December 14, 2017

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 Second Semiannual Monitoring Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, Stratton Air National Guard Base (SANGB), Scotia, New York, dated December 2017**

Dear Mr. Jankauskas,

The above-referenced document will be 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 (ANG) to perform remedial action at Installation Restoration Program Site 6 at SANGB. This document serves as the Second Semiannual Monitoring Report documenting results from the April and July 2017 monitoring events following the July 2016 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

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Project Manager

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FINAL

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

December 2017

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FINAL

SECOND SEMIANNUAL MONITORING REPORT
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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

December 2017

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

Prepared for
NGB/A4OR
3501 Fetchet Avenue
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Prepared by
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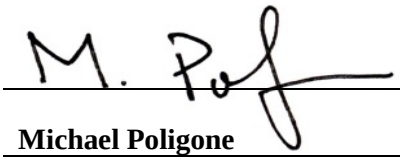
Second Semiannual Monitoring Report Certification

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 Second 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:	**12/15/17**

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CONTENTS

TABLES vii
FIGURES vii
ACRONYMS ix

1.0 INTRODUCTION 1-1
1.1 PROJECT PURPOSE AND SCOPE 1-1
1.2 SITE DESCRIPTION AND BACKGROUND 1-2
1.3 REMEDIAL ACTION OBJECTIVES 1-2
1.4 GROUNDWATER REMEDIAL ACTION OBJECTIVES 1-2
1.5 GENERAL REMEDIAL APPROACH UNDER THIS TASK ORDER 1-4
1.6 PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIVITIES 1-4
1.7 PREVIOUS REMEDIAL ACTIVITIES PERFORMED UNDER THIS TASK ORDER 1-4
1.7.1 Baseline Monitoring Event 1-4
1.7.2 July 2016 Bioremediation Injections 1-6
1.7.3 Second and Third Monitoring Events 1-6

2.0 CURRENT FIELD ACTIVITIES 2-1
2.1 GROUNDWATER SAMPLING METHODS AND PROCEDURES 2-1
2.2 DEVIATIONS FROM THE WORK PLAN 2-1
2.3 REMEDIATION-DERIVED WASTE 2-2

3.0 GROUNDWATER SAMPLING RESULTS 3-1
3.1 WATER LEVEL MEASUREMENTS 3-1
3.2 SAMPLING RESULTS 3-1
3.2.1 Fourth Monitoring Event 3-1
3.2.2 Fifth Monitoring Event 3-8
3.3 DISCUSSION 3-9

4.0 CONCLUSIONS 4-1

5.0 REFERENCES 5-1

APPENDIX A – PURGE LOGS A-1

APPENDIX B – ANALYTICAL LABORATORY DATA PACKAGES PERFORMANCE MONITORING – APRIL AND JULY 2017 (FOR HARD COPY VERSIONS OF THIS REPORT, ALL OF APPENDIX B IS INCLUDED ON THE COMPLETE DOCUMENT COMPACT DISC) B-1

APPENDIX C – FIELD CHANGE NOTICE 02 ..... C-1

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TABLES

1-1 Remedial Levels for Site 6 Groundwater COCs 1-2
2-1 Construction Details for Monitoring Wells 2-1
3-1 Water Level Measurements 3-1
3-2 May 2016 through July 2017 Monitoring Results 3-3

FIGURES

1-1 Site Features, Injection Wells, and Monitoring Locations for Site 6 Remedial Action 1-3
1-2 Groundwater Concentrations at Site 6, September 2013 to July 2017 1-5

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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
mS	milliSiemens
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
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 a bioremediation (e.g., biostimulation and/or bioaugmentation) injection event conducted from July 25 through 29, 2016. The first, or baseline, monitoring event was conducted in May 2016, and 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). The second and third monitoring events were conducted in October 2016 and January 2017, 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).

This report summarizes the results of the fourth and fifth groundwater monitoring events conducted April 12, and July 21, 2017, 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. 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 site closure. Quarterly and semiannual monitoring events will be 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.

Targeted bioremediation injections to treat chlorinated VOCs may be conducted at select wells if exceedances above NYSDEC groundwater standards remain present after multiple monitoring events. If targeted injections are necessary, details will be provided to ANG and NYSDEC for review and approval in an addendum to the current RAWP (Leidos 2016) prior to injection activities.

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 the 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, and to protect public health, welfare, or 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).

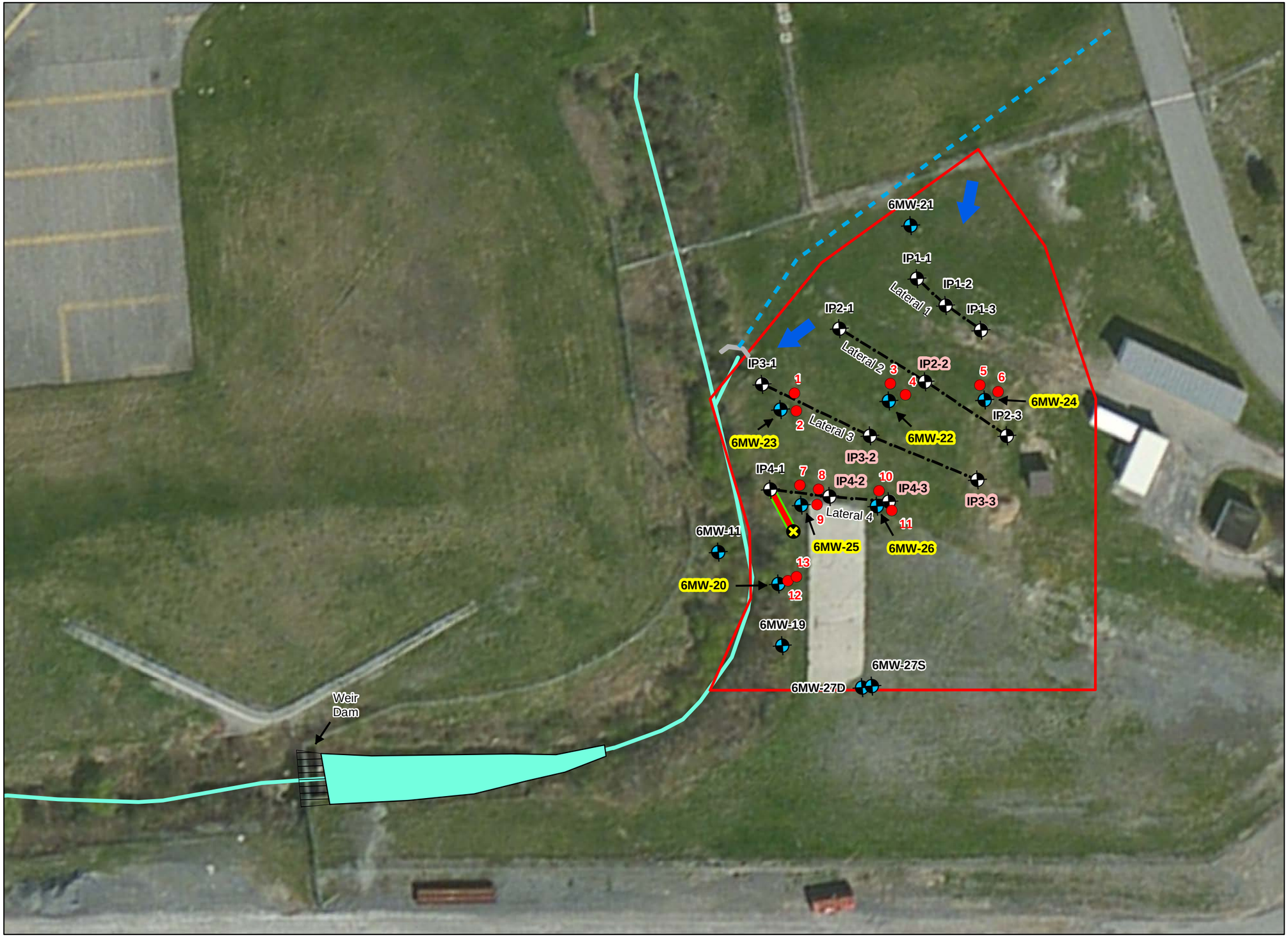
1.4 GROUNDWATER REMEDIAL ACTION OBJECTIVES

The ROD for Sites 3 and 6 identified site-related chemicals of concern (COCs) in soil and 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 NYSDEC Class GA AGWQS. Table 1-1 lists the remedial levels for Site 6.

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
- IP2-2 2016 Infusion Injection Location

NOTES

0 20 40 80 Feet

1 inch = 50 feet

Data Sources:
Background: ESRI World Imagery
(USDA NAIP, May 2015)

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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: 2/17/2017

PROJECT: \Eastern_IRP\6. GIS Files\Schenectady\Projects\LTM_Rpt_2017Jan\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 current 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 Remedial Action Completion Report (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 and a bioremediation injection event conducted in July 2016. Details of the baseline monitoring event and bioremediation injection activities were presented in the Remedial Action Completion Report (Leidos 2017a). 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 are discussed in Chapter 4.0.

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 provide current subsurface conditions and verify amendment quantities based on current 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 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

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

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-24 (4'-9') µg/L

Sample Date	2013 Sep	2014 Aug	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	0.25 U	0.25 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
TCE	**12.0**	**10.0**	**6.8**	**5.9**	4.9 J	3.2 J	4.6 J	**6.9**
cis-1,2-DCE	**14.0**	**9.7**	**5.2**	4.8 J	**13**	3.6 J	3 J	4.7 J
VC	0.50 U	0.50 U	1.0 U	1.0 U	**4.8 J**	1.6 J	0.52 J	1.3 J

6MW-23 (4'-9') µg/L

Sample Date	2013 Sep	2014 Aug	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	**5.9**	**16.0**	**7.7**	3.0 J	0.31 J	0.81 J	1.5 J	1 U
TCE	3.0	**5.4**	3.8	1.7 J	0.34 J	0.79 J	1.1 J	0.8 J
cis-1,2-DCE	**18.0**	**18.0**	**15.0**	**13**	1.3 J	0.93 J	0.85 J	2.1 J
VC	**3.2**	**2.0**	1.2	1.0 U	**6.4**	1 U	1 U	1.6 J

6MW-25 (4'-9') µg/L

Sample Date	2013 Sep	2014 Sep	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	4.5	**52.0**	**47.0**	**20**	1 U	1 U	1 U	1 U
TCE	**5.0**	**8.1**	**10.0**	**5.8**	1 U	1 U	1 U	1 U
cis-1,2-DCE	**220.0**	**36.0**	**68.0**	**58**	0.7 J	1.5 J	1.6 J	**5.8**
VC	**79.0**	0.50 U	**5.8**	**21**	1 U	1 U	1.4 J	**66**

6MW-22 (4'-9') µg/L

Sample Date	2014 Dec	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	**6.5**	**6.8**	3.4 J	1.6 J	**5.2**	4.8 J	1.4 J
TCE	**7.0**	**7.0**	3.6 J	1.2 J	2.2 J	1.9 J	1.7 J
cis-1,2-DCE	**16.0**	**19.0**	**16**	**36**	1.6 J	2.5 J	3.3 J
VC	0.50 U	0.61 J	1.0 U	**9.3**	**2.5 J**	**2.3 J**	**2.3 J**

6MW-26 (4'-9') µg/L

Sample Date	2013 Sep	2014 Aug	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	2.7	3.2	2.7	1.2 J	1 U	1 U	1 U	1 U
TCE	3.0	3.1	1.9	1.1 J	0.32 J	1 U	0.33 J	0.6 J
cis-1,2-DCE	**16.0**	**11.0**	**5.3**	**6.6 J**	2.6 J	2.5 J	1.8 J	2.4 J
VC	2.0	2.3	1.0 U	1.0 U	1 U	1 U	0.88 J	1.8 J

6MW-20 (5'-15') µg/L

Sample Date	2013 Sep	2014 Aug	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	0.32 J	0.33 J	**5.2**	0.86 J	1 U	1 U	1 U	1 U
TCE	0.51 J	1.2	1.9	1.5 J	1 U	1 U	1 U	1 U
cis-1,2-DCE	**22.0**	**19.0**	**6.8**	**6.8**	4.4 J	3.1 J	1.7 J	0.46 J
VC	**2.6**	**4.3**	1.0 U	1.0 U	**3.6 J**	**2.3 J**	1.7 J	1 U

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

6MW-21
IP1-1
IP1-2
IP1-3
Lateral 1
IP2-1
Lateral 2
IP2-2
IP2-3
6MW-24
6MW-22
6MW-23
IP3-1
IP3-2
IP3-3
Lateral 3
IP4-1
IP4-2
IP4-3
Lateral 4
6MW-25
6MW-26
6MW-11
Non-Detect
6MW-20
6MW-19
6MW-27D
6MW-27S
Non-Detect
Non-Detect

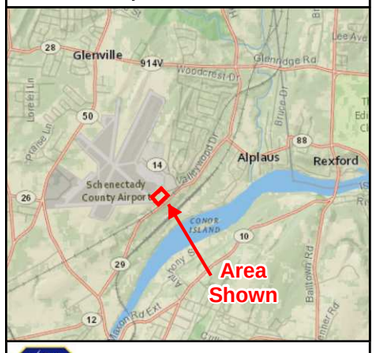
0 20 40 80 Feet
1 inch = 50 feet

Background: ESRI World Imagery (USDA NAIP, May 2015)

Legend

- Monitoring Well
- Infusion Point
- Collection Sump
- 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
- 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 sampling events were deleted so most recent data can be clearly inserted.



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GROUNDWATER CONCENTRATIONS AT SITE 6, SEPTEMBER 2013 TO JULY 2017

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

FIGURE: 1-2 | DATE: 9/27/2017

PROJECT: \Eastern_IRP\6. GIS Files\Schenectady\Projects\LTM_Rpt_2017July\Figure 1-2 GW Concentrations at Site 6_11x17.mxd

was sampled for DHC and contained 357 cells/mL, considered to be in the moderate range (100 to 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. However, the addition of an electron donor, such as emulsified vegetable oil (EVO), will increase TOC and may stimulate DHC growth and enhance anaerobic bioremediation when DHC concentrations are in the moderate range.

1.7.2 July 2016 Bioremediation Injections

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 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.

For the second monitoring event in October 2016, the results indicate significant changes since the baseline event (May 2016), and the desired progression of degradation from parent to daughter solvent 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. The results are summarized below:

- PCE maximum detected contaminant concentrations included 1.6J µg/L compared to 20 µg/L of PCE in the baseline monitoring event. No wells exceeded the NYSDEC groundwater standard of 5 µg/L during the second monitoring event.

- TCE maximum detected contaminant concentrations included 4.9J µg/L compared to 5.9 µg/L of TCE in the baseline monitoring event. No wells exceeded the NYSDEC groundwater standard of 5 µg/L.

- cis-1,2-DCE maximum detected contaminant concentrations included 36 µg/L compared to 58 µg/L of cis-1,2-DCE in the baseline monitoring event. Two of six wells exceeded the NYSDEC groundwater standard of 5 µg/L.

- VC maximum detected contaminant concentrations included 9.3 µg/L compared to 21 µg/L of VC in the baseline monitoring event. Four of six wells exceeded the NYSDEC groundwater standard of 2 µg/L.

- TOC concentrations ranged from 1.2 to 370 mg/L, and four of six wells were above the minimum level (i.e., 20 mg/L) considered optimum for reductive dechlorination.

For the third monitoring event in January 2017, the results continued to indicate significant changes since the baseline event (May 2016), and the desired progression of degradation from parent to daughter solvent compounds is evident in all six monitoring wells. Decreased PCE; TCE; and cis-1,2-DCE concentrations, and fluctuations in VC in most monitoring wells, point to ongoing anaerobic reductive dechlorination. The results are summarized below:

- PCE maximum detected contaminant concentrations included 5.2 µg/L compared to 20 µg/L of PCE in the baseline monitoring event. One of six wells slightly exceeded the NYSDEC groundwater standard of 5 µg/L during the third monitoring event.

- TCE maximum detected contaminant concentrations included 3.2J µg/L compared to 5.9 µg/L of TCE in the baseline monitoring event. No wells exceeded the NYSDEC groundwater standard of 5 µg/L.

- cis-1,2-DCE maximum detected contaminant concentrations included 3.6J µg/L compared to 58 µg/L of cis-1,2-DCE in the baseline monitoring event. No wells exceeded the NYSDEC groundwater standard of 5 µg/L.

- VC maximum detected contaminant concentrations included 2.5J µg/L compared to 21 µg/L of VC in the baseline monitoring event. Two of six wells exceeded the NYSDEC groundwater standard of 2 µg/L.

- TOC concentrations ranged from 2.6 to 280 mg/L, and one of six wells were above the minimum level (i.e., 20 mg/L) considered optimum for reductive dechlorination.

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2.0 CURRENT FIELD ACTIVITIES

Field activities during this semiannual monitoring period consisted of two groundwater monitoring events. The fourth and fifth groundwater monitoring events since the initiation of Task Order 004 and the RAWP (Leidos 2016) were conducted on April 12, and July 21, 2017, 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.
BGS = Below ground surface.
BTOC = Below top of casing.
PVC = Polyvinyl chloride.
TOC = Top of casing.

Samples from the two monitoring events were submitted to TestAmerica Laboratories, Inc., located in Arvada, Colorado, 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 4.0.

2.2 DEVIATIONS FROM THE WORK PLAN

There were no deviations noted during the fourth or fifth 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 12 gal of liquid waste were generated during the two monitoring events.

3.0 GROUNDWATER SAMPLING RESULTS

The following sections present the results of the fourth and fifth groundwater monitoring events conducted in April and July 2017, respectively. The first event was the baseline groundwater monitoring event conducted in May 2016. Results of the second and third events (October 2016 and January 2017, respectively) are provided in Section 1.7.3. 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 April and July 2017 are presented in Table 3-1.

Table 3-1. Water Level Measurements

Well Identifier	TOC Elevation (ft AMSL)	Screened Interval	April 2017		July 2017	
			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	5.32	300.12	5.48	299.96
6MW-22	309.83	4.0 – 9.0	5.47	304.36	5.58	304.25
6MW-23	308.37	4.0 – 9.0	4.64	303.73	5.23	303.14
6MW-24	310.6	4.0 – 9.0	6.40	304.20	6.52	304.08
6MW-25	306.12	4.0 – 9.0	2.51	303.61	3.11	303.01
6MW-26	307.05	4.0 – 9.0	3.31	303.74	3.96	303.09

Source: TOC elevations were obtained from the Base Monitoring Well Inventory (December 15, 2014).
AMSL = Above mean sea level.
BTOC = Below top of casing.
TOC = Top of casing.

Groundwater elevations for Site 6 derived from the April 2017 water level measurements ranged from 300.12 ft above mean sea level (AMSL) at well 6MW-20, located adjacent to the drainage ditch, to 304.36 ft AMSL at well 6MW-22, located in the middle of the site. During the July 2017 event, groundwater elevations for the site ranged from 299.96 ft AMSL at well 6MW-20 to 304.25 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 monitoring from September 2013 through the latest monitoring event in July 2017. Table 3-2 summarizes the analytical results and field parameters since the baseline sampling in May 2016.

3.2.1 Fourth Monitoring Event

The fourth groundwater monitoring event was conducted on April 12, 2017, approximately 5.5 months after the most recent bioremediation injection (July 2016). 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 July 2017 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
Sample Identifier		6MW-2001	6MW-2001D	6MW-2002	6MW-2002D	6MW-2003	6MW-2003D	6MW-2004	6MW-2004D	6MW-2005	6MW-2005D
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
Groundwater Sample Type		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
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
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
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
General Chemistry (mg/L)											
Total Organic Carbon	--	3	3	1.2	NA	8.0	8.4	6.5	NA	8.6	NA
Dechlorinating Bacteria (cells/mL)											
Dehalococcoides sp.	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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
Oxidation-Reduction Potential (mV)	--	173	173	-224	-224	-174	-174	-160	-160	-201	-201
pH (S.U.)	--	6.75	6.75	6.51	6.51	6.34	6.34	6.50	6.50	6.63	6.63
Specific Conductance (mS/cm)	--	1.310	1.310	1.490	1.490	1.150	1.150	1.140	1.140	1.360	1.360
Temperature (°C)	--	17.9	17.91	16.37	16.37	16.00	16.00	10.77	10.77	20.21	20.21
Turbidity (NTU)	--	1.3	1.3	7.9	7.9	19.3	19.3	6.0	6.0	39.9	39.9
Water Level (ft BGS)	--	7.33	7.33	6.43	6.43	5.68	5.68	5.32	5.32	5.48	5.48

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 July 2017 Monitoring Results

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
Sample Identifier		**6MW-2201**	**6MW-2202**	**6MW-2203**	**6MW-2204**	**6MW-2205**	**6MW-2301**	**6MW-2302**	**6MW-2303**	**6MW-2304**	**6MW-2305**
Date		**05/11/16**	**10/11/16**	**01/09/17**	**04/12/17**	**07/21/17**	**05/12/16**	**10/11/16**	**01/09/17**	**04/12/17**	**07/21/17**
Groundwater Sample Type		**Grab**	**Grab**	**Grab**	**Grab**	**Grab**	**Grab**	**Grab**	**Grab**	**Grab**	**Grab**
Volatile Organic Compounds (µg/L)											
Tetrachloroethene	5	3.4 J	1.6 J	**5.2**	4.8 J	1.4 J	3 J	0.31 J	0.81 J	1.5 J	1.0 U
Trichloroethene	5	3.6 J	1.2 J	2.2 J	1.9 J	1.7 J	1.7 J	0.34 J	0.79 J	1.1 J	0.8 J
cis-1,2-Dichloroethene	5	**16**	**36**	1.6 J	2.5 J	3.3 J	**13**	1.3 J	0.93 J	0.85 J	2.1 J
Vinyl Chloride	2	1.0 U	**9.3**	**2.5 J**	**2.3 J**	**2.3 J**	1.0 U	**6.4**	1.0 U	1.0 U	1.6 J
General Chemistry (mg/L)											
Total Organic Carbon	--	2.5	370	280	74	83	2.8	41	2.6	2.8	3.9
Dechlorinating Bacteria (cells/mL)											
Dehalococcoides sp.	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements											
Dissolved Oxygen (mg/L)	--	4.78	0.00	6.60	4.32	10.88	3.20	0.00	7.55	7.62	6.11
Oxidation-Reduction Potential (mV)	--	194	-174	-134	-157	-187	-37	-154	-104	-30	-193
pH (S.U.)	--	6.87	6.34	6.73	6.54	6.47	6.81	6.66	7.1	6.79	6.61
Specific Conductance (mS/cm)	--	1.400	1.150	1.120	1.230	1.260	1.120	1.020	0.490	0.280	0.825
Temperature (°C)	--	18.78	16	5.2	10.02	20.47	13.84	17.94	4.5	9.51	20.67
Turbidity (NTU)	--	1.4	19.3	0.0	51.1	60.4	1.1	30.5	0.0	32.0	32.0
Water Level (ft BGS)	--	6.89	6.79	6.45	5.47	5.58	6.31	6.38	5.75	4.64	5.23

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 July 2017 Monitoring Results

Well Identifier	NYSDEC AGWQS (1998, last amended June 2004)	6MW-24	6MW-24	6MW-24	6MW-24	6MW-24	6MW-25	6MW-25	6MW-25	6MW-25	6MW-25
Sample Identifier		**6MW-2401**	**6MW-2402**	**6MW-2403**	**6MW-2404**	**6MW-2405**	**6MW-2501**	**6MW-2502**	**6MW-2503**	**6MW-2504**	**6MW-2505**
Date		**05/12/16**	**10/11/16**	**01/09/17**	**04/12/17**	**07/21/17**	**05/11/16**	**10/11/16**	**01/09/17**	**04/12/17**	**07/21/17**
Groundwater Sample Type		**Grab**	**Grab**	**Grab**	**Grab**	**Grab**	**Grab**	**Grab**	**Grab**	**Grab**	**Grab**
Volatile Organic Compounds (µg/L)											
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**20**	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	**5.9**	4.9 J	3.2 J	4.6 J	**6.9**	**5.8**	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	4.8 J	**13**	3.6 J	3 J	4.7 J	**58**	0.7 J	1.5 J	1.6 J	**5.8**
Vinyl Chloride	2	1.0 U	**4.8 J**	1.6 J	0.52 J	1.3 J	**21**	1.0 U	1.0 U	1.4 J	**66**
General Chemistry (mg/L)											
Total Organic Carbon	--	5.3	12	9.4	6.9	5.9	2.3	110	5.1	4.6	4.4
Dechlorinating Bacteria (cells/mL)											
Dehalococcoides sp.	--	NA	NA	NA	NA	NA	357	NA	NA	NA	NA
Field Measurements											
Dissolved Oxygen (mg/L)	--	7.59	0.00	8.40	4.74	5.21	3.41	0.00	6.37	6.83	5.12
Oxidation-Reduction Potential (mV)	--	237	-285	-125	-42	-250	12	-356	-110	-84	-252
pH (S.U.)	--	7.24	6.91	7.15	6.85	6.83	6.87	6.59	7.11	6.61	6.79
Specific Conductance (mS/cm)	--	1.260	0.965	1.400	1.420	1.310	1.920	1.770	0.348	0.179	1.220
Temperature (°C)	--	9.54	15.57	4.6	9.59	20.80	14.49	20.37	4.1	10.71	22.16
Turbidity (NTU)	--	1.3	5.6	0.0	6.4	41.2	1.9	5.4	0.0	76.1	54.1
Water Level (ft BGS)	--	7.82	7.39	6.74	6.40	6.52	4.13	4.19	3.50	2.51	3.11

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 July 2017 Monitoring Results

Well Identifier	NYSDEC AGWQS (1998, last amended June 2004)	6MW-26	6MW-26	6MW-26	6MW-26	6MW-26
Sample Identifier		6MW-2601	6MW-2602	6MW-2603	6MW-2604	6MW-2605
Date		05/11/16	10/11/16	01/09/17	04/12/17	07/21/17
Groundwater Sample Type		Grab	Grab	Grab	Grab	Grab
Volatile Organic Compounds (µg/L)						
Tetrachloroethene	5	1.2 J	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.1 J	0.32 J	1.0 U	0.33 J	0.6 J
cis-1,2-Dichloroethene	5	**6.6**	2.6 J	2.5 J	1.8 J	2.4 J
Vinyl Chloride	2	1.0 U	1.0 U	1.0 U	0.88 J	1.8 J
General Chemistry (mg/L)						
Total Organic Carbon	--	2.6	70	6.1	3.5	5.4
Dechlorinating Bacteria (cells/mL)						
Dehalococcoides sp.	--	NA	NA	NA	NA	NA
Field Measurements						
Dissolved Oxygen (mg/L)	--	3.77	0.00	7.01	5.20	8.46
Oxidation-Reduction Potential (mV)	--	43	-201	-130	-208	-228
pH (S.U.)	--	7.01	6.67	7.15	6.71	6.68
Specific Conductance (mS/cm)	--	1.430	1.900	1.700	1.250	1.370
Temperature (°C)	--	13.73	18.31	4.2	11.29	21.07
Turbidity (NTU)	--	1.4	0.0	0.0	24.1	62.0
Water Level (ft BGS)	--	4.97	5.09	4.45	3.31	3.96

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 detected in two of the six wells at an estimated concentration of 4.8J µg/L at well 6MW-22 and of 1.5J µg/L at well 6MW-23, below the NYSDEC groundwater standard of 5 µg/L.

TCE was detected in four of the six wells at estimated concentrations ranging from 0.33J µg/L at well 6MW-26 to 4.6J µg/L at well 6MW-24. No wells exceeded the NYSDEC groundwater standard of 5 µg/L.

cis-1,2-DCE was detected in all six wells at estimated concentrations ranging from 0.85J µg/L at well 6MW-23 to 3J µg/L at well 6MW-24. No wells exceeded the NYSDEC groundwater standard of 5 µg/L.

VC was detected in five of the six wells at concentrations ranging from 0.52J µg/L at well 6MW-24 to 2.3J µg/L at well 6MW-22. One of the six wells (6MW-22) had a detected concentration that exceeded the NYSDEC groundwater standard of 2 µg/L.

TOC

TOC was detected at concentrations ranging from 2.8 to 74 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 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 April 2017 event ranged from 4.32 to 7.62 mg/L. All six wells had DO concentrations greater than 1 mg/L, indicating conditions were not conducive to anaerobic dechlorination. However, VC may be oxidized aerobically.

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 -208 to -30 mV. Three of the six wells had levels less than -100 mV, indicating conditions were ideal for anaerobic dechlorination.

pH measurements ranged from 6.50 to 6.85 standard units (S.U.). All six wells were within the optimal range of 6.5 to 8.5 S.U. for anaerobic dechlorination.

Specific conductivity indicates the amount of dissolved solids in a 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 0.280 to 1.420 milliSiemens (mS)/cm,with a median of 1.23 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 reading ranged from 6 to 76.0 nephelometric turbidity units (NTUs), with a median turbidity of 28.05 NTUs. Overall, turbidity has been decreasing, indicating a dispersion of the amendment solution.

3.2.2 Fifth Monitoring Event

The fifth monitoring event was conducted on July 21, 2017, approximately 12 months after the most recent bioremediation injection (July 2016). Groundwater samples were collected from six monitoring wells (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26).

COCs

PCE was detected in one of the six wells at an estimated concentration of 1.4J µg/L at well 6MW-22, well below the NYSDEC groundwater standard of 5 µg/L.

TCE was detected in four of the six wells at estimated concentrations ranging from 0.60J µg/L at well 6MW-26 to 6.9 µg/L at well 6MW-24. One of the six wells (6MW-24) had a detected concentration above the NYSDEC groundwater standard of 5 µg/L.

cis-1,2-DCE was detected in all six wells at estimated concentrations ranging from 0.46J µg/L at well 6MW-20 to 5.8 µg/L at well 6MW-25. One of the six wells (6MW-25) had a detected concentration above the NYSDEC groundwater standard of 5 µg/L.

VC was detected in five of the six wells at estimated concentrations ranging from 1.3J µg/L at well 6MW-24 to 66 µg/L at well 6MW-25. One of the six wells (6MW-25) had a detected concentration that exceeded the NYSDEC groundwater standard of 2 µg/L.

TOC

TOC is a measure of nutrients available to support microbial activity. TOC was detected at concentrations ranging from 3.9 to 83 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 July 2017 event ranged from 5.12 to 10.88 mg/L. DO concentrations increased to above 1 mg/L in all monitoring wells, indicating an environment not conducive to anaerobic dechlorination. However, VC may be oxidized aerobically.

ORP ranged from -252 to -187 mV. All six wells had levels less than -100 mV, indicating conditions were ideal for anaerobic dechlorination.

pH ranged from 6.47 to 6.83 S.U. All six wells were within the optimal range of 6.5 to 8.5 S.U. for anaerobic dechlorination.

Specific conductivity values ranged from 0.825 to 1.370 mS/cm, with a median of 1.285 mS/cm; the median of all six wells increased from 0.917 mS/cm in April 2017 to 1.224 mS/cm in July 2017. Overall, there has been a negligible change in conductivity since the May 2016 baseline monitoring event.

Final July 2017 turbidity readings ranged from 32.0 to 62.0 NTUs and were similar to the April 2017 results.

3.3 DISCUSSION

The results of the fourth and fifth groundwater monitoring events indicate significant changes since the first, or baseline, event (May 2016), and the desired progression of degradation from parent to daughter solvent 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. In April 2017, only 6MW-22 had a COC concentration (VC at 2.3J µg/L) above NYSDEC groundwater standards. All six wells had reductions in concentrations below NYSDEC standards, most notably at well 6MW-25.

Results from the July 2017 event showed COCs above NYSDEC groundwater standards in three of the six wells. TCE exceeded the NYSDEC standard in well 6MW-24 and cis-1,2-DCE and VC exceeded the NYSDEC standard in well 6MW-25, showing minor to moderate rebound in both of the wells, respectively. VC also exceeded the NYSDEC standard in well 6MW-22 at a concentration that was the same as the April 2017 sampling event.

TOC remains above the minimum optimum level in just one well (6MW-22). ORP values indicate anaerobic conditions favorable for reductive dechlorination. However, DO concentrations above 1.0 mg/L indicate the treatment area may be converting to an aerobic environment to complete the degradation of residual chlorinated daughter products by natural attenuation.

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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 fourth and fifth groundwater monitoring events were conducted in April and July 2017, respectively. 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 solvent 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 July 2017 event showed COCs above NYSDEC groundwater standards in only three of the six wells. TCE exceeded the NYSDEC standard in well 6MW-24 and cis-1,2-DCE and VC exceeded the NYSDEC standard in well 6MW-25, showing minor to moderate rebound in both of the wells, respectively. VC also exceeded the NYSDEC standard in well 6MW-22 at a concentration that was the same as the April 2017 sampling event.

A second supplemental bioremediation injection will be conducted in spring 2018 in accordance with the RAWP (Leidos 2016) and based on the October 2017 and March 2018 monitoring events. Field Change Notice FCN-02 is included in Appendix C and presents the monitoring wells with contaminant concentrations exceeding NYSDEC criteria, the injection locations near those monitoring wells with exceedances, and the proposed injection quantities for each injection well. The next monitoring event is scheduled in March 2018 prior to proposed injection activities. The March 2018 monitoring data along with the October 2017 monitoring data will be evaluated prior to the proposed supplemental injections resulting in potential changes to FCN-02 included in Appendix C.

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5.0 REFERENCES

ANG (Air National Guard) 2012. *Record of Decision for Sites 3 and 6 for the 109th Airlift Wing, Schenectady Air National Guard Base, Scotia, New York*, Final, March.

ANG 2015. *Remedial Action Completion Report for Soil at Sites 3 and 6, Schenectady Air National Guard Base*, March.

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.

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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APRIL 2017

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GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 4/12/17 TIME: 7 : 54

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: 40460007

WATER LEVEL INDICATOR ID: Geotech # 82050013

PUMP ID: 106294

TURBIDITY ID: 40460007

PID ID: N/A

DEPTH TO WATER: 5.32 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 8.8 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 13.8 (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: 7:54 PURGE END TIME: 8:15

TOTAL VOLUME PURGED: 3.5 liters

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

RECORDED BY: MA (Signature) QA CHECKED BY: MM (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
7:54	—	150	-151	10.74	6.37	1.15 (ms/cm) or S/m	8.15	16.3	5.32	
7:57	.5	150	-153	10.86	6.42	1.14 (ms/cm) or S/m	6.81	11.9	5.32	
8:00	1 L	150	-153	10.92	6.45	1.13 (ms/cm) or S/m	6.42	9.5	5.32	
8:03	1.5	150	-155	10.97	6.47	1.13 (ms/cm) or S/m	6.15	8.0	5.32	
8:06	2 L	150	-159	10.92	6.49	1.13 (ms/cm) or S/m	5.94	6.7	5.32	
8:09	2.5	150	-161	10.86	6.50	1.14 (ms/cm) or S/m	5.72	6.1	5.32	
8:12	3 L	150	-160	10.97	6.50	1.14 (ms/cm) or S/m	5.71	6.3	5.32	
8:15	3.5	150	-160	10.77	6.50	1.14 ms/cm or S/m	5.69	6.0	5.32	
	✓	✓	✓	✓	✓	✓ ms/cm or S/m	✓	✓	✓	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: MJ (Signature)

QA CHECKED BY: M PT (Signature)

A-6

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 4/12/17 TIME: 9 : 15

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: 4046007

WATER LEVEL INDICATOR ID: Geotech # 82050013

PUMP ID: 106244

TURBIDITY ID: 4046007

PID ID: N/A

DEPTH TO WATER: 5.47 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6 ~~(4~~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: 9:45 PURGE END TIME: 9:36

TOTAL VOLUME PURGED: 3.5 liters

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

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

A-7

GROUND WATER MICRO PURGE LOG

WELL ID: 6-MW-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
9:15	–	150	-148	9.40	6.57	1.25 ms/cm or S/m	6.17	57.5	5.47	
9:18	.5	150	-150	9.48	6.55	1.25 ms/cm or S/m	5.10	56.5	5.49	
9:21	1 L	150	-152	9.57	6.55	1.24 ms/cm or S/m	4.78	55.2	5.49	
9:24	1.5	150	-155	9.85	6.54	1.24 ms/cm or S/m	4.51	52.4	5.49	
9:27	2 L	150	-156	9.96	6.54	1.23 ms/cm or S/m	4.49	52.2	5.49	
9:30	2.5	150	-157	9.98	6.54	1.23 ms/cm or S/m	4.37	51.7	5.49	
9:33	3 L	150	-157	10.02	6.54	1.23 ms/cm or S/m	4.34	51.4	5.49	
9:36	3.5	150	-157	10.02	6.54	1.23 ms/cm or S/m	4.32	51.1	5.49	
	✓	✓	✓	✓	✓	✓ ms/cm or S/m	✓	✓	✓	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: MH (Signature)

QA CHECKED BY: MH (Signature)

A-8

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 4/12/17 TIME: 10 : 08

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: O.75 inches 2 inches (4 inches)

WATER QUALITY METER ID: 40466007

WATER LEVEL INDICATOR ID: Geotech # 82050013

PUMP ID: 106294

TURBIDITY ID: 40466007

PID ID: N/A

DEPTH TO WATER: 4.64 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: 10:08 PURGE END TIME: 10:32

TOTAL VOLUME PURGED: 4 liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] 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: 6-MW-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
10:08	—	150	-48	9.73	7.10	0.275 ms/cm or S/m	10.12	44.0	4.64	
10:11	.5	150	-43	9.64	7.00	0.273 ms/cm or S/m	9.37	38.7	4.64	
10:14	1 L	150	-39	9.68	6.91	0.273 ms/cm or S/m	8.66	34.8	4.64	
10:17	1.5	150	-30	9.42	6.81	0.278 ms/cm or S/m	8.29	34.6	4.64	
10:20	2 L	150	-30	9.41	6.81	0.278 ms/cm or S/m	8.27	34.5	4.64	
10:23	2.5	150	-30	9.40	6.79	0.280 ms/cm or S/m	8.18	32.9	4.64	
10:26	3 L	150	-30	9.49	6.79	0.280 ms/cm or S/m	7.69	32.7	4.64	
10:29	3.5	150	-30	9.51	6.79	0.280 ms/cm or S/m	7.66	32.5	4.64	
10:32	4 L	150	-30	9.51	6.79	0.280 ms/cm or S/m	7.62	32.0	4.64	
	✓	✓	✓	✓	✓	✓ 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-10

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 4/12/17 TIME: 11 : 09

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: 4046007

WATER LEVEL INDICATOR ID: Geotech # 820 5003

PUMP ID: 106294

TURBIDITY ID: 4046007

PID ID: N/A

DEPTH TO WATER: 6.40 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: (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: 11:09 PURGE END TIME: 11:30

TOTAL VOLUME PURGED: 3.5 Liters

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

RECORDED BY: AMB (Signature) QA CHECKED BY: MM (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
11:09	-	150	-48	9.00	6.84	1.43 ms/cm or S/m	6.70	8.0	6.40	
11:12	.5	150	-49	8.91	6.84	1.44 ms/cm or S/m	5.89	7.5	6.42	
11:15	1.2	100	-49	8.89	6.85	1.44 ms/cm or S/m	5.53	7.2	6.42	
11:18	1.5	100	-48	9.16	6.85	1.43 ms/cm or S/m	5.09	6.8	6.42	
11:21	2.2	100	-47	9.37	6.85	1.43 ms/cm or S/m	4.89	6.4	6.42	
11:24	2.5	100	-44	9.67	6.85	1.42 ms/cm or S/m	4.79	6.9	6.42	
11:27	3.2	100	-42	9.57	6.85	1.42 ms/cm or S/m	4.76	6.7	6.42	
11:30	3.5	100	-42	9.59	6.85	1.42 ms/cm or S/m	4.74	6.4	6.42	
		✓	✓	✓	✓	✓ ms/cm or S/m	✓	✓	✓	
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
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						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: MJP (Signature)

QA CHECKED BY: MW (Signature)

A-12

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 4/12/07 TIME: 12:18

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: 4046007

WATER LEVEL INDICATOR ID: Geotech # 82050013

PUMP ID: 106294

TURBIDITY ID: 4046007

PID ID: N/A

DEPTH TO WATER: 2.51 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6 ft (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: 12:18 PURGE END TIME: 12:45

TOTAL VOLUME PURGED: 4.5 1,400

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

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

GROUND WATER MICRO PURGE LOG

WELL ID: 6-MW-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
12:18	-	150	-20	10.50	7.08	0.172 ms/cm or S/m	8.74	87.1	2.51	
12:21	.5	150	-21	10.47	6.92	0.171 ms/cm or S/m	8.00	84.2	2.51	
12:24	1 L	150	-30	10.41	6.79	0.170 ms/cm or S/m	7.92	83.6	2.51	
12:27	1.5	150	-38	10.40	6.74	0.170 ms/cm or S/m	7.83	84.1	2.51	
12:30	2 L	150	-44	10.41	6.66	0.171 ms/cm or S/m	7.17	82.6	2.51	
12:33	2.5	150	-70	10.55	6.64	0.175 ms/cm or S/m	7.09	77.7	2.51	
12:36	3 L	150	-81	10.66	6.61	0.179 ms/cm or S/m	6.89	76.9	2.51	
12:39	3.5	150	-81	10.69	6.61	0.179 ms/cm or S/m	6.88	76.8	2.51	
12:42	4 L	150	-83	10.71	6.61	0.179 ms/cm or S/m	6.85	76.5	2.51	
12:45	4.5	150	-84	10.71	6.61	0.179 ms/cm or S/m	6.83	76.1	2.51	
		✓	✓	✓	✓	✓ 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: MJB (Signature)

QA CHECKED BY: MM (Signature)

A-14

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 4/12/17 TIME: 1 : 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: O.75 inches 2 inches (4 inches)

WATER QUALITY METER ID: 40460007

WATER LEVEL INDICATOR ID: Geotech # 82050013

PUMP ID: 106294

TURBIDITY ID: 40460007

PID ID: N/A

DEPTH TO WATER: 3.31 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6 ft (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: 1:45 PURGE END TIME: 1:36

TOTAL VOLUME PURGED: 3.5 liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] 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: 6-MW-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
1:15	-	150	-188	11.16	6.70	1.26 ms/cm or S/m	7.68	51.4	3.31	
1:18	.5	150	-192	11.16	6.71	1.25 ms/cm or S/m	6.49	44.3	3.33	
1:21	1 L	150	-196	11.36	6.71	1.25 ms/cm or S/m	5.91	36.5	3.33	
1:24	1.5	150	-200	11.24	6.71	1.25 ms/cm or S/m	5.53	28.4	3.33	
1:27	2 L	150	-205	11.23	6.71	1.25 ms/cm or S/m	5.29	24.9	3.33	
1:30	2.5	150	-207	11.27	6.71	1.25 ms/cm or S/m	5.26	24.6	3.33	
1:33	3 L	150	-207	11.29	6.71	1.25 ms/cm or S/m	5.23	24.4	3.33	
1:36	3.5	150	-208	11.29	6.71	1.25 ms/cm or S/m	5.20	24.1	3.33	
		✓	✓	✓	✓	✓ 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)

A-16

JULY 2017

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GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 7/21/17 TIME: 4 : 30

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: 4046007

WATER LEVEL INDICATOR ID: Geb MP30

PUMP ID: Geo-tech pump (Artech)

TURBIDITY ID: 4046007

PID ID: N/A

DEPTH TO WATER: 5.48 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 8.8 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 13 ft (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

PURGE START TIME: 9:11 PURGE END TIME: 9:29

TOTAL VOLUME PURGED: 1.05 1,405

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

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

A-19

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
9:11	0	150	-199	20.19	6.62	1.41 ms/cm or S/m	9.20	75.3	5.48	
9:14	0.3	150	-198	19.80	6.62	1.38 ms/cm or S/m	7.88	79.7	5.84	
9:17	0.45	150	-200	19.75	6.62	1.37 ms/cm or S/m	7.02	67.9	5.84	
9:20	0.6	150	-201	19.97	6.63	1.36 ms/cm or S/m	6.49	53.7	5.84	
9:23	0.75	150	-201	20.09	6.63	1.36 ms/cm or S/m	6.47	40.9	5.84	
9:26	0.9	150	-201	20.17	6.63	1.36 ms/cm or S/m	6.44	40.2	5.84	
9:29	1.05	150	-201	20.21	6.63	1.36 ms/cm or S/m	6.43	39.9	5.84	
			✓	✓	✓	✓ ms/cm or S/m	–	–	✓	Sampled @ 9:35
						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				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

A-20

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 9/21/17 TIME: 11 : 00

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: 4046007

WATER LEVEL INDICATOR ID: Geo MP30

PUMP ID: Geo-tech pump (Aztech)

TURBIDITY ID: 4046007

PID ID: N/A

DEPTH TO WATER: 5.58 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6.5 ft (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

PURGE START TIME: 10:37 PURGE END TIME: 10:58

TOTAL VOLUME PURGED: 1.2 Liters

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

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

GROUND WATER MICRO PURGE LOG

WELL ID: GMW-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
10:37	0	150	-183	20.72	6.49	1.31 ms/cm or S/m	7.22	375.0	5.58	
10:40	0.3	150	-182	19.51	6.47	1.30 ms/cm or S/m	7.98	249.0	5.62	
10:43	0.45	150	-183	19.88	6.46	1.29 ms/cm or S/m	10.08	116.0	5.62	
10:46	0.6	150	-184	20.05	6.46	1.28 ms/cm or S/m	10.80	111.0	5.62	
10:49	0.75	150	-184	20.24	6.46	1.27 ms/cm or S/m	10.82	95.0	5.62	
10:52	0.9	150	-186	20.50	6.47	1.26 ms/cm or S/m	10.89	92.0	5.62	
10:55	1.05	150	-187	20.45	6.47	1.26 ms/cm or S/m	10.87	76.4	5.62	
10:58	1.2	150	-187	20.47	6.47	1.26 ms/cm or S/m	10.88	60.4	5.62	
		✓	✓	✓	✓	ms/cm or S/m	✓	—		Sampled @ 11:05
						ms/cm or S/m				
						ms/cm or S/m				Turb. d.t/ not
						ms/cm or S/m				stab. last
						ms/cm or S/m				reps
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: MK (Signature)

A-22

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 7/21/17 TIME: 11 : 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: 4046007

WATER LEVEL INDICATOR ID: Geo MP30

PUMP ID: Geo-tech pump (Aztech)

TURBIDITY ID: 4046007

PID ID: N/A

DEPTH TO WATER: 5.23 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6.5 ft (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

PURGE START TIME: 11:30 PURGE END TIME: 11:54

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)

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
11:30	0	150	-163	21.79	6.59	0.708 (ms/cm or S/m)	8.03	93.7	5.23	
11:33	0.3	150	-172	21.19	6.58	0.716 (ms/cm or S/m)	5.81	84.4	5.23	
11:36	0.45	150	-178	20.99	6.59	0.742 (ms/cm or S/m)	5.53	57.9	5.23	
11:39	0.6	150	-184	20.94	6.60	0.780 (ms/cm or S/m)	5.40	44.1	5.23	
11:42	0.75	150	-188	21.15	6.61	0.790 (ms/cm or S/m)	5.32	40.3	5.23	
11:45	0.9	150	-141	20.60	6.61	0.824 (ms/cm or S/m)	6.20	38.9	5.23	
11:48	1.05	150	-192	20.61	6.61	0.824 (ms/cm or S/m)	6.18	32.9	5.23	
11:51	1.2	150	-192	20.65	6.61	0.824 (ms/cm or S/m)	6.15	32.4	5.23	
11:54	1.35	150	-193	20.67	6.61	0.825 (ms/cm or S/m)	6.11	32.0	5.23	
			/	/	/	/ ms/cm or S/m	/	/		sampled @ 12:00
						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): 7/21/17 TIME: 12:35

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: 4046007

WATER LEVEL INDICATOR ID: 606 MP 30

PUMP ID: 600-tech pump (AZtech)

TURBIDITY ID: 4046007

PID ID: N/A

DEPTH TO WATER: 6.52 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6.5ft (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

PURGE START TIME: 12:14 PURGE END TIME: 12:35

TOTAL VOLUME PURGED: 1.2 Liters

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

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

A-25

GROUND WATER MICRO PURGE LOG

WELL ID: 6MW-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
12:14	0	150	-262	18.46	6.94	1.32 (ms/cm) or S/m	6.58	143.0	6.52	
12:17	0.3	150	-265	18.61	6.93	1.31 (ms/cm) or S/m	6.21	126.0	6.58	
12:20	0.45	150	-272	19.41	6.90	1.31 (ms/cm) or S/m	5.68	87.4	6.58	
12:23	0.6	150	-266	19.74	6.89	1.31 (ms/cm) or S/m	5.51	69.6	6.58	
12:26	0.75	150	-262	20.25	6.87	1.31 (ms/cm) or S/m	5.37	49.9	6.58	
12:29	0.9	150	-252	20.74	6.83	1.31 (ms/cm) or S/m	5.29	41.8	6.58	
12:32	1.05	150	-252	20.84	6.83	1.31 (ms/cm) or S/m	5.26	41.5	6.58	
12:35	1.2	150	-250	20.80	6.83	1.31 (ms/cm) or S/m	5.21	41.2	6.58	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓	✓	sampled @ 12:40
						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): 7/21/17 TIME: 13:40

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: 4046007

WATER LEVEL INDICATOR ID: Solinst MP30

PUMP ID: Geo-tech pump (Aztech)

TURBIDITY ID: 4046007

PID ID: N/A

DEPTH TO WATER: 3.11 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6.5 ft (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: 1:10 PURGE END TIME: 1:34

TOTAL VOLUME PURGED: 1.33 Liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [X] 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	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
1:10	0	150	-214	22.18	6.74	1.15 ms/cm or S/m	7.44	147.0	3.11	
1:13	0.3	150	-216	21.84	6.72	1.13 ms/cm or S/m	6.84	141.0	3.11	
1:16	0.45	150	-225	21.42	6.71	1.14 ms/cm or S/m	5.89	115.0	3.11	
1:19	0.6	150	-232	22.35	6.72	1.14 ms/cm or S/m	5.48	89.9	3.11	
1:22	0.75	150	-241	22.25	6.76	1.18 ms/cm or S/m	5.39	71.8	3.11	
1:25	0.9	150	-247	22.13	6.77	1.20 ms/cm or S/m	5.25	59.9	3.11	
1:28	1.05	150	-251	22.21	6.79	1.22 ms/cm or S/m	5.18	54.9	3.11	
1:31	1.2	150	-251	22.07	6.79	1.22 ms/cm or S/m	5.15	54.6	3.11	
1:34	1.35	150	-252	22.16	6.79	1.22 ms/cm or S/m	5.12	54.1	3.11	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓		sampled @ 13:40
						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): 7/21/17 TIME: 14 : 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: 4041600?

WATER LEVEL INDICATOR ID: Geo MP30

PUMP ID: Geo tech pump (Aztech)

TURBIDITY ID: 4041600?

PID ID: N/A

DEPTH TO WATER: 3.96 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6.5 ft (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

PURGE START TIME: 1:59 PURGE END TIME: 2:23

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)

A-29

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
1:54	0	150	-205	22.14	6.75	1.40 ms/cm or S/m	10.11	195.0	3.96	
2:02	0.3	150	-211	21.46	6.71	1.37 ms/cm or S/m	7.25	183.0	3.96	
2:05	0.45	150	-215	21.25	6.69	1.36 ms/cm or S/m	6.46	150.0	3.96	
2:08	0.6	150	-217	21.44	6.69	1.35 ms/cm or S/m	6.06	117.0	3.96	
2:11	0.75	150	-220	21.28	6.69	1.35 ms/cm or S/m	7.64	89.7	3.96	
2:14	0.9	150	-221	21.23	6.69	1.35 ms/cm or S/m	8.02	75.5	3.96	
2:17	1.05	150	-226	21.24	6.68	1.37 ms/cm or S/m	8.40	62.7	3.96	
2:20	1.2	150	-227	21.05	6.68	1.37 ms/cm or S/m	8.42	62.4	3.96	
2:23	1.35	150	-228	21.07	6.68	1.37 ms/cm or S/m	8.46	62.0	3.46	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓	✓	Sampled @ 14:30
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

APPENDIX B – ANALYTICAL LABORATORY DATA PACKAGES PERFORMANCE MONITORING – APRIL AND JULY 2017

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

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APRIL 2017

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-95891-1

Job Description: Stratton ANGB, NY

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.
Jessica H DeHerrera
Project Manager I
4/27/2017 1:08 PM

Jessica H DeHerrera, Project Manager I
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0165
jessica.deherrera@testamericainc.com
04/27/2017

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.

Table of Contents

Cover Title Page 1

Data Summaries 4

Definitions 4

Case Narrative 5

Detection Summary 6

Client Sample Results 8

Default Detection Limits 20

Surrogate Summary 22

QC Sample Results 23

QC Association 32

Chronicle 33

Certification Summary 35

Method Summary 36

Sample Summary 37

Manual Integration Summary 38

Reagent Traceability 42

COAs 58

Organic Sample Data 138

GC/MS VOA 138

Method 8260C DOD 138

Method 8260C DOD QC Summary 139

Method 8260C DOD Sample Data 152

Standards Data 246

Method 8260C DOD ICAL Data 246

Method 8260C DOD CCAL Data 303

Raw QC Data 326

Table of Contents

Method 8260C DOD Tune Data 326

Method 8260C DOD Blank Data 334

Method 8260C DOD LCS/LCSD Data 341

Method 8260C DOD MS/MSD Data 356

Method 8260C DOD Run Logs 372

Inorganic Sample Data 374

General Chemistry Data 374

Gen Chem Cover Page 375

Gen Chem Sample Data 376

Gen Chem QC Data 382

Gen Chem ICV/CCV 382

Gen Chem Blanks 383

Gen Chem MS/MSD/PDS 384

Gen Chem LCS/LCSD 386

Gen Chem MDL 388

Gen Chem Analysis Run Log 390

Gen Chem Prep Data 392

Gen Chem Raw Data 393

Subcontracted Data 434

Shipping and Receiving Documents 435

Client Chain of Custody 436

Sample Receipt Checklist 439

Qualifiers

GC/MS VOA

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

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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

Report Number: 280-95891-1

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.

RECEIPT

The samples were received on 04/13/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8 C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples 6MW2004 (280-95891-1), 6MW2004D (280-95891-2), 6MW2204 (280-95891-3), 6MW2304 (280-95891-4), 6MW2404 (280-95891-5), 6MW2504 (280-95891-6), 6MW2604 (280-95891-7) and TB05 (280-95891-8) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with 8260C_DOD5. The samples were analyzed on 04/17/2017 and 04/18/2017.

Bromomethane failed the recovery criteria high for LCS 160-303915/5 and LCSD 160-303915/6. This analyte was biased high in the LCS/LCSD and was not detected above the Reporting Limit in the associated samples; therefore, the data have been reported. The associated results have been flagged accordingly.

Bromomethane failed the recovery criteria high for the MS and MSD of sample 6MW2004 (280-95891-1) in batch 160-303915. This analyte was not detected above the Reporting Limit in the associated samples. The associated results have been flagged accordingly.

The continuing calibration verification (CCV) associated with batch 160-303915 recovered above the upper control limit for Bromomethane, Chloroethane and Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes, except for Bromomethane which was detected but not above the Reporting Limit.; therefore, the data have been reported. The associated results have been flagged accordingly.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-303915: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be 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 6MW2004 (280-95891-1), 6MW2204 (280-95891-3), 6MW2304 (280-95891-4), 6MW2404 (280-95891-5), 6MW2504 (280-95891-6) and 6MW2604 (280-95891-7) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 04/21/2017.

Sample 6MW2204 (280-95891-3)[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.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-95891-1

Client Sample ID: 6MW2004 — Lab Sample ID: 280-95891-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.9	J	20	6.7	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	1.7	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	1.7	J M	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	6.5		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2004D — Lab Sample ID: 280-95891-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.3	J	20	6.7	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	1.7	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	1.7	J M	5.0	0.43	ug/L	1		8260C DOD	Total/NA

Client Sample ID: 6MW2204 — Lab Sample ID: 280-95891-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.9	J	20	0.39	ug/L	1		8260C DOD	Total/NA
Acetone	31		20	6.7	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	2.5	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Tetrachloroethene	4.8	J	5.0	0.28	ug/L	1		8260C DOD	Total/NA
trans-1,2-Dichloroethene	0.22	J	5.0	0.18	ug/L	1		8260C DOD	Total/NA
Trichloroethene	1.9	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	2.3	J M	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	74		2.0	0.31	mg/L	2		9060A	Total/NA

Client Sample ID: 6MW2304 — Lab Sample ID: 280-95891-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Bromomethane	0.70	J M Q	10	0.40	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	0.85	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Tetrachloroethene	1.5	J	5.0	0.28	ug/L	1		8260C DOD	Total/NA
Trichloroethene	1.1	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	2.8		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2404 — Lab Sample ID: 280-95891-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Bromomethane	0.83	J M Q	10	0.40	ug/L	1		8260C DOD	Total/NA
Chloroform	0.84	J	5.0	0.15	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	3.0	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Trichloroethene	4.6	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	0.52	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	6.9		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2504 — Lab Sample ID: 280-95891-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Bromomethane	0.53	J Q	10	0.40	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	1.6	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	1.4	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	4.6		1.0	0.16	mg/L	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-95891-1

Client Sample ID: 6MW2604 — Lab Sample ID: 280-95891-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.8	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Trichloroethene	0.33	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	0.88	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	3.5		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: TB05 — Lab Sample ID: 280-95891-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.1	J	7.5	1.7	ug/L	1		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 6MW2004

Date Collected: 04/12/17 08:20
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-1

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	2.0	U	5.0	0.25	ug/L			04/17/17 20:31	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/17/17 20:31	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/17/17 20:31	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/17/17 20:31	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/17/17 20:31	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/17/17 20:31	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/17/17 20:31	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/17/17 20:31	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/17/17 20:31	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/17/17 20:31	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/17/17 20:31	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/17/17 20:31	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/17/17 20:31	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/17/17 20:31	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/17/17 20:31	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/17/17 20:31	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/17/17 20:31	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/17/17 20:31	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/17/17 20:31	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/17/17 20:31	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/17/17 20:31	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/17/17 20:31	1
Acetone	**9.9**	**J**	20	6.7	ug/L			04/17/17 20:31	1
Benzene	1.0	U	5.0	0.25	ug/L			04/17/17 20:31	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/17/17 20:31	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/17/17 20:31	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/17/17 20:31	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/17/17 20:31	1
Bromomethane	2.0	U J Q	10	0.40	ug/L			04/17/17 20:31	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/17/17 20:31	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/17/17 20:31	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/17/17 20:31	1
Chloroethane	1.0	U Q	10	0.38	ug/L			04/17/17 20:31	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/17/17 20:31	1
Chloromethane	2.0	U	10	0.55	ug/L			04/17/17 20:31	1
cis-1,2-Dichloroethene	**1.7**	**J**	5.0	0.16	ug/L			04/17/17 20:31	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/17/17 20:31	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/17/17 20:31	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/17/17 20:31	1
Dichlorodifluoromethane	2.0	U Q	10	0.45	ug/L			04/17/17 20:31	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/17/17 20:31	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/17/17 20:31	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/17/17 20:31	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/17/17 20:31	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/17/17 20:31	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/17/17 20:31	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/17/17 20:31	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/17/17 20:31	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/17/17 20:31	1

Client Sample ID: 6MW2004

Date Collected: 04/12/17 08:20
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-1

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/17/17 20:31	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 20:31	1
Styrene	1.0	U	5.0	0.35	ug/L			04/17/17 20:31	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 20:31	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/17/17 20:31	1
Toluene	1.0	U	5.0	1.0	ug/L			04/17/17 20:31	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/17/17 20:31	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/17/17 20:31	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			04/17/17 20:31	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/17/17 20:31	1
Vinyl chloride	**1.7**	**J M**	5.0	0.43	ug/L			04/17/17 20:31	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/17/17 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*81 - 118*		*04/17/17 20:31*	*1*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*		*04/17/17 20:31*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*04/17/17 20:31*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*04/17/17 20:31*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**6.5**		1.0	0.16	mg/L			04/21/17 01:15	1

Client Sample ID: 6MW2004D

Date Collected: 04/12/17 08:20
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-2

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	2.0	U	5.0	0.25	ug/L			04/17/17 22:37	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/17/17 22:37	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/17/17 22:37	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/17/17 22:37	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/17/17 22:37	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/17/17 22:37	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/17/17 22:37	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/17/17 22:37	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/17/17 22:37	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/17/17 22:37	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/17/17 22:37	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/17/17 22:37	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/17/17 22:37	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/17/17 22:37	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/17/17 22:37	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/17/17 22:37	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/17/17 22:37	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/17/17 22:37	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/17/17 22:37	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/17/17 22:37	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/17/17 22:37	1

Client Sample ID: 6MW2004D

Date Collected: 04/12/17 08:20
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-2

Matrix: Water

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)	2.0	U	20	0.33	ug/L			04/17/17 22:37	1
Acetone	**8.3**	**J**	20	6.7	ug/L			04/17/17 22:37	1
Benzene	1.0	U	5.0	0.25	ug/L			04/17/17 22:37	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/17/17 22:37	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/17/17 22:37	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/17/17 22:37	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/17/17 22:37	1
Bromomethane	2.0	U Q	10	0.40	ug/L			04/17/17 22:37	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/17/17 22:37	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/17/17 22:37	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/17/17 22:37	1
Chloroethane	1.0	U Q	10	0.38	ug/L			04/17/17 22:37	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/17/17 22:37	1
Chloromethane	2.0	U	10	0.55	ug/L			04/17/17 22:37	1
cis-1,2-Dichloroethene	**1.7**	**J**	5.0	0.16	ug/L			04/17/17 22:37	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/17/17 22:37	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/17/17 22:37	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/17/17 22:37	1
Dichlorodifluoromethane	2.0	U Q	10	0.45	ug/L			04/17/17 22:37	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/17/17 22:37	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/17/17 22:37	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/17/17 22:37	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/17/17 22:37	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/17/17 22:37	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/17/17 22:37	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/17/17 22:37	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/17/17 22:37	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/17/17 22:37	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/17/17 22:37	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 22:37	1
Styrene	1.0	U	5.0	0.35	ug/L			04/17/17 22:37	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 22:37	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/17/17 22:37	1
Toluene	1.0	U	5.0	1.0	ug/L			04/17/17 22:37	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/17/17 22:37	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/17/17 22:37	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			04/17/17 22:37	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/17/17 22:37	1
Vinyl chloride	**1.7**	**J M**	5.0	0.43	ug/L			04/17/17 22:37	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/17/17 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*81 - 118*		*04/17/17 22:37*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*04/17/17 22:37*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*04/17/17 22:37*	*1*
Toluene-d8 (Surr)	*102*		*89 - 112*		*04/17/17 22:37*	*1*

Client Sample ID: 6MW2204

Date Collected: 04/12/17 09:40
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-3

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	2.0	U	5.0	0.25	ug/L			04/17/17 23:03	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/17/17 23:03	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/17/17 23:03	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/17/17 23:03	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/17/17 23:03	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/17/17 23:03	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/17/17 23:03	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/17/17 23:03	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/17/17 23:03	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/17/17 23:03	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/17/17 23:03	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/17/17 23:03	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/17/17 23:03	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/17/17 23:03	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/17/17 23:03	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/17/17 23:03	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/17/17 23:03	1
2-Butanone (MEK)	**1.9**	**J**	20	0.39	ug/L			04/17/17 23:03	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/17/17 23:03	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/17/17 23:03	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/17/17 23:03	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/17/17 23:03	1
Acetone	**31**		20	6.7	ug/L			04/17/17 23:03	1
Benzene	1.0	U	5.0	0.25	ug/L			04/17/17 23:03	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/17/17 23:03	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/17/17 23:03	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/17/17 23:03	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/17/17 23:03	1
Bromomethane	2.0	U Q	10	0.40	ug/L			04/17/17 23:03	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/17/17 23:03	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/17/17 23:03	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/17/17 23:03	1
Chloroethane	1.0	U Q	10	0.38	ug/L			04/17/17 23:03	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/17/17 23:03	1
Chloromethane	2.0	U	10	0.55	ug/L			04/17/17 23:03	1
cis-1,2-Dichloroethene	**2.5**	**J**	5.0	0.16	ug/L			04/17/17 23:03	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/17/17 23:03	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/17/17 23:03	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/17/17 23:03	1
Dichlorodifluoromethane	2.0	U Q	10	0.45	ug/L			04/17/17 23:03	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/17/17 23:03	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/17/17 23:03	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/17/17 23:03	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/17/17 23:03	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/17/17 23:03	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/17/17 23:03	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/17/17 23:03	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/17/17 23:03	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/17/17 23:03	1

Client Sample ID: 6MW2204

Date Collected: 04/12/17 09:40
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-3

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/17/17 23:03	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 23:03	1
Styrene	1.0	U	5.0	0.35	ug/L			04/17/17 23:03	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 23:03	1
Tetrachloroethene	**4.8**	**J**	5.0	0.28	ug/L			04/17/17 23:03	1
Toluene	1.0	U	5.0	1.0	ug/L			04/17/17 23:03	1
trans-1,2-Dichloroethene	**0.22**	**J**	5.0	0.18	ug/L			04/17/17 23:03	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/17/17 23:03	1
Trichloroethene	**1.9**	**J**	5.0	0.29	ug/L			04/17/17 23:03	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/17/17 23:03	1
Vinyl chloride	**2.3**	**J M**	5.0	0.43	ug/L			04/17/17 23:03	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/17/17 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*81 - 118*		*04/17/17 23:03*	*1*
4-Bromofluorobenzene (Surr)	*105*		*85 - 114*		*04/17/17 23:03*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*04/17/17 23:03*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*04/17/17 23:03*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**74**		2.0	0.31	mg/L			04/21/17 02:01	2

Client Sample ID: 6MW2304

Date Collected: 04/12/17 10:40
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-4

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	2.0	U	5.0	0.25	ug/L			04/17/17 23:28	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/17/17 23:28	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/17/17 23:28	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/17/17 23:28	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/17/17 23:28	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/17/17 23:28	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/17/17 23:28	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/17/17 23:28	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/17/17 23:28	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/17/17 23:28	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/17/17 23:28	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/17/17 23:28	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/17/17 23:28	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/17/17 23:28	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/17/17 23:28	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/17/17 23:28	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/17/17 23:28	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/17/17 23:28	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/17/17 23:28	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/17/17 23:28	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/17/17 23:28	1

Client Sample ID: 6MW2304

Date Collected: 04/12/17 10:40
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-4

Matrix: Water

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)	2.0	U	20	0.33	ug/L			04/17/17 23:28	1
Acetone	10	U	20	6.7	ug/L			04/17/17 23:28	1
Benzene	1.0	U	5.0	0.25	ug/L			04/17/17 23:28	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/17/17 23:28	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/17/17 23:28	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/17/17 23:28	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/17/17 23:28	1
Bromomethane	**0.70**	**J M Q**	10	0.40	ug/L			04/17/17 23:28	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/17/17 23:28	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/17/17 23:28	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/17/17 23:28	1
Chloroethane	1.0	U Q	10	0.38	ug/L			04/17/17 23:28	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/17/17 23:28	1
Chloromethane	2.0	U	10	0.55	ug/L			04/17/17 23:28	1
cis-1,2-Dichloroethene	**0.85**	**J**	5.0	0.16	ug/L			04/17/17 23:28	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/17/17 23:28	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/17/17 23:28	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/17/17 23:28	1
Dichlorodifluoromethane	2.0	U Q	10	0.45	ug/L			04/17/17 23:28	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/17/17 23:28	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/17/17 23:28	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/17/17 23:28	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/17/17 23:28	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/17/17 23:28	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/17/17 23:28	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/17/17 23:28	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/17/17 23:28	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/17/17 23:28	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/17/17 23:28	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 23:28	1
Styrene	1.0	U	5.0	0.35	ug/L			04/17/17 23:28	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 23:28	1
Tetrachloroethene	**1.5**	**J**	5.0	0.28	ug/L			04/17/17 23:28	1
Toluene	1.0	U	5.0	1.0	ug/L			04/17/17 23:28	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/17/17 23:28	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/17/17 23:28	1
Trichloroethene	**1.1**	**J**	5.0	0.29	ug/L			04/17/17 23:28	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/17/17 23:28	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			04/17/17 23:28	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/17/17 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*		*04/17/17 23:28*	*1*
4-Bromofluorobenzene (Surr)	*102*		*85 - 114*		*04/17/17 23:28*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*04/17/17 23:28*	*1*
Toluene-d8 (Surr)	*102*		*89 - 112*		*04/17/17 23:28*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**2.8**		1.0	0.16	mg/L			04/21/17 02:17	1

Client Sample ID: 6MW2404

Date Collected: 04/12/17 11:35
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-5

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	2.0	U	5.0	0.25	ug/L			04/17/17 23:53	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/17/17 23:53	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/17/17 23:53	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/17/17 23:53	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/17/17 23:53	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/17/17 23:53	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/17/17 23:53	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/17/17 23:53	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/17/17 23:53	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/17/17 23:53	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/17/17 23:53	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/17/17 23:53	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/17/17 23:53	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/17/17 23:53	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/17/17 23:53	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/17/17 23:53	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/17/17 23:53	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/17/17 23:53	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/17/17 23:53	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/17/17 23:53	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/17/17 23:53	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/17/17 23:53	1
Acetone	10	U	20	6.7	ug/L			04/17/17 23:53	1
Benzene	1.0	U	5.0	0.25	ug/L			04/17/17 23:53	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/17/17 23:53	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/17/17 23:53	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/17/17 23:53	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/17/17 23:53	1
Bromomethane	**0.83**	**J M Q**	10	0.40	ug/L			04/17/17 23:53	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/17/17 23:53	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/17/17 23:53	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/17/17 23:53	1
Chloroethane	1.0	U Q	10	0.38	ug/L			04/17/17 23:53	1
Chloroform	**0.84**	**J**	5.0	0.15	ug/L			04/17/17 23:53	1
Chloromethane	2.0	U	10	0.55	ug/L			04/17/17 23:53	1
cis-1,2-Dichloroethene	**3.0**	**J**	5.0	0.16	ug/L			04/17/17 23:53	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/17/17 23:53	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/17/17 23:53	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/17/17 23:53	1
Dichlorodifluoromethane	2.0	U Q	10	0.45	ug/L			04/17/17 23:53	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/17/17 23:53	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/17/17 23:53	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/17/17 23:53	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/17/17 23:53	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/17/17 23:53	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/17/17 23:53	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/17/17 23:53	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/17/17 23:53	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/17/17 23:53	1

Client Sample ID: 6MW2404

Date Collected: 04/12/17 11:35
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-5

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/17/17 23:53	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 23:53	1
Styrene	1.0	U	5.0	0.35	ug/L			04/17/17 23:53	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 23:53	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/17/17 23:53	1
Toluene	1.0	U	5.0	1.0	ug/L			04/17/17 23:53	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/17/17 23:53	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/17/17 23:53	1
Trichloroethene	**4.6**	**J**	5.0	0.29	ug/L			04/17/17 23:53	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/17/17 23:53	1
Vinyl chloride	**0.52**	**J**	5.0	0.43	ug/L			04/17/17 23:53	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/17/17 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*81 - 118*		*04/17/17 23:53*	*1*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*		*04/17/17 23:53*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*04/17/17 23:53*	*1*
Toluene-d8 (Surr)	*102*		*89 - 112*		*04/17/17 23:53*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**6.9**		1.0	0.16	mg/L			04/21/17 03:09	1

Client Sample ID: 6MW2504

Date Collected: 04/12/17 12:50
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-6

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	2.0	U	5.0	0.25	ug/L			04/18/17 00:19	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/18/17 00:19	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/18/17 00:19	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/18/17 00:19	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/18/17 00:19	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/18/17 00:19	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/18/17 00:19	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/18/17 00:19	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/18/17 00:19	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/18/17 00:19	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/18/17 00:19	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/18/17 00:19	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/18/17 00:19	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/18/17 00:19	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/18/17 00:19	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/18/17 00:19	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/18/17 00:19	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/18/17 00:19	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/18/17 00:19	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/18/17 00:19	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/18/17 00:19	1

Client Sample ID: 6MW2504

Date Collected: 04/12/17 12:50
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-6

Matrix: Water

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)	2.0	U	20	0.33	ug/L			04/18/17 00:19	1
Acetone	10	U	20	6.7	ug/L			04/18/17 00:19	1
Benzene	1.0	U	5.0	0.25	ug/L			04/18/17 00:19	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/18/17 00:19	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/18/17 00:19	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/18/17 00:19	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/18/17 00:19	1
Bromomethane	**0.53**	**J Q**	10	0.40	ug/L			04/18/17 00:19	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/18/17 00:19	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/18/17 00:19	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/18/17 00:19	1
Chloroethane	1.0	U Q	10	0.38	ug/L			04/18/17 00:19	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/18/17 00:19	1
Chloromethane	2.0	U	10	0.55	ug/L			04/18/17 00:19	1
cis-1,2-Dichloroethene	**1.6**	**J**	5.0	0.16	ug/L			04/18/17 00:19	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/18/17 00:19	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/18/17 00:19	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/18/17 00:19	1
Dichlorodifluoromethane	2.0	U Q	10	0.45	ug/L			04/18/17 00:19	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/18/17 00:19	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/18/17 00:19	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/18/17 00:19	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/18/17 00:19	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/18/17 00:19	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/18/17 00:19	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/18/17 00:19	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/18/17 00:19	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/18/17 00:19	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/18/17 00:19	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/18/17 00:19	1
Styrene	1.0	U	5.0	0.35	ug/L			04/18/17 00:19	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/18/17 00:19	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/18/17 00:19	1
Toluene	1.0	U	5.0	1.0	ug/L			04/18/17 00:19	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/18/17 00:19	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/18/17 00:19	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			04/18/17 00:19	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/18/17 00:19	1
Vinyl chloride	**1.4**	**J**	5.0	0.43	ug/L			04/18/17 00:19	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/18/17 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*81 - 118*		*04/18/17 00:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*85 - 114*		*04/18/17 00:19*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*04/18/17 00:19*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*04/18/17 00:19*	*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			04/21/17 03:26	1

Client Sample ID: 6MW2604

Date Collected: 04/12/17 13:40
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-7

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	2.0	U	5.0	0.25	ug/L			04/18/17 00:44	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/18/17 00:44	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/18/17 00:44	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/18/17 00:44	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/18/17 00:44	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/18/17 00:44	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/18/17 00:44	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/18/17 00:44	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/18/17 00:44	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/18/17 00:44	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/18/17 00:44	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/18/17 00:44	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/18/17 00:44	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/18/17 00:44	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/18/17 00:44	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/18/17 00:44	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/18/17 00:44	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/18/17 00:44	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/18/17 00:44	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/18/17 00:44	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/18/17 00:44	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/18/17 00:44	1
Acetone	10	U	20	6.7	ug/L			04/18/17 00:44	1
Benzene	1.0	U	5.0	0.25	ug/L			04/18/17 00:44	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/18/17 00:44	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/18/17 00:44	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/18/17 00:44	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/18/17 00:44	1
Bromomethane	2.0	U Q	10	0.40	ug/L			04/18/17 00:44	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/18/17 00:44	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/18/17 00:44	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/18/17 00:44	1
Chloroethane	1.0	U Q	10	0.38	ug/L			04/18/17 00:44	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/18/17 00:44	1
Chloromethane	2.0	U	10	0.55	ug/L			04/18/17 00:44	1
cis-1,2-Dichloroethene	**1.8**	**J**	5.0	0.16	ug/L			04/18/17 00:44	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/18/17 00:44	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/18/17 00:44	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/18/17 00:44	1
Dichlorodifluoromethane	2.0	U Q	10	0.45	ug/L			04/18/17 00:44	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/18/17 00:44	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/18/17 00:44	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/18/17 00:44	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/18/17 00:44	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/18/17 00:44	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/18/17 00:44	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/18/17 00:44	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/18/17 00:44	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/18/17 00:44	1

Client Sample ID: 6MW2604

Date Collected: 04/12/17 13:40
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-7

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/18/17 00:44	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/18/17 00:44	1
Styrene	1.0	U	5.0	0.35	ug/L			04/18/17 00:44	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/18/17 00:44	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/18/17 00:44	1
Toluene	1.0	U	5.0	1.0	ug/L			04/18/17 00:44	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/18/17 00:44	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/18/17 00:44	1
Trichloroethene	**0.33**	**J**	5.0	0.29	ug/L			04/18/17 00:44	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/18/17 00:44	1
Vinyl chloride	**0.88**	**J**	5.0	0.43	ug/L			04/18/17 00:44	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/18/17 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*81 - 118*		*04/18/17 00:44*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*04/18/17 00:44*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 119*		*04/18/17 00:44*	*1*
Toluene-d8 (Surr)	*107*		*89 - 112*		*04/18/17 00:44*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.5**		1.0	0.16	mg/L			04/21/17 03:41	1

Client Sample ID: TB05

Date Collected: 04/12/17 08:00
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-8

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	2.0	U	5.0	0.25	ug/L			04/17/17 20:05	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/17/17 20:05	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/17/17 20:05	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/17/17 20:05	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/17/17 20:05	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/17/17 20:05	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/17/17 20:05	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/17/17 20:05	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/17/17 20:05	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/17/17 20:05	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/17/17 20:05	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/17/17 20:05	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/17/17 20:05	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/17/17 20:05	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/17/17 20:05	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/17/17 20:05	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/17/17 20:05	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/17/17 20:05	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/17/17 20:05	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/17/17 20:05	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/17/17 20:05	1

Client Sample ID: TB05

Date Collected: 04/12/17 08:00
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-8

