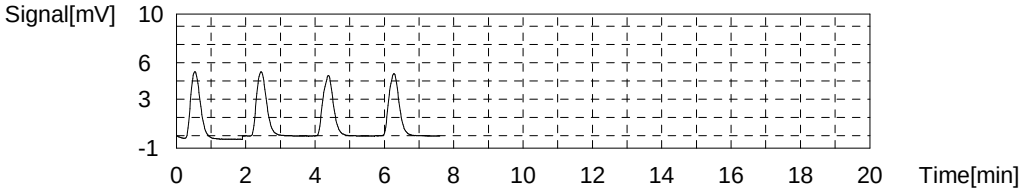
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.529mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.70	3.581mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:25:12 AM
2	10.60	3.548mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:27:16 AM
3	10.36	3.466mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:29:19 AM
4	10.52	3.521mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:31:23 AM

Mean Area 10.55
Mean Conc. 3.529mg/L



Sample

Sample Name: 280-124728-a-12
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

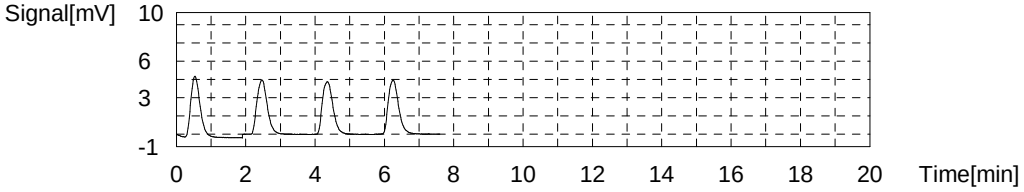
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.091mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.291	3.105mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:39:57 AM
2	9.259	3.094mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:42:01 AM
3	9.234	3.086mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:44:04 AM
4	9.219	3.081mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:46:08 AM

Mean Area 9.251
Mean Conc. 3.091mg/L



Sample

Sample Name: 280-124728-a-13
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

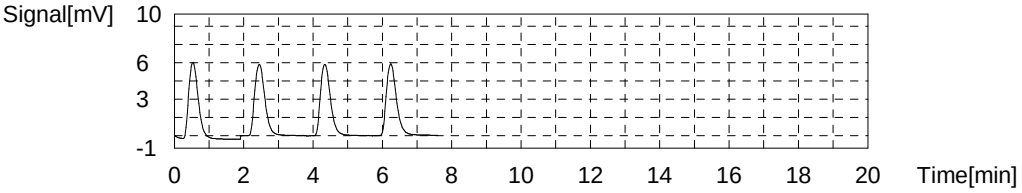
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.983mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.00	4.021mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:54:42 AM
2	11.93	3.997mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:56:46 AM
3	11.68	3.913mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:58:49 AM
4	11.94	4.001mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:00:53 AM

Mean Area 11.89
Mean Conc. 3.983mg/L



Sample

Sample Name: 280-124728-a-14
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

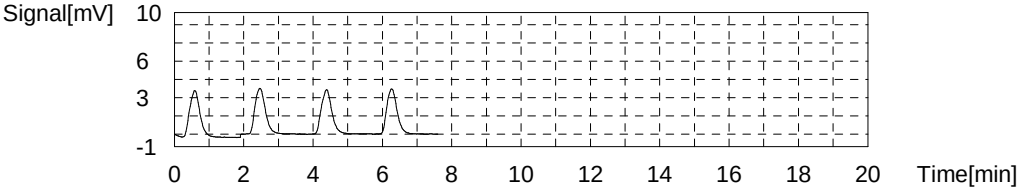
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.583mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.873	2.626mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:09:27 AM
2	7.805	2.603mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:11:31 AM
3	7.627	2.543mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:13:35 AM
4	7.683	2.562mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:15:38 AM

Mean Area 7.747
Mean Conc. 2.583mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

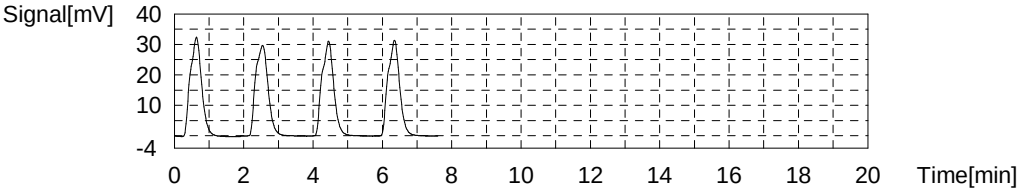
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.16mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.55	25.50mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:24:12 AM
2	74.69	25.21mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:26:16 AM
3	73.80	24.91mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:28:20 AM
4	74.16	25.03mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:30:23 AM

Mean Area 74.55
Mean Conc. 25.16mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

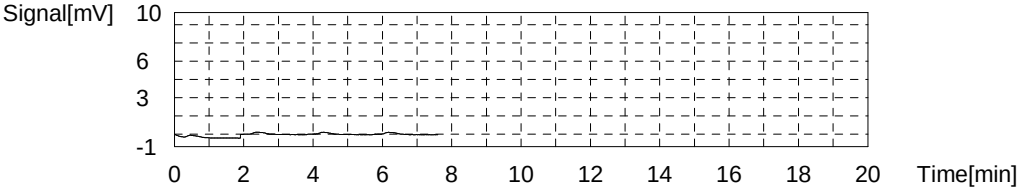
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06839mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2598	0.05224mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:38:57 AM
2	0.3490	0.08240mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:41:01 AM
3	0.2814	0.05955mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:43:04 AM
4	0.3400	0.07935mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:45:08 AM

Mean Area 0.3076
Mean Conc. 0.06839mg/L



Sample

Sample Name: 280-124728-a-15
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

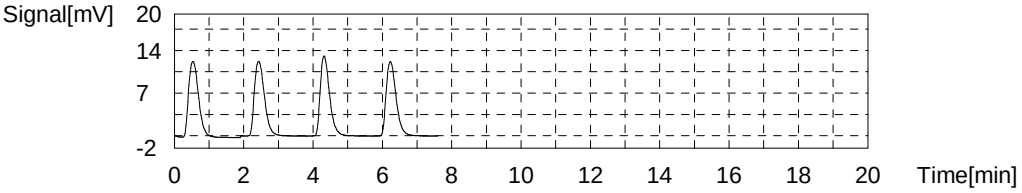
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.336mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	25.12	8.456mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:53:42 AM
2	24.83	8.358mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:55:46 AM
3	24.66	8.300mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:57:49 AM
4	24.45	8.229mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:59:53 AM

Mean Area 24.77
Mean Conc. 8.336mg/L



Sample

Sample Name: 280-124728-a-16
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

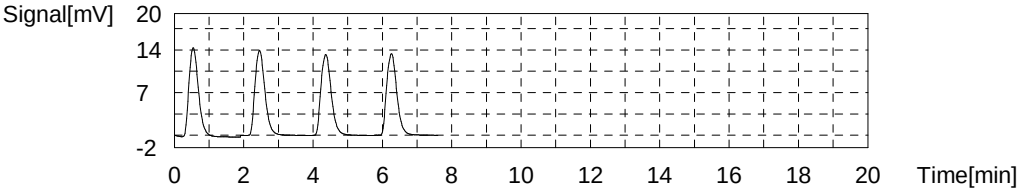
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.363mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	28.11	9.466mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:08:27 AM
2	27.89	9.392mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:10:31 AM
3	27.63	9.304mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:12:34 AM
4	27.59	9.291mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:14:38 AM

Mean Area 27.81
Mean Conc. 9.363mg/L



Sample

Sample Name: 280-124740-c-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

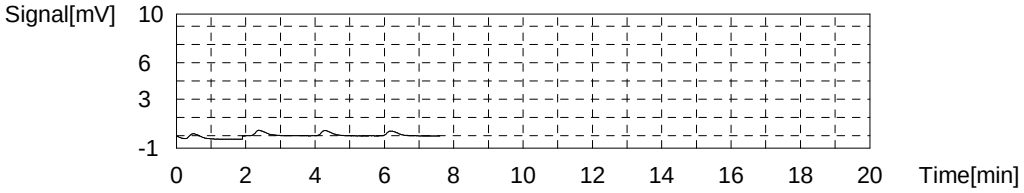
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2457mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8025	0.2357mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:23:12 AM
2	0.8902	0.2653mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:25:16 AM
3	0.8382	0.2478mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:27:19 AM
4	0.7976	0.2340mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:29:23 AM

Mean Area 0.8321
Mean Conc. 0.2457mg/L



Sample

Sample Name: 280-124740-c-2 MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

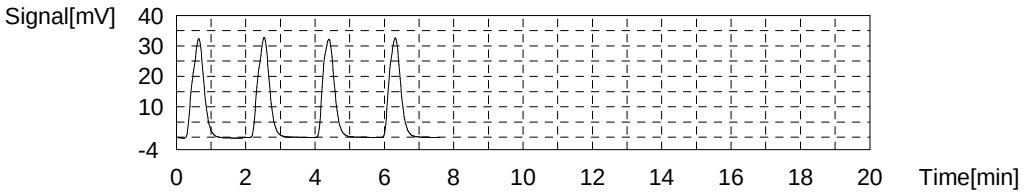
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.29mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.75	25.57mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:37:57 AM
2	75.49	25.48mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:40:01 AM
3	73.88	24.94mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:42:05 AM
4	74.51	25.15mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:44:08 AM

Mean Area 74.91
Mean Conc. 25.29mg/L



Sample

Sample Name: 280-124740-c-2 MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

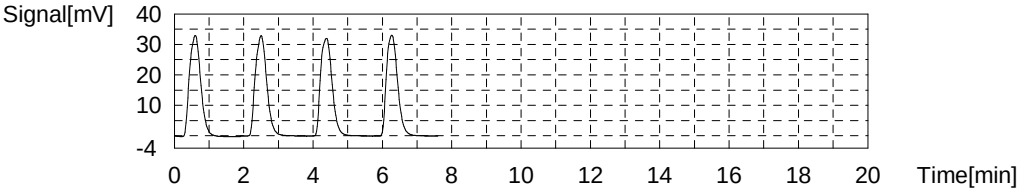
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.36mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.91	25.62mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:52:42 AM
2	75.70	25.55mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:54:46 AM
3	74.41	25.12mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:56:49 AM
4	74.48	25.14mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:58:53 AM

Mean Area 75.13
Mean Conc. 25.36mg/L



Sample

Sample Name: 280-124740-c-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

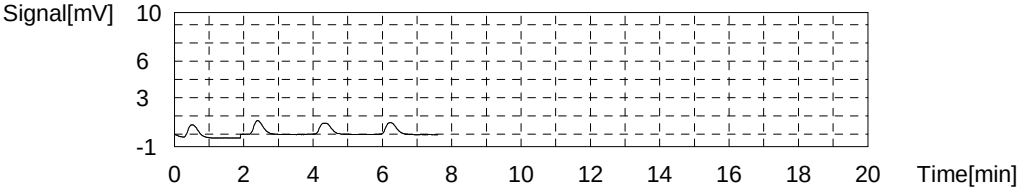
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6482mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.915	0.6118mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:07:27 AM
2	2.059	0.6604mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:09:31 AM
3	2.031	0.6510mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:11:34 AM
4	2.086	0.6696mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:13:38 AM

Mean Area 2.023
Mean Conc. 0.6482mg/L



Sample

Sample Name: 280-124740-c-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

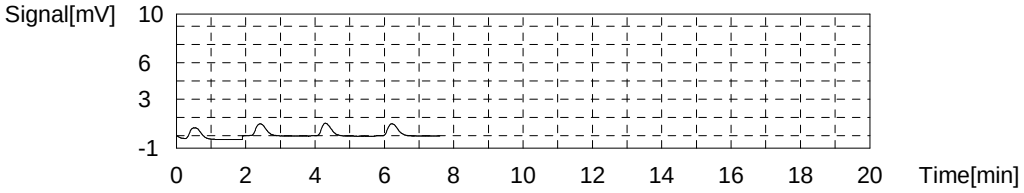
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6330mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.947	0.6226mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:22:12 AM
2	1.980	0.6337mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:24:16 AM
3	1.997	0.6395mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:26:19 AM
4	1.988	0.6364mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:28:23 AM

Mean Area 1.978
Mean Conc. 0.6330mg/L



Sample

Sample Name: 280-124740-c-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

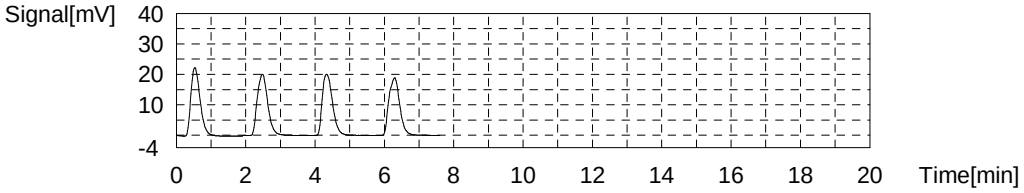
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.13mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	42.17	14.22mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:36:57 AM
2	42.39	14.29mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:39:01 AM
3	41.54	14.01mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:41:04 AM
4	41.54	14.01mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:43:08 AM

Mean Area 41.91
Mean Conc. 14.13mg/L



Sample

Sample Name: 280-124740-c-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

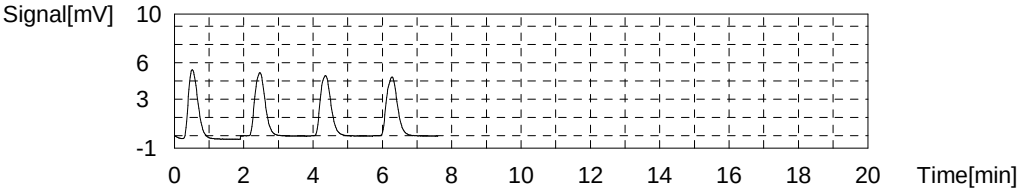
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.568mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.85	3.632mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:51:42 AM
2	10.75	3.598mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:53:46 AM
3	10.52	3.521mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:55:50 AM
4	10.52	3.521mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:57:53 AM

Mean Area 10.66
Mean Conc. 3.568mg/L



Sample

Sample Name: 280-124740-c-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

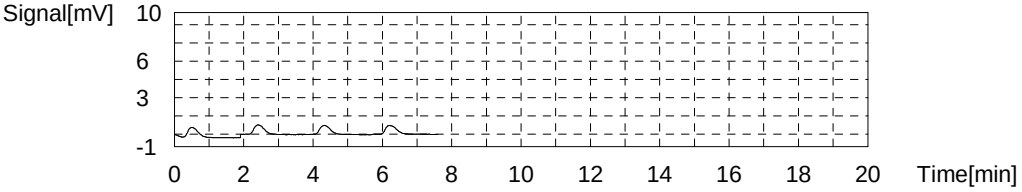
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4890mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.573	0.4961mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:06:27 AM
2	1.557	0.4907mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:08:30 AM
3	1.522	0.4789mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:10:34 AM
4	1.556	0.4904mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:12:38 AM

Mean Area 1.552
Mean Conc. 0.4890mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

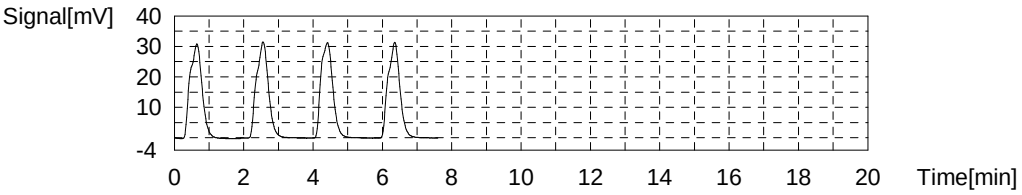
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.49mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.22	25.73mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:21:12 AM
2	76.13	25.70mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:23:16 AM
3	74.79	25.25mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:25:19 AM
4	74.93	25.29mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:27:23 AM

Mean Area 75.52
Mean Conc. 25.49mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

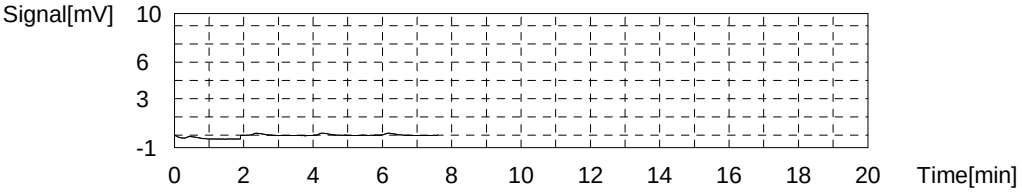
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06525mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2692	0.05542mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:35:57 AM
2	0.3208	0.07286mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:38:01 AM
3	0.3131	0.07026mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:40:04 AM
4	0.2900	0.06245mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:42:08 AM

Mean Area 0.2983
Mean Conc. 0.06525mg/L



Sample

Sample Name: 280-124740-c-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

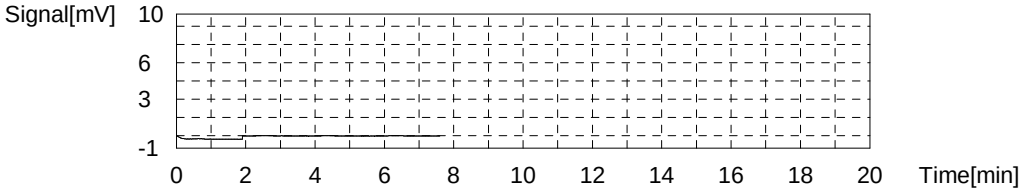
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.03558mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	-0.03558mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:50:43 AM
2	0.000	-0.03558mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:52:47 AM
3	0.000	-0.03558mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:54:50 AM
4	0.000	-0.03558mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:56:54 AM

Mean Area 0.000
Mean Conc. -0.03558mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

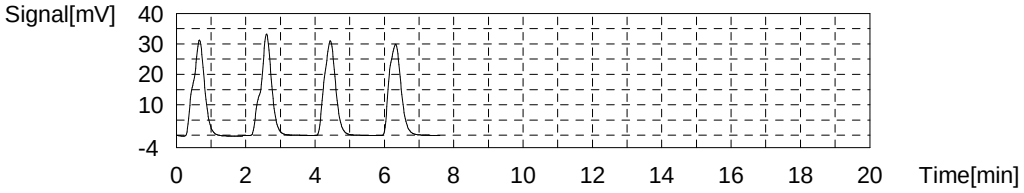
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.32mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.67	24.53mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:05:29 AM
2	72.53	24.48mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:07:33 AM
3	70.82	23.90mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:09:37 AM
4	72.19	24.37mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:11:41 AM

Mean Area 72.05
Mean Conc. 24.32mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

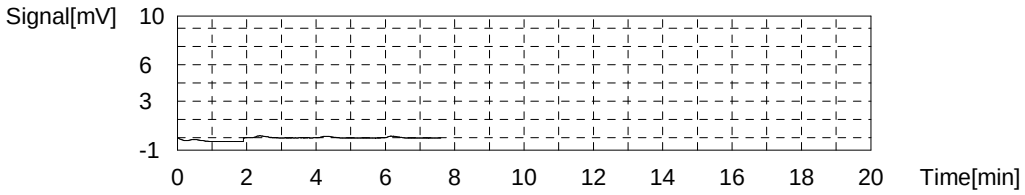
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04352mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.1757	0.02382mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:20:15 AM
2	0.2936	0.06367mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:22:19 AM
3	0.2364	0.04433mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:24:22 AM
4	0.2303	0.04227mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:26:26 AM

Mean Area	0.2340
Mean Conc.	0.04352mg/L



TOC-V Cal Curve Information
C:¥TOC3201¥CalCurves¥TOC3.2019_06_24_10_12_13.cal

Date of Creation 11:17:07 AM 6/24/2019
User wetchemd
System TOC-V cpn 3

Cal. Curve

Sample Name: CAL 110716
Sample ID: Untitled
Object ID 0A-103108-04335027-13415A0166CC-0000
Cal. Curve: TOC3.2019_06_24_10_12_13.cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.2765	50uL	1	*******		6/24/2019 10:19:54 A
2	0.3484	50uL	1	*******		6/24/2019 10:21:58 A

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 0.3125
SD Area 0.05084
CV Area 16.27%
Vial 1

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.311	50uL	1	*******		6/24/2019 10:30:32 A
2	3.309	50uL	1	*******		6/24/2019 10:32:36 A

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 3.310
SD Area 0.00141
CV Area 0.04%
Vial 2

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	14.36	50uL	1	*******	E	6/24/2019 10:41:10 A
2	14.95	50uL	1	*******		6/24/2019 10:43:14 A
3	14.85	50uL	1	*******		6/24/2019 10:45:18 A

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 14.90
SD Area 0.07071
CV Area 0.47%
Vial 3

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	29.38	50uL	1	*******		6/24/2019 10:53:47 A
2	29.94	50uL	1	*******		6/24/2019 10:55:51 A

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 29.66
SD Area 0.3960
CV Area 1.34%
Vial 4

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	72.31	50uL	1	*******		6/24/2019 11:04:25 A
2	74.10	50uL	1	*******		6/24/2019 11:06:29 A

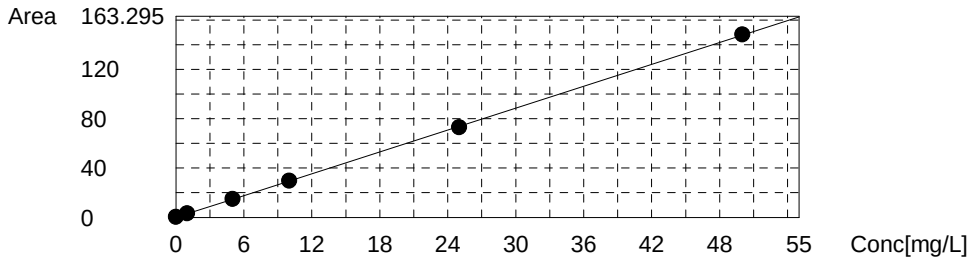
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 73.21
SD Area 1.266
CV Area 1.73%
Vial 5

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	147.7	50uL	1	*******		6/24/2019 11:15:03 A
2	149.2	50uL	1	*******		6/24/2019 11:17:07 A

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 148.5
SD Area 1.061
CV Area 0.71%
Vial 6

Slope: 2.958
Intercept 0.1052
r^2 0.9999
r 1.0000
Zero Shift No



JM 7/2/19 pH

	Analysis	Sample Name	Sample ID	Manual Diluti	~~Result~~	Notes	Date / Time	Vial
1*	NPOC	ICV		1.000	<2			1
2*	NPOC	ICB		1.000	<2			2
3*	NPOC	lcs 280-463396/1-a		1.000	<2			3
4*	NPOC	mb 280-463396/2-a		1.000	<2			4
5*	NPOC	TIC		1.000	<2			5
6*	NPOC	280-124912-f-4-a		1.000	8			6
7*	NPOC	280-124912-f-4-b ms		1.000	8			7
8*	NPOC	280-124912-f-4-c msd		1.000	8			8
9*	NPOC	280-124912-f-5-a		1.000	6			9
10*	NPOC	280-124912-f-5-b ms		1.000	8			10
11*	NPOC	280-124912-f-5-c msd		1.000	8			11
12*	NPOC	280-124912-f-9-a		1.000	6			12
13*	NPOC	280-124912-f-10-a		1.000	8			13
14*	NPOC	280-124912-f-11-a		1.000	8			14
15*	NPOC	CCV		1.000	<2			15
16*	NPOC	CCB		1.000	<2			16
17*	NPOC	280-124912-f-12-c		1.000	8			17
18*	NPOC	280-124912-f-12-d ms		1.000	8			18
19*	NPOC	280-124912-f-12-e ms		1.000	8			19
20*	NPOC	LCS		1.000	<2			20
21*	NPOC	LCSD		1.000	<2			21
22*	NPOC	MB		1.000	<2			22
23*	NPOC	TIC		1.000	<2			23
24*	NPOC	280-124691-g-1		1.000	<2			24
25*	NPOC	280-124691-h-3		1.000	<2			25
26*	NPOC	CCV		1.000	<2			26
27*	NPOC	CCB		1.000	<2			27
28*	NPOC	280-124691-i-5		1.000	<2			28
29*	NPOC	280-124691-i-5 MS		1.000	<2			29
30*	NPOC	280-124691-i-5 MSD		1.000	<2			30
31*	NPOC	280-124691-f-7		1.000	<2			31
32*	NPOC	280-124740-c-5		1.000	<2			32
33*	NPOC	280-124740-c-5 MS		1.000	<2			33
34*	NPOC	280-124740-c-5 MSD		1.000	<2			34
35*	NPOC	280-124740-c-6		1.000	<2			35
36*	NPOC	280-124740-c-6 MS		1.000	<2			36
37*	NPOC	280-124740-c-6 MSD		1.000	<2			37
38*	NPOC	CCV		1.000	<2			38
39*	NPOC	CCB		1.000	<2			39
40*	NPOC	280-124740-c-9		1.000	<2			40
41*	NPOC	280-124740-c-10		1.000	<2			41
42*	NPOC	280-124740-c-11		1.000	<2			42
43*	NPOC	280-124740-c-12		1.000	<2			43
44*	NPOC	280-124740-c-13	JM 7/2/19	1.000	<2			44
45*	NPOC	280-124830-n-1		2x ~~1.000~~	<2	yellow, stinky		45
46*	NPOC	280-124830-n-2		20x ~~10x~~ ~~1.000~~	<2	yellow		46
47*	NPOC	280-124830-n-3		20x ~~1.000~~	<2	yellow		47
48*	NPOC	280-124830-m-4		20x ~~1.000~~	<2	yellow		48
49*	NPOC	280-124830-n-5		1.000	<2			49
50*	NPOC	CCV		1.000	<2			50
51*	NPOC	CCB		1.000	<2			51

9060 Diss. Filter 5310

JM 7/2/19
PH

9060

	Analysis	Sample Name	Sample ID	Manual Diluti	~~Result~~	Notes	Date / Time	Vial
52*	NPOC	280-124713-b-2		1.000	<2			52
53*	NPOC	280-124713-c-4		1.000	<2			53
54*	NPOC	280-124713-b-7		1.000	<2			54
55*	NPOC	280-124713-c-8		1.000	<2			55
56*	NPOC	LCS		1.000	<2			56
57*	NPOC	LCSD		1.000	<2			57
58*	NPOC	MB		1.000	<2			58
59*	NPOC	TIC		1.000	<2			59
60*	NPOC	280-124717-b-4		1.000	<2			60
61*	NPOC	280-124717-b-5		1.000	<2			61
62*	NPOC	CCV		1.000	<2			62
63*	NPOC	CCB		1.000	<2			63
64*	NPOC	280-124717-b-6		1.000	<2			64
65*	NPOC	280-124717-b-6 MS		1.000	<2			65
66*	NPOC	280-124717-b-6 MSD		1.000	<2			66
67*	NPOC	280-124717-b-7		1.000	<2			67
68*	NPOC	280-124717-b-8		1.000	<2			68
69*	NPOC	280-124719-b-1		2x ~~1.000~~	<2	yellow		69
70*	NPOC	280-124719-b-2		2x ~~1.000~~	<2	yellow		70
71*	NPOC	280-124719-b-3		2x ~~1.000~~	<2	yellow		71
72*	NPOC	280-124719-b-4		2x ~~1.000~~	4	yellow		72
73*	NPOC	280-124724-b-2		1.000	<2			73
74*	NPOC	CCV		1.000	<2			74
75*	NPOC	CCB		1.000	<2			75
76*	NPOC	280-124838-a-4		1.000	<2			76
77*	NPOC	490-175605-d-5		2x ~~1.000~~	<2	re-run		77
78*	NPOC	490-175605-d-6		1.000	<2			78
79*	NPOC	280-124894-b-8		1.000	<2			79
80*	NPOC	280-124894-b-9		1.000	<2			80
81*	NPOC	280-124894-b-10		1.000	<2			81
82*	NPOC	280-124894-a-11		1.000	7			82
83*	NPOC	280-124894-b-12		1.000	<2			83
84*	NPOC	280-124894-b-13		1.000	<2			84
85*	NPOC	CCV		1.000	<2			85
86*	NPOC	CCB		1.000	<2			86
87*	NPOC	280-124815-d-1		1.000	<2			87
88*	NPOC	280-124815-d-1 MS		1.000	<2			88
89*	NPOC	280-124815-d-1 MSD		1.000	<2			89
90*	NPOC	CCV		1.000	<2			90
91*	NPOC	CCB		1.000	<2			91

	Analysis	Sample Name	Sample ID	Manual Diluti	Result	Notes	Date / Time	Vial
1	NPOC	ICV		1.000	NPOC:19.8		7/2/2019 3:01:4	1
2	NPOC	ICB		1.000	NPOC:-0.02		7/2/2019 3:16:2	2
3	NPOC	lcs 280-463396/1-a		1.000	NPOC:24.2		7/2/2019 3:31:0	3
4	NPOC	mb 280-463396/2-a		1.000	NPOC:0.18		7/2/2019 3:47:5	4
5	NPOC	TIC		1.000	NPOC:0.06		7/2/2019 4:02:3	5
6	NPOC	280-124912-f-4-a		1.000	NPOC:3.84		7/2/2019 4:17:2	6
7	NPOC	280-124912-f-4-b ms		1.000	NPOC:28.1		7/2/2019 4:32:1	7
8	NPOC	280-124912-f-4-c msd		1.000	NPOC:28.0		7/2/2019 4:46:5	8
9	NPOC	280-124912-f-5-a		1.000	NPOC:4.67		7/2/2019 5:01:3	9
10	NPOC	280-124912-f-5-b ms		1.000	NPOC:28.8		7/2/2019 5:16:2	10
11	NPOC	280-124912-f-5-c msd		1.000	NPOC:28.9		7/2/2019 5:31:0	11
12	NPOC	280-124912-f-9-a		1.000	NPOC:5.48		7/2/2019 5:45:4	12
13	NPOC	280-124912-f-10-a		1.000	NPOC:233.		7/2/2019 6:08:0	13
14	NPOC	280-124912-f-11-a		1.000	NPOC:4.46		7/2/2019 6:24:5	14
15	NPOC	CCV		1.000	NPOC:25.3		7/2/2019 6:39:3	15
16	NPOC	CCB		1.000	NPOC:0.09		7/2/2019 6:54:1	16
17	NPOC	280-124912-f-12-c		1.000	NPOC:6.18		7/2/2019 7:08:5	17
18	NPOC	280-124912-f-12-d ms		1.000	NPOC:30.5		7/2/2019 7:23:4	18
19	NPOC	280-124912-f-12-e ms		1.000	NPOC:30.5		7/2/2019 7:38:2	19
20	NPOC	LCS		1.000	NPOC:25.1		7/2/2019 7:53:1	20
21	NPOC	LCSD		1.000	NPOC:25.1		7/2/2019 8:07:5	21
22	NPOC	MB		1.000	NPOC:0.06		7/2/2019 8:22:3	22
23	NPOC	TIC		1.000	NPOC:0.06		7/2/2019 8:37:2	23
24	NPOC	280-124691-g-1		1.000	NPOC:1.07		7/2/2019 8:52:0	24
25	NPOC	280-124691-h-3		1.000	NPOC:3.20		7/2/2019 9:06:4	25
26	NPOC	CCV		1.000	NPOC:24.9		7/2/2019 9:21:3	26
27	NPOC	CCB		1.000	NPOC:0.04		7/2/2019 9:36:1	27
28	NPOC	280-124691-i-5		1.000	NPOC:2.86		7/2/2019 9:50:5	28
29	NPOC	280-124691-i-5 MS		1.000	NPOC:27.8		7/2/2019 10:05:	29
30	NPOC	280-124691-i-5 MSD		1.000	NPOC:28.0		7/2/2019 10:20:	30
31	NPOC	280-124691-f-7		1.000	NPOC:0.15		7/2/2019 10:35:	31
32	NPOC	280-124740-c-5		1.000	NPOC:13.8		7/2/2019 10:49:	32
33	NPOC	280-124740-c-5 MS		1.000	NPOC:38.8		7/2/2019 11:04:	33
34	NPOC	280-124740-c-5 MSD		1.000	NPOC:39.1		7/2/2019 11:19:	34
35	NPOC	280-124740-c-6		1.000	NPOC:3.57		7/2/2019 11:34:	35
36	NPOC	280-124740-c-6 MS		1.000	NPOC:28.7		7/2/2019 11:49:	36
37	NPOC	280-124740-c-6 MSD		1.000	NPOC:28.8		7/3/2019 12:03:	37
38	NPOC	CCV		1.000	NPOC:25.2		7/3/2019 12:18:	38
39	NPOC	CCB		1.000	NPOC:0.07		7/3/2019 12:33:	39
40	NPOC	280-124740-c-9		1.000	NPOC:1.99		7/3/2019 12:48:	40
41	NPOC	280-124740-c-10		1.000	NPOC:4.43		7/3/2019 1:02:5	41
42	NPOC	280-124740-c-11		1.000	NPOC:5.49		7/3/2019 1:17:3	42
43	NPOC	280-124740-c-12		1.000	NPOC:0.80		7/3/2019 1:32:2	43
44	NPOC	280-124740-c-13		1.000	NPOC:1.09		7/3/2019 1:47:0	44
45	NPOC	280-124830-n-1		2.000	NPOC:408.		7/3/2019 2:09:2	45
46	NPOC	280-124830-n-2		20.00	NPOC:551.		7/3/2019 2:24:0	46
47	NPOC	280-124830-n-3		20.00	NPOC:1405		7/3/2019 2:40:5	47
48	NPOC	280-124830-m-4		20.00	NPOC:470.		7/3/2019 2:55:3	48
49	NPOC	280-124830-n-5		1.000	NPOC:25.8		7/3/2019 3:10:2	49
50	NPOC	CCV		1.000	NPOC:24.6		7/3/2019 3:25:0	50
51	NPOC	CCB		1.000	NPOC:0.10		7/3/2019 3:39:5	51
52	NPOC	280-124713-b-2		1.000	NPOC:2.65		7/3/2019 3:54:3	52
53	NPOC	280-124713-c-4		1.000	NPOC:2.04		7/3/2019 4:11:2	53