Matrix: Water

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)	2.0	U	20	0.33	ug/L			04/17/17 20:05	1
Acetone	10	U	20	6.7	ug/L			04/17/17 20:05	1
Benzene	1.0	U	5.0	0.25	ug/L			04/17/17 20:05	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/17/17 20:05	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/17/17 20:05	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/17/17 20:05	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/17/17 20:05	1
Bromomethane	2.0	U Q	10	0.40	ug/L			04/17/17 20:05	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/17/17 20:05	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/17/17 20:05	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/17/17 20:05	1
Chloroethane	1.0	U Q	10	0.38	ug/L			04/17/17 20:05	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/17/17 20:05	1
Chloromethane	2.0	U	10	0.55	ug/L			04/17/17 20:05	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			04/17/17 20:05	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/17/17 20:05	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/17/17 20:05	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/17/17 20:05	1
Dichlorodifluoromethane	2.0	U Q	10	0.45	ug/L			04/17/17 20:05	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/17/17 20:05	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/17/17 20:05	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/17/17 20:05	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/17/17 20:05	1
Methylene Chloride	**2.1**	**J**	7.5	1.7	ug/L			04/17/17 20:05	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/17/17 20:05	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/17/17 20:05	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/17/17 20:05	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/17/17 20:05	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/17/17 20:05	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 20:05	1
Styrene	1.0	U	5.0	0.35	ug/L			04/17/17 20:05	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 20:05	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/17/17 20:05	1
Toluene	1.0	U	5.0	1.0	ug/L			04/17/17 20:05	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/17/17 20:05	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/17/17 20:05	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			04/17/17 20:05	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/17/17 20:05	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			04/17/17 20:05	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/17/17 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*04/17/17 20:05*	*1*
4-Bromofluorobenzene (Surr)	*102*		*85 - 114*		*04/17/17 20:05*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 119*		*04/17/17 20:05*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*04/17/17 20:05*	*1*

Default Detection Limits

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-95891-1

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

Analyte	LOQ	DL	Units	Method
1,1,1,2-Tetrachloroethane	5.0	0.25	ug/L	8260C DOD
1,1,1-Trichloroethane	5.0	0.29	ug/L	8260C DOD
1,1,2,2-Tetrachloroethane	5.0	0.43	ug/L	8260C DOD
1,1,2-Trichloroethane	5.0	0.57	ug/L	8260C DOD
1,1-Dichloroethane	5.0	0.39	ug/L	8260C DOD
1,1-Dichloroethene	5.0	0.37	ug/L	8260C DOD
1,1-Dichloropropene	5.0	0.30	ug/L	8260C DOD
1,2,3-Trichlorobenzene	5.0	0.65	ug/L	8260C DOD
1,2,3-Trichloropropane	5.0	0.56	ug/L	8260C DOD
1,2,4-Trimethylbenzene	5.0	0.40	ug/L	8260C DOD
1,2-Dibromo-3-Chloropropane	10	1.2	ug/L	8260C DOD
1,2-Dibromoethane	5.0	0.44	ug/L	8260C DOD
1,2-Dichloroethane	5.0	0.37	ug/L	8260C DOD
1,2-Dichloropropane	5.0	0.32	ug/L	8260C DOD
1,3,5-Trimethylbenzene	5.0	0.28	ug/L	8260C DOD
1,3-Dichloropropane	5.0	0.24	ug/L	8260C DOD
2,2-Dichloropropane	5.0	0.54	ug/L	8260C DOD
2-Butanone (MEK)	20	0.39	ug/L	8260C DOD
2-Chlorotoluene	5.0	0.34	ug/L	8260C DOD
2-Hexanone	20	0.59	ug/L	8260C DOD
4-Chlorotoluene	5.0	0.31	ug/L	8260C DOD
4-Methyl-2-pentanone (MIBK)	20	0.33	ug/L	8260C DOD
Acetone	20	6.7	ug/L	8260C DOD
Benzene	5.0	0.25	ug/L	8260C DOD
Bromobenzene	5.0	0.33	ug/L	8260C DOD
Bromochloromethane	5.0	0.55	ug/L	8260C DOD
Bromodichloromethane	5.0	0.25	ug/L	8260C DOD
Bromoform	5.0	0.37	ug/L	8260C DOD
Bromomethane	10	0.40	ug/L	8260C DOD
Carbon disulfide	5.0	0.37	ug/L	8260C DOD
Carbon tetrachloride	5.0	0.36	ug/L	8260C DOD
Chlorobenzene	5.0	0.38	ug/L	8260C DOD
Chloroethane	10	0.38	ug/L	8260C DOD
Chloroform	5.0	0.15	ug/L	8260C DOD
Chloromethane	10	0.55	ug/L	8260C DOD
cis-1,2-Dichloroethene	5.0	0.16	ug/L	8260C DOD
cis-1,3-Dichloropropene	5.0	0.34	ug/L	8260C DOD
Dibromochloromethane	5.0	0.33	ug/L	8260C DOD
Dibromomethane	5.0	0.41	ug/L	8260C DOD
Dichlorodifluoromethane	10	0.45	ug/L	8260C DOD
Ethylbenzene	5.0	0.30	ug/L	8260C DOD
Isopropylbenzene	5.0	0.26	ug/L	8260C DOD
m,p-Xylenes	5.0	0.57	ug/L	8260C DOD
Methyl tert-butyl ether	5.0	0.40	ug/L	8260C DOD
Methylene Chloride	7.5	1.7	ug/L	8260C DOD
Naphthalene	5.0	0.85	ug/L	8260C DOD
n-Butylbenzene	5.0	0.23	ug/L	8260C DOD
N-Propylbenzene	5.0	0.30	ug/L	8260C DOD
o-Xylene	5.0	0.32	ug/L	8260C DOD
p-Isopropyltoluene	5.0	0.32	ug/L	8260C DOD
sec-Butylbenzene	5.0	0.31	ug/L	8260C DOD
Styrene	5.0	0.35	ug/L	8260C DOD

Default Detection Limits

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-95891-1

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

Analyte	LOQ	DL	Units	Method
tert-Butylbenzene	5.0	0.31	ug/L	8260C DOD
Tetrachloroethene	5.0	0.28	ug/L	8260C DOD
Toluene	5.0	1.0	ug/L	8260C DOD
trans-1,2-Dichloroethene	5.0	0.18	ug/L	8260C DOD
trans-1,3-Dichloropropene	5.0	0.35	ug/L	8260C DOD
Trichloroethene	5.0	0.29	ug/L	8260C DOD
Trichlorofluoromethane	5.0	0.22	ug/L	8260C DOD
Vinyl chloride	5.0	0.43	ug/L	8260C DOD
Xylenes (total)	10	0.85	ug/L	8260C DOD

General Chemistry

Analyte	LOQ	DL	Units	Method
Total Organic Carbon - Quad	1.0	0.16	mg/L	9060A

Surrogate Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-95891-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
280-95891-1	6MW2004	107	104	100	101
280-95891-1 MS	6MW2004MS	105	90	103	99
280-95891-1 MSD	6MW2004MSD	101	91	101	96
280-95891-2	6MW2004D	109	107	102	102
280-95891-3	6MW2204	105	105	101	101
280-95891-4	6MW2304	103	102	100	102
280-95891-5	6MW2404	106	104	103	102
280-95891-6	6MW2504	104	101	101	101
280-95891-7	6MW2604	113	107	107	107
280-95891-8	TB05	99	102	96	101
LCS 160-303915/5	Lab Control Sample	102	93	99	101
LCSD 160-303915/6	Lab Control Sample Dup	102	93	100	100
MB 160-303915/9	Method Blank	99	104	93	101

Surrogate Legend

12DCE = 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 160-303915/9
Matrix: Water
Analysis Batch: 303915

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			04/17/17 19:40	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/17/17 19:40	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/17/17 19:40	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/17/17 19:40	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/17/17 19:40	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/17/17 19:40	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/17/17 19:40	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/17/17 19:40	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/17/17 19:40	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/17/17 19:40	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/17/17 19:40	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/17/17 19:40	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/17/17 19:40	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/17/17 19:40	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/17/17 19:40	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/17/17 19:40	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/17/17 19:40	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/17/17 19:40	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/17/17 19:40	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/17/17 19:40	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/17/17 19:40	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/17/17 19:40	1
Acetone	10	U	20	6.7	ug/L			04/17/17 19:40	1
Benzene	1.0	U	5.0	0.25	ug/L			04/17/17 19:40	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/17/17 19:40	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/17/17 19:40	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/17/17 19:40	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/17/17 19:40	1
Bromomethane	2.0	U	10	0.40	ug/L			04/17/17 19:40	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/17/17 19:40	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/17/17 19:40	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/17/17 19:40	1
Chloroethane	1.0	U	10	0.38	ug/L			04/17/17 19:40	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/17/17 19:40	1
Chloromethane	2.0	U	10	0.55	ug/L			04/17/17 19:40	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			04/17/17 19:40	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/17/17 19:40	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/17/17 19:40	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/17/17 19:40	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/17/17 19:40	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/17/17 19:40	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/17/17 19:40	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/17/17 19:40	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/17/17 19:40	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/17/17 19:40	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/17/17 19:40	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/17/17 19:40	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/17/17 19:40	1

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

Lab Sample ID: MB 160-303915/9
Matrix: Water
Analysis Batch: 303915

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1.0	U	5.0	0.32	ug/L			04/17/17 19:40	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/17/17 19:40	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 19:40	1
Styrene	1.0	U	5.0	0.35	ug/L			04/17/17 19:40	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/17/17 19:40	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/17/17 19:40	1
Toluene	1.0	U	5.0	1.0	ug/L			04/17/17 19:40	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/17/17 19:40	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/17/17 19:40	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			04/17/17 19:40	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/17/17 19:40	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			04/17/17 19:40	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/17/17 19:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*04/17/17 19:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*		*04/17/17 19:40*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 119*		*04/17/17 19:40*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*04/17/17 19:40*	*1*

Lab Sample ID: LCS 160-303915/5
Matrix: Water
Analysis Batch: 303915

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	50.3		ug/L		101	78 - 124
1,1,1-Trichloroethane	50.0	51.3		ug/L		103	74 - 131
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	71 - 121
1,1,2-Trichloroethane	50.0	49.4		ug/L		99	80 - 119
1,1-Dichloroethane	50.0	50.9		ug/L		102	77 - 125
1,1-Dichloroethene	50.0	49.2		ug/L		98	71 - 131
1,1-Dichloropropene	50.0	48.4		ug/L		97	79 - 125
1,2,3-Trichlorobenzene	50.0	48.7		ug/L		97	69 - 129
1,2,3-Trichloropropane	50.0	50.8		ug/L		102	73 - 122
1,2,4-Trimethylbenzene	50.0	54.1		ug/L		108	76 - 124
1,2-Dibromo-3-Chloropropane	50.0	49.6		ug/L		99	62 - 128
1,2-Dibromoethane	50.0	49.2		ug/L		98	80 - 120
1,2-Dichloroethane	50.0	49.8		ug/L		100	73 - 128
1,2-Dichloropropane	50.0	48.5		ug/L		97	78 - 122
1,3,5-Trimethylbenzene	50.0	53.2		ug/L		106	75 - 124
1,3-Dichloropropane	50.0	48.4		ug/L		97	80 - 119
2,2-Dichloropropane	50.0	48.5		ug/L		97	60 - 139
2-Butanone (MEK)	50.0	47.1		ug/L		94	56 - 143
2-Chlorotoluene	50.0	52.5		ug/L		105	79 - 122
2-Hexanone	50.0	49.8		ug/L		100	57 - 139
4-Chlorotoluene	50.0	52.0		ug/L		104	78 - 122
4-Methyl-2-pentanone (MIBK)	50.0	51.3		ug/L		103	67 - 130
Acetone	50.0	43.1		ug/L		86	39 - 160

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

Lab Sample ID: LCS 160-303915/5
Matrix: Water
Analysis Batch: 303915

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.2		ug/L		96	79 - 120
Bromobenzene	50.0	49.9		ug/L		100	80 - 120
Bromochloromethane	50.0	48.5		ug/L		97	78 - 123
Bromodichloromethane	50.0	50.0		ug/L		100	79 - 125
Bromoform	50.0	52.4		ug/L		105	66 - 130
Bromomethane	50.0	70.8	Q	ug/L		142	53 - 141
Carbon disulfide	50.0	49.6		ug/L		99	64 - 133
Carbon tetrachloride	50.0	51.5		ug/L		103	72 - 136
Chlorobenzene	50.0	50.7		ug/L		101	82 - 118
Chloroethane	50.0	64.4		ug/L		129	60 - 138
Chloroform	50.0	50.0		ug/L		100	79 - 124
Chloromethane	50.0	58.5		ug/L		117	50 - 139
cis-1,2-Dichloroethene	50.0	47.8		ug/L		96	78 - 123
cis-1,3-Dichloropropene	50.0	48.7		ug/L		97	75 - 124
Dibromochloromethane	50.0	50.3		ug/L		101	74 - 126
Dibromomethane	50.0	49.6		ug/L		99	79 - 123
Dichlorodifluoromethane	50.0	60.1		ug/L		120	32 - 152
Ethylbenzene	50.0	48.1		ug/L		96	79 - 121
Isopropylbenzene	50.0	48.9		ug/L		98	72 - 131
m,p-Xylenes	50.0	48.4		ug/L		97	80 - 121
Methyl tert-butyl ether	50.0	46.1		ug/L		92	71 - 124
Methylene Chloride	50.0	47.7		ug/L		95	74 - 124
Naphthalene	50.0	46.3		ug/L		93	61 - 128
n-Butylbenzene	50.0	53.9		ug/L		108	75 - 128
N-Propylbenzene	50.0	51.0		ug/L		102	76 - 126
o-Xylene	50.0	47.8		ug/L		96	78 - 122
p-Isopropyltoluene	50.0	53.5		ug/L		107	77 - 127
sec-Butylbenzene	50.0	51.9		ug/L		104	77 - 126
Styrene	50.0	51.6		ug/L		103	78 - 123
tert-Butylbenzene	50.0	53.2		ug/L		106	78 - 124
Tetrachloroethene	50.0	50.3		ug/L		101	74 - 129
Toluene	50.0	48.6		ug/L		97	80 - 121
trans-1,2-Dichloroethene	50.0	48.0		ug/L		96	75 - 124
trans-1,3-Dichloropropene	50.0	50.6		ug/L		101	73 - 127
Trichloroethene	50.0	50.5		ug/L		101	79 - 123
Trichlorofluoromethane	50.0	56.4		ug/L		113	65 - 141
Vinyl chloride	50.0	55.5		ug/L		111	58 - 137
Xylenes (total)	100	96.2		ug/L		96	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*
4-Bromofluorobenzene (Surr)	*93*		*85 - 114*
Dibromofluoromethane (Surr)	*99*		*80 - 119*
Toluene-d8 (Surr)	*101*		*89 - 112*

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

Lab Sample ID: LCSD 160-303915/6
Matrix: Water
Analysis Batch: 303915

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	50.5		ug/L		101	78 - 124	0	20
1,1,1-Trichloroethane	50.0	51.6		ug/L		103	74 - 131	1	20
1,1,2,2-Tetrachloroethane	50.0	52.2		ug/L		104	71 - 121	4	20
1,1,2-Trichloroethane	50.0	50.3		ug/L		101	80 - 119	2	20
1,1-Dichloroethane	50.0	51.7		ug/L		103	77 - 125	2	20
1,1-Dichloroethene	50.0	50.0		ug/L		100	71 - 131	1	20
1,1-Dichloropropene	50.0	49.5		ug/L		99	79 - 125	2	20
1,2,3-Trichlorobenzene	50.0	53.0		ug/L		106	69 - 129	8	20
1,2,3-Trichloropropane	50.0	52.8		ug/L		106	73 - 122	4	20
1,2,4-Trimethylbenzene	50.0	55.8		ug/L		112	76 - 124	3	20
1,2-Dibromo-3-Chloropropane	50.0	55.1		ug/L		110	62 - 128	11	20
1,2-Dibromoethane	50.0	50.3		ug/L		101	80 - 120	2	20
1,2-Dichloroethane	50.0	51.9		ug/L		104	73 - 128	4	20
1,2-Dichloropropane	50.0	50.0		ug/L		100	78 - 122	3	20
1,3,5-Trimethylbenzene	50.0	54.5		ug/L		109	75 - 124	2	20
1,3-Dichloropropane	50.0	49.3		ug/L		99	80 - 119	2	20
2,2-Dichloropropane	50.0	49.8		ug/L		100	60 - 139	3	20
2-Butanone (MEK)	50.0	51.4		ug/L		103	56 - 143	9	20
2-Chlorotoluene	50.0	52.8		ug/L		106	79 - 122	1	20
2-Hexanone	50.0	54.8		ug/L		110	57 - 139	10	20
4-Chlorotoluene	50.0	52.7		ug/L		105	78 - 122	1	20
4-Methyl-2-pentanone (MIBK)	50.0	55.3		ug/L		111	67 - 130	8	20
Acetone	50.0	47.4		ug/L		95	39 - 160	10	20
Benzene	50.0	49.6		ug/L		99	79 - 120	3	20
Bromobenzene	50.0	50.0		ug/L		100	80 - 120	0	20
Bromochloromethane	50.0	50.3		ug/L		101	78 - 123	4	20
Bromodichloromethane	50.0	51.6		ug/L		103	79 - 125	3	20
Bromoform	50.0	52.0		ug/L		104	66 - 130	1	20
Bromomethane	50.0	72.4	Q	ug/L		145	53 - 141	2	20
Carbon disulfide	50.0	50.4		ug/L		101	64 - 133	2	20
Carbon tetrachloride	50.0	51.7		ug/L		103	72 - 136	1	20
Chlorobenzene	50.0	51.8		ug/L		104	82 - 118	2	20
Chloroethane	50.0	65.3	M	ug/L		131	60 - 138	1	20
Chloroform	50.0	51.0		ug/L		102	79 - 124	2	20
Chloromethane	50.0	60.8		ug/L		122	50 - 139	4	20
cis-1,2-Dichloroethene	50.0	48.9		ug/L		98	78 - 123	2	20
cis-1,3-Dichloropropene	50.0	50.2		ug/L		100	75 - 124	3	20
Dibromochloromethane	50.0	50.9		ug/L		102	74 - 126	1	20
Dibromomethane	50.0	50.6		ug/L		101	79 - 123	2	20
Dichlorodifluoromethane	50.0	62.0		ug/L		124	32 - 152	3	20
Ethylbenzene	50.0	48.7		ug/L		97	79 - 121	1	20
Isopropylbenzene	50.0	49.0		ug/L		98	72 - 131	0	20
m,p-Xylenes	50.0	50.0		ug/L		100	80 - 121	3	20
Methyl tert-butyl ether	50.0	48.7		ug/L		97	71 - 124	5	20
Methylene Chloride	50.0	50.1		ug/L		100	74 - 124	5	20
Naphthalene	50.0	51.4		ug/L		103	61 - 128	10	20
n-Butylbenzene	50.0	55.9		ug/L		112	75 - 128	4	20
N-Propylbenzene	50.0	51.4		ug/L		103	76 - 126	1	20

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

Lab Sample ID: LCSD 160-303915/6
Matrix: Water
Analysis Batch: 303915

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	48.9		ug/L		98	78 - 122	2	20
p-Isopropyltoluene	50.0	54.8		ug/L		110	77 - 127	2	20
sec-Butylbenzene	50.0	52.4		ug/L		105	77 - 126	1	20
Styrene	50.0	53.3		ug/L		107	78 - 123	3	20
tert-Butylbenzene	50.0	53.8		ug/L		108	78 - 124	1	20
Tetrachloroethene	50.0	50.7		ug/L		101	74 - 129	1	20
Toluene	50.0	49.1		ug/L		98	80 - 121	1	20
trans-1,2-Dichloroethene	50.0	48.8		ug/L		98	75 - 124	2	20
trans-1,3-Dichloropropene	50.0	50.8		ug/L		102	73 - 127	0	20
Trichloroethene	50.0	51.6		ug/L		103	79 - 123	2	20
Trichlorofluoromethane	50.0	55.7		ug/L		111	65 - 141	1	20
Vinyl chloride	50.0	56.5		ug/L		113	58 - 137	2	20
Xylenes (total)	100	98.9		ug/L		99	79 - 121	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*
4-Bromofluorobenzene (Surr)	*93*		*85 - 114*
Dibromofluoromethane (Surr)	*100*		*80 - 119*
Toluene-d8 (Surr)	*100*		*89 - 112*

Lab Sample ID: 280-95891-1 MS
Matrix: Water
Analysis Batch: 303915

Client Sample ID: 6MW2004MS
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	2.0	U	50.0	50.8		ug/L		102	78 - 124
1,1,1-Trichloroethane	1.0	U	50.0	51.5		ug/L		103	74 - 131
1,1,2,2-Tetrachloroethane	2.0	U	50.0	48.7		ug/L		97	71 - 121
1,1,2-Trichloroethane	1.0	U	50.0	49.8		ug/L		100	80 - 119
1,1-Dichloroethane	1.0	U	50.0	51.1		ug/L		102	77 - 125
1,1-Dichloroethene	1.0	U	50.0	48.9		ug/L		98	71 - 131
1,1-Dichloropropene	1.0	U	50.0	49.3		ug/L		99	79 - 125
1,2,3-Trichlorobenzene	2.0	U	50.0	42.5		ug/L		85	69 - 129
1,2,3-Trichloropropane	1.0	U	50.0	48.4		ug/L		97	73 - 122
1,2,4-Trimethylbenzene	2.0	U	50.0	49.4		ug/L		99	76 - 124
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	44.7		ug/L		89	62 - 128
1,2-Dibromoethane	2.0	U	50.0	49.6		ug/L		99	80 - 120
1,2-Dichloroethane	1.0	U	50.0	52.4		ug/L		105	73 - 128
1,2-Dichloropropane	1.0	U	50.0	50.5		ug/L		101	78 - 122
1,3,5-Trimethylbenzene	2.0	U	50.0	49.1		ug/L		98	75 - 124
1,3-Dichloropropane	1.0	U	50.0	49.3		ug/L		99	80 - 119
2,2-Dichloropropane	2.0	U	50.0	50.0		ug/L		100	60 - 139
2-Butanone (MEK)	5.0	U	50.0	48.6		ug/L		97	56 - 143
2-Chlorotoluene	2.0	U	50.0	50.0		ug/L		100	79 - 122
2-Hexanone	2.0	U	50.0	47.4		ug/L		95	57 - 139
4-Chlorotoluene	2.0	U	50.0	49.4		ug/L		99	78 - 122
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	48.9		ug/L		98	67 - 130
Acetone	9.9	J	50.0	49.9		ug/L		80	39 - 160

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

Lab Sample ID: 280-95891-1 MS
Matrix: Water
Analysis Batch: 303915

Client Sample ID: 6MW2004MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	1.0	U	50.0	49.4		ug/L		99	79 - 120
Bromobenzene	2.0	U	50.0	48.4		ug/L		97	80 - 120
Bromochloromethane	2.0	U	50.0	50.7		ug/L		101	78 - 123
Bromodichloromethane	2.0	U	50.0	51.8		ug/L		104	79 - 125
Bromoform	1.0	U	50.0	49.9		ug/L		100	66 - 130
Bromomethane	2.0	U J Q	50.0	71.6	J	ug/L		143	53 - 141
Carbon disulfide	1.0	U	50.0	49.6		ug/L		99	64 - 133
Carbon tetrachloride	1.0	U	50.0	51.5		ug/L		103	72 - 136
Chlorobenzene	1.0	U	50.0	51.1		ug/L		102	82 - 118
Chloroethane	1.0	U Q	50.0	64.5		ug/L		129	60 - 138
Chloroform	1.0	U	50.0	51.9		ug/L		104	79 - 124
Chloromethane	2.0	U	50.0	56.9		ug/L		114	50 - 139
cis-1,2-Dichloroethene	1.7	J	50.0	51.1		ug/L		99	78 - 123
cis-1,3-Dichloropropene	1.0	U	50.0	49.4		ug/L		99	75 - 124
Dibromochloromethane	1.0	U	50.0	50.8		ug/L		102	74 - 126
Dibromomethane	2.0	U	50.0	51.4		ug/L		103	79 - 123
Dichlorodifluoromethane	2.0	U Q	50.0	59.1		ug/L		118	32 - 152
Ethylbenzene	1.0	U	50.0	47.8		ug/L		96	79 - 121
Isopropylbenzene	2.0	U	50.0	46.6		ug/L		93	72 - 131
m,p-Xylenes	1.0	U	50.0	48.6		ug/L		97	80 - 121
Methyl tert-butyl ether	2.0	U	50.0	48.5		ug/L		97	71 - 124
Methylene Chloride	5.0	U	50.0	49.5		ug/L		99	74 - 124
Naphthalene	2.0	U	50.0	39.4		ug/L		79	61 - 128
n-Butylbenzene	2.0	U	50.0	48.4		ug/L		97	75 - 128
N-Propylbenzene	2.0	U	50.0	48.2		ug/L		96	76 - 126
o-Xylene	1.0	U	50.0	47.8		ug/L		96	78 - 122
p-Isopropyltoluene	2.0	U	50.0	49.1		ug/L		98	77 - 127
sec-Butylbenzene	2.0	U	50.0	48.5		ug/L		97	77 - 126
Styrene	1.0	U	50.0	52.1		ug/L		104	78 - 123
tert-Butylbenzene	2.0	U	50.0	50.0		ug/L		100	78 - 124
Tetrachloroethene	1.0	U	50.0	49.5		ug/L		99	74 - 129
Toluene	1.0	U	50.0	48.3		ug/L		97	80 - 121
trans-1,2-Dichloroethene	1.0	U	50.0	48.8		ug/L		98	75 - 124
trans-1,3-Dichloropropene	1.0	U	50.0	51.0		ug/L		102	73 - 127
Trichloroethene	1.0	U	50.0	51.3		ug/L		103	79 - 123
Trichlorofluoromethane	2.0	U	50.0	55.6		ug/L		111	65 - 141
Vinyl chloride	1.7	J M	50.0	54.6		ug/L		106	58 - 137
Xylenes (total)	5.0	U	100	96.4		ug/L		96	79 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*81 - 118*
4-Bromofluorobenzene (Surr)	*90*		*85 - 114*
Dibromofluoromethane (Surr)	*103*		*80 - 119*
Toluene-d8 (Surr)	*99*		*89 - 112*

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

Lab Sample ID: 280-95891-1 MSD
Matrix: Water
Analysis Batch: 303915

Client Sample ID: 6MW2004MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	2.0	U	50.0	49.9		ug/L		100	78 - 124	2	20
1,1,1-Trichloroethane	1.0	U	50.0	51.4		ug/L		103	74 - 131	0	20
1,1,2,2-Tetrachloroethane	2.0	U	50.0	48.8		ug/L		98	71 - 121	0	20
1,1,2-Trichloroethane	1.0	U	50.0	48.3		ug/L		97	80 - 119	3	20
1,1-Dichloroethane	1.0	U	50.0	50.7		ug/L		101	77 - 125	1	20
1,1-Dichloroethene	1.0	U	50.0	49.6		ug/L		99	71 - 131	1	20
1,1-Dichloropropene	1.0	U	50.0	49.1		ug/L		98	79 - 125	0	20
1,2,3-Trichlorobenzene	2.0	U	50.0	50.8		ug/L		102	69 - 129	18	20
1,2,3-Trichloropropane	1.0	U	50.0	48.5		ug/L		97	73 - 122	0	20
1,2,4-Trimethylbenzene	2.0	U	50.0	54.0		ug/L		108	76 - 124	9	20
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	48.6		ug/L		97	62 - 128	8	20
1,2-Dibromoethane	2.0	U	50.0	48.0		ug/L		96	80 - 120	3	20
1,2-Dichloroethane	1.0	U	50.0	51.5		ug/L		103	73 - 128	2	20
1,2-Dichloropropane	1.0	U	50.0	50.6		ug/L		101	78 - 122	0	20
1,3,5-Trimethylbenzene	2.0	U	50.0	52.9		ug/L		106	75 - 124	7	20
1,3-Dichloropropane	1.0	U	50.0	47.8		ug/L		96	80 - 119	3	20
2,2-Dichloropropane	2.0	U	50.0	49.4		ug/L		99	60 - 139	1	20
2-Butanone (MEK)	5.0	U	50.0	47.1		ug/L		94	56 - 143	3	20
2-Chlorotoluene	2.0	U	50.0	52.1		ug/L		104	79 - 122	4	20
2-Hexanone	2.0	U	50.0	46.7		ug/L		93	57 - 139	1	20
4-Chlorotoluene	2.0	U	50.0	51.7		ug/L		103	78 - 122	4	20
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	48.1		ug/L		96	67 - 130	2	20
Acetone	9.9	J	50.0	48.7		ug/L		78	39 - 160	2	20
Benzene	1.0	U	50.0	49.3		ug/L		99	79 - 120	0	20
Bromobenzene	2.0	U	50.0	49.4		ug/L		99	80 - 120	2	20
Bromochloromethane	2.0	U	50.0	50.3		ug/L		101	78 - 123	1	20
Bromodichloromethane	2.0	U	50.0	51.4		ug/L		103	79 - 125	1	20
Bromoform	1.0	U	50.0	48.7		ug/L		97	66 - 130	2	20
Bromomethane	2.0	U J Q	50.0	73.7	J	ug/L		147	53 - 141	3	20
Carbon disulfide	1.0	U	50.0	50.1		ug/L		100	64 - 133	1	20
Carbon tetrachloride	1.0	U	50.0	51.3		ug/L		103	72 - 136	0	20
Chlorobenzene	1.0	U	50.0	51.0		ug/L		102	82 - 118	0	20
Chloroethane	1.0	U Q	50.0	65.0		ug/L		130	60 - 138	1	20
Chloroform	1.0	U	50.0	51.6		ug/L		103	79 - 124	1	20
Chloromethane	2.0	U	50.0	60.3		ug/L		121	50 - 139	6	20
cis-1,2-Dichloroethene	1.7	J	50.0	51.0		ug/L		99	78 - 123	0	20
cis-1,3-Dichloropropene	1.0	U	50.0	48.9		ug/L		98	75 - 124	1	20
Dibromochloromethane	1.0	U	50.0	49.5		ug/L		99	74 - 126	3	20
Dibromomethane	2.0	U	50.0	50.5		ug/L		101	79 - 123	2	20
Dichlorodifluoromethane	2.0	U Q	50.0	60.4		ug/L		121	32 - 152	2	20
Ethylbenzene	1.0	U	50.0	47.7		ug/L		95	79 - 121	0	20
Isopropylbenzene	2.0	U	50.0	48.1		ug/L		96	72 - 131	3	20
m,p-Xylenes	1.0	U	50.0	49.1		ug/L		98	80 - 121	1	20
Methyl tert-butyl ether	2.0	U	50.0	48.1		ug/L		96	71 - 124	1	20
Methylene Chloride	5.0	U	50.0	50.0		ug/L		100	74 - 124	1	20
Naphthalene	2.0	U	50.0	47.9		ug/L		96	61 - 128	20	20
n-Butylbenzene	2.0	U	50.0	53.3		ug/L		107	75 - 128	10	20
N-Propylbenzene	2.0	U	50.0	50.2		ug/L		100	76 - 126	4	20

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

Lab Sample ID: 280-95891-1 MSD
Matrix: Water
Analysis Batch: 303915

Client Sample ID: 6MW2004MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	1.0	U	50.0	48.9		ug/L		98	78 - 122	2	20
p-Isopropyltoluene	2.0	U	50.0	52.7		ug/L		105	77 - 127	7	20
sec-Butylbenzene	2.0	U	50.0	51.1		ug/L		102	77 - 126	5	20
Styrene	1.0	U	50.0	52.7		ug/L		105	78 - 123	1	20
tert-Butylbenzene	2.0	U	50.0	53.1		ug/L		106	78 - 124	6	20
Tetrachloroethene	1.0	U	50.0	48.9		ug/L		98	74 - 129	1	20
Toluene	1.0	U	50.0	48.3		ug/L		97	80 - 121	0	20
trans-1,2-Dichloroethene	1.0	U	50.0	48.6		ug/L		97	75 - 124	0	20
trans-1,3-Dichloropropene	1.0	U	50.0	49.2		ug/L		98	73 - 127	4	20
Trichloroethene	1.0	U	50.0	51.0		ug/L		102	79 - 123	1	20
Trichlorofluoromethane	2.0	U	50.0	54.8		ug/L		110	65 - 141	2	20
Vinyl chloride	1.7	J M	50.0	57.3		ug/L		111	58 - 137	5	20
Xylenes (total)	5.0	U	100	98.0		ug/L		98	79 - 121	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*
4-Bromofluorobenzene (Surr)	*91*		*85 - 114*
Dibromofluoromethane (Surr)	*101*		*80 - 119*
Toluene-d8 (Surr)	*96*		*89 - 112*

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

Lab Sample ID: MB 280-370399/37
Matrix: Water
Analysis Batch: 370399

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

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			04/21/17 00:43	1

Lab Sample ID: LCS 280-370399/35
Matrix: Water
Analysis Batch: 370399

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Quad	25.0	25.6		mg/L		102	88 - 112

Lab Sample ID: LCSD 280-370399/36
Matrix: Water
Analysis Batch: 370399

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
Total Organic Carbon - Quad	25.0	25.8		mg/L		103	88 - 112	1	15

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

Lab Sample ID: 280-95891-4 MS
Matrix: Water
Analysis Batch: 370399

Client Sample ID: 6MW2304
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Quad	2.8		25.0	28.4		mg/L		102	88 - 112		

Lab Sample ID: 280-95891-4 MSD
Matrix: Water
Analysis Batch: 370399

Client Sample ID: 6MW2304
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Quad	2.8		25.0	28.9		mg/L		104	88 - 112	1	15

QC Association Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-95891-1

GC/MS VOA

Analysis Batch: 303915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95891-1	6MW2004	Total/NA	Water	8260C DOD	
280-95891-2	6MW2004D	Total/NA	Water	8260C DOD	
280-95891-3	6MW2204	Total/NA	Water	8260C DOD	
280-95891-4	6MW2304	Total/NA	Water	8260C DOD	
280-95891-5	6MW2404	Total/NA	Water	8260C DOD	
280-95891-6	6MW2504	Total/NA	Water	8260C DOD	
280-95891-7	6MW2604	Total/NA	Water	8260C DOD	
280-95891-8	TB05	Total/NA	Water	8260C DOD	
MB 160-303915/9	Method Blank	Total/NA	Water	8260C DOD	
LCS 160-303915/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 160-303915/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
280-95891-1 MS	6MW2004MS	Total/NA	Water	8260C DOD	
280-95891-1 MSD	6MW2004MSD	Total/NA	Water	8260C DOD	

General Chemistry

Analysis Batch: 370399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95891-1	6MW2004	Total/NA	Water	9060A	
280-95891-3	6MW2204	Total/NA	Water	9060A	
280-95891-4	6MW2304	Total/NA	Water	9060A	
280-95891-5	6MW2404	Total/NA	Water	9060A	
280-95891-6	6MW2504	Total/NA	Water	9060A	
280-95891-7	6MW2604	Total/NA	Water	9060A	
MB 280-370399/37	Method Blank	Total/NA	Water	9060A	
LCS 280-370399/35	Lab Control Sample	Total/NA	Water	9060A	
LCSD 280-370399/36	Lab Control Sample Dup	Total/NA	Water	9060A	
280-95891-4 MS	6MW2304	Total/NA	Water	9060A	
280-95891-4 MSD	6MW2304	Total/NA	Water	9060A	

Client Sample ID: 6MW2004
Date Collected: 04/12/17 08:20
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-1
Matrix: Water

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	303915	04/17/17 20:31	JDH	TAL SL
Total/NA	Analysis	9060A		1			370399	04/21/17 01:15	CCJ	TAL DEN

Client Sample ID: 6MW2004D
Date Collected: 04/12/17 08:20
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-2
Matrix: Water

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	303915	04/17/17 22:37	JDH	TAL SL

Client Sample ID: 6MW2204
Date Collected: 04/12/17 09:40
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-3
Matrix: Water

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	303915	04/17/17 23:03	JDH	TAL SL
Total/NA	Analysis	9060A		2			370399	04/21/17 02:01	CCJ	TAL DEN

Client Sample ID: 6MW2304
Date Collected: 04/12/17 10:40
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-4
Matrix: Water

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	303915	04/17/17 23:28	JDH	TAL SL
Total/NA	Analysis	9060A		1			370399	04/21/17 02:17	CCJ	TAL DEN

Client Sample ID: 6MW2404
Date Collected: 04/12/17 11:35
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-5
Matrix: Water

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	303915	04/17/17 23:53	JDH	TAL SL
Total/NA	Analysis	9060A		1			370399	04/21/17 03:09	CCJ	TAL DEN

Client Sample ID: 6MW2504
Date Collected: 04/12/17 12:50
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-6
Matrix: Water

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	303915	04/18/17 00:19	JDH	TAL SL
Total/NA	Analysis	9060A		1			370399	04/21/17 03:26	CCJ	TAL DEN

Lab Chronicle

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-95891-1

Client Sample ID: 6MW2604

Date Collected: 04/12/17 13:40
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-7

Matrix: Water

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	303915	04/18/17 00:44	JDH	TAL SL
Total/NA	Analysis	9060A		1			370399	04/21/17 03:41	CCJ	TAL DEN

Client Sample ID: TB05

Date Collected: 04/12/17 08:00
Date Received: 04/13/17 09:30

Lab Sample ID: 280-95891-8

Matrix: Water

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	303915	04/17/17 20:05	JDH	TAL SL

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-95891-1

Laboratory: 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 ELAP		2907.01	10-31-17

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

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

Laboratory: 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	06-30-17 *
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-17 *
Florida	NELAP	4	E87689	06-30-17 *
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17 *
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17 *
Nevada	State Program	9	MO000542017-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17 *
New York	NELAP	2	11616	03-31-17 *
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-18
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17 *
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

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

Method Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-95891-1

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

Protocol References:

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

Laboratory References:

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

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

Sample Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-95891-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-95891-1	6MW2004	Water	04/12/17 08:20	04/13/17 09:30
280-95891-2	6MW2004D	Water	04/12/17 08:20	04/13/17 09:30
280-95891-3	6MW2204	Water	04/12/17 09:40	04/13/17 09:30
280-95891-4	6MW2304	Water	04/12/17 10:40	04/13/17 09:30
280-95891-5	6MW2404	Water	04/12/17 11:35	04/13/17 09:30
280-95891-6	6MW2504	Water	04/12/17 12:50	04/13/17 09:30
280-95891-7	6MW2604	Water	04/12/17 13:40	04/13/17 09:30
280-95891-8	TB05	Water	04/12/17 08:00	04/13/17 09:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Instrument ID: VMSM Analysis Batch Number: 296453

Lab Sample ID: IC 160-296453/3 Client Sample ID:

Date Analyzed: 03/07/17 21:59 Lab File ID: MICL3849.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	3.20	Missed Peak	rhoadess	04/10/17 09:11
Iodomethane	5.35	Missed Peak	buettnera	04/10/17 09:11

Lab Sample ID: IC 160-296453/4 Client Sample ID:

Date Analyzed: 03/07/17 22:25 Lab File ID: MICL3850.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	3.20	Missed Peak	rhoadess	04/10/17 09:11
Iodomethane	5.35	Missed Peak	buettnera	04/10/17 09:11

Lab Sample ID: IC 160-296453/5 Client Sample ID:

Date Analyzed: 03/07/17 22:50 Lab File ID: MICL3851.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	3.20	Incomplete Integration	buettnera	03/09/17 09:25
Vinyl chloride	3.44	Incomplete Integration	buettnera	03/09/17 09:25
Iodomethane	5.35	Incomplete Integration	buettnera	04/10/17 09:11

Lab Sample ID: IC 160-296453/6 Client Sample ID:

Date Analyzed: 03/07/17 23:15 Lab File ID: MICL3852.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	5.35	Incomplete Integration	buettnera	04/10/17 09:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Instrument ID: VMSM Analysis Batch Number: 296453

Lab Sample ID: IC 160-296453/7 Client Sample ID:

Date Analyzed: 03/07/17 23:41 Lab File ID: MICL3853.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	5.35	Incomplete Integration	buettnera	04/10/17 09:11

Lab Sample ID: ICIS 160-296453/8 Client Sample ID:

Date Analyzed: 03/08/17 00:06 Lab File ID: MICL3854.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	5.35	Incomplete Integration	buettnera	04/10/17 09:11

Lab Sample ID: IC 160-296453/9 Client Sample ID:

Date Analyzed: 03/08/17 00:31 Lab File ID: MICL3855.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	5.35	Incomplete Integration	buettnera	04/10/17 09:11

Lab Sample ID: IC 160-296453/10 Client Sample ID:

Date Analyzed: 03/08/17 00:57 Lab File ID: MICL3856.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	5.35	Incomplete Integration	buettnera	04/10/17 09:11

Lab Sample ID: ICV 160-296453/13 Client Sample ID:

Date Analyzed: 03/08/17 02:13 Lab File ID: MICV3859.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	4.19	Missed Peak	buettnera	03/09/17 14:07
Iodomethane	5.35	Incomplete Integration	buettnera	04/10/17 09:12

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Instrument ID: VMSM Analysis Batch Number: 303915

Lab Sample ID: LCSD 160-303915/6 Client Sample ID:

Date Analyzed: 04/17/17 18:24 Lab File ID: MLCS4335.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	4.16	Split Peak	hannj	04/20/17 16:56

Lab Sample ID: 280-95891-1 Client Sample ID: 6MW2004

Date Analyzed: 04/17/17 20:31 Lab File ID: MSMP4340.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	3.44	Missed Peak	hannj	04/20/17 18:11

Lab Sample ID: 280-95891-2 Client Sample ID: 6MW2004D

Date Analyzed: 04/17/17 22:37 Lab File ID: MSMP4345.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	3.48	Split Peak	hannj	04/20/17 17:43

Lab Sample ID: 280-95891-3 Client Sample ID: 6MW2204

Date Analyzed: 04/17/17 23:03 Lab File ID: MSMP4346.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	3.44	Incomplete Integration	hannj	04/20/17 18:04

Lab Sample ID: 280-95891-4 Client Sample ID: 6MW2304

Date Analyzed: 04/17/17 23:28 Lab File ID: MSMP4347.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	3.95	Incomplete Integration	hannj	04/20/17 18:03

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Instrument ID: VMSM Analysis Batch Number: 303915

Lab Sample ID: 280-95891-5 Client Sample ID: 6MW2404

Date Analyzed: 04/17/17 23:53 Lab File ID: MSMP4348.D GC Column: RTX-VMS40 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	3.95	Incomplete Integration	hannj	04/20/17 18:08

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-95891-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
TOC ICV Std_00030	08/31/17	Ricca, Lot 1608F14			(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm
TOC LCS Std_00035	08/31/18	Ultra Scientific, Lot CP-3592			(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260 NewWkMix_00209	03/12/17	03/05/17	Methanol, Lot DQ538	10 mL	8260_2_CLEVE_00050	100 uL	2-Chloroethyl vinyl ether	25 ug/mL
					8260Custom1_00048	125 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	25 ug/mL
							n-Nonyl Aldehyde	25 ug/mL
					8260Cyclohexa_00050	100 uL	Cyclohexanone	250 ug/mL
					8260Gases_00198	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_00050	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_00050	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: TestAmerica St. Louis Job No.: 280-95891-1

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_00052	50 uL	Vinyl acetate	25 ug/mL
					Acrolein_00044	62.5 uL	Acrolein	125 ug/mL
					Adds(A) 2016_00012	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: TestAmerica St. Louis Job No.: 280-95891-1

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_00012	100 uL	Ethyl acetate	50 ug/mL
							Ethyl acrylate	25 ug/mL
							Methyl methacrylate	50 ug/mL
							n-Butyl acetate	25 ug/mL
					Polar Add._00041	100 uL	Acetonitrile	250 ug/mL
							Ethanol	1000 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_00050	04/05/17		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00048	03/26/17		Accustandard, Lot 215101095-01		(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00050	04/05/17		Restek, Lot A0118487		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.8260Gases_00198	03/12/17		Restek, Lot A0122964		(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_00050	04/05/17		Restek, Lot A0115554		(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_00050	04/05/17		Restek, Lot A0118177		(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: TestAmerica St. Louis Job No.: 280-95891-1

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: TestAmerica St. Louis Job No.: 280-95891-1

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_00052	03/12/17		Restek, Lot A0123626		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00044	03/26/17		Restek, Lot A0123343		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00012	03/19/17		Restek, Lot A0123685		(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_00012	03/19/17		Restek, Lot A0120639		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Polar Add._00041	04/05/17		Restek, Lot A0114666		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Ethanol	100000 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_00215	04/23/17	04/16/17	Methanol, Lot DQ538	10 mL	8260Gases_00204	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_00051	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_00051	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: TestAmerica St. Louis Job No.: 280-95891-1

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_00204	04/23/17		Restek, Lot A0124278		(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: TestAmerica St. Louis Job No.: 280-95891-1

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_00051	05/02/17		Restek, Lot A0123890		(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_00051	05/02/17		Restek, Lot A0118177		(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: TestAmerica St. Louis Job No.: 280-95891-1

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_00072	04/05/17	03/05/17	Methanol, Lot DQ538	25 mL	8260_Surr_00045	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_00045	04/05/17		Restek, Lot A0120212		(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
8260 Surr 25_00073	05/06/17	04/06/17	Methanol, Lot DQ538	25 mL	8260_Surr_00046	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_00046	05/06/17		Restek, Lot A0120212		(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
8260_Surr_00045	04/05/17		Restek, Lot A0120212		(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
8260NewHiWrk_00186	03/12/17	03/05/17	Methanol, Lot DQ538	1 mL	8260_2_CLEVE_00050	50 uL	2-Chloroethyl vinyl ether	125 ug/mL
					8260Custom1_00048	62.5 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	125 ug/mL
							n-Nonyl Aldehyde	125 ug/mL
					8260Cyclohexa_00050	50 uL	Cyclohexanone	1250 ug/mL
					8260Gases_00198	50 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_00050	10 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_00050	50 uL	1,1,1,2-Tetrachloroethane	125 ug/mL
							1,1,1-Trichloroethane	125 ug/mL
							1,1,2,2-Tetrachloroethane	125 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00052	25 uL	Vinyl acetate	125 ug/mL
					Acrolein_00044	31.25 uL	Acrolein	625 ug/mL
					Adds(A) 2016_00012	50 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_00012	50 uL	Ethyl acetate	250 ug/mL
							Ethyl acrylate	125 ug/mL
							Methyl methacrylate	250 ug/mL
							n-Butyl acetate	125 ug/mL
					Polar Add._00041	50 uL	Acetonitrile	1250 ug/mL
							Ethanol	5000 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_00050	04/05/17	Restek, Lot A0115628			(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00048	03/26/17	Accustandard, Lot 215101095-01			(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00050	04/05/17	Restek, Lot A0118487			(Purchased Reagent)		Cyclohexanone	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260Gases_00198	03/12/17		Restek, Lot A0122964		(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_00050	04/05/17		Restek, Lot A0115554		(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_00050	04/05/17		Restek, Lot A0118177		(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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VinAcetat_00052	03/12/17		Restek, Lot A0123626		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00044	03/26/17		Restek, Lot A0123343		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00012	03/19/17		Restek, Lot A0123685		(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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.Adds(B) 2016_00012	03/19/17		Restek, Lot A0120639		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Polar Add._00041	04/05/17		Restek, Lot A0114666		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Ethanol	100000 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_00199	03/12/17	03/05/17	Methanol, Lot DQ538	5 mL	8260GasesSS_00199	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_00049	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_00049	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00199	03/12/17		Restek, Lot A0115484		(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_00049	04/05/17		Restek, Lot A0118013		(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_00049	04/05/17		Restek, Lot A0120604		(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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
I.S. Working_00144	03/19/17	02/19/17	Methanol, Lot DQ538	25 mL	8260 IS(2014)_00037	250 uL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene	25 ug/mL
.8260 IS(2014)_00037	03/19/17	Restek, Lot A0118801			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
I.S. Working_00146	05/13/17	04/13/17	Methanol, Lot DQ538	25 mL	8260 IS(2014)_00039	250 uL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene	25 ug/mL
.8260 IS(2014)_00039	05/13/17	Restek, Lot A0118801			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL

Reagent

TOC ICV Std_00030

RICCA CHEMICAL COMPANY®

Arlington, TX 76012
Pocomoke City, MD 21851
Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Organic Carbon Standard, 1000 ppm C

Lot Number: 1608F14 **Product Number:** 1847

Manufacture Date: AUG 12, 2016
Expiration Date: AUG 2017

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

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

Katie Schnur
Quality Control Manager

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

Reagent

TOC LCS Std_00035

Certificate of Analysis

ISO Guide 34 Reference Material

Product Number: IQC-106
Lot Number: CP-3592

Lot Issue Date: 27-Jul 2016
Expiration Date: 31-Aug 2018

Product Name: Total Organic Carbon (TOC) Standard

Description:
This Reference Material (RM) was gravimetrically prepared in accordance with ISO Guide 34 and under ULTRA Scientific's ISO 9001 registered quality system. The neat materials used for this product have been verified by ULTRA's ISO 17025 laboratory and under ULTRA's ISO Guide 34 accreditation. The analyte concentrations were verified by ULTRA'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	RM07638	99.9	1000 ± 5 µg/mL	NW12773; 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
ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001 Registered Quality System – TUV USA

250 SMITH STREET • NORTH KINGSTOWN, RHODE ISLAND 02852 • WWW.ULTRASCI.COM

Certificate of Analysis

ISO Guide 34 Reference Material

Product Number: IQC-106
Lot Number: CP-3592

Lot Issue Date: 27-Jul 2016
Expiration Date: 31-Aug 2018

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, ULTRA Scientific will notify the purchaser.

John Russo
President

Vincent Wang, Ph.D.
Director of QA/RA

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001 Registered Quality System – TUV USA

Reagent

8260 IS(2014)_00037

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 #3223.01

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.:** A0118801

Description : 8260A Internal Standard Mix

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

REC'D - 12-12-16
JDH
1074908 - 912

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

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Fluorobenzene		2,507.2 µg/mL	+/- 14.5771	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)		+/- 140.5762	µg/mL	Unstressed
	Purity 99%			+/- 143.8655	µg/mL	Stressed
2	Chlorobenzene-d5		2,508.4 µg/mL	+/- 14.5841	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-23926)		+/- 140.6435	µg/mL	Unstressed
	Purity 99%			+/- 143.9344	µg/mL	Stressed
3	1,4-Dichlorobenzene-d4		2,511.0 µg/mL	+/- 14.5992	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)		+/- 140.7893	µg/mL	Unstressed
	Purity 99%			+/- 144.0836	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)

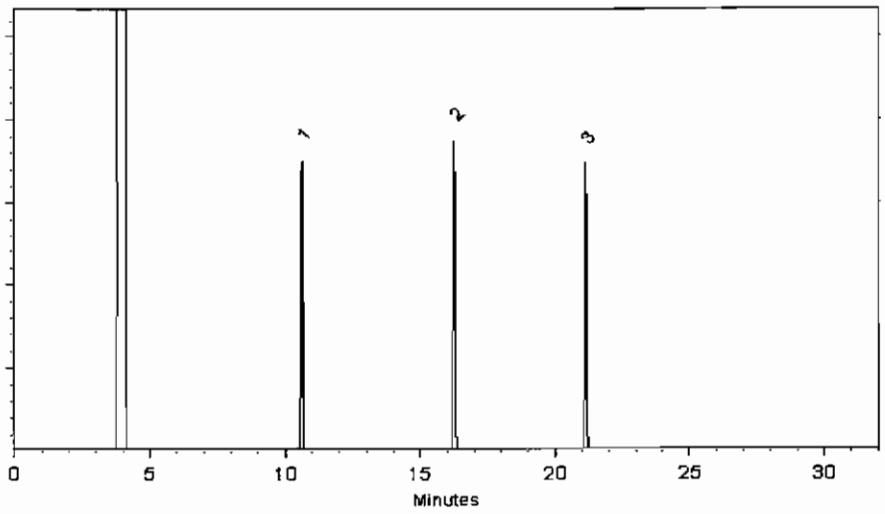
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Isaiah Harrison - Mix Technician

Date Mixed: 19-Apr-2016 **Balance:** 1125113331

Jodi E. Breon - QA Analyst

Date Passed: 21-Apr-2016

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

Reagent

8260 IS(2014)_00039

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 #3223.01

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.:** A0118801

Description : 8260A Internal Standard Mix

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

REC'D - 12-12-16
JDH
1074908 - 912

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

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Fluorobenzene		2,507.2 µg/mL	+/- 14.5771	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)		+/- 140.5762	µg/mL	Unstressed
	Purity 99%			+/- 143.8655	µg/mL	Stressed
2	Chlorobenzene-d5		2,508.4 µg/mL	+/- 14.5841	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-23926)		+/- 140.6435	µg/mL	Unstressed
	Purity 99%			+/- 143.9344	µg/mL	Stressed
3	1,4-Dichlorobenzene-d4		2,511.0 µg/mL	+/- 14.5992	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)		+/- 140.7893	µg/mL	Unstressed
	Purity 99%			+/- 144.0836	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)

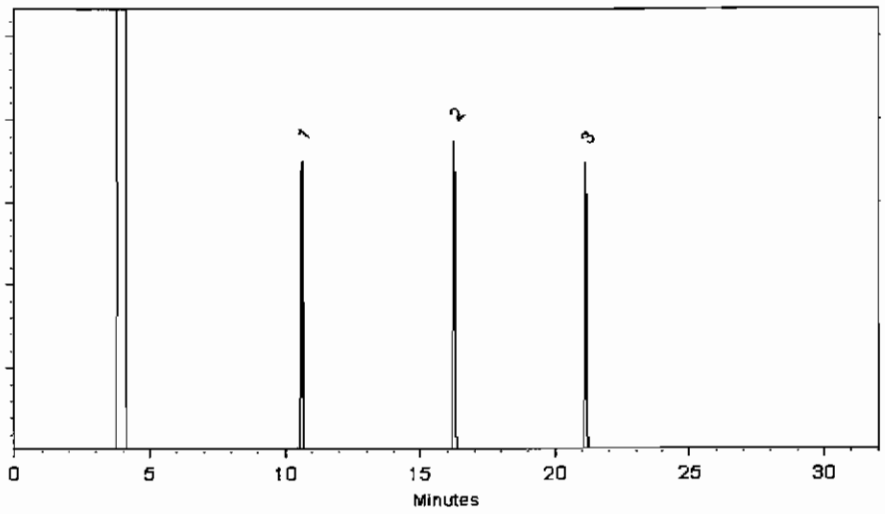
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Isaiah Harrison - Mix Technician

Date Mixed: 19-Apr-2016 **Balance:** 1125113331

Jodi E. Breon - QA Analyst

Date Passed: 21-Apr-2016

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

Reagent

8260_2_CLEVE_00050

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 #3122.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3122.02

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. : 569723 **Lot No.:** A0115628

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

Rec'd 12-15-16 JDH

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

Expiration Date : November 30, 2018 **Storage:** 0°C or colder

1074902-904

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Chloroethyl vinyl ether	2,509.2 µg/mL	+/- 14.5887 µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBK2735V)		+/- 53.7223 µg/mL	Unstressed
	Purity 99%		+/- 55.2841 µg/mL	Stressed

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

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

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

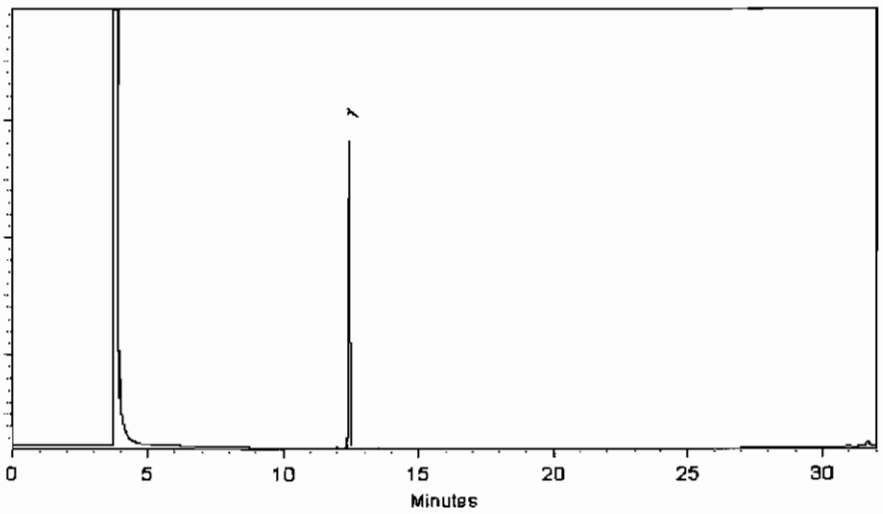
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cheryl Graham - Mix Technician

Date Mixed: 24-Nov-2015 **Balance:** B251644995

Jennifer L. Pollino - QC Analyst

Date Passed: 30-Nov-2015

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

Reagent

8260_Surr_00045

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. : 567650 **Lot No.:** A0120212

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

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

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

REC'D 12-12-16
JDH
1074913-917

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane	2,521.3 µg/mL	+/- 14.6591 µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 032015)		+/- 141.3668 µg/mL	Unstressed
	Purity 99%		+/- 144.6746 µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,523.7 µg/mL	+/- 14.6730 µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot 14C-191)		+/- 141.5014 µg/mL	Unstressed
	Purity 99%		+/- 144.8123 µg/mL	Stressed
3	Toluene-d8	2,523.6 µg/mL	+/- 14.6724 µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-26623)		+/- 141.4957 µg/mL	Unstressed
	Purity 99%		+/- 144.8066 µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,510.9 µg/mL	+/- 14.5986 µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KOV)		+/- 140.7837 µg/mL	Unstressed
	Purity 99%		+/- 144.0778 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)

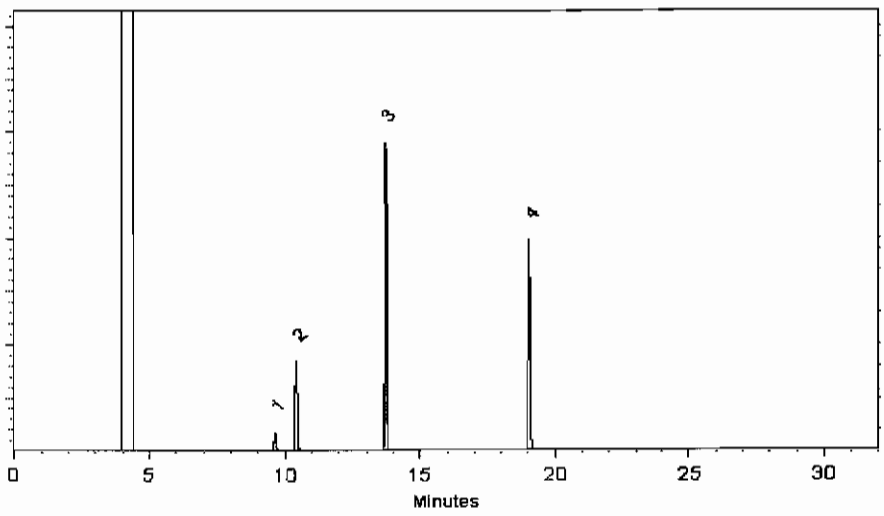
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Dawn Brownson - Mix Technician

Date Mixed: 06-Jul-2016 **Balance:** 1125113331

Jennifer L. Pollino - QC Analyst

Date Passed: 11-Jul-2016

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

Reagent

8260_Surr_00046

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

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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. : 567650 **Lot No.:** A0120212

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

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

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

REC'D 12-12-16
JDH
1074913-917

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane	2,521.3 µg/mL	+/- 14.6591 µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 032015)		+/- 141.3668 µg/mL	Unstressed
	Purity 99%		+/- 144.6746 µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,523.7 µg/mL	+/- 14.6730 µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot 14C-191)		+/- 141.5014 µg/mL	Unstressed
	Purity 99%		+/- 144.8123 µg/mL	Stressed
3	Toluene-d8	2,523.6 µg/mL	+/- 14.6724 µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-26623)		+/- 141.4957 µg/mL	Unstressed
	Purity 99%		+/- 144.8066 µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,510.9 µg/mL	+/- 14.5986 µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KOV)		+/- 140.7837 µg/mL	Unstressed
	Purity 99%		+/- 144.0778 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)

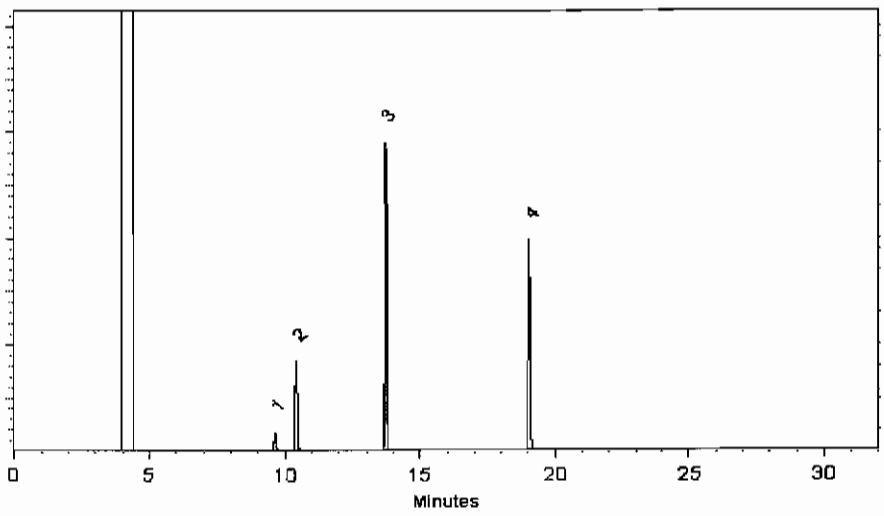
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Dawn Brownson - Mix Technician

Date Mixed: 06-Jul-2016 **Balance:** 1125113331

Jennifer L. Pollino - QC Analyst

Date Passed: 11-Jul-2016

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

Reagent

8260Custom1_00048

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

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

CERTIFICATE OF ANALYSIS

Catalog No: S-26138
Description: Custom VOC Standard
Lot: 215101095-01
Solvent: Methanol
Hazards: **HIGHLY FLAMMABLE** - *Refer to SDS for safety info*

Danger 2

Date Certified: Jul 25, 2016
Expiration: Jul 25, 2017
Sample Size: 1 mL
Components: 2
Storage Condition: Refrig (0-5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Freon 114	76-14-2	99.0	2013	1993
Nonanal	124-19-6	100.0	2004	2004

REC'D 12-8-16
JDH

1063471-480

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 gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent 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 raporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By:
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

CERTIFICATION REPORT

1. **Quality Documentation:** This certificate is designed in accordance with ISO Guide 31 (Reference Materials - Contents of Certificates and Labels) and ISO Guide 35 (Reference Materials – General and Statistical Principles for Certification).

2. **Quality Standards:**

   ISO Guide 34 - General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

   ISO/IEC 17025 - General Requirements for the Competence of Testing and Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001 - Quality Management System - Requirements
   Eagle Registrations Certificate Number 3774

3. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11. If dilution is required, use only Class A glassware and diluent compatible with all certified analytes in this preparation. All solutions should be thoroughly mixed prior to use.

4. **Raw Materials:** Reference standards are prepared from the highest quality starting materials with defined purities. All analytes and solvents are obtained from pre-qualified vendors and then analyzed or evaluated prior to use.

5. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.

6. **Homogeneity Assessment:** Homogeneity of the finished product is assessed by analyzing sample batches or by other methods consistent with the intended use of the product and by procedures that comply with the appropriate Quality System requirements, and ISO Guide 35.

7. **Stability Assessment:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label. To ensure a uniform solution, mix the contents of the sealed container thoroughly prior to use. Care should be taken not to contaminate the contents of the original container.

8. **Analytical Quality Control:** Products are tested by validated analytical methods specified in the manufacturer's quality system.

9. **Uncertainty Statistics and Confidence Limits:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_m = \sqrt{(u(P))^2 + (u(m))^2 + (u(V))^2}$. The expanded uncertainty, U_{CRM} assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level. The U_{CRM} for organic products is ±5%, the U_{CRM} for inorganic products is ±2%.

10. **Warranties:** The manufacturer warrants that its products shall conform to the description of such products as provided in its catalog or on the specific product label. This warranty is exclusive, and the manufacturer makes no other warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.

11. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. Due to the hazardous nature, only trained personnel should handle this product. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

8260Cyclohexa_00050

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Certificate of Analysis

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Certificate #3222.01

ilac-MRA

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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. : 569727 **Lot No.:** A0118487

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000 µg/ml, Water, 1 ml/ampul

REC'D 12-12-16
JDH

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

Expiration Date : March 31, 2019 **Storage:** 10°C or colder

1074885-887

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Cyclohexanone	25,000.4 µg/mL	+/- 146.3826 µg/mL	Gravimetric
	CAS # 108-94-1 (Lot MKBN5282V)		+/- 1,508.4819 µg/mL	Unstressed
	Purity 99%		+/- 1,512.0629 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

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

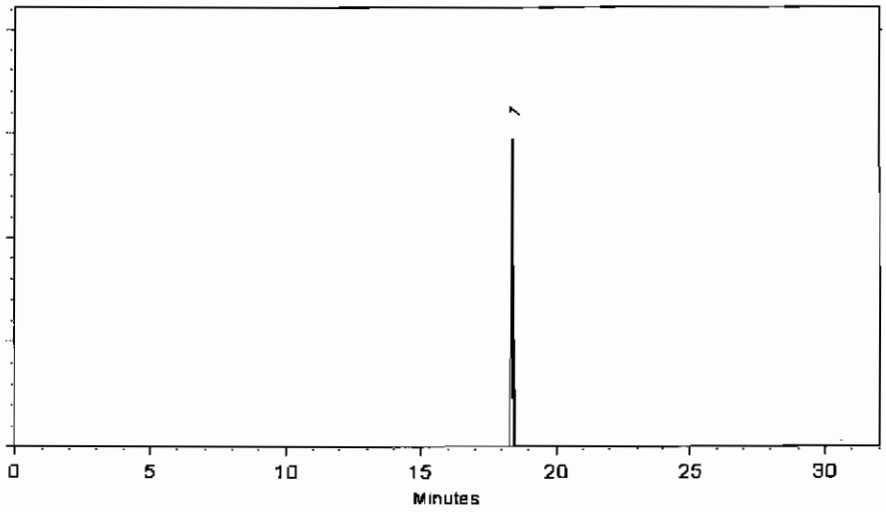
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Joseph Jaglowski - Mix Technician

Date Mixed: 31-Mar-2016 **Balance:** B442140311

Jodi E. Breon - QA Analyst

Date Passed: 04-Apr-2016

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

Reagent

8260Gases_00198

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Testing Laboratory
Certificate #3222.03

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. : 569722 **Lot No.:** A0122964

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

REC'D 1-12-17
JDH
1085910 -919

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

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot Q167-08) **Purity** 99%	2,491.5 µg/mL	+/- 31.7005 µg/mL +/- 142.5149 µg/mL +/- 145.7205 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBG7976V) **Purity** 99%	2,515.8 µg/mL	+/- 34.3475 µg/mL +/- 144.4391 µg/mL +/- 147.6640 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 1026101231B1) **Purity** 99%	2,486.4 µg/mL	+/- 25.8864 µg/mL +/- 141.0541 µg/mL +/- 144.2790 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBF3387V) **Purity** 99%	2,492.0 µg/mL	+/- 23.1233 µg/mL +/- 140.8813 µg/mL +/- 144.1245 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,515.4 µg/mL	+/- 22.6959 µg/mL +/- 142.0993 µg/mL +/- 145.3752 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot SHBD1717V) **Purity** 99%	2,494.8 µg/mL	+/- 25.9739 µg/mL +/- 141.5307 µg/mL +/- 144.7664 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 4938100) **Purity** 99%	2,500.0 µg/mL	+/- 81.3528 µg/mL +/- 161.4167 µg/mL +/- 164.2729 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,505.7	µg/mL	+/-	23.2295	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBF6387V)			+/-	141.6535	µg/mL	Unstressed
	Purity 99%				+/-	144.9146	µg/mL	Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

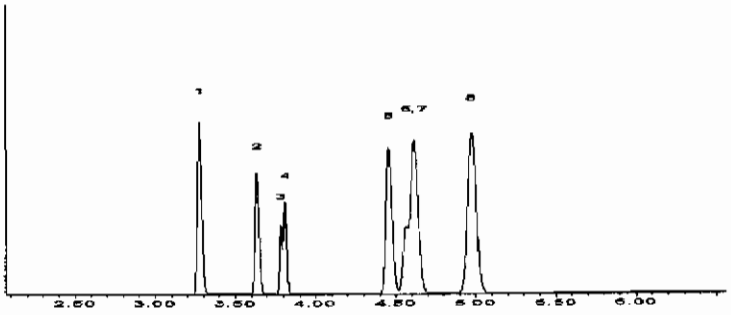
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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.

Rebecca Sawyer

Date Mixed: 16-Nov-2016 **Balance:** 1125113331

Justine Albertson - Operations Tech-ARM QC

Date Passed: 22-Nov-2016

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

Reagent

8260Gases_00204

RESTEK
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CERTIFIED REFERENCE MATERIAL

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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. : 569722 **Lot No.:** A0124278

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

REC'D 3-16-17 JDH

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

Expiration Date : January 31, 2020 **Storage:** 0°C or colder

1136516-525

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)		2,500.5 µg/mL	+/- 16.7232 µg/mL		Gravimetric
	CAS # 75-71-8	(Lot Q167-08)		+/- 140.4412 µg/mL		Unstressed
	Purity 99%			+/- 143.7161 µg/mL		Stressed
2	Chloromethane (methyl chloride)		2,498.7 µg/mL	+/- 17.4998 µg/mL		Gravimetric
	CAS # 74-87-3	(Lot SHBG7976V)		+/- 140.4406 µg/mL		Unstressed
	Purity 99%			+/- 143.7111 µg/mL		Stressed
3	Vinyl chloride		2,498.4 µg/mL	+/- 16.6753 µg/mL		Gravimetric
	CAS # 75-01-4	(Lot 1026101231B1)		+/- 140.3203 µg/mL		Unstressed
	Purity 99%			+/- 143.5926 µg/mL		Stressed
4	1,3-Butadiene		2,496.9 µg/mL	+/- 17.0619 µg/mL		Gravimetric
	CAS # 106-99-0	(Lot SHBF3387V)		+/- 140.2843 µg/mL		Unstressed
	Purity 99%			+/- 143.5535 µg/mL		Stressed
5	Bromomethane (methyl bromide)		2,500.5 µg/mL	+/- 17.3456 µg/mL		Gravimetric
	CAS # 74-83-9	(Lot 101604)		+/- 140.5211 µg/mL		Unstressed
	Purity 99%			+/- 143.7944 µg/mL		Stressed
6	Chloroethane (ethyl chloride)		2,500.5 µg/mL	+/- 16.8189 µg/mL		Gravimetric
	CAS # 75-00-3	(Lot 23593)		+/- 140.4526 µg/mL		Unstressed
	Purity 99%			+/- 143.7272 µg/mL		Stressed
7	Dichlorofluoromethane (CFC-21)		2,500.0 µg/mL	+/- 10.0499 µg/mL		Gravimetric
	CAS # 75-43-4	(Lot 4938100)		+/- 139.7786 µg/mL		Unstressed
	Purity 99%			+/- 143.0675 µg/mL		Stressed

8	Trichlorofluoromethane (CFC-11)		2,501.5	µg/mL	+/-	16.5404	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBG7531V)			+/-	140.4793	µg/mL	Unstressed
	Purity 99%				+/-	143.7562	µg/mL	Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

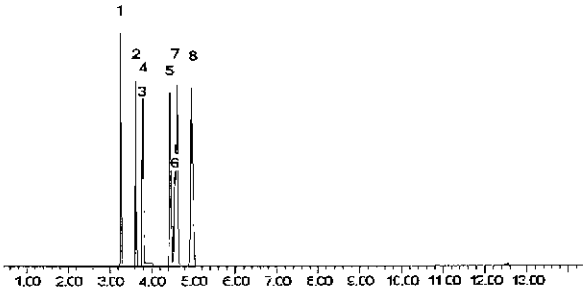
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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.

Joseph Jagiowski - Mix Technician **Date Mixed:** 17-Jan-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 24-Jan-2017

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

Reagent

8260GasesSS_00199

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

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CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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. : 569722.sec **Lot No.:** A0115484

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

REC'D 1-12-17
JDH
1085920-929

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

Expiration Date : November 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 22274) **Purity** 99%	2,505.6 µg/mL	+/- 16.6251 µg/mL +/- 140.7169 µg/mL +/- 143.9990 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,517.3 µg/mL	+/- 17.3796 µg/mL +/- 141.4522 µg/mL +/- 144.7477 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,510.2 µg/mL	+/- 16.6342 µg/mL +/- 140.9727 µg/mL +/- 144.2609 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 22331) **Purity** 99%	2,516.5 µg/mL	+/- 17.4874 µg/mL +/- 141.4240 µg/mL +/- 144.7182 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot Q119-46) **Purity** 99%	2,511.5 µg/mL	+/- 16.8310 µg/mL +/- 141.0664 µg/mL +/- 144.3557 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,504.8 µg/mL	+/- 16.4341 µg/mL +/- 140.6469 µg/mL +/- 143.9283 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4.SEC (Lot SHBC0858V) **Purity** 99%	2,500.5 µg/mL	+/- 16.1659 µg/mL +/- 140.3776 µg/mL +/- 143.6540 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,524.5	µg/mL	+/-	16.8928	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot Q12B-59)			+/-	141.7952	µg/mL	Unstressed
	Purity 99%				+/-	145.1017	µg/mL	Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

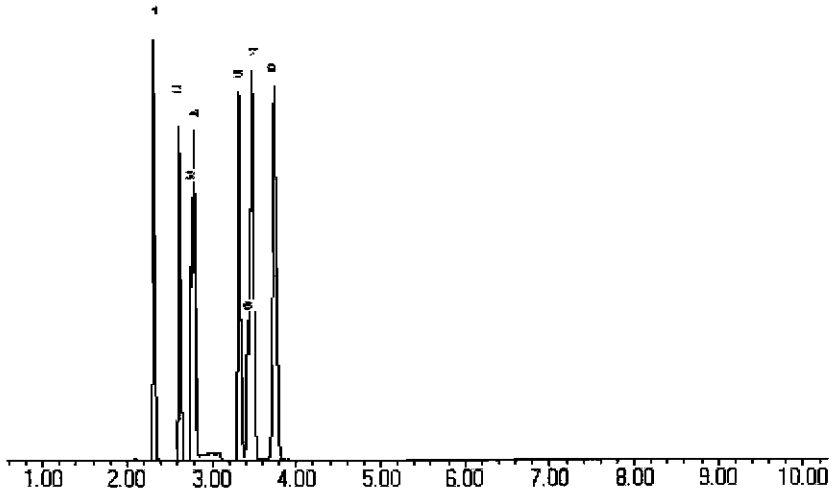
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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.