	Analysis	Sample Name	Sample ID	Manual Diluti	Result	Notes	Date / Time	Vial
54	NPOC	280-124713-b-7		1.000	NPOC:4.87		7/3/2019 4:26:0	54
55	NPOC	280-124713-c-8		1.000	NPOC:5.19		7/3/2019 4:40:5	55
56	NPOC	LCS		1.000	NPOC:24.3		7/3/2019 4:55:3	56
57	NPOC	LCSD		1.000	NPOC:24.3		7/3/2019 5:10:3	57
58	NPOC	MB		1.000	NPOC:0.08		7/3/2019 5:25:1	58
59	NPOC	TIC		1.000	NPOC:0.10		7/3/2019 5:40:0	59
60	NPOC	280-124717-b-4		1.000	NPOC:1.30		7/3/2019 5:54:4	60
61	NPOC	280-124717-b-5		1.000	NPOC:1.03		7/3/2019 6:09:3	61
62	NPOC	CCV		1.000	NPOC:25.0		7/3/2019 6:24:1	62
63	NPOC	CCB		1.000	NPOC:0.07		7/3/2019 6:39:0	63
64	NPOC	280-124717-b-6		1.000	NPOC:2.82		7/3/2019 6:53:4	64
65	NPOC	280-124717-b-6 MS		1.000	NPOC:27.2		7/3/2019 7:08:3	65
66	NPOC	280-124717-b-6 MSD		1.000	NPOC:27.3		7/3/2019 7:23:1	66
67	NPOC	280-124717-b-7		1.000	NPOC:2.82		7/3/2019 7:38:0	67
68	NPOC	280-124717-b-8		1.000	NPOC:0.33		7/3/2019 7:52:4	68
69	NPOC	280-124719-b-1		2.000	NPOC:144.		7/3/2019 8:09:3	69
70	NPOC	280-124719-b-2		2.000	NPOC:268.		7/3/2019 8:32:5	70
71	NPOC	280-124719-b-3		2.000	NPOC:300.		7/3/2019 8:56:0	71
72	NPOC	280-124719-b-4		2.000	NPOC:137.		7/3/2019 9:12:4	72
73	NPOC	280-124724-b-2		1.000	NPOC:0.92		7/3/2019 9:31:3	73
74	NPOC	CCV		1.000	NPOC:25.4		7/3/2019 9:46:1	74
75	NPOC	CCB		1.000	NPOC:0.13		7/3/2019 10:01:	75
76	NPOC	280-124838-a-4		1.000	NPOC:3.93		7/3/2019 10:15:	76
77	NPOC	490-175605-d-5		2.000	NPOC:61.2		7/3/2019 10:30:	77
78	NPOC	490-175605-d-6		1.000	NPOC:4.53		7/3/2019 10:45:	78
79	NPOC	280-124894-b-8		1.000	NPOC:4.59		7/3/2019 11:00:	79
80	NPOC	280-124894-b-9		1.000	NPOC:4.60		7/3/2019 11:14:	80
81	NPOC	280-124894-b-10		1.000	NPOC:2.41		7/3/2019 11:29:	81
82	NPOC	280-124894-a-11		1.000	NPOC:0.65		7/3/2019 11:44:	82
83	NPOC	280-124894-b-12		1.000	NPOC:6.39		7/3/2019 11:59:	83
84	NPOC	280-124894-b-13		1.000	NPOC:0.23		7/3/2019 12:13:	84
85	NPOC	CCV		1.000	NPOC:25.3		7/3/2019 12:28:	85
86	NPOC	CCB		1.000	NPOC:0.14		7/3/2019 12:43:	86
87	NPOC	280-124815-d-1		1.000	NPOC:1.08		7/3/2019 12:58:	87
88	NPOC	280-124815-d-1 MS		1.000	NPOC:25.5		7/3/2019 1:13:0	88
89	NPOC	280-124815-d-1 MSD		1.000	NPOC:25.6		7/3/2019 1:27:4	89
90	NPOC	CCV		1.000	NPOC:25.3		7/3/2019 1:42:3	90
91	NPOC	CCB		1.000	NPOC:0.13		7/3/2019 1:57:2	91

Instr.Information

System	TOC-V cpn 3
Instrument Options	TOC/ASI/
Catalyst	Regular Sensitivity

Sample

Sample Name:	ICV
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

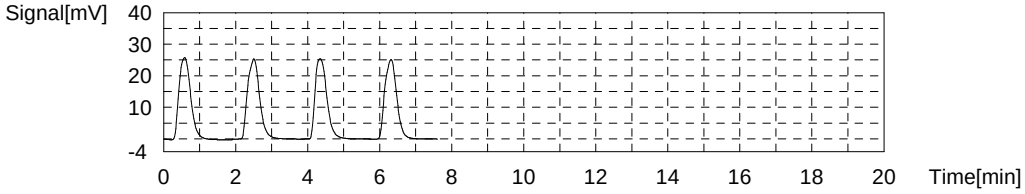
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.86mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	59.56	20.10mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:55:30 PM
2	59.49	20.07mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:57:33 PM
3	57.96	19.56mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 2:59:37 PM
4	58.38	19.70mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:01:41 PM

Mean Area 58.85
Mean Conc. 19.86mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

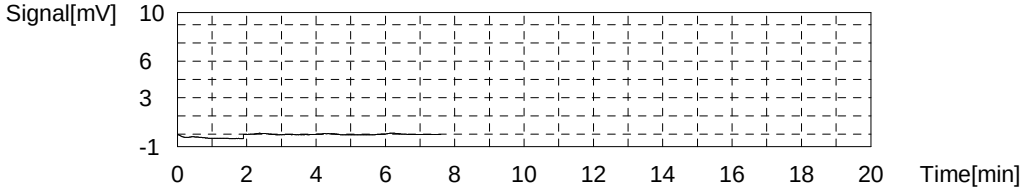
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02412mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	-0.03558mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:10:13 PM
2	0.000	-0.03558mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:12:16 PM
3	0.000	-0.03558mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:14:20 PM
4	0.1355	0.01023mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:16:24 PM

Mean Area 0.03388
Mean Conc. -0.02412mg/L



Sample

Sample Name: lcs 280-463396/1-a
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

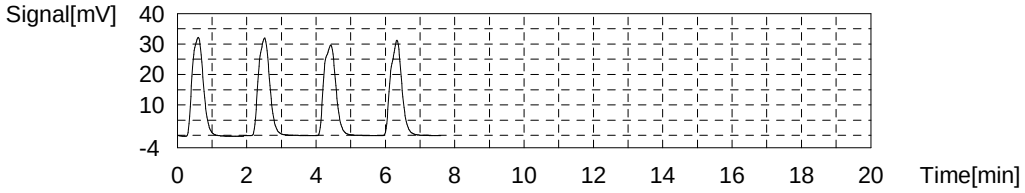
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.28mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.92	24.61mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:24:55 PM
2	72.46	24.46mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:26:59 PM
3	71.36	24.09mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:29:03 PM
4	70.98	23.96mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:31:07 PM

Mean Area 71.93
Mean Conc. 24.28mg/L



Sample

Sample Name: mb 280-463396/2-a
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

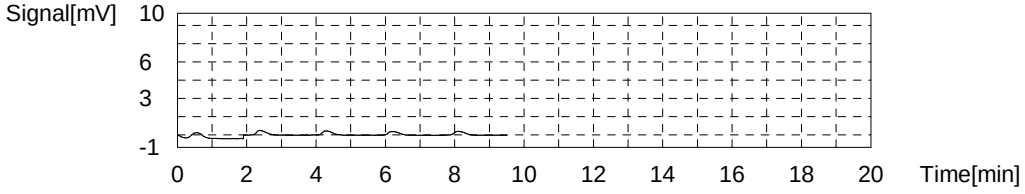
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1834mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8834	0.2630mg/L	50uL	1	E	TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:39:39 PM
2	0.6974	0.2002mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:41:42 PM
3	0.6364	0.1795mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:43:46 PM
4	0.6467	0.1830mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:45:50 PM
5	0.6104	0.1708mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:47:54 PM

Mean Area 0.6477
Mean Conc. 0.1834mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

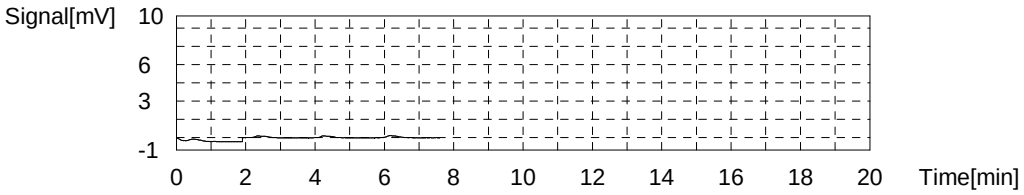
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06561mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2693	0.05546mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:56:25 PM
2	0.2914	0.06293mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 3:58:28 PM
3	0.2875	0.06161mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:00:32 PM
4	0.3491	0.08243mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:02:36 PM

Mean Area 0.2993
Mean Conc. 0.06561mg/L



Sample

Sample Name: 280-124912-f-4-a
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

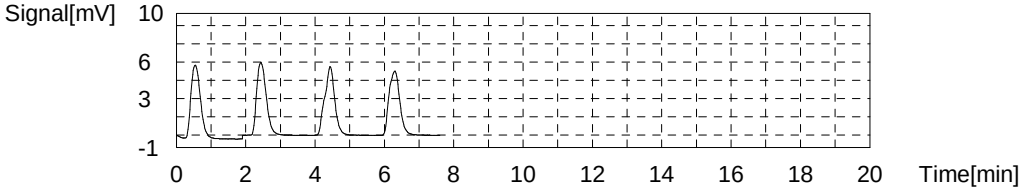
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.843mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.55	3.869mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:11:08 PM
2	11.54	3.865mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:13:12 PM
3	11.34	3.798mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:15:16 PM
4	11.47	3.842mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:17:20 PM

Mean Area 11.48
Mean Conc. 3.843mg/L



Sample

Sample Name: 280-124912-f-4-b ms
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

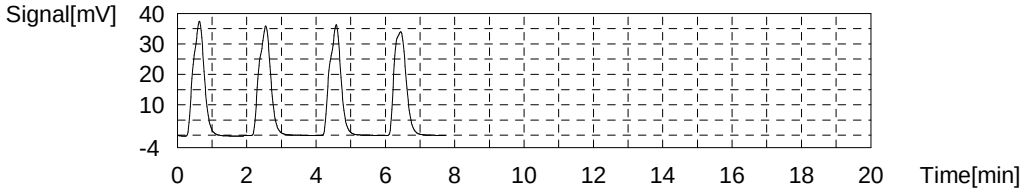
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.19mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	84.55	28.54mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:25:52 PM
2	84.19	28.42mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:28:03 PM
3	82.48	27.85mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:30:07 PM
4	82.75	27.94mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:32:11 PM

Mean Area 83.49
Mean Conc. 28.19mg/L



Sample

Sample Name: 280-124912-f-4-c msd
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

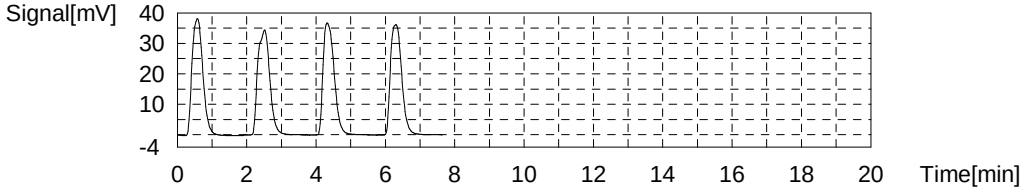
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.02mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	84.28	28.45mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:40:42 PM
2	83.14	28.07mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:42:46 PM
3	82.33	27.79mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:44:52 PM
4	82.29	27.78mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:46:56 PM

Mean Area 83.01
Mean Conc. 28.02mg/L



Sample

Sample Name: 280-124912-f-5-a
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

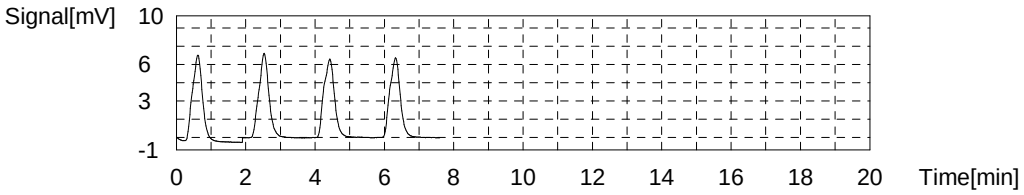
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.675mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.24	4.778mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:55:28 PM
2	14.01	4.700mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:57:31 PM
3	13.81	4.633mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 4:59:35 PM
4	13.68	4.589mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:01:39 PM

Mean Area 13.94
Mean Conc. 4.675mg/L



Sample

Sample Name: 280-124912-f-5-b ms
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

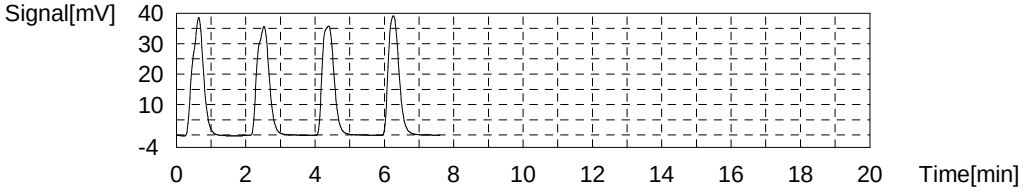
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.84mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	86.52	29.21mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:10:11 PM
2	85.94	29.01mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:12:14 PM
3	84.51	28.53mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:14:18 PM
4	84.74	28.61mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:16:22 PM

Mean Area 85.43
Mean Conc. 28.84mg/L



Sample

Sample Name: 280-124912-f-5-c msd
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

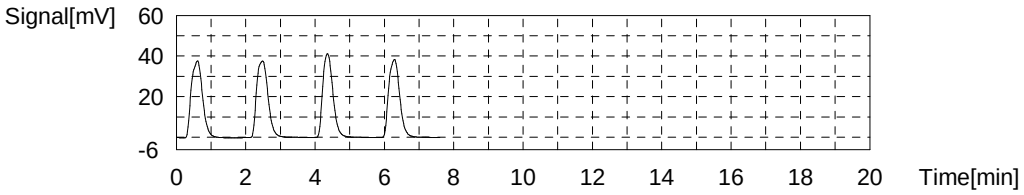
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.99mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.03	29.38mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:24:54 PM
2	86.33	29.15mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:26:58 PM
3	84.80	28.63mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:29:02 PM
4	85.33	28.81mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:31:06 PM

Mean Area 85.87
Mean Conc. 28.99mg/L



Sample

Sample Name: 280-124912-f-9-a
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

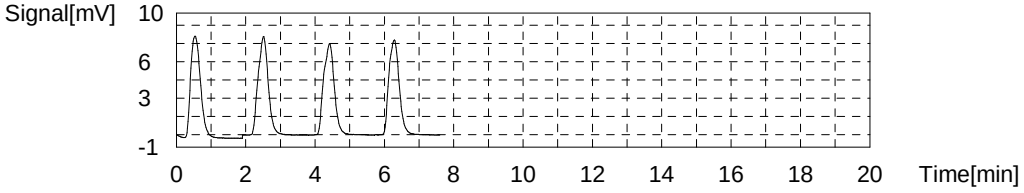
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.486mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.64	5.589mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:39:37 PM
2	16.44	5.522mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:41:41 PM
3	16.04	5.386mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:43:45 PM
4	16.22	5.447mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:45:49 PM

Mean Area 16.34
Mean Conc. 5.486mg/L



Sample

Sample Name: 280-124912-f-10-a
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

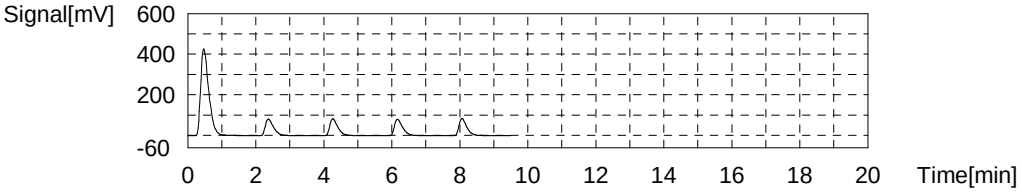
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:233.3mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	717.0	242.3mg/L	50uL	1	R	TOC3.2019_06_24_10_12_13.cal	7/2/2019 5:54:21 PM
2	139.8	236.1mg/L	50uL	5		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:01:51 PM
3	138.2	233.4mg/L	50uL	5		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:03:55 PM
4	137.7	232.6mg/L	50uL	5		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:05:59 PM
5	136.8	231.0mg/L	50uL	5		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:08:03 PM

Mean Area 138.1
Mean Conc. 233.3mg/L



Sample

Sample Name: 280-124912-f-11-a
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

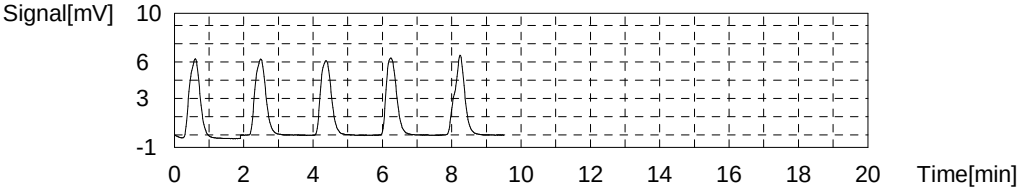
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.462mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.93	4.673mg/L	50uL	1	E	TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:16:35 PM
2	13.48	4.521mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:18:38 PM
3	13.27	4.450mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:20:42 PM
4	13.22	4.433mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:22:46 PM
5	13.25	4.443mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:24:50 PM

Mean Area 13.31
Mean Conc. 4.462mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

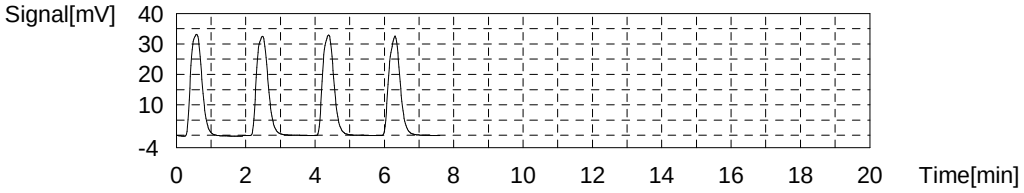
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.30mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.16	25.71mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:33:21 PM
2	75.25	25.40mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:35:24 PM
3	74.44	25.13mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:37:28 PM
4	74.01	24.98mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:39:32 PM

Mean Area 74.97
Mean Conc. 25.30mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

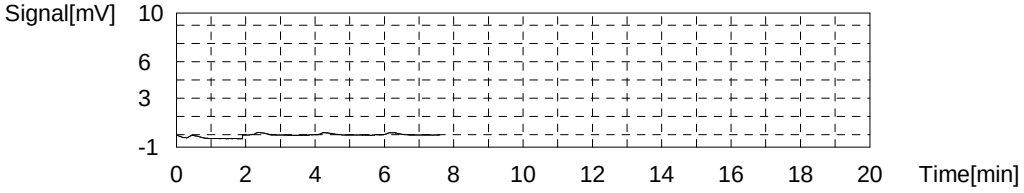
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.09214mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3551	0.08446mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:48:03 PM
2	0.3979	0.09893mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:50:07 PM
3	0.3765	0.09169mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:52:11 PM
4	0.3818	0.09348mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 6:54:15 PM

Mean Area 0.3778
Mean Conc. 0.09214mg/L



Sample

Sample Name: 280-124912-f-12-c
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

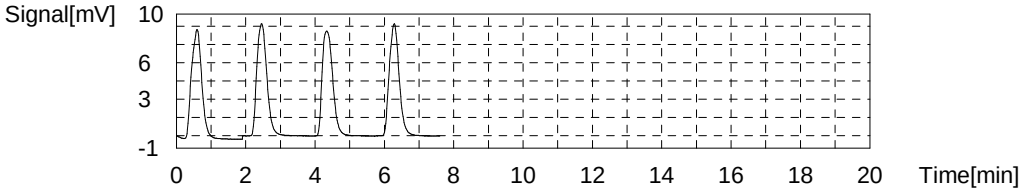
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.183mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.48	6.211mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:02:47 PM
2	18.52	6.225mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:04:50 PM
3	18.21	6.120mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:06:54 PM
4	18.37	6.174mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:08:58 PM

Mean Area 18.40
Mean Conc. 6.183mg/L



Sample

Sample Name: 280-124912-f-12-d ms
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

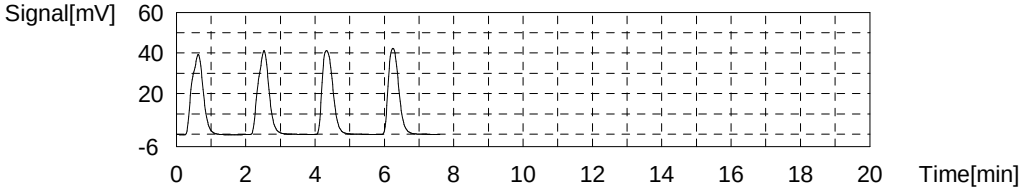
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.58mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.93	31.04mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:17:29 PM
2	90.97	30.72mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:19:33 PM
3	89.60	30.25mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:21:37 PM
4	89.78	30.31mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:23:41 PM

Mean Area 90.57
Mean Conc. 30.58mg/L



Sample

Sample Name: 280-124912-f-12-e msd
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

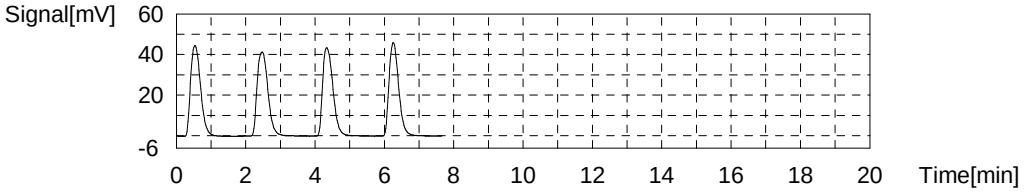
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.51mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.41	30.86mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:32:14 PM
2	89.85	30.34mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:34:17 PM
3	90.14	30.43mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:36:21 PM
4	90.03	30.40mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:38:27 PM

Mean Area 90.36
Mean Conc. 30.51mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

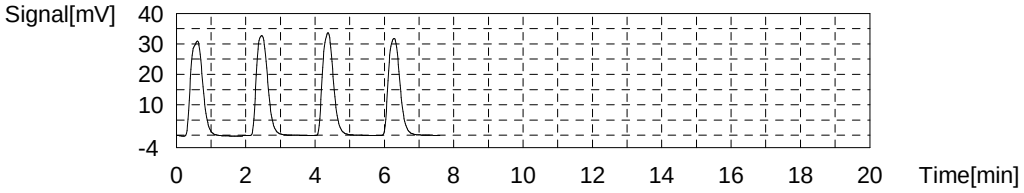
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.16mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.84	25.60mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:46:59 PM
2	74.36	25.10mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:49:03 PM
3	74.02	24.99mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:51:07 PM
4	73.91	24.95mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 7:53:11 PM

Mean Area 74.53
Mean Conc. 25.16mg/L



Sample

Sample Name: LCSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

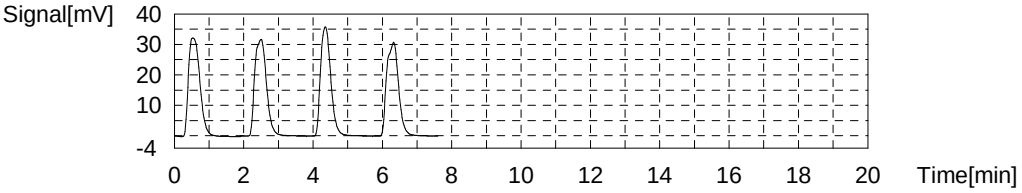
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.12mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.14	25.36mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:01:42 PM
2	75.05	25.33mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:03:46 PM
3	73.94	24.96mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:05:50 PM
4	73.55	24.83mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:07:54 PM

Mean Area 74.42
Mean Conc. 25.12mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

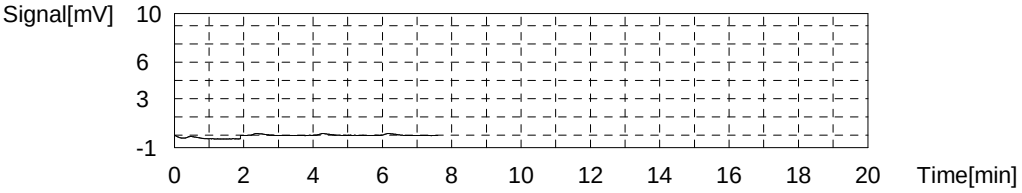
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06054mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2566	0.05116mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:16:25 PM
2	0.3358	0.07794mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:18:29 PM
3	0.2427	0.04646mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:20:33 PM
4	0.3023	0.06661mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:22:37 PM

Mean Area 0.2843
Mean Conc. 0.06054mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

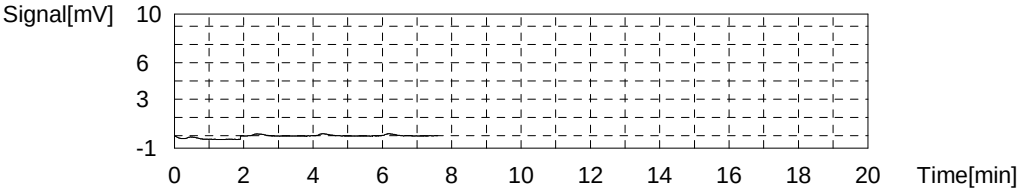
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06449mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2752	0.05745mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:31:08 PM
2	0.3166	0.07144mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:33:12 PM
3	0.3124	0.07003mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:35:16 PM
4	0.2799	0.05904mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:37:20 PM

Mean Area 0.2960
Mean Conc. 0.06449mg/L



Sample

Sample Name: 280-124691-g-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

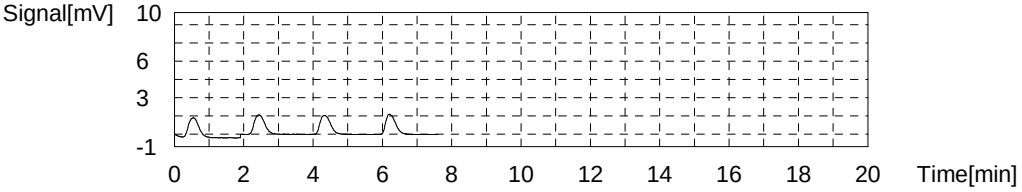
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.076mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.256	1.065mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:45:52 PM
2	3.378	1.106mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:47:55 PM
3	3.260	1.066mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:49:59 PM
4	3.264	1.068mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 8:52:03 PM

Mean Area 3.290
Mean Conc. 1.076mg/L



Sample

Sample Name: 280-124691-h-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

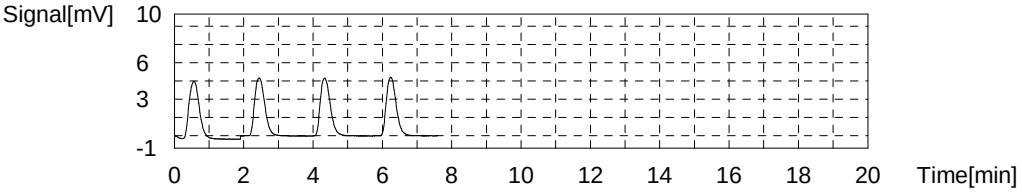
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.207mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.738	3.256mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:00:35 PM
2	9.631	3.220mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:02:39 PM
3	9.506	3.178mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:04:43 PM
4	9.493	3.173mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:06:47 PM

Mean Area 9.592
Mean Conc. 3.207mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

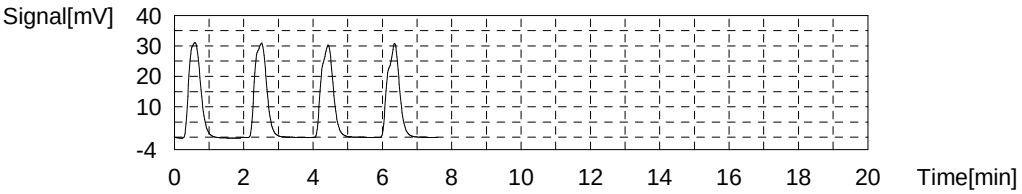
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.93mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	74.80	25.25mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:15:18 PM
2	74.16	25.03mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:17:22 PM
3	72.97	24.63mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:19:26 PM
4	73.55	24.83mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:21:30 PM

Mean Area 73.87
Mean Conc. 24.93mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

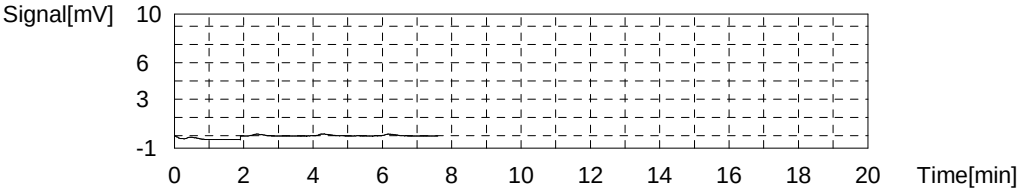
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04962mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2310	0.04251mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:30:01 PM
2	0.2773	0.05816mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:32:05 PM
3	0.2789	0.05870mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:34:09 PM
4	0.2210	0.03913mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:36:13 PM

Mean Area 0.2521
Mean Conc. 0.04962mg/L



Sample

Sample Name: 280-124691-i-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

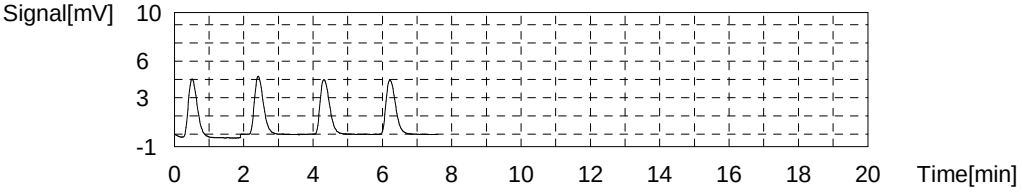
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.867mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.634	2.883mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:44:44 PM
2	8.608	2.874mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:46:48 PM
3	8.487	2.833mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:48:52 PM
4	8.612	2.876mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:50:56 PM

Mean Area 8.585
Mean Conc. 2.867mg/L



Sample

Sample Name: 280-124691-i-5 MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

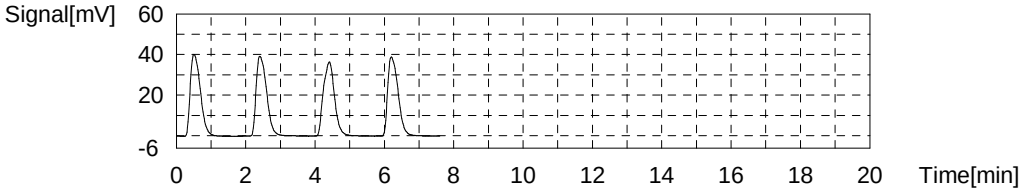
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.87mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	83.64	28.24mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 9:59:27 PM
2	82.66	27.91mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:01:31 PM
3	82.04	27.70mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:03:35 PM
4	81.86	27.64mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:05:39 PM

Mean Area 82.55
Mean Conc. 27.87mg/L



Sample

Sample Name: 280-124691-i-5 MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

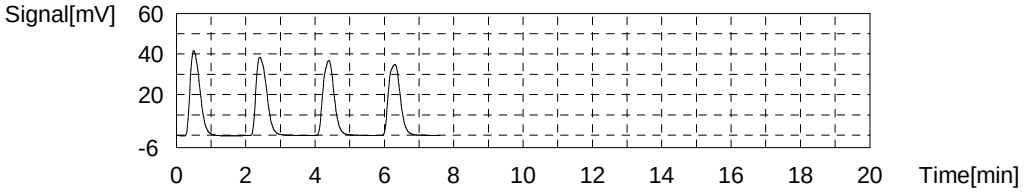
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.02mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	83.74	28.27mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:14:10 PM
2	83.08	28.05mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:16:14 PM
3	82.23	27.76mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:18:18 PM
4	82.89	27.98mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:20:22 PM

Mean Area 82.98
Mean Conc. 28.02mg/L



Sample

Sample Name: 280-124691-f-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

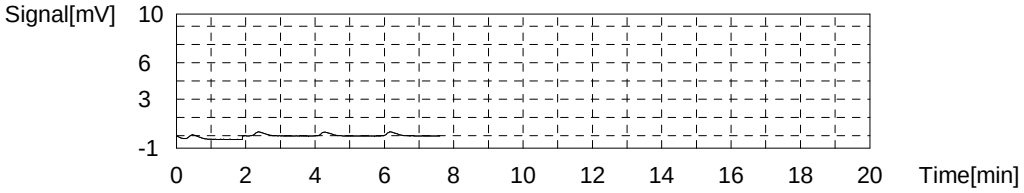
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1544mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5357	0.1455mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:28:54 PM
2	0.5843	0.1619mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:30:58 PM
3	0.5694	0.1569mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:33:02 PM
4	0.5585	0.1532mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:35:06 PM