Lane Kibe - Mix Technician

Date Mixed: 17-Nov-2015 **Balance:** 1127510105

Jennifer L. Pollino - QC Analyst

Date Passed: 10-Dec-2015

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

Reagent

8260Ketones_00050

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 569721 **Lot No.:** A0115554

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

REC'D 12-12-16 JAT

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

Expiration Date : November 30, 2018 **Storage:** 0°C or colder

1074890-892

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone		12,501.8 µg/mL	+/- 72.6865	µg/mL	Gravimetrie
	CAS # 67-64-1	(Lot 07196AK)		+/- 754.2890	µg/mL	Unstressed
	Purity 99%			+/- 756.0798	µg/mL	Stressed
2	2-Butanone (MEK)		12,499.7 µg/mL	+/- 72.6744	µg/mL	Gravimetric
	CAS # 78-93-3	(Lot SHBG0444V)		+/- 754.1625	µg/mL	Unstressed
	Purity 98%			+/- 755.9530	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)		12,500.6 µg/mL	+/- 72.6796	µg/mL	Gravimetric
	CAS # 108-10-1	(Lot SHBF9556V)		+/- 754.2166	µg/mL	Unstressed
	Purity 99%			+/- 756.0072	µg/mL	Stressed
4	2-Hexanone		12,502.4 µg/mL	+/- 72.6900	µg/mL	Gravimetric
	CAS # 591-78-6	(Lot MKBT3158V)		+/- 754.3252	µg/mL	Unstressed
	Purity 99%			+/- 756.1161	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

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

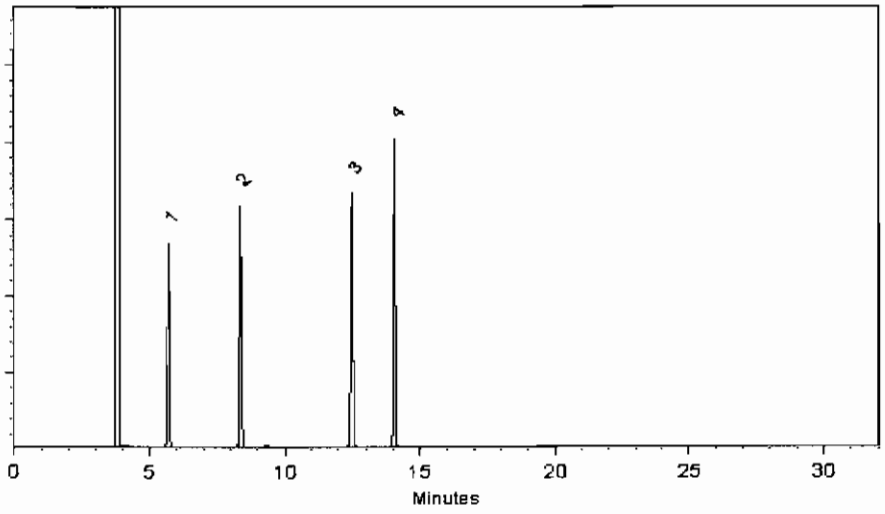
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

F. Joseph Fallon - Mix Technician

Date Mixed: 20-Nov-2015 **Balance:** B251644995

Jennifer L. Pollino - QC Analyst

Date Passed: 24-Nov-2015

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

Reagent

8260Ketones_00051

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. : 569721 **Lot No.:** A0123890

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

REC'D 3-16-17
JDH
1136510-512

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

Expiration Date : January 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,517.5 µg/mL	+/- 72.7778 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBH0922V)		+/- 755.2362 µg/mL	Unstressed
	Purity 99%		+/- 757.0293 µg/mL	Stressed
2	2-Butanone (MEK)	12,521.8 µg/mL	+/- 72.8025 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBF2461V)		+/- 755.4927 µg/mL	Unstressed
	Purity 99%		+/- 757.2863 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,519.8 µg/mL	+/- 72.7909 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBG3630V)		+/- 755.3720 µg/mL	Unstressed
	Purity 99%		+/- 757.1654 µg/mL	Stressed
4	2-Hexanone	12.508.5 µg/mL	+/- 72.7255 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKBW0198V)		+/- 754.6932 µg/mL	Unstressed
	Purity 99%		+/- 756.4850 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

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

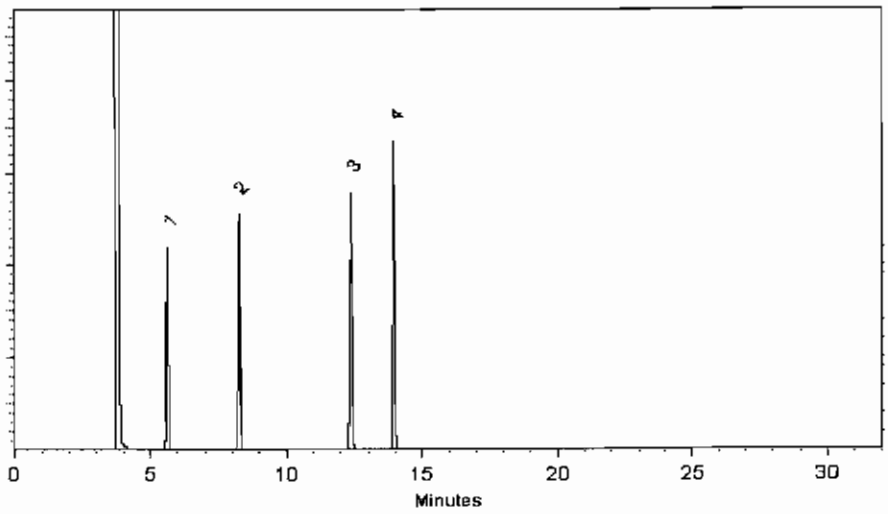
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

F. Joseph Tallon - Mx Technician **Date Mixed:** 03-Jan-2017 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 05-Jan-2017

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

Reagent

8260KetonesSS_00049

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

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 569721.sec **Lot No.:** A0118013

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

REC'D 12-12-16 JDH

1074893-895

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

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,550.0 µg/mL	+/- 73.4830 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot P14A572)		+/- 757.2470 µg/mL	Unstressed
	Purity 99%		+/- 759.0446 µg/mL	Stressed
2	2-Butanone (MEK)	12,603.0 µg/mL	+/- 73.7933 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RA58J)		+/- 760.4450 µg/mL	Unstressed
	Purity 99%		+/- 762.2502 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,591.5 µg/mL	+/- 73.7260 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 759.7511 µg/mL	Unstressed
	Purity 99%		+/- 761.5546 µg/mL	Stressed
4	2-Hexanone	12,588.0 µg/mL	+/- 73.7055 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot V3NRA)		+/- 759.5399 µg/mL	Unstressed
	Purity 99%		+/- 761.3429 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

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

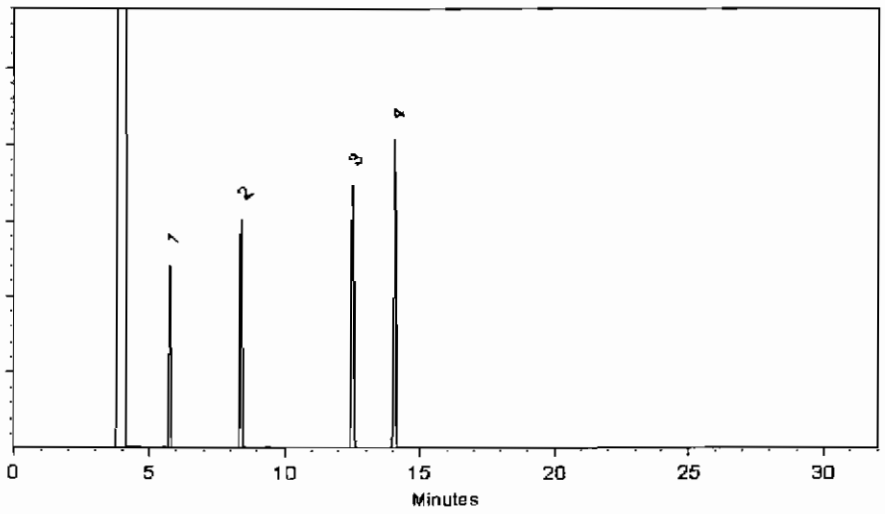
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Isaiah Harrison - Mix Technician

Date Mixed: 14-Mar-2016 **Balance:** 1127510105

Jennifer L. Pollino - QC Analyst

Date Passed: 16-Mar-2016

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

Reagent

8260MegaMix_00050

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

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. : 569720 **Lot No.:** A0118177

Description : 8260 List 1 / Std #1 MegaMix (2015)

8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : March 31, 2018 **Storage:** 0°C or colder

REC'D 12-12-16
JDH
1074879-881

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBG1462V) **Purity** 99%	2,503.5 µg/mL	+/- 14.5556 µg/mL +/- 151.0472 µg/mL +/- 151.4059 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00004562) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 150.8361 µg/mL +/- 151.1942 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethane **CAS #** 75-34-3 (Lot 00008621) **Purity** 99%	2,500.1 µg/mL	+/- 14.5359 µg/mL +/- 150.8436 µg/mL +/- 151.2017 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBD0362V) **Purity** 99%	25,033.4 µg/mL	+/- 145.5386 µg/mL +/- 1,510.3737 µg/mL +/- 1,513.9596 µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBF2149V) **Purity** 98%	2,502.9 µg/mL	+/- 14.5522 µg/mL +/- 151.0123 µg/mL +/- 151.3708 µg/mL	Gravimetric Unstressed Stressed
6	Methyl acetate **CAS #** 79-20-9 (Lot SHBD7134V) **Purity** 98%	12,508.6 µg/mL	+/- 72.7223 µg/mL +/- 754.6987 µg/mL +/- 756.4905 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot SHBF8133V) **Purity** 99%	2,500.0 µg/mL	+/- 19.2743 µg/mL +/- 151.3663 µg/mL +/- 151.7231 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,521.4	µg/mL	+/-	14.6595	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBF9870V)			+/-	152.1257	µg/mL	Unstressed
	Purity 99%				+/-	152.4869	µg/mL	Stressed
9	Carbon disulfide		2,516.0	µg/mL	+/-	14.6282	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot S20A856)			+/-	151.8014	µg/mL	Unstressed
	Purity 99%				+/-	152.1618	µg/mL	Stressed
10	Acrylonitrile		25,001.3	µg/mL	+/-	145.3518	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot J08Z057)			+/-	1,508.4355	µg/mL	Unstressed
	Purity 99%				+/-	1,512.0167	µg/mL	Stressed
11	cis-1,2-Dichloroethene		2,507.8	µg/mL	+/-	14.5807	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBV2831V)			+/-	151.3079	µg/mL	Unstressed
	Purity 98%				+/-	151.6671	µg/mL	Stressed
12	n-Hexane (C6)		2,512.4	µg/mL	+/-	14.6072	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBF7674V)			+/-	151.5827	µg/mL	Unstressed
	Purity 99%				+/-	151.9426	µg/mL	Stressed
13	1,1-dichloroethene		2,508.1	µg/mL	+/-	14.5825	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot 73896KMV)			+/-	151.3263	µg/mL	Unstressed
	Purity 99%				+/-	151.6856	µg/mL	Stressed
14	2,2-Dichloropropane		2,507.6	µg/mL	+/-	14.5795	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBL9720V)			+/-	151.2961	µg/mL	Unstressed
	Purity 99%				+/-	151.6553	µg/mL	Stressed
15	trans-1,2-Dichloroethene		2,509.8	µg/mL	+/-	14.5919	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	151.4243	µg/mL	Unstressed
	Purity 99%				+/-	151.7838	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol)		62,815.4	µg/mL	+/-	365.1949	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBD1647V)			+/-	3,789.9281	µg/mL	Unstressed
	Purity 99%				+/-	3,798.9260	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE)		2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot MKBV2134V)			+/-	151.4394	µg/mL	Unstressed
	Purity 99%				+/-	151.7990	µg/mL	Stressed
18	Bromochloromethane		2,507.0	µg/mL	+/-	14.5759	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)			+/-	151.2584	µg/mL	Unstressed
	Purity 99%				+/-	151.6175	µg/mL	Stressed
19	Tetrahydrofuran		5,025.3	µg/mL	+/-	29.2172	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBG2910V)			+/-	303.1956	µg/mL	Unstressed
	Purity 99%				+/-	303.9154	µg/mL	Stressed
20	1,1,1-trichloroethane		2,508.9	µg/mL	+/-	14.5868	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B15MW0705)			+/-	151.3715	µg/mL	Unstressed
	Purity 99%				+/-	151.7309	µg/mL	Stressed
21	Cyclohexane		2,503.4	µg/mL	+/-	14.5548	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKBV3194V)			+/-	151.0397	µg/mL	Unstressed
	Purity 99%				+/-	151.3983	µg/mL	Stressed
22	1,1-Dichloropropene		2,507.4	µg/mL	+/-	14.5781	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot PR09161302)			+/-	151.2810	µg/mL	Unstressed
	Purity 99%				+/-	151.6402	µg/mL	Stressed
23	carbon tetrachloride		2,505.9	µg/mL	+/-	14.5694	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBG1763V)			+/-	151.1905	µg/mL	Unstressed
	Purity 99%				+/-	151.5495	µg/mL	Stressed

24	n-Heptane (C7)		2,510.8	µg/mL	+/-	14.5977	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot MKBV6176V)			+/-	151.4847	µg/mL	Unstressed
	Purity 99%				+/-	151.8443	µg/mL	Stressed
25	1,2-Dichloroethane		2,511.1	µg/mL	+/-	14.5999	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKBV4565V)			+/-	151.5073	µg/mL	Unstressed
	Purity 99%				+/-	151.8670	µg/mL	Stressed
26	Benzene		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBG1169V)			+/-	151.0095	µg/mL	Unstressed
	Purity 99%				+/-	151.3681	µg/mL	Stressed
27	Trichloroethene		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBF0943V)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
28	Methylcyclohexane		2,503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot 50996APV)			+/-	151.0699	µg/mL	Unstressed
	Purity 99%				+/-	151.4285	µg/mL	Stressed
29	1,2-Dichloropropane		2,523.5	µg/mL	+/-	14.6718	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot 01113D0V)			+/-	152.2539	µg/mL	Unstressed
	Purity 99%				+/-	152.6154	µg/mL	Stressed
30	bromodichloromethane		2,509.0	µg/mL	+/-	14.5878	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKBL1617V)			+/-	151.3818	µg/mL	Unstressed
	Purity 98%				+/-	151.7412	µg/mL	Stressed
31	1,4-Dioxane		50,018.1	µg/mL	+/-	290.7945	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBG6312V)			+/-	3,017.8137	µg/mL	Unstressed
	Purity 99%				+/-	3,024.9785	µg/mL	Stressed
32	Dibromomethane		2,511.4	µg/mL	+/-	14.6013	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10183283)			+/-	151.5222	µg/mL	Unstressed
	Purity 98%				+/-	151.8820	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,506.0	µg/mL	+/-	14.5701	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot 22622)			+/-	151.1981	µg/mL	Unstressed
	Purity 99%				+/-	151.5571	µg/mL	Stressed
34	Toluene		2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot MKBV5601V)			+/-	151.7713	µg/mL	Unstressed
	Purity 99%				+/-	152.1316	µg/mL	Stressed
35	Ethyl methacrylate		2,503.1	µg/mL	+/-	14.5534	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot SHBD9190V)			+/-	151.0246	µg/mL	Unstressed
	Purity 99%				+/-	151.3832	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,508.0	µg/mL	+/-	14.5817	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot C584177)			+/-	151.3188	µg/mL	Unstressed
	Purity 99%				+/-	151.6780	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,508.4	µg/mL	+/-	14.5839	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	151.3414	µg/mL	Unstressed
	Purity 99%				+/-	151.7007	µg/mL	Stressed
38	1,3-Dichloropropane		2,522.8	µg/mL	+/-	14.6675	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBG2162V)			+/-	152.2087	µg/mL	Unstressed
	Purity 99%				+/-	152.5701	µg/mL	Stressed
39	Tetrachloroethene		2,518.9	µg/mL	+/-	14.6450	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBD9374V)			+/-	151.9749	µg/mL	Unstressed
	Purity 99%				+/-	152.3357	µg/mL	Stressed

40	dibromochloromethane		2,505.4	µg/mL	+/-	14.5664	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKBQ6577V)			+/-	151.1601	µg/mL	Unstressed
	Purity 98%				+/-	151.5190	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,505.1	µg/mL	+/-	14.5650	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)			+/-	151.1453	µg/mL	Unstressed
	Purity 99%				+/-	151.5041	µg/mL	Stressed
42	Chlorobenzene		2,505.6	µg/mL	+/-	14.5679	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBF0505V)			+/-	151.1755	µg/mL	Unstressed
	Purity 99%				+/-	151.5344	µg/mL	Stressed
43	1,1,2,2-Tetrachloroethane		2,505.1	µg/mL	+/-	14.5650	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	151.1453	µg/mL	Unstressed
	Purity 99%				+/-	151.5041	µg/mL	Stressed
44	Ethylbenzene		2,506.1	µg/mL	+/-	14.5708	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBG5920V)			+/-	151.2056	µg/mL	Unstressed
	Purity 99%				+/-	151.5646	µg/mL	Stressed
45	m-Xylene		1,254.4	µg/mL	+/-	7.2930	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBF8095V)			+/-	75.6820	µg/mL	Unstressed
	Purity 99%				+/-	75.8617	µg/mL	Stressed
46	p-Xylene		1,250.0	µg/mL	+/-	7.2676	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBF3427V)			+/-	75.4180	µg/mL	Unstressed
	Purity 99%				+/-	75.5971	µg/mL	Stressed
47	o-Xylene		2,506.3	µg/mL	+/-	14.5716	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBF7003V)			+/-	151.2132	µg/mL	Unstressed
	Purity 99%				+/-	151.5722	µg/mL	Stressed
48	Styrene		2,503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKBS7097V)			+/-	151.0699	µg/mL	Unstressed
	Purity 99%				+/-	151.4285	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,509.4	µg/mL	+/-	14.5897	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10185056)			+/-	151.4017	µg/mL	Unstressed
	Purity 99%				+/-	151.7612	µg/mL	Stressed
50	bromoform		2,503.3	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBC3410V)			+/-	151.0322	µg/mL	Unstressed
	Purity 99%				+/-	151.3907	µg/mL	Stressed
51	1,1,1,2-Tetrachloroethane		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)			+/-	151.1378	µg/mL	Unstressed
	Purity 99%				+/-	151.4966	µg/mL	Stressed
52	chloroform		2,507.8	µg/mL	+/-	14.5803	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot MKBV2089V)			+/-	151.3037	µg/mL	Unstressed
	Purity 99%				+/-	151.6629	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,504.8	µg/mL	+/-	14.5628	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	151.1227	µg/mL	Unstressed
	Purity 99%				+/-	151.4815	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,499.7	µg/mL	+/-	14.5334	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot MKBP6041V)			+/-	150.8172	µg/mL	Unstressed
	Purity 95%				+/-	151.1753	µg/mL	Stressed
55	n-Propylbenzene		2,507.5	µg/mL	+/-	14.5788	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKBJ0332V)			+/-	151.2886	µg/mL	Unstressed
	Purity 99%				+/-	151.6478	µg/mL	Stressed

56	Bromobenzene		2,515.1	µg/mL	+/-	14.6232	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot MKBD4032V)			+/-	151.7486	µg/mL	Unstressed
	Purity 99%				+/-	152.1089	µg/mL	Stressed
57	1,2,4-Trimethylbenzene		2,503.7	µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot MKBJ6229V)			+/-	151.0566	µg/mL	Unstressed
	Purity 98%				+/-	151.4152	µg/mL	Stressed
58	2-Chlorotoluene		2,502.1	µg/mL	+/-	14.5476	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKBH8892V)			+/-	150.9643	µg/mL	Unstressed
	Purity 99%				+/-	151.3227	µg/mL	Stressed
59	4-Chlorotoluene		2,512.6	µg/mL	+/-	14.6086	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKBL7753V)			+/-	151.5978	µg/mL	Unstressed
	Purity 99%				+/-	151.9577	µg/mL	Stressed
60	tert-Butylbenzene		2,507.8	µg/mL	+/-	14.5803	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot S52237V)			+/-	151.3037	µg/mL	Unstressed
	Purity 99%				+/-	151.6629	µg/mL	Stressed
61	1,3,5-Trimethylbenzene		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCBJ6245V)			+/-	150.9869	µg/mL	Unstressed
	Purity 99%				+/-	151.3454	µg/mL	Stressed
62	sec-Butylbenzene		2,521.8	µg/mL	+/-	14.6617	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKBK3151V)			+/-	152.1484	µg/mL	Unstressed
	Purity 99%				+/-	152.5096	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene)		2,502.6	µg/mL	+/-	14.5505	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKBK4439V)			+/-	150.9945	µg/mL	Unstressed
	Purity 99%				+/-	151.3529	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,505.8	µg/mL	+/-	14.5686	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBM5751V)			+/-	151.1830	µg/mL	Unstressed
	Purity 99%				+/-	151.5419	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,504.1	µg/mL	+/-	14.5592	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS1350V)			+/-	151.0850	µg/mL	Unstressed
	Purity 99%				+/-	151.4437	µg/mL	Stressed
66	n-Butylbenzene		2,503.3	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09418JJV)			+/-	151.0322	µg/mL	Unstressed
	Purity 99%				+/-	151.3907	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,505.5	µg/mL	+/-	14.5672	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBD7331V)			+/-	151.1679	µg/mL	Unstressed
	Purity 99%				+/-	151.5268	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,508.6	µg/mL	+/-	14.5854	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01-JM)			+/-	151.3565	µg/mL	Unstressed
	Purity 99%				+/-	151.7158	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,518.6	µg/mL	+/-	14.6435	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot 26896BM)			+/-	151.9598	µg/mL	Unstressed
	Purity 99%				+/-	152.3206	µg/mL	Stressed
70	Hexachlorobutadiene		2,499.9	µg/mL	+/-	14.5344	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot J31X013)			+/-	150.8275	µg/mL	Unstressed
	Purity 98%				+/-	151.1856	µg/mL	Stressed
71	Naphthalene		2,514.9	µg/mL	+/-	14.6217	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBH4351V)			+/-	151.7336	µg/mL	Unstressed
	Purity 99%				+/-	152.0938	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBS4859V)		+/-	150.9567	µg/mL	Unstressed
	Purity 99%			+/-	151.3151	µg/mL	Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

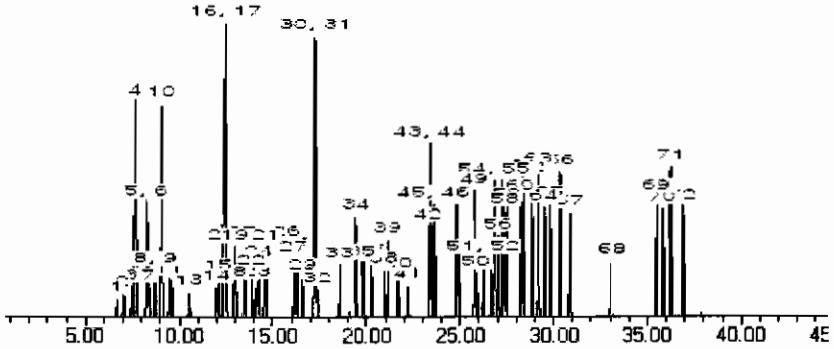
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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.

Rebecca Sawyer

Date Mixed: 21-Mar-2016 **Balance:** 1125113331

Jodi E. Breon

Jodi E. Breon - QA Analyst

Date Passed: 28-Mar-2016

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

Reagent

8260MegaMix_00051

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

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. : 569720 **Lot No.:** A0118177

Description : 8260 List 1 / Std #1 MegaMix (2015)

8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

REC'D 3-16-17 JDH

1136504-506

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

Expiration Date : March 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBG1462V) **Purity** 99%	2,503.5 µg/mL	+/- 14.5556 µg/mL +/- 151.0472 µg/mL +/- 151.4059 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00004562) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 150.8361 µg/mL +/- 151.1942 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethane **CAS #** 75-34-3 (Lot 00008621) **Purity** 99%	2,500.1 µg/mL	+/- 14.5359 µg/mL +/- 150.8436 µg/mL +/- 151.2017 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBD0362V) **Purity** 99%	25,033.4 µg/mL	+/- 145.5386 µg/mL +/- 1,510.3737 µg/mL +/- 1,513.9596 µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBF2149V) **Purity** 98%	2,502.9 µg/mL	+/- 14.5522 µg/mL +/- 151.0123 µg/mL +/- 151.3708 µg/mL	Gravimetric Unstressed Stressed
6	Methyl acetate **CAS #** 79-20-9 (Lot SHBD7134V) **Purity** 98%	12,508.6 µg/mL	+/- 72.7223 µg/mL +/- 754.6987 µg/mL +/- 756.4905 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot SHBF8133V) **Purity** 99%	2,500.0 µg/mL	+/- 19.2743 µg/mL +/- 151.3663 µg/mL +/- 151.7231 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,521.4	µg/mL	+/-	14.6595	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBF9870V)			+/-	152.1257	µg/mL	Unstressed
	Purity 99%				+/-	152.4869	µg/mL	Stressed
9	Carbon disulfide		2,516.0	µg/mL	+/-	14.6282	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot S20A856)			+/-	151.8014	µg/mL	Unstressed
	Purity 99%				+/-	152.1618	µg/mL	Stressed
10	Acrylonitrile		25,001.3	µg/mL	+/-	145.3518	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot J08Z057)			+/-	1,508.4355	µg/mL	Unstressed
	Purity 99%				+/-	1,512.0167	µg/mL	Stressed
11	cis-1,2-Dichloroethene		2,507.8	µg/mL	+/-	14.5807	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBV2831V)			+/-	151.3079	µg/mL	Unstressed
	Purity 98%				+/-	151.6671	µg/mL	Stressed
12	n-Hexane (C6)		2,512.4	µg/mL	+/-	14.6072	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBF7674V)			+/-	151.5827	µg/mL	Unstressed
	Purity 99%				+/-	151.9426	µg/mL	Stressed
13	1,1-dichloroethene		2,508.1	µg/mL	+/-	14.5825	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot 73896KMV)			+/-	151.3263	µg/mL	Unstressed
	Purity 99%				+/-	151.6856	µg/mL	Stressed
14	2,2-Dichloropropane		2,507.6	µg/mL	+/-	14.5795	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBL9720V)			+/-	151.2961	µg/mL	Unstressed
	Purity 99%				+/-	151.6553	µg/mL	Stressed
15	trans-1,2-Dichloroethene		2,509.8	µg/mL	+/-	14.5919	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	151.4243	µg/mL	Unstressed
	Purity 99%				+/-	151.7838	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol)		62,815.4	µg/mL	+/-	365.1949	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBD1647V)			+/-	3,789.9281	µg/mL	Unstressed
	Purity 99%				+/-	3,798.9260	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE)		2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot MKBV2134V)			+/-	151.4394	µg/mL	Unstressed
	Purity 99%				+/-	151.7990	µg/mL	Stressed
18	Bromochloromethane		2,507.0	µg/mL	+/-	14.5759	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)			+/-	151.2584	µg/mL	Unstressed
	Purity 99%				+/-	151.6175	µg/mL	Stressed
19	Tetrahydrofuran		5,025.3	µg/mL	+/-	29.2172	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBG2910V)			+/-	303.1956	µg/mL	Unstressed
	Purity 99%				+/-	303.9154	µg/mL	Stressed
20	1,1,1-trichloroethane		2,508.9	µg/mL	+/-	14.5868	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B15MW0705)			+/-	151.3715	µg/mL	Unstressed
	Purity 99%				+/-	151.7309	µg/mL	Stressed
21	Cyelohexane		2,503.4	µg/mL	+/-	14.5548	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKBV3194V)			+/-	151.0397	µg/mL	Unstressed
	Purity 99%				+/-	151.3983	µg/mL	Stressed
22	1,1-Dichloropropene		2,507.4	µg/mL	+/-	14.5781	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot PR09161302)			+/-	151.2810	µg/mL	Unstressed
	Purity 99%				+/-	151.6402	µg/mL	Stressed
23	earbon tetrachloride		2,505.9	µg/mL	+/-	14.5694	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBG1763V)			+/-	151.1905	µg/mL	Unstressed
	Purity 99%				+/-	151.5495	µg/mL	Stressed

24	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot MKBV6176V)	2,510.8	µg/mL	+/- +/- +/-	14.5977 151.4847 151.8443	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot MKBV4565V)	2,511.1	µg/mL	+/- +/- +/-	14.5999 151.5073 151.8670	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBG1169V)	2,502.9	µg/mL	+/- +/- +/-	14.5519 151.0095 151.3681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBF0943V)	2,500.4	µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot 50996APV)	2,503.9	µg/mL	+/- +/- +/-	14.5577 151.0699 151.4285	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot 01113D0V)	2,523.5	µg/mL	+/- +/- +/-	14.6718 152.2539 152.6154	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	bromodichloromethane **CAS #** 75-27-4 **Purity** 98%	(Lot MKBL1617V)	2,509.0	µg/mL	+/- +/- +/-	14.5878 151.3818 151.7412	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBG6312V)	50,018.1	µg/mL	+/- +/- +/-	290.7945 3,017.8137 3,024.9785	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 98%	(Lot 10183283)	2,511.4	µg/mL	+/- +/- +/-	14.6013 151.5222 151.8820	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 22622)	2,506.0	µg/mL	+/- +/- +/-	14.5701 151.1981 151.5571	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot MKBV5601V)	2,515.5	µg/mL	+/- +/- +/-	14.6253 151.7713 152.1316	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot SHBD9190V)	2,503.1	µg/mL	+/- +/- +/-	14.5534 151.0246 151.3832	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 99%	(Lot C584177)	2,508.0	µg/mL	+/- +/- +/-	14.5817 151.3188 151.6780	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,508.4	µg/mL	+/- +/- +/-	14.5839 151.3414 151.7007	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,522.8	µg/mL	+/- +/- +/-	14.6675 152.2087 152.5701	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBD9374V)	2,518.9	µg/mL	+/- +/- +/-	14.6450 151.9749 152.3357	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane		2,505.4	µg/mL	+/-	14.5664	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKBQ6577V)			+/-	151.1601	µg/mL	Unstressed
	Purity 98%				+/-	151.5190	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,505.1	µg/mL	+/-	14.5650	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)			+/-	151.1453	µg/mL	Unstressed
	Purity 99%				+/-	151.5041	µg/mL	Stressed
42	Chlorobenzene		2,505.6	µg/mL	+/-	14.5679	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBF0505V)			+/-	151.1755	µg/mL	Unstressed
	Purity 99%				+/-	151.5344	µg/mL	Stressed
43	1,1,2,2-Tetrachloroethane		2,505.1	µg/mL	+/-	14.5650	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	151.1453	µg/mL	Unstressed
	Purity 99%				+/-	151.5041	µg/mL	Stressed
44	Ethylbenzene		2,506.1	µg/mL	+/-	14.5708	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBG5920V)			+/-	151.2056	µg/mL	Unstressed
	Purity 99%				+/-	151.5646	µg/mL	Stressed
45	m-Xylene		1,254.4	µg/mL	+/-	7.2930	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBF8095V)			+/-	75.6820	µg/mL	Unstressed
	Purity 99%				+/-	75.8617	µg/mL	Stressed
46	p-Xylene		1,250.0	µg/mL	+/-	7.2676	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBF3427V)			+/-	75.4180	µg/mL	Unstressed
	Purity 99%				+/-	75.5971	µg/mL	Stressed
47	o-Xylene		2,506.3	µg/mL	+/-	14.5716	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBF7003V)			+/-	151.2132	µg/mL	Unstressed
	Purity 99%				+/-	151.5722	µg/mL	Stressed
48	Styrene		2,503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKBS7097V)			+/-	151.0699	µg/mL	Unstressed
	Purity 99%				+/-	151.4285	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,509.4	µg/mL	+/-	14.5897	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10185056)			+/-	151.4017	µg/mL	Unstressed
	Purity 99%				+/-	151.7612	µg/mL	Stressed
50	bromoform		2,503.3	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBC3410V)			+/-	151.0322	µg/mL	Unstressed
	Purity 99%				+/-	151.3907	µg/mL	Stressed
51	1,1,1,2-Tetrachloroethane		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)			+/-	151.1378	µg/mL	Unstressed
	Purity 99%				+/-	151.4966	µg/mL	Stressed
52	chloroform		2,507.8	µg/mL	+/-	14.5803	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot MKBV2089V)			+/-	151.3037	µg/mL	Unstressed
	Purity 99%				+/-	151.6629	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,504.8	µg/mL	+/-	14.5628	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	151.1227	µg/mL	Unstressed
	Purity 99%				+/-	151.4815	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,499.7	µg/mL	+/-	14.5334	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot MKBP6041V)			+/-	150.8172	µg/mL	Unstressed
	Purity 95%				+/-	151.1753	µg/mL	Stressed
55	n-Propylbenzene		2,507.5	µg/mL	+/-	14.5788	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKBJ0332V)			+/-	151.2886	µg/mL	Unstressed
	Purity 99%				+/-	151.6478	µg/mL	Stressed

56	Bromobenzene		2,515.1	µg/mL	+/-	14.6232	µg/mL	Gravimetrie
	CAS # 108-86-1	(Lot MKBD4032V)			+/-	151.7486	µg/mL	Unstressed
	Purity 99%				+/-	152.1089	µg/mL	Stressed
57	1,2,4-Trimethylbenzene		2,503.7	µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot MKBJ6229V)			+/-	151.0566	µg/mL	Unstressed
	Purity 98%				+/-	151.4152	µg/mL	Stressed
58	2-Chlorotoluene		2,502.1	µg/mL	+/-	14.5476	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKBH8892V)			+/-	150.9643	µg/mL	Unstressed
	Purity 99%				+/-	151.3227	µg/mL	Stressed
59	4-Chlorotoluene		2,512.6	µg/mL	+/-	14.6086	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKBL7753V)			+/-	151.5978	µg/mL	Unstressed
	Purity 99%				+/-	151.9577	µg/mL	Stressed
60	tert-Butylbenzene		2,507.8	µg/mL	+/-	14.5803	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot S52237V)			+/-	151.3037	µg/mL	Unstressed
	Purity 99%				+/-	151.6629	µg/mL	Stressed
61	1,3,5-Trimethylbenzene		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCBJ6245V)			+/-	150.9869	µg/mL	Unstressed
	Purity 99%				+/-	151.3454	µg/mL	Stressed
62	sec-Butylbenzene		2,521.8	µg/mL	+/-	14.6617	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKBK3151V)			+/-	152.1484	µg/mL	Unstressed
	Purity 99%				+/-	152.5096	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene)		2,502.6	µg/mL	+/-	14.5505	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKBK4439V)			+/-	150.9945	µg/mL	Unstressed
	Purity 99%				+/-	151.3529	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,505.8	µg/mL	+/-	14.5686	µg/mL	Gravimetrie
	CAS # 541-73-1	(Lot BCBM5751V)			+/-	151.1830	µg/mL	Unstressed
	Purity 99%				+/-	151.5419	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,504.1	µg/mL	+/-	14.5592	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS1350V)			+/-	151.0850	µg/mL	Unstressed
	Purity 99%				+/-	151.4437	µg/mL	Stressed
66	n-Butylbenzene		2,503.3	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09418JJV)			+/-	151.0322	µg/mL	Unstressed
	Purity 99%				+/-	151.3907	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,505.5	µg/mL	+/-	14.5672	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBD7331V)			+/-	151.1679	µg/mL	Unstressed
	Purity 99%				+/-	151.5268	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,508.6	µg/mL	+/-	14.5854	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01-JM)			+/-	151.3565	µg/mL	Unstressed
	Purity 99%				+/-	151.7158	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,518.6	µg/mL	+/-	14.6435	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot 26896BM)			+/-	151.9598	µg/mL	Unstressed
	Purity 99%				+/-	152.3206	µg/mL	Stressed
70	Hexachlorobutadiene		2,499.9	µg/mL	+/-	14.5344	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot J31X013)			+/-	150.8275	µg/mL	Unstressed
	Purity 98%				+/-	151.1856	µg/mL	Stressed
71	Naphthalene		2,514.9	µg/mL	+/-	14.6217	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBH4351V)			+/-	151.7336	µg/mL	Unstressed
	Purity 99%				+/-	152.0938	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBS4859V)		+/-	150.9567	µg/mL	Unstressed
	Purity 99%			+/-	151.3151	µg/mL	Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

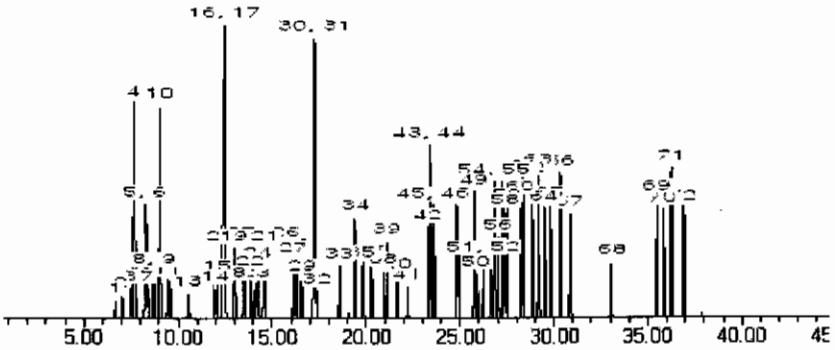
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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.

Rebecca Sawyer

Date Mixed: 21-Mar-2016 **Balance:** 1125113331

Jodi E. Breon

Jodi E. Breon - QA Analyst

Date Passed: 28-Mar-2016

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

Reagent

8260MegaMixSS_00049

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

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. : 569720.sec **Lot No.:** A0120604

Description : 8260 List 1 / Std #1 MegaMix (2015)

8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

REC'D 12-12-16 JDH

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

Expiration Date : July 31, 2018 **Storage:** 0°C or colder

1074882-884

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 98%	2,501.1 µg/mL	+/- 14.5415 µg/mL +/- 150.9014 µg/mL +/- 151.2597 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,501.1 µg/mL	+/- 14.5418 µg/mL +/- 150.9040 µg/mL +/- 151.2622 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 2767000) **Purity** 99%	2,500.8 µg/mL	+/- 14.5396 µg/mL +/- 150.8813 µg/mL +/- 151.2395 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,004.1 µg/mL	+/- 145.3683 µg/mL +/- 1,508.6067 µg/mL +/- 1,512.1884 µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot Y25A027) **Purity** 99%	2,501.0 µg/mL	+/- 14.5410 µg/mL +/- 150.8964 µg/mL +/- 151.2547 µg/mL	Gravimetric Unstressed Stressed
6	Methyl acetate **CAS #** 79-20-9.SEC (Lot 6WOXM) **Purity** 99%	12,501.6 µg/mL	+/- 72.6817 µg/mL +/- 754.2781 µg/mL +/- 756.0689 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot VEBOC) **Purity** 98%	2,501.0 µg/mL	+/- 14.5408 µg/mL +/- 150.8940 µg/mL +/- 151.2522 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetrie
	CAS # 75-09-2.SEC	(Lot FGM02)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
9	Carbon disulfide		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
10	Acrylonitrile		25,020.0	µg/mL	+/-	145.4608	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot UERIL-DA)			+/-	1,509.5667	µg/mL	Unstressed
	Purity 99%				+/-	1,513.1507	µg/mL	Stressed
11	eis-1,2-Dichloroethene		2,500.8	µg/mL	+/-	14.5401	µg/mL	Gravimetric
	CAS # 156-59-2.SEC	(Lot HGC01-BLKT)			+/-	150.8866	µg/mL	Unstressed
	Purity 98%				+/-	151.2448	µg/mL	Stressed
12	n-Hexane (C6)		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
13	1,1-Dichloroethane		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 75-34-3.SEC	(Lot 5035700)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
14	2,2-Dichloropropane		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	CAS # 594-20-7.SEC	(Lot GI01)			+/-	150.8738	µg/mL	Unstressed
	Purity 99%				+/-	151.2320	µg/mL	Stressed
15	trans-1,2-Dichloroethene		2,501.3	µg/mL	+/-	14.5426	µg/mL	Gravimetric
	CAS # 156-60-5.SEC	(Lot TS5UB)			+/-	150.9125	µg/mL	Unstressed
	Purity 97%				+/-	151.2708	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol)		62,503.0	µg/mL	+/-	363.3788	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot 83NHH)			+/-	3,771.0811	µg/mL	Unstressed
	Purity 99%				+/-	3,780.0343	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE)		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZAQTA-MS)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
18	Bromochloromethane		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 1775400)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
19	Tetrahydrofuran		5,000.3	µg/mL	+/-	29.0719	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot K3V7J-SJ)			+/-	301.6872	µg/mL	Unstressed
	Purity 99%				+/-	302.4035	µg/mL	Stressed
20	I,1,I-Trichloroethane		2,501.3	µg/mL	+/-	14.5429	µg/mL	Gravimetric
	CAS # 71-55-6.SEC	(Lot CS160712)			+/-	150.9162	µg/mL	Unstressed
	Purity 98%				+/-	151.2745	µg/mL	Stressed
21	Cyclohexane		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	150.8512	µg/mL	Unstressed
	Purity 99%				+/-	151.2093	µg/mL	Stressed
22	1,1-Dichloropropene		2,500.4	µg/mL	+/-	14.5378	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 4672600)			+/-	150.8626	µg/mL	Unstressed
	Purity 96%				+/-	151.2208	µg/mL	Stressed
23	Carbon tetrachloride		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed

24	n-Heptane (C7)		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot OGM01)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
25	1,2-Dichloroethane		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
26	Benzene		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	150.8738	µg/mL	Unstressed
	Purity 99%				+/-	151.2320	µg/mL	Stressed
27	Trichloroethene		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
28	Methylcyclohexane		2,501.9	µg/mL	+/-	14.5461	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot 24MSD-CD)			+/-	150.9492	µg/mL	Unstressed
	Purity 99%				+/-	151.3076	µg/mL	Stressed
29	1,2-Dichloropropane		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot OGG01)			+/-	150.8813	µg/mL	Unstressed
	Purity 99%				+/-	151.2395	µg/mL	Stressed
30	Bromodichloromethane		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 10171168)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
31	1,4-Dioxane		50,014.8	µg/mL	+/-	290.7749	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot CHA4A)			+/-	3,017.6100	µg/mL	Unstressed
	Purity 99%				+/-	3,024.7743	µg/mL	Stressed
32	Dibromomethane		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)			+/-	150.9190	µg/mL	Unstressed
	Purity 99%				+/-	151.2773	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 7ZLXJ-TJ)			+/-	150.8813	µg/mL	Unstressed
	Purity 99%				+/-	151.2395	µg/mL	Stressed
34	Toluene		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
35	Ethyl methacrylate		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	150.9341	µg/mL	Unstressed
	Purity 99%				+/-	151.2925	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot 2ECIC)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,500.5	µg/mL	+/-	14.5379	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 3440900)			+/-	150.8644	µg/mL	Unstressed
	Purity 98%				+/-	151.2226	µg/mL	Stressed
38	1,3-Diehloropropane		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
39	Tetrachloroethene		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed

40	Dibromochloromethane		2,501.9	µg/mL	+/-	14.5461	µg/mL	Gravimetrie
	CAS # 124-48-1.SEC	(Lot 10181507)			+/-	150.9491	µg/mL	Unstressed
	Purity 97%				+/-	151.3074	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 3505900)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
42	Chlorobenzene		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
43	1,1,1,2-Tetrachlorocthane		2,501.0	µg/mL	+/-	14.5408	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	150.8940	µg/mL	Unstressed
	Purity 98%				+/-	151.2522	µg/mL	Stressed
44	Ethylbenzene		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot P14SE)			+/-	150.9190	µg/mL	Unstressed
	Purity 99%				+/-	151.2773	µg/mL	Stressed
45	m-Xylene		1,250.9	µg/mL	+/-	7.2727	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)			+/-	75.4708	µg/mL	Unstressed
	Purity 99%				+/-	75.6500	µg/mL	Stressed
46	p-Xylene		1,250.8	µg/mL	+/-	7.2720	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)			+/-	75.4633	µg/mL	Unstressed
	Purity 99%				+/-	75.6425	µg/mL	Stressed
47	o-Xylene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01-KTPK)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
48	Styrene		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OF1OL-IA)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot 2PHXG-IH)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
50	Bromoform		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 5139000)			+/-	150.8512	µg/mL	Unstressed
	Purity 99%				+/-	151.2093	µg/mL	Stressed
51	1,1,2,2-Tetrachloroethane		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
52	Chloroform		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	CAS # 67-66-3.SEC	(Lot 1297547)			+/-	150.8738	µg/mL	Unstressed
	Purity 99%				+/-	151.2320	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,501.5	µg/mL	+/-	14.5436	µg/mL	Gravimetrie
	CAS # 96-18-4.SEC	(Lot OGI01)			+/-	150.9236	µg/mL	Unstressed
	Purity 98%				+/-	151.2819	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene		2,500.5	µg/mL	+/-	14.5379	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)			+/-	150.8644	µg/mL	Unstressed
	Purity 98%				+/-	151.2226	µg/mL	Stressed
55	n-Propylbenzene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC-1T)			+/-	150.8361	µg/mL	Unstressed
	Purity 99%				+/-	151.1942	µg/mL	Stressed

56	Bromobenzene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
57	1,2,4-Trimethylbenzene		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot SC7LO-QA)			+/-	150.8738	µg/mL	Unstressed
	Purity 99%				+/-	151.2320	µg/mL	Stressed
58	2-Chlorotoluene		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)			+/-	150.8738	µg/mL	Unstressed
	Purity 99%				+/-	151.2320	µg/mL	Stressed
59	4-Chlorotoluene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
60	tert-Butylbenzene		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot OGN01-CAI)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
61	1,3,5-Trimethylbenzene		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot FGH02-CMLN)			+/-	150.8813	µg/mL	Unstressed
	Purity 99%				+/-	151.2395	µg/mL	Stressed
62	sec-Butylbenzene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot OGN01-IMA)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)		2,501.5	µg/mL	+/-	14.5441	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 1195000)			+/-	150.9278	µg/mL	Unstressed
	Purity 96%				+/-	151.2861	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	150.9341	µg/mL	Unstressed
	Purity 99%				+/-	151.2925	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
66	n-Butylbenzene		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot OGN01-PNP)			+/-	150.9190	µg/mL	Unstressed
	Purity 99%				+/-	151.2773	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot 4NRGF-OT)			+/-	150.8512	µg/mL	Unstressed
	Purity 99%				+/-	151.2093	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,500.3	µg/mL	+/-	14.5369	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)			+/-	150.8539	µg/mL	Unstressed
	Purity 97%				+/-	151.2121	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
70	Hexachlorobutadiene		2,500.7	µg/mL	+/-	14.5394	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 4974700)			+/-	150.8792	µg/mL	Unstressed
	Purity 98%				+/-	151.2374	µg/mL	Stressed
71	Naphthalene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	150.8361	µg/mL	Unstressed
	Purity 99%				+/-	151.1942	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,501.6 µg/mL	+/-	14.5444	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/-	150.9310	µg/mL	Unstressed
	Purity 98%			+/-	151.2893	µg/mL	Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

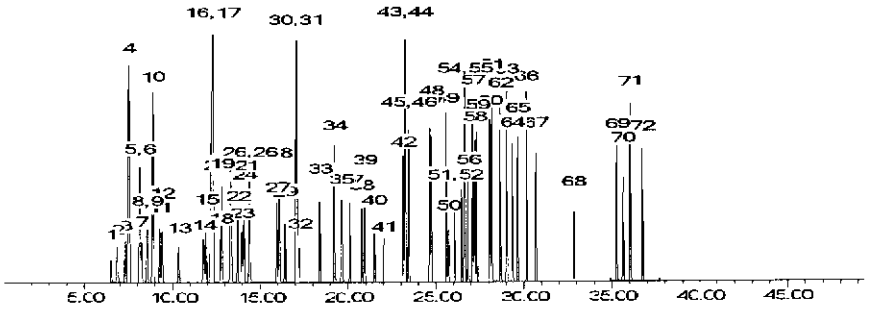
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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 J Maye

Date Mixed: 25-Jul-2016 **Balance:** 1127510105

Jennifer L Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 28-Jul-2016

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

Reagent

8260VinAcetat_00052

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

REC'D 2-8-17
JDH
1101202 - 1204

Catalog No. : 569724 **Lot No.:** A0123626

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : June 30, 2017 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	5.033.0 µg/mL	+/- 29.5365	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBD7333V)		+/- 303.6897	µg/mL	Unstressed
	Purity 99%		+/- 304.4106	µg/mL	Stressed

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

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

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

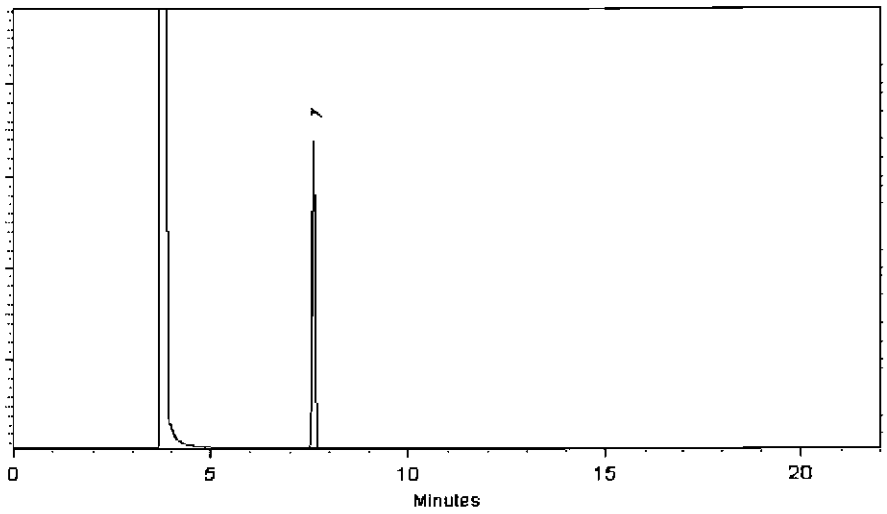
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

F. Joseph Tallon - Mix Technician

Date Mixed: 20-Dec-2016 **Balance:** B251644995

Amanda Miller - Operations Tech-ARM QC

Date Passed: 29-Dec-2016

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

Reagent

Acrolein_00044

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

REC'D 2-8-17
JDH
1106330

Catalog No. : 568720 **Lot No.:** A0123343

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/mL, Water, 1 mL/ampul

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

Expiration Date : April 30, 2017 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein	19,778.0 µg/mL	+/- 115.8045	µg/mL	Gravimetric
	CAS # 107-02-8 (Lot A160912JLM)		+/- 634.1449	µg/mL	Unstressed
	Purity 99%		+/- 737.1240	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

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

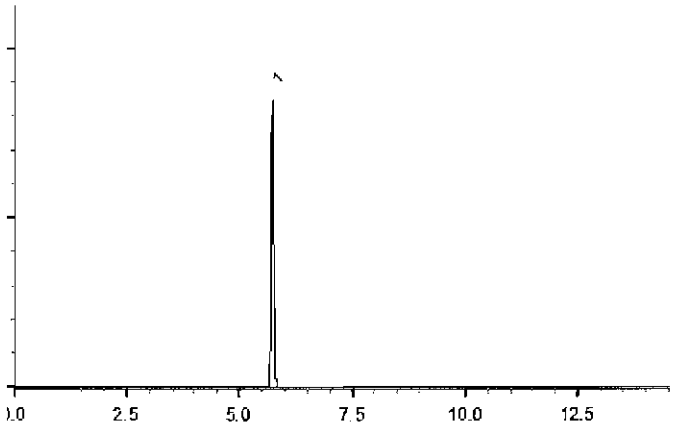
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Kendra Jozefick - Mix Technician

Date Mixed: 08-Dec-2016 **Balance:** 1125113331

Justine Albertson - Operations Tech-ARM QC

Date Passed: 12-Dec-2016

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

Reagent

Adds(A) 2016_00012

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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. : 570808 **Lot No.:** A0123685

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2500-62500 µg/ml, P&T Methanol, 1 ml/ampul

REC'D 1-12-17 JDH

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

Expiration Date : June 30, 2018 **Storage:** 0°C or colder

1106331-333

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 SHBG8138V) **Purity** 99%	25,022.0 µg/mL	+/- 145.4725 µg/mL +/- 1,237.7836 µg/mL +/- 1,268.5622 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 (Lot 161201JLM) **Purity** 99%	2,515.5 µg/mL	+/- 14.6253 µg/mL +/- 124.4364 µg/mL +/- 127.5306 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 (Lot 1012014) **Purity** 99%	25,000.0 µg/mL	+/- 145.3446 µg/mL +/- 1,236.6953 µg/mL +/- 1,267.4469 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 (Lot SHBD2922V) **Purity** 99%	2,508.0 µg/mL	+/- 14.5817 µg/mL +/- 124.0654 µg/mL +/- 127.1504 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 (Lot SHBF9309V) **Purity** 99%	62,715.5 µg/mL	+/- 364.6143 µg/mL +/- 3,102.3986 µg/mL +/- 3,179.5425 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 (Lot BCBL0537V) **Purity** 98%	5,007.8 µg/mL	+/- 29.1158 µg/mL +/- 247.7251 µg/mL +/- 253.8850 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 (Lot 05107LK) **Purity** 98%	2,501.5 µg/mL	+/- 14.5436 µg/mL +/- 123.7413 µg/mL +/- 126.8183 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene		2,516.2	µg/mL	+/-	14.6291	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 877605-15)			+/-	124.4685	µg/mL	Unstressed
	Purity 98%				+/-	127.5635	µg/mL	Stressed
9	Benzyl chloride		2,508.3	µg/mL	+/-	14.5832	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBB7346V)			+/-	124.0777	µg/mL	Unstressed
	Purity 99%				+/-	127.1630	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,508.0	µg/mL	+/-	14.5817	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	124.0654	µg/mL	Unstressed
	Purity 99%				+/-	127.1504	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)

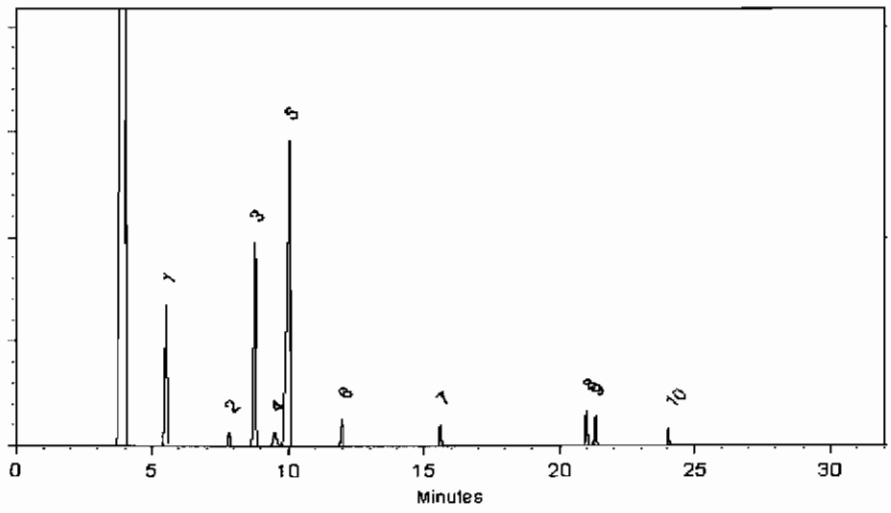
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Rebecca Sawyer

Amanda Miller - Operations Tech-ARM QC

Date Mixed: 21-Dec-2016 **Balance:** 1125113331

Date Passed: 27-Dec-2016

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

Reagent

Adds(B) 2016_00012

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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.:** A0120639

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2500-5000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : January 31, 2018 **Storage:** 0°C or colder

REC'D 1-12-17
JDH
1054716-717
1106337

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Ethyl acetate		5,018.5 µg/mL	+/- 29.3844	µg/mL	Gravimetric
	CAS # 141-78-6	(Lot SHBG6401V)		+/- 302.8083	µg/mL	Unstressed
	Purity 99%			+/- 303.5271	µg/mL	Stressed
2	Ethyl acrylate		2,506.5 µg/mL	+/- 14.7095	µg/mL	Gravimetric
	CAS # 140-88-5	(Lot 10129902)		+/- 151.2415	µg/mL	Unstressed
	Purity 99%			+/- 151.6005	µg/mL	Stressed
3	Methyl methacrylate		5,005.5 µg/mL	+/- 29.3083	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKBN8882V)		+/- 302.0239	µg/mL	Unstressed
	Purity 99%			+/- 302.7409	µg/mL	Stressed
4	Butyl acetate		2,501.0 µg/mL	+/- 14.6773	µg/mL	Gravimetric
	CAS # 123-86-4	(Lot SHBC9340V)		+/- 150.9096	µg/mL	Unstressed
	Purity 99%			+/- 151.2678	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)

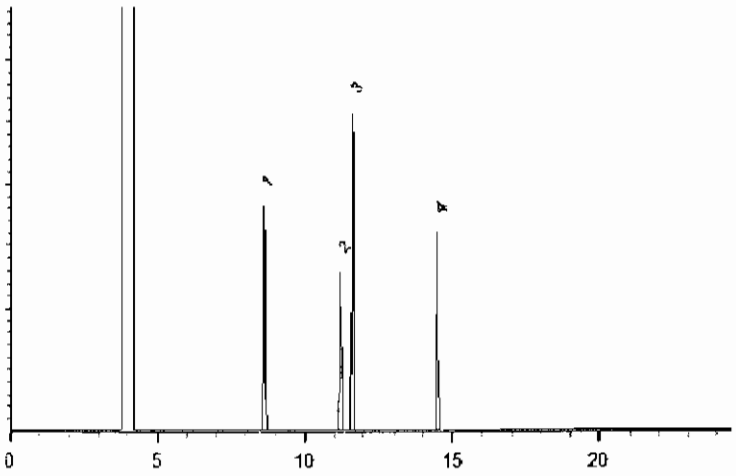
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Dawn Brownson - Mix Technician

Date Mixed: 26-Jul-2016 **Balance:** 1125113331

Date Passed: 28-Jul-2016

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

Reagent

Polar Add._00041

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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. : 569728 **Lot No.:** A0114666

Description : 8260 List 3/ Std#1 Polar Additions (2015)

8260 List 3/ Std#1 Polar Additions (2015) 2500-100,000 µg/ml, 1 ml/ampul

REC'D 12-12-16 JDH

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

Expiration Date : October 31, 2017 **Storage:** 0°C or colder

1074896-898

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethanol		100,005.8 µg/mL	+/- 581.4117 µg/mL	Gravimetric
	CAS # 64-17-5	(Lot PG0219)		+/- 4,947.0657 µg/mL	Unstressed
	Purity 99%			+/- 5,070.0789 µg/mL	Stressed
2	Acetonitrile		25,001.0 µg/mL	+/- 145.3505 µg/mL	Gravimetric
	CAS # 75-05-8	(Lot SHBB3177V)		+/- 1,236.7460 µg/mL	Unstressed
	Purity 98%			+/- 1,267.4988 µg/mL	Stressed
3	Diisopropyl ether (DIPE)		2,500.8 µg/mL	+/- 14.5396 µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBB6268V)		+/- 123.7067 µg/mL	Unstressed
	Purity 99%			+/- 126.7828 µg/mL	Stressed
4	Ethyl-tert-butyl ether (ETBE)		2,505.0 µg/mL	+/- 14.5643 µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKBR1623V)		+/- 123.9170 µg/mL	Unstressed
	Purity 99%			+/- 126.9983 µg/mL	Stressed
5	Propionitrile		25,001.5 µg/mL	+/- 145.3533 µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCBM6569V)		+/- 1,236.7695 µg/mL	Unstressed
	Purity 99%			+/- 1,267.5229 µg/mL	Stressed
6	tert-Amyl alcohol		25,012.3 µg/mL	+/- 145.4158 µg/mL	Gravimetric
	CAS # 75-85-4	(Lot STBB1898V)		+/- 1,237.3013 µg/mL	Unstressed
	Purity 99%			+/- 1,268.0679 µg/mL	Stressed
7	tert-Amyl methyl ether (TAME)		2,503.5 µg/mL	+/- 14.5556 µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBC8037V)		+/- 123.8428 µg/mL	Unstressed
	Purity 99%			+/- 126.9222 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)

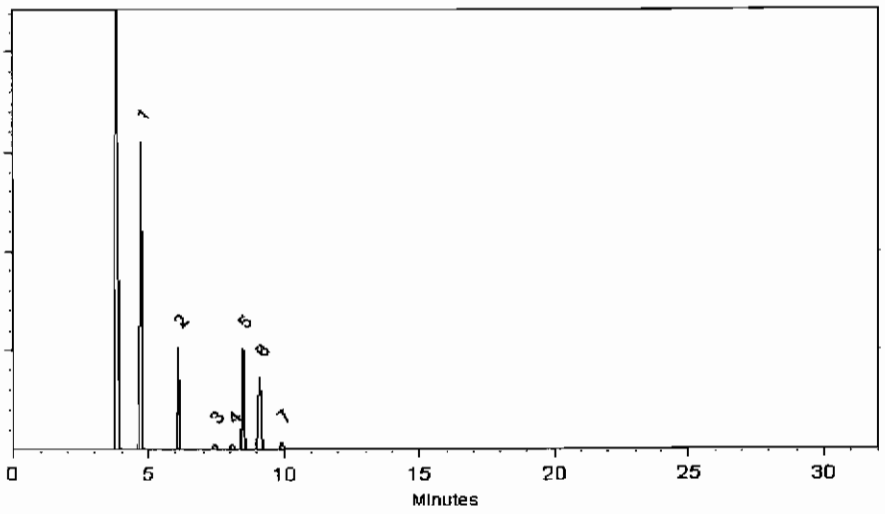
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

F. Joseph Tallon - Mix Technician

Date Mixed: 12-Oct-2015 **Balance:** B251644995

Jennifer L. Pollino - QC Analyst

Date Passed: 14-Oct-2015

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: TestAmerica St. Louis Job No.: 280-95891-1

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 #
6MW2004	280-95891-1	100	107	101	104
6MW2004D	280-95891-2	102	109	102	107
6MW2204	280-95891-3	101	105	101	105
6MW2304	280-95891-4	100	103	102	102
6MW2404	280-95891-5	103	106	102	104
6MW2504	280-95891-6	101	104	101	101
6MW2604	280-95891-7	107	113	107	107
TB05	280-95891-8	96	99	101	102
	MB 160-303915/9	93	99	101	104
	LCS 160-303915/5	99	102	101	93
	LCSD 160-303915/6	100	102	100	93
6MW2004MS MS	280-95891-1 MS	103	105	99	90
6MW2004MSD MSD	280-95891-1 MSD	101	101	96	91

	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: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MLCS4334.D

Lab ID: LCS 160-303915/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	50.3	101	78-124	
1,1,1-Trichloroethane	50.0	51.3	103	74-131	
1,1,2,2-Tetrachloroethane	50.0	50.3	101	71-121	
1,1,2-Trichloroethane	50.0	49.4	99	80-119	
1,1-Dichloroethane	50.0	50.9	102	77-125	
1,1-Dichloroethene	50.0	49.2	98	71-131	
1,1-Dichloropropene	50.0	48.4	97	79-125	
1,2,3-Trichlorobenzene	50.0	48.7	97	69-129	
1,2,3-Trichloropropane	50.0	50.8	102	73-122	
1,2,4-Trimethylbenzene	50.0	54.1	108	76-124	
1,2-Dibromo-3-Chloropropane	50.0	49.6	99	62-128	
1,2-Dibromoethane	50.0	49.2	98	80-120	
1,2-Dichloroethane	50.0	49.8	100	73-128	
1,2-Dichloropropane	50.0	48.5	97	78-122	
1,3,5-Trimethylbenzene	50.0	53.2	106	75-124	
1,3-Dichloropropane	50.0	48.4	97	80-119	
2,2-Dichloropropane	50.0	48.5	97	60-139	
2-Butanone (MEK)	50.0	47.1	94	56-143	
2-Chlorotoluene	50.0	52.5	105	79-122	
2-Hexanone	50.0	49.8	100	57-139	
4-Chlorotoluene	50.0	52.0	104	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	51.3	103	67-130	
Acetone	50.0	43.1	86	39-160	
Benzene	50.0	48.2	96	79-120	
Bromobenzene	50.0	49.9	100	80-120	
Bromochloromethane	50.0	48.5	97	78-123	
Bromodichloromethane	50.0	50.0	100	79-125	
Bromoform	50.0	52.4	105	66-130	
Bromomethane	50.0	70.8	142	53-141	Q
Carbon disulfide	50.0	49.6	99	64-133	
Carbon tetrachloride	50.0	51.5	103	72-136	
Chlorobenzene	50.0	50.7	101	82-118	
Chloroethane	50.0	64.4	129	60-138	
Chloroform	50.0	50.0	100	79-124	
Chloromethane	50.0	58.5	117	50-139	
cis-1,2-Dichloroethene	50.0	47.8	96	78-123	
cis-1,3-Dichloropropene	50.0	48.7	97	75-124	
Dibromochloromethane	50.0	50.3	101	74-126	
Dibromomethane	50.0	49.6	99	79-123	
Dichlorodifluoromethane	50.0	60.1	120	32-152	
Ethylbenzene	50.0	48.1	96	79-121	
Isopropylbenzene	50.0	48.9	98	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: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MLCS4334.D

Lab ID: LCS 160-303915/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	48.4	97	80-121	
Methyl tert-butyl ether	50.0	46.1	92	71-124	
Methylene Chloride	50.0	47.7	95	74-124	
Naphthalene	50.0	46.3	93	61-128	
n-Butylbenzene	50.0	53.9	108	75-128	
N-Propylbenzene	50.0	51.0	102	76-126	
o-Xylene	50.0	47.8	96	78-122	
p-Isopropyltoluene	50.0	53.5	107	77-127	
sec-Butylbenzene	50.0	51.9	104	77-126	
Styrene	50.0	51.6	103	78-123	
tert-Butylbenzene	50.0	53.2	106	78-124	
Tetrachloroethene	50.0	50.3	101	74-129	
Toluene	50.0	48.6	97	80-121	
trans-1,2-Dichloroethene	50.0	48.0	96	75-124	
trans-1,3-Dichloropropene	50.0	50.6	101	73-127	
Trichloroethene	50.0	50.5	101	79-123	
Trichlorofluoromethane	50.0	56.4	113	65-141	
Vinyl chloride	50.0	55.5	111	58-137	
Xylenes (total)	100	96.2	96	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: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MLCS4335.D

Lab ID: LCSD 160-303915/6 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	50.5	101	0	20	78-124	
1,1,1-Trichloroethane	50.0	51.6	103	1	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	52.2	104	4	20	71-121	
1,1,2-Trichloroethane	50.0	50.3	101	2	20	80-119	
1,1-Dichloroethane	50.0	51.7	103	2	20	77-125	
1,1-Dichloroethene	50.0	50.0	100	1	20	71-131	
1,1-Dichloropropene	50.0	49.5	99	2	20	79-125	
1,2,3-Trichlorobenzene	50.0	53.0	106	8	20	69-129	
1,2,3-Trichloropropane	50.0	52.8	106	4	20	73-122	
1,2,4-Trimethylbenzene	50.0	55.8	112	3	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	55.1	110	11	20	62-128	
1,2-Dibromoethane	50.0	50.3	101	2	20	80-120	
1,2-Dichloroethane	50.0	51.9	104	4	20	73-128	
1,2-Dichloropropane	50.0	50.0	100	3	20	78-122	
1,3,5-Trimethylbenzene	50.0	54.5	109	2	20	75-124	
1,3-Dichloropropane	50.0	49.3	99	2	20	80-119	
2,2-Dichloropropane	50.0	49.8	100	3	20	60-139	
2-Butanone (MEK)	50.0	51.4	103	9	20	56-143	
2-Chlorotoluene	50.0	52.8	106	1	20	79-122	
2-Hexanone	50.0	54.8	110	10	20	57-139	
4-Chlorotoluene	50.0	52.7	105	1	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	55.3	111	8	20	67-130	
Acetone	50.0	47.4	95	10	20	39-160	
Benzene	50.0	49.6	99	3	20	79-120	
Bromobenzene	50.0	50.0	100	0	20	80-120	
Bromochloromethane	50.0	50.3	101	4	20	78-123	
Bromodichloromethane	50.0	51.6	103	3	20	79-125	
Bromoform	50.0	52.0	104	1	20	66-130	
Bromomethane	50.0	72.4	145	2	20	53-141	Q
Carbon disulfide	50.0	50.4	101	2	20	64-133	
Carbon tetrachloride	50.0	51.7	103	1	20	72-136	
Chlorobenzene	50.0	51.8	104	2	20	82-118	
Chloroethane	50.0	65.3	131	1	20	60-138	M
Chloroform	50.0	51.0	102	2	20	79-124	
Chloromethane	50.0	60.8	122	4	20	50-139	
cis-1,2-Dichloroethene	50.0	48.9	98	2	20	78-123	
cis-1,3-Dichloropropene	50.0	50.2	100	3	20	75-124	
Dibromochloromethane	50.0	50.9	102	1	20	74-126	
Dibromomethane	50.0	50.6	101	2	20	79-123	
Dichlorodifluoromethane	50.0	62.0	124	3	20	32-152	
Ethylbenzene	50.0	48.7	97	1	20	79-121	
Isopropylbenzene	50.0	49.0	98	0	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: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MLCS4335.D

Lab ID: LCSD 160-303915/6 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	50.0	100	3	20	80-121	
Methyl tert-butyl ether	50.0	48.7	97	5	20	71-124	
Methylene Chloride	50.0	50.1	100	5	20	74-124	
Naphthalene	50.0	51.4	103	10	20	61-128	
n-Butylbenzene	50.0	55.9	112	4	20	75-128	
N-Propylbenzene	50.0	51.4	103	1	20	76-126	
o-Xylene	50.0	48.9	98	2	20	78-122	
p-Isopropyltoluene	50.0	54.8	110	2	20	77-127	
sec-Butylbenzene	50.0	52.4	105	1	20	77-126	
Styrene	50.0	53.3	107	3	20	78-123	
tert-Butylbenzene	50.0	53.8	108	1	20	78-124	
Tetrachloroethene	50.0	50.7	101	1	20	74-129	
Toluene	50.0	49.1	98	1	20	80-121	
trans-1,2-Dichloroethene	50.0	48.8	98	2	20	75-124	
trans-1,3-Dichloropropene	50.0	50.8	102	0	20	73-127	
Trichloroethene	50.0	51.6	103	2	20	79-123	
Trichlorofluoromethane	50.0	55.7	111	1	20	65-141	
Vinyl chloride	50.0	56.5	113	2	20	58-137	
Xylenes (total)	100	98.9	99	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: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MSMP4341.D

Lab ID: 280-95891-1 MS Client ID: 6MW2004MS 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	2.0 U	50.8	102	78-124	
1,1,1-Trichloroethane	50.0	1.0 U	51.5	103	74-131	
1,1,2,2-Tetrachloroethane	50.0	2.0 U	48.7	97	71-121	
1,1,2-Trichloroethane	50.0	1.0 U	49.8	100	80-119	
1,1-Dichloroethane	50.0	1.0 U	51.1	102	77-125	
1,1-Dichloroethene	50.0	1.0 U	48.9	98	71-131	
1,1-Dichloropropene	50.0	1.0 U	49.3	99	79-125	
1,2,3-Trichlorobenzene	50.0	2.0 U	42.5	85	69-129	
1,2,3-Trichloropropane	50.0	1.0 U	48.4	97	73-122	
1,2,4-Trimethylbenzene	50.0	2.0 U	49.4	99	76-124	
1,2-Dibromo-3-Chloropropane	50.0	2.0 U	44.7	89	62-128	
1,2-Dibromoethane	50.0	2.0 U	49.6	99	80-120	
1,2-Dichloroethane	50.0	1.0 U	52.4	105	73-128	
1,2-Dichloropropane	50.0	1.0 U	50.5	101	78-122	
1,3,5-Trimethylbenzene	50.0	2.0 U	49.1	98	75-124	
1,3-Dichloropropane	50.0	1.0 U	49.3	99	80-119	
2,2-Dichloropropane	50.0	2.0 U	50.0	100	60-139	
2-Butanone (MEK)	50.0	5.0 U	48.6	97	56-143	
2-Chlorotoluene	50.0	2.0 U	50.0	100	79-122	
2-Hexanone	50.0	2.0 U	47.4	95	57-139	
4-Chlorotoluene	50.0	2.0 U	49.4	99	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	2.0 U	48.9	98	67-130	
Acetone	50.0	9.9 J	49.9	80	39-160	
Benzene	50.0	1.0 U	49.4	99	79-120	
Bromobenzene	50.0	2.0 U	48.4	97	80-120	
Bromochloromethane	50.0	2.0 U	50.7	101	78-123	
Bromodichloromethane	50.0	2.0 U	51.8	104	79-125	
Bromoform	50.0	1.0 U	49.9	100	66-130	
Bromomethane	50.0	2.0 U	71.6	143	53-141	J
Carbon disulfide	50.0	1.0 U	49.6	99	64-133	
Carbon tetrachloride	50.0	1.0 U	51.5	103	72-136	
Chlorobenzene	50.0	1.0 U	51.1	102	82-118	
Chloroethane	50.0	1.0 U	64.5	129	60-138	
Chloroform	50.0	1.0 U	51.9	104	79-124	
Chloromethane	50.0	2.0 U	56.9	114	50-139	
cis-1,2-Dichloroethene	50.0	1.7 J	51.1	99	78-123	
cis-1,3-Dichloropropene	50.0	1.0 U	49.4	99	75-124	
Dibromochloromethane	50.0	1.0 U	50.8	102	74-126	
Dibromomethane	50.0	2.0 U	51.4	103	79-123	
Dichlorodifluoromethane	50.0	2.0 U	59.1	118	32-152	
Ethylbenzene	50.0	1.0 U	47.8	96	79-121	
Isopropylbenzene	50.0	2.0 U	46.6	93	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: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MSMP4341.D

Lab ID: 280-95891-1 MS Client ID: 6MW2004MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	1.0 U	48.6	97	80-121	
Methyl tert-butyl ether	50.0	2.0 U	48.5	97	71-124	
Methylene Chloride	50.0	5.0 U	49.5	99	74-124	
Naphthalene	50.0	2.0 U	39.4	79	61-128	
n-Butylbenzene	50.0	2.0 U	48.4	97	75-128	
N-Propylbenzene	50.0	2.0 U	48.2	96	76-126	
o-Xylene	50.0	1.0 U	47.8	96	78-122	
p-Isopropyltoluene	50.0	2.0 U	49.1	98	77-127	
sec-Butylbenzene	50.0	2.0 U	48.5	97	77-126	
Styrene	50.0	1.0 U	52.1	104	78-123	
tert-Butylbenzene	50.0	2.0 U	50.0	100	78-124	
Tetrachloroethene	50.0	1.0 U	49.5	99	74-129	
Toluene	50.0	1.0 U	48.3	97	80-121	
trans-1,2-Dichloroethene	50.0	1.0 U	48.8	98	75-124	
trans-1,3-Dichloropropene	50.0	1.0 U	51.0	102	73-127	
Trichloroethene	50.0	1.0 U	51.3	103	79-123	
Trichlorofluoromethane	50.0	2.0 U	55.6	111	65-141	
Vinyl chloride	50.0	1.7 J	54.6	106	58-137	
Xylenes (total)	100	5.0 U	96.4	96	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: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MSMP4342.D

Lab ID: 280-95891-1 MSD Client ID: 6MW2004MSD 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	2	20	78-124	
1,1,1-Trichloroethane	50.0	51.4	103	0	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	48.8	98	0	20	71-121	
1,1,2-Trichloroethane	50.0	48.3	97	3	20	80-119	
1,1-Dichloroethane	50.0	50.7	101	1	20	77-125	
1,1-Dichloroethene	50.0	49.6	99	1	20	71-131	
1,1-Dichloropropene	50.0	49.1	98	0	20	79-125	
1,2,3-Trichlorobenzene	50.0	50.8	102	18	20	69-129	
1,2,3-Trichloropropane	50.0	48.5	97	0	20	73-122	
1,2,4-Trimethylbenzene	50.0	54.0	108	9	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	48.6	97	8	20	62-128	
1,2-Dibromoethane	50.0	48.0	96	3	20	80-120	
1,2-Dichloroethane	50.0	51.5	103	2	20	73-128	
1,2-Dichloropropane	50.0	50.6	101	0	20	78-122	
1,3,5-Trimethylbenzene	50.0	52.9	106	7	20	75-124	
1,3-Dichloropropane	50.0	47.8	96	3	20	80-119	
2,2-Dichloropropane	50.0	49.4	99	1	20	60-139	
2-Butanone (MEK)	50.0	47.1	94	3	20	56-143	
2-Chlorotoluene	50.0	52.1	104	4	20	79-122	
2-Hexanone	50.0	46.7	93	1	20	57-139	
4-Chlorotoluene	50.0	51.7	103	4	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	48.1	96	2	20	67-130	
Acetone	50.0	48.7	78	2	20	39-160	
Benzene	50.0	49.3	99	0	20	79-120	
Bromobenzene	50.0	49.4	99	2	20	80-120	
Bromochloromethane	50.0	50.3	101	1	20	78-123	
Bromodichloromethane	50.0	51.4	103	1	20	79-125	
Bromoform	50.0	48.7	97	2	20	66-130	
Bromomethane	50.0	73.7	147	3	20	53-141	J
Carbon disulfide	50.0	50.1	100	1	20	64-133	
Carbon tetrachloride	50.0	51.3	103	0	20	72-136	
Chlorobenzene	50.0	51.0	102	0	20	82-118	
Chloroethane	50.0	65.0	130	1	20	60-138	
Chloroform	50.0	51.6	103	1	20	79-124	
Chloromethane	50.0	60.3	121	6	20	50-139	
cis-1,2-Dichloroethene	50.0	51.0	99	0	20	78-123	
cis-1,3-Dichloropropene	50.0	48.9	98	1	20	75-124	
Dibromochloromethane	50.0	49.5	99	3	20	74-126	
Dibromomethane	50.0	50.5	101	2	20	79-123	
Dichlorodifluoromethane	50.0	60.4	121	2	20	32-152	
Ethylbenzene	50.0	47.7	95	0	20	79-121	
Isopropylbenzene	50.0	48.1	96	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: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MSMP4342.D

Lab ID: 280-95891-1 MSD Client ID: 6MW2004MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m,p-Xylenes	50.0	49.1	98	1	20	80-121	
Methyl tert-butyl ether	50.0	48.1	96	1	20	71-124	
Methylene Chloride	50.0	50.0	100	1	20	74-124	
Naphthalene	50.0	47.9	96	20	20	61-128	
n-Butylbenzene	50.0	53.3	107	10	20	75-128	
N-Propylbenzene	50.0	50.2	100	4	20	76-126	
o-Xylene	50.0	48.9	98	2	20	78-122	
p-Isopropyltoluene	50.0	52.7	105	7	20	77-127	
sec-Butylbenzene	50.0	51.1	102	5	20	77-126	
Styrene	50.0	52.7	105	1	20	78-123	
tert-Butylbenzene	50.0	53.1	106	6	20	78-124	
Tetrachloroethene	50.0	48.9	98	1	20	74-129	
Toluene	50.0	48.3	97	0	20	80-121	
trans-1,2-Dichloroethene	50.0	48.6	97	0	20	75-124	
trans-1,3-Dichloropropene	50.0	49.2	98	4	20	73-127	
Trichloroethene	50.0	51.0	102	1	20	79-123	
Trichlorofluoromethane	50.0	54.8	110	2	20	65-141	
Vinyl chloride	50.0	57.3	111	5	20	58-137	
Xylenes (total)	100	98.0	98	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: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Lab File ID: MBLK4338.D Lab Sample ID: MB 160-303915/9

Matrix: Water Heated Purge:(Y/N) Y

Instrument ID: VMSM Date Analyzed: 04/17/2017 19:40

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 160-303915/5	MLCS4334.D	04/17/2017 17:59
	LCSD 160-303915/6	MLCS4335.D	04/17/2017 18:24
TB05	280-95891-8	MSMP4339.D	04/17/2017 20:05
6MW2004	280-95891-1	MSMP4340.D	04/17/2017 20:31
6MW2004MS MS	280-95891-1 MS	MSMP4341.D	04/17/2017 20:56
6MW2004MSD MSD	280-95891-1 MSD	MSMP4342.D	04/17/2017 21:22
6MW2004D	280-95891-2	MSMP4345.D	04/17/2017 22:37
6MW2204	280-95891-3	MSMP4346.D	04/17/2017 23:03
6MW2304	280-95891-4	MSMP4347.D	04/17/2017 23:28
6MW2404	280-95891-5	MSMP4348.D	04/17/2017 23:53
6MW2504	280-95891-6	MSMP4349.D	04/18/2017 00:19
6MW2604	280-95891-7	MSMP4350.D	04/18/2017 00:44

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Lab File ID: MBFB3848.D BFB Injection Date: 03/07/2017

Instrument ID: VMSM BFB Injection Time: 21:37

Analysis Batch No.: 296453

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.0	
75	30.0 - 60.0 % of mass 95	42.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.2	(0.2) 1
174	50.0 - 120.00 % of mass 95	91.5	
175	5.0 - 9.0 % of mass 174	6.5	(7.1) 1
176	95.0 - 101.0 % of mass 174	87.9	(96.1) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.3) 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 160-296453/3	MICL3849.D	03/07/2017	21:59
	IC 160-296453/4	MICL3850.D	03/07/2017	22:25
	IC 160-296453/5	MICL3851.D	03/07/2017	22:50
	IC 160-296453/6	MICL3852.D	03/07/2017	23:15
	IC 160-296453/7	MICL3853.D	03/07/2017	23:41
	ICIS 160-296453/8	MICL3854.D	03/08/2017	00:06
	IC 160-296453/9	MICL3855.D	03/08/2017	00:31
	IC 160-296453/10	MICL3856.D	03/08/2017	00:57
	ICV 160-296453/13	MICV3859.D	03/08/2017	02:13

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Lab File ID: MBFB4332.D BFB Injection Date: 04/17/2017