Mean Area 0.5620
Mean Conc. 0.1544mg/L



Sample

Sample Name: 280-124740-c-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

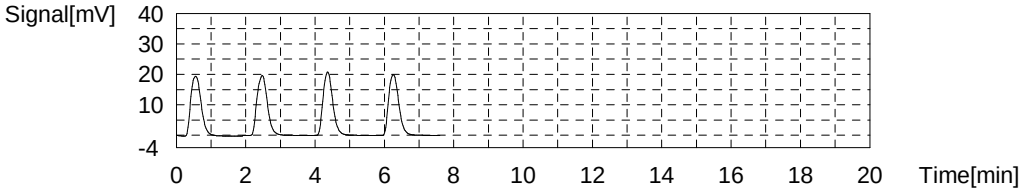
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:13.85mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	41.16	13.88mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:43:38 PM
2	41.18	13.88mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:45:42 PM
3	40.88	13.78mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:47:46 PM
4	41.07	13.85mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:49:50 PM

Mean Area 41.07
Mean Conc. 13.85mg/L



Sample

Sample Name: 280-124740-c-5 MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

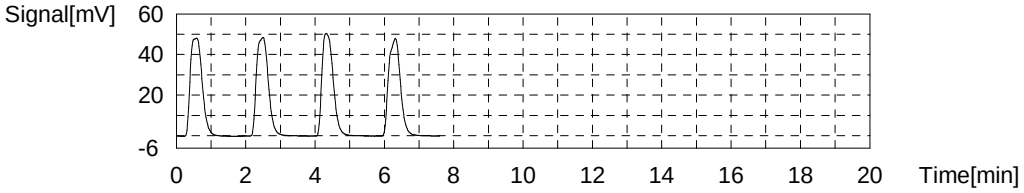
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:38.86mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	116.5	39.35mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 10:58:22 PM
2	115.8	39.11mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:00:26 PM
3	114.0	38.50mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:02:30 PM
4	114.0	38.50mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:04:34 PM

Mean Area 115.1
Mean Conc. 38.86mg/L



Sample

Sample Name: 280-124740-c-5 MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

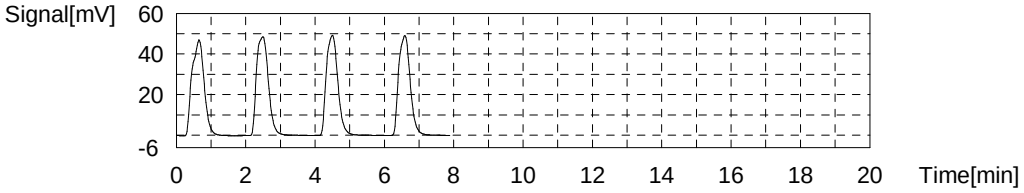
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:39.15mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	116.8	39.45mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:13:06 PM
2	116.8	39.45mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:15:16 PM
3	115.4	38.97mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:17:31 PM
4	114.7	38.74mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:19:35 PM

Mean Area 115.9
Mean Conc. 39.15mg/L



Sample

Sample Name: 280-124740-c-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

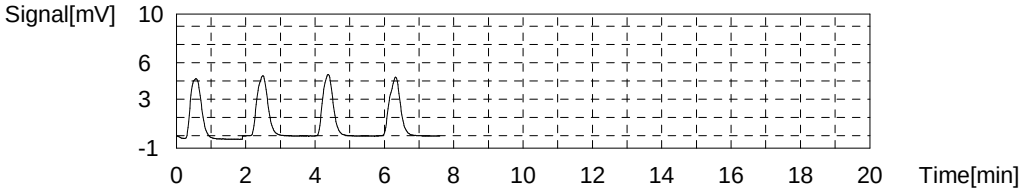
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.570mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.82	3.622mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:28:07 PM
2	10.79	3.612mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:30:11 PM
3	10.50	3.514mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:32:15 PM
4	10.55	3.531mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:34:19 PM

Mean Area 10.66
Mean Conc. 3.570mg/L



Sample

Sample Name: 280-124740-c-6 MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

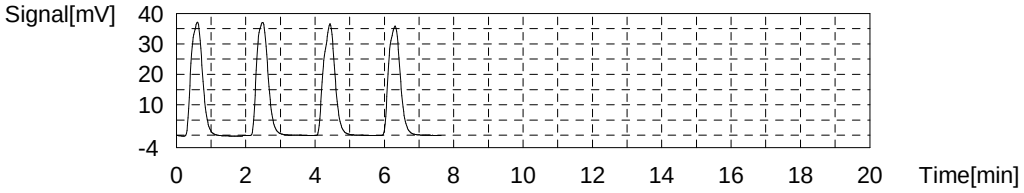
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.76mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	86.35	29.15mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:42:51 PM
2	85.15	28.75mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:44:55 PM
3	84.77	28.62mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:46:59 PM
4	84.53	28.54mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:49:05 PM

Mean Area 85.20
Mean Conc. 28.76mg/L



Sample

Sample Name: 280-124740-c-6 MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

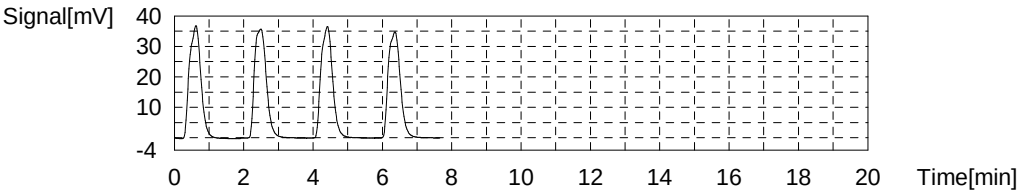
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.81mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	86.36	29.16mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:57:37 PM
2	85.44	28.85mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/2/2019 11:59:41 PM
3	85.23	28.77mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:01:48 AM
4	84.25	28.44mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:03:52 AM

Mean Area 85.32
Mean Conc. 28.81mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

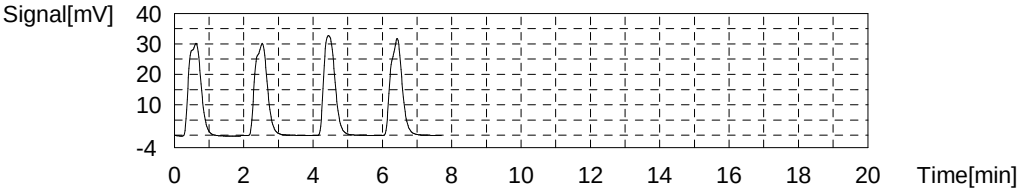
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.25mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.87	25.61mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:12:24 AM
2	75.14	25.36mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:14:34 AM
3	74.02	24.99mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:16:38 AM
4	74.19	25.04mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:18:42 AM

Mean Area 74.81
Mean Conc. 25.25mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

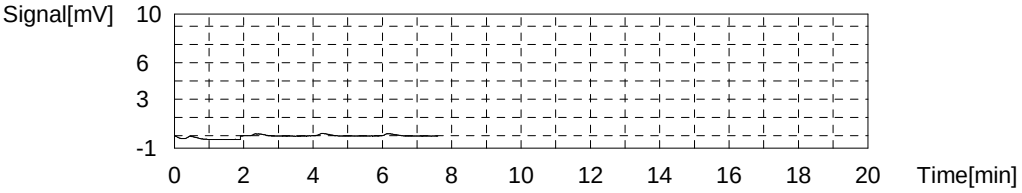
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07803mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3380	0.07868mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:27:14 AM
2	0.3516	0.08328mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:29:18 AM
3	0.3117	0.06979mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:31:22 AM
4	0.3430	0.08037mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:33:26 AM

Mean Area 0.3361
Mean Conc. 0.07803mg/L



Sample

Sample Name: 280-124740-c-9
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

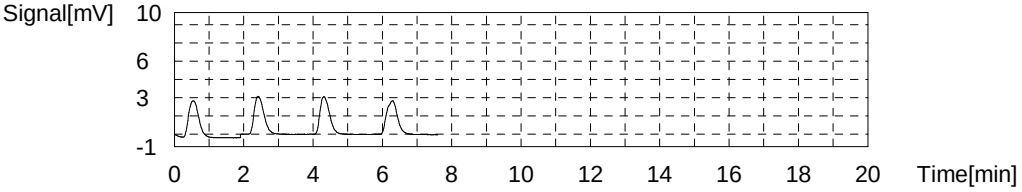
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.992mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.007	1.995mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:41:58 AM
2	6.080	2.020mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:44:02 AM
3	5.884	1.953mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:46:06 AM
4	6.023	2.000mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:48:10 AM

Mean Area 5.998
Mean Conc. 1.992mg/L



Sample

Sample Name: 280-124740-c-10
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

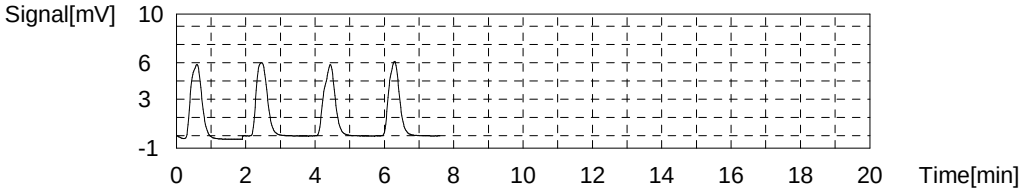
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.436mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.56	4.548mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:56:42 AM
2	13.25	4.443mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:58:46 AM
3	13.05	4.376mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:00:50 AM
4	13.05	4.376mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:02:54 AM

Mean Area 13.23
Mean Conc. 4.436mg/L



Sample

Sample Name: 280-124740-c-11
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

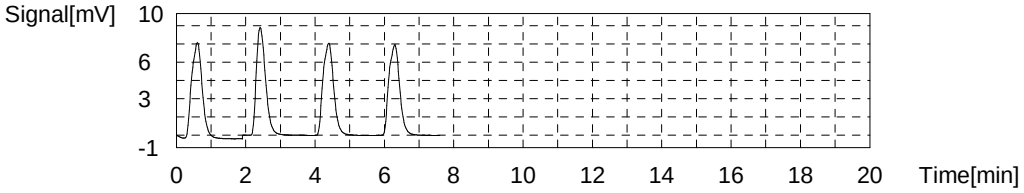
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.498mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.69	5.606mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:11:26 AM
2	16.40	5.508mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:13:30 AM
3	16.23	5.451mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:15:34 AM
4	16.16	5.427mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:17:38 AM

Mean Area 16.37
Mean Conc. 5.498mg/L



Sample

Sample Name: 280-124740-c-12
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

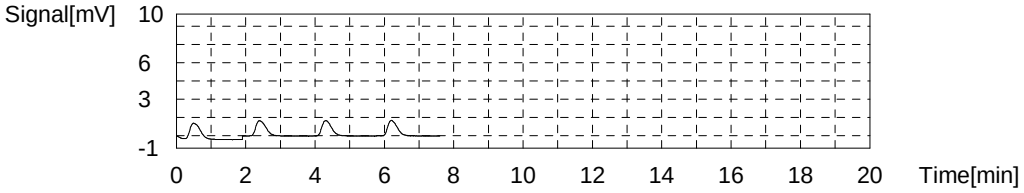
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8011mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.592	0.8406mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:26:10 AM
2	2.506	0.8115mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:28:14 AM
3	2.383	0.7700mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:30:18 AM
4	2.419	0.7821mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:32:22 AM

Mean Area 2.475
Mean Conc. 0.8011mg/L



Sample

Sample Name: 280-124740-c-13
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

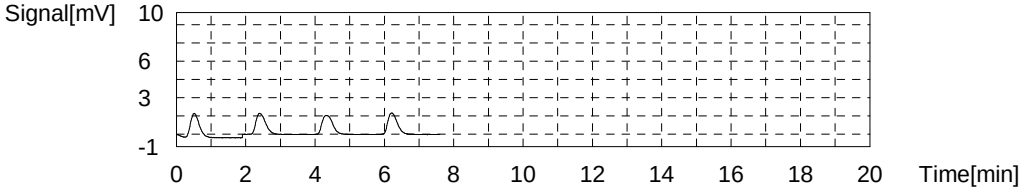
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.095mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.395	1.112mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:40:54 AM
2	3.326	1.089mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:42:58 AM
3	3.306	1.082mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:45:02 AM
4	3.353	1.098mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:47:06 AM

Mean Area 3.345
Mean Conc. 1.095mg/L



Sample

Sample Name: 280-124830-n-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

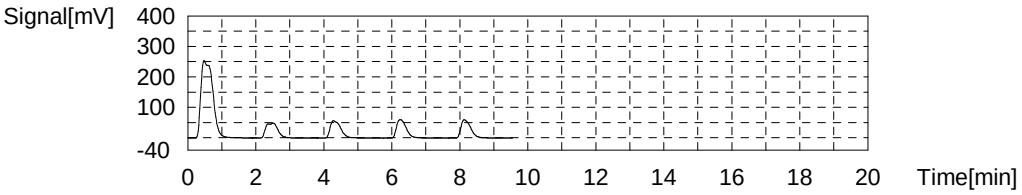
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:408.4mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	622.9	421.0mg/L	50uL	1	R	TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:55:38 AM
2	122.4	413.4mg/L	50uL	5		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:03:09 AM
3	122.3	413.1mg/L	50uL	5		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:05:16 AM
4	119.3	402.9mg/L	50uL	5		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:07:20 AM
5	119.7	404.3mg/L	50uL	5		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:09:24 AM

Mean Area 120.9
Mean Conc. 408.4mg/L



Sample

Sample Name: 280-124830-n-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

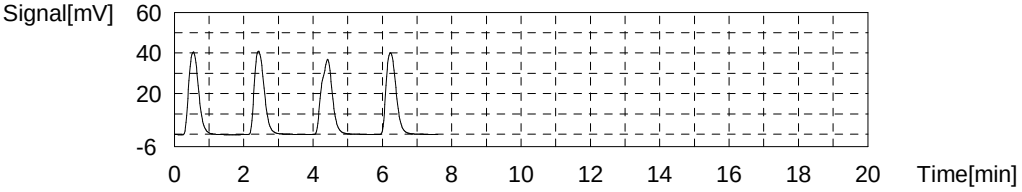
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	20.00	NPOC:551.5mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	81.80	552.3mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:17:56 AM
2	81.82	552.4mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:20:00 AM
3	81.50	550.3mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:22:04 AM
4	81.60	551.0mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:24:08 AM

Mean Area 81.68
Mean Conc. 551.5mg/L



Sample

Sample Name: 280-124830-n-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

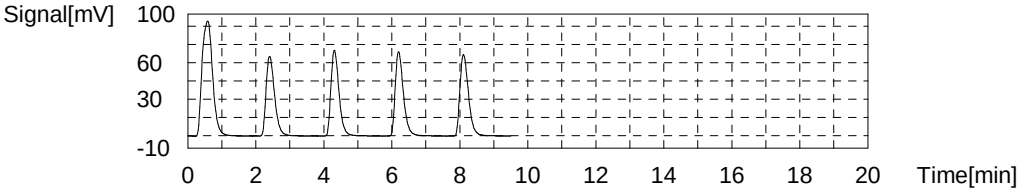
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	20.00	NPOC:1405mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	205.5	1389mg/L	50uL	1	R	TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:32:40 AM
2	114.6	1383mg/L	28uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:34:44 AM
3	116.6	1407mg/L	28uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:36:48 AM
4	116.7	1408mg/L	28uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:38:52 AM
5	117.9	1423mg/L	28uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:40:56 AM

Mean Area 116.5
Mean Conc. 1405mg/L



Sample

Sample Name: 280-124830-m-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

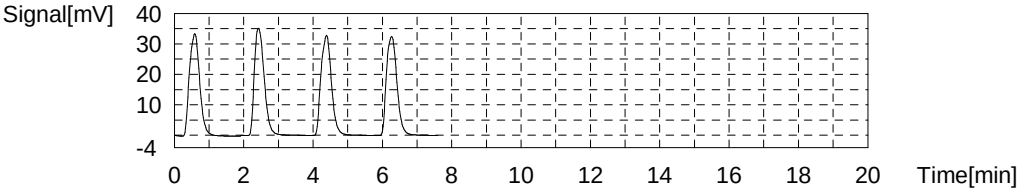
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	20.00	NPOC:470.1mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	70.20	473.9mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:49:27 AM
2	69.94	472.1mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:51:31 AM
3	69.39	468.4mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:53:35 AM
4	69.02	465.9mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 2:55:39 AM