Instrument ID: VMSM BFB Injection Time: 16:59

Analysis Batch No.: 303915

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.4	
75	30.0 - 60.0 % of mass 95	43.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.4	(0.4) 1
174	50.0 - 120.00 % of mass 95	90.1	
175	5.0 - 9.0 % of mass 174	6.1	(6.7) 1
176	95.0 - 101.0 % of mass 174	87.4	(96.9) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.4) 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 160-303915/4	MCCV4333.D	04/17/2017	17:21
	LCS 160-303915/5	MLCS4334.D	04/17/2017	17:59
	LCSD 160-303915/6	MLCS4335.D	04/17/2017	18:24
	MB 160-303915/9	MBLK4338.D	04/17/2017	19:40
TB05	280-95891-8	MSMP4339.D	04/17/2017	20:05
6MW2004	280-95891-1	MSMP4340.D	04/17/2017	20:31
6MW2004MS MS	280-95891-1 MS	MSMP4341.D	04/17/2017	20:56
6MW2004MSD MSD	280-95891-1 MSD	MSMP4342.D	04/17/2017	21:22
6MW2004D	280-95891-2	MSMP4345.D	04/17/2017	22:37
6MW2204	280-95891-3	MSMP4346.D	04/17/2017	23:03
6MW2304	280-95891-4	MSMP4347.D	04/17/2017	23:28
6MW2404	280-95891-5	MSMP4348.D	04/17/2017	23:53
6MW2504	280-95891-6	MSMP4349.D	04/18/2017	00:19
6MW2604	280-95891-7	MSMP4350.D	04/18/2017	00:44
	CCVC 160-303915/22	MCCV4351.D	04/18/2017	01:09

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Sample No.: ICIS 160-296453/8 Date Analyzed: 03/08/2017 00:06

Instrument ID: VMSM GC Column: RTX-VMS40 ID: 0.18(mm)

Lab File ID (Standard): MICL3854.D Heated Purge: (Y/N) Y

Calibration ID: 12593

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1852513	8.63	1505472	11.49	746528	13.67
UPPER LIMIT		3705026	9.13	3010944	11.99	1493056	14.17
LOWER LIMIT		926257	8.13	752736	10.99	373264	13.17
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 160-296453/13		1958951	8.63	1550921	11.49	749909	13.67
CCV 160-303915/4		1698202	8.63	1389739	11.48	664595	13.66
LCS 160-303915/5		1757102	8.63	1412455	11.48	679849	13.66
LCSD 160-303915/6		1720219	8.63	1417902	11.48	692213	13.66
MB 160-303915/9		1629341	8.63	1304389	11.48	542748	13.66
280-95891-8	TB05	1665587	8.63	1338656	11.48	568590	13.66
280-95891-1	6MW2004	1512242	8.63	1258523	11.48	543689	13.66
280-95891-1 MS	6MW2004MS MS	1665886	8.63	1382195	11.48	692168	13.66
280-95891-1 MSD	6MW2004MSD MSD	1634278	8.63	1381728	11.48	680763	13.66
280-95891-2	6MW2004D	1476165	8.63	1228013	11.48	527241	13.66
280-95891-3	6MW2204	1525556	8.63	1244500	11.48	529252	13.66
280-95891-4	6MW2304	1543893	8.63	1246409	11.48	545385	13.66
280-95891-5	6MW2404	1503631	8.63	1233724	11.48	531250	13.66
280-95891-6	6MW2504	1525403	8.63	1244147	11.48	544980	13.66
280-95891-7	6MW2604	1504766	8.63	1217362	11.48	526828	13.66
CCVC 160-303915/22		1700072	8.63	1401409	11.48	691244	13.66

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: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2004 | Lab Sample ID: 280-95891-1

Matrix: Water | Lab File ID: MSMP4340.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 08:20

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 20:31

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	9.9	J	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U J Q	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U Q	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.7	J	5.0	1.0	0.16

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Matrix: Water | Lab File ID: MSMP4340.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 08:20

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 20:31

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U Q	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.7	J M	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		81-118
460-00-4	4-Bromofluorobenzene (Surr)	104		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\VMSM\20170417-10251.b\MSMP4340.D
Lims ID: 280-95891-B-1
Client ID: 6MW2004
Sample Type: Client
Inject. Date: 17-Apr-2017 20:31:30 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-011
Misc. Info.: 280-95891-B-1
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:12:07 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 17:28:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.031				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.198				ND	
3 Chloromethane	50		3.310				ND	
118 Butadiene	39		3.450				ND	
4 Vinyl chloride	62	3.436	3.436	-0.028	38	16457	1.65	M
5 Bromomethane	94		3.952				ND	
6 Chloroethane	64		4.162				ND	
7 Trichlorofluoromethane	101		4.371				ND	
119 Dichlorofluoromethane	67		4.469				ND	
8 Ethyl ether	74		4.860				ND	
9 Ethanol	45		5.070				ND	
10 1,1-Dichloroethene	96		5.140				ND	
11 Carbon disulfide	76		5.167				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.195				ND	
13 Iodomethane	142		5.335				ND	
14 Acrolein	56		5.600				ND	
16 3-Chloro-1-propene	39		5.768				ND	
17 Isopropyl alcohol	45	5.810	5.810	0.000	96	2485	7.74	
S 15 1,2-Dichloroethene, Total	96				0		1.67	
18 Methylene Chloride	84		5.908				ND	
19 Acetone	43	5.978	5.978	0.000	99	15689	9.87	
21 trans-1,2-Dichloroethene	96		6.103				ND	
20 Methyl acetate	74		6.117				ND	
22 Hexane	86		6.201				ND	
23 Methyl tert-butyl ether	73		6.229				ND	
24 2-Methyl-2-propanol	59		6.341				ND	
25 Acetonitrile	41		6.536				ND	
26 Isopropyl ether	45		6.662				ND	
27 2-Chloro-1,3-butadiene	53		6.788				ND	
28 1,1-Dichloroethane	63		6.816				ND	
29 Acrylonitrile	53		6.871				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.053				ND	
31 Vinyl acetate	43		7.067				ND	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	77	15004	1.67	
33 2,2-Dichloropropane	77		7.500				ND	
34 Chlorobromomethane	128		7.584				ND	
35 Cyclohexane	84		7.598				ND	
36 Chloroform	83		7.653				ND	
37 Ethyl acetate	45		7.765				ND	
38 Carbon tetrachloride	117		7.807				ND	
39 Tetrahydrofuran	71		7.821				ND	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	94	376580	49.9	
41 1,1,1-Trichloroethane	97		7.877				ND	
42 2-Butanone (MEK)	43		7.961				ND	
43 1,1-Dichloropropene	75		7.989				ND	
121 Isooctane	57		8.086				ND	
113 n-Heptane	43		8.170				ND	
45 Benzene	78		8.240				ND	
46 Propionitrile	54		8.268				ND	
47 Methacrylonitrile	41		8.282				ND	
48 Tert-amyl methyl ether	73		8.324				ND	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	349966	53.4	
44 Isobutyl alcohol	42		8.394				ND	
50 1,2-Dichloroethane	62		8.422				ND	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1512242	50.0	
53 Methylcyclohexane	55		8.785				ND	
52 Trichloroethene	95		8.785				ND	
122 1,4-Difluorobenzene	114		8.936				ND	
54 n-Butanol	56		9.036				ND	
55 Dibromomethane	93		9.190				ND	
120 Ethyl acrylate	55		9.246				ND	
56 1,2-Dichloropropane	63		9.274				ND	
57 Dichlorobromomethane	83		9.315				ND	
58 Methyl methacrylate	69		9.427				ND	
59 1,4-Dioxane	88		9.497				ND	
60 2-Chloroethyl vinyl ether	63		9.818				ND	
65 cis-1,3-Dichloropropene	75		9.888				ND	
$ 62 Toluene-d8 (Surr)	98	10.070	10.070	0.000	92	1561614	50.5	
63 Toluene	92		10.112				ND	
64 2-Nitropropane	43		10.321				ND	
71 4-Methyl-2-pentanone (MIBK	43		10.433				ND	
66 Tetrachloroethene	164		10.461				ND	
61 trans-1,3-Dichloropropene	75		10.475				ND	
67 Ethyl methacrylate	69		10.586				ND	
68 1,1,2-Trichloroethane	83		10.628				ND	
69 Chlorodibromomethane	129		10.796				ND	
70 1,3-Dichloropropane	76		10.880				ND	
72 Ethylene Dibromide	107		11.033				ND	
116 n-Butyl acetate	43		11.061				ND	
73 2-Hexanone	43		11.187				ND	
75 1-Chlorohexane	91		11.438				ND	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	84	1258523	50.0	
78 Chlorobenzene	112		11.508				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
77 Ethylbenzene	91		11.508				ND	
79 1,1,1,2-Tetrachloroethane	131		11.550				ND	
S 74 1,3-Dichloropropene, Total	75		11.620				ND	
80 m-Xylene & p-Xylene	106		11.634				ND	
81 o-Xylene	106		12.039				ND	
82 Styrene	104		12.081				ND	
84 Bromoform	173		12.123				ND	
85 Isopropylbenzene	105		12.318				ND	
83 Pentachloroethane	167		12.372				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.598	12.598	0.000	94	503467		52.1
87 N-Propylbenzene	91		12.695				ND	
88 Bromobenzene	156		12.723				ND	
89 1,1,2,2-Tetrachloroethane	83		12.751				ND	
90 1,3,5-Trimethylbenzene	105		12.877				ND	
91 2-Chlorotoluene	91		12.877				ND	
92 1,2,3-Trichloropropane	110		12.905				ND	
93 trans-1,4-Dichloro-2-buten	53		12.933				ND	
94 Cyclohexanone	55		12.975				ND	
95 4-Chlorotoluene	91		13.030				ND	
96 tert-Butylbenzene	119		13.184				ND	
97 1,2,4-Trimethylbenzene	105		13.254				ND	
98 sec-Butylbenzene	105		13.352				ND	
99 4-Isopropyltoluene	119		13.477				ND	
100 1,3-Dichlorobenzene	146		13.589				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	95	543689		50.0
102 1,4-Dichlorobenzene	146		13.673				ND	
117 1,2,3-Trimethylbenzene	105		13.673				ND	
103 n-Butylbenzene	134		13.896				ND	
114 Benzyl chloride	126		13.910				ND	
104 1,2-Dichlorobenzene	146		14.092				ND	
105 n-Nonyl Aldehyde	57	14.832	14.846	-0.014	55	1151		1.65
106 1,2-Dibromo-3-Chloropropan	157		14.874				ND	
107 1,3,5-Trichlorobenzene	180		14.902				ND	
108 Hexachlorobutadiene	225		15.489				ND	
109 1,2,4-Trichlorobenzene	180		15.544				ND	
110 Naphthalene	128		15.880				ND	
111 1,2,3-Trichlorobenzene	180		16.061				ND	
S 112 Xylenes, Total	106		16.500				ND	
S 115 Trihalomethanes, Total	1		0.000				ND	
127 2-Methylpentane	1		0.000				ND	
126 C6-C12	1		0.000				ND	
128 2-Pentanone	1		0.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

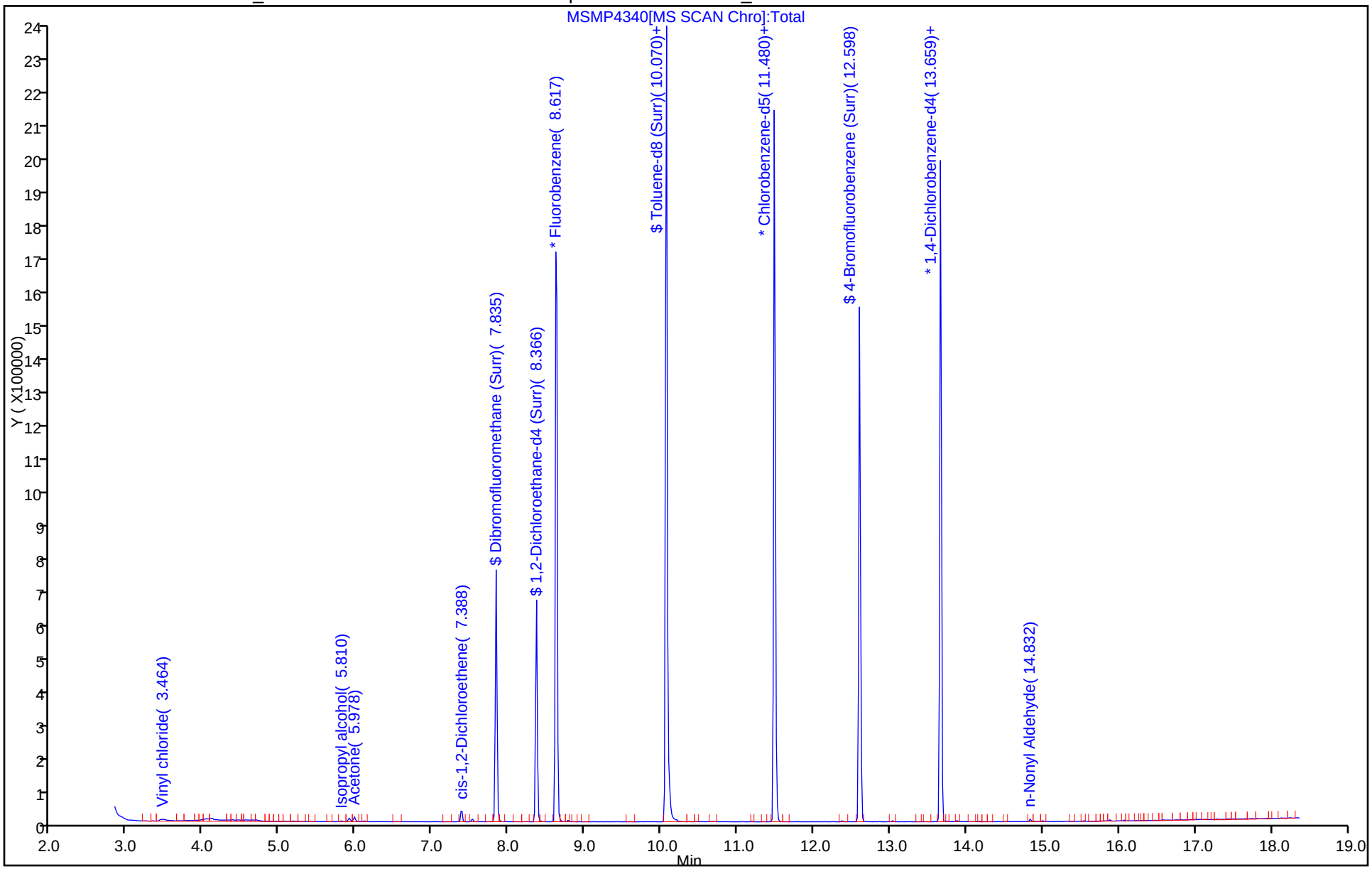
I.S. Working_00146	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 18:12:07 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4340.D

Injection Date:	17-Apr-2017 20:31:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	280-95891-B-1	Lab Sample ID:	160-95891-1	Worklist Smp#:	11
Client ID:	6MW2004				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4340.D
Lims ID: 280-95891-B-1
Client ID: 6MW2004
Sample Type: Client
Inject. Date: 17-Apr-2017 20:31:30 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-011
Misc. Info.: 280-95891-B-1
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:12:07 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 17:28:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 40 Dibromofluoromethane (Surr)	50.0	49.9	99.75
$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	53.4	106.85
$ 62 Toluene-d8 (Surr)	50.0	50.5	100.92
$ 86 4-Bromofluorobenzene (Surr)	50.0	52.1	104.21

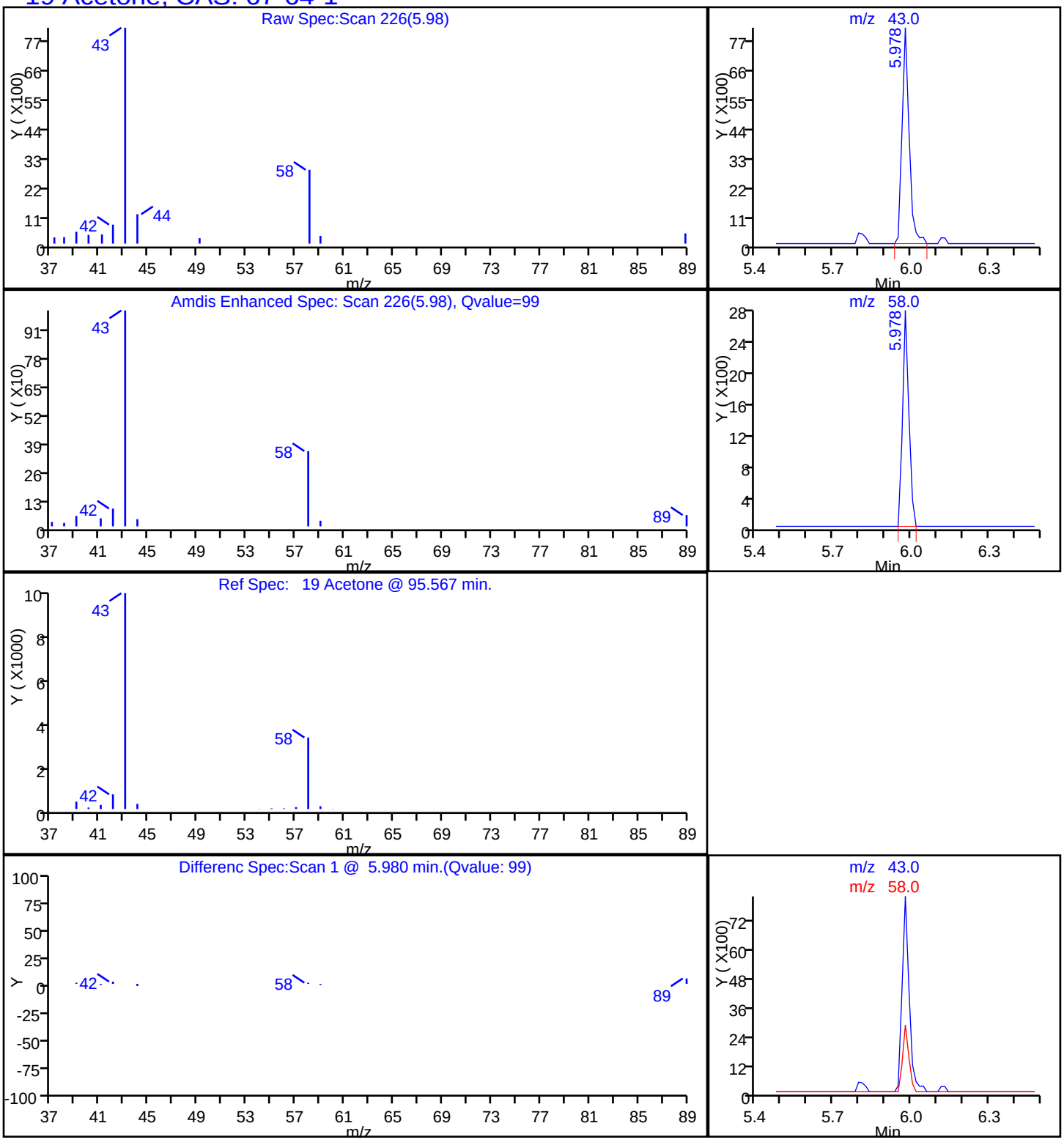
Report Date: 20-Apr-2017 18:12:08 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4340.D

Injection Date:	17-Apr-2017 20:31:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-1	Lab Sample ID:	160-95891-1		
Client ID:	6MW2004				
Operator ID:	JDH	ALS Bottle#:	9	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

19 Acetone, CAS: 67-64-1



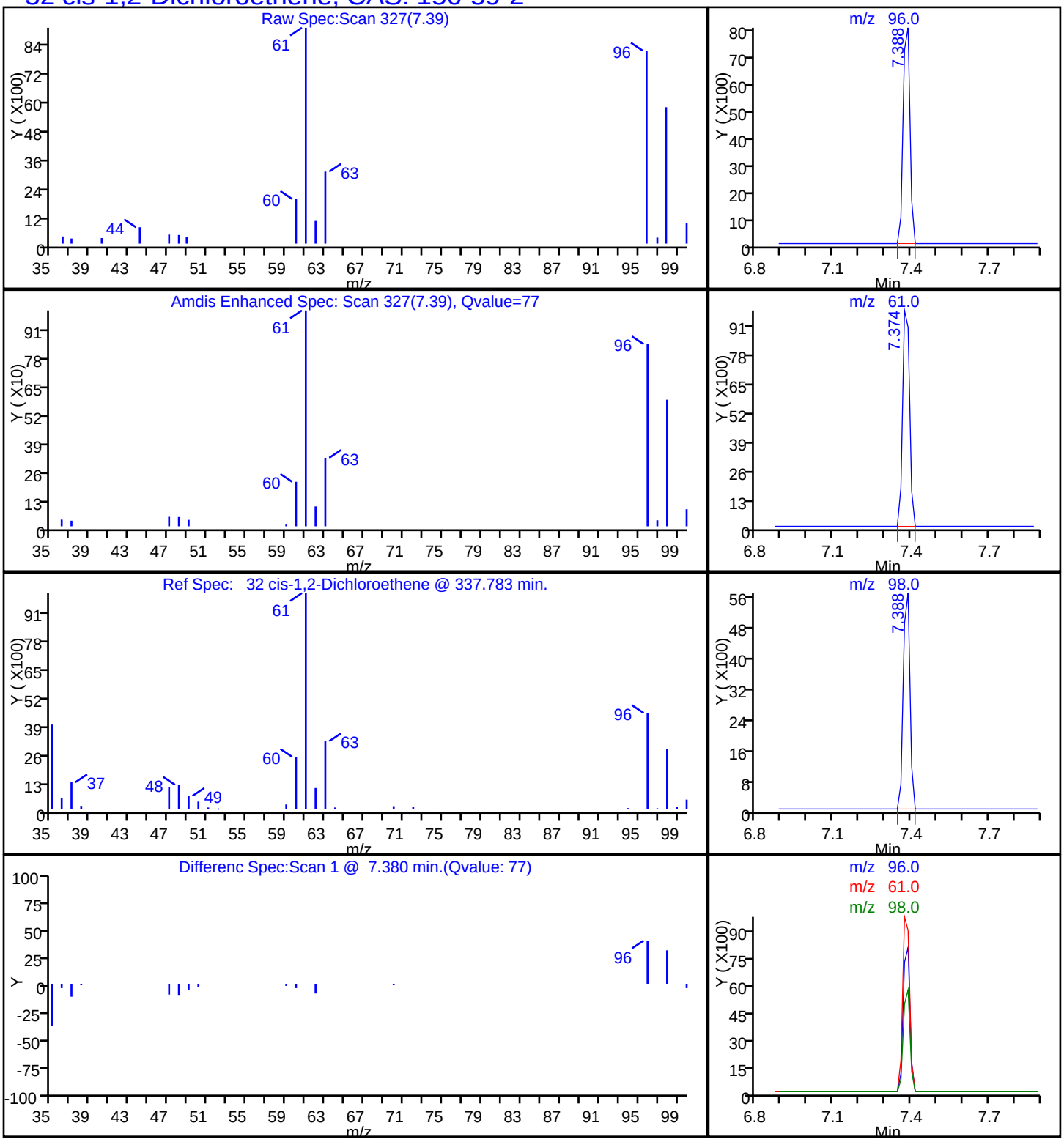
Report Date: 20-Apr-2017 18:12:08 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4340.D

Injection Date:	17-Apr-2017 20:31:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-1	Lab Sample ID:	160-95891-1		
Client ID:	6MW2004				
Operator ID:	JDH	ALS Bottle#:	9	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

32 cis-1,2-Dichloroethene, CAS: 156-59-2



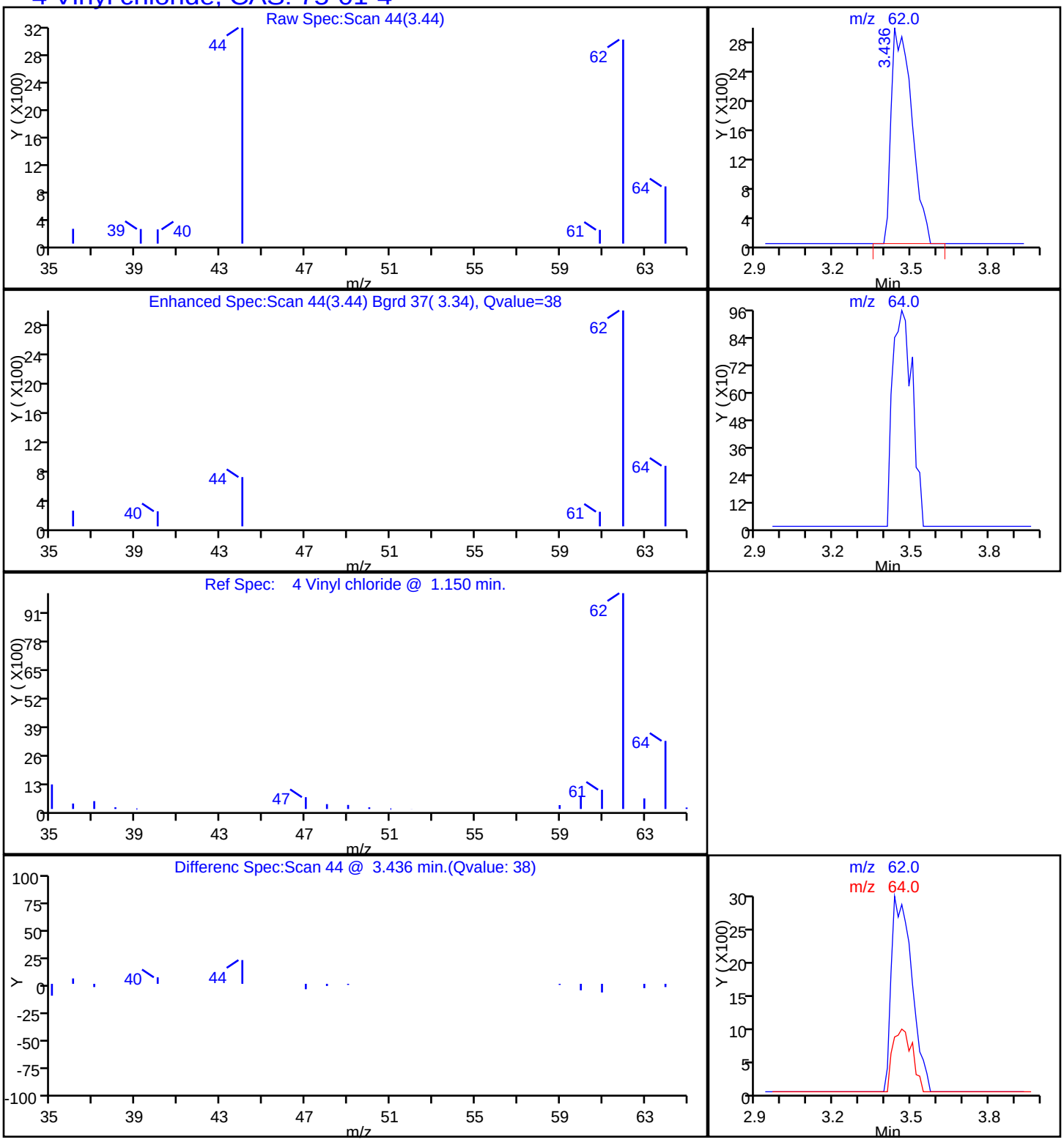
Report Date: 20-Apr-2017 18:12:07 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4340.D

Injection Date:	17-Apr-2017 20:31:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-1	Lab Sample ID:	160-95891-1		
Client ID:	6MW2004				
Operator ID:	JDH	ALS Bottle#:	9	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

4 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

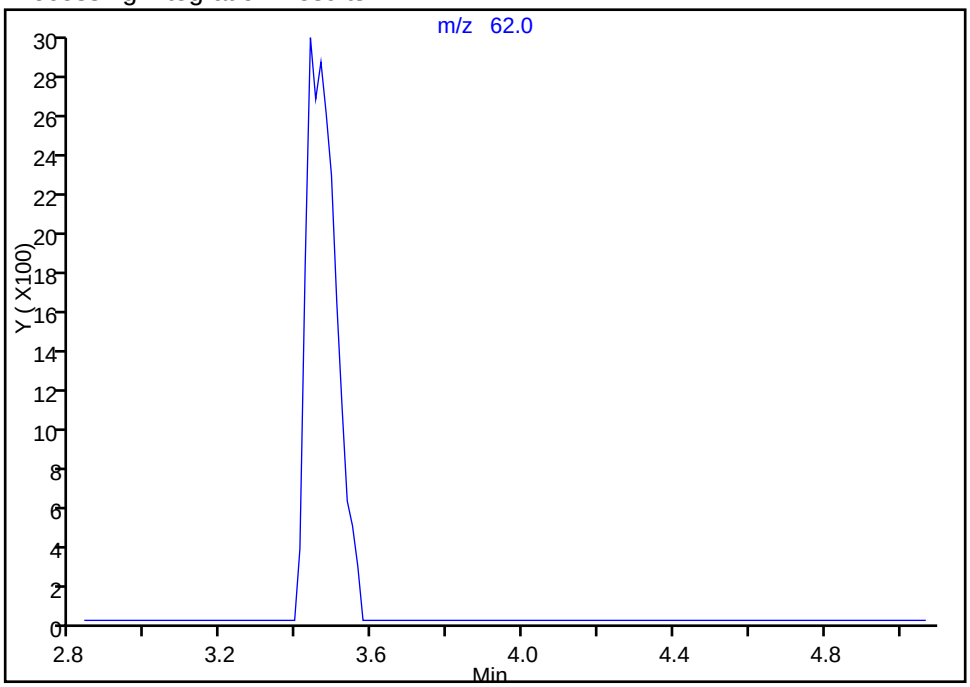
Data File:	\\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4340.D				
Injection Date:	17-Apr-2017 20:31:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-1	Lab Sample ID:	160-95891-1		
Client ID:	6MW2004				
Operator ID:	JDH	ALS Bottle#:	9	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

4 Vinyl chloride, CAS: 75-01-4

Signal: 1

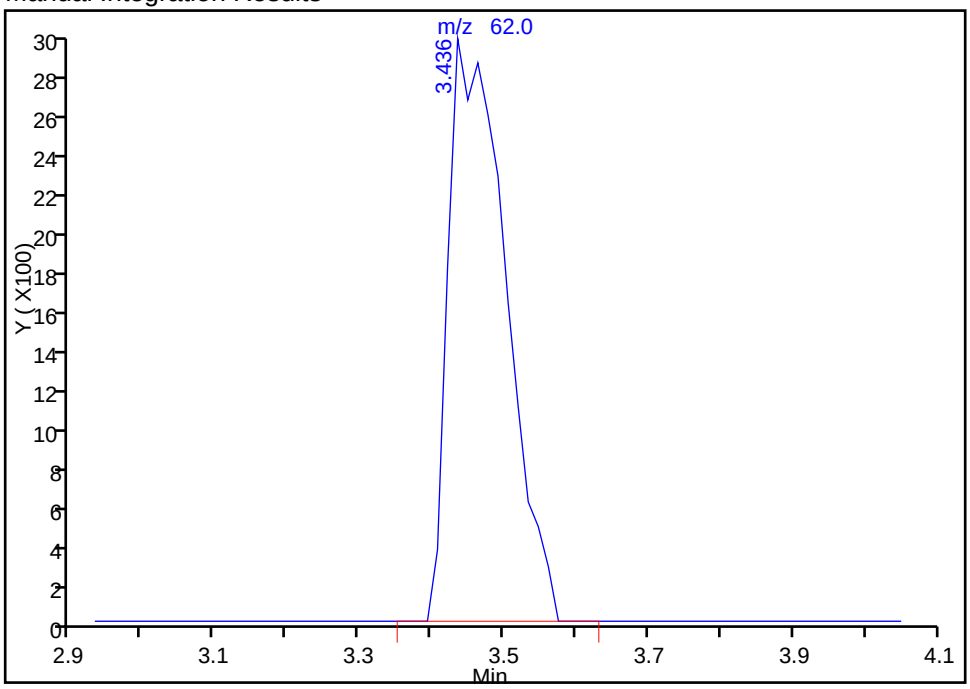
Not Detected
Expected RT: 3.46

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 16457
Amount: 1.653134
Amount Units: ug/l



Reviewer: hannj, 20-Apr-2017 18:11:33
Audit Action: Manually Integrated Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2004D | Lab Sample ID: 280-95891-2

Matrix: Water | Lab File ID: MSMP4345.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 08:20

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 22:37

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	8.3	J	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U Q	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U Q	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.7	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2004D | Lab Sample ID: 280-95891-2

Matrix: Water | Lab File ID: MSMP4345.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 08:20

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 22:37

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U Q	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.7	J M	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		81-118
460-00-4	4-Bromofluorobenzene (Surr)	107		85-114
1868-53-7	Dibromofluoromethane (Surr)	102		80-119
2037-26-5	Toluene-d8 (Surr)	102		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4345.D
Lims ID: 280-95891-A-2
Client ID: 6MW2004D
Sample Type: Client
Inject. Date: 17-Apr-2017 22:37:30 ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-016
Misc. Info.: 280-95891-A-2
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:06:31 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 18:07:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.031				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.198				ND	
3 Chloromethane	50		3.310				ND	
118 Butadiene	39		3.450				ND	
4 Vinyl chloride	62	3.478	3.464	0.014	95	16399	1.69	M
5 Bromomethane	94		3.952				ND	
6 Chloroethane	64		4.162				ND	
7 Trichlorofluoromethane	101		4.371				ND	
119 Dichlorofluoromethane	67		4.469				ND	
8 Ethyl ether	74		4.860				ND	
9 Ethanol	45		5.070				ND	
10 1,1-Dichloroethene	96		5.140				ND	
11 Carbon disulfide	76		5.167				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.195				ND	
13 Iodomethane	142		5.335				ND	
14 Acrolein	56		5.600				ND	
16 3-Chloro-1-propene	39		5.768				ND	
17 Isopropyl alcohol	45	5.810	5.810	0.000	94	2884	9.20	
S 15 1,2-Dichloroethene, Total	96				0		1.73	
18 Methylene Chloride	84		5.908				ND	
19 Acetone	43	5.977	5.978	-0.001	100	12880	8.30	
21 trans-1,2-Dichloroethene	96		6.103				ND	
20 Methyl acetate	74		6.117				ND	
22 Hexane	86		6.201				ND	
23 Methyl tert-butyl ether	73		6.229				ND	
24 2-Methyl-2-propanol	59		6.341				ND	
25 Acetonitrile	41		6.536				ND	
26 Isopropyl ether	45		6.662				ND	
27 2-Chloro-1,3-butadiene	53		6.788				ND	
28 1,1-Dichloroethane	63		6.816				ND	
29 Acrylonitrile	53		6.871				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.053				ND	
31 Vinyl acetate	43		7.067				ND	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	79	15231	1.73	
33 2,2-Dichloropropane	77		7.500				ND	
34 Chlorobromomethane	128		7.584				ND	
35 Cyclohexane	84		7.598				ND	
36 Chloroform	83		7.653				ND	
37 Ethyl acetate	45		7.765				ND	
38 Carbon tetrachloride	117		7.807				ND	
39 Tetrahydrofuran	71		7.821				ND	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	94	377535	51.2	
41 1,1,1-Trichloroethane	97		7.877				ND	
42 2-Butanone (MEK)	43		7.961				ND	
43 1,1-Dichloropropene	75		7.989				ND	
121 Isooctane	57		8.086				ND	
113 n-Heptane	43		8.170				ND	
45 Benzene	78		8.240				ND	
46 Propionitrile	54		8.268				ND	
47 Methacrylonitrile	41		8.282				ND	
48 Tert-amyl methyl ether	73		8.324				ND	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	347964	54.4	
44 Isobutyl alcohol	42		8.394				ND	
50 1,2-Dichloroethane	62		8.422				ND	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1476165	50.0	
53 Methylcyclohexane	55		8.785				ND	
52 Trichloroethene	95		8.785				ND	
122 1,4-Difluorobenzene	114		8.936				ND	
54 n-Butanol	56		9.036				ND	
55 Dibromomethane	93		9.190				ND	
120 Ethyl acrylate	55		9.246				ND	
56 1,2-Dichloropropane	63		9.274				ND	
57 Dichlorobromomethane	83		9.315				ND	
58 Methyl methacrylate	69		9.427				ND	
59 1,4-Dioxane	88		9.497				ND	
60 2-Chloroethyl vinyl ether	63		9.818				ND	
65 cis-1,3-Dichloropropene	75		9.888				ND	
$ 62 Toluene-d8 (Surr)	98	10.070	10.070	0.000	92	1537433	50.9	
63 Toluene	92		10.112				ND	
64 2-Nitropropane	43		10.321				ND	
71 4-Methyl-2-pentanone (MIBK	43		10.433				ND	
66 Tetrachloroethene	164		10.461				ND	
61 trans-1,3-Dichloropropene	75		10.475				ND	
67 Ethyl methacrylate	69		10.586				ND	
68 1,1,2-Trichloroethane	83		10.628				ND	
69 Chlorodibromomethane	129		10.796				ND	
70 1,3-Dichloropropane	76		10.880				ND	
72 Ethylene Dibromide	107		11.033				ND	
116 n-Butyl acetate	43		11.061				ND	
73 2-Hexanone	43		11.187				ND	
75 1-Chlorohexane	91		11.438				ND	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	84	1228013	50.0	
78 Chlorobenzene	112		11.508				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
77 Ethylbenzene	91		11.508				ND	
79 1,1,1,2-Tetrachloroethane	131		11.550				ND	
S 74 1,3-Dichloropropene, Total	75		11.620				ND	
80 m-Xylene & p-Xylene	106		11.634				ND	
81 o-Xylene	106		12.039				ND	
82 Styrene	104		12.081				ND	
84 Bromoform	173		12.123				ND	
85 Isopropylbenzene	105		12.318				ND	
83 Pentachloroethane	167		12.372				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.598	-0.001	94	501967	53.6	
87 N-Propylbenzene	91		12.695				ND	
88 Bromobenzene	156		12.723				ND	
89 1,1,2,2-Tetrachloroethane	83		12.751				ND	
90 1,3,5-Trimethylbenzene	105		12.877				ND	
91 2-Chlorotoluene	91		12.877				ND	
92 1,2,3-Trichloropropane	110		12.905				ND	
93 trans-1,4-Dichloro-2-buten	53		12.933				ND	
94 Cyclohexanone	55		12.975				ND	
95 4-Chlorotoluene	91		13.030				ND	
96 tert-Butylbenzene	119		13.184				ND	
97 1,2,4-Trimethylbenzene	105		13.254				ND	
98 sec-Butylbenzene	105		13.352				ND	
99 4-Isopropyltoluene	119		13.477				ND	
100 1,3-Dichlorobenzene	146		13.589				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	95	527241	50.0	
102 1,4-Dichlorobenzene	146		13.673				ND	
117 1,2,3-Trimethylbenzene	105		13.673				ND	
103 n-Butylbenzene	134		13.896				ND	
114 Benzyl chloride	126		13.910				ND	
104 1,2-Dichlorobenzene	146		14.092				ND	
105 n-Nonyl Aldehyde	57	14.832	14.846	-0.014	56	1616	1.94	
106 1,2-Dibromo-3-Chloropropan	157		14.874				ND	
107 1,3,5-Trichlorobenzene	180		14.902				ND	
108 Hexachlorobutadiene	225		15.489				ND	
109 1,2,4-Trichlorobenzene	180		15.544				ND	
110 Naphthalene	128		15.880				ND	
111 1,2,3-Trichlorobenzene	180		16.061				ND	
S 112 Xylenes, Total	106		16.500				ND	
S 115 Trihalomethanes, Total	1		0.000				ND	
127 2-Methylpentane	1		0.000				ND	
126 C6-C12	1		0.000				ND	
128 2-Pentanone	1		0.000				ND	
$ 123 BFB	95		4.382				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

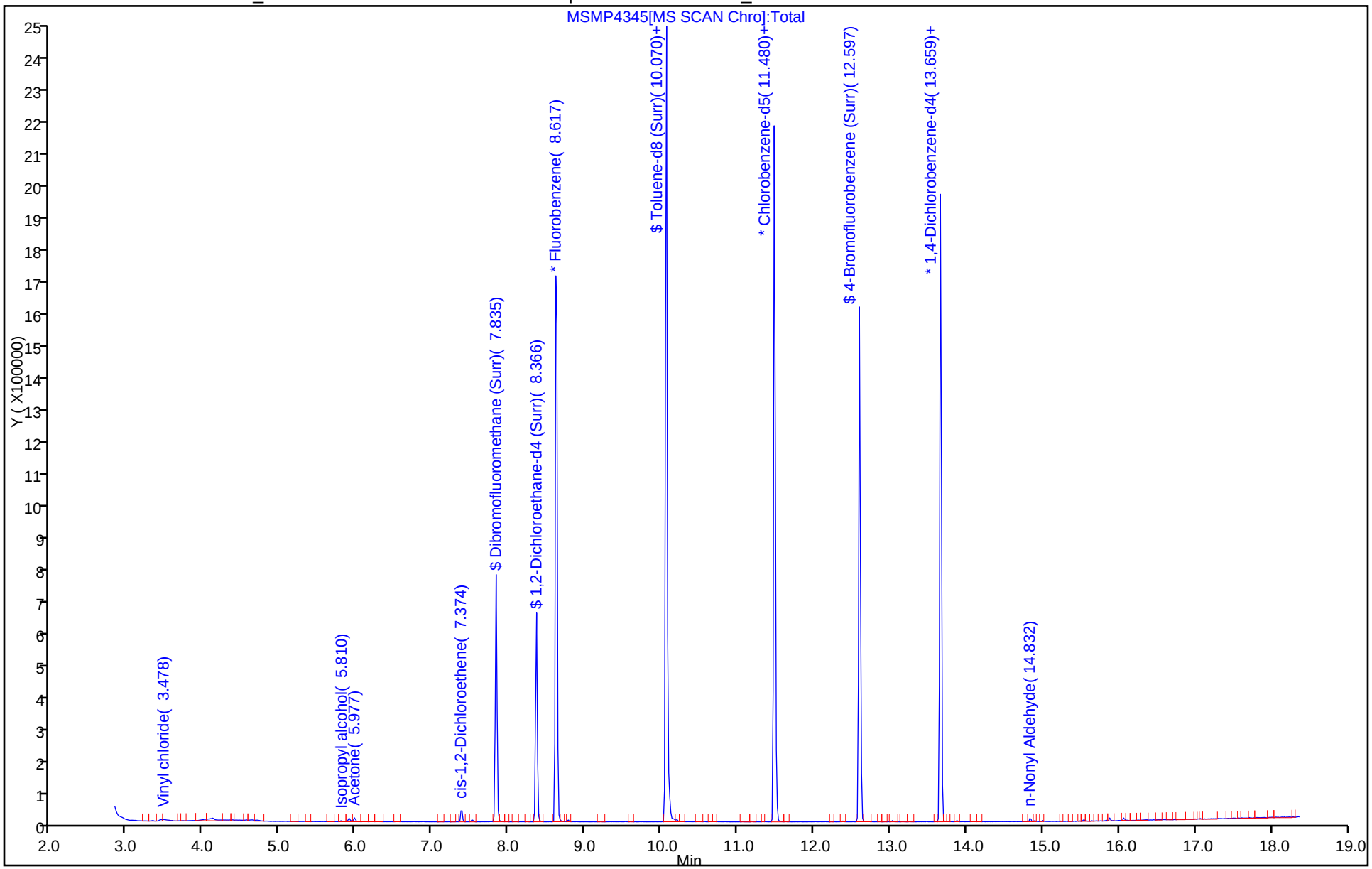
I.S. Working_00146	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 18:07:36 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4345.D

Injection Date:	17-Apr-2017 22:37:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	280-95891-A-2	Lab Sample ID:	160-95891-2	Worklist Smp#:	16
Client ID:	6MW2004D				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4345.D
Lims ID: 280-95891-A-2
Client ID: 6MW2004D
Sample Type: Client
Inject. Date: 17-Apr-2017 22:37:30 ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-016
Misc. Info.: 280-95891-A-2
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:06:31 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 18:07:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 40 Dibromofluoromethane (Surr)	50.0	51.2	102.45
$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	54.4	108.83
$ 62 Toluene-d8 (Surr)	50.0	50.9	101.83
$ 86 4-Bromofluorobenzene (Surr)	50.0	53.6	107.14

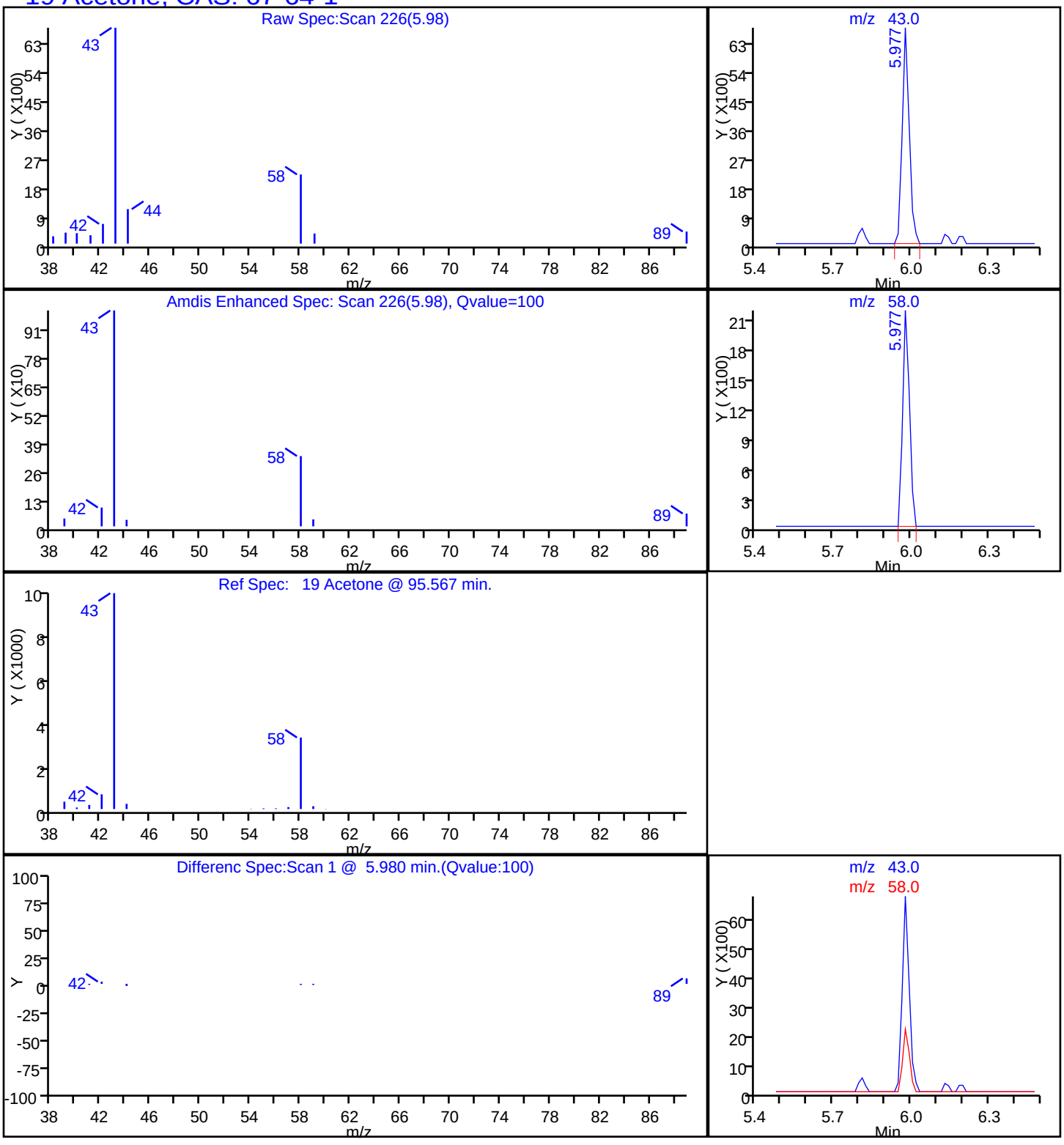
Report Date: 20-Apr-2017 18:07:36 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4345.D

Injection Date:	17-Apr-2017 22:37:30	Instrument ID:	VMSM		
Lims ID:	280-95891-A-2	Lab Sample ID:	160-95891-2		
Client ID:	6MW2004D				
Operator ID:	JDH	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

19 Acetone, CAS: 67-64-1



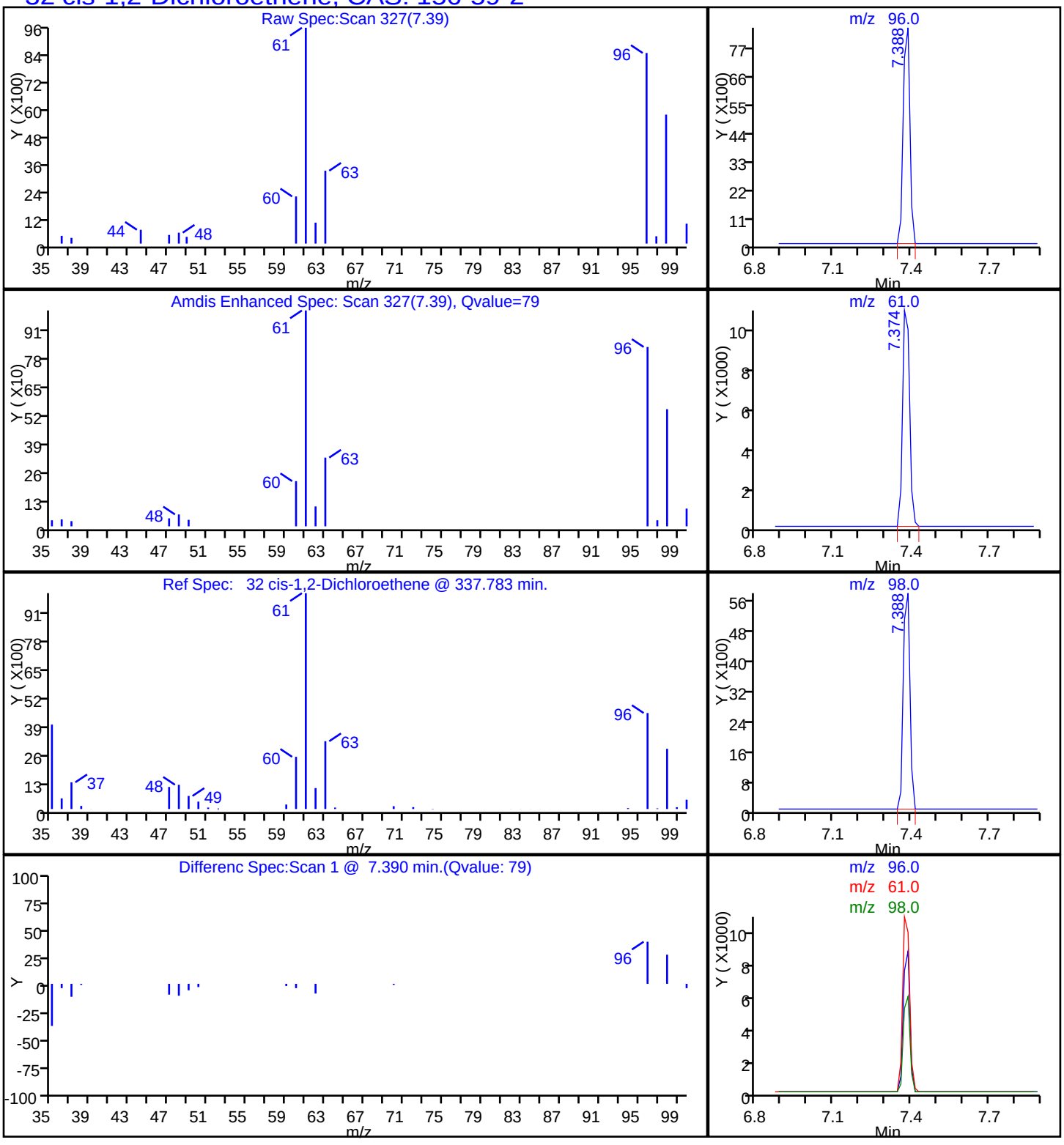
Report Date: 20-Apr-2017 18:07:36 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4345.D

Injection Date:	17-Apr-2017 22:37:30	Instrument ID:	VMSM		
Lims ID:	280-95891-A-2	Lab Sample ID:	160-95891-2		
Client ID:	6MW2004D				
Operator ID:	JDH	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

32 cis-1,2-Dichloroethene, CAS: 156-59-2



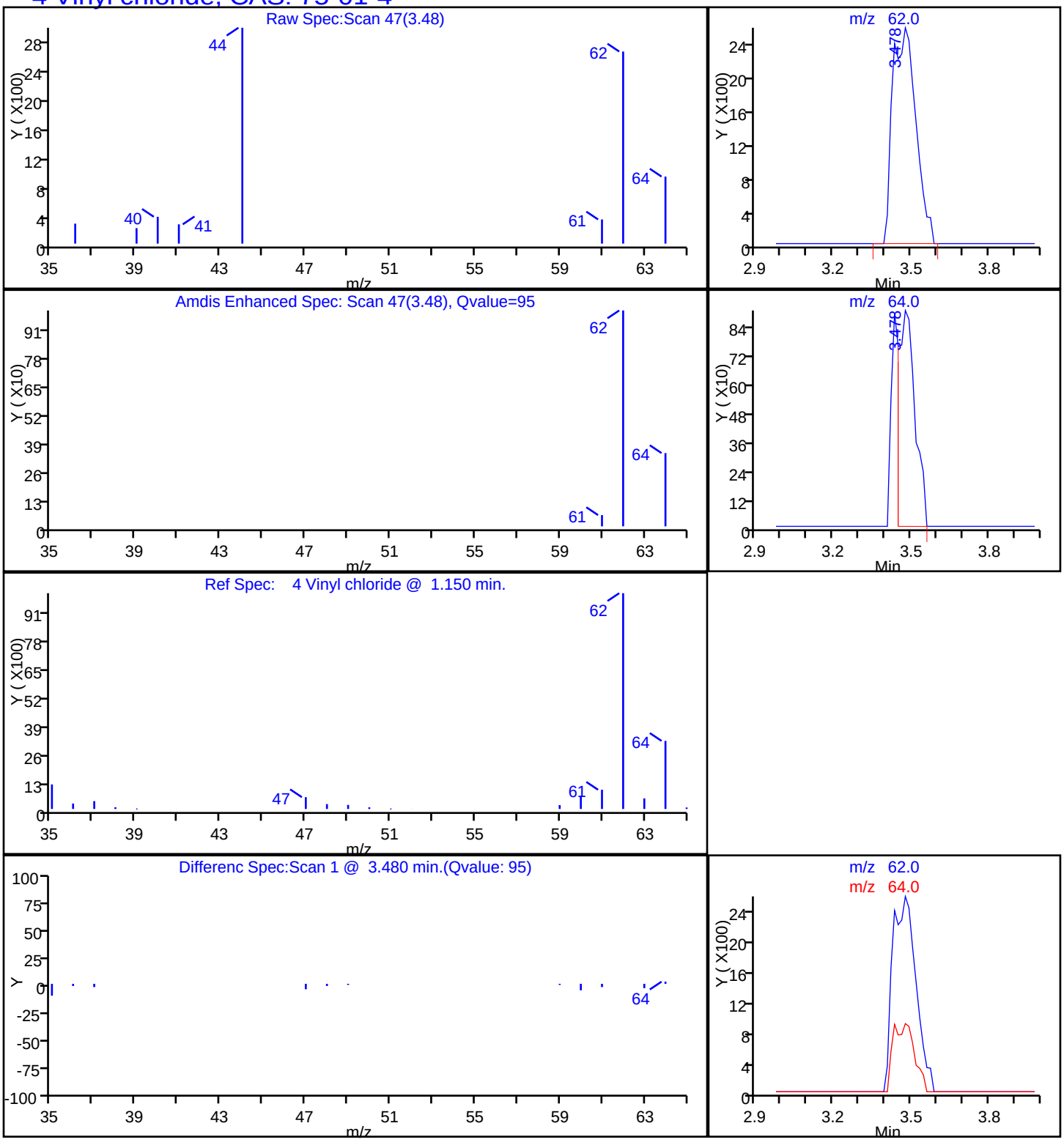
Report Date: 20-Apr-2017 18:07:36 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4345.D

Injection Date:	17-Apr-2017 22:37:30	Instrument ID:	VMSM		
Lims ID:	280-95891-A-2	Lab Sample ID:	160-95891-2		
Client ID:	6MW2004D				
Operator ID:	JDH	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

4 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4345.D

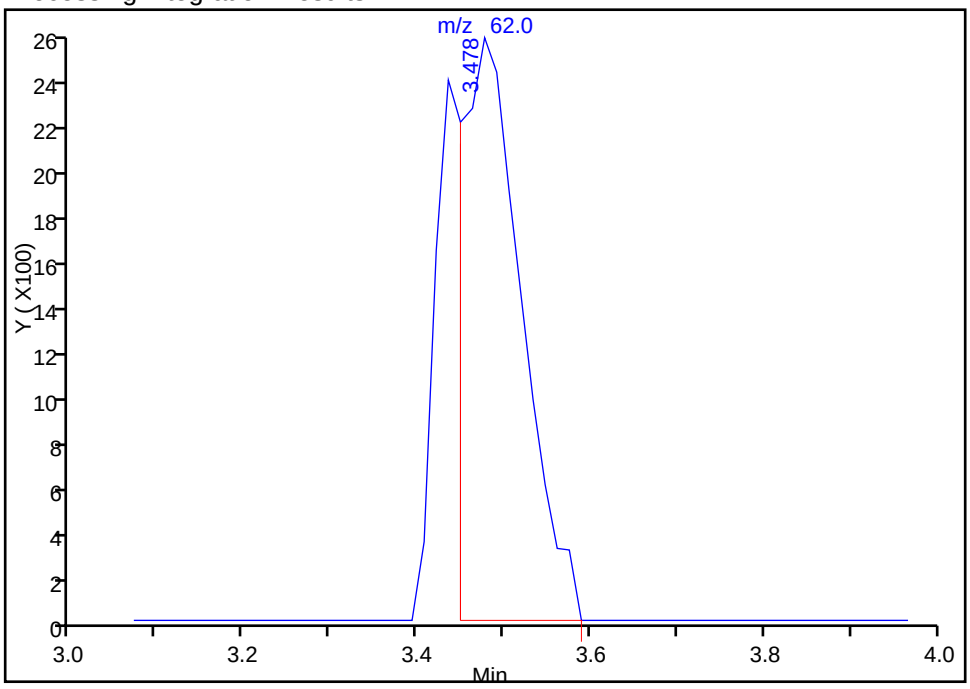
Injection Date:	17-Apr-2017 22:37:30	Instrument ID:	VMSM		
Lims ID:	280-95891-A-2	Lab Sample ID:	160-95891-2		
Client ID:	6MW2004D				
Operator ID:	JDH	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

4 Vinyl chloride, CAS: 75-01-4

Signal: 1

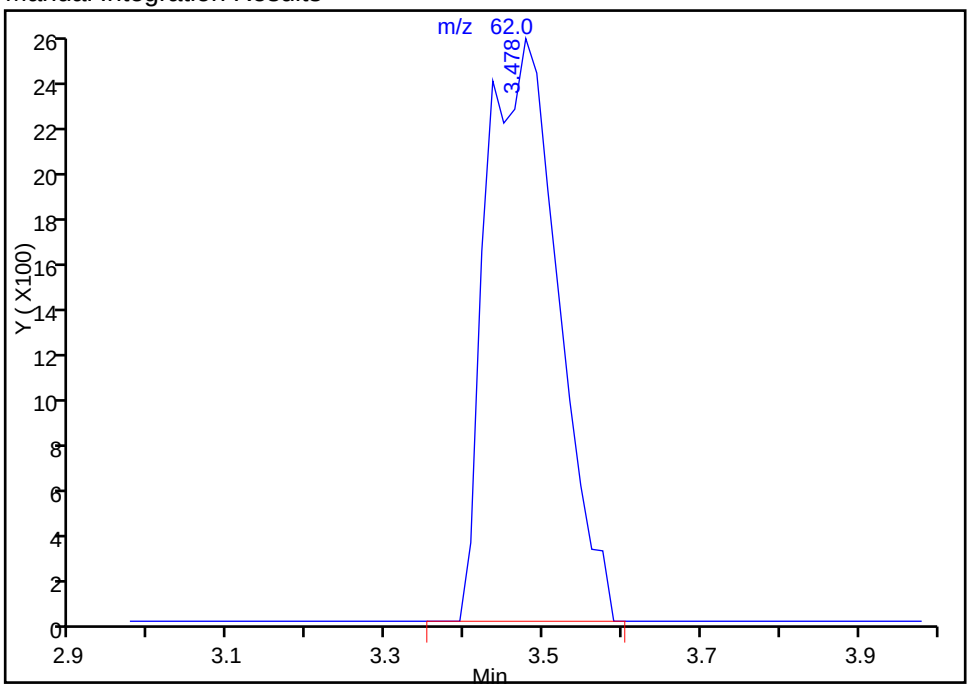
Processing Integration Results

RT: 3.48
Area: 12702
Amount: 1.307121
Amount Units: ug/l



Manual Integration Results

RT: 3.48
Area: 16399
Amount: 1.687567
Amount Units: ug/l



Reviewer: hannj, 20-Apr-2017 17:43:28

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2204 | Lab Sample ID: 280-95891-3

Matrix: Water | Lab File ID: MSMP4346.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 09:40

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 23:03

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	1.9	J	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	31		20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U Q	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U Q	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	2.5	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2204 | Lab Sample ID: 280-95891-3

Matrix: Water | Lab File ID: MSMP4346.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 09:40

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 23:03

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U Q	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	4.8	J	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.22	J	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.9	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	2.3	J M	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		81-118
460-00-4	4-Bromofluorobenzene (Surr)	105		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	101		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4346.D
Lims ID: 280-95891-B-3
Client ID: 6MW2204
Sample Type: Client
Inject. Date: 17-Apr-2017 23:03:30 ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-017
Misc. Info.: 280-95891-B-3
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:06:31 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 18:07:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.031				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.198				ND	
3 Chloromethane	50		3.310				ND	
118 Butadiene	39		3.450				ND	
4 Vinyl chloride	62	3.435	3.464	-0.029	63	22971	2.29	M
5 Bromomethane	94		3.952				ND	
6 Chloroethane	64		4.162				ND	
7 Trichlorofluoromethane	101		4.371				ND	
119 Dichlorofluoromethane	67		4.469				ND	
8 Ethyl ether	74		4.860				ND	
9 Ethanol	45		5.070				ND	
10 1,1-Dichloroethene	96		5.140				ND	
11 Carbon disulfide	76		5.167				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.195				ND	
13 Iodomethane	142		5.335				ND	
14 Acrolein	56		5.600				ND	
16 3-Chloro-1-propene	39		5.768				ND	
17 Isopropyl alcohol	45	5.796	5.810	-0.014	96	28291	87.3	
S 15 1,2-Dichloroethene, Total	96				0		2.75	
18 Methylene Chloride	84		5.908				ND	
19 Acetone	43	5.977	5.978	-0.001	100	49522	30.9	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	94	1896	0.2158	
20 Methyl acetate	74		6.117				ND	
22 Hexane	86		6.201				ND	
23 Methyl tert-butyl ether	73		6.229				ND	
24 2-Methyl-2-propanol	59		6.341				ND	
25 Acetonitrile	41		6.536				ND	
26 Isopropyl ether	45		6.662				ND	
27 2-Chloro-1,3-butadiene	53		6.788				ND	
28 1,1-Dichloroethane	63		6.816				ND	
29 Acrylonitrile	53		6.871				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.053				ND	
31 Vinyl acetate	43		7.067				ND	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	78	23014	2.53	
33 2,2-Dichloropropane	77		7.500				ND	
34 Chlorobromomethane	128		7.584				ND	
35 Cyclohexane	84		7.598				ND	
36 Chloroform	83		7.653				ND	
37 Ethyl acetate	45		7.765				ND	
38 Carbon tetrachloride	117		7.807				ND	
39 Tetrahydrofuran	71		7.821				ND	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	94	385355	50.6	
41 1,1,1-Trichloroethane	97		7.877				ND	
42 2-Butanone (MEK)	43	7.961	7.961	0.000	96	4376	1.92	
43 1,1-Dichloropropene	75		7.989				ND	
121 Isooctane	57		8.086				ND	
113 n-Heptane	43		8.170				ND	
45 Benzene	78		8.240				ND	
46 Propionitrile	54		8.268				ND	
47 Methacrylonitrile	41		8.282				ND	
48 Tert-amyl methyl ether	73		8.324				ND	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	346086	52.4	
44 Isobutyl alcohol	42		8.394				ND	
50 1,2-Dichloroethane	62		8.422				ND	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1525556	50.0	
53 Methylcyclohexane	55		8.785				ND	
52 Trichloroethene	95	8.785	8.785	0.000	91	16977	1.94	
122 1,4-Difluorobenzene	114		8.936				ND	
54 n-Butanol	56		9.036				ND	
55 Dibromomethane	93		9.190				ND	
120 Ethyl acrylate	55		9.246				ND	
56 1,2-Dichloropropane	63		9.274				ND	
57 Dichlorobromomethane	83		9.315				ND	
58 Methyl methacrylate	69		9.427				ND	
59 1,4-Dioxane	88		9.497				ND	
60 2-Chloroethyl vinyl ether	63		9.818				ND	
65 cis-1,3-Dichloropropene	75		9.888				ND	
$ 62 Toluene-d8 (Surr)	98	10.069	10.070	-0.001	92	1547658	50.6	
63 Toluene	92		10.112				ND	
64 2-Nitropropane	43		10.321				ND	
71 4-Methyl-2-pentanone (MIBK	43		10.433				ND	
66 Tetrachloroethene	164	10.460	10.461	-0.001	94	42057	4.76	
61 trans-1,3-Dichloropropene	75		10.475				ND	
67 Ethyl methacrylate	69		10.586				ND	
68 1,1,2-Trichloroethane	83		10.628				ND	
69 Chlorodibromomethane	129		10.796				ND	
70 1,3-Dichloropropane	76		10.880				ND	
72 Ethylene Dibromide	107		11.033				ND	
116 n-Butyl acetate	43		11.061				ND	
73 2-Hexanone	43		11.187				ND	
75 1-Chlorohexane	91		11.438				ND	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	83	1244500	50.0	
78 Chlorobenzene	112		11.508				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
77 Ethylbenzene	91		11.508				ND	
79 1,1,1,2-Tetrachloroethane	131		11.550				ND	
S 74 1,3-Dichloropropene, Total	75		11.620				ND	
80 m-Xylene & p-Xylene	106		11.634				ND	
81 o-Xylene	106		12.039				ND	
82 Styrene	104		12.081				ND	
84 Bromoform	173		12.123				ND	
85 Isopropylbenzene	105		12.318				ND	
83 Pentachloroethane	167		12.372				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.598	-0.001	94	491776		52.3
87 N-Propylbenzene	91		12.695				ND	
88 Bromobenzene	156		12.723				ND	
89 1,1,2,2-Tetrachloroethane	83		12.751				ND	
90 1,3,5-Trimethylbenzene	105		12.877				ND	
91 2-Chlorotoluene	91		12.877				ND	
92 1,2,3-Trichloropropane	110		12.905				ND	
93 trans-1,4-Dichloro-2-buten	53		12.933				ND	
94 Cyclohexanone	55		12.975				ND	
95 4-Chlorotoluene	91		13.030				ND	
96 tert-Butylbenzene	119		13.184				ND	
97 1,2,4-Trimethylbenzene	105		13.254				ND	
98 sec-Butylbenzene	105		13.352				ND	
99 4-Isopropyltoluene	119		13.477				ND	
100 1,3-Dichlorobenzene	146		13.589				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	94	529252		50.0
102 1,4-Dichlorobenzene	146		13.673				ND	
117 1,2,3-Trimethylbenzene	105		13.673				ND	
103 n-Butylbenzene	134		13.896				ND	
114 Benzyl chloride	126		13.910				ND	
104 1,2-Dichlorobenzene	146		14.092				ND	
105 n-Nonyl Aldehyde	57	14.832	14.846	-0.014	51	1374		1.80
106 1,2-Dibromo-3-Chloropropan	157		14.874				ND	
107 1,3,5-Trichlorobenzene	180		14.902				ND	
108 Hexachlorobutadiene	225		15.489				ND	
109 1,2,4-Trichlorobenzene	180		15.544				ND	
110 Naphthalene	128		15.880				ND	
111 1,2,3-Trichlorobenzene	180		16.061				ND	
S 112 Xylenes, Total	106		16.500				ND	
S 115 Trihalomethanes, Total	1		0.000				ND	
127 2-Methylpentane	1		0.000				ND	
126 C6-C12	1		0.000				ND	
128 2-Pentanone	1		0.000				ND	
$ 123 BFB	95		4.382				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

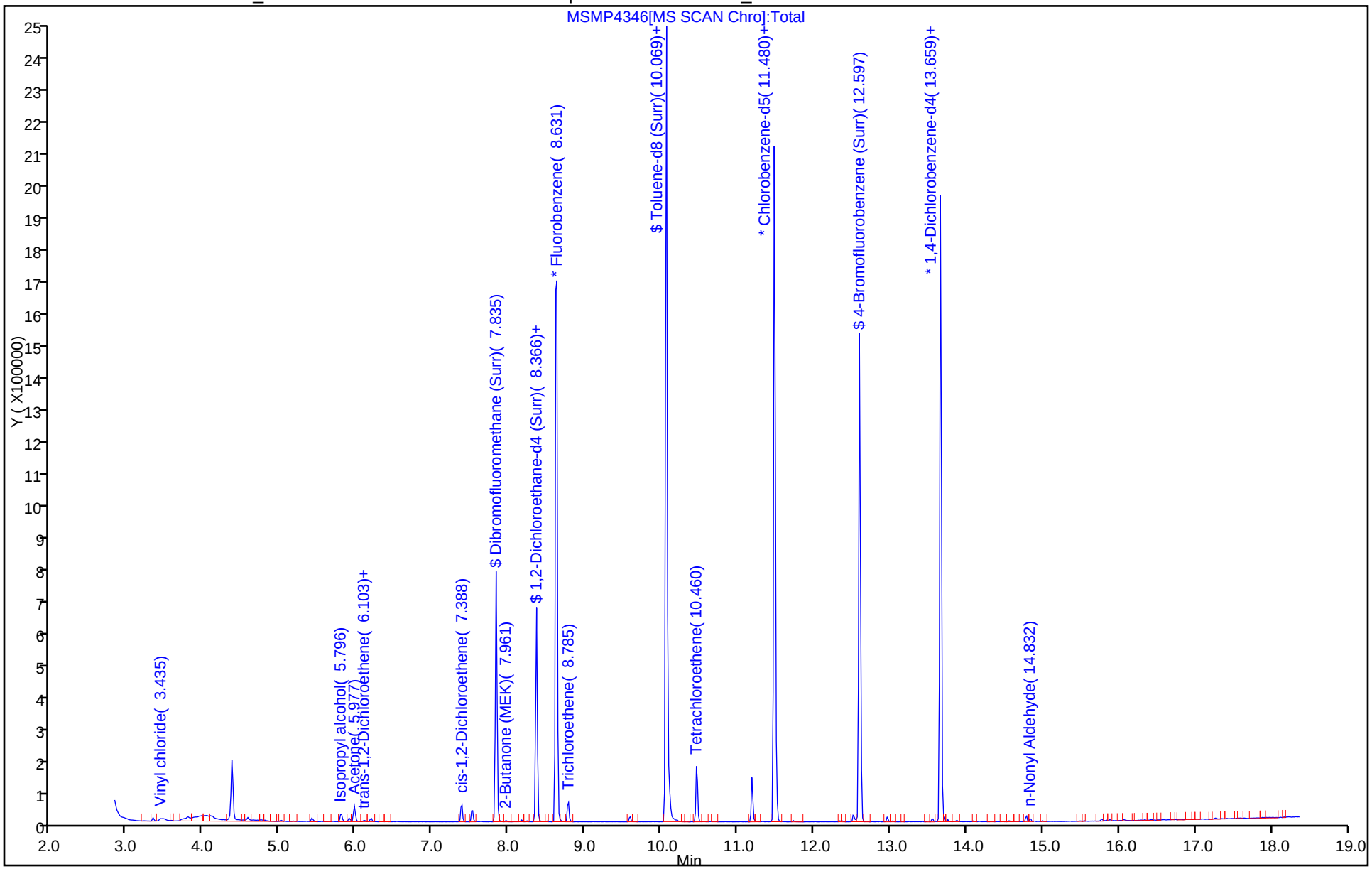
I.S. Working_00146	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 18:07:44 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4346.D

Injection Date:	17-Apr-2017 23:03:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	280-95891-B-3	Lab Sample ID:	160-95891-3	Worklist Smp#:	17
Client ID:	6MW2204				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4346.D
Lims ID: 280-95891-B-3
Client ID: 6MW2204
Sample Type: Client
Inject. Date: 17-Apr-2017 23:03:30 ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-017
Misc. Info.: 280-95891-B-3
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:06:31 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 18:07:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 40 Dibromofluoromethane (Surr)	50.0	50.6	101.18
$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	52.4	104.74
$ 62 Toluene-d8 (Surr)	50.0	50.6	101.15
$ 86 4-Bromofluorobenzene (Surr)	50.0	52.3	104.57

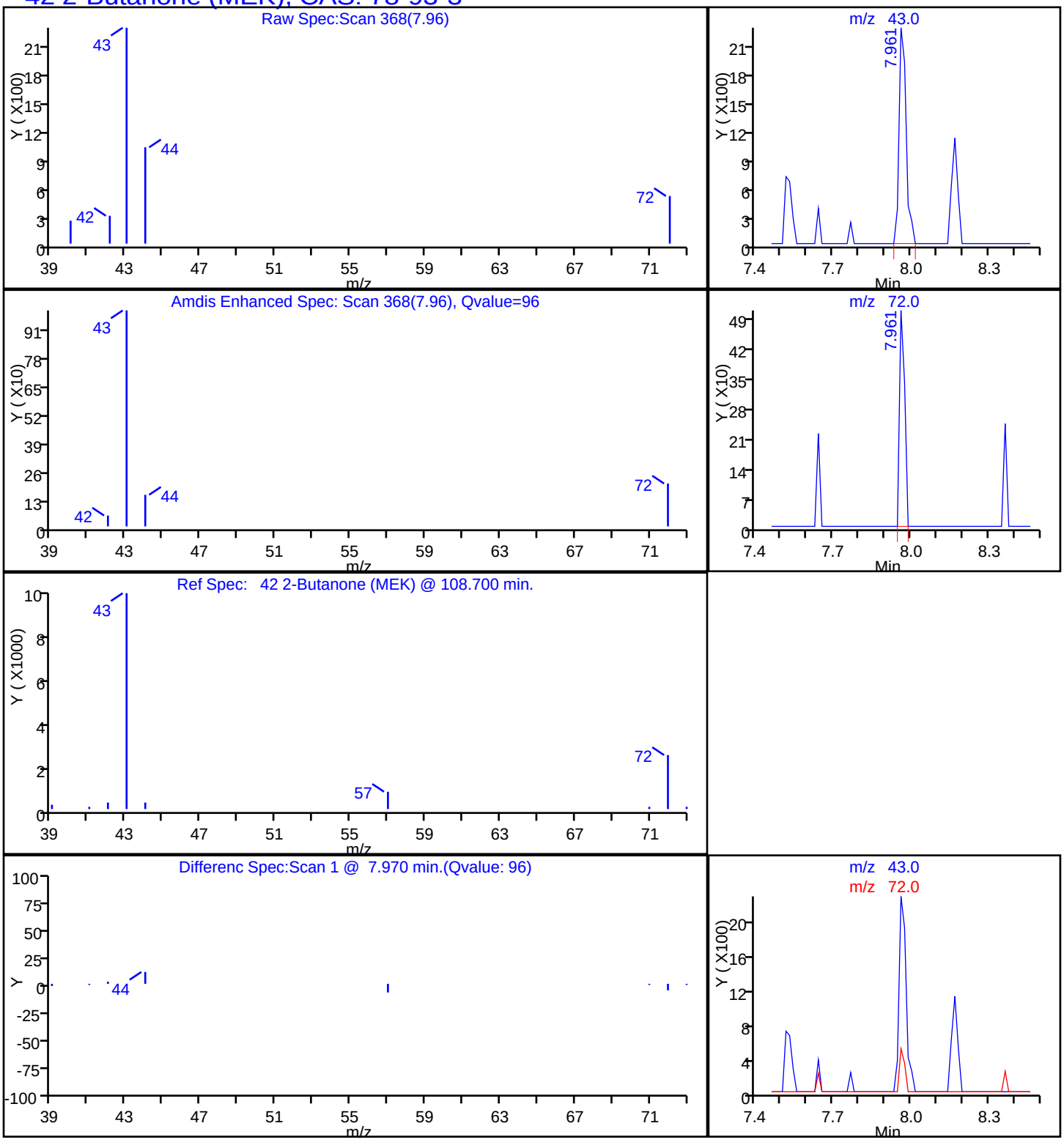
Report Date: 20-Apr-2017 18:07:45 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4346.D

Injection Date:	17-Apr-2017 23:03:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-3	Lab Sample ID:	160-95891-3		
Client ID:	6MW2204				
Operator ID:	JDH	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

42 2-Butanone (MEK), CAS: 78-93-3



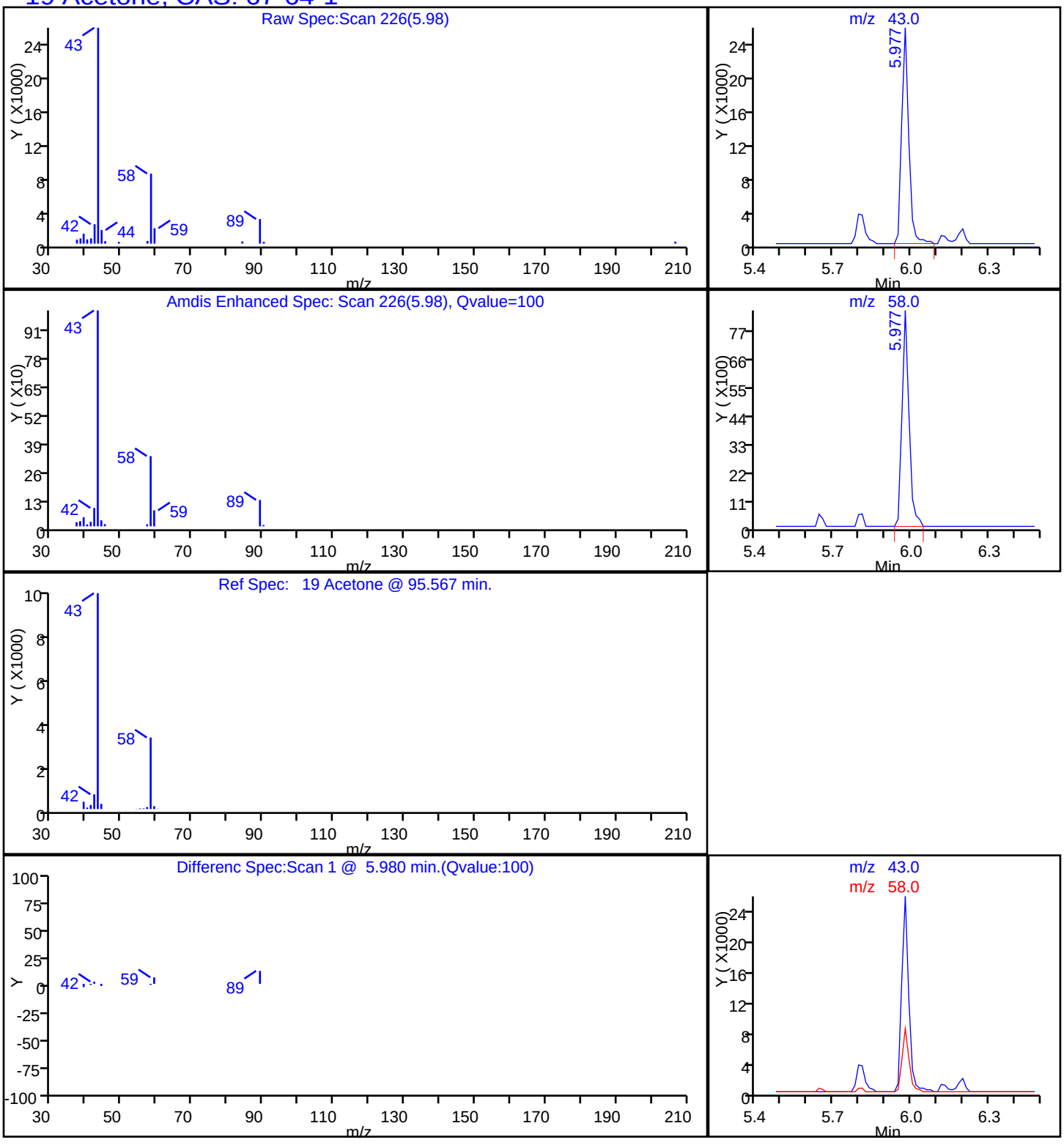
Report Date: 20-Apr-2017 18:07:45 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4346.D

Injection Date:	17-Apr-2017 23:03:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-3	Lab Sample ID:	160-95891-3		
Client ID:	6MW2204				
Operator ID:	JDH	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

19 Acetone, CAS: 67-64-1



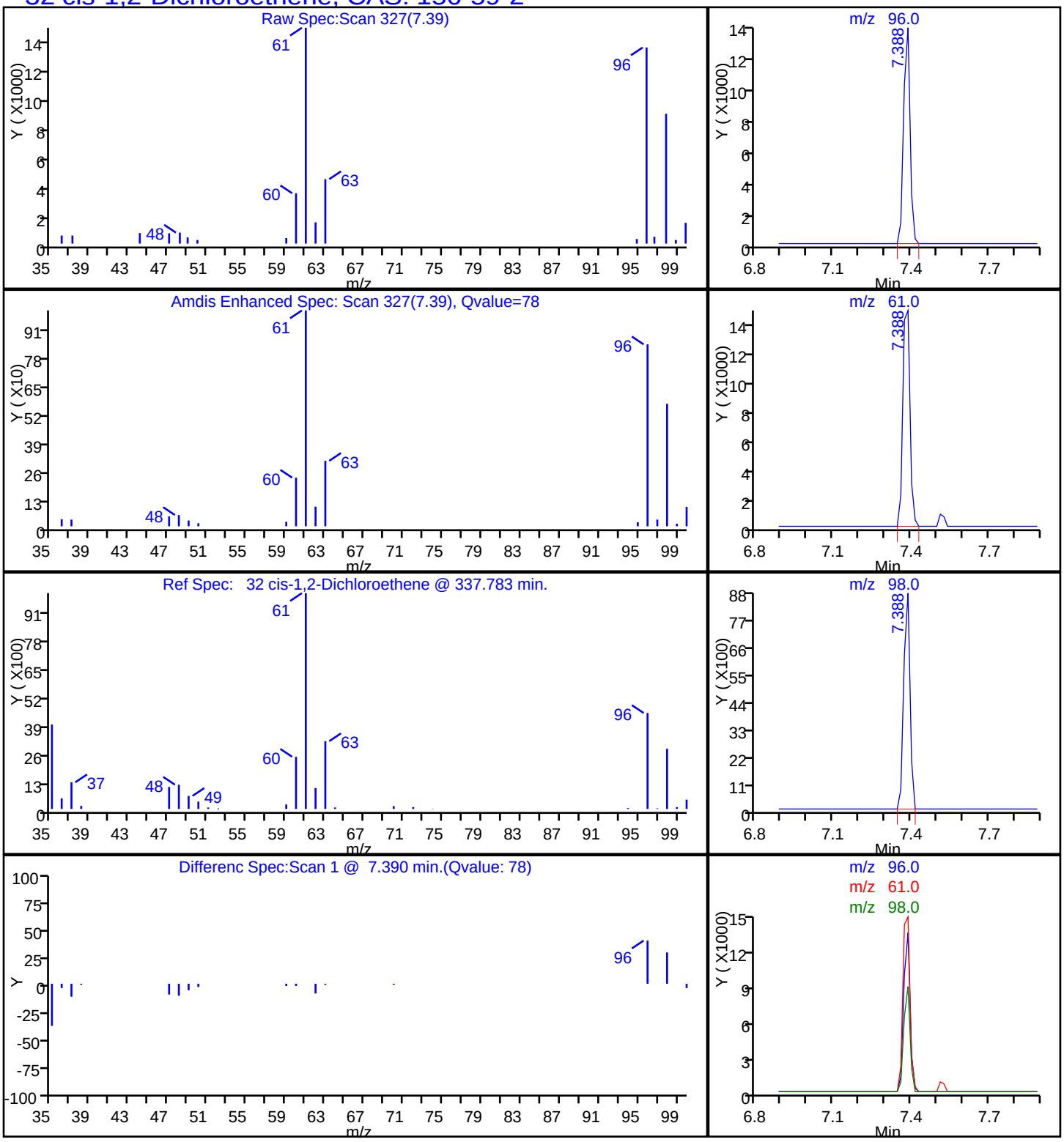
Report Date: 20-Apr-2017 18:07:45 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4346.D

Injection Date:	17-Apr-2017 23:03:30	Instrument ID:	VMSM
Lims ID:	280-95891-B-3	Lab Sample ID:	160-95891-3
Client ID:	6MW2204		
Operator ID:	JDH	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD
Column:		Detector	MS SCAN

32 cis-1,2-Dichloroethene, CAS: 156-59-2



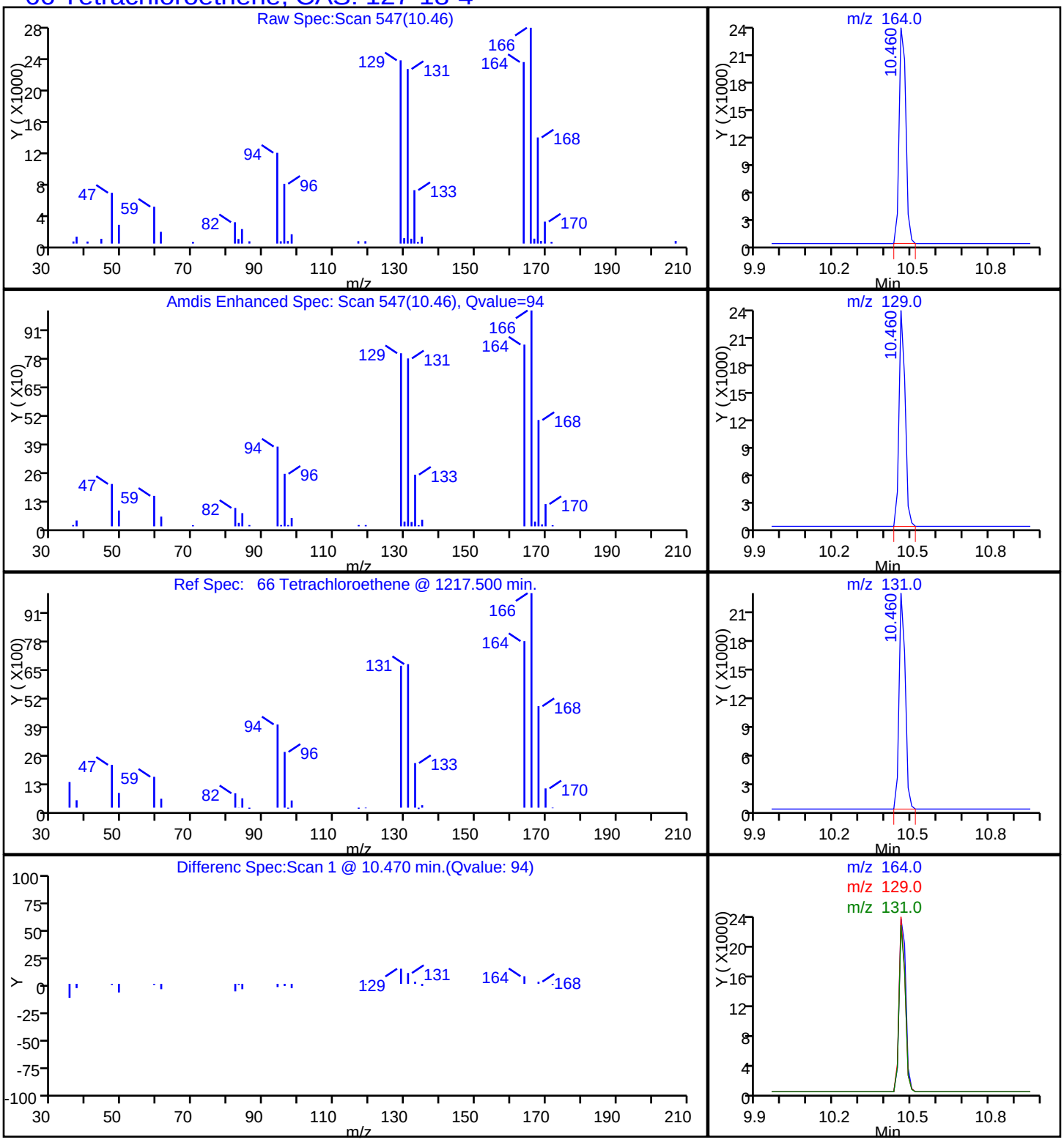
Report Date: 20-Apr-2017 18:07:45 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4346.D

Injection Date:	17-Apr-2017 23:03:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-3	Lab Sample ID:	160-95891-3		
Client ID:	6MW2204				
Operator ID:	JDH	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

66 Tetrachloroethene, CAS: 127-18-4



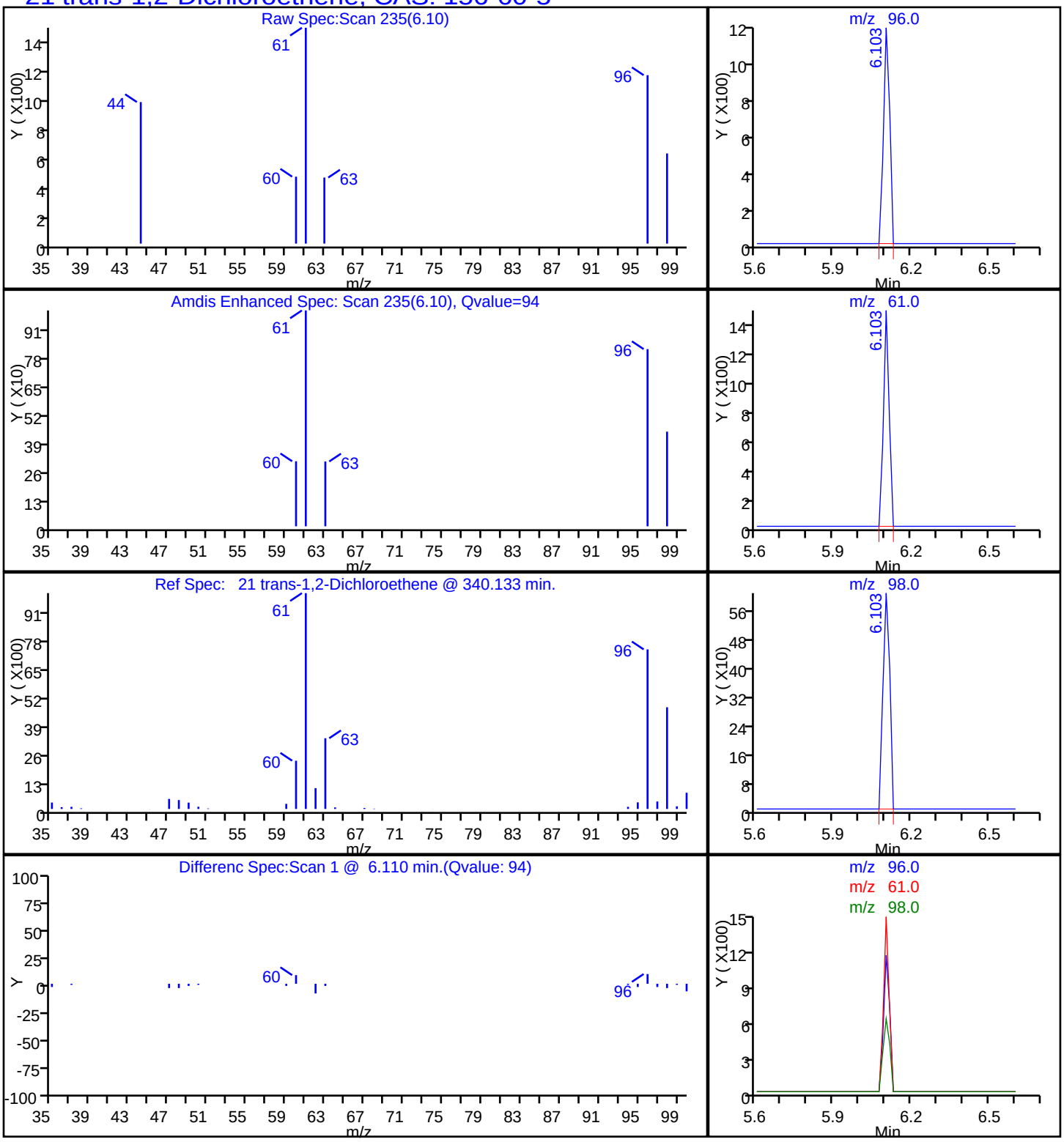
Report Date: 20-Apr-2017 18:07:45 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4346.D

Injection Date:	17-Apr-2017 23:03:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-3	Lab Sample ID:	160-95891-3		
Client ID:	6MW2204				
Operator ID:	JDH	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

21 trans-1,2-Dichloroethene, CAS: 156-60-5



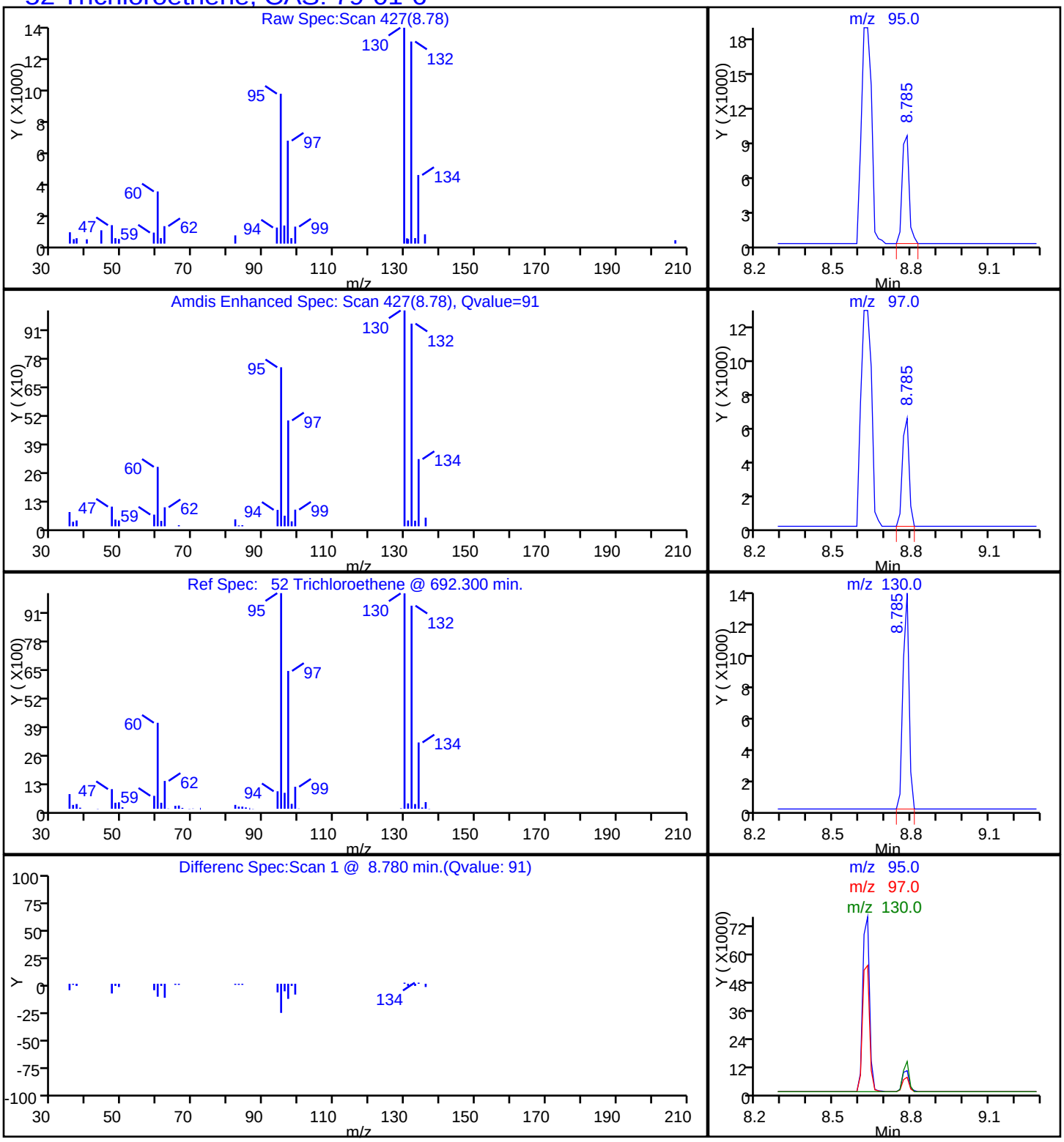
Report Date: 20-Apr-2017 18:07:45 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4346.D

Injection Date:	17-Apr-2017 23:03:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-3	Lab Sample ID:	160-95891-3		
Client ID:	6MW2204				
Operator ID:	JDH	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

52 Trichloroethene, CAS: 79-01-6



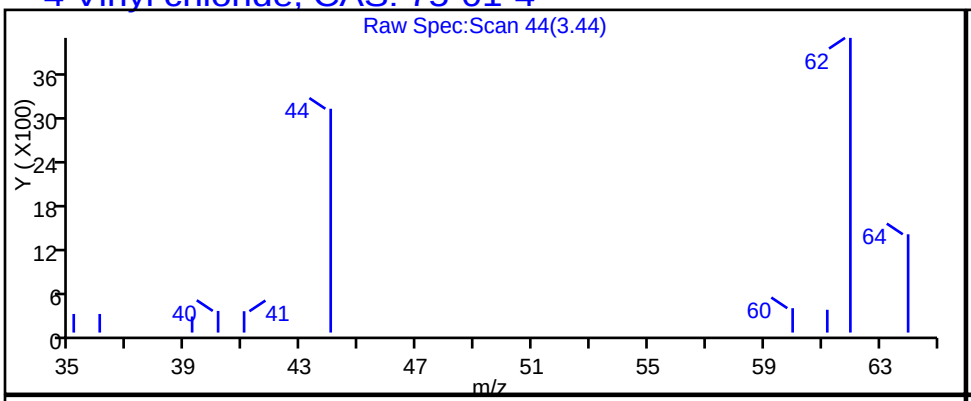
Report Date: 20-Apr-2017 18:07:44 Chrom Revision: 2.2 18-Apr-2017 07:43:58

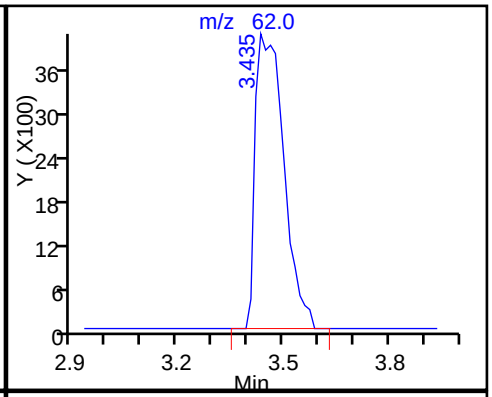
TestAmerica St. Louis

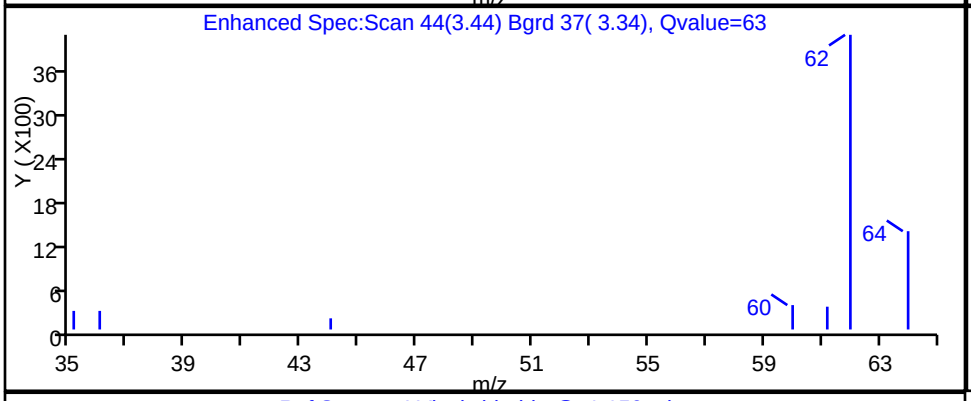
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4346.D

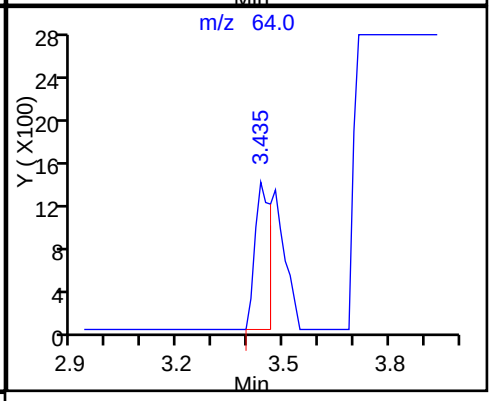
Injection Date:	17-Apr-2017 23:03:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-3	Lab Sample ID:	160-95891-3		
Client ID:	6MW2204				
Operator ID:	JDH	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

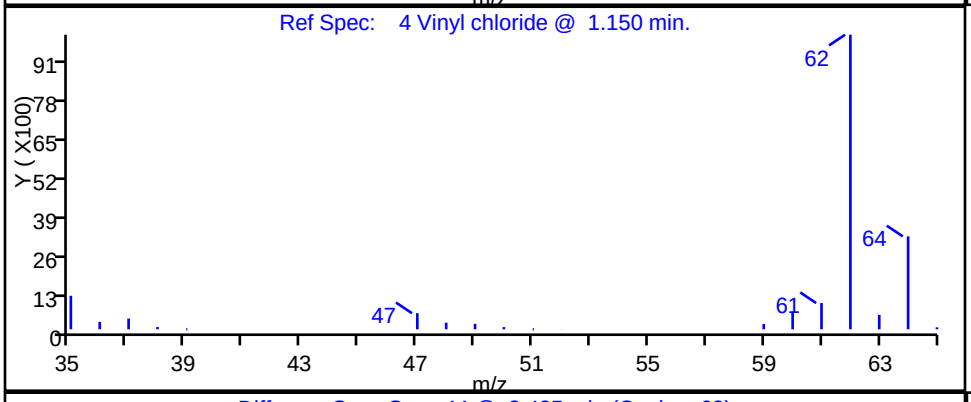
4 Vinyl chloride, CAS: 75-01-4

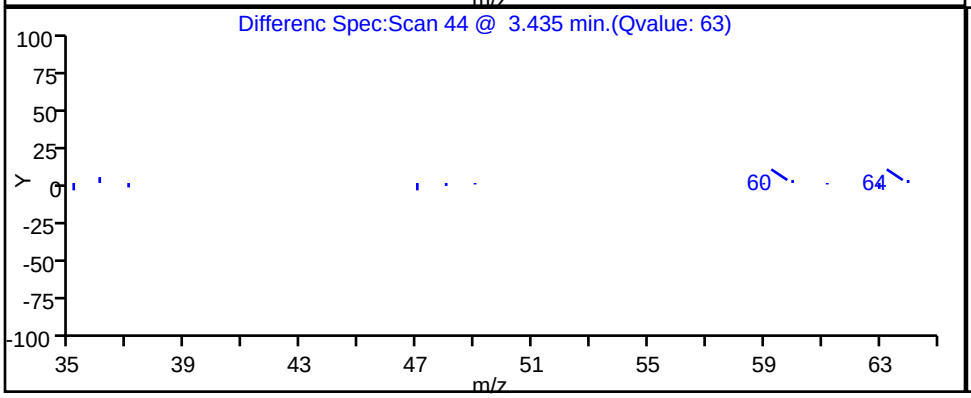


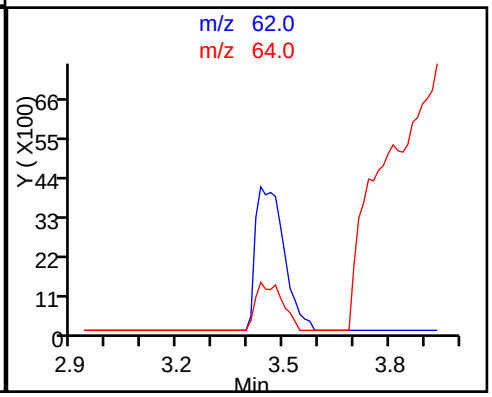












Manual Integration/User Assign Peak Report

TestAmerica St. Louis

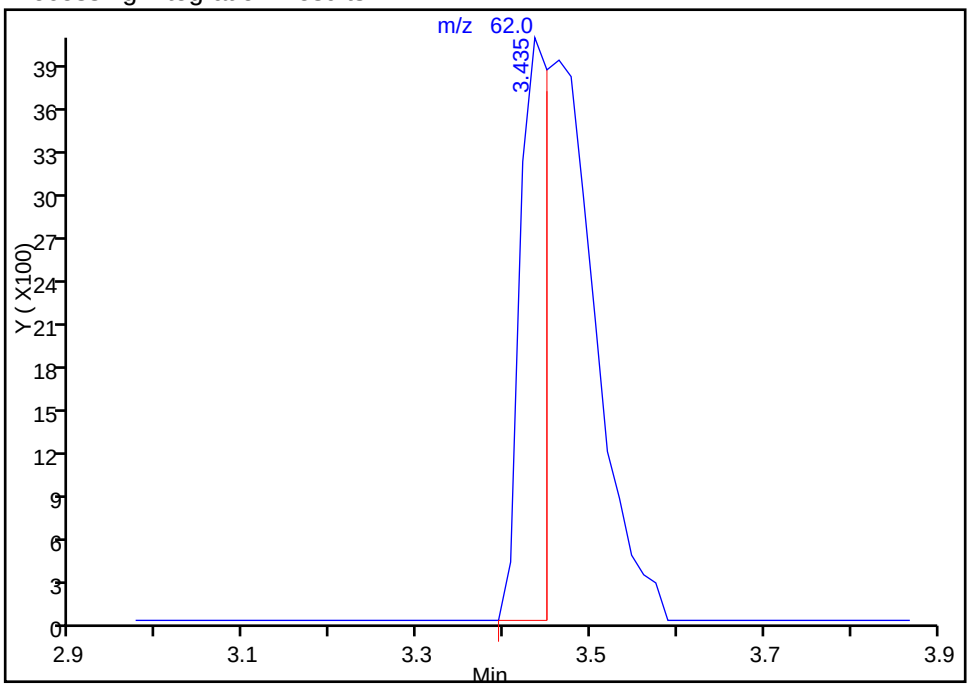
Data File:	\\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4346.D				
Injection Date:	17-Apr-2017 23:03:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-3	Lab Sample ID:	160-95891-3		
Client ID:	6MW2204				
Operator ID:	JDH	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

4 Vinyl chloride, CAS: 75-01-4

Signal: 1

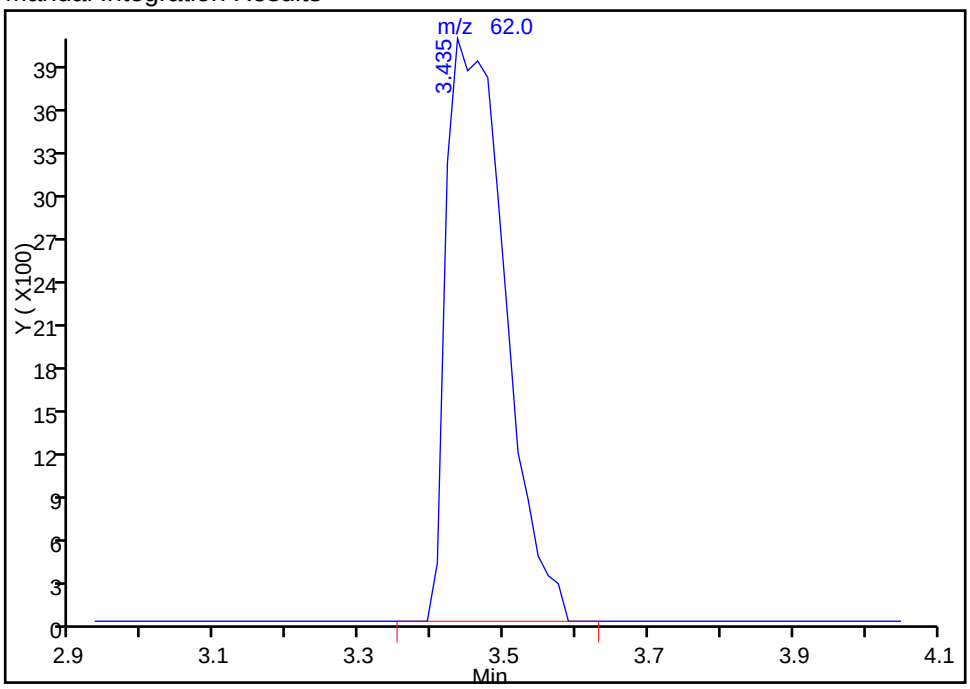
Processing Integration Results

RT: 3.44
Area: 9671
Amount: 0.962990
Amount Units: ug/l



Manual Integration Results

RT: 3.44
Area: 22971
Amount: 2.287338
Amount Units: ug/l



Reviewer: hannj, 20-Apr-2017 18:04:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2304 | Lab Sample ID: 280-95891-4

Matrix: Water | Lab File ID: MSMP4347.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 23:28

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	0.70	J M Q	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U Q	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	0.85	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2304 | Lab Sample ID: 280-95891-4

Matrix: Water | Lab File ID: MSMP4347.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 23:28

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U Q	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.5	J	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.1	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		81-118
460-00-4	4-Bromofluorobenzene (Surr)	102		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	102		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4347.D
Lims ID: 280-95891-B-4
Client ID: 6MW2304
Sample Type: Client
Inject. Date: 17-Apr-2017 23:28:30 ALS Bottle#: 16 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-018
Misc. Info.: 280-95891-B-4
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:06:31 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 18:07:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.031				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.198				ND	
3 Chloromethane	50		3.310				ND	
118 Butadiene	39		3.450				ND	
4 Vinyl chloride	62		3.464				ND	
5 Bromomethane	94	3.952	3.952	0.000	73	2472	0.7027	M
6 Chloroethane	64		4.162				ND	
7 Trichlorofluoromethane	101		4.371				ND	
119 Dichlorofluoromethane	67		4.469				ND	
8 Ethyl ether	74		4.860				ND	
9 Ethanol	45		5.070				ND	
10 1,1-Dichloroethene	96		5.140				ND	
11 Carbon disulfide	76		5.167				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.195				ND	
13 Iodomethane	142		5.335				ND	
14 Acrolein	56		5.600				ND	
16 3-Chloro-1-propene	39		5.768				ND	
17 Isopropyl alcohol	45	5.810	5.810	0.000	95	15401	47.0	
S 15 1,2-Dichloroethene, Total	96				0		0.8459	
18 Methylene Chloride	84		5.908				ND	
19 Acetone	43		5.978				ND	
21 trans-1,2-Dichloroethene	96		6.103				ND	
20 Methyl acetate	74		6.117				ND	
22 Hexane	86		6.201				ND	
23 Methyl tert-butyl ether	73		6.229				ND	
24 2-Methyl-2-propanol	59		6.341				ND	
25 Acetonitrile	41		6.536				ND	
26 Isopropyl ether	45		6.662				ND	
27 2-Chloro-1,3-butadiene	53		6.788				ND	
28 1,1-Dichloroethane	63		6.816				ND	
29 Acrylonitrile	53		6.871				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.053				ND	
31 Vinyl acetate	43		7.067				ND	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	77	7778	0.8459	
33 2,2-Dichloropropane	77		7.500				ND	
34 Chlorobromomethane	128		7.584				ND	
35 Cyclohexane	84		7.598				ND	
36 Chloroform	83		7.653				ND	
37 Ethyl acetate	45		7.765				ND	
38 Carbon tetrachloride	117		7.807				ND	
39 Tetrahydrofuran	71		7.821				ND	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	94	384506	49.9	
41 1,1,1-Trichloroethane	97		7.877				ND	
42 2-Butanone (MEK)	43		7.961				ND	
43 1,1-Dichloropropene	75		7.989				ND	
121 Isooctane	57		8.086				ND	
113 n-Heptane	43		8.170				ND	
45 Benzene	78		8.240				ND	
46 Propionitrile	54		8.268				ND	
47 Methacrylonitrile	41		8.282				ND	
48 Tert-amyl methyl ether	73		8.324				ND	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	344767	51.6	
44 Isobutyl alcohol	42		8.394				ND	
50 1,2-Dichloroethane	62		8.422				ND	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1543893	50.0	
53 Methylcyclohexane	55		8.785				ND	
52 Trichloroethene	95	8.785	8.785	0.000	89	9360	1.06	
122 1,4-Difluorobenzene	114		8.936				ND	
54 n-Butanol	56		9.036				ND	
55 Dibromomethane	93		9.190				ND	
120 Ethyl acrylate	55		9.246				ND	
56 1,2-Dichloropropane	63		9.274				ND	
57 Dichlorobromomethane	83		9.315				ND	
58 Methyl methacrylate	69		9.427				ND	
59 1,4-Dioxane	88		9.497				ND	
60 2-Chloroethyl vinyl ether	63		9.818				ND	
65 cis-1,3-Dichloropropene	75		9.888				ND	
$ 62 Toluene-d8 (Surr)	98	10.070	10.070	0.000	92	1567673	51.1	
63 Toluene	92		10.112				ND	
64 2-Nitropropane	43		10.321				ND	
71 4-Methyl-2-pentanone (MIBK	43		10.433				ND	
66 Tetrachloroethene	164	10.461	10.461	0.000	94	13215	1.49	
61 trans-1,3-Dichloropropene	75		10.475				ND	
67 Ethyl methacrylate	69		10.586				ND	
68 1,1,2-Trichloroethane	83		10.628				ND	
69 Chlorodibromomethane	129		10.796				ND	
70 1,3-Dichloropropane	76		10.880				ND	
72 Ethylene Dibromide	107		11.033				ND	
116 n-Butyl acetate	43		11.061				ND	
73 2-Hexanone	43		11.187				ND	
75 1-Chlorohexane	91		11.438				ND	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	83	1246409	50.0	
78 Chlorobenzene	112		11.508				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
77 Ethylbenzene	91		11.508				ND	
79 1,1,1,2-Tetrachloroethane	131		11.550				ND	
S 74 1,3-Dichloropropene, Total	75		11.620				ND	
80 m-Xylene & p-Xylene	106		11.634				ND	
81 o-Xylene	106		12.039				ND	
82 Styrene	104		12.081				ND	
84 Bromoform	173		12.123				ND	
85 Isopropylbenzene	105		12.318				ND	
83 Pentachloroethane	167		12.372				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.598	-0.001	94	496246		51.2
87 N-Propylbenzene	91		12.695				ND	
88 Bromobenzene	156		12.723				ND	
89 1,1,2,2-Tetrachloroethane	83		12.751				ND	
90 1,3,5-Trimethylbenzene	105		12.877				ND	
91 2-Chlorotoluene	91		12.877				ND	
92 1,2,3-Trichloropropane	110		12.905				ND	
93 trans-1,4-Dichloro-2-buten	53		12.933				ND	
94 Cyclohexanone	55		12.975				ND	
95 4-Chlorotoluene	91		13.030				ND	
96 tert-Butylbenzene	119		13.184				ND	
97 1,2,4-Trimethylbenzene	105		13.254				ND	
98 sec-Butylbenzene	105		13.352				ND	
99 4-Isopropyltoluene	119		13.477				ND	
100 1,3-Dichlorobenzene	146		13.589				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	95	545385		50.0
102 1,4-Dichlorobenzene	146		13.673				ND	
117 1,2,3-Trimethylbenzene	105		13.673				ND	
103 n-Butylbenzene	134		13.896				ND	
114 Benzyl chloride	126		13.910				ND	
104 1,2-Dichlorobenzene	146		14.092				ND	
105 n-Nonyl Aldehyde	57	14.832	14.846	-0.014	19	1012		1.57
106 1,2-Dibromo-3-Chloropropan	157		14.874				ND	
107 1,3,5-Trichlorobenzene	180		14.902				ND	
108 Hexachlorobutadiene	225		15.489				ND	
109 1,2,4-Trichlorobenzene	180		15.544				ND	
110 Naphthalene	128		15.880				ND	
111 1,2,3-Trichlorobenzene	180		16.061				ND	
S 112 Xylenes, Total	106		16.500				ND	
S 115 Trihalomethanes, Total	1		0.000				ND	
127 2-Methylpentane	1		0.000				ND	
126 C6-C12	1		0.000				ND	
128 2-Pentanone	1		0.000				ND	
$ 123 BFB	95		4.382				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

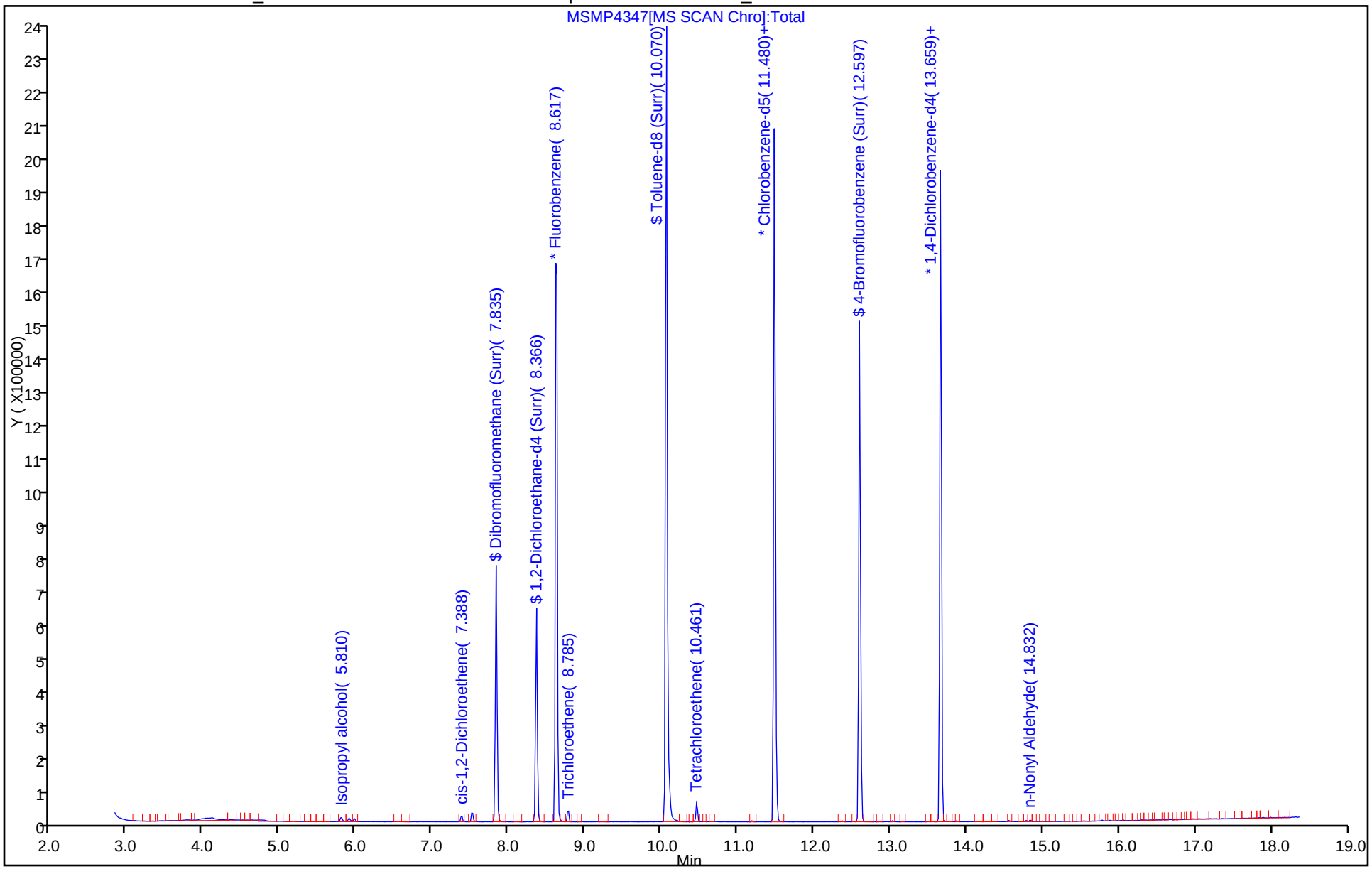
I.S. Working_00146	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 18:07:51 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4347.D

Injection Date:	17-Apr-2017 23:28:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	280-95891-B-4	Lab Sample ID:	160-95891-4	Worklist Smp#:	18
Client ID:	6MW2304				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4347.D
Lims ID: 280-95891-B-4
Client ID: 6MW2304
Sample Type: Client
Inject. Date: 17-Apr-2017 23:28:30 ALS Bottle#: 16 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-018
Misc. Info.: 280-95891-B-4
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:06:31 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 18:07:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 40 Dibromofluoromethane (Surr)	50.0	49.9	99.76
$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	51.6	103.10
$ 62 Toluene-d8 (Surr)	50.0	51.1	102.30
$ 86 4-Bromofluorobenzene (Surr)	50.0	51.2	102.39

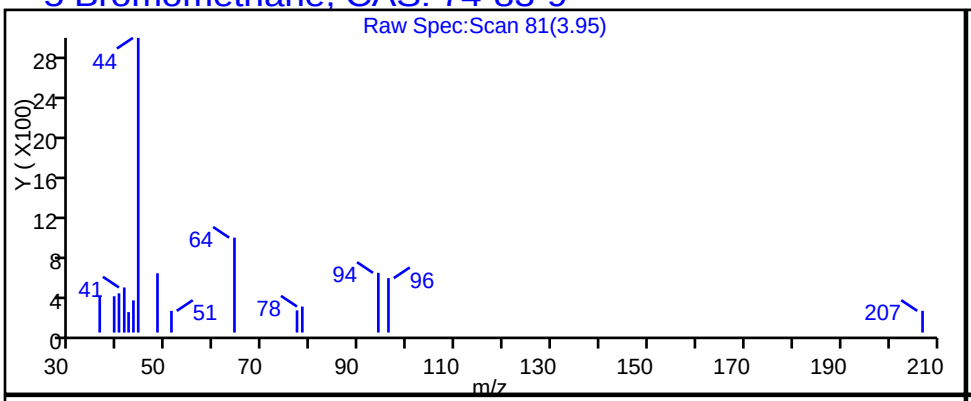
Report Date: 20-Apr-2017 18:07:51 Chrom Revision: 2.2 18-Apr-2017 07:43:58

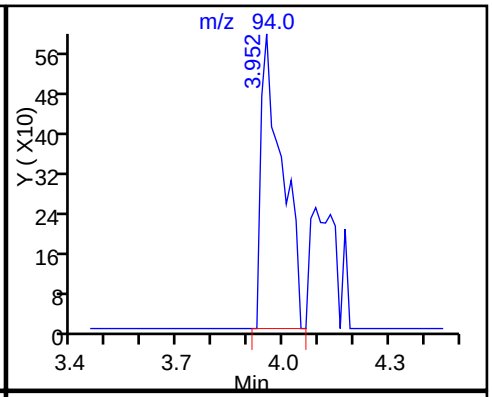
TestAmerica St. Louis

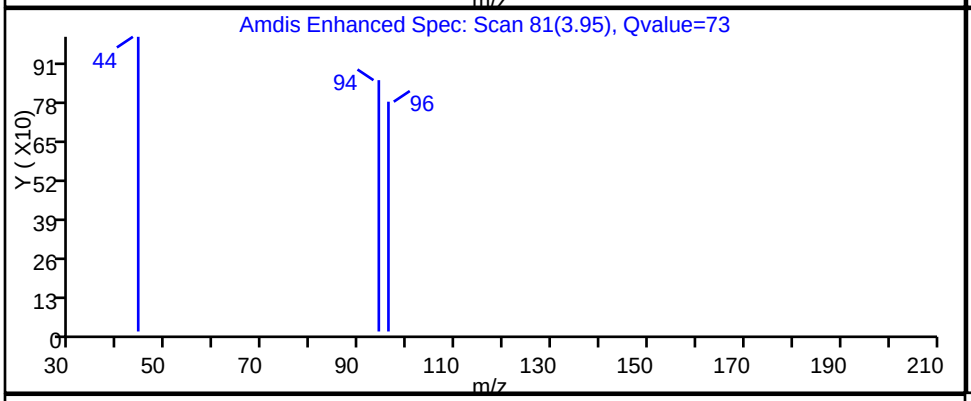
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4347.D

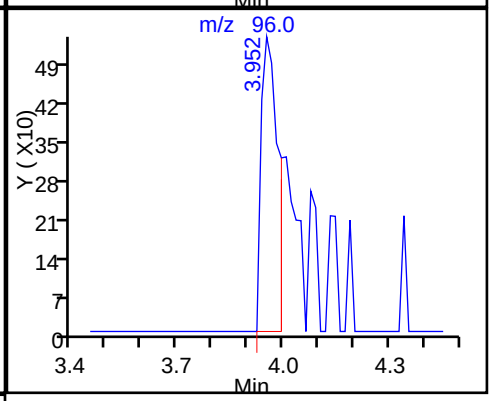
Injection Date:	17-Apr-2017 23:28:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-4	Lab Sample ID:	160-95891-4		
Client ID:	6MW2304				
Operator ID:	JDH	ALS Bottle#:	16	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

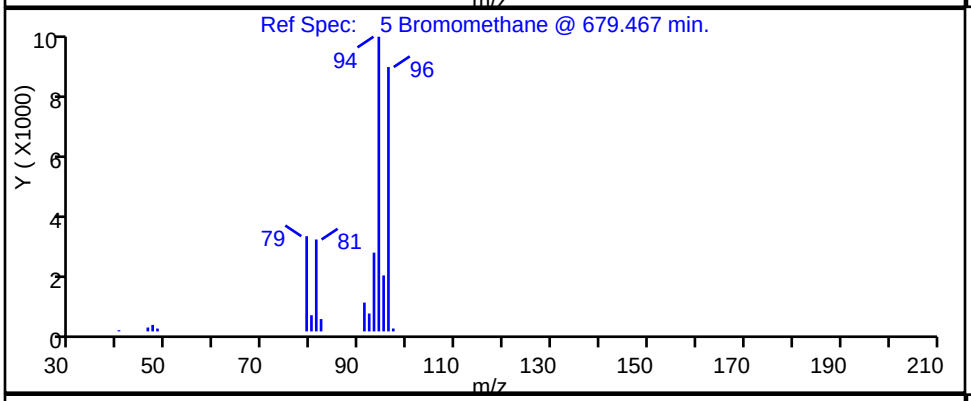
5 Bromomethane, CAS: 74-83-9

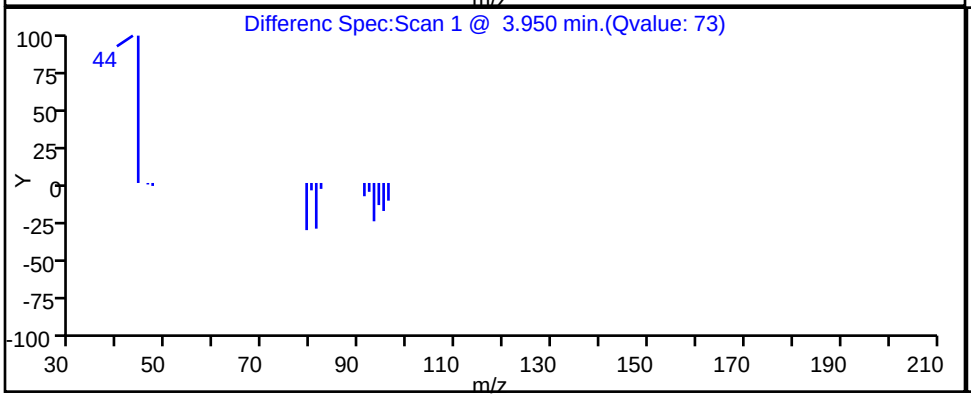


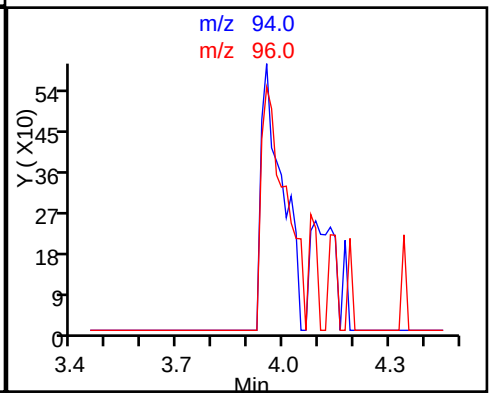












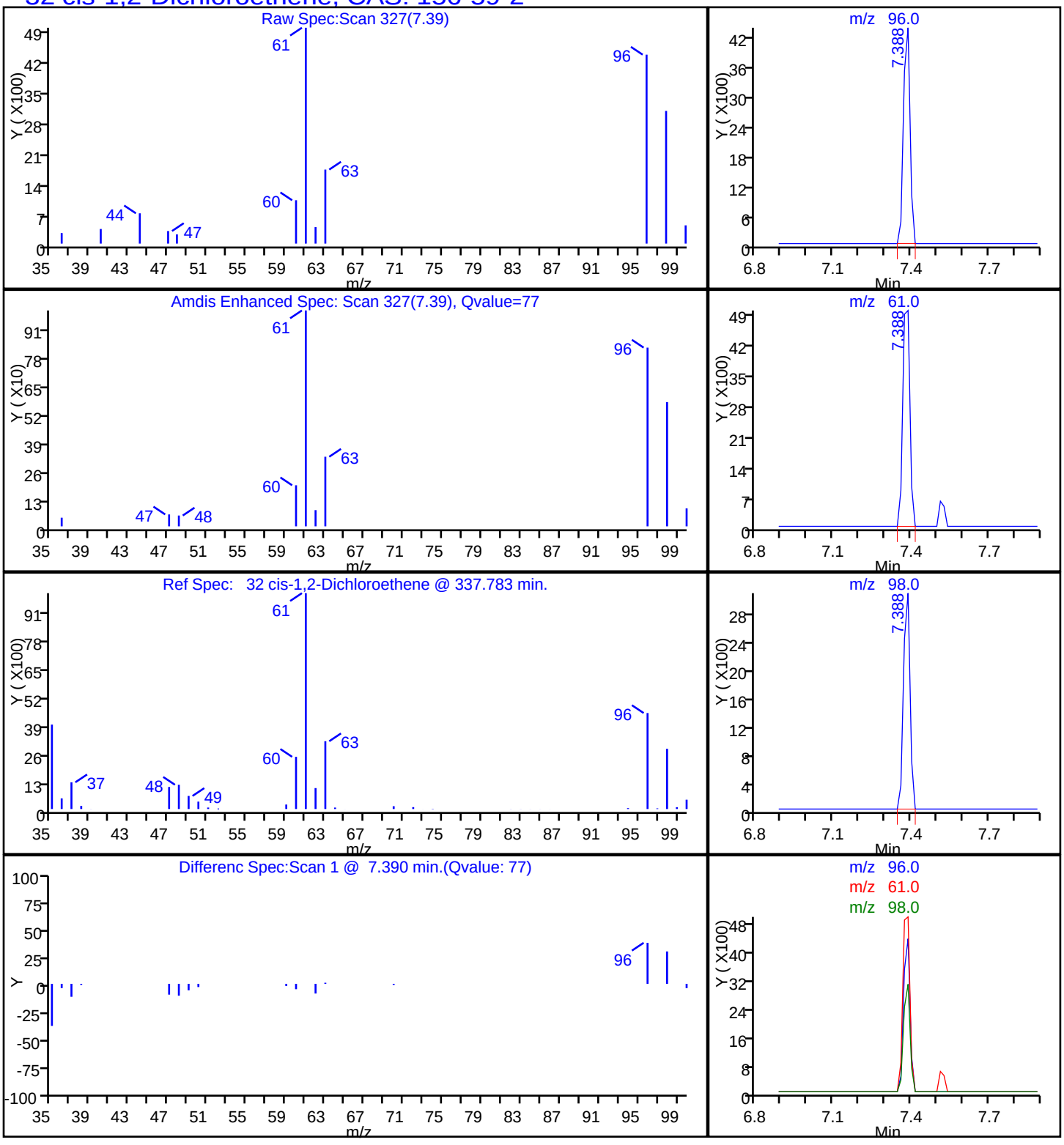
Report Date: 20-Apr-2017 18:07:51 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4347.D

Injection Date:	17-Apr-2017 23:28:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-4	Lab Sample ID:	160-95891-4		
Client ID:	6MW2304				
Operator ID:	JDH	ALS Bottle#:	16	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

32 cis-1,2-Dichloroethene, CAS: 156-59-2



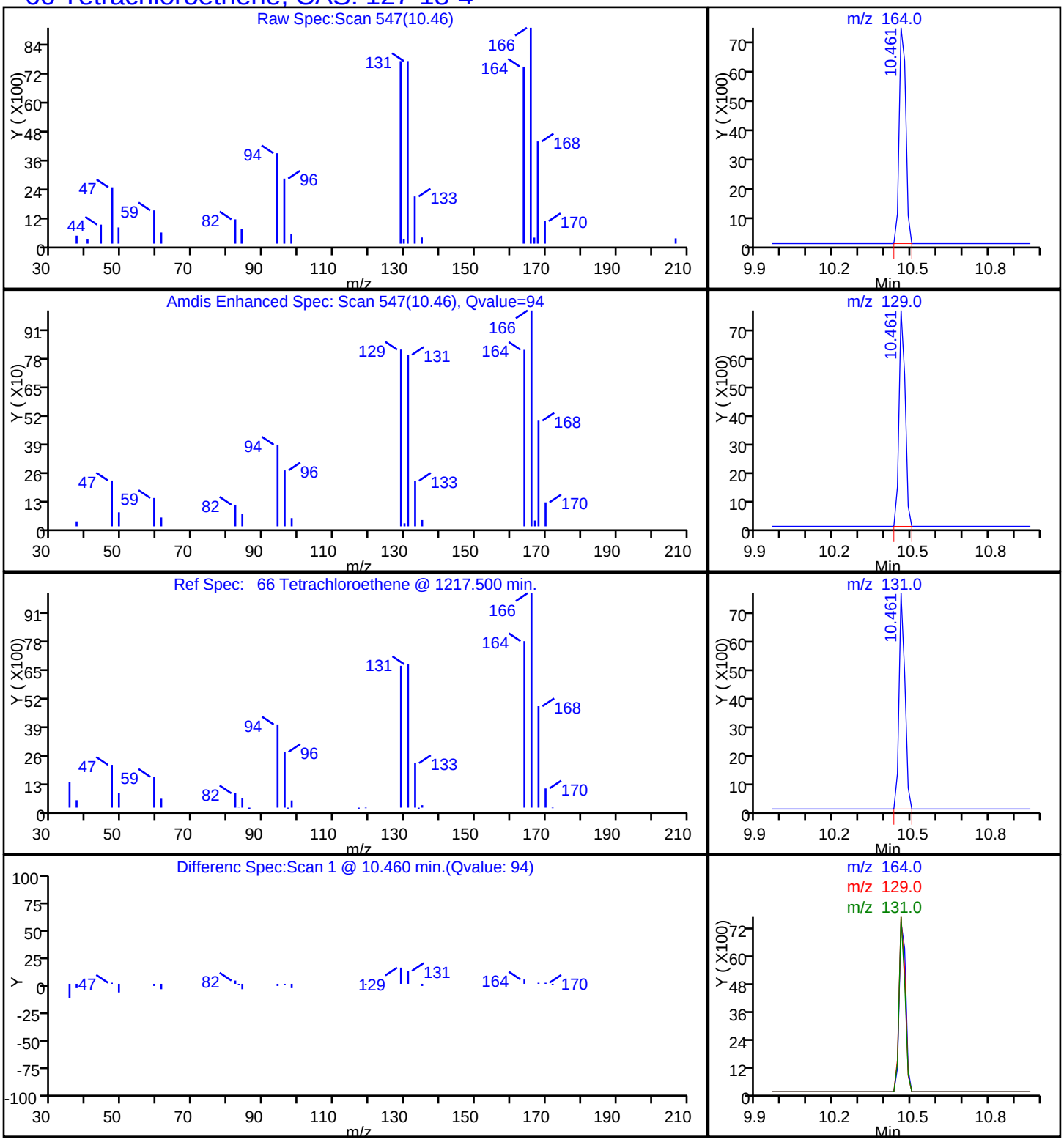
Report Date: 20-Apr-2017 18:07:51 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4347.D

Injection Date:	17-Apr-2017 23:28:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-4	Lab Sample ID:	160-95891-4		
Client ID:	6MW2304				
Operator ID:	JDH	ALS Bottle#:	16	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

66 Tetrachloroethene, CAS: 127-18-4



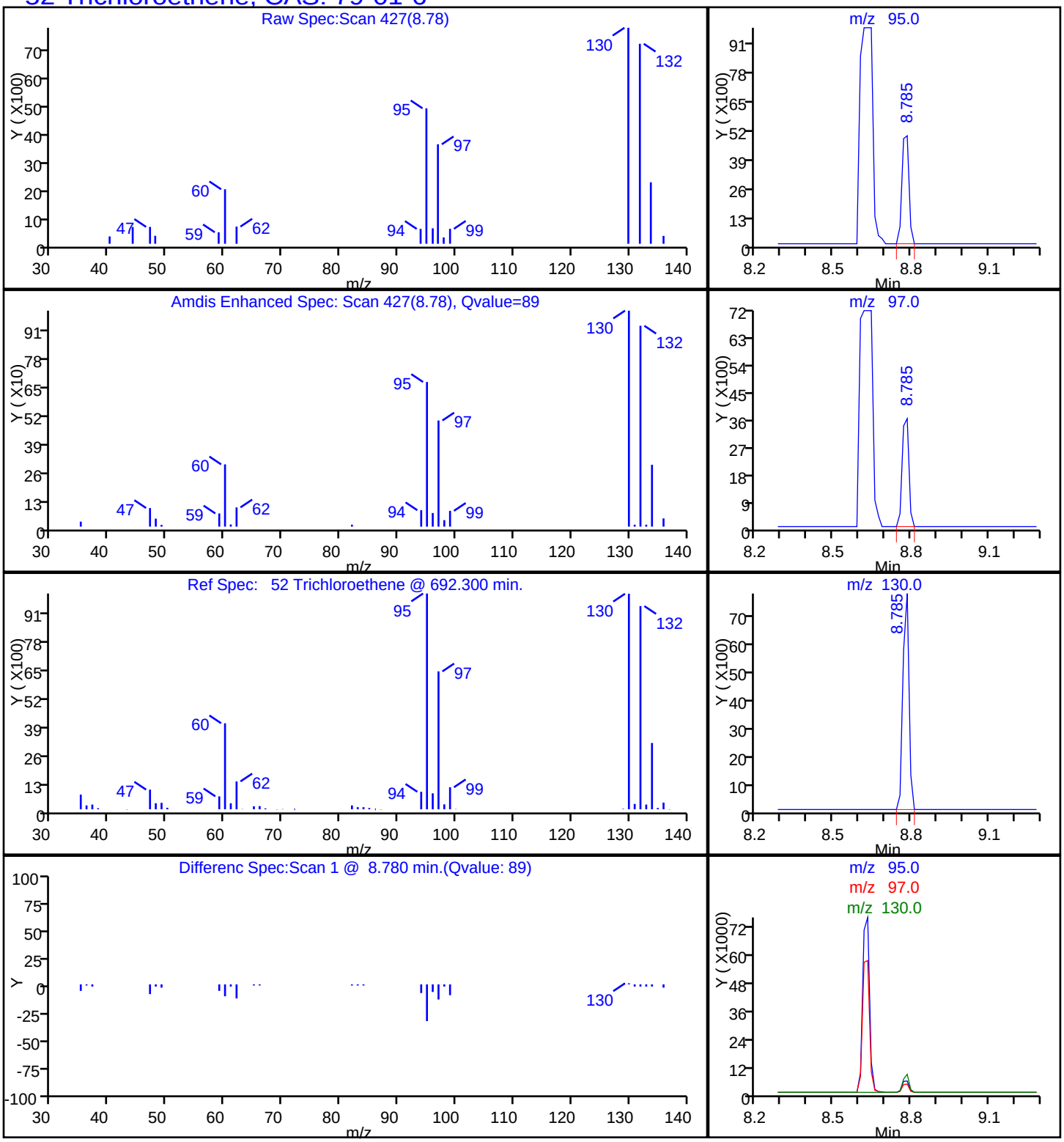
Report Date: 20-Apr-2017 18:07:51 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4347.D

Injection Date:	17-Apr-2017 23:28:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-4	Lab Sample ID:	160-95891-4		
Client ID:	6MW2304				
Operator ID:	JDH	ALS Bottle#:	16	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

52 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4347.D

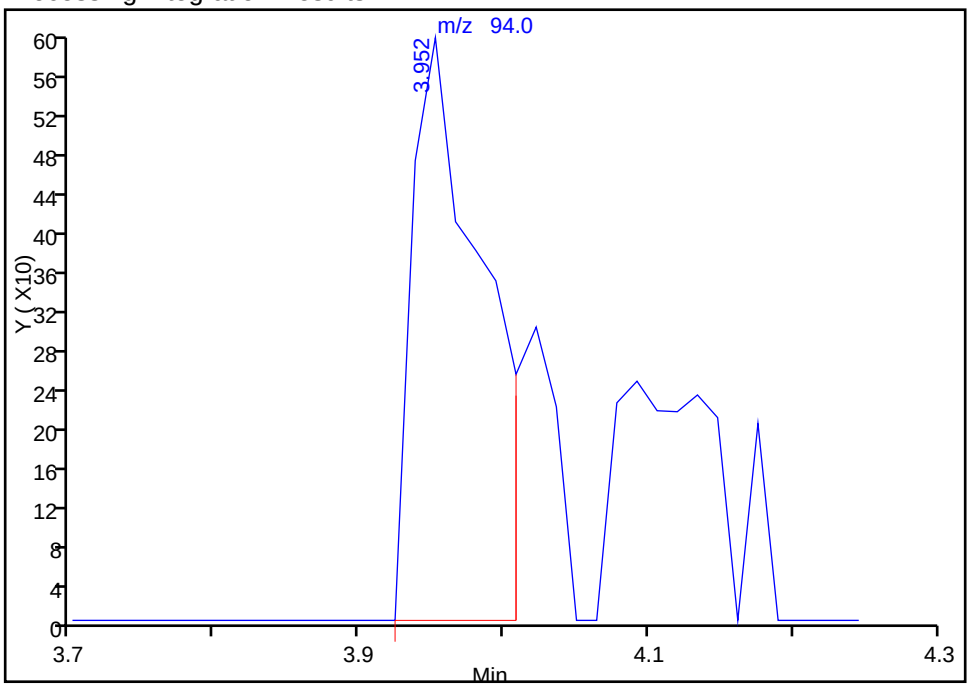
Injection Date:	17-Apr-2017 23:28:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-4	Lab Sample ID:	160-95891-4		
Client ID:	6MW2304				
Operator ID:	JDH	ALS Bottle#:	16	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

5 Bromomethane, CAS: 74-83-9

Signal: 1

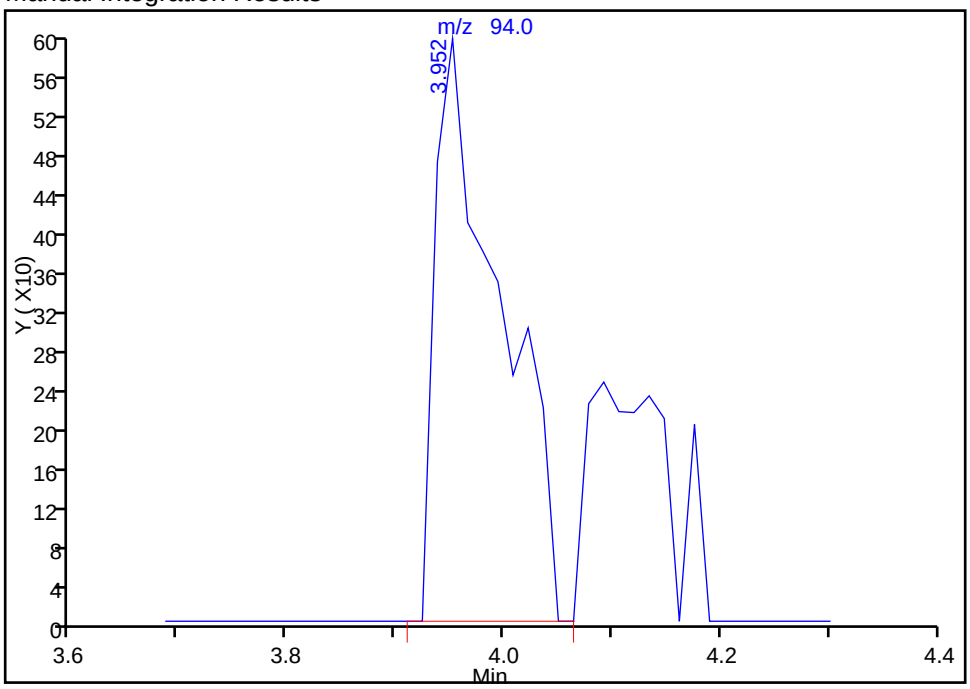
Processing Integration Results

RT: 3.95
Area: 2041
Amount: 0.580184
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 2472
Amount: 0.702702
Amount Units: ug/l



Reviewer: hannj, 20-Apr-2017 18:03:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2404 | Lab Sample ID: 280-95891-5

Matrix: Water | Lab File ID: MSMP4348.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 23:53

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	0.83	J M Q	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U Q	10	1.0	0.38
67-66-3	Chloroform	0.84	J	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	3.0	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2404 | Lab Sample ID: 280-95891-5

Matrix: Water | Lab File ID: MSMP4348.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 23:53

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U Q	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	4.6	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	0.52	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		81-118
460-00-4	4-Bromofluorobenzene (Surr)	104		85-114
1868-53-7	Dibromofluoromethane (Surr)	103		80-119
2037-26-5	Toluene-d8 (Surr)	102		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4348.D
Lims ID: 280-95891-B-5
Client ID: 6MW2404
Sample Type: Client
Inject. Date: 17-Apr-2017 23:53:30 ALS Bottle#: 17 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-019
Misc. Info.: 280-95891-B-5
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:09:08 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 18:09:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.031				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.198				ND	
3 Chloromethane	50		3.310				ND	
118 Butadiene	39		3.450				ND	
4 Vinyl chloride	62	3.464	3.464	0.000	94	5121	0.5174	
5 Bromomethane	94	3.952	3.952	0.000	86	2860	0.8348	M
6 Chloroethane	64		4.162				ND	
7 Trichlorofluoromethane	101		4.371				ND	
119 Dichlorofluoromethane	67		4.469				ND	
8 Ethyl ether	74		4.860				ND	
9 Ethanol	45		5.070				ND	
10 1,1-Dichloroethene	96		5.140				ND	
11 Carbon disulfide	76		5.167				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.195				ND	
13 Iodomethane	142		5.335				ND	
14 Acrolein	56		5.600				ND	
16 3-Chloro-1-propene	39		5.768				ND	
17 Isopropyl alcohol	45	5.810	5.810	0.000	94	7308	22.9	
S 15 1,2-Dichloroethene, Total	96				0		3.03	
18 Methylene Chloride	84		5.908				ND	
19 Acetone	43		5.978				ND	
21 trans-1,2-Dichloroethene	96		6.103				ND	
20 Methyl acetate	74		6.117				ND	
22 Hexane	86		6.201				ND	
23 Methyl tert-butyl ether	73		6.229				ND	
24 2-Methyl-2-propanol	59		6.341				ND	
25 Acetonitrile	41		6.536				ND	
26 Isopropyl ether	45		6.662				ND	
27 2-Chloro-1,3-butadiene	53		6.788				ND	
28 1,1-Dichloroethane	63		6.816				ND	
29 Acrylonitrile	53		6.871				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.053				ND	
31 Vinyl acetate	43		7.067				ND	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	79	27163	3.03	
33 2,2-Dichloropropane	77		7.500				ND	
34 Chlorobromomethane	128		7.584				ND	
35 Cyclohexane	84		7.598				ND	
36 Chloroform	83	7.653	7.653	0.000	94	10591	0.8449	
37 Ethyl acetate	45		7.765				ND	
38 Carbon tetrachloride	117		7.807				ND	
39 Tetrahydrofuran	71		7.821				ND	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	93	384884	51.3	
41 1,1,1-Trichloroethane	97		7.877				ND	
42 2-Butanone (MEK)	43		7.961				ND	
43 1,1-Dichloropropene	75		7.989				ND	
121 Isooctane	57		8.086				ND	
113 n-Heptane	43		8.170				ND	
45 Benzene	78		8.240				ND	
46 Propionitrile	54		8.268				ND	
47 Methacrylonitrile	41		8.282				ND	
48 Tert-amyl methyl ether	73		8.324				ND	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	346688	53.2	
44 Isobutyl alcohol	42		8.394				ND	
50 1,2-Dichloroethane	62		8.422				ND	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1503631	50.0	
53 Methylcyclohexane	55		8.785				ND	
52 Trichloroethene	95	8.785	8.785	0.000	92	39438	4.57	
122 1,4-Difluorobenzene	114		8.936				ND	
54 n-Butanol	56		9.036				ND	
55 Dibromomethane	93		9.190				ND	
120 Ethyl acrylate	55		9.246				ND	
56 1,2-Dichloropropane	63		9.274				ND	
57 Dichlorobromomethane	83		9.315				ND	
58 Methyl methacrylate	69		9.427				ND	
59 1,4-Dioxane	88		9.497				ND	
60 2-Chloroethyl vinyl ether	63		9.818				ND	
65 cis-1,3-Dichloropropene	75		9.888				ND	
$ 62 Toluene-d8 (Surr)	98	10.070	10.070	0.000	92	1552762	51.2	
63 Toluene	92		10.112				ND	
64 2-Nitropropane	43		10.321				ND	
71 4-Methyl-2-pentanone (MIBK	43		10.433				ND	
66 Tetrachloroethene	164		10.461				ND	
61 trans-1,3-Dichloropropene	75		10.475				ND	
67 Ethyl methacrylate	69		10.586				ND	
68 1,1,2-Trichloroethane	83		10.628				ND	
69 Chlorodibromomethane	129		10.796				ND	
70 1,3-Dichloropropane	76		10.880				ND	
72 Ethylene Dibromide	107		11.033				ND	
116 n-Butyl acetate	43		11.061				ND	
73 2-Hexanone	43		11.187				ND	
75 1-Chlorohexane	91		11.438				ND	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	83	1233724	50.0	
78 Chlorobenzene	112		11.508				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
77 Ethylbenzene	91		11.508				ND	
79 1,1,1,2-Tetrachloroethane	131		11.550				ND	
S 74 1,3-Dichloropropene, Total	75		11.620				ND	
80 m-Xylene & p-Xylene	106		11.634				ND	
81 o-Xylene	106		12.039				ND	
82 Styrene	104		12.081				ND	
84 Bromoform	173		12.123				ND	
85 Isopropylbenzene	105		12.318				ND	
83 Pentachloroethane	167		12.372				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.598	12.598	0.000	95	492850	52.2	
87 N-Propylbenzene	91		12.695				ND	
88 Bromobenzene	156		12.723				ND	
89 1,1,2,2-Tetrachloroethane	83		12.751				ND	
90 1,3,5-Trimethylbenzene	105		12.877				ND	
91 2-Chlorotoluene	91		12.877				ND	
92 1,2,3-Trichloropropane	110		12.905				ND	
93 trans-1,4-Dichloro-2-buten	53		12.933				ND	
94 Cyclohexanone	55		12.975				ND	
95 4-Chlorotoluene	91		13.030				ND	
96 tert-Butylbenzene	119		13.184				ND	
97 1,2,4-Trimethylbenzene	105		13.254				ND	
98 sec-Butylbenzene	105		13.352				ND	
99 4-Isopropyltoluene	119		13.477				ND	
100 1,3-Dichlorobenzene	146		13.589				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	94	531250	50.0	
102 1,4-Dichlorobenzene	146		13.673				ND	
117 1,2,3-Trimethylbenzene	105		13.673				ND	
103 n-Butylbenzene	134		13.896				ND	
114 Benzyl chloride	126		13.910				ND	
104 1,2-Dichlorobenzene	146		14.092				ND	
105 n-Nonyl Aldehyde	57		14.846				ND	
106 1,2-Dibromo-3-Chloropropan	157		14.874				ND	
107 1,3,5-Trichlorobenzene	180		14.902				ND	
108 Hexachlorobutadiene	225		15.489				ND	
109 1,2,4-Trichlorobenzene	180		15.544				ND	
110 Naphthalene	128		15.880				ND	
111 1,2,3-Trichlorobenzene	180		16.061				ND	
S 112 Xylenes, Total	106		16.500				ND	
S 115 Trihalomethanes, Total	1				0		0.8449	
127 2-Methylpentane	1		0.000				ND	
126 C6-C12	1		0.000				ND	
128 2-Pentanone	1		0.000				ND	
$ 123 BFB	95		4.382				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

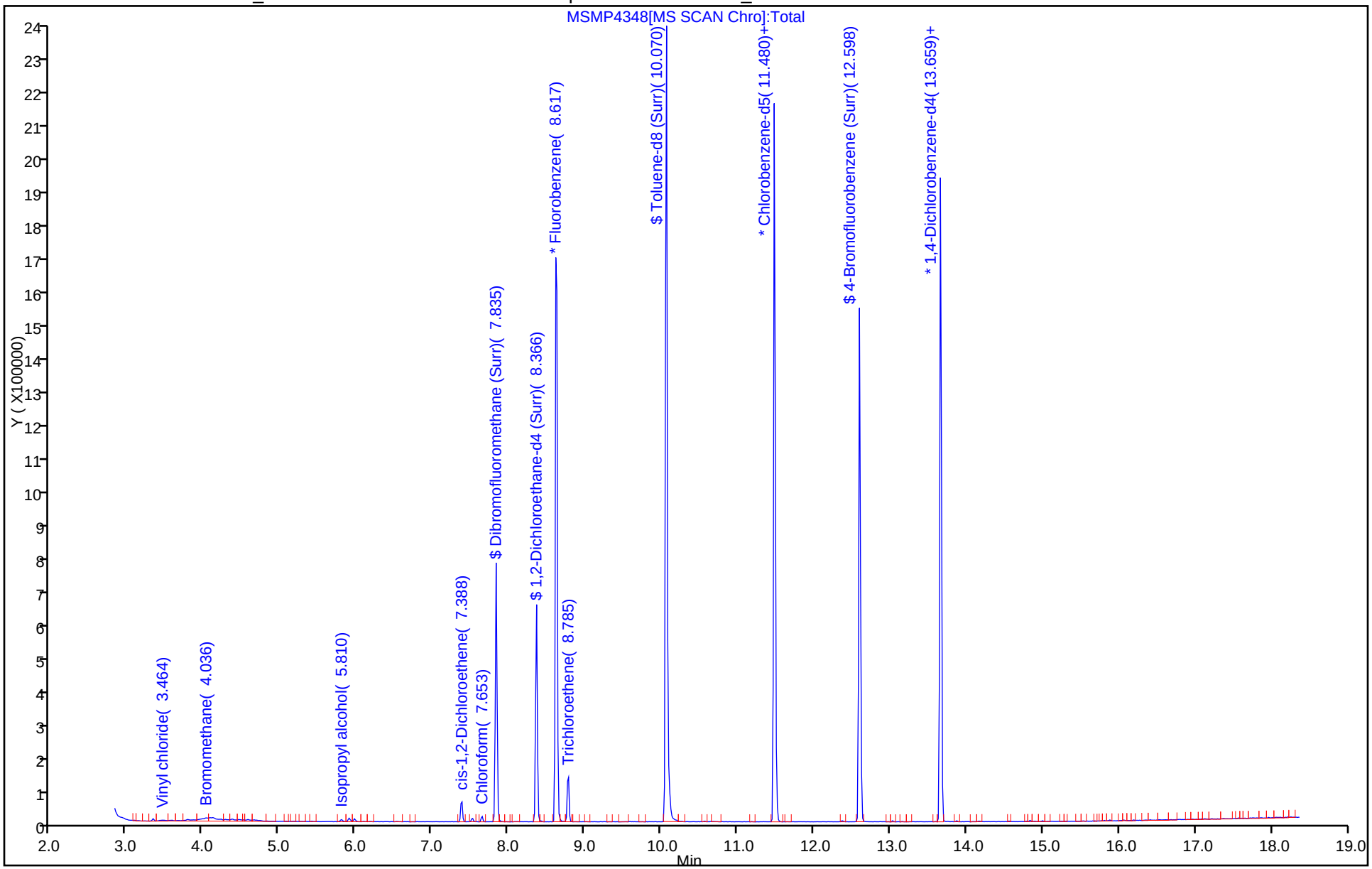
I.S. Working_00146	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 18:09:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4348.D