Mean Area 69.64
Mean Conc. 470.1mg/L



Sample

Sample Name: 280-124830-n-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

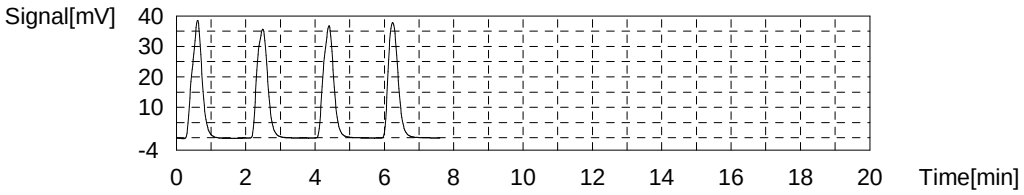
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.89mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	78.06	26.35mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:04:11 AM
2	77.00	25.99mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:06:15 AM
3	76.24	25.74mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:08:19 AM
4	75.46	25.47mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:10:23 AM

Mean Area 76.69
Mean Conc. 25.89mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

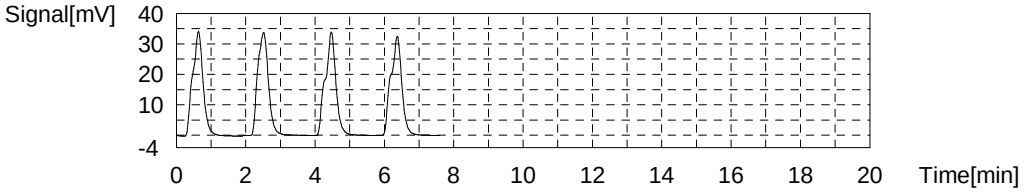
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.69mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.90	24.61mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:18:55 AM
2	73.63	24.85mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:20:59 AM
3	73.41	24.78mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:23:03 AM
4	72.60	24.51mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:25:07 AM

Mean Area 73.14
Mean Conc. 24.69mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

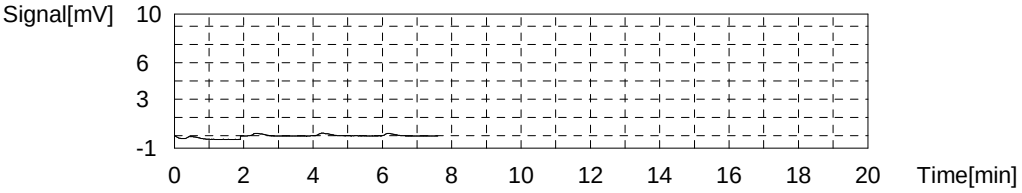
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1014mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3789	0.09250mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:33:39 AM
2	0.4171	0.1054mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:35:43 AM
3	0.4161	0.1051mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:37:47 AM
4	0.4087	0.1026mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:39:51 AM

Mean Area 0.4052
Mean Conc. 0.1014mg/L



Sample

Sample Name: 280-124713-b-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

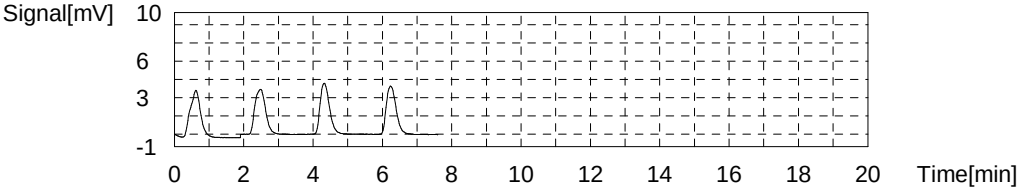
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.650mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.014	2.673mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:48:23 AM
2	7.982	2.663mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:50:27 AM
3	7.921	2.642mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:52:31 AM
4	7.858	2.621mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 3:54:35 AM

Mean Area 7.944
Mean Conc. 2.650mg/L



Sample

Sample Name: 280-124713-c-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

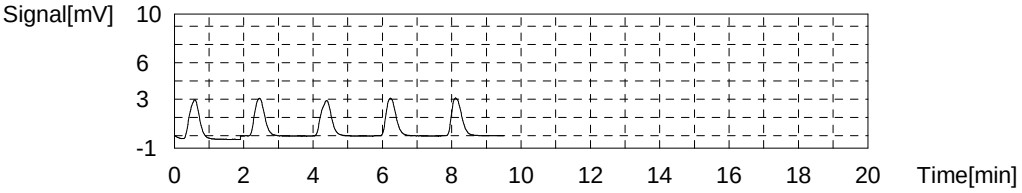
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.043mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.456	2.147mg/L	50uL	1	E	TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:03:07 AM
2	6.166	2.049mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:05:11 AM
3	6.132	2.037mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:07:15 AM
4	6.104	2.028mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:09:19 AM
5	6.194	2.058mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:11:23 AM

Mean Area 6.149
Mean Conc. 2.043mg/L



Sample

Sample Name: 280-124713-b-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

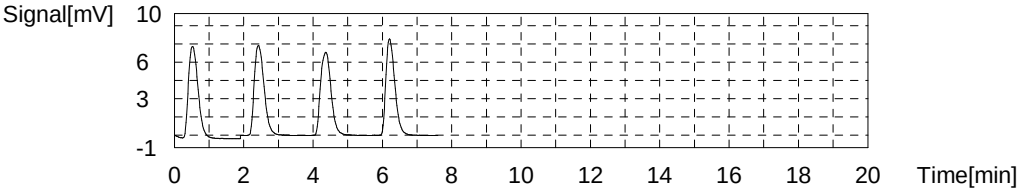
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.871mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.61	4.903mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:19:54 AM
2	14.61	4.903mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:21:58 AM
3	14.43	4.842mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:24:02 AM
4	14.41	4.835mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:26:06 AM

Mean Area 14.52
Mean Conc. 4.871mg/L



Sample

Sample Name: 280-124713-c-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

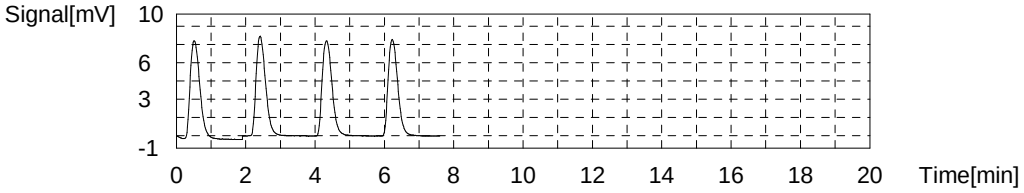
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.199mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.60	5.238mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:34:39 AM
2	15.52	5.211mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:36:43 AM
3	15.42	5.177mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:38:47 AM
4	15.40	5.170mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:40:51 AM

Mean Area 15.49
Mean Conc. 5.199mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

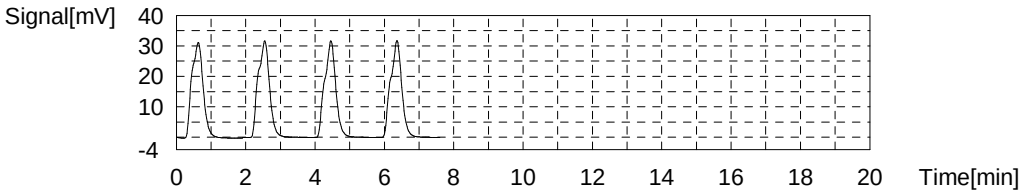
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.36mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.51	24.48mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:49:24 AM
2	72.75	24.56mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:51:28 AM
3	71.43	24.11mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:53:32 AM
4	71.96	24.29mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 4:55:36 AM

Mean Area 72.16
Mean Conc. 24.36mg/L



Sample

Sample Name: LCSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

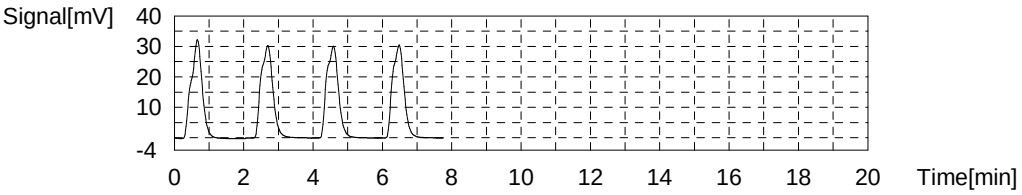
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.34mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.98	24.63mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:04:18 AM
2	72.80	24.57mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:06:22 AM
3	71.70	24.20mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:08:26 AM
4	70.96	23.95mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:10:30 AM

Mean Area 72.11
Mean Conc. 24.34mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

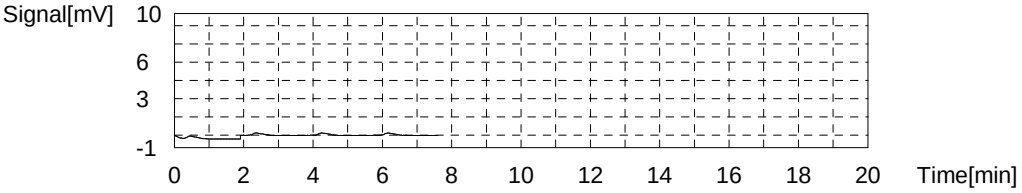
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08247mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3403	0.07946mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:19:03 AM
2	0.3713	0.08994mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:21:07 AM
3	0.3745	0.09102mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:23:11 AM
4	0.3108	0.06948mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:25:15 AM

Mean Area 0.3492
Mean Conc. 0.08247mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

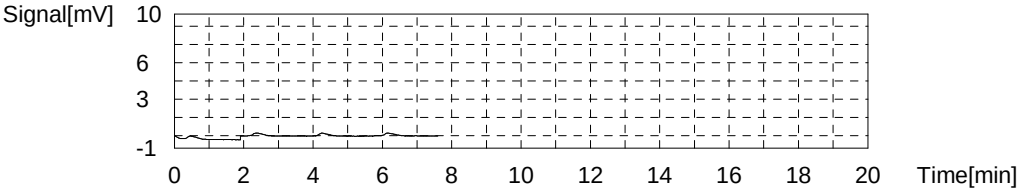
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1005mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3716	0.09004mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:33:48 AM
2	0.4266	0.1086mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:35:52 AM
3	0.4142	0.1044mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:37:56 AM
4	0.3974	0.09876mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:40:00 AM

Mean Area 0.4025
Mean Conc. 0.1005mg/L



Sample

Sample Name: 280-124717-b-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

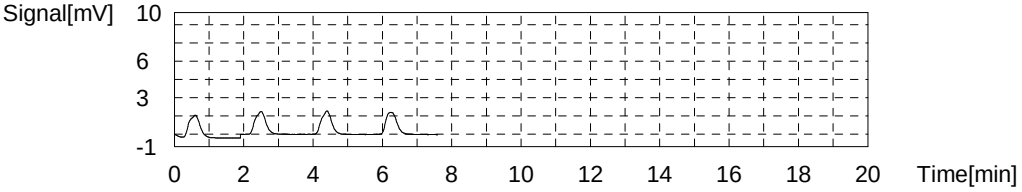
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.304mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.981	1.310mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:48:33 AM
2	3.957	1.302mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:50:37 AM
3	3.945	1.298mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:52:41 AM
4	3.970	1.306mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 5:54:45 AM

Mean Area 3.963
Mean Conc. 1.304mg/L



Sample

Sample Name: 280-124717-b-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

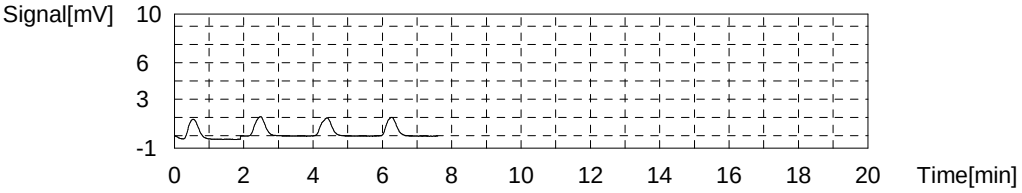
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.032mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.167	1.035mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:03:18 AM
2	3.199	1.046mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:05:22 AM
3	3.174	1.037mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:07:26 AM
4	3.089	1.009mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:09:30 AM

Mean Area 3.157
Mean Conc. 1.032mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

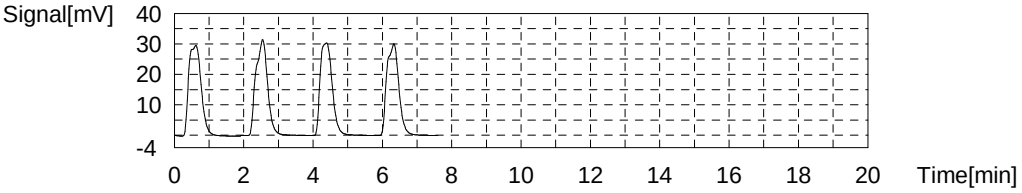
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.06mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.40	25.45mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:18:03 AM
2	74.66	25.20mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:20:07 AM
3	73.58	24.84mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:22:11 AM
4	73.28	24.74mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:24:15 AM

Mean Area 74.23
Mean Conc. 25.06mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

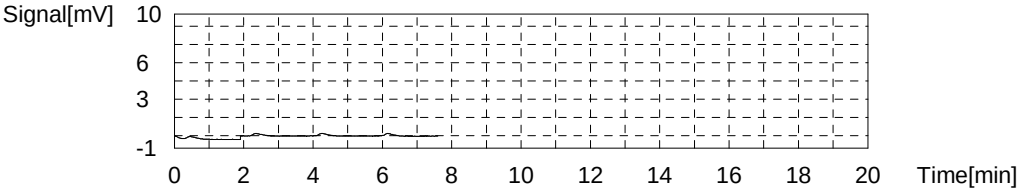
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07261mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2929	0.06343mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:32:48 AM
2	0.3481	0.08209mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:34:52 AM
3	0.3208	0.07286mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:36:56 AM
4	0.3184	0.07205mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:39:00 AM

Mean Area 0.3201
Mean Conc. 0.07261mg/L



Sample

Sample Name: 280-124717-b-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

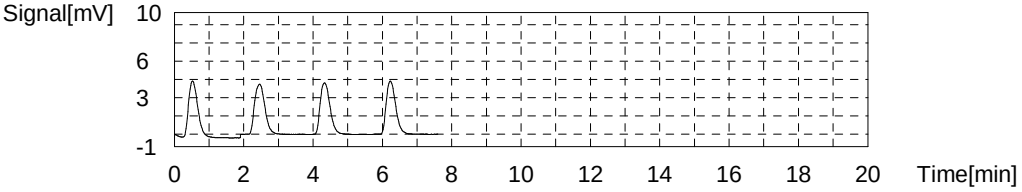
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.827mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.584	2.866mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:47:33 AM
2	8.565	2.860mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:49:37 AM
3	8.375	2.795mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:51:41 AM
4	8.353	2.788mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 6:53:45 AM

Mean Area 8.469
Mean Conc. 2.827mg/L



Sample

Sample Name: 280-124717-b-6 MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

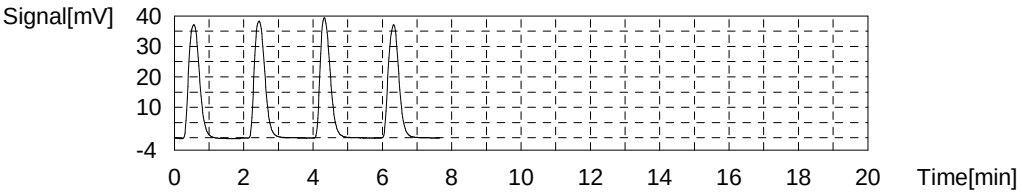
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.24mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	82.06	27.70mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:02:18 AM
2	81.50	27.51mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:04:22 AM
3	79.78	26.93mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:06:29 AM
4	79.42	26.81mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:08:33 AM

Mean Area 80.69
Mean Conc. 27.24mg/L



Sample

Sample Name: 280-124717-b-6 MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

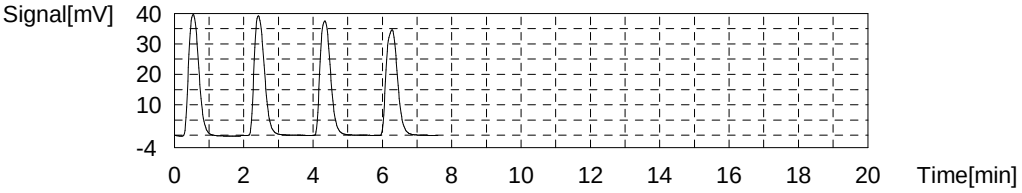
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.30mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	82.64	27.90mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:17:06 AM
2	81.16	27.40mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:19:10 AM
3	80.19	27.07mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:21:14 AM
4	79.50	26.84mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:23:18 AM