Injection Date:	17-Apr-2017 23:53:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	280-95891-B-5	Lab Sample ID:	160-95891-5	Worklist Smp#:	19
Client ID:	6MW2404				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4348.D
Lims ID: 280-95891-B-5
Client ID: 6MW2404
Sample Type: Client
Inject. Date: 17-Apr-2017 23:53:30 ALS Bottle#: 17 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-019
Misc. Info.: 280-95891-B-5
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:09:08 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 18:09:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 40 Dibromofluoromethane (Surr)	50.0	51.3	102.53
$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	53.2	106.45
$ 62 Toluene-d8 (Surr)	50.0	51.2	102.37
$ 86 4-Bromofluorobenzene (Surr)	50.0	52.2	104.40

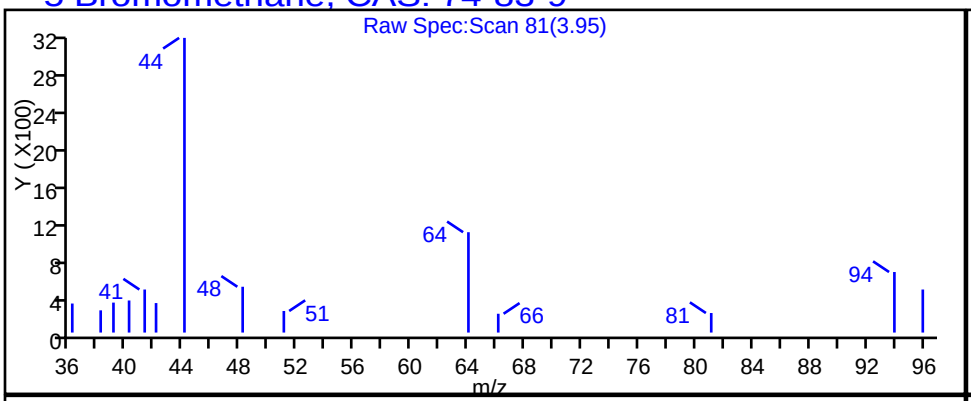
Report Date: 20-Apr-2017 18:09:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

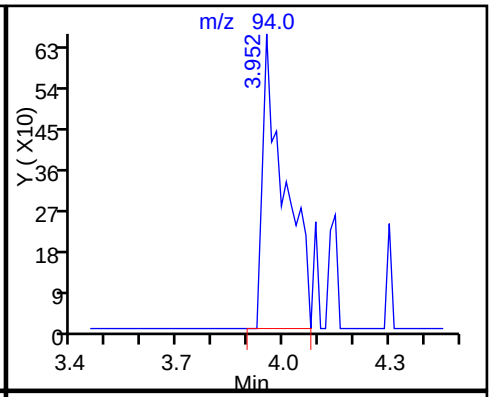
TestAmerica St. Louis

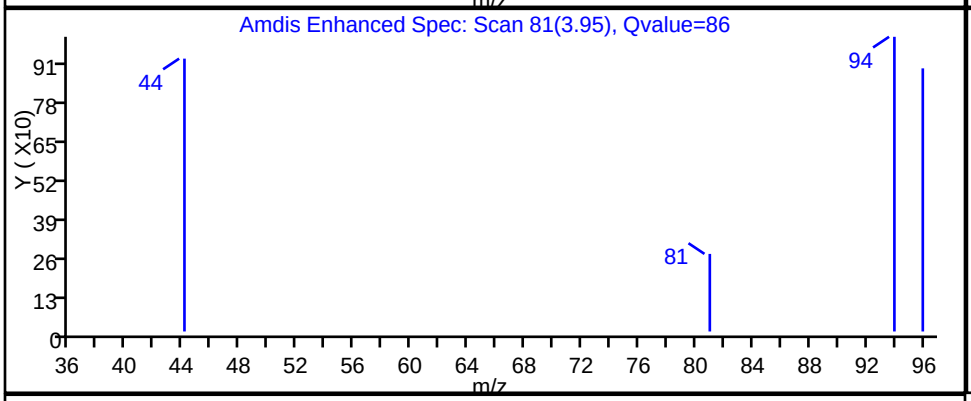
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4348.D

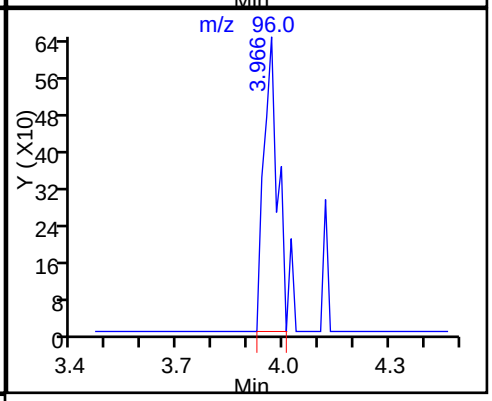
Injection Date:	17-Apr-2017 23:53:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-5	Lab Sample ID:	160-95891-5		
Client ID:	6MW2404				
Operator ID:	JDH	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

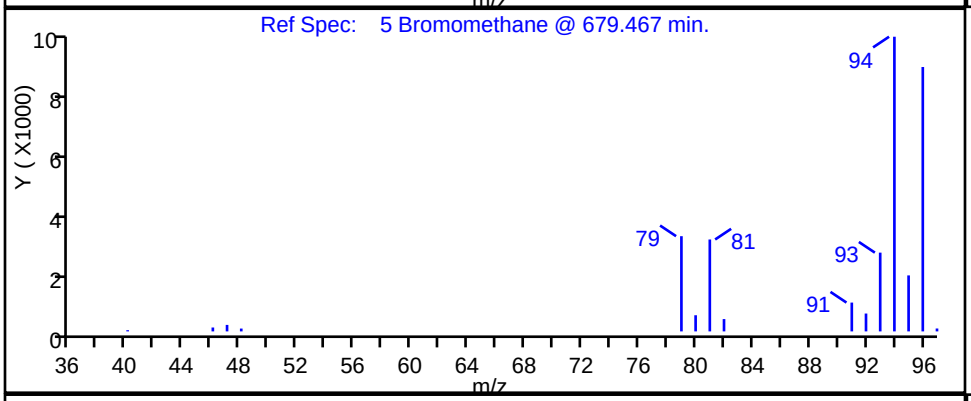
5 Bromomethane, CAS: 74-83-9

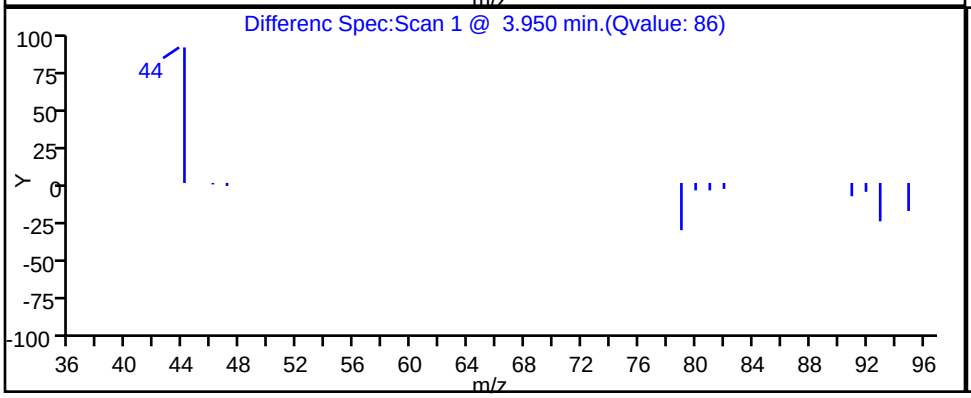


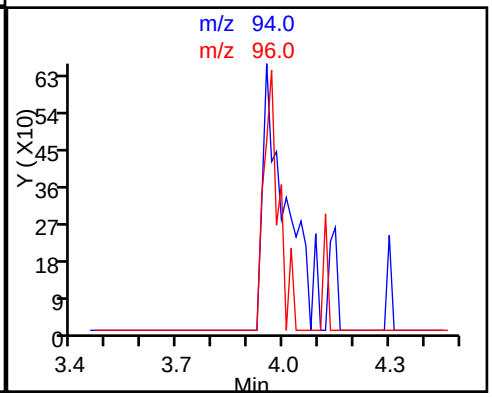












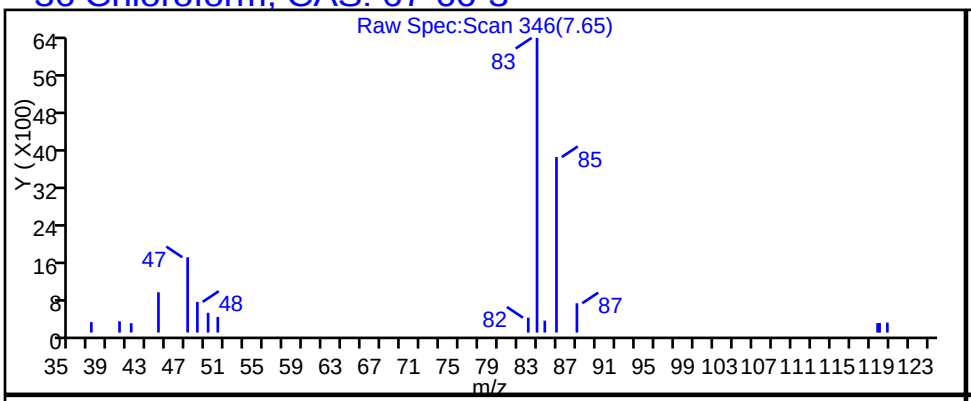
Report Date: 20-Apr-2017 18:09:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

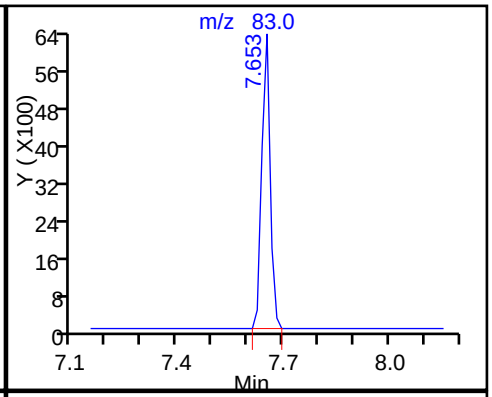
TestAmerica St. Louis

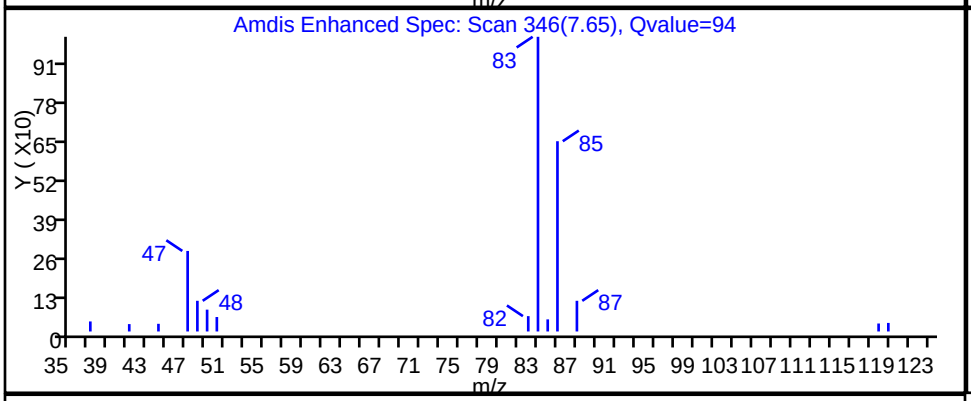
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4348.D

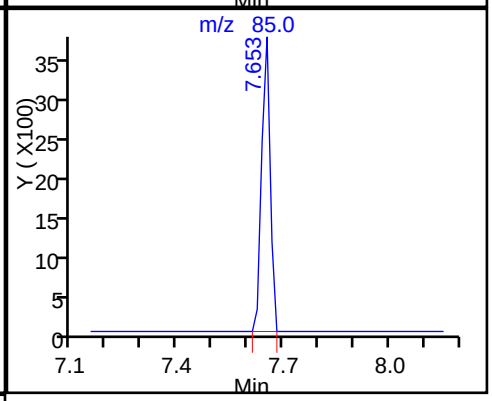
Injection Date:	17-Apr-2017 23:53:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-5	Lab Sample ID:	160-95891-5		
Client ID:	6MW2404				
Operator ID:	JDH	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

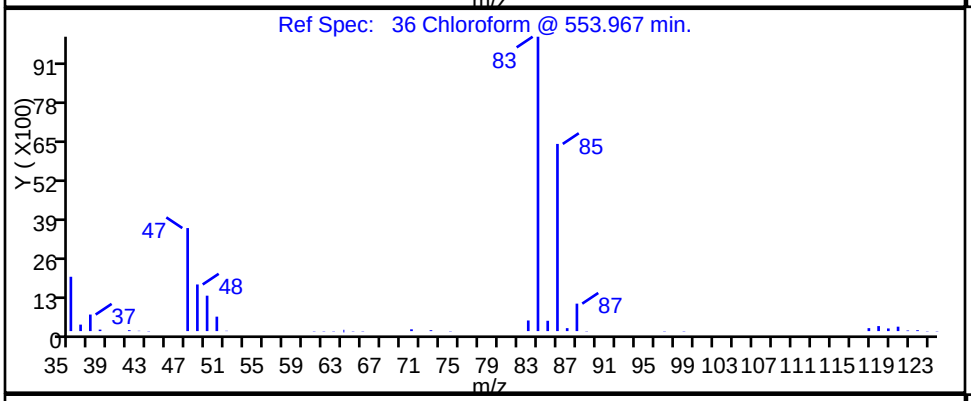
36 Chloroform, CAS: 67-66-3

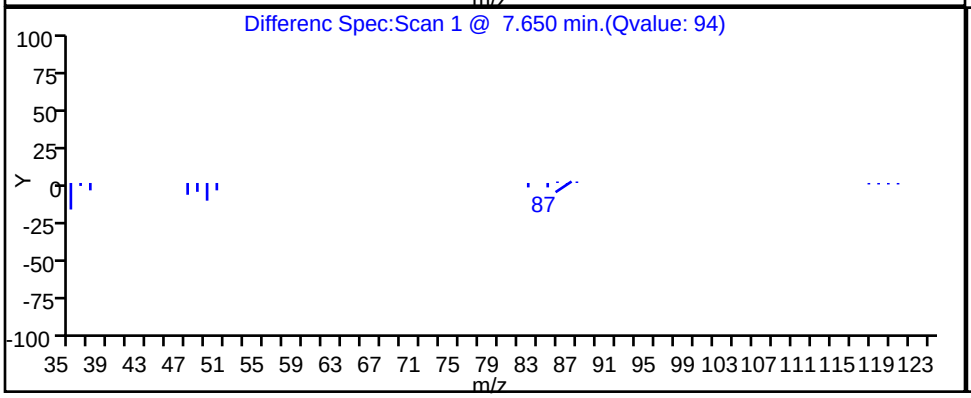


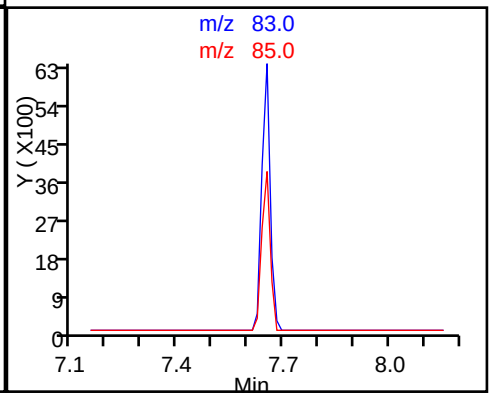












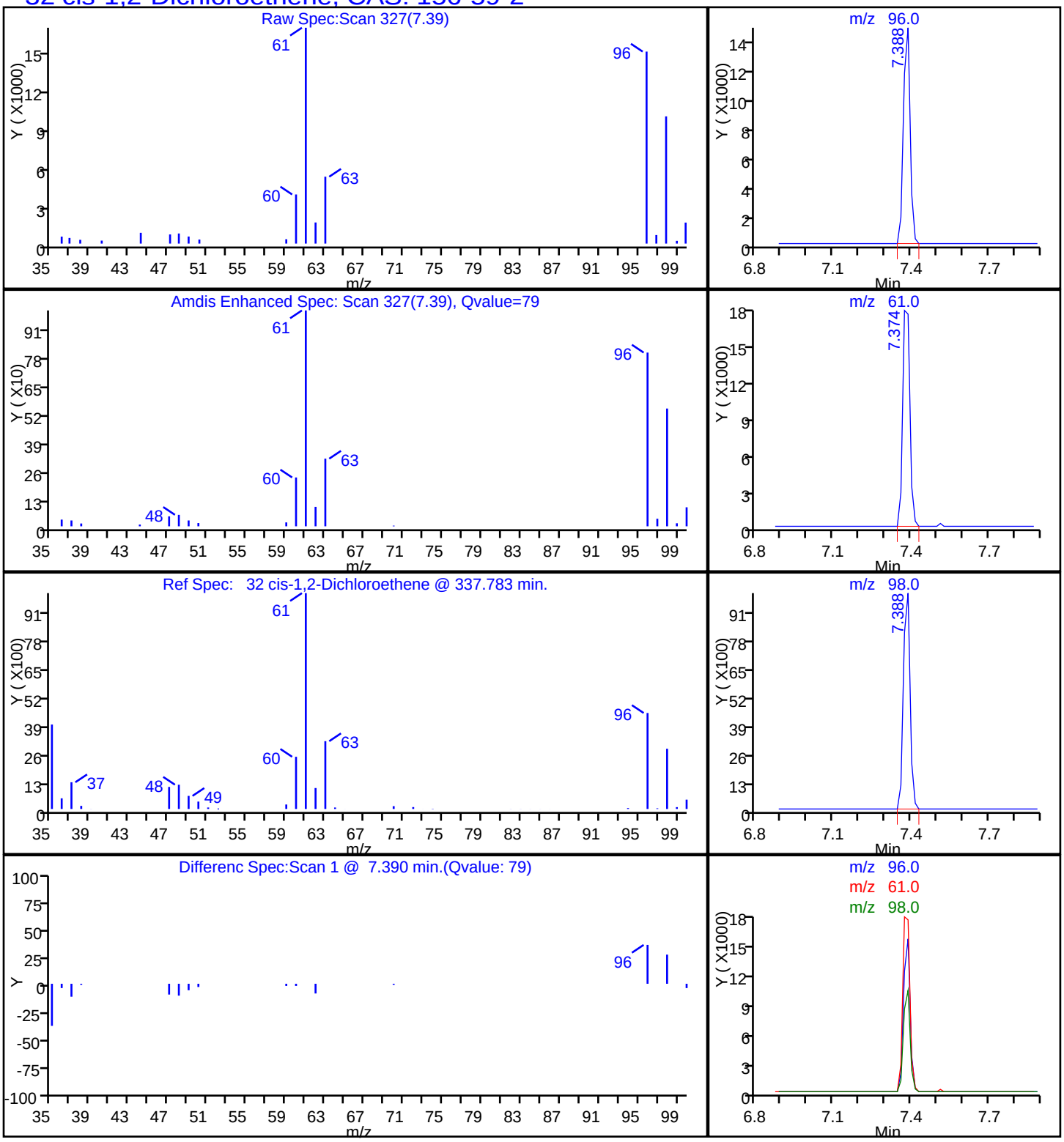
Report Date: 20-Apr-2017 18:09:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4348.D

Injection Date:	17-Apr-2017 23:53:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-5	Lab Sample ID:	160-95891-5		
Client ID:	6MW2404				
Operator ID:	JDH	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

32 cis-1,2-Dichloroethene, CAS: 156-59-2



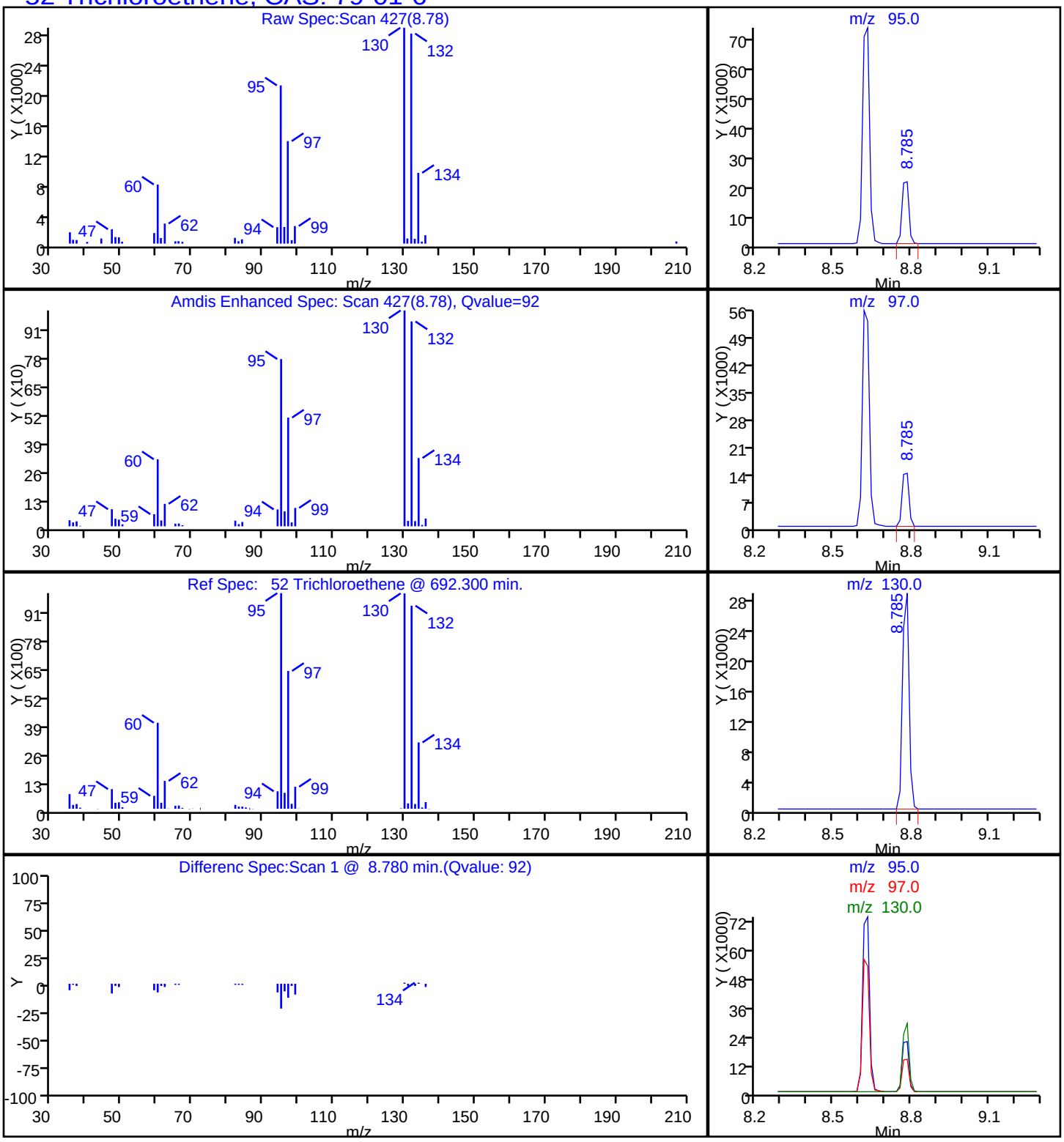
Report Date: 20-Apr-2017 18:09:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4348.D

Injection Date:	17-Apr-2017 23:53:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-5	Lab Sample ID:	160-95891-5		
Client ID:	6MW2404				
Operator ID:	JDH	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

52 Trichloroethene, CAS: 79-01-6



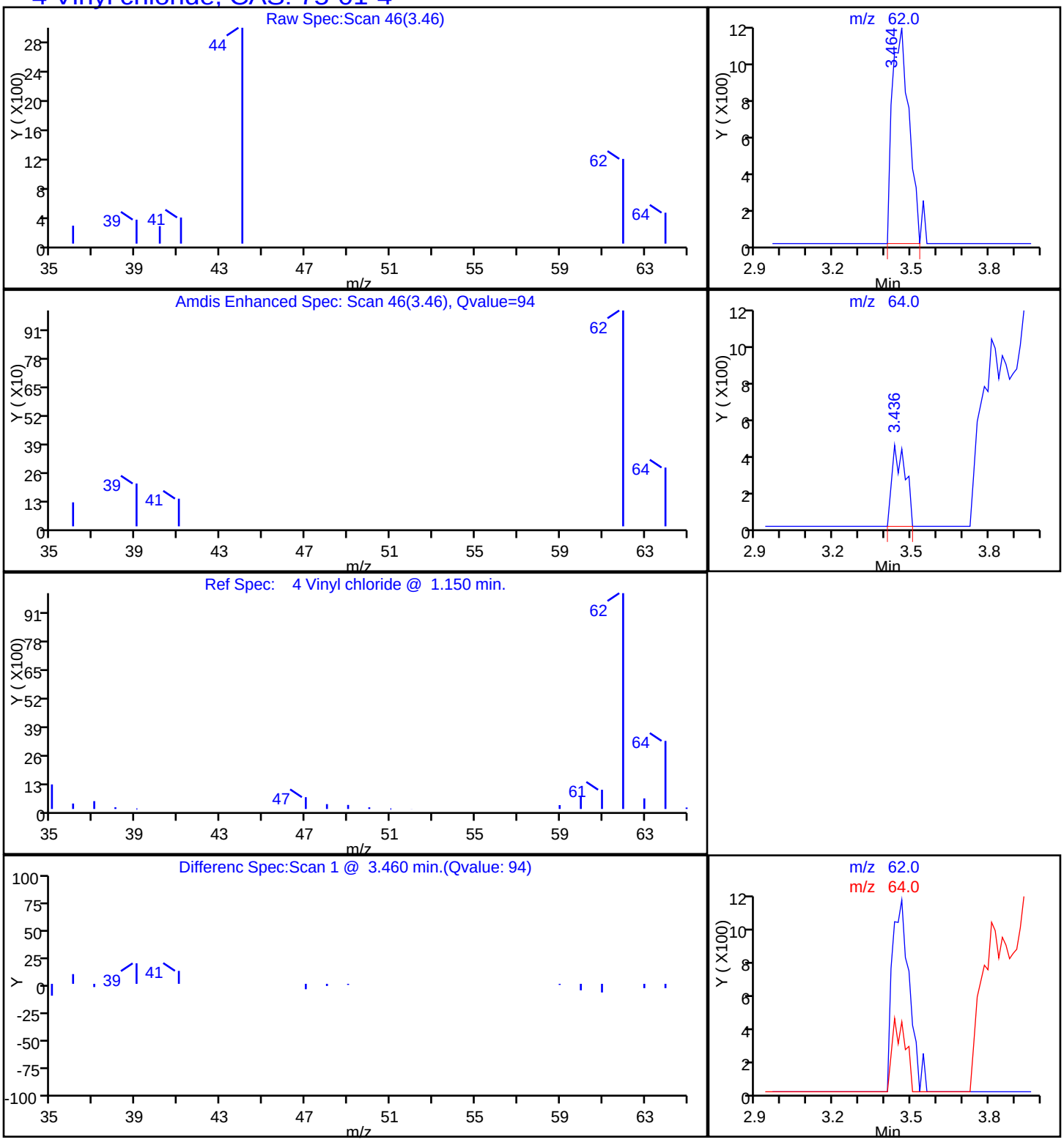
Report Date: 20-Apr-2017 18:09:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4348.D

Injection Date:	17-Apr-2017 23:53:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-5	Lab Sample ID:	160-95891-5		
Client ID:	6MW2404				
Operator ID:	JDH	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

4 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4348.D

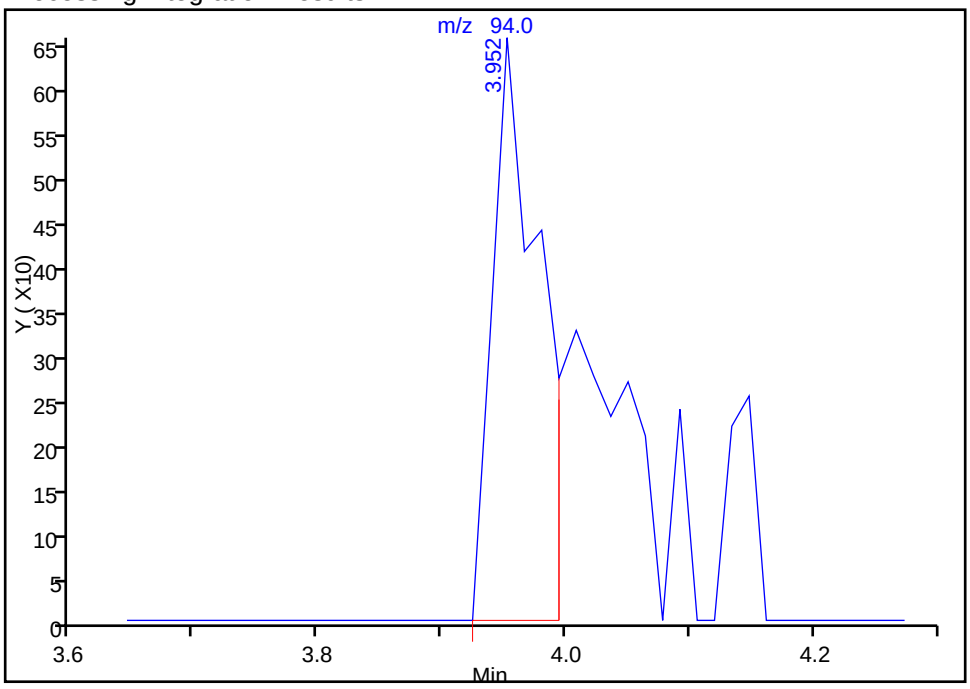
Injection Date:	17-Apr-2017 23:53:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-5	Lab Sample ID:	160-95891-5		
Client ID:	6MW2404				
Operator ID:	JDH	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

5 Bromomethane, CAS: 74-83-9

Signal: 1

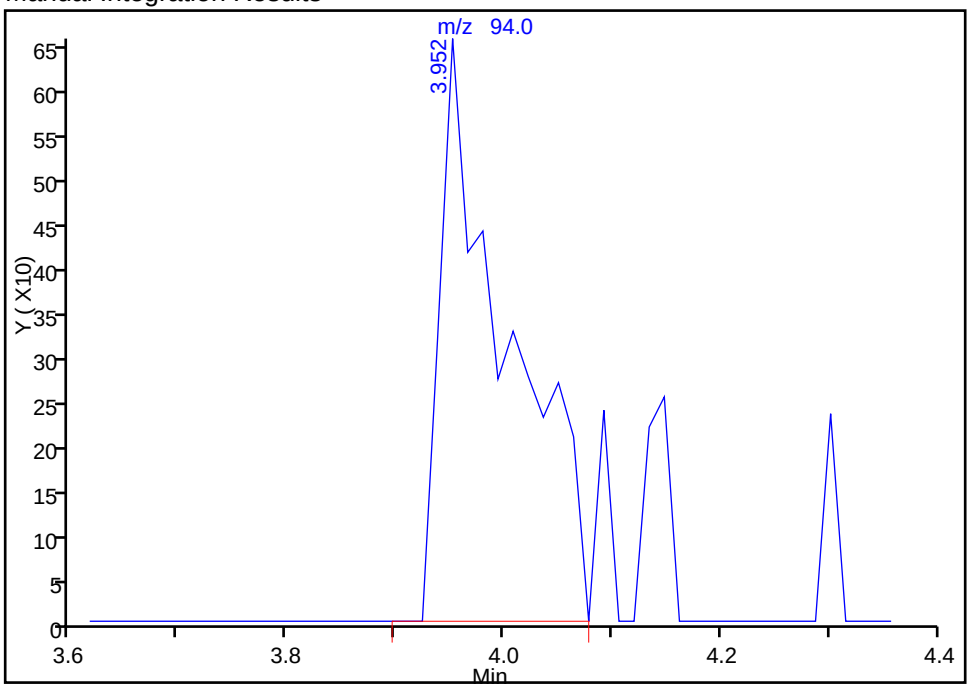
Processing Integration Results

RT: 3.95
Area: 1762
Amount: 0.514286
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 2860
Amount: 0.834766
Amount Units: ug/l



Reviewer: hannj, 20-Apr-2017 18:08:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2504 | Lab Sample ID: 280-95891-6

Matrix: Water | Lab File ID: MSMP4349.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 12:50

Sample wt/vol: 5(mL) | Date Analyzed: 04/18/2017 00:19

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	0.53	J Q	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U Q	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.6	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2504 | Lab Sample ID: 280-95891-6

Matrix: Water | Lab File ID: MSMP4349.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 12:50

Sample wt/vol: 5(mL) | Date Analyzed: 04/18/2017 00:19

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U Q	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.4	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		81-118
460-00-4	4-Bromofluorobenzene (Surr)	101		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	101		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4349.D
Lims ID: 280-95891-B-6
Client ID: 6MW2504
Sample Type: Client
Inject. Date: 18-Apr-2017 00:19:30 ALS Bottle#: 18 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-020
Misc. Info.: 280-95891-B-6
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:10:21 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 18:11:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.031				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.198				ND	
3 Chloromethane	50		3.310				ND	
118 Butadiene	39		3.450				ND	
4 Vinyl chloride	62	3.463	3.464	-0.001	95	14031	1.40	
5 Bromomethane	94	3.952	3.952	0.000	81	1854	0.5334	
6 Chloroethane	64		4.162				ND	
7 Trichlorofluoromethane	101		4.371				ND	
119 Dichlorofluoromethane	67		4.469				ND	
8 Ethyl ether	74		4.860				ND	
9 Ethanol	45		5.070				ND	
10 1,1-Dichloroethene	96		5.140				ND	
11 Carbon disulfide	76		5.167				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.195				ND	
13 Iodomethane	142		5.335				ND	
14 Acrolein	56		5.600				ND	
16 3-Chloro-1-propene	39		5.768				ND	
17 Isopropyl alcohol	45	5.796	5.810	-0.014	96	8195	25.3	
S 15 1,2-Dichloroethene, Total	96				0		1.62	
18 Methylene Chloride	84		5.908				ND	
19 Acetone	43		5.978				ND	
21 trans-1,2-Dichloroethene	96		6.103				ND	
20 Methyl acetate	74		6.117				ND	
22 Hexane	86		6.201				ND	
23 Methyl tert-butyl ether	73		6.229				ND	
24 2-Methyl-2-propanol	59		6.341				ND	
25 Acetonitrile	41		6.536				ND	
26 Isopropyl ether	45		6.662				ND	
27 2-Chloro-1,3-butadiene	53		6.788				ND	
28 1,1-Dichloroethane	63		6.816				ND	
29 Acrylonitrile	53		6.871				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.053				ND	
31 Vinyl acetate	43		7.067				ND	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	81	14729	1.62	
33 2,2-Dichloropropane	77		7.500				ND	
34 Chlorobromomethane	128		7.584				ND	
35 Cyclohexane	84		7.598				ND	
36 Chloroform	83		7.653				ND	
37 Ethyl acetate	45		7.765				ND	
38 Carbon tetrachloride	117		7.807				ND	
39 Tetrahydrofuran	71		7.821				ND	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	94	383483	50.4	
41 1,1,1-Trichloroethane	97		7.877				ND	
42 2-Butanone (MEK)	43		7.961				ND	
43 1,1-Dichloropropene	75		7.989				ND	
121 Isooctane	57		8.086				ND	
113 n-Heptane	43		8.170				ND	
45 Benzene	78		8.240				ND	
46 Propionitrile	54		8.268				ND	
47 Methacrylonitrile	41		8.282				ND	
48 Tert-amyl methyl ether	73		8.324				ND	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	342576	51.8	
44 Isobutyl alcohol	42		8.394				ND	
50 1,2-Dichloroethane	62		8.422				ND	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1525403	50.0	
53 Methylcyclohexane	55		8.785				ND	
52 Trichloroethene	95		8.785				ND	
122 1,4-Difluorobenzene	114		8.936				ND	
54 n-Butanol	56		9.036				ND	
55 Dibromomethane	93		9.190				ND	
120 Ethyl acrylate	55		9.246				ND	
56 1,2-Dichloropropane	63		9.274				ND	
57 Dichlorobromomethane	83		9.315				ND	
58 Methyl methacrylate	69		9.427				ND	
59 1,4-Dioxane	88		9.497				ND	
60 2-Chloroethyl vinyl ether	63		9.818				ND	
65 cis-1,3-Dichloropropene	75		9.888				ND	
$ 62 Toluene-d8 (Surr)	98	10.069	10.070	-0.001	92	1550353	50.7	
63 Toluene	92		10.112				ND	
64 2-Nitropropane	43		10.321				ND	
71 4-Methyl-2-pentanone (MIBK	43		10.433				ND	
66 Tetrachloroethene	164		10.461				ND	
61 trans-1,3-Dichloropropene	75		10.475				ND	
67 Ethyl methacrylate	69		10.586				ND	
68 1,1,2-Trichloroethane	83		10.628				ND	
69 Chlorodibromomethane	129		10.796				ND	
70 1,3-Dichloropropane	76		10.880				ND	
72 Ethylene Dibromide	107		11.033				ND	
116 n-Butyl acetate	43		11.061				ND	
73 2-Hexanone	43		11.187				ND	
75 1-Chlorohexane	91		11.438				ND	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	83	1244147	50.0	
78 Chlorobenzene	112		11.508				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
77 Ethylbenzene	91		11.508				ND	
79 1,1,1,2-Tetrachloroethane	131		11.550				ND	
S 74 1,3-Dichloropropene, Total	75		11.620				ND	
80 m-Xylene & p-Xylene	106		11.634				ND	
81 o-Xylene	106		12.039				ND	
82 Styrene	104		12.081				ND	
84 Bromoform	173		12.123				ND	
85 Isopropylbenzene	105		12.318				ND	
83 Pentachloroethane	167		12.372				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.598	-0.001	94	489555	50.5	
87 N-Propylbenzene	91		12.695				ND	
88 Bromobenzene	156		12.723				ND	
89 1,1,2,2-Tetrachloroethane	83		12.751				ND	
90 1,3,5-Trimethylbenzene	105		12.877				ND	
91 2-Chlorotoluene	91		12.877				ND	
92 1,2,3-Trichloropropane	110		12.905				ND	
93 trans-1,4-Dichloro-2-buten	53		12.933				ND	
94 Cyclohexanone	55		12.975				ND	
95 4-Chlorotoluene	91		13.030				ND	
96 tert-Butylbenzene	119		13.184				ND	
97 1,2,4-Trimethylbenzene	105		13.254				ND	
98 sec-Butylbenzene	105		13.352				ND	
99 4-Isopropyltoluene	119		13.477				ND	
100 1,3-Dichlorobenzene	146		13.589				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	94	544980	50.0	
102 1,4-Dichlorobenzene	146		13.673				ND	
117 1,2,3-Trimethylbenzene	105		13.673				ND	
103 n-Butylbenzene	134		13.896				ND	
114 Benzyl chloride	126		13.910				ND	
104 1,2-Dichlorobenzene	146		14.092				ND	
105 n-Nonyl Aldehyde	57		14.846				ND	
106 1,2-Dibromo-3-Chloropropan	157		14.874				ND	
107 1,3,5-Trichlorobenzene	180		14.902				ND	
108 Hexachlorobutadiene	225		15.489				ND	
109 1,2,4-Trichlorobenzene	180		15.544				ND	
110 Naphthalene	128		15.880				ND	
111 1,2,3-Trichlorobenzene	180		16.061				ND	
S 112 Xylenes, Total	106		16.500				ND	
S 115 Trihalomethanes, Total	1		0.000				ND	
127 2-Methylpentane	1		0.000				ND	
126 C6-C12	1		0.000				ND	
128 2-Pentanone	1		0.000				ND	
$ 123 BFB	95		4.382				ND	

Reagents:

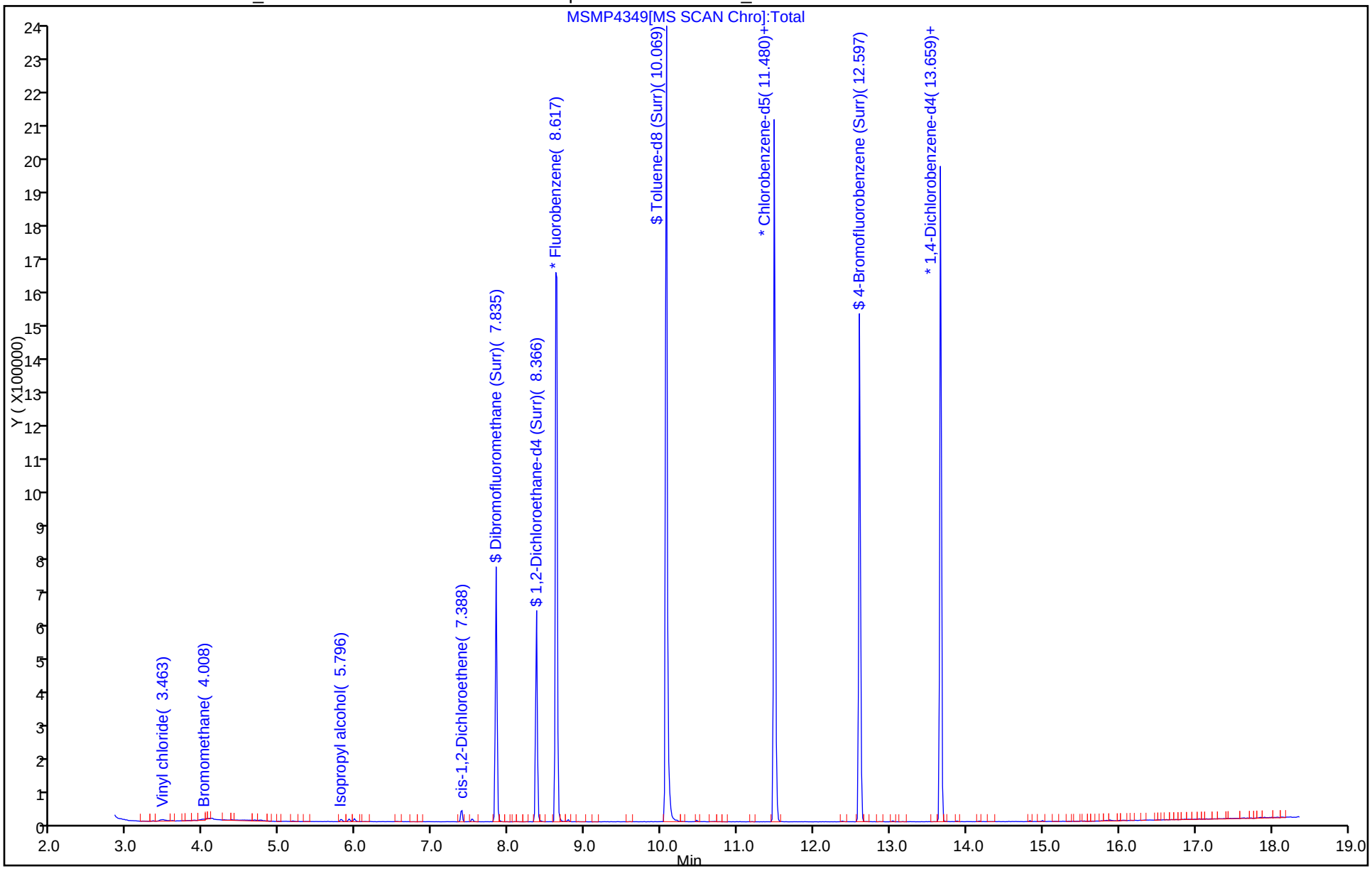
I.S. Working_00146	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 18:11:17 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4349.D

Injection Date:	18-Apr-2017 00:19:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	280-95891-B-6	Lab Sample ID:	160-95891-6	Worklist Smp#:	20
Client ID:	6MW2504				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4349.D
Lims ID: 280-95891-B-6
Client ID: 6MW2504
Sample Type: Client
Inject. Date: 18-Apr-2017 00:19:30 ALS Bottle#: 18 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-020
Misc. Info.: 280-95891-B-6
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:10:21 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 18:11:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 40 Dibromofluoromethane (Surr)	50.0	50.4	100.70
$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	51.8	103.69
$ 62 Toluene-d8 (Surr)	50.0	50.7	101.35
$ 86 4-Bromofluorobenzene (Surr)	50.0	50.5	101.09

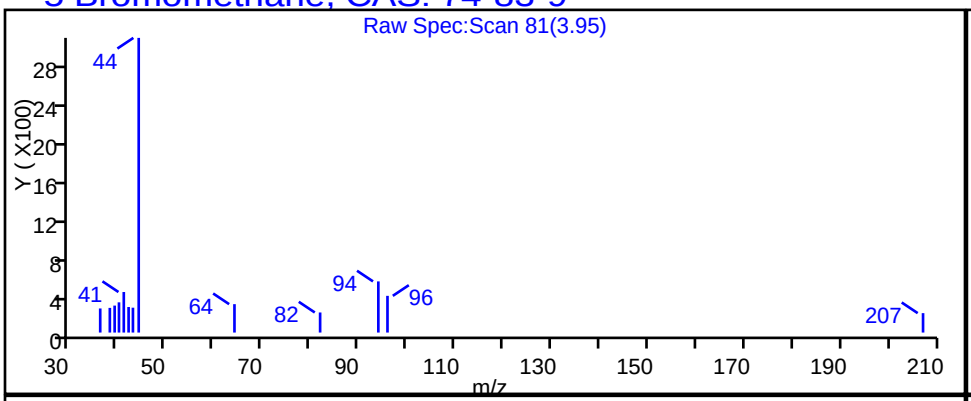
Report Date: 20-Apr-2017 18:11:17 Chrom Revision: 2.2 18-Apr-2017 07:43:58

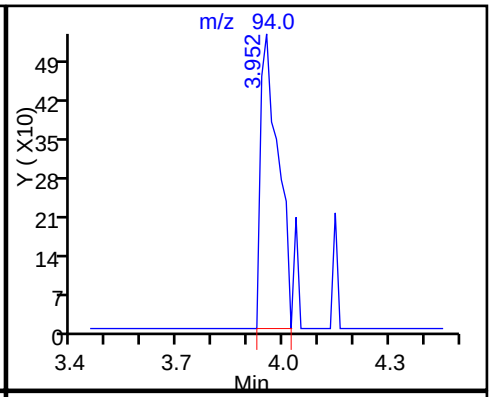
TestAmerica St. Louis

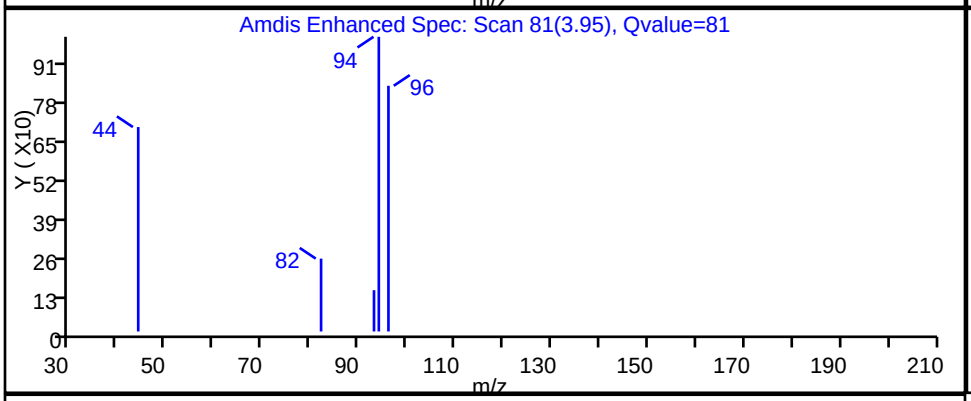
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4349.D

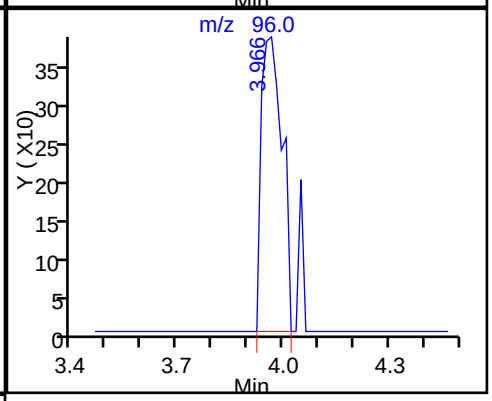
Injection Date:	18-Apr-2017 00:19:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-6	Lab Sample ID:	160-95891-6		
Client ID:	6MW2504				
Operator ID:	JDH	ALS Bottle#:	18	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

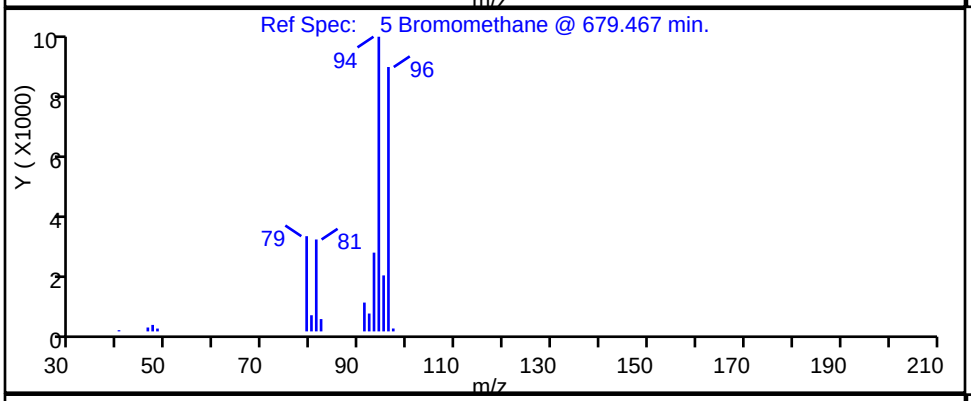
5 Bromomethane, CAS: 74-83-9

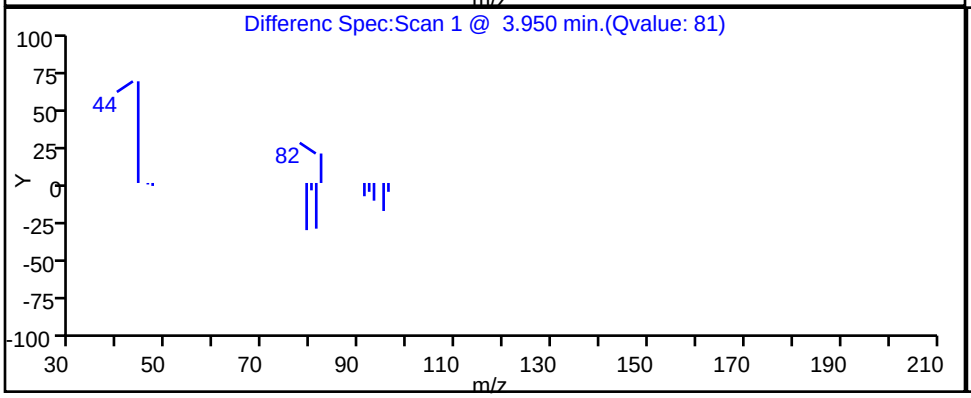


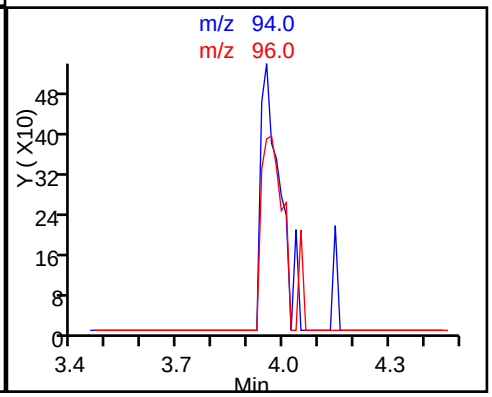












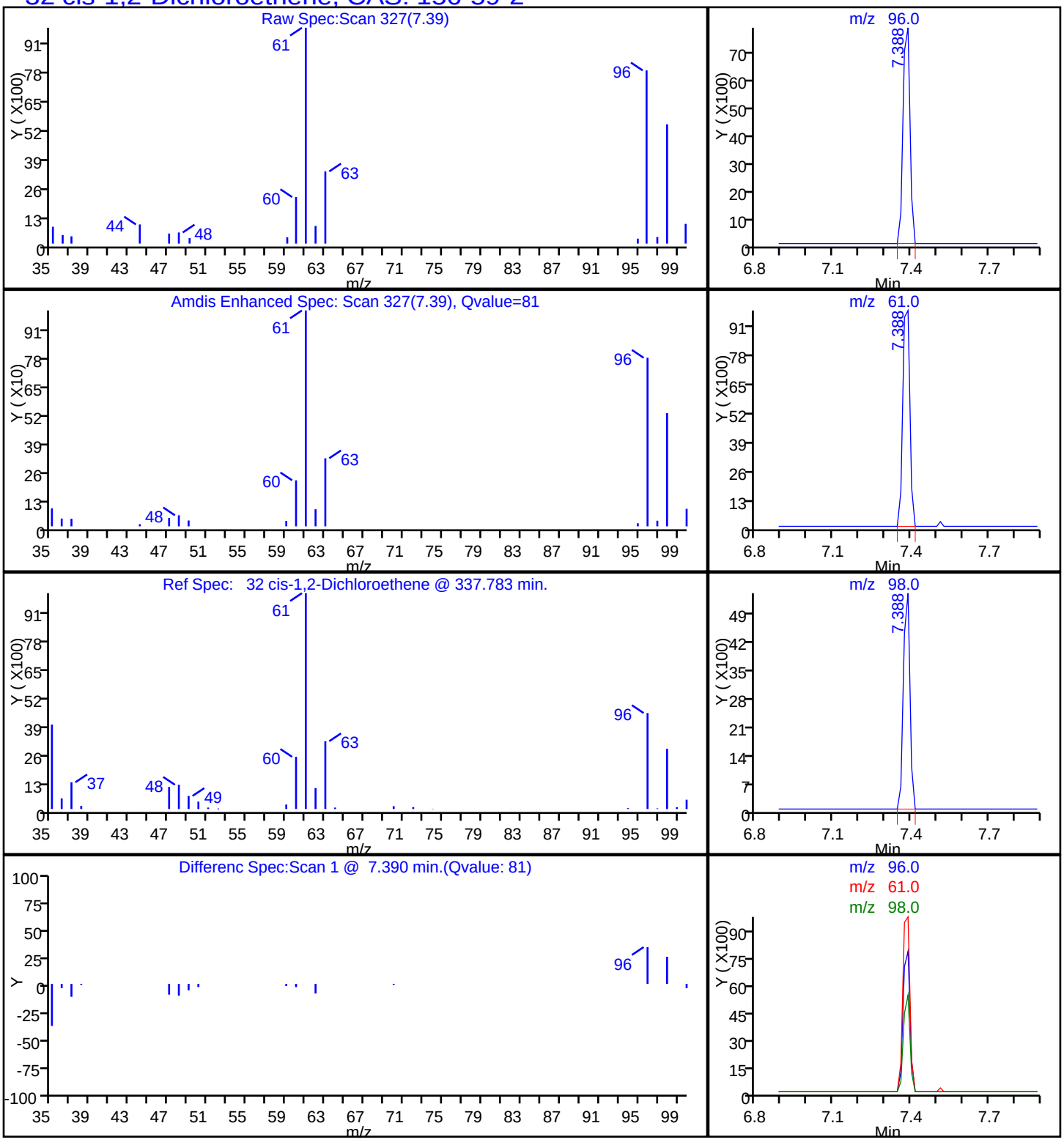
Report Date: 20-Apr-2017 18:11:17 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4349.D

Injection Date:	18-Apr-2017 00:19:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-6	Lab Sample ID:	160-95891-6		
Client ID:	6MW2504				
Operator ID:	JDH	ALS Bottle#:	18	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

32 cis-1,2-Dichloroethene, CAS: 156-59-2



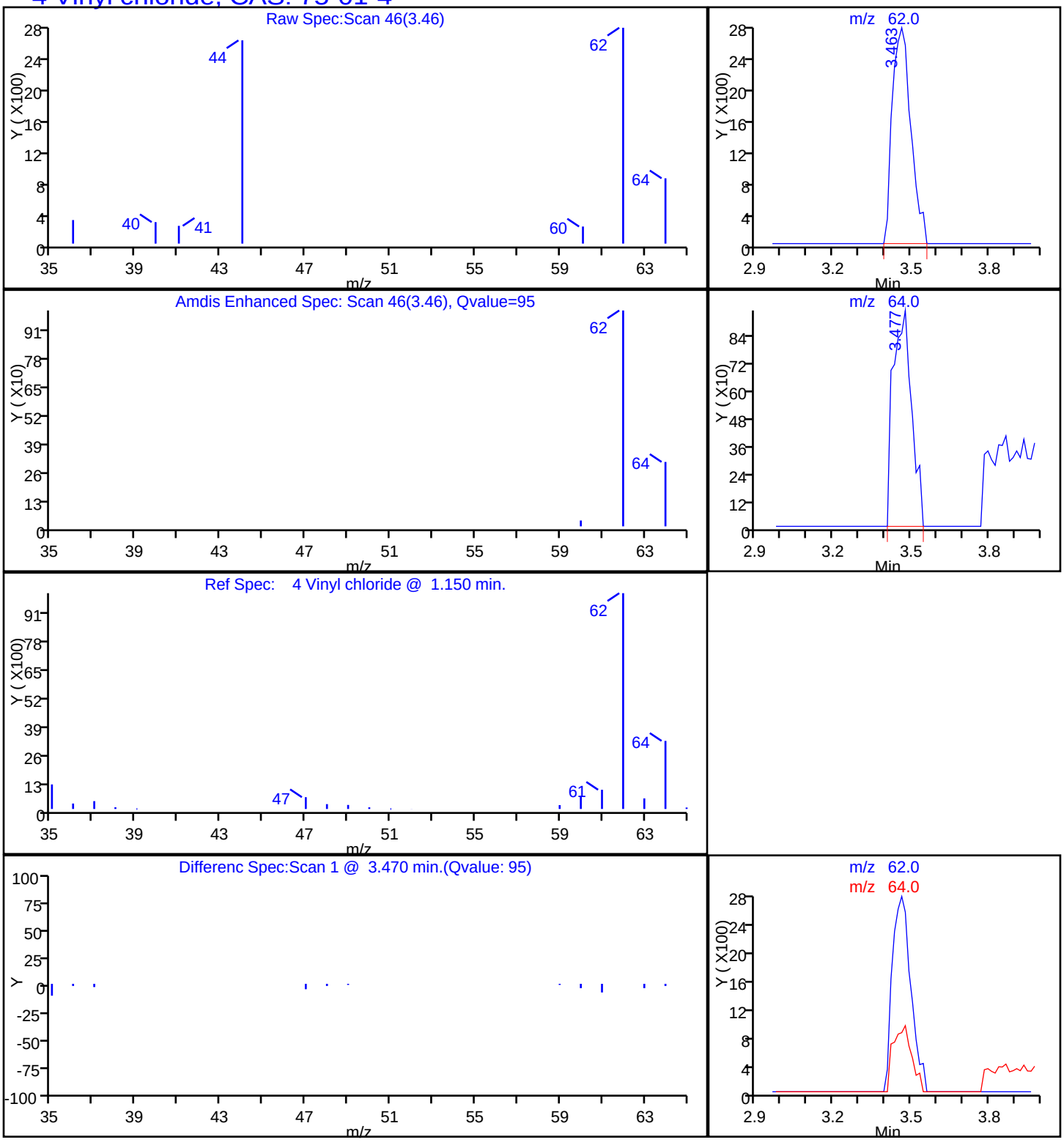
Report Date: 20-Apr-2017 18:11:17 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4349.D

Injection Date:	18-Apr-2017 00:19:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-6	Lab Sample ID:	160-95891-6		
Client ID:	6MW2504				
Operator ID:	JDH	ALS Bottle#:	18	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	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: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2604 | Lab Sample ID: 280-95891-7

Matrix: Water | Lab File ID: MSMP4350.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 13:40

Sample wt/vol: 5(mL) | Date Analyzed: 04/18/2017 00:44

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U Q	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U Q	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.8	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2604 | Lab Sample ID: 280-95891-7

Matrix: Water | Lab File ID: MSMP4350.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 13:40

Sample wt/vol: 5(mL) | Date Analyzed: 04/18/2017 00:44

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U Q	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	0.33	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	0.88	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		81-118
460-00-4	4-Bromofluorobenzene (Surr)	107		85-114
1868-53-7	Dibromofluoromethane (Surr)	107		80-119
2037-26-5	Toluene-d8 (Surr)	107		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4350.D
Lims ID: 280-95891-B-7
Client ID: 6MW2604
Sample Type: Client
Inject. Date: 18-Apr-2017 00:44:30 ALS Bottle#: 19 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-021
Misc. Info.: 280-95891-B-7
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:10:21 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 18:11:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.031				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.198				ND	
3 Chloromethane	50		3.310				ND	
118 Butadiene	39		3.450				ND	
4 Vinyl chloride	62	3.464	3.464	0.000	33	8750	0.8833	
5 Bromomethane	94		3.952				ND	
6 Chloroethane	64		4.162				ND	
7 Trichlorofluoromethane	101		4.371				ND	
119 Dichlorofluoromethane	67		4.469				ND	
8 Ethyl ether	74		4.860				ND	
9 Ethanol	45		5.070				ND	
10 1,1-Dichloroethene	96		5.140				ND	
11 Carbon disulfide	76		5.167				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.195				ND	
13 Iodomethane	142		5.335				ND	
14 Acrolein	56		5.600				ND	
16 3-Chloro-1-propene	39		5.768				ND	
17 Isopropyl alcohol	45	5.810	5.810	0.000	95	7173	22.4	
S 15 1,2-Dichloroethene, Total	96				0		1.76	
18 Methylene Chloride	84		5.908				ND	
19 Acetone	43		5.978				ND	
21 trans-1,2-Dichloroethene	96		6.103				ND	
20 Methyl acetate	74		6.117				ND	
22 Hexane	86		6.201				ND	
23 Methyl tert-butyl ether	73		6.229				ND	
24 2-Methyl-2-propanol	59		6.341				ND	
25 Acetonitrile	41		6.536				ND	
26 Isopropyl ether	45		6.662				ND	
27 2-Chloro-1,3-butadiene	53		6.788				ND	
28 1,1-Dichloroethane	63		6.816				ND	
29 Acrylonitrile	53		6.871				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.053				ND	
31 Vinyl acetate	43		7.067				ND	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	78	15799	1.76	
33 2,2-Dichloropropane	77		7.500				ND	
34 Chlorobromomethane	128		7.584				ND	
35 Cyclohexane	84		7.598				ND	
36 Chloroform	83		7.653				ND	
37 Ethyl acetate	45		7.765				ND	
38 Carbon tetrachloride	117		7.807				ND	
39 Tetrahydrofuran	71		7.821				ND	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	93	400887	53.4	
41 1,1,1-Trichloroethane	97		7.877				ND	
42 2-Butanone (MEK)	43		7.961				ND	
43 1,1-Dichloropropene	75		7.989				ND	
121 Isooctane	57		8.086				ND	
113 n-Heptane	43		8.170				ND	
45 Benzene	78		8.240				ND	
46 Propionitrile	54		8.268				ND	
47 Methacrylonitrile	41		8.282				ND	
48 Tert-amyl methyl ether	73		8.324				ND	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	367850	56.4	
44 Isobutyl alcohol	42		8.394				ND	
50 1,2-Dichloroethane	62		8.422				ND	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1504766	50.0	
53 Methylcyclohexane	55		8.785				ND	
52 Trichloroethene	95	8.785	8.785	0.000	87	2832	0.3279	
122 1,4-Difluorobenzene	114		8.936				ND	
54 n-Butanol	56		9.036				ND	
55 Dibromomethane	93		9.190				ND	
120 Ethyl acrylate	55		9.246				ND	
56 1,2-Dichloropropane	63		9.274				ND	
57 Dichlorobromomethane	83		9.315				ND	
58 Methyl methacrylate	69		9.427				ND	
59 1,4-Dioxane	88		9.497				ND	
60 2-Chloroethyl vinyl ether	63		9.818				ND	
65 cis-1,3-Dichloropropene	75		9.888				ND	
$ 62 Toluene-d8 (Surr)	98	10.070	10.070	0.000	92	1600439	53.5	
63 Toluene	92		10.112				ND	
64 2-Nitropropane	43		10.321				ND	
71 4-Methyl-2-pentanone (MIBK	43		10.433				ND	
66 Tetrachloroethene	164		10.461				ND	
61 trans-1,3-Dichloropropene	75		10.475				ND	
67 Ethyl methacrylate	69		10.586				ND	
68 1,1,2-Trichloroethane	83		10.628				ND	
69 Chlorodibromomethane	129		10.796				ND	
70 1,3-Dichloropropane	76		10.880				ND	
72 Ethylene Dibromide	107		11.033				ND	
116 n-Butyl acetate	43		11.061				ND	
73 2-Hexanone	43		11.187				ND	
75 1-Chlorohexane	91		11.438				ND	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	83	1217362	50.0	
78 Chlorobenzene	112		11.508				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
77 Ethylbenzene	91		11.508				ND	
79 1,1,1,2-Tetrachloroethane	131		11.550				ND	
S 74 1,3-Dichloropropene, Total	75		11.620				ND	
80 m-Xylene & p-Xylene	106		11.634				ND	
81 o-Xylene	106		12.039				ND	
82 Styrene	104		12.081				ND	
84 Bromoform	173		12.123				ND	
85 Isopropylbenzene	105		12.318				ND	
83 Pentachloroethane	167		12.372				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.598	-0.001	94	502534	53.7	
87 N-Propylbenzene	91		12.695				ND	
88 Bromobenzene	156		12.723				ND	
89 1,1,2,2-Tetrachloroethane	83		12.751				ND	
90 1,3,5-Trimethylbenzene	105		12.877				ND	
91 2-Chlorotoluene	91		12.877				ND	
92 1,2,3-Trichloropropane	110		12.905				ND	
93 trans-1,4-Dichloro-2-buten	53		12.933				ND	
94 Cyclohexanone	55		12.975				ND	
95 4-Chlorotoluene	91		13.030				ND	
96 tert-Butylbenzene	119		13.184				ND	
97 1,2,4-Trimethylbenzene	105		13.254				ND	
98 sec-Butylbenzene	105		13.352				ND	
99 4-Isopropyltoluene	119		13.477				ND	
100 1,3-Dichlorobenzene	146		13.589				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	94	526828	50.0	
102 1,4-Dichlorobenzene	146		13.673				ND	
117 1,2,3-Trimethylbenzene	105		13.673				ND	
103 n-Butylbenzene	134		13.896				ND	
114 Benzyl chloride	126		13.910				ND	
104 1,2-Dichlorobenzene	146		14.092				ND	
105 n-Nonyl Aldehyde	57		14.846				ND	
106 1,2-Dibromo-3-Chloropropan	157		14.874				ND	
107 1,3,5-Trichlorobenzene	180		14.902				ND	
108 Hexachlorobutadiene	225		15.489				ND	
109 1,2,4-Trichlorobenzene	180		15.544				ND	
110 Naphthalene	128		15.880				ND	
111 1,2,3-Trichlorobenzene	180		16.061				ND	
S 112 Xylenes, Total	106		16.500				ND	
S 115 Trihalomethanes, Total	1		0.000				ND	
127 2-Methylpentane	1		0.000				ND	
126 C6-C12	1		0.000				ND	
128 2-Pentanone	1		0.000				ND	
$ 123 BFB	95		4.382				ND	

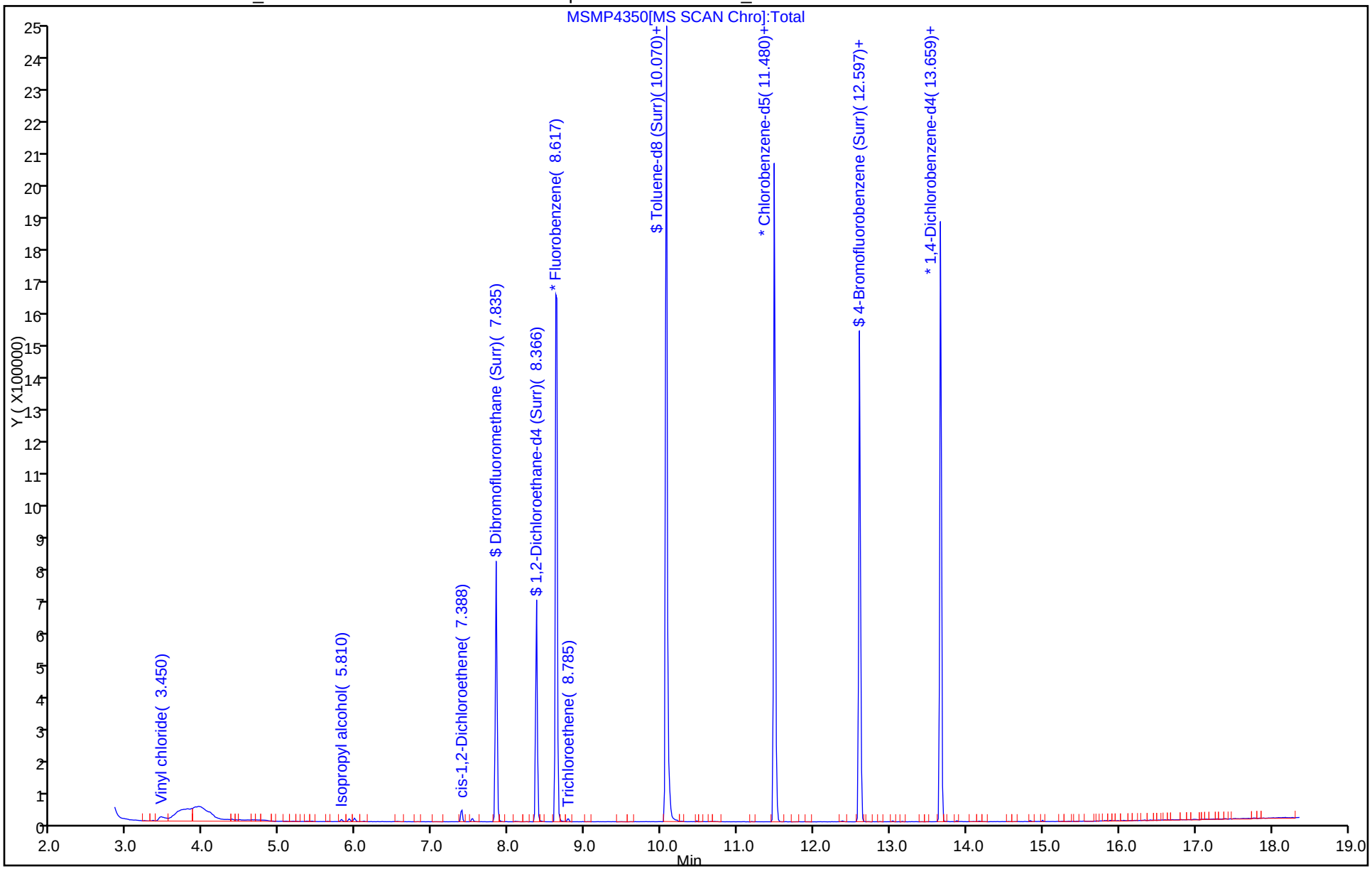
Reagents:

I.S. Working_00146	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 18:11:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File:	\\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4350.D				
Injection Date:	18-Apr-2017 00:44:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	280-95891-B-7	Lab Sample ID:	160-95891-7	Worklist Smp#:	21
Client ID:	6MW2604				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4350.D
Lims ID: 280-95891-B-7
Client ID: 6MW2604
Sample Type: Client
Inject. Date: 18-Apr-2017 00:44:30 ALS Bottle#: 19 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-021
Misc. Info.: 280-95891-B-7
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 18:10:21 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 18:11:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 40 Dibromofluoromethane (Surr)	50.0	53.4	106.72
$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	56.4	112.86
$ 62 Toluene-d8 (Surr)	50.0	53.5	106.93
$ 86 4-Bromofluorobenzene (Surr)	50.0	53.7	107.34

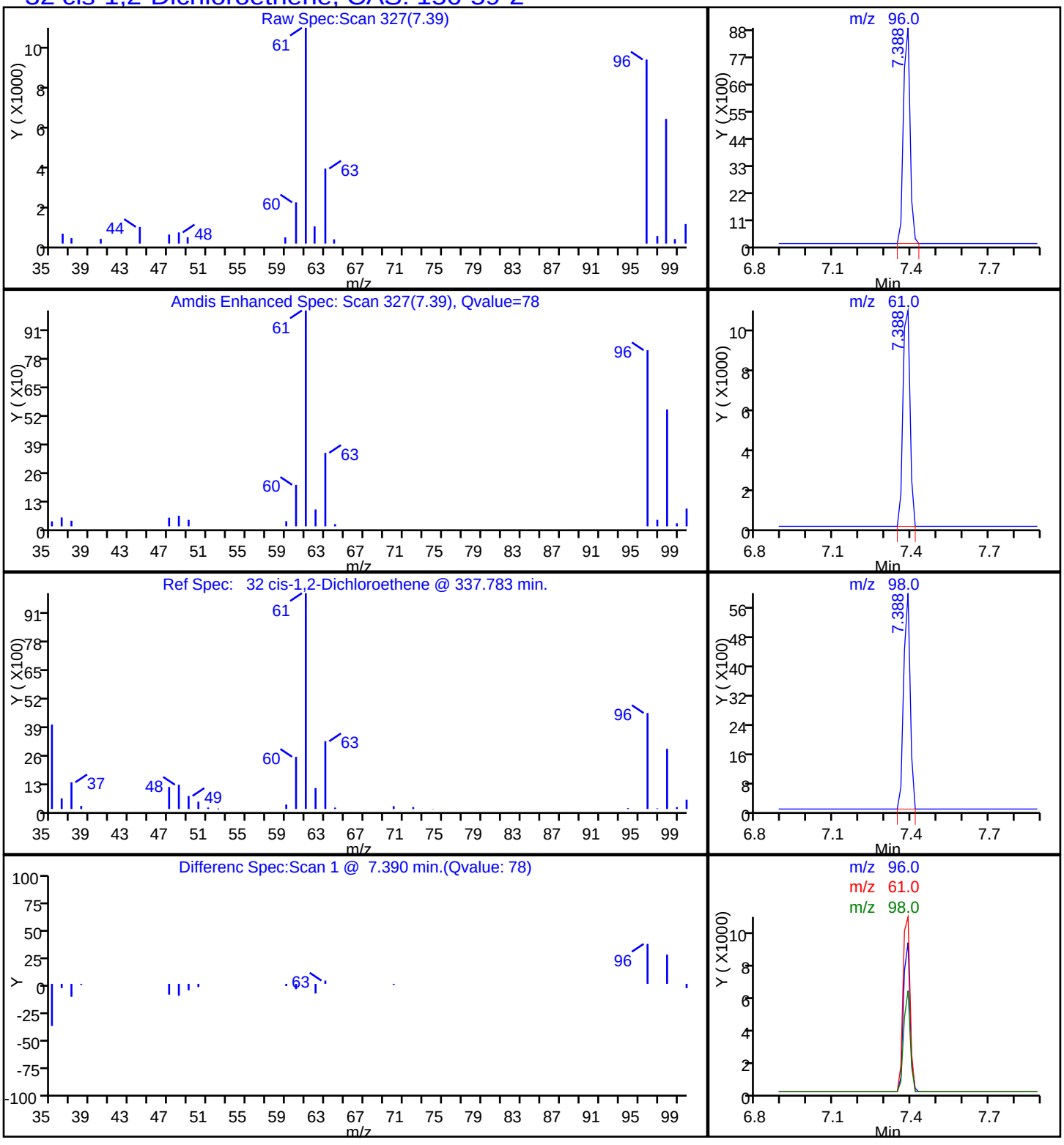
Report Date: 20-Apr-2017 18:11:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4350.D

Injection Date:	18-Apr-2017 00:44:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-7	Lab Sample ID:	160-95891-7		
Client ID:	6MW2604				
Operator ID:	JDH	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

32 cis-1,2-Dichloroethene, CAS: 156-59-2



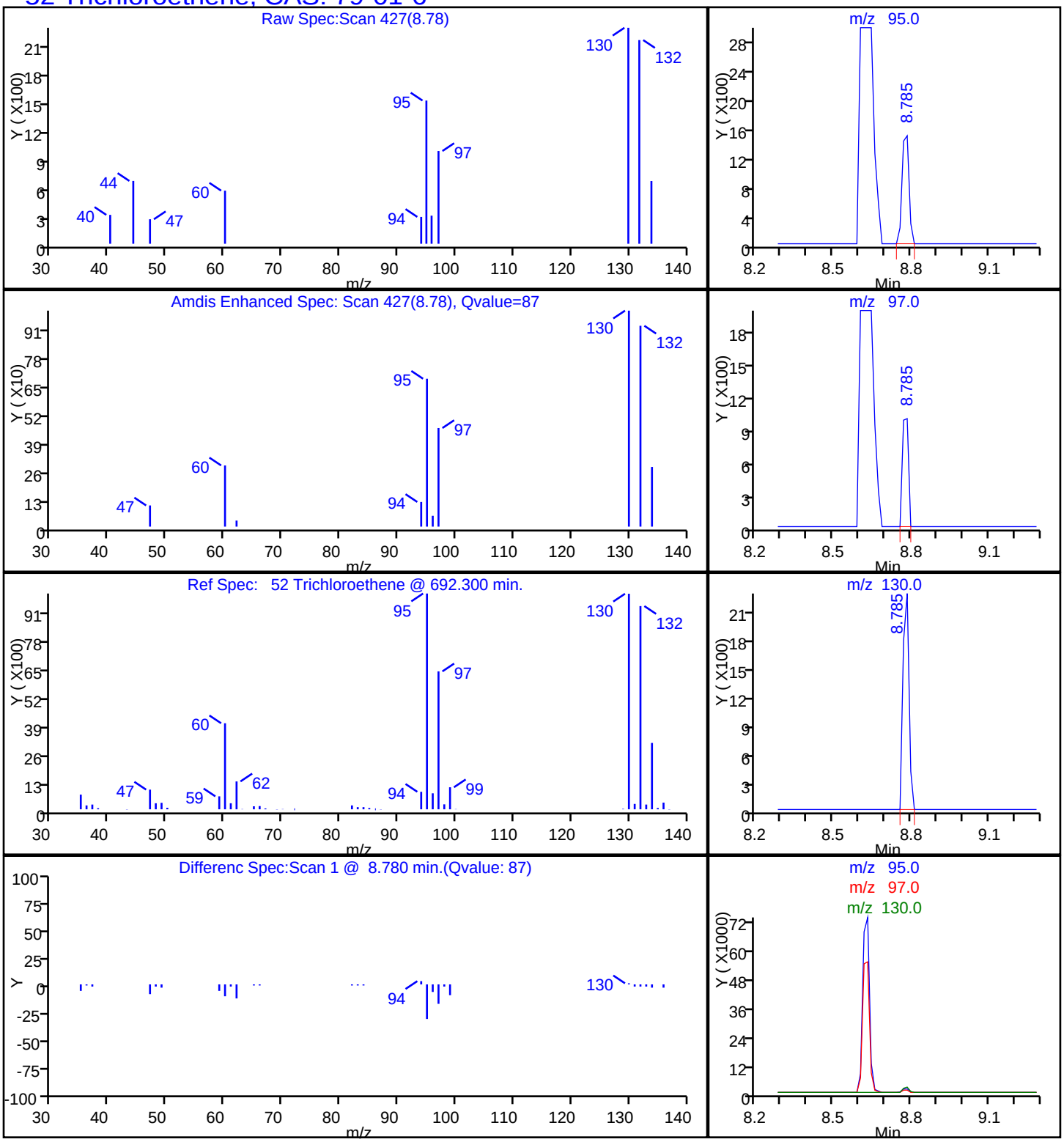
Report Date: 20-Apr-2017 18:11:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4350.D

Injection Date:	18-Apr-2017 00:44:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-7	Lab Sample ID:	160-95891-7		
Client ID:	6MW2604				
Operator ID:	JDH	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

52 Trichloroethene, CAS: 79-01-6



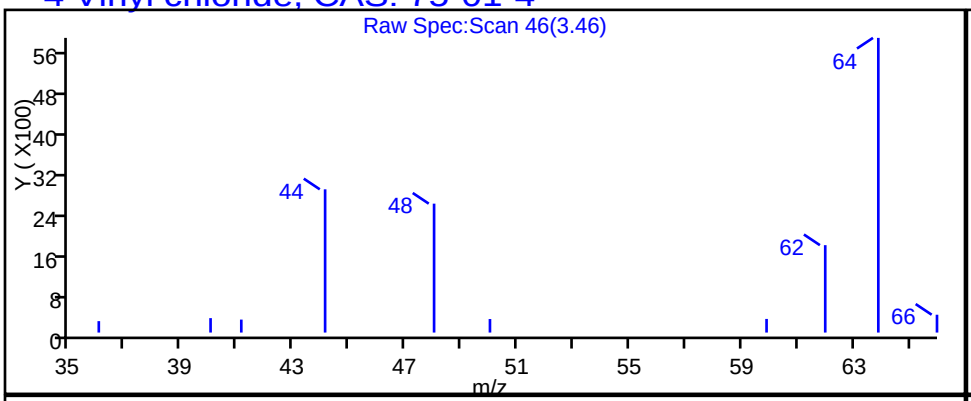
Report Date: 20-Apr-2017 18:11:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

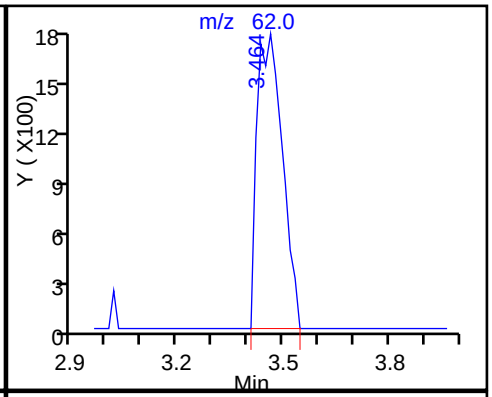
TestAmerica St. Louis

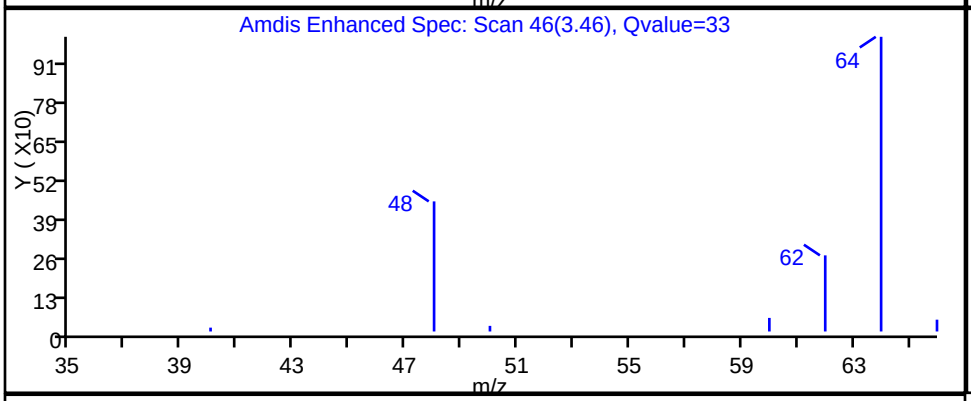
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4350.D

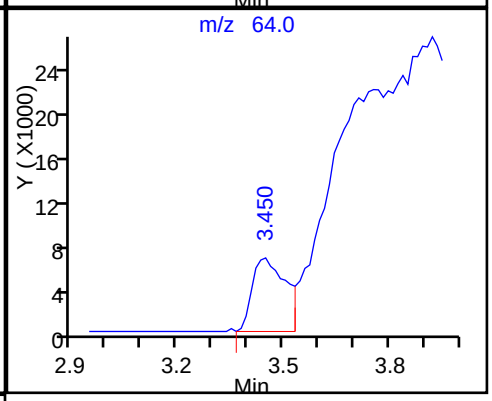
Injection Date:	18-Apr-2017 00:44:30	Instrument ID:	VMSM		
Lims ID:	280-95891-B-7	Lab Sample ID:	160-95891-7		
Client ID:	6MW2604				
Operator ID:	JDH	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

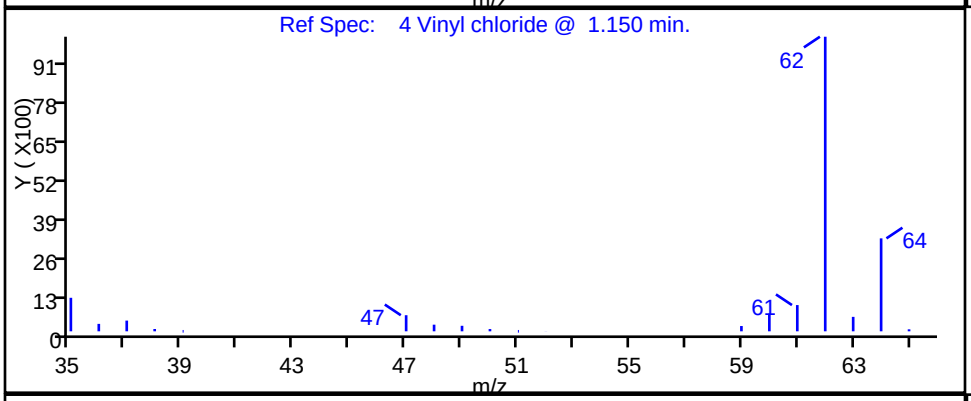
4 Vinyl chloride, CAS: 75-01-4

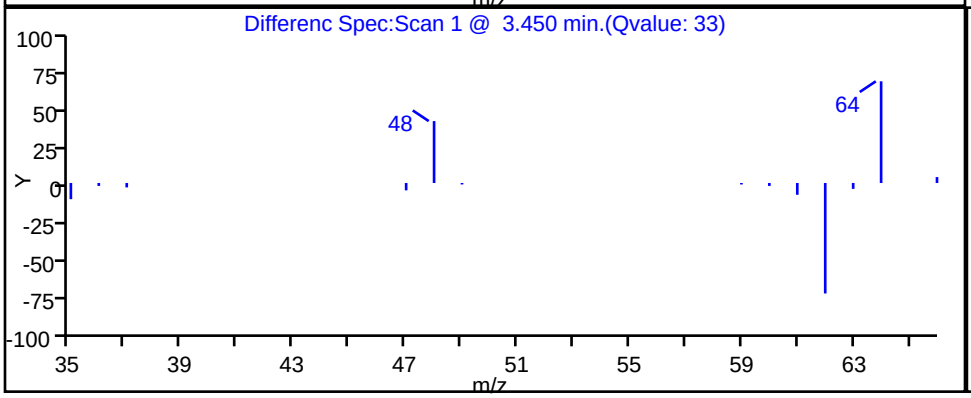


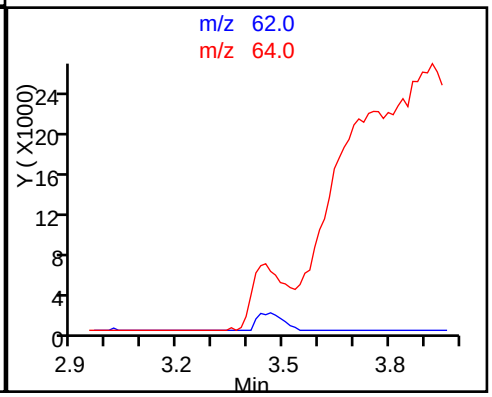












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: TB05 | Lab Sample ID: 280-95891-8

Matrix: Water | Lab File ID: MSMP4339.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 20:05

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U Q	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U Q	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.0	U	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: TB05 | Lab Sample ID: 280-95891-8

Matrix: Water | Lab File ID: MSMP4339.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 20:05

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U Q	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	2.1	J	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		81-118
460-00-4	4-Bromofluorobenzene (Surr)	102		85-114
1868-53-7	Dibromofluoromethane (Surr)	96		80-119
2037-26-5	Toluene-d8 (Surr)	101		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4339.D
Lims ID: 280-95891-A-8
Client ID: TB05
Sample Type: Client
Inject. Date: 17-Apr-2017 20:05:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-010
Misc. Info.: 280-95891-A-8
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 17:27:05 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 17:27:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.030				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.198				ND	
3 Chloromethane	50		3.324				ND	
118 Butadiene	39		3.463				ND	
4 Vinyl chloride	62		3.463				ND	
5 Bromomethane	94		3.966				ND	
6 Chloroethane	64		4.148				ND	
7 Trichlorofluoromethane	101		4.371				ND	
119 Dichlorofluoromethane	67		4.469				ND	
8 Ethyl ether	74		4.860				ND	
9 Ethanol	45		5.070				ND	
10 1,1-Dichloroethene	96		5.139				ND	
11 Carbon disulfide	76		5.167				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.195				ND	
13 Iodomethane	142		5.335				ND	
14 Acrolein	56		5.600				ND	
16 3-Chloro-1-propene	39		5.768				ND	
17 Isopropyl alcohol	45	5.810	5.796	0.014	21	1094	3.09	
S 15 1,2-Dichloroethene, Total	96		5.816				ND	
18 Methylene Chloride	84	5.908	5.907	0.001	96	17790	2.13	
19 Acetone	43		5.977				ND	
21 trans-1,2-Dichloroethene	96		6.103				ND	
20 Methyl acetate	74		6.117				ND	
22 Hexane	86		6.201				ND	
23 Methyl tert-butyl ether	73		6.229				ND	
24 2-Methyl-2-propanol	59		6.340				ND	
25 Acetonitrile	41		6.536				ND	
26 Isopropyl ether	45		6.662				ND	
27 2-Chloro-1,3-butadiene	53		6.787				ND	
28 1,1-Dichloroethane	63		6.815				ND	
29 Acrylonitrile	53		6.871				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.053				ND	
31 Vinyl acetate	43		7.067				ND	
32 cis-1,2-Dichloroethene	96		7.388				ND	
33 2,2-Dichloropropane	77		7.500				ND	
34 Chlorobromomethane	128		7.583				ND	
35 Cyclohexane	84		7.597				ND	
36 Chloroform	83		7.653				ND	
37 Ethyl acetate	45		7.765				ND	
38 Carbon tetrachloride	117		7.807				ND	
39 Tetrahydrofuran	71		7.821				ND	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	94	397161		47.8
41 1,1,1-Trichloroethane	97		7.877				ND	
42 2-Butanone (MEK)	43		7.961				ND	
43 1,1-Dichloropropene	75		7.988				ND	
121 Isooctane	57		8.086				ND	
113 n-Heptane	43		8.170				ND	
45 Benzene	78		8.240				ND	
46 Propionitrile	54		8.268				ND	
47 Methacrylonitrile	41		8.282				ND	
48 Tert-amyl methyl ether	73		8.324				ND	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	357730		49.6
44 Isobutyl alcohol	42		8.393				ND	
50 1,2-Dichloroethane	62		8.421				ND	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1665587		50.0
53 Methylcyclohexane	55		8.785				ND	
52 Trichloroethene	95		8.785				ND	
122 1,4-Difluorobenzene	114		8.936				ND	
54 n-Butanol	56		9.036				ND	
55 Dibromomethane	93		9.190				ND	
120 Ethyl acrylate	55		9.245				ND	
56 1,2-Dichloropropane	63		9.273				ND	
57 Dichlorobromomethane	83		9.315				ND	
58 Methyl methacrylate	69		9.427				ND	
59 1,4-Dioxane	88		9.511				ND	
60 2-Chloroethyl vinyl ether	63		9.818				ND	
65 cis-1,3-Dichloropropene	75		9.888				ND	
$ 62 Toluene-d8 (Surr)	98	10.070	10.069	0.001	92	1661734		50.5
63 Toluene	92		10.111				ND	
64 2-Nitropropane	43		10.321				ND	
71 4-Methyl-2-pentanone (MIBK	43		10.433				ND	
66 Tetrachloroethene	164		10.460				ND	
61 trans-1,3-Dichloropropene	75		10.474				ND	
67 Ethyl methacrylate	69		10.586				ND	
68 1,1,2-Trichloroethane	83		10.628				ND	
69 Chlorodibromomethane	129		10.796				ND	
70 1,3-Dichloropropane	76		10.879				ND	
72 Ethylene Dibromide	107		11.033				ND	
116 n-Butyl acetate	43		11.061				ND	
73 2-Hexanone	43		11.187				ND	
75 1-Chlorohexane	91		11.438				ND	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	83	1338656		50.0
78 Chlorobenzene	112		11.508				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
77 Ethylbenzene	91		11.508				ND	
79 1,1,1,2-Tetrachloroethane	131		11.550				ND	
S 74 1,3-Dichloropropene, Total	75		11.620				ND	
80 m-Xylene & p-Xylene	106		11.634				ND	
81 o-Xylene	106		12.039				ND	
82 Styrene	104		12.081				ND	
84 Bromoform	173		12.136				ND	
85 Isopropylbenzene	105		12.318				ND	
83 Pentachloroethane	167		12.372				ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.597	0.000	94	512916		50.8
87 N-Propylbenzene	91		12.695				ND	
88 Bromobenzene	156		12.723				ND	
89 1,1,2,2-Tetrachloroethane	83		12.751				ND	
90 1,3,5-Trimethylbenzene	105		12.877				ND	
91 2-Chlorotoluene	91		12.877				ND	
92 1,2,3-Trichloropropane	110		12.905				ND	
93 trans-1,4-Dichloro-2-buten	53		12.933				ND	
94 Cyclohexanone	55		12.974				ND	
95 4-Chlorotoluene	91		13.030				ND	
96 tert-Butylbenzene	119		13.184				ND	
97 1,2,4-Trimethylbenzene	105		13.254				ND	
98 sec-Butylbenzene	105		13.352				ND	
99 4-Isopropyltoluene	119		13.477				ND	
100 1,3-Dichlorobenzene	146		13.603				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	94	568590		50.0
102 1,4-Dichlorobenzene	146		13.673				ND	
117 1,2,3-Trimethylbenzene	105		13.673				ND	
103 n-Butylbenzene	134		13.896				ND	
114 Benzyl chloride	126		13.910				ND	
104 1,2-Dichlorobenzene	146		14.092				ND	
105 n-Nonyl Aldehyde	57	14.832	14.846	-0.014	30	945		1.51
106 1,2-Dibromo-3-Chloropropan	157		14.874				ND	
107 1,3,5-Trichlorobenzene	180		14.902				ND	
108 Hexachlorobutadiene	225		15.488				ND	
109 1,2,4-Trichlorobenzene	180		15.544				ND	
110 Naphthalene	128		15.879				ND	
111 1,2,3-Trichlorobenzene	180		16.075				ND	
S 112 Xylenes, Total	106		16.500				ND	
S 115 Trihalomethanes, Total	1		0.000				ND	
127 2-Methylpentane	1		0.000				ND	
126 C6-C12	1		0.000				ND	
128 2-Pentanone	1		0.000				ND	
$ 123 BFB	95		4.382				ND	

Reagents:

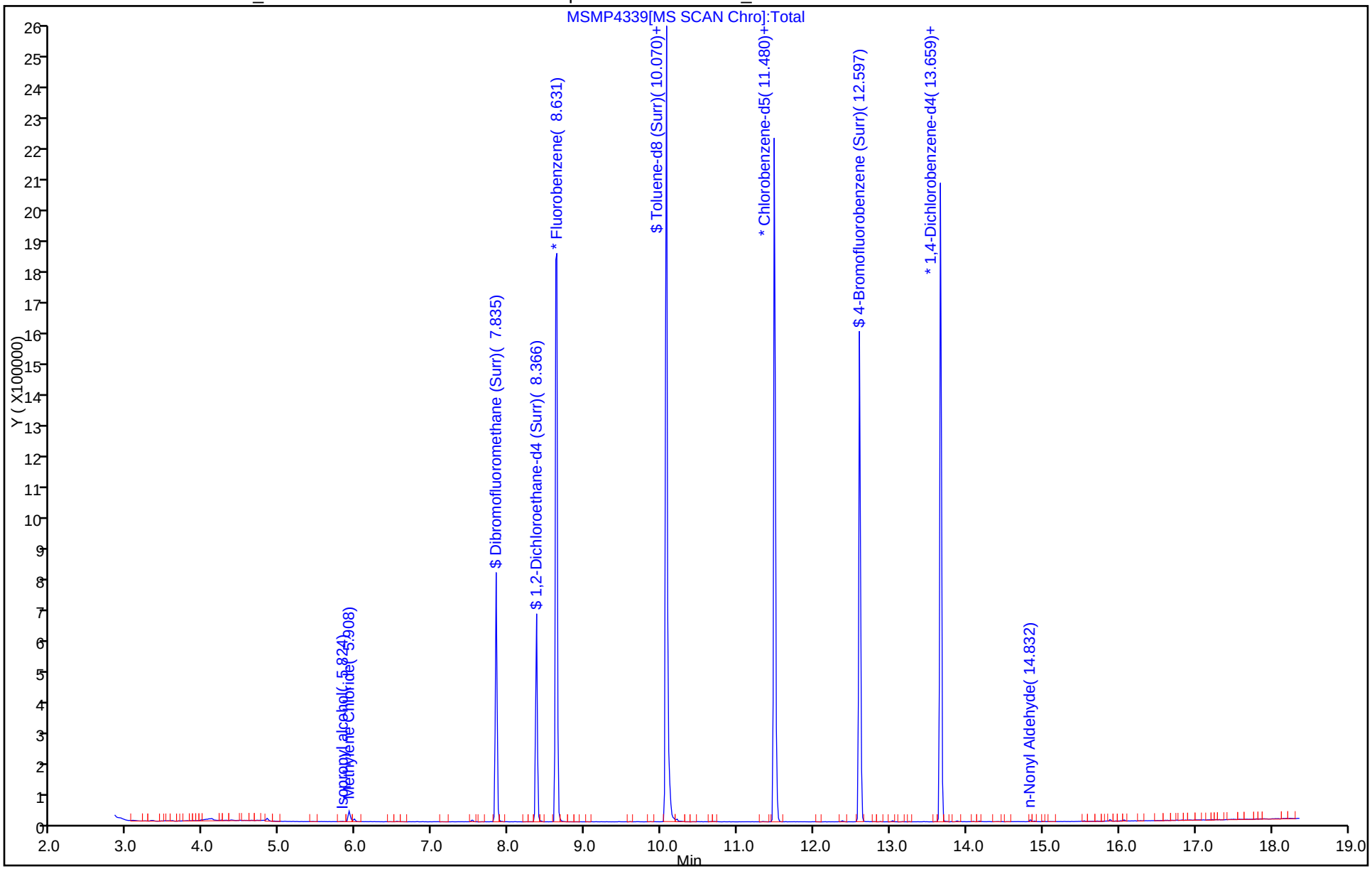
I.S. Working_00146	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 17:27:06 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4339.D

Injection Date:	17-Apr-2017 20:05:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	280-95891-A-8	Lab Sample ID:	160-95891-8	Worklist Smp#:	10
Client ID:	TB05				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4339.D
Lims ID: 280-95891-A-8
Client ID: TB05
Sample Type: Client
Inject. Date: 17-Apr-2017 20:05:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-010
Misc. Info.: 280-95891-A-8
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 17:27:05 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 17:27:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 40 Dibromofluoromethane (Surr)	50.0	47.8	95.52
$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	49.6	99.16
$ 62 Toluene-d8 (Surr)	50.0	50.5	100.97
$ 86 4-Bromofluorobenzene (Surr)	50.0	50.8	101.52

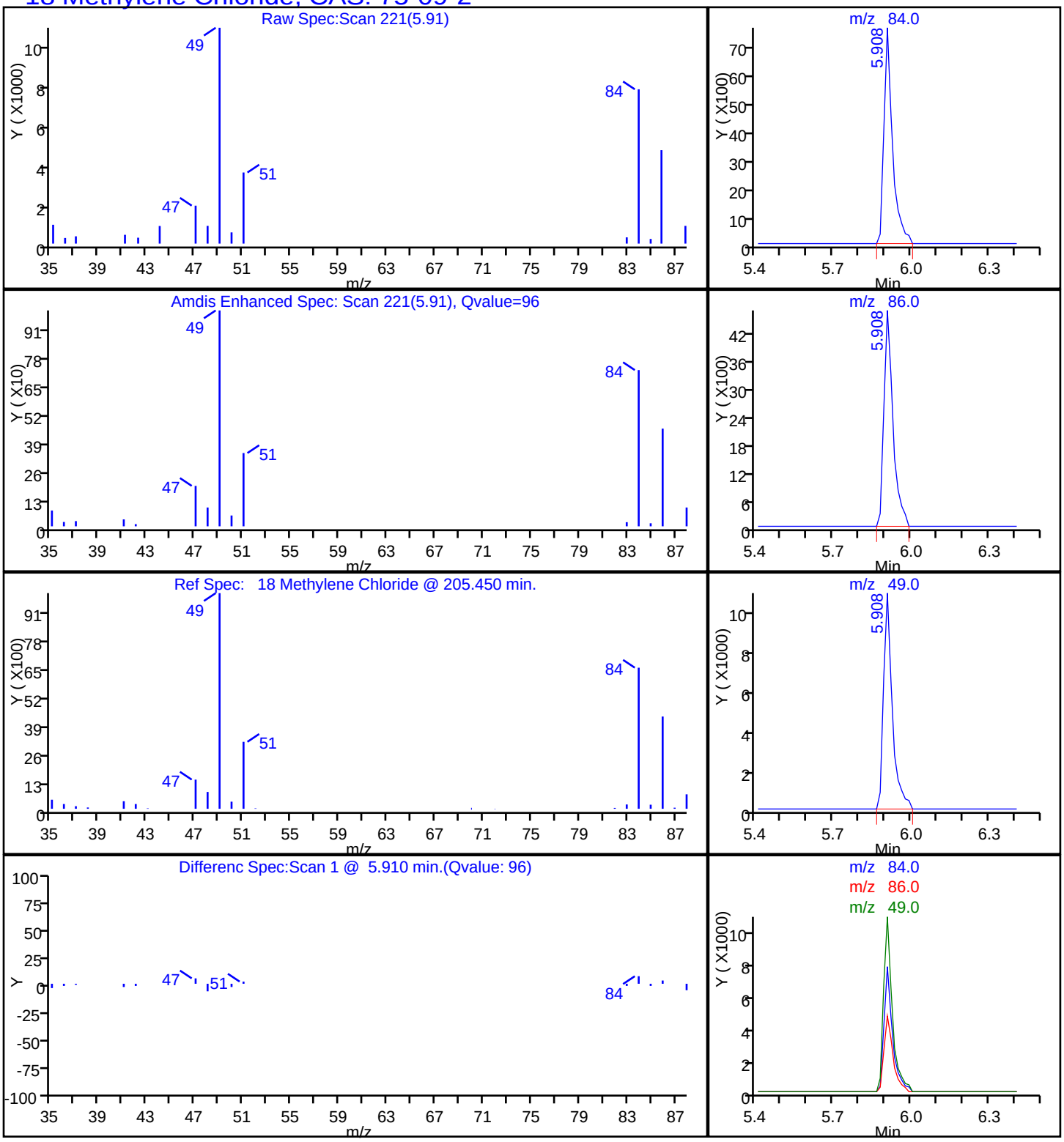
Report Date: 20-Apr-2017 17:27:06 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4339.D

Injection Date:	17-Apr-2017 20:05:30	Instrument ID:	VMSM		
Lims ID:	280-95891-A-8	Lab Sample ID:	160-95891-8		
Client ID:	TB05				
Operator ID:	JDH	ALS Bottle#:	8	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

18 Methylene Chloride, CAS: 75-09-2



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1 Analy Batch No.: 296453

SDG No.:

Instrument ID: VMSM GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/07/2017 21:59 Calibration End Date: 03/08/2017 00:57 Calibration ID: 12593

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-296453/3	MICL3849.D
Level 2	IC 160-296453/4	MICL3850.D
Level 3	IC 160-296453/5	MICL3851.D
Level 4	IC 160-296453/6	MICL3852.D
Level 5	IC 160-296453/7	MICL3853.D
Level 6	ICIS 160-296453/8	MICL3854.D
Level 7	IC 160-296453/9	MICL3855.D
Level 8	IC 160-296453/10	MICL3856.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	+++++ 0.2940	+++++ 0.2722	0.2917 0.2716	0.2889	0.2742	Ave		0.2821			0.1000	3.7		15.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 0.2155	+++++ 0.1989	0.2036 0.1985	0.2107	0.2037	Ave		0.2051			0.0100	3.3		15.0			
Chloromethane	+++++ 0.3770	+++++ 0.3526	0.3865 0.3505	0.3796	0.3589	Ave		0.3675			0.1000	4.2		15.0			
Butadiene	+++++ 0.3749	+++++ 0.3546	0.3246 0.3333	0.3353	0.3440	Ave		0.3444			0.0100	5.2		15.0			
Vinyl chloride	0.3487 0.3452	0.3303 0.3291	0.3249 0.3248	0.3161	0.3141	Ave		0.3291			0.1000	3.8		15.0			
Bromomethane	+++++ 0.1148	+++++ 0.1248	0.1009 0.1394	0.0989	0.1049	Ave		0.1139			0.1000	13.9		15.0			
Chloroethane	+++++ 0.1523	+++++ 0.1263	0.1807 0.1769	0.1777	0.1782	Qua	1.2133	0.0795	0.0004519	*	0.1000				0.9960		0.9900
Trichlorofluoromethane	+++++ 0.4124	+++++ 0.3819	0.4048 0.4015	0.3959	0.4035	Ave		0.4000			0.1000	2.6		15.0			
Dichlorofluoromethane	+++++ 0.4098	+++++ 0.3832	0.3858 0.3864	0.3951	0.3839	Ave		0.3907			0.0100	2.6		15.0			
Ethyl ether	+++++ 0.1354	+++++ 0.1317	0.1264 0.1313	0.1308	0.1335	Ave		0.1315			0.0100	2.3		15.0			
Ethanol	+++++ 0.0020	+++++ 0.0019	0.0021 0.0021	0.0021	0.0021	Ave		0.0020		*	0.0100	4.2		15.0			
1,1-Dichloroethene	+++++ 0.2729	+++++ 0.2638	0.2583 0.2634	0.2564	0.2576	Ave		0.2621			0.1000	2.3		15.0			
Carbon disulfide	+++++ 0.9131	+++++ 0.8662	0.8506 0.8040	0.8620	0.8773	Ave		0.8622			0.1000	4.1		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2984	+++++ 0.2879	0.2831 0.2784	0.2800	0.2825	Ave		0.2850			0.1000	2.6		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: TestAmerica St. Louis Job No.: 280-95891-1 Analy Batch No.: 296453

SDG No.:

Instrument ID: VMSM GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/07/2017 21:59 Calibration End Date: 03/08/2017 00:57 Calibration ID: 12593

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	+++++ 0.2237	+++++ 0.2583	0.1133 0.2766	0.1337	0.1659	Qua	-1.215	0.2486	0.0001725		0.0100				1.0000		0.9900
Acrolein	+++++ 0.0302	+++++ 0.0286	0.0249 0.0296	0.0271	0.0290	Ave		0.0282			0.0010	6.9		15.0			
3-Chloro-1-propene	+++++ 0.2971	+++++ 0.2868	0.2805 0.2723	0.2764	0.2895	Ave		0.2838			0.0100	3.2		15.0			
Isopropyl alcohol	+++++ 0.0107	+++++ 0.0103	0.0097 0.0115	0.0104	0.0111	Ave		0.0106			0.0100	5.9		15.0			
Methylene Chloride	+++++ 0.2572	+++++ 0.2468	0.2503 0.2494	0.2492	0.2505	Ave		0.2506			0.1000	1.4		15.0			
Acetone	+++++ 0.0474	+++++ 0.0443	0.0634 0.0478	0.0569	0.0557	Ave		0.0526		*	0.1000	13.8		15.0			
trans-1,2-Dichloroethene	+++++ 0.2954	0.2957 0.2861	0.2923 0.2746	0.2842	0.2877	Ave		0.2880			0.1000	2.6		15.0			
Methyl acetate	+++++ 0.0249	+++++ 0.0246	0.0233 0.0250	0.0244	0.0254	Ave		0.0246		*	0.1000	2.9		15.0			
Hexane	+++++ 0.0962	+++++ 0.0895	0.0919 0.0949	0.0918	0.0920	Ave		0.0927			0.0100	2.6		15.0			
Methyl tert-butyl ether	+++++ 0.5696	+++++ 0.5462	0.5217 0.5104	0.5475	0.5608	Ave		0.5427			0.1000	4.2		15.0			
2-Methyl-2-propanol	+++++ 0.0174	+++++ 0.0172	0.0157 0.0190	0.0170	0.0177	Ave		0.0173			0.0100	6.2		15.0			
Acetonitrile	+++++ 0.0205	+++++ 0.0194	0.0195 0.0199	0.0204	0.0204	Ave		0.0200			0.0010	2.5		15.0			
Isopropyl ether	+++++ 0.8795	+++++ 0.7689	0.8191 0.7217	0.8420	0.8503	Ave		0.8136			0.0100	7.2		15.0			
2-Chloro-1,3-butadiene	+++++ 0.4738	+++++ 0.4570	0.3999 0.4266	0.4070	0.4291	Ave		0.4322			0.0100	6.6		15.0			
1,1-Dichloroethane	+++++ 0.4746	+++++ 0.4494	0.4504 0.4124	0.4493	0.4564	Ave		0.4488			0.2000	4.5		15.0			
Acrylonitrile	+++++ 0.0638	+++++ 0.0597	0.0592 0.0554	0.0630	0.0643	Ave		0.0609			0.0100	5.7		15.0			
Tert-butyl ethyl ether	+++++ 0.7711	+++++ 0.7189	0.7208 0.6534	0.7420	0.7587	Ave		0.7275			0.0100	5.7		15.0			
Vinyl acetate	+++++ 0.4901	+++++ 0.4641	0.4250 0.4186	0.4275	0.4575	Ave		0.4471			0.0100	6.3		15.0			
cis-1,2-Dichloroethene	+++++ 0.3119	0.2993 0.2958	0.2979 0.2853	0.2965	0.2979	Ave		0.2978			0.1000	2.6		15.0			
2,2-Dichloropropane	+++++ 0.3989	+++++ 0.3835	0.3752 0.3632	0.3752	0.3843	Ave		0.3800			0.0100	3.2		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: TestAmerica St. Louis Job No.: 280-95891-1 Analy Batch No.: 296453

SDG No.:

Instrument ID: VMSM GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/07/2017 21:59 Calibration End Date: 03/08/2017 00:57 Calibration ID: 12593

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	+++++ 0.1457	+++++ 0.1380	0.1399 0.1350	0.1381	0.1401	Ave		0.1395			0.0100	2.6		15.0			
Cyclohexane	+++++ 0.4932	+++++ 0.4841	0.4640 0.4529	0.4631	0.4767	Ave		0.4723			0.1000	3.2		15.0			
Chloroform	+++++ 0.4443	0.4200 0.4232	0.4041 0.3892	0.4108	0.4261	Ave		0.4168			0.2000	4.2		15.0			
Ethyl acetate	+++++ 0.0247	+++++ 0.0241	0.0221 0.0249	0.0235	0.0253	Ave		0.0241			0.0100	4.9		15.0			
Carbon tetrachloride	+++++ 0.4304	+++++ 0.4123	0.3897 0.3898	0.3908	0.4036	Ave		0.4028			0.1000	4.1		15.0			
Tetrahydrofuran	+++++ 0.0187	+++++ 0.0185	0.0159 0.0193	0.0174	0.0184	Ave		0.0180			0.0010	6.8		15.0			
1,1,1-Trichloroethane	+++++ 0.4498	+++++ 0.4294	0.4141 0.4031	0.4117	0.4304	Ave		0.4231			0.1000	4.0		15.0			
2-Butanone (MEK)	+++++ 0.0772	+++++ 0.0727	0.0694 0.0776	0.0744	0.0763	Ave		0.0746		*	0.1000	4.2		15.0			
1,1-Dichloropropene	+++++ 0.3708	+++++ 0.3559	0.3446 0.3404	0.3434	0.3540	Ave		0.3515			0.0100	3.2		15.0			
Isooctane	+++++ 1.2743	+++++ 1.1174	1.2422 0.9205	1.2511	1.2452	Ave		1.1751			0.0100	11.6		15.0			
n-Heptane	+++++ 0.5891	+++++ 0.5538	0.4930 0.5100	0.4928	0.4881	Ave		0.5211			0.0100	7.9		15.0			
Benzene	1.1103 1.0618	1.0960 0.9495	1.0442 0.7910	1.0362	1.0430	Ave		1.0165			0.5000	10.1		15.0			
Propionitrile	+++++ 0.0245	+++++ 0.0231	0.0230 0.0228	0.0242	0.0240	Ave		0.0236			0.0010	3.1		15.0			
Methacrylonitrile	+++++ 0.1046	+++++ 0.0897	0.0997 0.0771	0.1060	0.1099	Ave		0.0978			0.0100	12.6		15.0			
Tert-amyl methyl ether	+++++ 0.6074	+++++ 0.5774	0.5588 0.5339	0.5745	0.5946	Ave		0.5745			0.0100	4.5		15.0			
Isobutyl alcohol	+++++ 0.0049	+++++ 0.0048	0.0041 0.0054	0.0046	0.0048	Ave		0.0048			0.0010	8.8		15.0			
1,2-Dichloroethane	+++++ 0.2764	0.2749 0.2632	0.2607 0.2555	0.2655	0.2684	Ave		0.2664			0.1000	2.8		15.0			
Methylcyclohexane	+++++ 0.4823	+++++ 0.4526	0.4698 0.4219	0.4627	0.4707	Ave		0.4600			0.1000	4.6		15.0			
Trichloroethene	+++++ 0.3051	0.2879 0.2864	0.2833 0.2687	0.2852	0.2920	Ave		0.2870			0.2000	3.8		15.0			
n-Butanol	+++++ 0.0051	+++++ 0.0050	0.0040 0.0057	0.0045	0.0050	Ave		0.0049		*	0.0100	11.4		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: TestAmerica St. Louis Job No.: 280-95891-1 Analy Batch No.: 296453

SDG No.:

Instrument ID: VMSM GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/07/2017 21:59 Calibration End Date: 03/08/2017 00:57 Calibration ID: 12593

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	+++++ 0.1247	+++++ 0.1222	0.1141 0.1231	0.1185	0.1219	Ave		0.1208			0.0100	3.2		15.0			
Ethyl acrylate	+++++ 0.2373	+++++ 0.2316	0.1895 0.2385	0.2025	0.2204	Ave		0.2200			0.0100	9.1		15.0			
1,2-Dichloropropane	+++++ 0.2684	+++++ 0.2569	0.2459 0.2484	0.2514	0.2570	Ave		0.2546			0.1000	3.2		15.0			
Bromodichloromethane	+++++ 0.3033	+++++ 0.3000	0.2617 0.2919	0.2684	0.2809	Ave		0.2844			0.2000	6.0		15.0			
Methyl methacrylate	+++++ 0.1206	+++++ 0.1160	0.0942 0.1188	0.1049	0.1117	Ave		0.1110			0.0100	9.0		15.0			
1,4-Dioxane	+++++ 0.0017	+++++ 0.0017	0.0017 0.0018	0.0017	0.0017	Ave		0.0017			0.0010	3.5		15.0			
2-Chloroethyl vinyl ether	+++++ 0.0865	+++++ 0.0679	0.1007 0.0702	0.1060	0.1084	Lin	0.4963	0.0673			0.0100				0.9950		0.9900
cis-1,3-Dichloropropene	+++++ 0.3852	+++++ 0.3680	0.3442 0.3520	0.3478	0.3652	Ave		0.3604			0.2000	4.3		15.0			
Toluene	0.9086 0.9245	0.8954 0.8649	0.8836 0.7750	0.8622	0.8758	Ave		0.8737			0.4000	5.2		15.0			
2-Nitropropane	+++++ 0.0562	+++++ 0.0591	0.0433 0.0638	0.0449	0.0504	Lin1	-0.296	0.0624			0.0100				0.9980		0.9900
4-Methyl-2-pentanone (MIBK)	+++++ 0.2027	+++++ 0.1949	0.1614 0.2065	0.1763	0.1907	Ave		0.1887			0.1000	9.0		15.0			
trans-1,3-Dichloropropene	+++++ 0.4034	+++++ 0.3924	0.3471 0.3767	0.3507	0.3837	Ave		0.3757			0.1000	6.0		15.0			
Tetrachloroethene	+++++ 0.3764	0.3566 0.3585	0.3542 0.3388	0.3439	0.3572	Ave		0.3551			0.2000	3.4		15.0			
Ethyl methacrylate	+++++ 0.2844	+++++ 0.2889	0.2032 0.3001	0.2252	0.2540	Ave		0.2593			0.0100	14.9		15.0			
1,1,2-Trichloroethane	+++++ 0.1938	+++++ 0.1915	0.1777 0.1924	0.1750	0.1856	Ave		0.1860			0.1000	4.3		15.0			
Dibromochloromethane	+++++ 0.3326	+++++ 0.3336	0.2677 0.3399	0.2789	0.3061	Ave		0.3098			0.1000	9.9		15.0			
1,3-Dichloropropane	+++++ 0.3998	+++++ 0.3918	0.3758 0.3834	0.3756	0.3885	Ave		0.3858			0.0100	2.5		15.0			
1,2-Dibromoethane	+++++ 0.2434	+++++ 0.2416	0.2080 0.2463	0.2114	0.2335	Ave		0.2307			0.1000	7.3		15.0			
n-Butyl acetate	+++++ 0.3592	+++++ 0.3482	0.2888 0.3589	0.3100	0.3361	Ave		0.3335			0.0100	8.6		15.0			
2-Hexanone	+++++ 0.1379	+++++ 0.1324	0.1123 0.1458	0.1207	0.1316	Ave		0.1301			0.1000	9.2		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: TestAmerica St. Louis Job No.: 280-95891-1 Analy Batch No.: 296453

SDG No.:

Instrument ID: VMSM GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/07/2017 21:59 Calibration End Date: 03/08/2017 00:57 Calibration ID: 12593

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	+++++ 0.5691	+++++ 0.5315	0.5282 0.4923	0.5211	0.5341	Ave		0.5294			0.0100	4.7		15.0			
Chlorobenzene	+++++ 1.0760	+++++ 0.9587	1.0693 0.7956	1.0451	1.0621	Ave		1.0011			0.5000	10.9		15.0			
Ethylbenzene	1.8966 1.6599	1.7524 1.3821	1.6778 +++++	1.6503	1.6609	Ave		1.6686			0.1000	9.2		15.0			
1,1,1,2-Tetrachloroethane	+++++ 0.4084	+++++ 0.3947	0.3508 0.3821	0.3598	0.3801	Ave		0.3793			0.0100	5.6		15.0			
m,p-Xylenes	0.6469 0.7251	0.6621 0.6853	0.6472 0.6374	0.6471	0.6748	Ave		0.6657			0.1000	4.3		15.0			
o-Xylene	0.6074 0.6791	0.6144 0.6381	0.6036 0.5948	0.6177	0.6288	Ave		0.6230			0.3000	4.3		15.0			
Styrene	+++++ 1.0385	+++++ 0.9802	0.8017 0.8338	0.8493	0.9276	Ave		0.9052			0.3000	10.2		15.0			
Bromoform	+++++ 0.3743	+++++ 0.3736	0.2951 0.3933	0.3227	0.3466	Ave		0.3509			0.1000	10.5		15.0			
Isopropylbenzene	+++++ 3.5044	+++++ 2.8023	3.5740 +++++	3.5283	3.5257	Ave		3.3870			0.1000	9.7		15.0			
N-Propylbenzene	+++++ 3.6131	+++++ 2.8892	3.4837 +++++	3.4684	3.5556	Ave		3.4020			0.0100	8.6		15.0			
Bromobenzene	+++++ 0.9286	+++++ 0.8545	0.9300 0.8039	0.9047	0.8948	Ave		0.8861			0.0100	5.5		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.5242	+++++ 0.4986	0.4895 0.5200	0.5033	0.5090	Ave		0.5074			0.3000	2.6		15.0			
1,3,5-Trimethylbenzene	+++++ 2.5588	+++++ 2.2725	2.3308 1.8053	2.3914	2.4805	Ave		2.3065			0.0100	11.5		15.0			
2-Chlorotoluene	+++++ 2.4448	+++++ 2.1189	2.4169 1.7079	2.3674	2.3987	Ave		2.2424			0.0100	12.8		15.0			
1,2,3-Trichloropropane	+++++ 0.1822	+++++ 0.1742	0.1753 0.1843	0.1851	0.1810	Ave		0.1803			0.0100	2.6		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1625	+++++ 0.1567	0.1415 0.1678	0.1485	0.1499	Ave		0.1545			0.0100	6.3		15.0			
Cyclohexanone	+++++ 0.0125	+++++ 0.0124	0.0119 0.0148	0.0129	0.0124	Ave		0.0128			0.0010	8.0		15.0			
4-Chlorotoluene	+++++ 2.2167	+++++ 1.9785	2.1277 1.6380	2.1514	2.1443	Ave		2.0428			0.0100	10.4		15.0			
tert-Butylbenzene	+++++ 2.7033	+++++ 2.2953	2.4551 1.7722	2.4593	2.5450	Ave		2.3717			0.0100	13.6		15.0			
1,2,4-Trimethylbenzene	+++++ 2.3487	+++++ 2.1594	2.0381 1.7497	2.0760	2.2465	Ave		2.1031			0.0100	9.8		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: TestAmerica St. Louis Job No.: 280-95891-1 Analy Batch No.: 296453

SDG No.:

Instrument ID: VMSM GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/07/2017 21:59 Calibration End Date: 03/08/2017 00:57 Calibration ID: 12593

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	+++++ 3.6061	+++++ 2.8394	3.2920 +++++	3.3319	3.4665	Ave		3.3072			0.0100	8.7		15.0			
p-Isopropyltoluene	+++++ 3.0750	+++++ 2.5913	2.5175 +++++	2.6431	2.8621	Ave		2.7378			0.0100	8.3		15.0			
1,3-Dichlorobenzene	+++++ 1.7672	+++++ 1.5817	1.7197 1.3487	1.7148	1.7042	Ave		1.6394			0.6000	9.5		15.0			
1,2,3-Trimethylbenzene	+++++ 2.2540	+++++ 2.0692	2.0394 1.6580	2.0924	2.2190	Ave		2.0553			0.0100	10.3		15.0			
1,4-Dichlorobenzene	+++++ 1.7162	+++++ 1.5320	1.6930 1.2930	1.6794	1.6683	Ave		1.5970			0.5000	10.2		15.0			
n-Butylbenzene	+++++ 0.7455	+++++ 0.7696	0.5688 0.7496	0.5886	0.6576	Ave		0.6800			0.0100	12.9		15.0			
Benzyl chloride	+++++ 0.2856	+++++ 0.2784	0.2272 0.3001	0.2417	0.2591	Ave		0.2654			0.0100	10.5		15.0			
1,2-Dichlorobenzene	+++++ 1.5764	+++++ 1.4121	1.5351 1.2557	1.5333	1.5052	Ave		1.4696			0.4000	8.1		15.0			
n-Nonyl Aldehyde	+++++ 0.1823	+++++ 0.2103	0.1394 0.2628	0.1449	0.1623	Qua	-0.159	0.1598	0.0005188		0.0100				1.0000		0.9900
1,2-Dibromo-3-Chloropropane	+++++ 0.1247	+++++ 0.1212	0.1115 0.1317	0.1121	0.1168	Ave		0.1197			0.0500	6.5		15.0			
1,3,5-Trichlorobenzene	+++++ 0.8978	+++++ 0.9108	0.8277 0.8519	0.8364	0.8912	Ave		0.8693			0.0100	4.0		15.0			
Hexachlorobutadiene	+++++ 0.5580	+++++ 0.5233	0.4910 0.5084	0.5030	0.5165	Ave		0.5167			0.0100	4.5		15.0			
1,2,4-Trichlorobenzene	+++++ 0.7179	+++++ 0.7471	0.6655 0.7399	0.6803	0.7313	Ave		0.7137			0.2000	4.7		15.0			
Naphthalene	+++++ 1.1053	+++++ 1.1508	1.2189 1.1224	1.2244	1.2219	Ave		1.1740			0.0100	4.6		15.0			
1,2,3-Trichlorobenzene	+++++ 0.6099	+++++ 0.6287	0.6253 0.6377	0.6021	0.6352	Ave		0.6231			0.0100	2.3		15.0			
Dibromofluoromethane (Surr)	+++++ 0.2609	+++++ 0.2486	0.2475 0.2516	0.2363	0.2529	Ave		0.2496			0.0100	3.2		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.2213	+++++ 0.2118	0.2257 0.2130	0.2104	0.2174	Ave		0.2166			0.0100	2.8		15.0			
Toluene-d8 (Surr)	+++++ 1.3310	+++++ 1.1620	1.3519 0.9876	1.2419	1.3024	Ave		1.2295			0.0100	11.1		15.0			
4-Bromofluorobenzene (Surr)	+++++ 0.9071	+++++ 0.8412	0.9545 0.8533	0.8905	0.8851	Ave		0.8886			0.0100	4.6		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: TestAmerica St. Louis Job No.: 280-95891-1 Analy Batch No.: 296453

SDG No.:

Instrument ID: VMSM GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/07/2017 21:59 Calibration End Date: 03/08/2017 00:57 Calibration ID: 12593

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-296453/3	MICL3849.D
Level 2	IC 160-296453/4	MICL3850.D
Level 3	IC 160-296453/5	MICL3851.D
Level 4	IC 160-296453/6	MICL3852.D
Level 5	IC 160-296453/7	MICL3853.D
Level 6	ICIS 160-296453/8	MICL3854.D
Level 7	IC 160-296453/9	MICL3855.D
Level 8	IC 160-296453/10	MICL3856.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	+++++ 544573	+++++ 1094772	54188 2155582	108037	206714	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	FB	Ave	+++++ 399165	+++++ 799807	37818 1575111	78788	153594	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chloromethane	FB	Ave	+++++ 698385	+++++ 1418101	71794 2781568	141971	270622	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Butadiene	FB	Ave	+++++ 694451	+++++ 1425785	60293 2645154	125381	259379	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Vinyl chloride	FB	Ave	13217 639547	30841 1323324	60344 2577753	118227	236792	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Bromomethane	FB	Ave	+++++ 212612	+++++ 501754	18733 1106261	36973	79095	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chloroethane	FB	Qua	+++++ 282074	+++++ 507847	33569 1403638	66475	134322	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	+++++ 764019	+++++ 1535907	75183 3186673	148070	304241	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	+++++ 759252	+++++ 1540868	71650 3066854	147771	289461	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl ether	FB	Ave	+++++ 250918	+++++ 529672	23474 1041993	48909	100617	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethanol	FB	Ave	+++++ 149040	+++++ 303247	15529 652871	31170	63965	+++++ 2000	+++++ 4000	200 8000	400	800
1,1-Dichloroethene	FB	Ave	+++++ 505531	+++++ 1060654	47977 2090105	95908	194195	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Carbon disulfide	FB	Ave	+++++ 1691529	+++++ 3483196	157991 6380324	322386	661471	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 552858	+++++ 1157794	52583 2209170	104699	212956	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Iodomethane	FB	Qua	+++++ 414331	+++++ 1038780	21047 2194875	49992	125087	+++++ 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: TestAmerica St. Louis Job No.: 280-95891-1 Analy Batch No.: 296453

SDG No.:

Instrument ID: VMSM GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/07/2017 21:59 Calibration End Date: 03/08/2017 00:57 Calibration ID: 12593

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	+++++ 279648	+++++ 575945	23103 1173115	50660	109389	+++++ 250	+++++ 500	25.0 1000	50.0	100
3-Chloro-1-propene	FB	Ave	+++++ 550387	+++++ 1153207	52093 2161354	103382	218245	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isopropyl alcohol	FB	Ave	+++++ 198912	+++++ 415613	18005 910062	38838	83709	+++++ 500	+++++ 1000	50.0 2000	100	200
Methylene Chloride	FB	Ave	+++++ 476450	+++++ 992627	46481 1978952	93198	188877	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Acetone	FB	Ave	+++++ 87772	+++++ 178181	11783 379159	21265	41994	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 547322	27613 1150454	54291 2178995	106284	216878	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
Methyl acetate	FB	Ave	+++++ 230904	+++++ 493918	21665 990049	45566	95642	+++++ 250	+++++ 500	25.0 1000	50.0	100
Hexane	FB	Ave	+++++ 178298	+++++ 359872	17060 752851	34343	69395	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methyl tert-butyl ether	FB	Ave	+++++ 1055252	+++++ 2196331	96896 4050211	204767	422834	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Methyl-2-propanol	FB	Ave	+++++ 322400	+++++ 692345	29168 1508503	63443	133260	+++++ 500	+++++ 1000	50.0 2000	100	200
Acetonitrile	FB	Ave	+++++ 379622	+++++ 778796	36307 1577149	76363	154005	+++++ 500	+++++ 1000	50.0 2000	100	200
Isopropyl ether	FB	Ave	+++++ 1629370	+++++ 3092104	152136 5727883	314904	641076	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 877636	+++++ 1837649	74284 3385543	152215	323534	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	+++++ 879140	+++++ 1807266	83652 3273150	168035	344111	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Acrylonitrile	FB	Ave	+++++ 1181767	+++++ 2400633	109917 4393441	235681	484953	+++++ 500	+++++ 1000	50.0 2000	100	200
Tert-butyl ethyl ether	FB	Ave	+++++ 1428452	+++++ 2890755	133881 5185805	277482	572026	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Vinyl acetate	FB	Ave	+++++ 907856	+++++ 1866075	78942 3322426	159869	344937	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 577773	27952 1189322	55331 2263831	110901	224600	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 738993	+++++ 1542165	69681 2882480	140308	289775	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromochloromethane	FB	Ave	+++++ 269894	+++++ 554845	25988 1071319	51658	105663	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Cyclohexane	FB	Ave	+++++ 913705	+++++ 1946827	86180 3594438	173186	359375	+++++ 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: TestAmerica St. Louis Job No.: 280-95891-1 Analy Batch No.: 296453

SDG No.:

Instrument ID: VMSM GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/07/2017 21:59 Calibration End Date: 03/08/2017 00:57 Calibration ID: 12593

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	+++++ 823137	39218 1701632	75052 3089043	153651	321277	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
Ethyl acetate	FB	Ave	+++++ 91546	+++++ 193663	8217 395969	17545	38193	+++++ 100	+++++ 200	10.0 400	20.0	40.0
Carbon tetrachloride	FB	Ave	+++++ 797330	+++++ 1658079	72381 3093534	146163	304305	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Tetrahydrofuran	FB	Ave	+++++ 69282	+++++ 148714	5889 306283	12988	27768	+++++ 100	+++++ 200	10.0 400	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	+++++ 833201	+++++ 1726650	76908 3199374	153971	324536	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	+++++ 142989	+++++ 292472	12894 616076	27826	57495	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	+++++ 686986	+++++ 1431321	64006 2701803	128418	266885	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isooctane	FB	Ave	+++++ 2360638	+++++ 4493433	230727 7304817	467907	938853	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Heptane	FB	Ave	+++++ 1091295	+++++ 2226919	91561 4047620	184313	368027	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Benzene	FB	Ave	42082 1967066	102352 3818161	193938 6277709	387536	786337	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Propionitrile	FB	Ave	+++++ 453437	+++++ 929167	42634 1809159	90630	181031	+++++ 500	+++++ 1000	50.0 2000	100	200
Methacrylonitrile	FB	Ave	+++++ 1936916	+++++ 3606717	185212 6116736	396602	828707	+++++ 500	+++++ 1000	50.0 2000	100	200
Tert-amyl methyl ether	FB	Ave	+++++ 1125142	+++++ 2322088	103789 4237401	214871	448313	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isobutyl alcohol	FB	Ave	+++++ 226902	+++++ 481600	18991 1065918	42980	90904	+++++ 1250	+++++ 2500	125 5000	250	500
1,2-Dichloroethane	FB	Ave	+++++ 511969	25673 1058551	48414 2027971	99290	202379	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
Methylcyclohexane	FB	Ave	+++++ 893386	+++++ 1820085	87263 3348227	173034	354881	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Trichloroethene	FB	Ave	+++++ 565240	26884 1151881	52610 2132401	106672	220178	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
n-Butanol	FB	Ave	+++++ 234491	+++++ 497816	18777 1126273	41802	93662	+++++ 1250	+++++ 2500	125 5000	250	500
Dibromomethane	FB	Ave	+++++ 231087	+++++ 491448	21194 977082	44325	91882	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl acrylate	FB	Ave	+++++ 439622	+++++ 931341	35199 1892371	75728	166157	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	+++++ 497140	+++++ 1033054	45668 1971292	94016	193739	+++++ 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: TestAmerica St. Louis Job No.: 280-95891-1 Analy Batch No.: 296453

SDG No.:

Instrument ID: VMSM GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/07/2017 21:59 Calibration End Date: 03/08/2017 00:57 Calibration ID: 12593

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	+++++ 561872	+++++ 1206311	48609 2316572	100368	211759	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methyl methacrylate	FB	Ave	+++++ 446895	+++++ 932635	34981 1886030	78492	168409	+++++ 100	+++++ 200	10.0 400	20.0	40.0
1,4-Dioxane	FB	Ave	+++++ 64713	+++++ 132796	6137 287178	12804	26057	+++++ 1000	+++++ 2000	100 4000	200	400
2-Chloroethyl vinyl ether	FB	Lin	+++++ 160331	+++++ 272934	18701 556955	39646	81715	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
cis-1,3-Dichloropropene	FB	Ave	+++++ 713612	+++++ 1479845	63927 2793795	130060	275343	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Toluene	CBNZ d5	Ave	27962 1391821	69374 2763464	136278 4825901	272325	541655	1.00 50.0	2.50 100	5.00 200	10.0	20.0
2-Nitropropane	CBNZ d5	Lin1	+++++ 169263	+++++ 377963	13358 794279	28384	62289	+++++ 100	+++++ 200	10.0 400	20.0	40.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	+++++ 305086	+++++ 622906	24890 1285717	55702	117910	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 607332	+++++ 1253939	53531 2345526	110776	237323	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Tetrachloroethene	CBNZ d5	Ave	+++++ 566706	27629 1145360	54618 2109902	108628	220916	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
Ethyl methacrylate	CBNZ d5	Ave	+++++ 428194	+++++ 923243	31345 1868944	71138	157112	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 291761	+++++ 612032	27412 1198082	55261	114800	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dibromochloromethane	CBNZ d5	Ave	+++++ 500670	+++++ 1066041	41283 2116476	88086	189329	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 601908	+++++ 1251960	57953 2387247	118636	240241	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 366378	+++++ 772054	32076 1533915	66769	144418	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Butyl acetate	CBNZ d5	Ave	+++++ 540762	+++++ 1112445	44533 2235135	97922	207882	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Hexanone	CBNZ d5	Ave	+++++ 207560	+++++ 422983	17326 908025	38126	81406	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1-Chlorohexane	CBNZ d5	Ave	+++++ 856790	+++++ 1698347	81463 3065418	164583	330326	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	+++++ 1619832	+++++ 3063184	164903 4954429	330101	656864	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	58370 2498906	135771 4416092	258758 +++++	521264	1027197	1.00 50.0	2.50 100	5.00 +++++	10.0	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 614794	+++++ 1261317	54102 2379263	113658	235091	+++++ 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: TestAmerica St. Louis Job No.: 280-95891-1 Analy Batch No.: 296453

SDG No.:

Instrument ID: VMSM GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/07/2017 21:59 Calibration End Date: 03/08/2017 00:57 Calibration ID: 12593

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	19909 1091591	51301 2189625	99811 3969303	204397	417328	1.00 50.0	2.50 100	5.00 200	10.0	20.0
o-Xylene	CBNZ d5	Ave	18693 1022384	47603 2038772	93095 3703632	195126	388881	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Styrene	CBNZ d5	Ave	+++++ 1563368	+++++ 3132019	123644 5192183	268253	573686	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromoform	DCBd 4	Ave	+++++ 279408	+++++ 603150	21301 1230194	48547	104353	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isopropylbenzene	DCBd 4	Ave	+++++ 2616131	+++++ 4523548	257946 +++++	530816	1061619	+++++ 50.0	+++++ 100	5.00 +++++	10.0	20.0
N-Propylbenzene	DCBd 4	Ave	+++++ 2697261	+++++ 4663798	251428 +++++	521794	1070611	+++++ 50.0	+++++ 100	5.00 +++++	10.0	20.0
Bromobenzene	DCBd 4	Ave	+++++ 693228	+++++ 1379364	67118 2514193	136102	269440	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 391337	+++++ 804926	35330 1626381	75715	153257	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 1910234	+++++ 3668299	168220 5645923	359765	746883	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 1825107	+++++ 3420379	174436 5341288	356167	722271	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 135986	+++++ 281128	12651 576394	27850	54500	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 121332	+++++ 252939	10215 524840	22346	45138	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Cyclohexanone	DCBd 4	Ave	+++++ 93299	+++++ 200666	8576 462512	19418	37190	+++++ 500	+++++ 1000	50.0 2000	100	200
4-Chlorotoluene	DCBd 4	Ave	+++++ 1654825	+++++ 3193713	153562 5122882	323665	645656	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 2018087	+++++ 3705191	177188 5542519	369983	766301	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 1753385	+++++ 3485791	147097 5472267	312323	676437	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 2692059	+++++ 4583459	237592 +++++	501268	1043794	+++++ 50.0	+++++ 100	5.00 +++++	10.0	20.0
p-Isopropyltoluene	DCBd 4	Ave	+++++ 2295562	+++++ 4183020	181690 +++++	397643	861785	+++++ 50.0	+++++ 100	5.00 +++++	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 1319237	+++++ 2553324	124114 4218066	257983	513149	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 1682684	+++++ 3340107	147185 5185485	314784	668148	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 1281165	+++++ 2473083	122185 4043832	252651	502324	+++++ 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: TestAmerica St. Louis Job No.: 280-95891-1 Analy Batch No.: 296453

SDG No.:

Instrument ID: VMSM GC Column: RTX-VMS40 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/07/2017 21:59 Calibration End Date: 03/08/2017 00:57 Calibration ID: 12593

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	+++++ 556517	+++++ 1242293	41054 2344325	88556	198015	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Benzyl chloride	DCBd 4	Ave	+++++ 213239	+++++ 449460	16396 938693	36369	78022	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 1176851	+++++ 2279484	110792 3927317	230672	453213	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Nonyl Aldehyde	DCBd 4	Qua	+++++ 136095	+++++ 339437	10064 821869	21803	48865	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 93060	+++++ 195588	8050 411752	16866	35171	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 670197	+++++ 1470300	59737 2664186	125837	268346	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 416557	+++++ 844809	35436 1589916	75666	155523	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 535921	+++++ 1205936	48034 2314173	102354	220200	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Naphthalene	DCBd 4	Ave	+++++ 825140	+++++ 1857654	87970 3510379	184202	367933	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 455320	+++++ 1014873	45126 1994416	90579	191272	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 483393	+++++ 999619	45972 1997074	88377	190652	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 409902	+++++ 851554	41918 1690576	78681	163938	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	+++++ 2003848	+++++ 3713026	208487 6150167	392290	805452	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	+++++ 677181	+++++ 1357837	68889 2668639	133975	266518	+++++ 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

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3849.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-Mar-2017 21:59:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009951-003
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSM
Sublist: chrom-5mL-8260_MSM*sub11

Method: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 10-Apr-2017 09:11:47 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK036

First Level Reviewer: buettnera Date: 09-Mar-2017 09:27:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.044	3.031	0.013	97	11901	1.00	1.11	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	66	7537	1.00	0.9694	M
3 Chloromethane	50	3.324	3.324	0.000	98	16522	1.00	1.19	
118 Butadiene	39	3.463	3.464	-0.001	95	15158	1.00	1.16	
4 Vinyl chloride	62	3.436	3.478	-0.042	52	13217	1.00	1.06	
5 Bromomethane	94	3.952	3.952	0.000	91	4141	1.00	0.9590	
6 Chloroethane	64	4.162	4.162	0.000	96	7704	1.00	-13.8	
7 Trichlorofluoromethane	101	4.385	4.371	0.014	97	17264	1.00	1.14	
119 Dichlorofluoromethane	67	4.483	4.483	0.000	98	17337	1.00	1.17	
8 Ethyl ether	74	4.860	4.860	0.000	92	4954	1.00	0.99	
9 Ethanol	45	5.056	5.070	-0.014	96	5974	40.0	77.2	
10 1,1-Dichloroethene	96	5.139	5.140	-0.001	97	10587	1.00	1.07	
11 Carbon disulfide	76	5.181	5.181	0.000	99	35398	1.00	1.08	
12 1,1,2-Trichloro-1,2,2-trif	151	5.209	5.195	0.014	85	11552	1.00	1.07	
13 Iodomethane	142	5.349	5.349	0.000	51	2177	1.00	5.10	M
14 Acrolein	56	5.600	5.600	0.000	96	4452	5.00	4.16	
16 3-Chloro-1-propene	39	5.782	5.782	0.000	93	12130	1.00	1.13	
17 Isopropyl alcohol	45	5.796	5.810	-0.014	98	6744	10.0	16.8	
S 15 1,2-Dichloroethene, Total	96				0			2.13	
18 Methylene Chloride	84	5.908	5.908	0.000	94	9594	1.00	1.01	
19 Acetone	43	5.977	5.977	0.000	99	5566	1.00	2.79	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	97	11481	1.00	1.05	
20 Methyl acetate	74	6.131	6.117	0.014	98	4449	5.00	4.77	
22 Hexane	86	6.201	6.201	0.000	88	3820	1.00	1.09	
23 Methyl tert-butyl ether	73	6.243	6.243	0.000	92	21269	1.00	1.03	
24 2-Methyl-2-propanol	59	6.341	6.341	-0.001	99	10449	10.0	15.9	
25 Acetonitrile	41	6.536	6.536	0.000	98	9490	10.0	12.5	
26 Isopropyl ether	45	6.662	6.662	0.000	94	32314	1.00	1.05	
27 2-Chloro-1,3-butadiene	53	6.787	6.788	-0.001	91	15268	1.00	0.9320	
28 1,1-Dichloroethane	63	6.815	6.815	0.000	96	18737	1.00	1.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	6.871	6.871	0.000	98	21744	10.0	9.42	
30 Tert-butyl ethyl ether	59	7.067	7.053	0.014	98	27374	1.00	0.99	
31 Vinyl acetate	43	7.081	7.081	0.000	98	15932	1.00	0.9401	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	78	12193	1.00	1.08	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	93	15553	1.00	1.08	
35 Cyclohexane	84	7.597	7.598	-0.001	91	18899	1.00	1.06	
34 Chlorobromomethane	128	7.597	7.598	-0.001	91	4782	1.00	0.9046	
36 Chloroform	83	7.653	7.653	0.000	93	16513	1.00	1.05	
37 Ethyl acetate	45	7.765	7.765	0.000	98	1887	2.00	2.07	
38 Carbon tetrachloride	117	7.807	7.807	0.000	96	14872	1.00	0.9742	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	94	8357	1.00	0.8832	
39 Tetrahydrofuran	71	7.835	7.835	0.000	60	1305	2.00	1.91	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	98	16423	1.00	1.02	
42 2-Butanone (MEK)	43	7.975	7.961	0.014	55	3479	1.00	1.23	
43 1,1-Dichloropropene	75	7.989	7.989	0.000	93	12887	1.00	0.9672	
121 Isooctane	57	8.086	8.086	0.000	99	50169	1.00	1.13	
113 n-Heptane	43	8.170	8.170	0.000	94	21079	1.00	1.07	
45 Benzene	78	8.240	8.240	0.000	96	42082	1.00	1.09	
46 Propionitrile	54	8.268	8.268	0.000	92	8661	10.0	9.68	
47 Methacrylonitrile	41	8.282	8.282	0.000	92	36334	10.0	9.80	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	94	22372	1.00	1.03	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	81	7969	1.00	0.9707	
44 Isobutyl alcohol	42	8.394	8.394	0.000	94	7539	25.0	41.8	
50 1,2-Dichloroethane	62	8.435	8.436	-0.001	95	10251	1.00	1.02	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1895059	50.0	50.0	
52 Trichloroethene	95	8.785	8.785	0.000	74	11108	1.00	1.02	
53 Methylcyclohexane	55	8.785	8.785	0.000	88	18237	1.00	1.05	
54 n-Butanol	56	9.036	9.036	0.000	88	9071	25.0	49.2	
55 Dibromomethane	93	9.190	9.190	0.000	88	4099	1.00	0.8956	
120 Ethyl acrylate	55	9.245	9.246	-0.001	98	6485	1.00	0.7779	
56 1,2-Dichloropropane	63	9.273	9.274	-0.001	93	9728	1.00	1.01	
57 Dichlorobromomethane	83	9.315	9.315	0.000	95	9550	1.00	0.8861	
58 Methyl methacrylate	69	9.441	9.441	0.000	92	6665	2.00	1.58	
59 1,4-Dioxane	88	9.511	9.511	0.000	87	2612	20.0	40.1	
60 2-Chloroethyl vinyl ether	63	9.818	9.818	0.000	92	3588	1.00	-5.97	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	93	12649	1.00	0.9260	
$ 62 Toluene-d8 (Surr)	98	10.069	10.070	-0.001	92	39854	1.00	1.05	
63 Toluene	92	10.111	10.111	0.000	98	27962	1.00	1.04	
64 2-Nitropropane	43	10.335	10.335	0.000	96	2811	2.00	6.20	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	95	5084	1.00	0.8752	
61 trans-1,3-Dichloropropene	75	10.475	10.475	-0.001	92	10497	1.00	0.9079	
66 Tetrachloroethene	164	10.475	10.475	-0.001	94	11633	1.00	1.06	
67 Ethyl methacrylate	69	10.586	10.586	0.000	90	5636	1.00	0.7061	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	86	5605	1.00	0.9791	
69 Chlorodibromomethane	129	10.796	10.796	0.000	87	8026	1.00	0.8418	
70 1,3-Dichloropropane	76	10.880	10.880	0.000	93	11564	1.00	0.9739	
72 Ethylene Dibromide	107	11.047	11.047	0.000	98	6211	1.00	0.8748	
116 n-Butyl acetate	43	11.075	11.075	0.000	97	9584	1.00	0.9337	
73 2-Hexanone	43	11.187	11.187	0.000	96	5486	1.00	1.37	
75 1-Chlorohexane	91	11.438	11.438	0.000	94	15630	1.00	0.9593	
* 76 Chlorobenzene-d5	117	11.494	11.494	0.000	82	1538824	50.0	50.0	
77 Ethylbenzene	91	11.508	11.508	0.000	92	58370	1.00	1.14	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Chlorobenzene	112	11.508	11.508	0.000	85	35950	1.00	1.17	
79 1,1,1,2-Tetrachloroethane	131	11.550	11.550	0.000	86	11282	1.00	0.9664	
S 74 1,3-Dichloropropene, Total	75				0			1.83	
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	97	19909	1.00	0.9717	
81 o-Xylene	106	12.039	12.039	0.000	95	18693	1.00	0.9749	
82 Styrene	104	12.081	12.081	0.000	95	24215	1.00	0.8692	
84 Bromoform	173	12.136	12.137	-0.001	93	3987	1.00	0.8533	
85 Isopropylbenzene	105	12.318	12.318	0.000	94	52602	1.00	1.17	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.597	0.000	97	12970	1.00	1.10	
87 N-Propylbenzene	91	12.709	12.709	0.000	98	50223	1.00	1.11	
88 Bromobenzene	156	12.723	12.723	0.000	86	13701	1.00	1.16	
89 1,1,2,2-Tetrachloroethane	83	12.765	12.751	0.014	96	7753	1.00	1.15	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	85	33026	1.00	1.08	
91 2-Chlorotoluene	91	12.877	12.877	0.000	98	36040	1.00	1.21	
92 1,2,3-Trichloropropane	110	12.919	12.919	0.000	78	2736	1.00	1.14	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	79	1754	1.00	0.8527	
94 Cyclohexanone	55	12.988	12.975	0.013	93	5305	10.0	31.1	
95 4-Chlorotoluene	91	13.030	13.030	0.000	94	31230	1.00	1.15	
96 tert-Butylbenzene	119	13.198	13.198	0.000	88	35567	1.00	1.13	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	95	26798	1.00	0.9570	
98 sec-Butylbenzene	105	13.366	13.366	0.000	92	44263	1.00	1.01	
99 4-Isopropyltoluene	119	13.491	13.491	0.000	96	32158	1.00	0.8822	
100 1,3-Dichlorobenzene	146	13.603	13.603	0.000	97	26485	1.00	1.21	
* 101 1,4-Dichlorobenzene-d4	152	13.673	13.673	0.000	93	665716	50.0	50.0	
117 1,2,3-Trimethylbenzene	105	13.687	13.687	0.000	71	28416	1.00	1.04	
102 1,4-Dichlorobenzene	146	13.687	13.687	0.000	90	26571	1.00	1.25	
103 n-Butylbenzene	134	13.896	13.896	0.000	97	6389	1.00	0.7057	
114 Benzyl chloride	126	13.910	13.910	0.000	94	3349	1.00	0.9478	
104 1,2-Dichlorobenzene	146	14.106	14.092	0.014	98	23700	1.00	1.21	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	91	6711	1.00	4.10	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	91	1978	1.00	1.24	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	95	12715	1.00	1.10	
108 Hexachlorobutadiene	225	15.488	15.488	0.000	93	7436	1.00	1.08	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	95	11375	1.00	1.20	
110 Naphthalene	128	15.879	15.880	-0.001	96	24475	1.00	1.57	
111 1,2,3-Trichlorobenzene	180	16.075	16.075	0.000	96	11551	1.00	1.39	
S 112 Xylenes, Total	106				0			1.95	
S 115 Trihalomethanes, Total	1				0			3.63	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

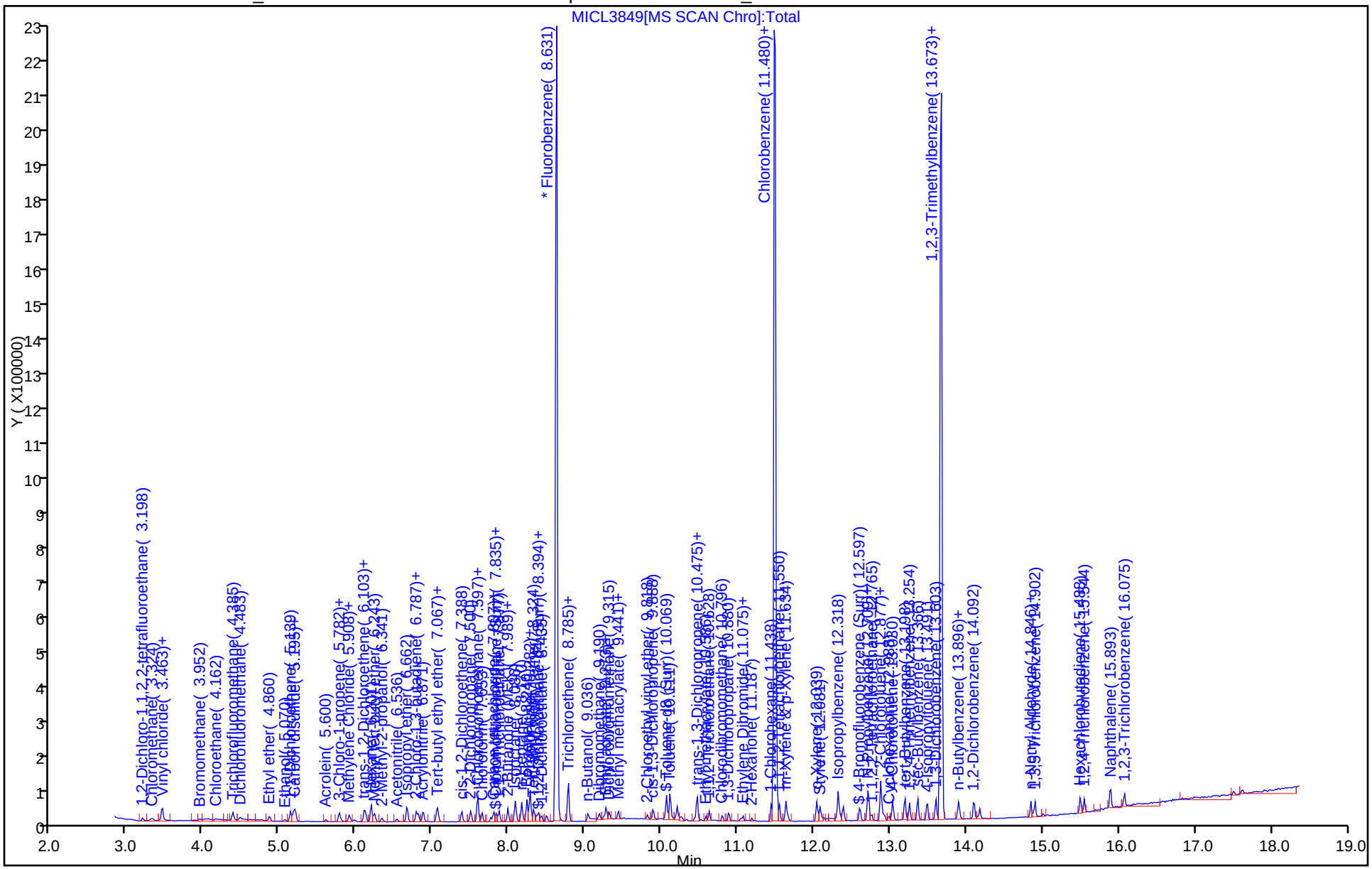
8260 Surr 25_00072	Amount Added: 0.20	Units: uL	
8260 NewWkMix_00209	Amount Added: 0.20	Units: uL	
I.S. Working_00144	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 10-Apr-2017 09:11:48 Chrom Revision: 2.2 13-Mar-2017 15:50:30

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3849.D

Injection Date:	07-Mar-2017 21:59:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	IC			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

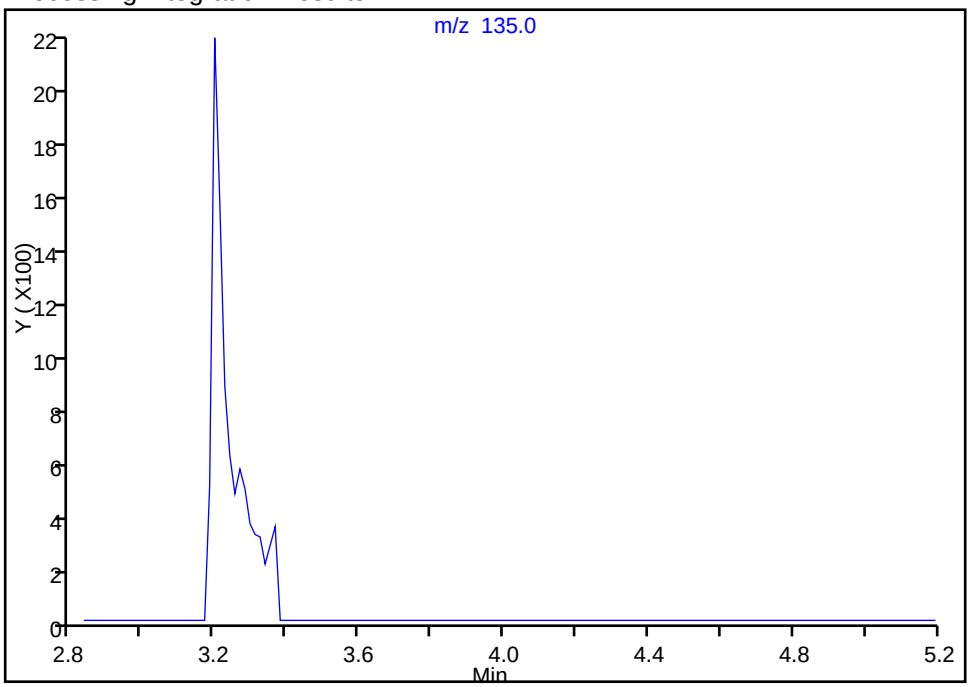
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3849.D
Injection Date: 07-Mar-2017 21:59:30 Instrument ID: VMSM
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