Mean Area 80.87
Mean Conc. 27.30mg/L



Sample

Sample Name: 280-124717-b-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

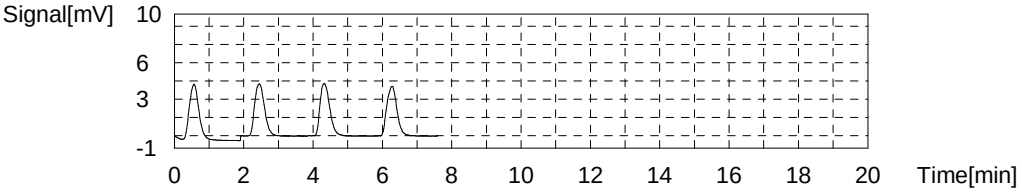
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.826mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.656	2.890mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:31:51 AM
2	8.492	2.835mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:33:55 AM
3	8.362	2.791mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:35:59 AM
4	8.348	2.786mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:38:03 AM

Mean Area 8.465
Mean Conc. 2.826mg/L



Sample

Sample Name: 280-124717-b-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

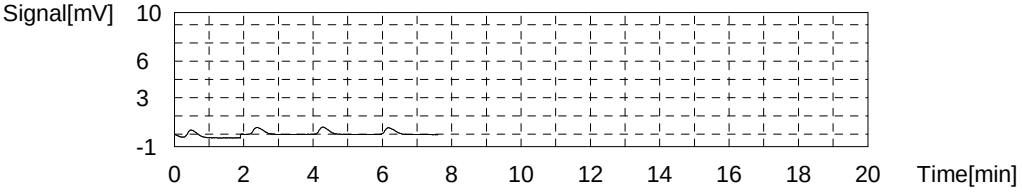
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3325mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.068	0.3254mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:46:36 AM
2	1.117	0.3420mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:48:40 AM
3	1.088	0.3322mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:50:44 AM
4	1.083	0.3305mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 7:52:48 AM

Mean Area 1.089
Mean Conc. 0.3325mg/L



Sample

Sample Name: 280-124719-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

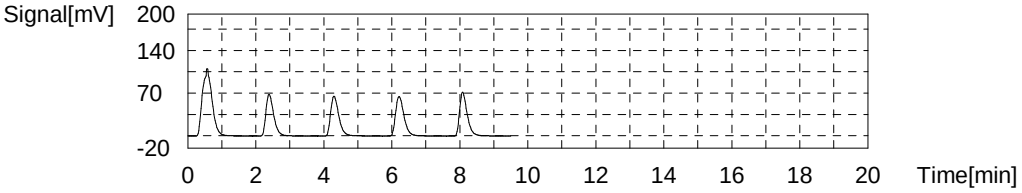
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:144.3mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	219.6	148.4mg/L	50uL	1	R	TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:01:21 AM
2	109.5	142.3mg/L	26uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:03:25 AM
3	109.9	142.8mg/L	26uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:05:29 AM
4	112.1	145.7mg/L	26uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:07:33 AM
5	112.8	146.6mg/L	26uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:09:36 AM

Mean Area 111.1
Mean Conc. 144.3mg/L



Sample

Sample Name: 280-124719-b-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

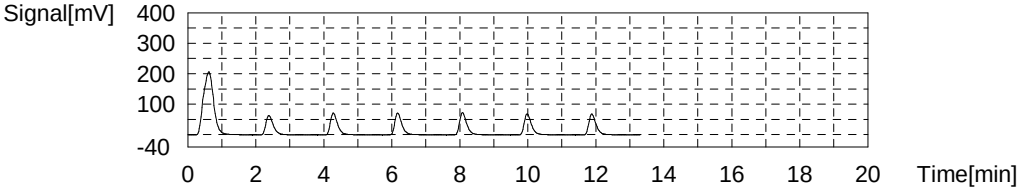
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:268.6mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	437.1	295.4mg/L	50uL	1	R	TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:18:09 AM
2	96.95	252.0mg/L	13uL	1	E	TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:20:13 AM
3	105.3	273.7mg/L	13uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:22:17 AM
4	103.4	268.8mg/L	13uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:24:21 AM
5	107.8	280.2mg/L	13uL	1	E	TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:26:24 AM
6	102.3	265.9mg/L	13uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:28:28 AM
7	102.3	265.9mg/L	13uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:32:52 AM

Mean Area 103.3
Mean Conc. 268.6mg/L



Sample

Sample Name: 280-124719-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

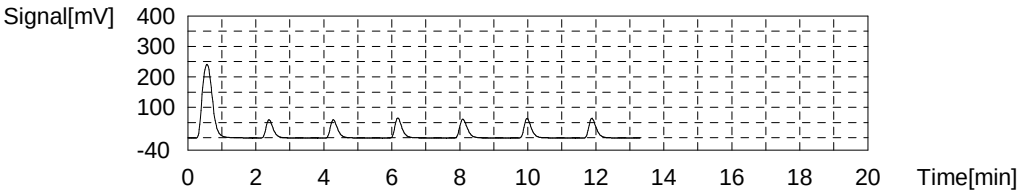
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:300.5mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	501.0	338.6mg/L	50uL	1	R	TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:41:19 AM
2	89.57	275.2mg/L	11uL	1	E	TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:43:23 AM
3	89.62	275.3mg/L	11uL	1	E	TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:45:27 AM
4	97.23	298.7mg/L	11uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:47:31 AM
5	98.65	303.1mg/L	11uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:49:34 AM
6	96.04	295.1mg/L	11uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:51:38 AM
7	99.28	305.0mg/L	11uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 8:56:02 AM

Mean Area 97.80
Mean Conc. 300.5mg/L



Sample

Sample Name: 280-124719-b-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

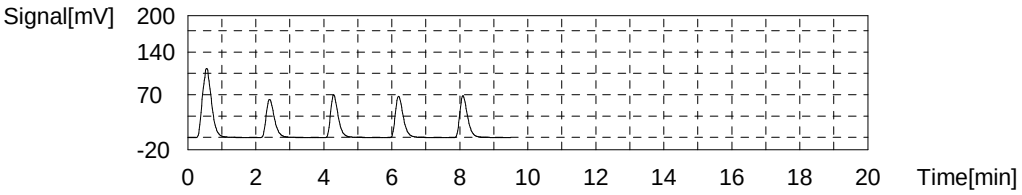
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:137.0mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	212.2	143.4mg/L	50uL	1	R	TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:04:28 AM
2	106.9	133.8mg/L	27uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:06:32 AM
3	109.7	137.3mg/L	27uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:08:36 AM
4	111.0	138.9mg/L	27uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:10:40 AM
5	110.3	138.0mg/L	27uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:12:43 AM

Mean Area 109.5
Mean Conc. 137.0mg/L



Sample

Sample Name: 280-124724-b-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

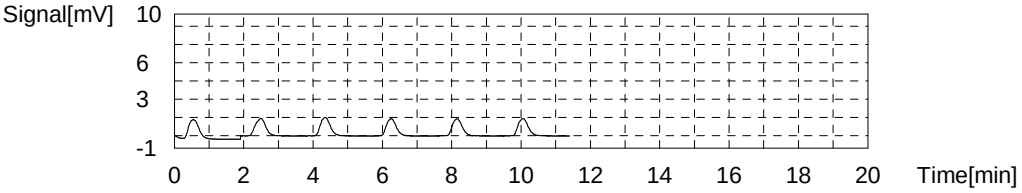
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9268mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.146	1.028mg/L	50uL	1	E	TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:21:16 AM
2	2.983	0.9728mg/L	50uL	1	E	TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:23:20 AM
3	2.940	0.9582mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:25:24 AM
4	2.802	0.9116mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:27:28 AM
5	2.779	0.9038mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:29:32 AM
6	2.867	0.9336mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:31:36 AM

Mean Area 2.847
Mean Conc. 0.9268mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

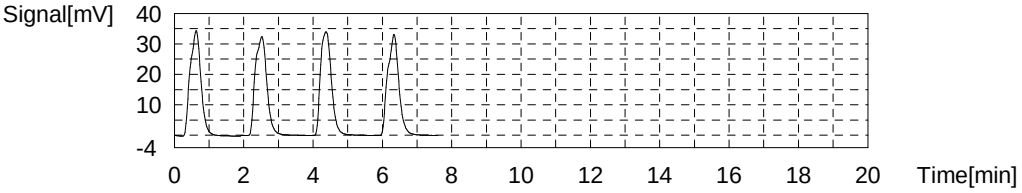
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.49mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.06	25.68mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:40:03 AM
2	76.14	25.70mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:42:07 AM
3	75.08	25.34mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:44:11 AM
4	74.82	25.26mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:46:15 AM

Mean Area 75.52
Mean Conc. 25.49mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

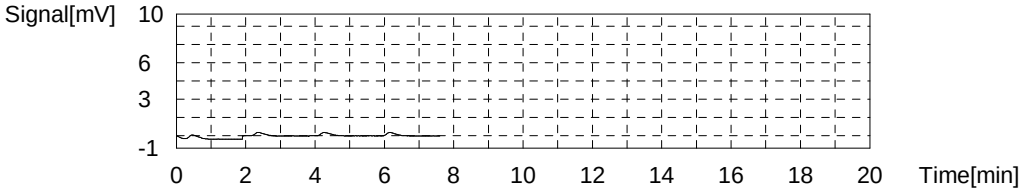
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1310mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5036	0.1347mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:54:49 AM
2	0.4735	0.1245mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:56:53 AM
3	0.5231	0.1412mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 9:58:57 AM
4	0.4711	0.1237mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:01:01 AM

Mean Area 0.4928
Mean Conc. 0.1310mg/L



Sample

Sample Name: 280-124838-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

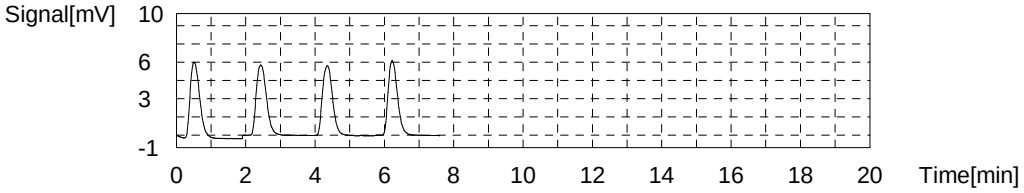
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.931mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.93	3.997mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:09:35 AM
2	11.82	3.960mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:11:39 AM
3	11.63	3.896mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:13:43 AM
4	11.56	3.872mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:15:47 AM

Mean Area 11.74
Mean Conc. 3.931mg/L



Sample

Sample Name: 490-175605-d-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

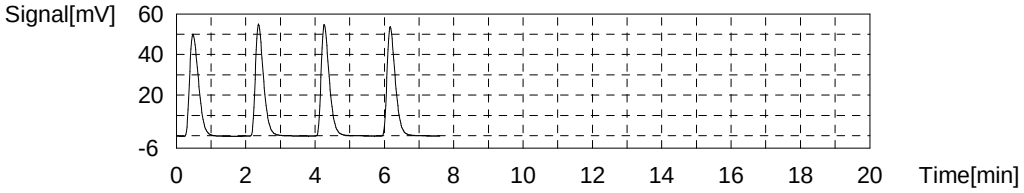
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:61.22mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.32	61.67mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:24:21 AM
2	91.32	61.67mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:26:25 AM
3	90.00	60.77mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:28:29 AM
4	89.97	60.75mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:30:33 AM

Mean Area 90.65
Mean Conc. 61.22mg/L



Sample

Sample Name: 490-175605-d-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

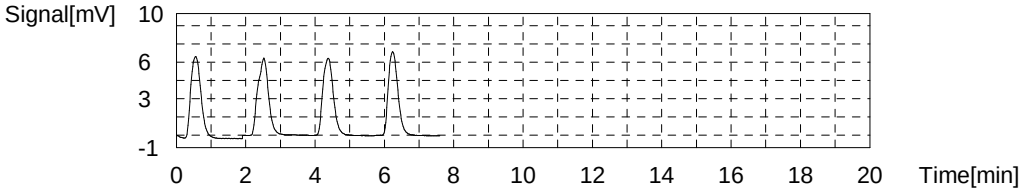
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.533mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.73	4.606mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:39:07 AM
2	13.63	4.572mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:41:11 AM
3	13.39	4.491mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:43:15 AM
4	13.31	4.464mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:45:19 AM

Mean Area 13.52
Mean Conc. 4.533mg/L



Sample

Sample Name: 280-124894-b-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

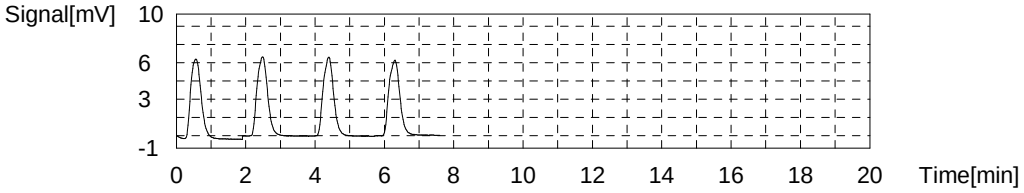
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.591mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.75	4.612mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:53:53 AM
2	13.80	4.629mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:55:57 AM
3	13.58	4.555mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 10:58:01 AM
4	13.62	4.568mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:00:05 AM

Mean Area 13.69
Mean Conc. 4.591mg/L



Sample

Sample Name: 280-124894-b-9
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

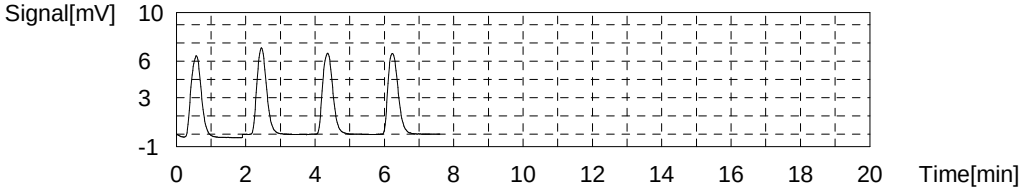
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.606mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.83	4.639mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:08:39 AM
2	13.81	4.633mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:10:43 AM
3	13.65	4.579mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:12:47 AM
4	13.64	4.575mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:14:51 AM

Mean Area 13.73
Mean Conc. 4.606mg/L



Sample

Sample Name: 280-124894-b-10
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

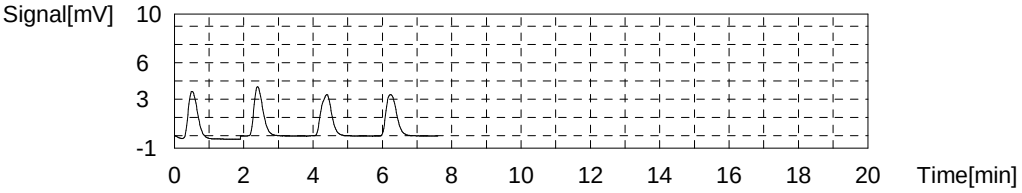
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.412mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.258	2.418mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:23:25 AM
2	7.297	2.431mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:25:29 AM
3	7.209	2.401mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:27:33 AM
4	7.196	2.397mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:29:37 AM

Mean Area 7.240
Mean Conc. 2.412mg/L



Sample

Sample Name: 280-124894-a-11
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

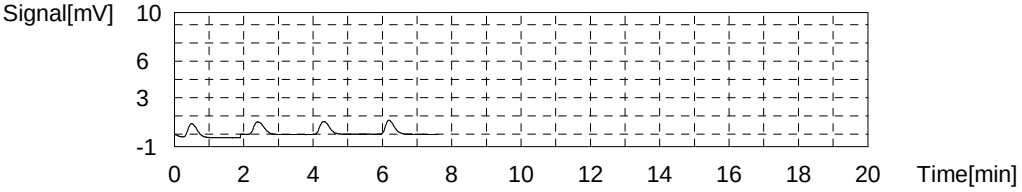
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6560mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.983	0.6347mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:38:11 AM
2	2.103	0.6753mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:40:15 AM
3	2.054	0.6587mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:42:19 AM
4	2.044	0.6554mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:44:23 AM

Mean Area 2.046
Mean Conc. 0.6560mg/L



Sample

Sample Name: 280-124894-b-12
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

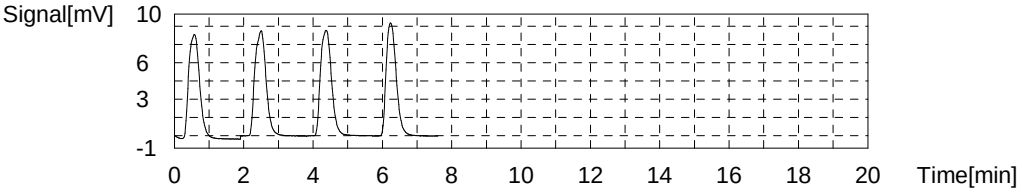
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.392mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.85	6.336mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:52:57 AM
2	19.34	6.502mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:55:01 AM
3	19.06	6.407mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:57:05 AM
4	18.81	6.323mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 11:59:09 AM

Mean Area 19.02
Mean Conc. 6.392mg/L



Sample

Sample Name: 280-124894-b-13
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

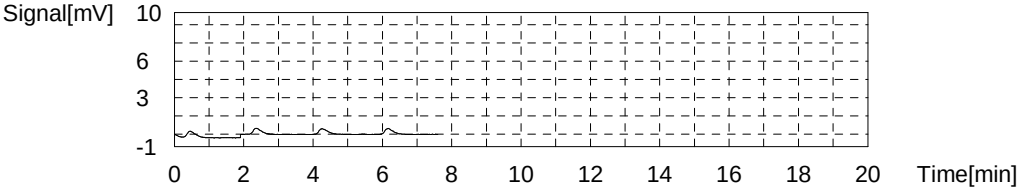
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2371mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7742	0.2261mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:07:43 PM
2	0.8258	0.2436mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:09:47 PM
3	0.8185	0.2411mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:11:51 PM
4	0.8086	0.2378mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:13:55 PM

Mean Area 0.8068
Mean Conc. 0.2371mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

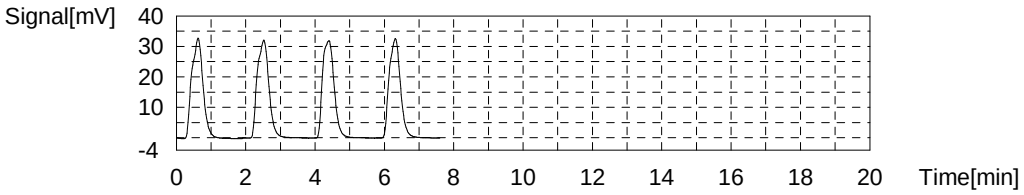
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.33mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.78	25.58mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:22:29 PM
2	75.49	25.48mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:24:33 PM
3	74.59	25.18mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:26:37 PM
4	74.35	25.10mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:28:41 PM

Mean Area 75.05
Mean Conc. 25.33mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

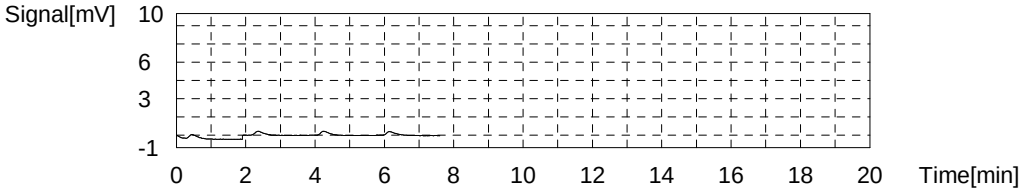
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1446mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4719	0.1239mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:37:15 PM
2	0.5576	0.1529mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:39:19 PM
3	0.5656	0.1556mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:41:23 PM
4	0.5367	0.1458mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:43:27 PM

Mean Area 0.5330
Mean Conc. 0.1446mg/L



Sample

Sample Name: 280-124815-d-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

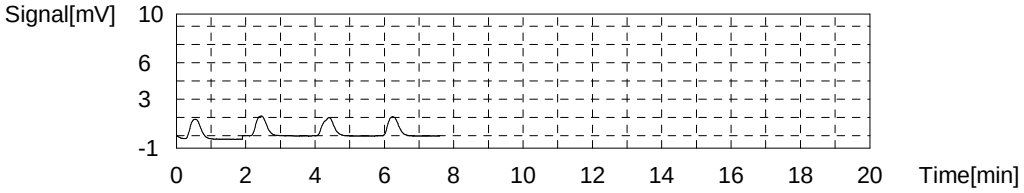
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.088mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.300	1.080mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:52:02 PM
2	3.343	1.094mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:54:06 PM
3	3.359	1.100mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:56:10 PM
4	3.299	1.080mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 12:58:14 PM

Mean Area 3.325
Mean Conc. 1.088mg/L



Sample

Sample Name: 280-124815-d-1 MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

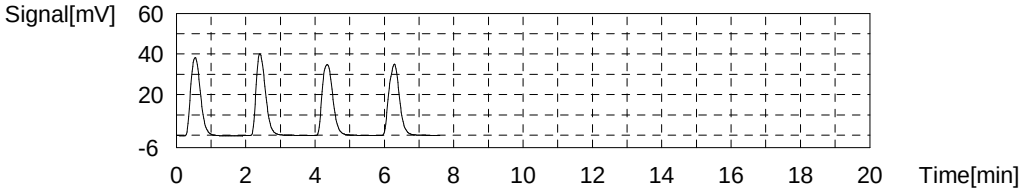
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.58mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.89	25.96mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:06:49 PM
2	75.85	25.60mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:08:53 PM
3	75.22	25.39mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:10:57 PM
4	75.13	25.36mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:13:01 PM

Mean Area 75.77
Mean Conc. 25.58mg/L



Sample

Sample Name: 280-124815-d-1 MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

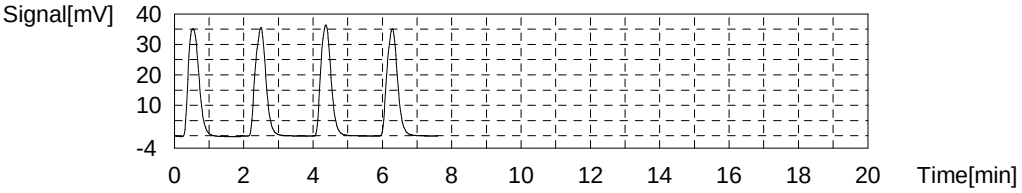
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.66mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.75	25.91mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:21:36 PM
2	76.39	25.79mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:23:40 PM
3	75.57	25.51mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:25:44 PM
4	75.30	25.42mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:27:48 PM

Mean Area 76.00
Mean Conc. 25.66mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

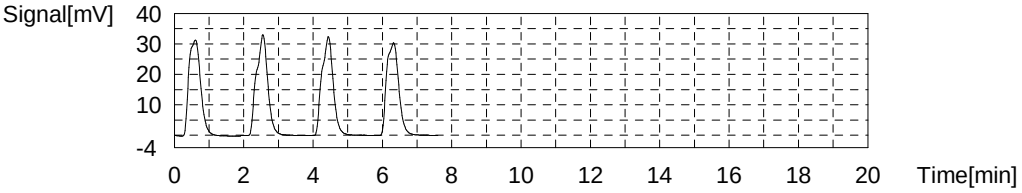
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.31mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.75	25.57mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:36:23 PM
2	75.78	25.58mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:38:27 PM
3	74.11	25.02mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:40:31 PM
4	74.26	25.07mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:42:35 PM

Mean Area 74.97
Mean Conc. 25.31mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

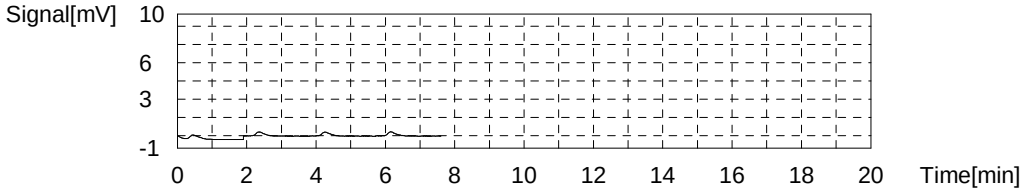
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1369mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5067	0.1357mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:51:10 PM
2	0.5071	0.1358mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:53:14 PM
3	0.5210	0.1405mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:55:18 PM
4	0.5058	0.1354mg/L	50uL	1		TOC3.2019_06_24_10_12_13.cal	7/3/2019 1:57:22 PM

Mean Area	0.5102
Mean Conc.	0.1369mg/L



TOC-V Cal Curve Information
C:¥TOC3201¥CalCurves¥TOC3.2019_06_24_10_12_13.cal

Date of Creation 11:17:07 AM 6/24/2019
User wetchemd
System TOC-V cpn 3

Cal. Curve

Sample Name: CAL 110716
Sample ID: Untitled
Object ID 0A-103108-04335027-13415A0166CC-0000
Cal. Curve: TOC3.2019_06_24_10_12_13.cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.2765	50uL	1	*******		6/24/2019 10:19:54 A
2	0.3484	50uL	1	*******		6/24/2019 10:21:58 A

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 0.3125
SD Area 0.05084
CV Area 16.27%
Vial 1

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.311	50uL	1	*******		6/24/2019 10:30:32 A
2	3.309	50uL	1	*******		6/24/2019 10:32:36 A

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 3.310
SD Area 0.00141
CV Area 0.04%
Vial 2

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	14.36	50uL	1	*******	E	6/24/2019 10:41:10 A
2	14.95	50uL	1	*******		6/24/2019 10:43:14 A
3	14.85	50uL	1	*******		6/24/2019 10:45:18 A

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 14.90
SD Area 0.07071
CV Area 0.47%
Vial 3

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	29.38	50uL	1	*******		6/24/2019 10:53:47 A
2	29.94	50uL	1	*******		6/24/2019 10:55:51 A

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 29.66
SD Area 0.3960
CV Area 1.34%
Vial 4

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	72.31	50uL	1	*******		6/24/2019 11:04:25 A
2	74.10	50uL	1	*******		6/24/2019 11:06:29 A

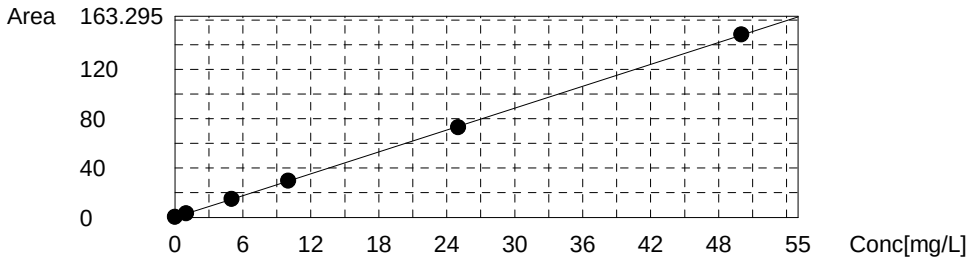
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 73.21
SD Area 1.266
CV Area 1.73%
Vial 5

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	147.7	50uL	1	*******		6/24/2019 11:15:03 A
2	149.2	50uL	1	*******		6/24/2019 11:17:07 A

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 148.5
SD Area 1.061
CV Area 0.71%
Vial 6

Slope: 2.958
Intercept 0.1052
r^2 0.9999
r 1.0000
Zero Shift No



Subcontract Data

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-175605 Chain of Custody

Cooler Received/Opened On 6/8/2019 @ 9:45

Time Samples Removed From Cooler 13:19 Time Samples Placed In Storage 14:10 (2 Hour Window)

1. Tracking # 4345 (last 4 digits, FedEx) 6/10/19 Courier: FedEx 6/10/19

IR Gun ID 17960358 pH Strip Lot HC869997 Chlorine Strip Lot 101118H

2. Temperature of rep. sample or temp blank when opened: 5.3 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA


Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

End of Form

Revised 8/23.17

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-175605

COOLER RECEIPT FORM

Cooler Received/Opened On 6/8/2019 @ 9:45

Time Samples Removed From Cooler 13:19 6/10/19 Time Samples Placed In Storage 14:10 6/10/19 (2 Hour Window)

1. Tracking # 4334 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960358 pH Strip Lot HC869997 Chlorine Strip Lot 101118H

2. Temperature of rep. sample or temp blank when opened: 2.0 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

6/10/19

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 490
175605

COOLER RECEIPT FORM

Cooler Received/Opened On 6/8/2019 @ 9:45

Time Samples Removed From Cooler 1319 Time Samples Placed In Storage 1410 (2 Hour Window)

1. Tracking # 4356 (last 4 digits, FedEx) Courier: FedEx 6/10/19

IR Gun ID 17960358 pH Strip Lot HC869997 Chlorine Strip Lot 101118H

2. Temperature of rep. sample or temp blank when opened: 0.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

End of Form

Revised 8/23/17

Albany
#224

Chain of Custody Record 318306

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Mike Poitras	Site Contact:	Date:	COC No:
Company Name: Leidos INC	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 301 Laboratory Road	Analysis Turnaround Time			Sampler:
City/State/Zip: Oak Ridge TN, 37830	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 865-405-8332	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: ~~Leidy Stratton~~ 2015 Eastern ARP	☐ 1 week			
Site: Stratton ANG Base - Site 6	☐ 2 days			Job / SDG No.:
PO# 2801 5159	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOC	TOC	Sample Specific Notes:
1 6MW2011	6/5/19	1240	G	W	4			X	X	
2 6MW2011D	6/5/19	1240	G	W	4			X	X	
3 6MW2011MS	6/5/19	1240	G	W	3			X		
4 6MW2011MSD	6/5/19	1240	G	W	3			X		
5 6MW2511	6/5/19	1400	G	W	4			X	X	
6 6MW2611	6/5/19	1445	G	W	4			X	X	
7 6MW2311	6/5/19	1535	G	W	4			X	X	
8 6MW2211	6/5/19	1635	G	W	4			X	X	
9 6MW2411	6/6/19	7:15	G	W	4			X	X	
10 PB07	6/6/19	650	G	W	3			X		

Loc: 490
175605

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☒ Archive for 3 Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 3.3, 2.0, 0.7 Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Personal	AZtech	6/6/19 1900	Karl Zacher	TA	6/7/19 0700
Relinquished by: Karl Zacher	Company: TA 6/7/19	Date/Time: 1700	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-NAS	Date/Time: 6/8/19 9:45

Eurofins TestAmerica, Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone: 615-726-0177 Fax: 615-726-3404

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 490-91881.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA; NELAP - Florida; NELAP - New Hampshire ...		Job #: 490-175605-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 6/27/2019			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Stratton ANGB, NY (Schenectady)	Project #: 28015159			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C_DOD5/5030C VOCs - TA St. Louis (for NY samples)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
6MW2011 (490-175605-1)	6/5/19	12:40 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2011D (490-175605-1DU)	6/5/19	12:40 Eastern	DU	Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2011MS (490-175605-1MS)	6/5/19	12:40 Eastern	MS	Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2011MSD (490-175605-1MSD)	6/5/19	12:40 Eastern	MSD	Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2511 (490-175605-2)	6/5/19	14:00 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2611 (490-175605-3)	6/5/19	14:45 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2311 (490-175605-4)	6/5/19	15:35 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2211 (490-175605-5)	6/5/19	16:35 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2411 (490-175605-6)	6/6/19	07:15 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 4	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	6/13/19 @ 1330	TAMS	[signature]	6/14/19 0900	TASL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone: 615-726-0177 Fax: 615-726-3404

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 490-91881.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA; NELAP - Florida; NELAP - New Hampshire ...		Job #: 490-175605-1
Address: 13715 Rider Trail North,	Due Date Requested: 6/27/2019			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Stratton ANGB, NY (Schenectady)	Project #: 28015159			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C_DOD5/5030C VOCs - TA St. Louis (for NY samples)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FB07 (490-175605-7)	6/6/19	06:50 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
TB (490-175605-8)	6/5/19	12:40 Eastern		Water			X	2	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration

490-175605 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 4	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		6/13/19 @ 1330	TANAS		6-14-19 09:00	TA STL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone: 615-726-0177 Fax: 615-726-3404

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 490-91910.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA; NELAP - Florida; NELAP - New Hampshire ...		Job #: 490-175605-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 6/26/2019			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Stratton ANGB, NY (Schenectady)	Project #: 28015159			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9060A/ TOC (Quad)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
6MW2011 (490-175605-1)	6/5/19	12:40 Eastern		Water			X	1	Q5Rev122815
6MW2011D (490-175605-1DU)	6/5/19	12:40 Eastern	DU	Water			X	1	Q5Rev122815
6MW2511 (490-175605-2)	6/5/19	14:00 Eastern		Water			X	1	Q5Rev122815
6MW2611 (490-175605-3)	6/5/19	14:45 Eastern		Water			X	1	Q5Rev122815
6MW2311 (490-175605-4)	6/5/19	15:35 Eastern		Water			X	1	Q5Rev122815
6MW2211 (490-175605-5)	6/5/19	16:35 Eastern		Water			X	1	Q5Rev122815
6MW2411 (490-175605-6)	6/6/19	07:15 Eastern		Water			X	1	Q5Rev122815

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 4	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6.13.19 @ 1600	TAMS	[signature]	06/14/19 0835	TA DEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3, TC, IR #8 by AP 06/14/19

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 490-175605-1

Login Number: 175605
List Number: 3
Creator: Paul, Amanda E

List Source: Eurofins TestAmerica, Denver
List Creation: 06/14/19 07:57 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 490-175605-1

Login Number: 175605
List Number: 4
Creator: Paul, Ryan D

List Source: Eurofins TestAmerica, Denver
List Creation: 06/14/19 08:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 490-175605-1

Login Number: 175605
List Number: 2
Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis
List Creation: 06/14/19 03:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	A,B,C-5
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 490-175605-1

Login Number: 175605
List Number: 5
Creator: McKinney, Gerrod E

List Source: Eurofins TestAmerica, St. Louis
List Creation: 06/19/19 10:20 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	A,B,C-5
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	