2 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Signal: 1

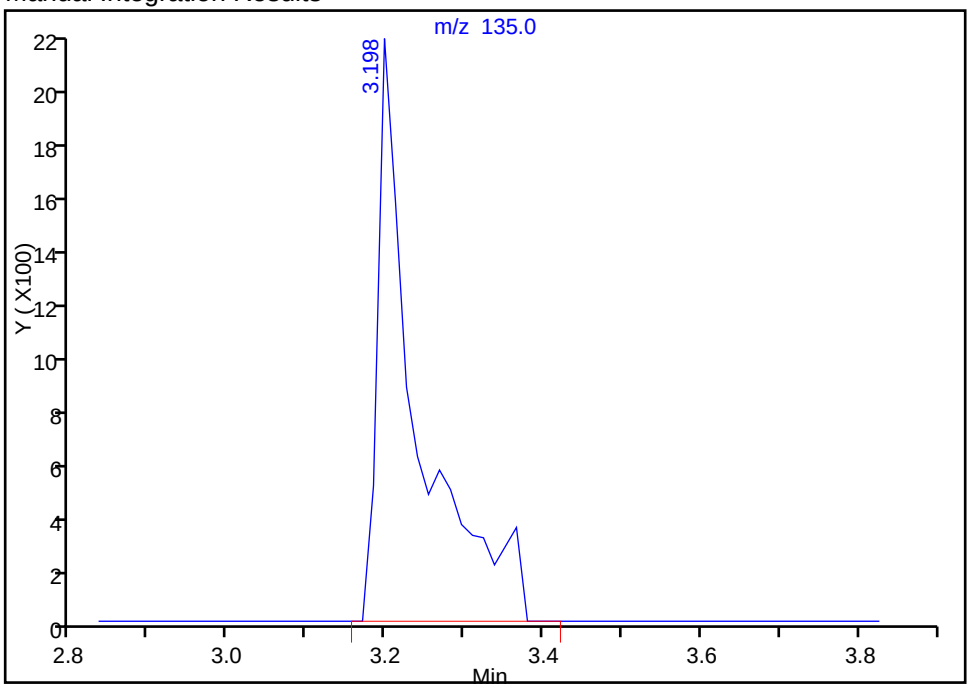
Processing Integration Results

Not Detected
Expected RT: 3.20



Manual Integration Results

RT: 3.20
Area: 7537
Amount: 0.969383
Amount Units: ug/l



Reviewer: rhoadess, 10-Apr-2017 09:11:47
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

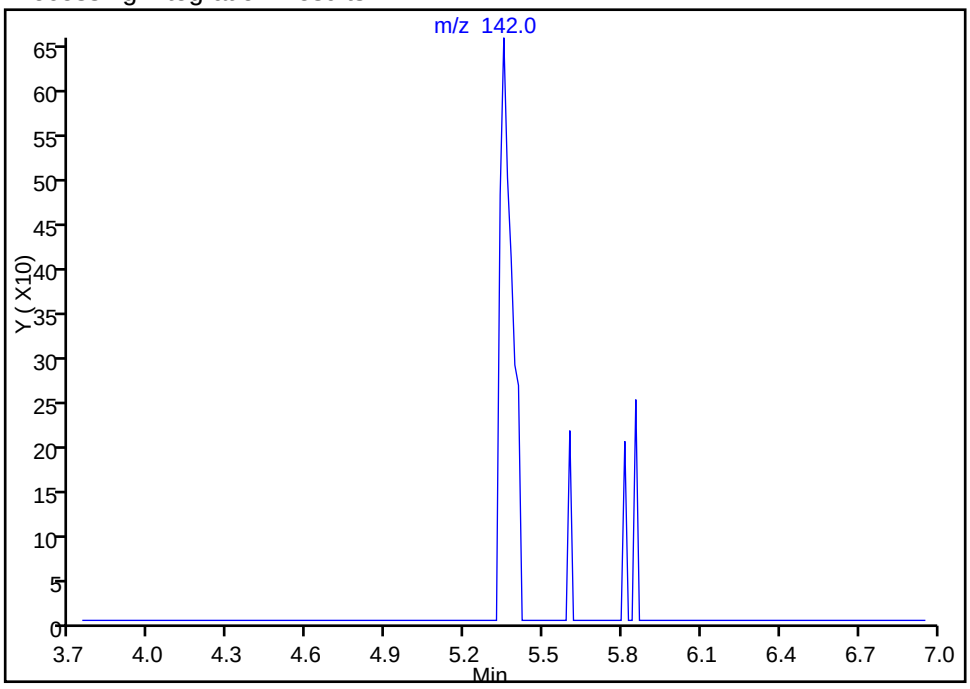
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3849.D
Injection Date: 07-Mar-2017 21:59:30 Instrument ID: VMSM
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

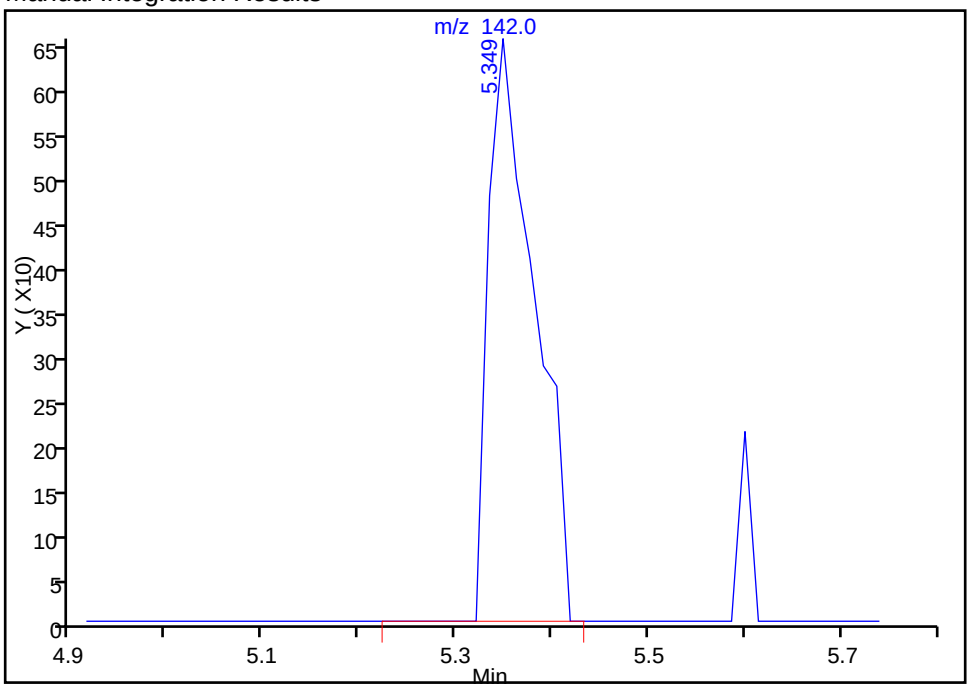
Not Detected
Expected RT: 5.35

Processing Integration Results



Manual Integration Results

RT: 5.35
Area: 2177
Amount: 5.102808
Amount Units: ug/l



Reviewer: buettnera, 10-Apr-2017 09:11:47
Audit Action: Manually Integrated Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3850.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-Mar-2017 22:25:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009951-004
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSM
Sublist: chrom-5mL-8260_MSM*sub11

Method: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 10-Apr-2017 09:11:49 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK036

First Level Reviewer: buettnera Date: 09-Mar-2017 09:26:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.031	3.031	0.000	99	27800	2.50	2.64	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	73	19232	2.50	2.51	M
3 Chloromethane	50	3.324	3.324	0.000	99	35778	2.50	2.61	
118 Butadiene	39	3.450	3.464	-0.014	96	32871	2.50	2.55	
4 Vinyl chloride	62	3.436	3.478	-0.042	97	30841	2.50	2.51	
5 Bromomethane	94	3.952	3.952	0.000	91	9557	2.50	2.25	
6 Chloroethane	64	4.162	4.162	0.000	99	17515	2.50	-9.92	
7 Trichlorofluoromethane	101	4.385	4.371	0.014	99	38641	2.50	2.59	
119 Dichlorofluoromethane	67	4.483	4.483	0.000	99	38629	2.50	2.65	
8 Ethyl ether	74	4.874	4.860	0.014	93	12912	2.50	2.63	
9 Ethanol	45	5.070	5.070	0.000	96	9550	100.0	125.2	
10 1,1-Dichloroethene	96	5.139	5.140	-0.001	96	26302	2.50	2.69	
11 Carbon disulfide	76	5.181	5.181	0.000	99	81723	2.50	2.54	
12 1,1,2-Trichloro-1,2,2-trif	151	5.195	5.195	0.000	89	26982	2.50	2.53	
13 Iodomethane	142	5.349	5.349	0.000	75	6103	2.50	5.53	M
14 Acrolein	56	5.600	5.600	0.000	98	11907	12.5	11.3	
16 3-Chloro-1-propene	39	5.782	5.782	0.000	95	25110	2.50	2.37	
17 Isopropyl alcohol	45	5.810	5.810	0.000	97	11320	25.0	28.5	
S 15 1,2-Dichloroethene, Total	96				0			5.08	
18 Methylene Chloride	84	5.908	5.908	0.000	98	23800	2.50	2.54	
19 Acetone	43	5.977	5.977	0.000	99	7868	2.50	4.01	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	97	27613	2.50	2.57	
20 Methyl acetate	74	6.131	6.117	0.014	98	12397	12.5	13.5	
22 Hexane	86	6.201	6.201	0.000	90	8875	2.50	2.56	
23 Methyl tert-butyl ether	73	6.243	6.243	0.000	93	53707	2.50	2.65	
24 2-Methyl-2-propanol	59	6.341	6.341	-0.001	97	16660	25.0	25.7	
25 Acetonitrile	41	6.536	6.536	0.000	100	21119	25.0	28.2	
26 Isopropyl ether	45	6.662	6.662	0.000	96	81030	2.50	2.67	
27 2-Chloro-1,3-butadiene	53	6.787	6.788	-0.001	91	37456	2.50	2.32	
28 1,1-Dichloroethane	63	6.815	6.815	0.000	96	44846	2.50	2.68	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	6.885	6.871	0.014	100	60217	25.0	26.5	
30 Tert-butyl ethyl ether	59	7.067	7.053	0.014	98	70917	2.50	2.61	
31 Vinyl acetate	43	7.081	7.081	0.000	98	42120	2.50	2.52	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	76	27952	2.50	2.51	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	91	37224	2.50	2.62	
34 Chlorobromomethane	128	7.597	7.598	-0.001	60	13219	2.50	2.54	
35 Cyclohexane	84	7.597	7.598	-0.001	90	42722	2.50	2.42	
36 Chloroform	83	7.653	7.653	0.000	93	39218	2.50	2.52	
37 Ethyl acetate	45	7.765	7.765	0.000	99	4094	5.00	4.55	
38 Carbon tetrachloride	117	7.807	7.807	0.000	96	36697	2.50	2.44	
39 Tetrahydrofuran	71	7.835	7.835	0.000	60	3279	5.00	4.87	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	96	22587	2.50	2.42	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	98	39883	2.50	2.52	
42 2-Butanone (MEK)	43	7.975	7.961	0.014	99	7360	2.50	2.64	
43 1,1-Dichloropropene	75	7.989	7.989	0.000	94	32684	2.50	2.49	
121 Isooctane	57	8.086	8.086	0.000	100	120674	2.50	2.75	
113 n-Heptane	43	8.170	8.170	0.000	95	48492	2.50	2.49	
45 Benzene	78	8.240	8.240	0.000	96	102352	2.50	2.70	
46 Propionitrile	54	8.268	8.268	0.000	95	22670	25.0	25.7	
47 Methacrylonitrile	41	8.282	8.282	0.000	93	96510	25.0	26.4	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	97	55940	2.50	2.61	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	79	21084	2.50	2.61	
44 Isobutyl alcohol	42	8.394	8.394	0.000	94	10910	62.5	61.3	
50 1,2-Dichloroethane	62	8.435	8.436	-0.001	96	25673	2.50	2.58	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1867720	50.0	50.0	
53 Methylcyclohexane	55	8.785	8.785	0.000	89	43994	2.50	2.56	
52 Trichloroethene	95	8.785	8.785	0.000	72	26884	2.50	2.51	
54 n-Butanol	56	9.036	9.036	0.000	86	11836	62.5	65.2	
55 Dibromomethane	93	9.190	9.190	0.000	91	10767	2.50	2.39	
120 Ethyl acrylate	55	9.245	9.246	-0.001	99	18647	2.50	2.27	
56 1,2-Dichloropropane	63	9.273	9.274	-0.001	94	23617	2.50	2.48	
57 Dichlorobromomethane	83	9.315	9.315	0.000	98	24903	2.50	2.34	
58 Methyl methacrylate	69	9.441	9.441	0.000	93	18606	5.00	4.49	
59 1,4-Dioxane	88	9.511	9.511	0.000	90	3665	50.0	57.2	
60 2-Chloroethyl vinyl ether	63	9.818	9.818	0.000	94	9146	2.50	-3.74	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	94	31335	2.50	2.33	
$ 62 Toluene-d8 (Surr)	98	10.070	10.070	0.000	92	101929	2.50	2.68	
63 Toluene	92	10.111	10.111	0.000	99	69374	2.50	2.56	
64 2-Nitropropane	43	10.335	10.335	0.000	99	6802	5.00	8.25	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	96	13491	2.50	2.31	
66 Tetrachloroethene	164	10.475	10.475	0.000	95	27629	2.50	2.51	
61 trans-1,3-Dichloropropene	75	10.475	10.475	0.000	93	27617	2.50	2.37	
67 Ethyl methacrylate	69	10.586	10.586	0.000	91	15642	2.50	1.95	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	88	13947	2.50	2.42	
69 Chlorodibromomethane	129	10.796	10.796	0.000	89	20519	2.50	2.14	
70 1,3-Dichloropropane	76	10.880	10.880	0.000	94	30115	2.50	2.52	
72 Ethylene Dibromide	107	11.047	11.047	0.000	99	17310	2.50	2.42	
116 n-Butyl acetate	43	11.075	11.075	0.000	97	23532	2.50	2.28	
73 2-Hexanone	43	11.187	11.187	0.000	96	9636	2.50	2.39	
75 1-Chlorohexane	91	11.438	11.438	0.000	96	37097	2.50	2.26	
* 76 Chlorobenzene-d5	117	11.494	11.494	0.000	82	1549549	50.0	50.0	
78 Chlorobenzene	112	11.508	11.508	0.000	84	86284	2.50	2.78	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Ethylbenzene	91	11.508	11.508	0.000	92	135771	2.50	2.63	
79 1,1,1,2-Tetrachloroethane	131	11.550	11.550	0.000	95	28546	2.50	2.43	
S 74 1,3-Dichloropropene, Total	75				0			4.70	
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	98	51301	2.50	2.49	
81 o-Xylene	106	12.039	12.039	0.000	95	47603	2.50	2.47	
82 Styrene	104	12.081	12.081	0.000	93	59088	2.50	2.11	
84 Bromoform	173	12.137	12.137	-0.001	96	11211	2.50	2.29	
85 Isopropylbenzene	105	12.318	12.318	0.000	94	130300	2.50	2.76	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.597	0.000	93	33761	2.50	2.73	
87 N-Propylbenzene	91	12.709	12.709	0.000	96	121906	2.50	2.57	
88 Bromobenzene	156	12.723	12.723	0.000	86	34543	2.50	2.80	
89 1,1,2,2-Tetrachloroethane	83	12.751	12.751	0.000	97	18636	2.50	2.64	
91 2-Chlorotoluene	91	12.877	12.877	0.000	98	87373	2.50	2.80	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	85	79383	2.50	2.47	
92 1,2,3-Trichloropropane	110	12.919	12.919	0.000	81	6937	2.50	2.76	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	81	5003	2.50	2.33	
94 Cyclohexanone	55	12.988	12.975	0.013	90	5457	25.0	30.6	
95 4-Chlorotoluene	91	13.030	13.030	0.000	95	76258	2.50	2.68	
96 tert-Butylbenzene	119	13.198	13.198	0.000	89	85226	2.50	2.58	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	95	66926	2.50	2.29	
98 sec-Butylbenzene	105	13.366	13.366	0.000	92	111206	2.50	2.41	
99 4-Isopropyltoluene	119	13.491	13.491	0.000	97	83285	2.50	2.18	
100 1,3-Dichlorobenzene	146	13.603	13.603	0.000	97	61611	2.50	2.70	
* 101 1,4-Dichlorobenzene-d4	152	13.673	13.673	0.000	93	696302	50.0	50.0	
102 1,4-Dichlorobenzene	146	13.687	13.687	0.000	92	62589	2.50	2.81	
117 1,2,3-Trimethylbenzene	105	13.687	13.687	0.000	71	71933	2.50	2.51	
103 n-Butylbenzene	134	13.896	13.896	0.000	96	18408	2.50	1.94	
114 Benzyl chloride	126	13.910	13.910	0.000	96	8314	2.50	2.25	
104 1,2-Dichlorobenzene	146	14.106	14.092	0.014	99	55957	2.50	2.73	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	89	6641	2.50	3.93	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	88	4112	2.50	2.47	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	97	27671	2.50	2.29	
108 Hexachlorobutadiene	225	15.488	15.488	0.000	96	17391	2.50	2.42	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	95	23577	2.50	2.37	
110 Naphthalene	128	15.879	15.880	-0.001	96	46853	2.50	2.87	
111 1,2,3-Trichlorobenzene	180	16.075	16.075	0.000	97	22317	2.50	2.57	
S 112 Xylenes, Total	106				0			4.95	
S 115 Trihalomethanes, Total	1				0			9.29	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

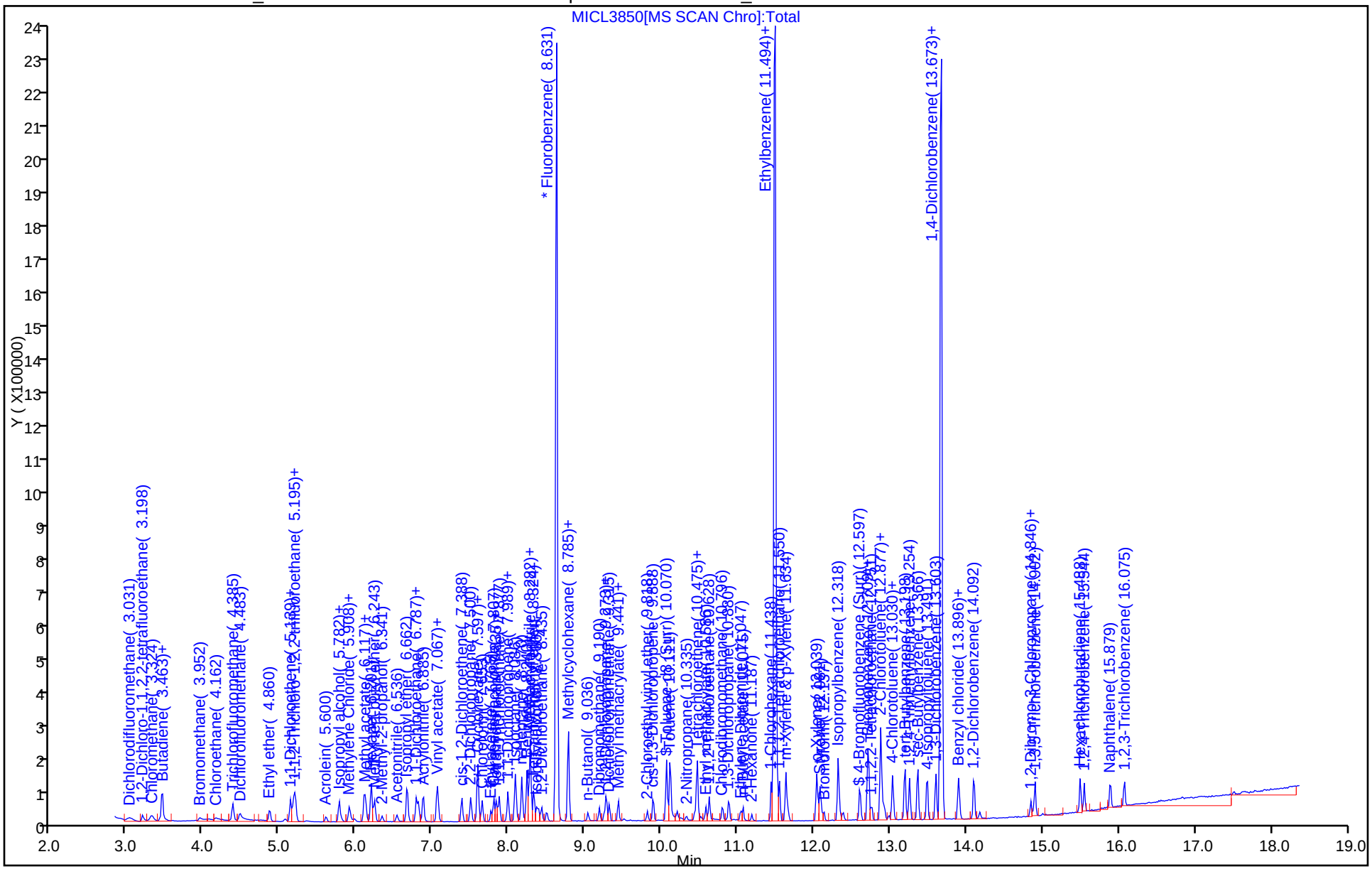
8260 Surr 25_00072	Amount Added: 0.50	Units: uL	
8260 NewWkMix_00209	Amount Added: 0.50	Units: uL	
I.S. Working_00144	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 10-Apr-2017 09:11:50 Chrom Revision: 2.2 13-Mar-2017 15:50:30

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3850.D

Injection Date:	07-Mar-2017 22:25:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

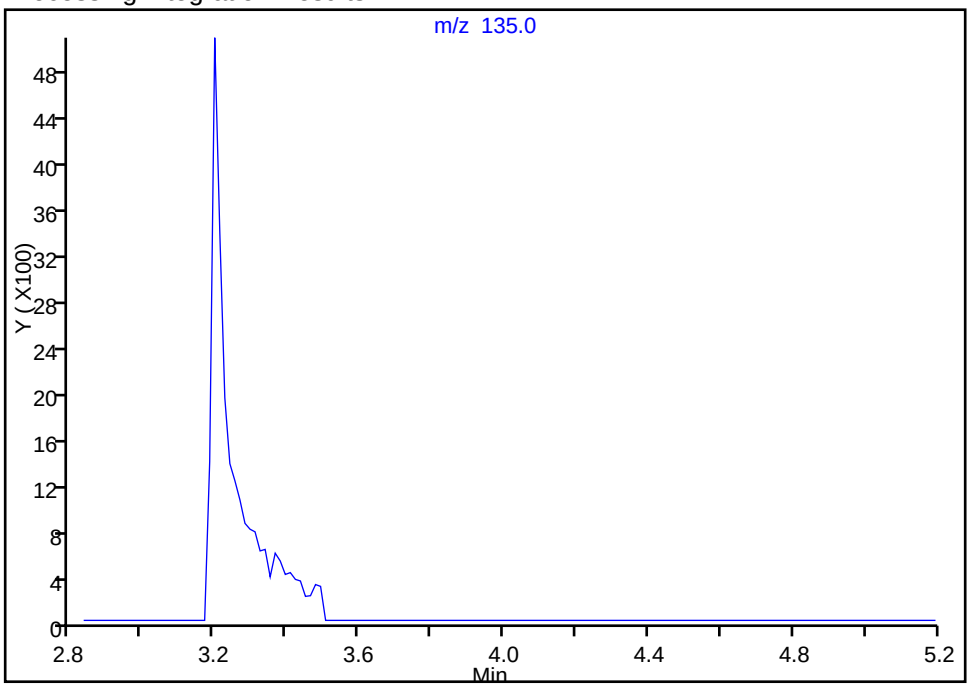
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3850.D
Injection Date: 07-Mar-2017 22:25:30 Instrument ID: VMSM
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

2 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Signal: 1

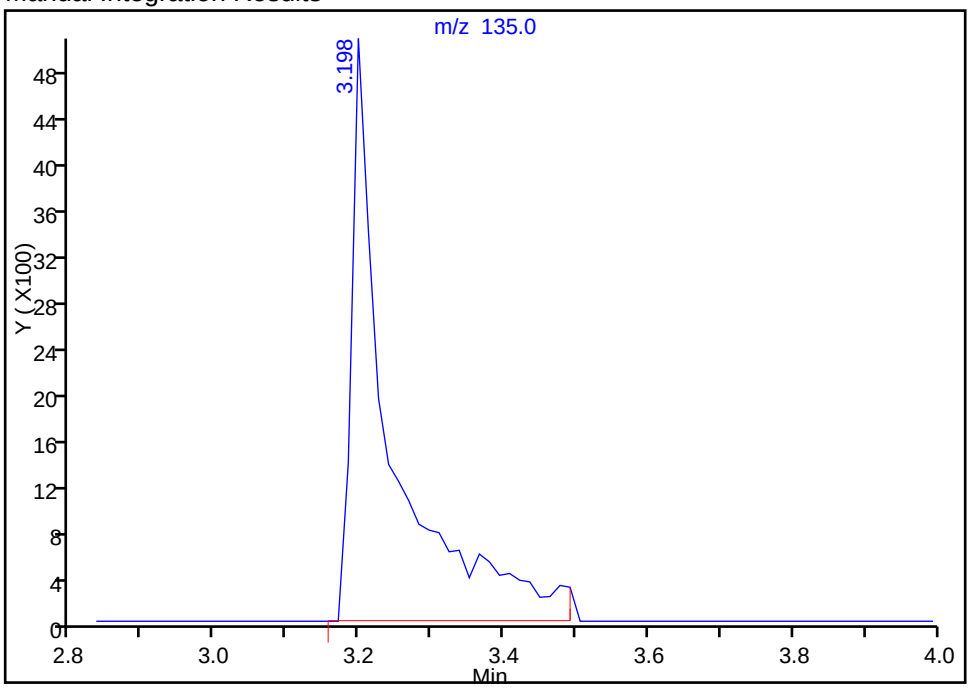
Processing Integration Results

Not Detected
Expected RT: 3.20



Manual Integration Results

RT: 3.20
Area: 19232
Amount: 2.509761
Amount Units: ug/l



Reviewer: rhoadess, 10-Apr-2017 09:11:49
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

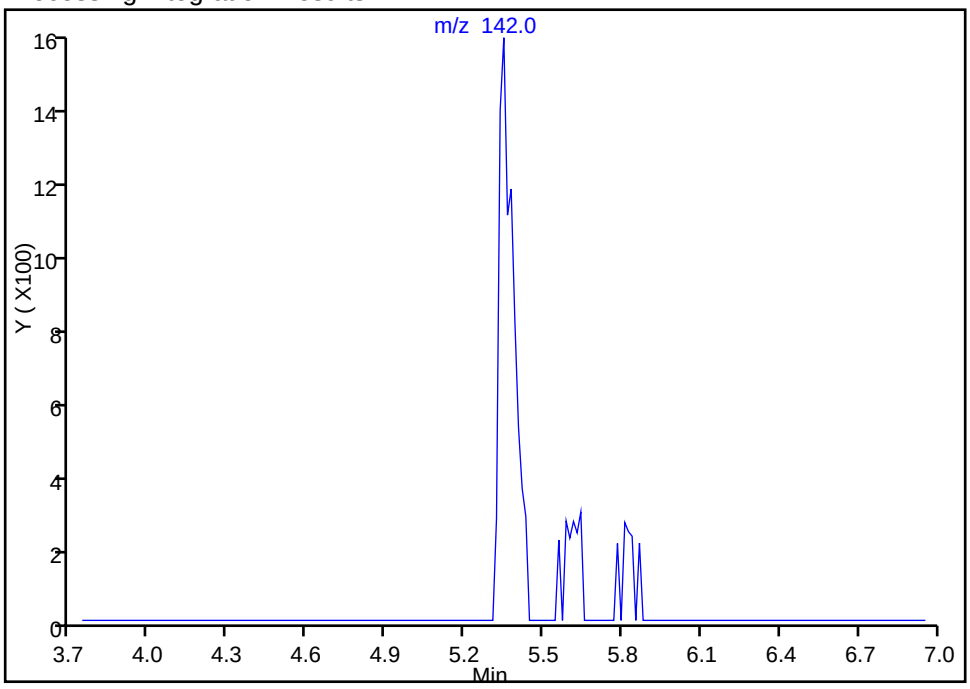
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3850.D
Injection Date: 07-Mar-2017 22:25:30 Instrument ID: VMSM
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

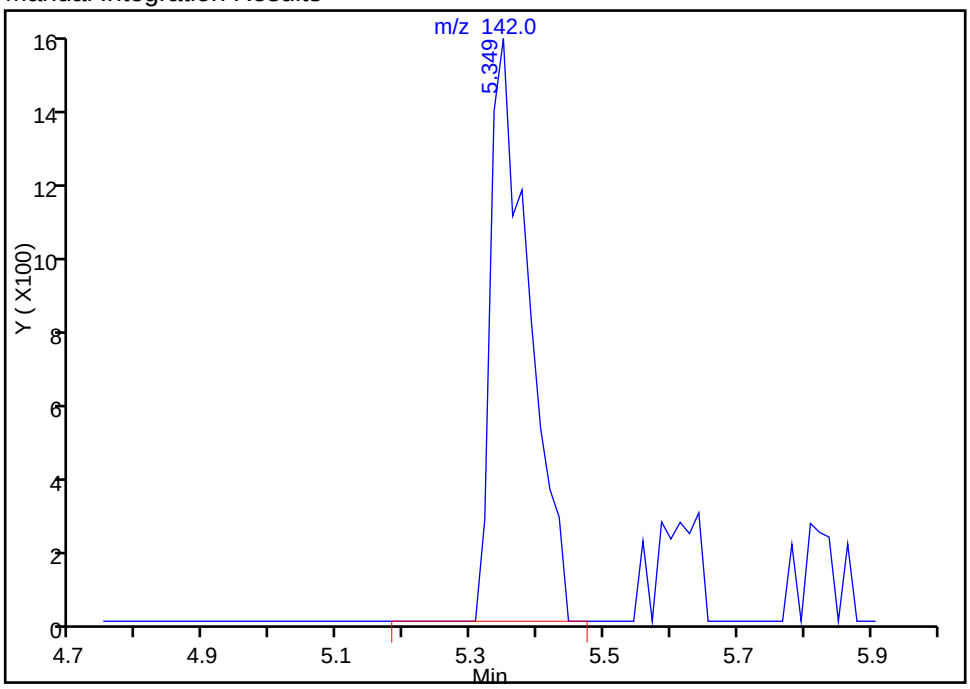
Not Detected
Expected RT: 5.35

Processing Integration Results



Manual Integration Results

RT: 5.35
Area: 6103
Amount: 5.525914
Amount Units: ug/l



Reviewer: buettnera, 10-Apr-2017 09:11:49
Audit Action: Manually Integrated Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3851.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-Mar-2017 22:50:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009951-005
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSM
Sublist: chrom-5mL-8260_MSM*sub11

Method: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 10-Apr-2017 09:11:51 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK036

First Level Reviewer: buettnera Date: 09-Mar-2017 09:25:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.031	3.031	0.000	99	54188	5.00	5.17	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	91	37818	5.00	4.96	M
3 Chloromethane	50	3.324	3.324	0.000	100	71794	5.00	5.26	
118 Butadiene	39	3.450	3.464	-0.014	97	60293	5.00	4.71	
4 Vinyl chloride	62	3.436	3.478	-0.042	1	60344	5.00	4.94	M
5 Bromomethane	94	3.952	3.952	0.000	91	18733	5.00	4.43	
6 Chloroethane	64	4.162	4.162	0.000	99	33569	5.00	-3.98	
7 Trichlorofluoromethane	101	4.385	4.371	0.014	98	75183	5.00	5.06	
119 Dichlorofluoromethane	67	4.483	4.483	0.000	99	71650	5.00	4.94	
8 Ethyl ether	74	4.860	4.860	0.000	95	23474	5.00	4.80	
9 Ethanol	45	5.070	5.070	0.000	95	15529	200.0	204.8	
10 1,1-Dichloroethene	96	5.139	5.140	-0.001	98	47977	5.00	4.93	
11 Carbon disulfide	76	5.181	5.181	0.000	99	157991	5.00	4.93	
12 1,1,2-Trichloro-1,2,2-trif	151	5.195	5.195	0.000	89	52583	5.00	4.97	
13 Iodomethane	142	5.349	5.349	0.000	99	21047	5.00	7.13	M
14 Acrolein	56	5.600	5.600	0.000	99	23103	25.0	22.0	
16 3-Chloro-1-propene	39	5.782	5.782	0.000	94	52093	5.00	4.94	
17 Isopropyl alcohol	45	5.810	5.810	0.000	97	18005	50.0	45.6	
S 15 1,2-Dichloroethene, Total	96				0			10.1	
18 Methylene Chloride	84	5.908	5.908	0.000	95	46481	5.00	4.99	
19 Acetone	43	5.977	5.977	0.000	98	11783	5.00	6.03	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	99	54291	5.00	5.07	
20 Methyl acetate	74	6.131	6.117	0.014	99	21665	25.0	23.7	
22 Hexane	86	6.201	6.201	0.000	89	17060	5.00	4.95	
23 Methyl tert-butyl ether	73	6.243	6.243	0.000	96	96896	5.00	4.81	
24 2-Methyl-2-propanol	59	6.341	6.341	0.000	98	29168	50.0	45.3	
25 Acetonitrile	41	6.536	6.536	0.000	100	36307	50.0	48.8	
26 Isopropyl ether	45	6.662	6.662	0.000	95	152136	5.00	5.03	
27 2-Chloro-1,3-butadiene	53	6.787	6.788	-0.001	91	74284	5.00	4.63	
28 1,1-Dichloroethane	63	6.815	6.815	0.000	95	83652	5.00	5.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	6.871	6.871	0.000	100	109917	50.0	48.6	
30 Tert-butyl ethyl ether	59	7.067	7.053	0.014	97	133881	5.00	4.95	
31 Vinyl acetate	43	7.081	7.081	0.000	98	78942	5.00	4.75	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	77	55331	5.00	5.00	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	92	69681	5.00	4.94	
35 Cyclohexane	84	7.598	7.598	0.000	90	86180	5.00	4.91	
34 Chlorobromomethane	128	7.598	7.598	0.000	88	25988	5.00	5.02	
36 Chloroform	83	7.653	7.653	0.000	93	75052	5.00	4.85	
37 Ethyl acetate	45	7.765	7.765	0.000	99	8217	10.0	9.18	
38 Carbon tetrachloride	117	7.807	7.807	0.000	97	72381	5.00	4.84	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	96	45972	5.00	4.96	
39 Tetrahydrofuran	71	7.835	7.835	0.000	59	5889	10.0	8.80	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	98	76908	5.00	4.89	
42 2-Butanone (MEK)	43	7.975	7.961	0.014	100	12894	5.00	4.65	
43 1,1-Dichloropropene	75	7.989	7.989	0.000	94	64006	5.00	4.90	
121 Isooctane	57	8.086	8.086	0.000	99	230727	5.00	5.29	
113 n-Heptane	43	8.170	8.170	0.000	94	91561	5.00	4.73	
45 Benzene	78	8.240	8.240	0.000	95	193938	5.00	5.14	
46 Propionitrile	54	8.268	8.268	0.000	93	42634	50.0	48.6	
47 Methacrylonitrile	41	8.282	8.282	0.000	93	185212	50.0	51.0	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	96	103789	5.00	4.86	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	41918	5.00	5.21	
44 Isobutyl alcohol	42	8.394	8.394	0.000	96	18991	125.0	107.4	
50 1,2-Dichloroethane	62	8.435	8.436	-0.001	96	48414	5.00	4.89	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1857368	50.0	50.0	
52 Trichloroethene	95	8.785	8.785	0.000	71	52610	5.00	4.94	
53 Methylcyclohexane	55	8.785	8.785	0.000	89	87263	5.00	5.11	
54 n-Butanol	56	9.036	9.036	0.000	89	18777	125.0	104.0	
55 Dibromomethane	93	9.190	9.190	0.000	90	21194	5.00	4.72	
120 Ethyl acrylate	55	9.246	9.246	0.000	99	35199	5.00	4.31	
56 1,2-Dichloropropane	63	9.273	9.274	-0.001	95	45668	5.00	4.83	
57 Dichlorobromomethane	83	9.315	9.315	0.000	97	48609	5.00	4.60	
58 Methyl methacrylate	69	9.441	9.441	0.000	95	34981	10.0	8.48	
59 1,4-Dioxane	88	9.511	9.511	0.000	96	6137	100.0	96.2	
60 2-Chloroethyl vinyl ether	63	9.818	9.818	0.000	92	18701	5.00	0.1060	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	95	63927	5.00	4.77	
$ 62 Toluene-d8 (Surr)	98	10.070	10.070	0.000	92	208487	5.00	5.50	
63 Toluene	92	10.111	10.111	0.000	99	136278	5.00	5.06	
64 2-Nitropropane	43	10.335	10.335	0.000	99	13358	10.0	11.7	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	96	24890	5.00	4.28	
61 trans-1,3-Dichloropropene	75	10.475	10.475	0.000	92	53531	5.00	4.62	
66 Tetrachloroethene	164	10.475	10.475	0.000	95	54618	5.00	4.99	
67 Ethyl methacrylate	69	10.586	10.586	0.000	93	31345	5.00	3.92	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	89	27412	5.00	4.78	
69 Chlorodibromomethane	129	10.796	10.796	0.000	90	41283	5.00	4.32	
70 1,3-Dichloropropane	76	10.880	10.880	0.000	94	57953	5.00	4.87	
72 Ethylene Dibromide	107	11.047	11.047	0.000	99	32076	5.00	4.51	
116 n-Butyl acetate	43	11.075	11.075	0.000	97	44533	5.00	4.33	
73 2-Hexanone	43	11.187	11.187	0.000	94	17326	5.00	4.32	
75 1-Chlorohexane	91	11.438	11.438	0.000	97	81463	5.00	4.99	
* 76 Chlorobenzene-d5	117	11.494	11.494	0.000	88	1542218	50.0	50.0	
77 Ethylbenzene	91	11.508	11.508	0.000	93	258758	5.00	5.03	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Chlorobenzene	112	11.508	11.508	0.000	81	164903	5.00	5.34	
79 1,1,1,2-Tetrachloroethane	131	11.550	11.550	0.000	94	54102	5.00	4.62	
S 74 1,3-Dichloropropene, Total	75				0			9.39	
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	98	99811	5.00	4.86	
81 o-Xylene	106	12.039	12.039	0.000	95	93095	5.00	4.84	
82 Styrene	104	12.081	12.081	0.000	94	123644	5.00	4.43	
84 Bromoform	173	12.137	12.137	0.000	98	21301	5.00	4.20	
85 Isopropylbenzene	105	12.318	12.318	0.000	94	257946	5.00	5.28	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.597	0.000	91	68889	5.00	5.37	
87 N-Propylbenzene	91	12.709	12.709	0.000	99	251428	5.00	5.12	
88 Bromobenzene	156	12.723	12.723	0.000	89	67118	5.00	5.25	
89 1,1,2,2-Tetrachloroethane	83	12.751	12.751	0.000	96	35330	5.00	4.82	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	89	168220	5.00	5.05	
91 2-Chlorotoluene	91	12.877	12.877	0.000	98	174436	5.00	5.39	
92 1,2,3-Trichloropropane	110	12.919	12.919	0.000	82	12651	5.00	4.86	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	84	10215	5.00	4.58	
94 Cyclohexanone	55	12.975	12.975	0.000	91	8576	50.0	46.4	
95 4-Chlorotoluene	91	13.030	13.030	0.000	95	153562	5.00	5.21	
96 tert-Butylbenzene	119	13.198	13.198	0.000	90	177188	5.00	5.18	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	95	147097	5.00	4.85	
98 sec-Butylbenzene	105	13.366	13.366	0.000	93	237592	5.00	4.98	
99 4-Isopropyltoluene	119	13.491	13.491	0.000	97	181690	5.00	4.60	
100 1,3-Dichlorobenzene	146	13.603	13.603	0.000	97	124114	5.00	5.24	
* 101 1,4-Dichlorobenzene-d4	152	13.673	13.673	0.000	93	721721	50.0	50.0	
117 1,2,3-Trimethylbenzene	105	13.687	13.687	0.000	86	147185	5.00	4.96	
102 1,4-Dichlorobenzene	146	13.687	13.687	0.000	89	122185	5.00	5.30	
103 n-Butylbenzene	134	13.896	13.896	0.000	96	41054	5.00	4.18	
114 Benzyl chloride	126	13.910	13.910	0.000	97	16396	5.00	4.28	
104 1,2-Dichlorobenzene	146	14.092	14.092	0.000	99	110792	5.00	5.22	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	91	10064	5.00	5.27	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	91	8050	5.00	4.66	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	97	59737	5.00	4.76	
108 Hexachlorobutadiene	225	15.488	15.488	0.000	96	35436	5.00	4.75	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	96	48034	5.00	4.66	
110 Naphthalene	128	15.879	15.880	-0.001	97	87970	5.00	5.19	
111 1,2,3-Trichlorobenzene	180	16.075	16.075	0.000	98	45126	5.00	5.02	
S 112 Xylenes, Total	106				0			9.71	
S 115 Trihalomethanes, Total	1				0			18.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

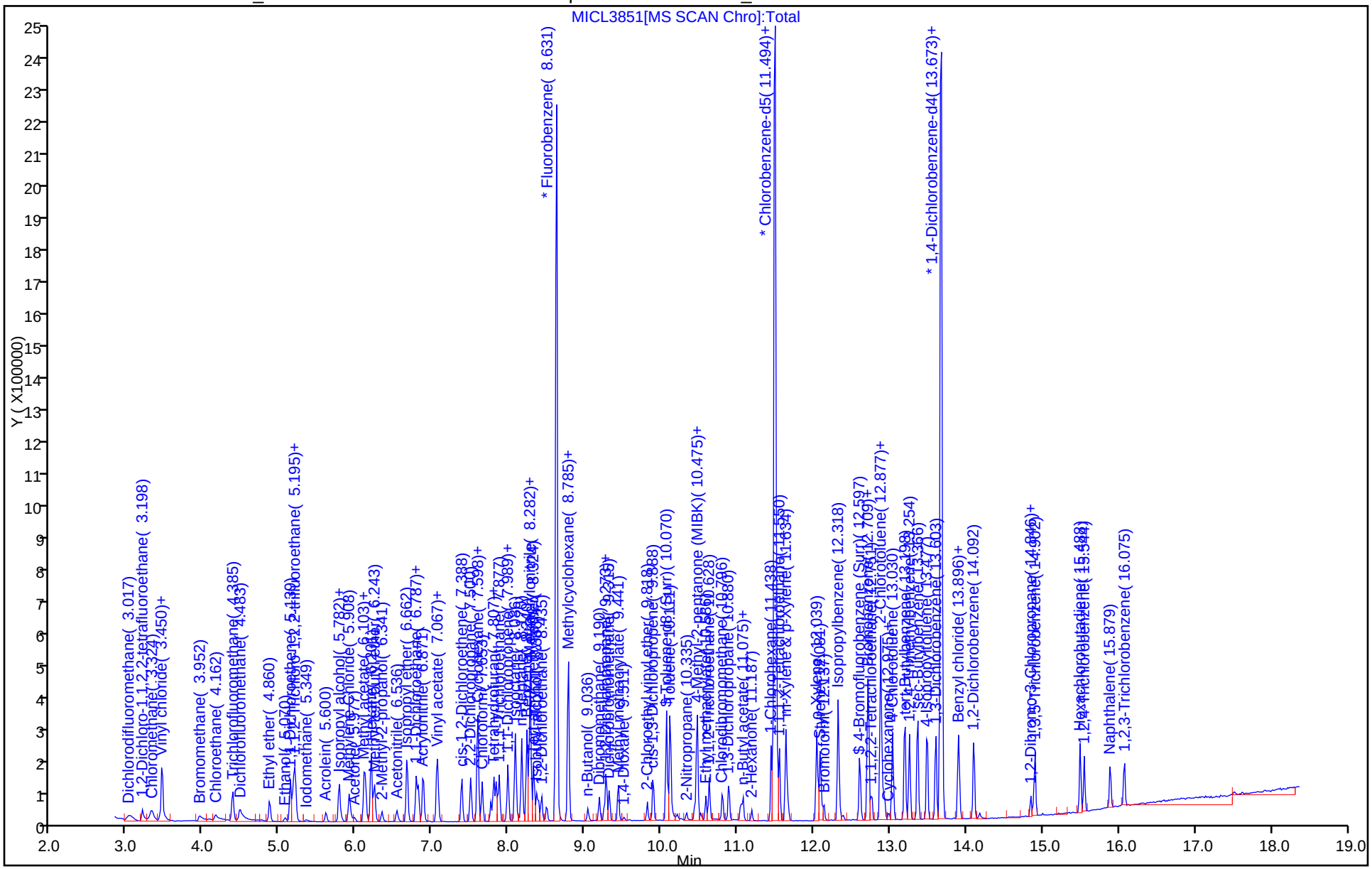
8260 Surr 25_00072	Amount Added: 1.00	Units: uL	
8260 NewWkMix_00209	Amount Added: 1.00	Units: uL	
I.S. Working_00144	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 10-Apr-2017 09:11:52 Chrom Revision: 2.2 13-Mar-2017 15:50:30

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3851.D

Injection Date:	07-Mar-2017 22:50:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

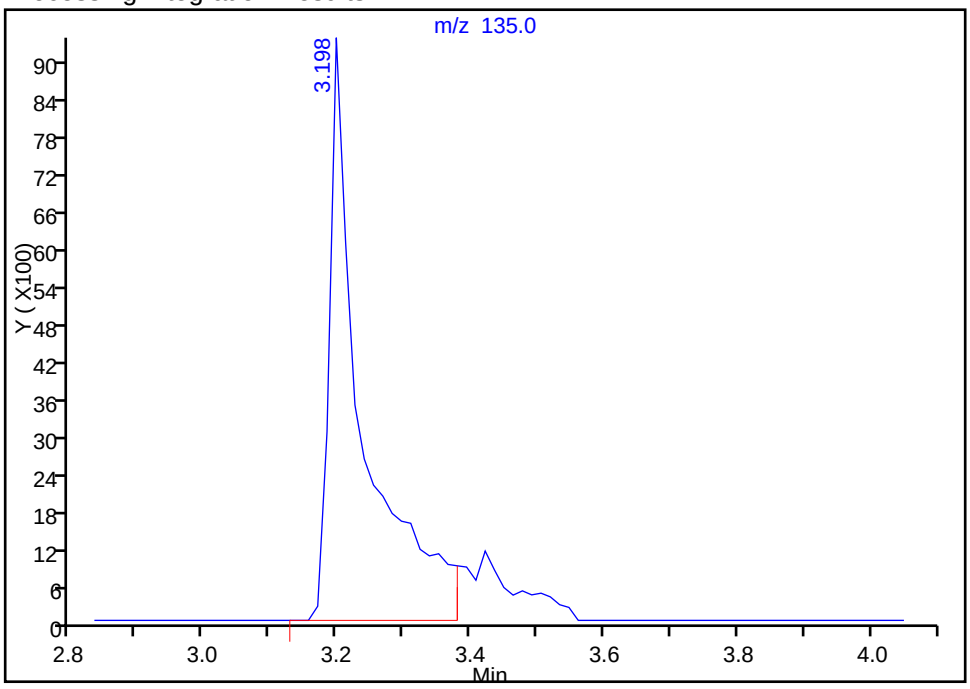
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3851.D
Injection Date: 07-Mar-2017 22:50:30 Instrument ID: VMSM
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

2 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Signal: 1

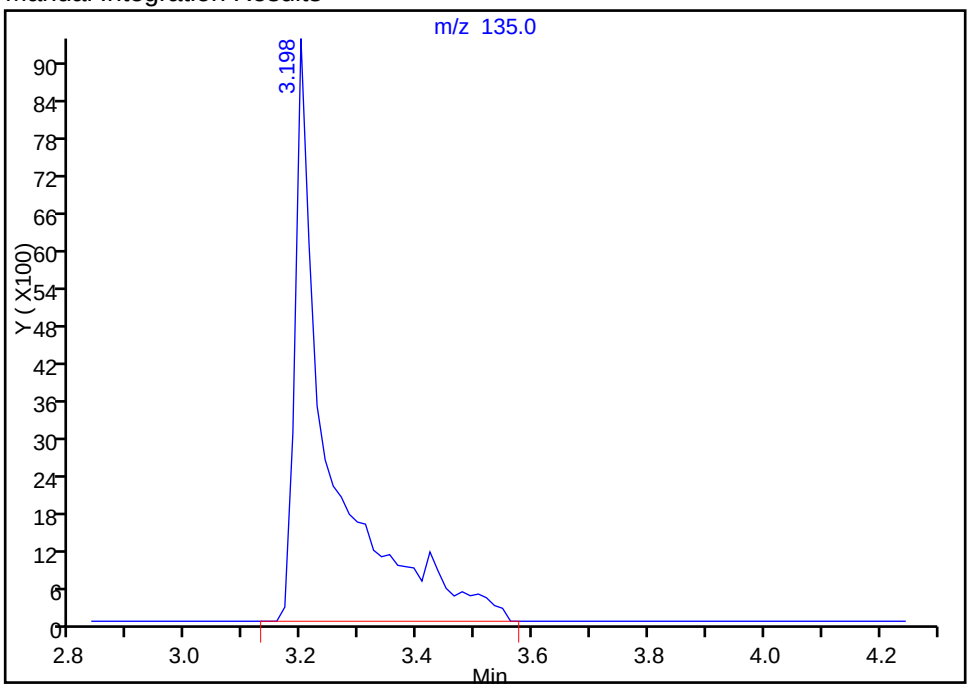
Processing Integration Results

RT: 3.20
Area: 32380
Amount: 4.352653
Amount Units: ug/l



Manual Integration Results

RT: 3.20
Area: 37818
Amount: 4.962727
Amount Units: ug/l



Reviewer: buettnera, 09-Mar-2017 09:25:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

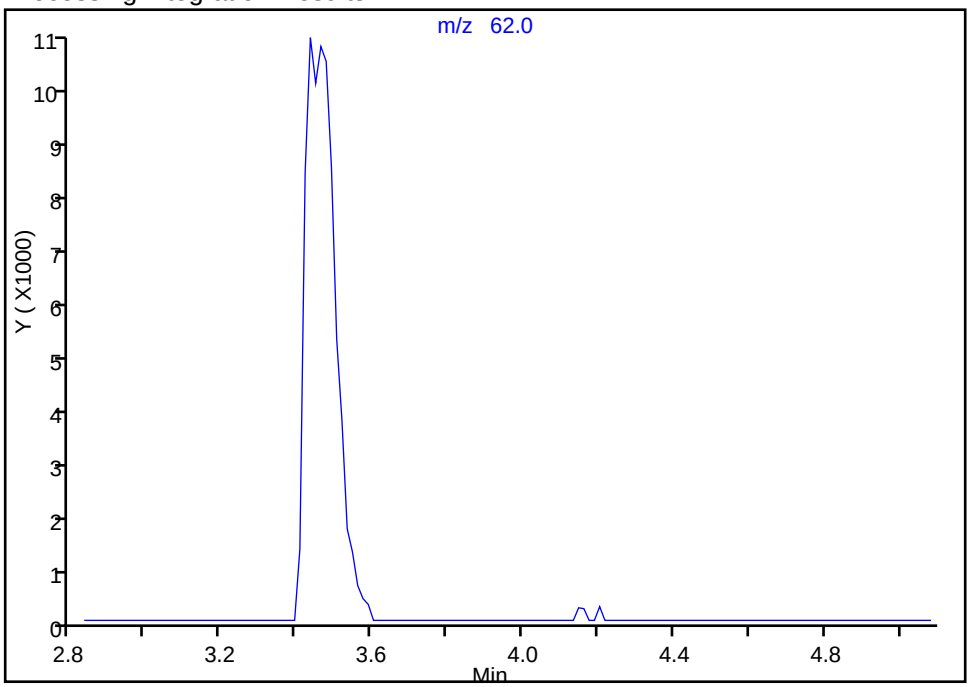
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3851.D
Injection Date: 07-Mar-2017 22:50:30 Instrument ID: VMSM
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4

Signal: 1

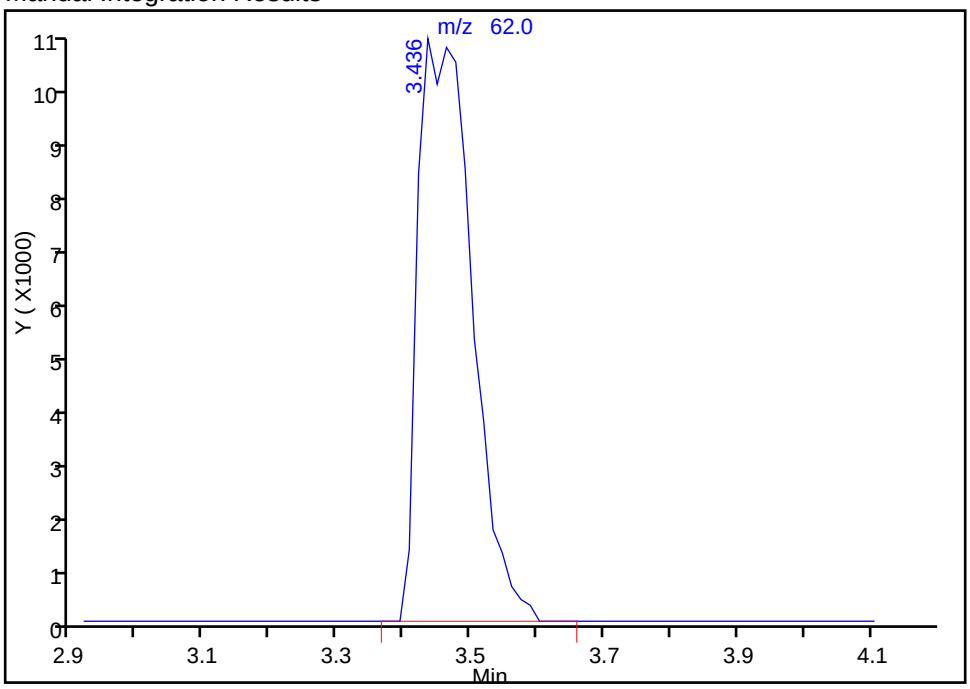
Processing Integration Results

Not Detected
Expected RT: 3.48



Manual Integration Results

RT: 3.44
Area: 60344
Amount: 4.935313
Amount Units: ug/l



Reviewer: buettnera, 09-Mar-2017 09:25:28
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3851.D

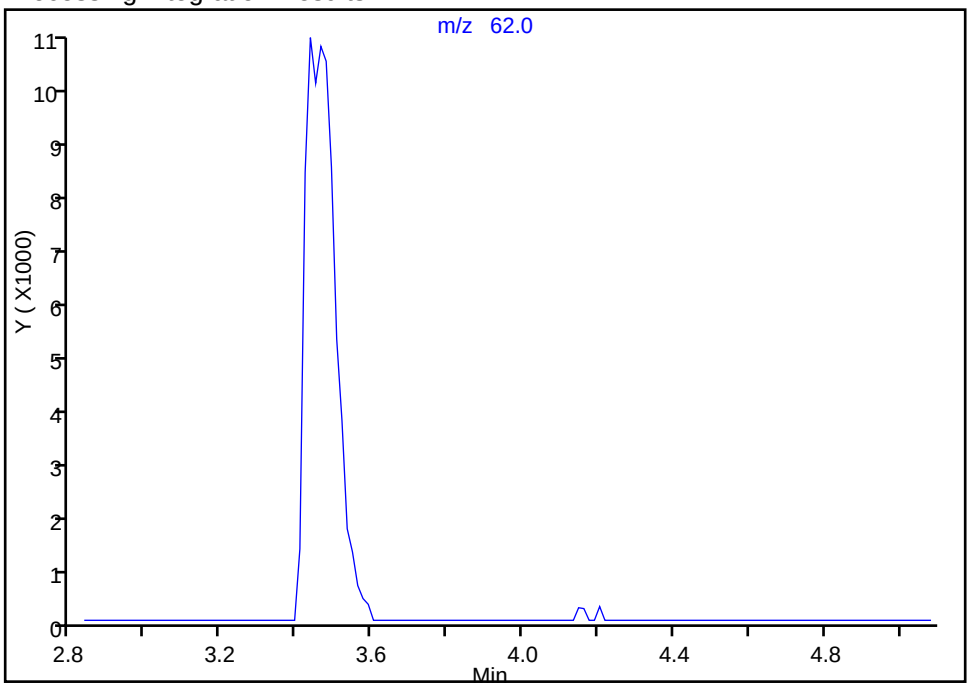
Injection Date:	07-Mar-2017 22:50:30	Instrument ID:	VMSM		
Lims ID:	IC				
Client ID:					
Operator ID:	JDH	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

4 Vinyl chloride, CAS: 75-01-4

Signal: 1

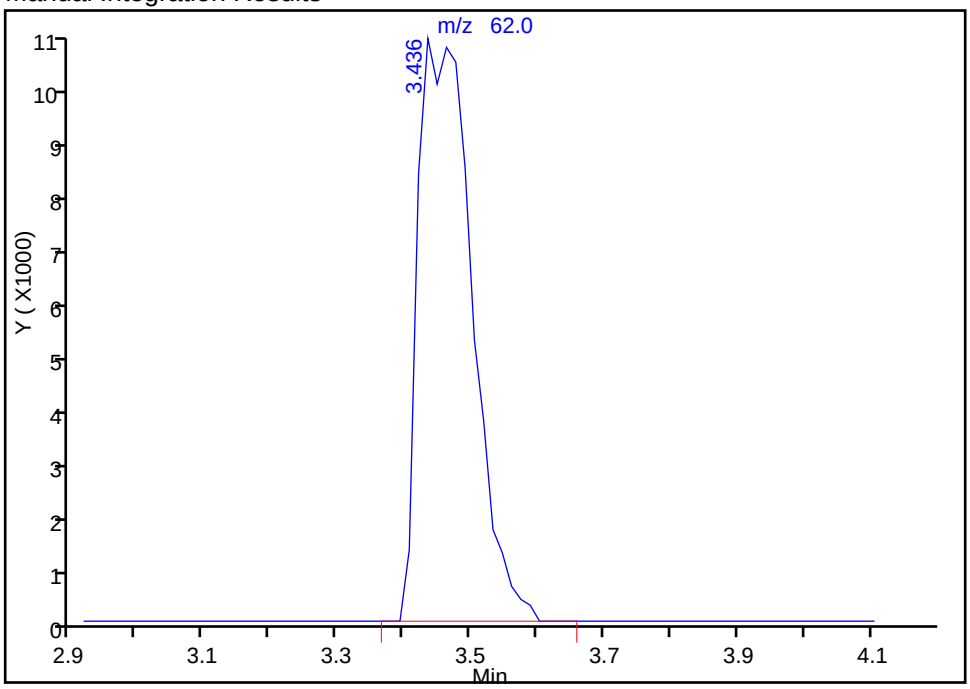
Processing Integration Results

Not Detected
Expected RT: 3.48



Manual Integration Results

RT: 3.44
Area: 60344
Amount: 4.935313
Amount Units: ug/l



Reviewer: buettnera, 09-Mar-2017 09:25:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

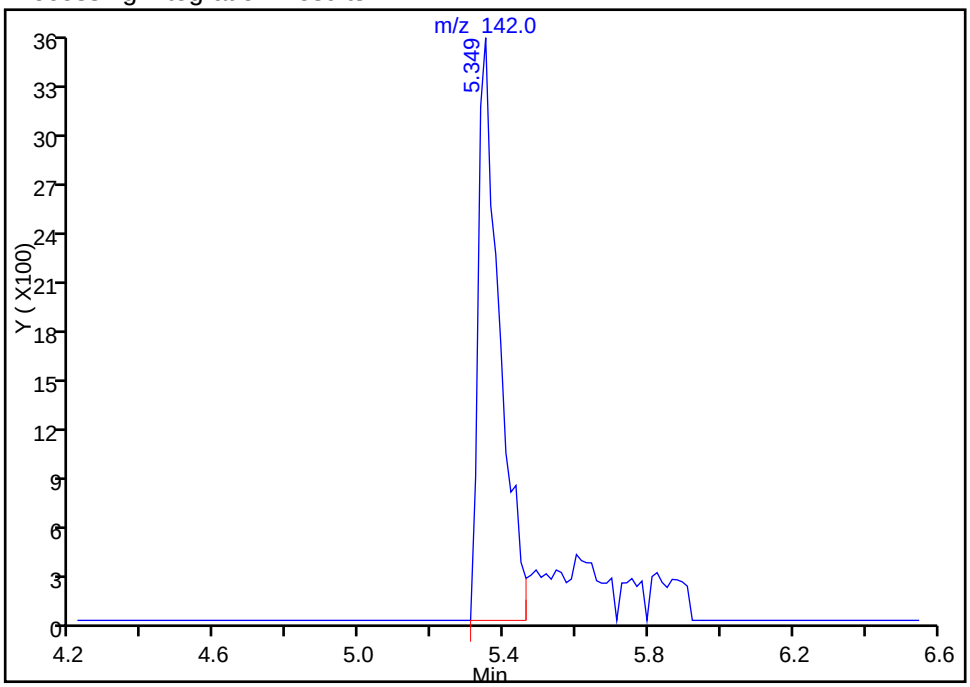
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3851.D
Injection Date: 07-Mar-2017 22:50:30 Instrument ID: VMSM
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

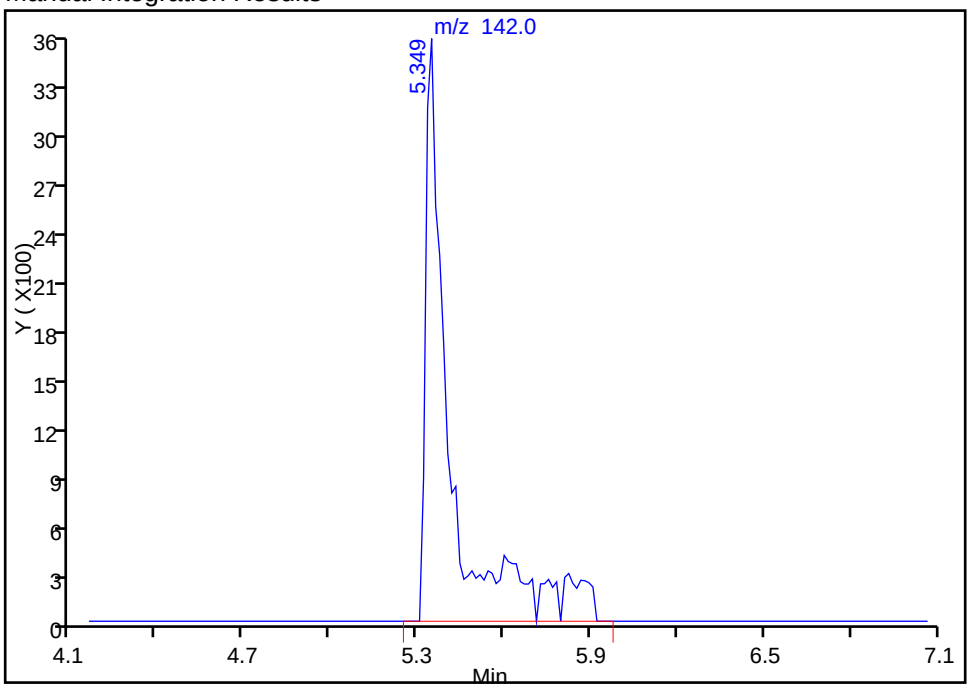
Processing Integration Results

RT: 5.35
Area: 14392
Amount: 6.707005
Amount Units: ug/l



Manual Integration Results

RT: 5.35
Area: 21047
Amount: 7.133941
Amount Units: ug/l



Reviewer: buettnera, 10-Apr-2017 09:11:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3852.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 07-Mar-2017 23:15:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009951-006
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSM
Sublist: chrom-5mL-8260_MSM*sub11

Method: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 10-Apr-2017 09:11:53 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK036

First Level Reviewer: buettnera Date: 09-Mar-2017 09:24:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.030	3.031	-0.001	99	108037	10.0	10.2	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	91	78788	10.0	10.3	
3 Chloromethane	50	3.324	3.324	0.000	100	141971	10.0	10.3	
118 Butadiene	39	3.449	3.464	-0.015	97	125381	10.0	9.73	
4 Vinyl chloride	62	3.477	3.478	-0.001	98	118227	10.0	9.60	
5 Bromomethane	94	3.952	3.952	0.000	89	36973	10.0	8.68	
6 Chloroethane	64	4.162	4.162	0.000	99	66475	10.0	6.83	
7 Trichlorofluoromethane	101	4.385	4.371	0.014	98	148070	10.0	9.90	
119 Dichlorofluoromethane	67	4.483	4.483	0.000	99	147771	10.0	10.1	
8 Ethyl ether	74	4.860	4.860	0.000	95	48909	10.0	9.94	
9 Ethanol	45	5.070	5.070	0.000	96	31170	400.0	408.3	
10 1,1-Dichloroethene	96	5.139	5.140	-0.001	98	95908	10.0	9.79	
11 Carbon disulfide	76	5.181	5.181	0.000	99	322386	10.0	10.0	
12 1,1,2-Trichloro-1,2,2-trif	151	5.195	5.195	0.000	88	104699	10.0	9.82	
13 Iodomethane	142	5.349	5.349	0.000	96	49992	10.0	10.2	M
14 Acrolein	56	5.600	5.600	0.000	100	50660	50.0	48.0	
16 3-Chloro-1-propene	39	5.782	5.782	0.000	93	103382	10.0	9.74	
17 Isopropyl alcohol	45	5.810	5.810	0.000	98	38838	100.0	97.8	
S 15 1,2-Dichloroethene, Total	96				0			19.8	
18 Methylene Chloride	84	5.908	5.908	0.000	95	93198	10.0	9.95	
19 Acetone	43	5.977	5.977	0.000	99	21265	10.0	10.8	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	98	106284	10.0	9.87	
20 Methyl acetate	74	6.131	6.117	0.014	99	45566	50.0	49.6	
22 Hexane	86	6.201	6.201	0.000	89	34343	10.0	9.90	
23 Methyl tert-butyl ether	73	6.243	6.243	0.000	97	204767	10.0	10.1	
24 2-Methyl-2-propanol	59	6.340	6.341	-0.001	98	63443	100.0	97.9	
25 Acetonitrile	41	6.536	6.536	0.000	100	76363	100.0	102.0	
26 Isopropyl ether	45	6.662	6.662	0.000	95	314904	10.0	10.3	
27 2-Chloro-1,3-butadiene	53	6.787	6.788	-0.001	90	152215	10.0	9.42	
28 1,1-Dichloroethane	63	6.815	6.815	0.000	96	168035	10.0	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	6.871	6.871	0.000	99	235681	100.0	103.5	
30 Tert-butyl ethyl ether	59	7.053	7.053	0.000	98	277482	10.0	10.2	
31 Vinyl acetate	43	7.081	7.081	0.000	97	159869	10.0	9.56	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	79	110901	10.0	9.96	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	91	140308	10.0	9.87	
34 Chlorobromomethane	128	7.597	7.598	-0.001	93	51658	10.0	9.90	
35 Cyclohexane	84	7.597	7.598	-0.001	91	173186	10.0	9.80	
36 Chloroform	83	7.653	7.653	0.000	93	153651	10.0	9.86	
37 Ethyl acetate	45	7.765	7.765	0.000	99	17545	20.0	19.5	
38 Carbon tetrachloride	117	7.807	7.807	0.000	95	146163	10.0	9.70	
39 Tetrahydrofuran	71	7.835	7.835	0.000	60	12988	20.0	19.3	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	96	88377	10.0	9.47	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	97	153971	10.0	9.73	
42 2-Butanone (MEK)	43	7.961	7.961	0.000	99	27826	10.0	9.97	
43 1,1-Dichloropropene	75	7.989	7.989	-0.001	94	128418	10.0	9.77	
121 Isooctane	57	8.086	8.086	0.000	99	467907	10.0	10.6	
113 n-Heptane	43	8.170	8.170	0.000	94	184313	10.0	9.46	
45 Benzene	78	8.240	8.240	0.000	96	387536	10.0	10.2	
46 Propionitrile	54	8.268	8.268	0.000	98	90630	100.0	102.7	
47 Methacrylonitrile	41	8.282	8.282	0.000	93	396602	100.0	108.4	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	95	214871	10.0	10.0	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	77	78681	10.0	9.71	
44 Isobutyl alcohol	42	8.394	8.394	0.000	93	42980	250.0	241.3	
50 1,2-Dichloroethane	62	8.435	8.436	-0.001	97	99290	10.0	9.97	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1869927	50.0	50.0	
53 Methylcyclohexane	55	8.785	8.785	0.000	89	173034	10.0	10.1	
52 Trichloroethene	95	8.785	8.785	0.000	71	106672	10.0	9.94	
54 n-Butanol	56	9.036	9.036	0.000	87	41802	250.0	229.9	
55 Dibromomethane	93	9.190	9.190	0.000	91	44325	10.0	9.81	
120 Ethyl acrylate	55	9.245	9.246	-0.001	99	75728	10.0	9.21	
56 1,2-Dichloropropane	63	9.273	9.274	-0.001	96	94016	10.0	9.87	
57 Dichlorobromomethane	83	9.315	9.315	0.000	99	100368	10.0	9.44	
58 Methyl methacrylate	69	9.441	9.441	0.000	95	78492	20.0	18.9	
59 1,4-Dioxane	88	9.511	9.511	0.000	96	12804	200.0	199.5	
60 2-Chloroethyl vinyl ether	63	9.818	9.818	0.000	94	39646	10.0	8.38	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	94	130060	10.0	9.65	
$ 62 Toluene-d8 (Surr)	98	10.069	10.070	-0.001	92	392290	10.0	10.1	
63 Toluene	92	10.111	10.111	0.000	99	272325	10.0	9.87	
64 2-Nitropropane	43	10.335	10.335	0.000	99	28384	20.0	19.1	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	97	55702	10.0	9.34	
66 Tetrachloroethene	164	10.475	10.475	-0.001	96	108628	10.0	9.69	
61 trans-1,3-Dichloropropene	75	10.475	10.475	-0.001	93	110776	10.0	9.34	
67 Ethyl methacrylate	69	10.586	10.586	0.000	91	71138	10.0	8.68	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	89	55261	10.0	9.41	
69 Chlorodibromomethane	129	10.796	10.796	0.000	90	88086	10.0	9.00	
70 1,3-Dichloropropane	76	10.880	10.880	0.000	94	118636	10.0	9.74	
72 Ethylene Dibromide	107	11.047	11.047	0.000	98	66769	10.0	9.16	
116 n-Butyl acetate	43	11.075	11.075	0.000	97	97922	10.0	9.29	
73 2-Hexanone	43	11.187	11.187	0.000	95	38126	10.0	9.28	
75 1-Chlorohexane	91	11.438	11.438	0.000	98	164583	10.0	9.84	
* 76 Chlorobenzene-d5	117	11.494	11.494	0.000	83	1579334	50.0	50.0	
78 Chlorobenzene	112	11.508	11.508	0.000	88	330101	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
77 Ethylbenzene	91	11.508	11.508	0.000	94	521264	10.0	9.89	
79 1,1,1,2-Tetrachloroethane	131	11.550	11.550	0.000	93	113658	10.0	9.49	
S 74 1,3-Dichloropropene, Total	75				0			19.0	
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	98	204397	10.0	9.72	
81 o-Xylene	106	12.039	12.039	0.000	95	195126	10.0	9.92	
82 Styrene	104	12.081	12.081	0.000	94	268253	10.0	9.38	
84 Bromoform	173	12.136	12.137	-0.001	99	48547	10.0	9.19	
85 Isopropylbenzene	105	12.318	12.318	0.000	94	530816	10.0	10.4	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.597	0.000	91	133975	10.0	10.0	
87 N-Propylbenzene	91	12.709	12.709	0.000	97	521794	10.0	10.2	
88 Bromobenzene	156	12.723	12.723	0.000	85	136102	10.0	10.2	
89 1,1,2,2-Tetrachloroethane	83	12.751	12.751	0.000	96	75715	10.0	9.92	
91 2-Chlorotoluene	91	12.877	12.877	0.000	97	356167	10.0	10.6	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	89	359765	10.0	10.4	
92 1,2,3-Trichloropropane	110	12.919	12.919	0.000	82	27850	10.0	10.3	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	87	22346	10.0	9.61	
94 Cyclohexanone	55	12.988	12.975	0.013	91	19418	100.0	100.8	
95 4-Chlorotoluene	91	13.030	13.030	0.000	95	323665	10.0	10.5	
96 tert-Butylbenzene	119	13.198	13.198	0.000	89	369983	10.0	10.4	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	96	312323	10.0	9.87	
98 sec-Butylbenzene	105	13.366	13.366	0.000	92	501268	10.0	10.1	
99 4-Isopropyltoluene	119	13.477	13.491	-0.014	98	397643	10.0	9.65	
100 1,3-Dichlorobenzene	146	13.603	13.603	0.000	96	257983	10.0	10.5	
* 101 1,4-Dichlorobenzene-d4	152	13.673	13.673	0.000	94	752219	50.0	50.0	
102 1,4-Dichlorobenzene	146	13.687	13.687	0.000	89	252651	10.0	10.5	
117 1,2,3-Trimethylbenzene	105	13.687	13.687	0.000	91	314784	10.0	10.2	
103 n-Butylbenzene	134	13.896	13.896	0.000	96	88556	10.0	8.66	
114 Benzyl chloride	126	13.910	13.910	0.000	97	36369	10.0	9.11	
104 1,2-Dichlorobenzene	146	14.092	14.092	0.000	99	230672	10.0	10.4	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	92	21803	10.0	9.75	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	97	16866	10.0	9.37	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	97	125837	10.0	9.62	
108 Hexachlorobutadiene	225	15.488	15.488	0.000	96	75666	10.0	9.73	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	95	102354	10.0	9.53	
110 Naphthalene	128	15.879	15.880	-0.001	96	184202	10.0	10.4	
111 1,2,3-Trichlorobenzene	180	16.075	16.075	0.000	97	90579	10.0	9.66	
S 112 Xylenes, Total	106				0			19.6	
S 115 Trihalomethanes, Total	1				0			37.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

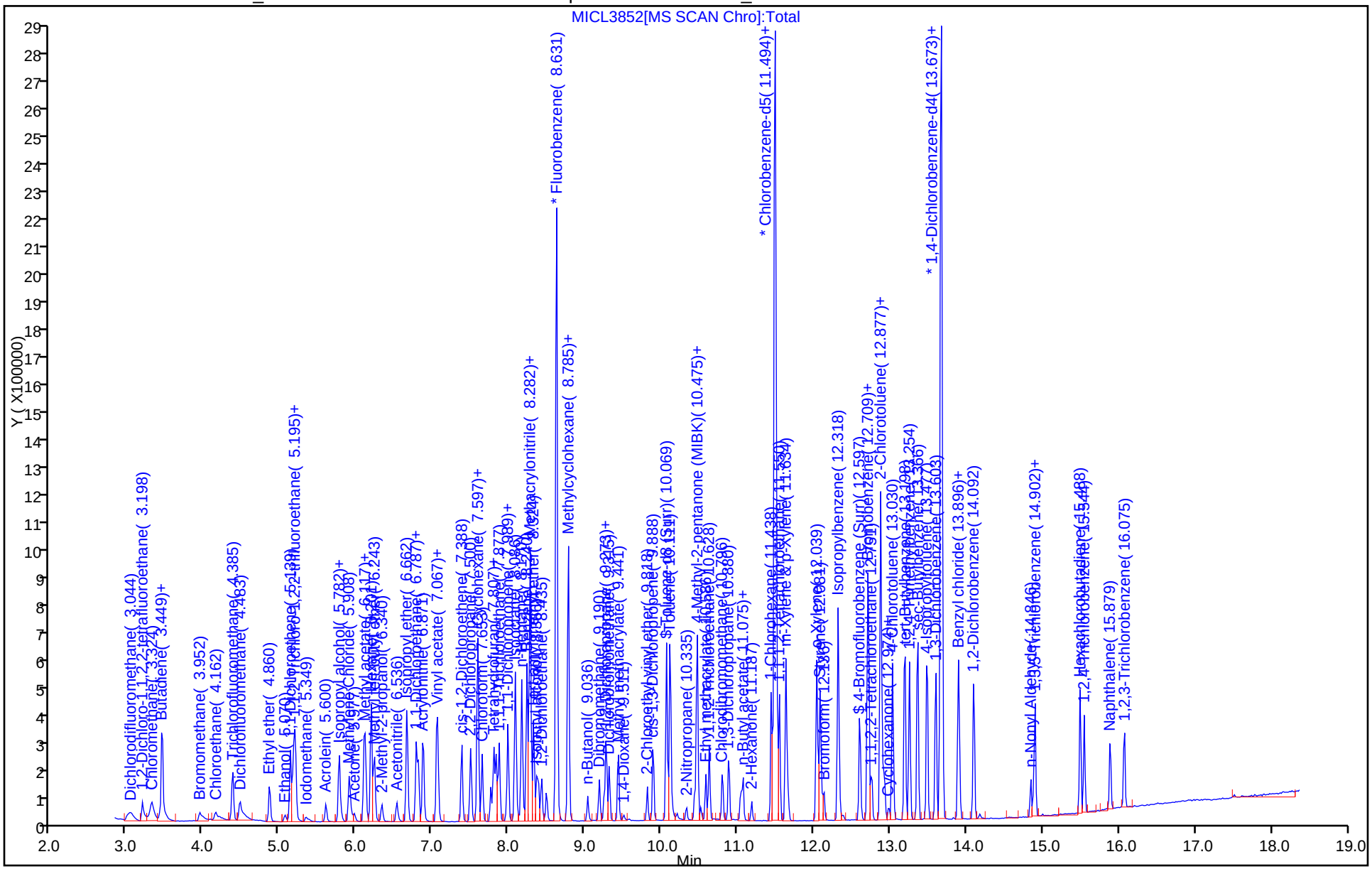
8260 Surr 25_00072	Amount Added: 2.00	Units: uL	
8260 NewWkMix_00209	Amount Added: 2.00	Units: uL	
I.S. Working_00144	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 10-Apr-2017 09:11:54 Chrom Revision: 2.2 13-Mar-2017 15:50:30

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3852.D

Injection Date:	07-Mar-2017 23:15:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

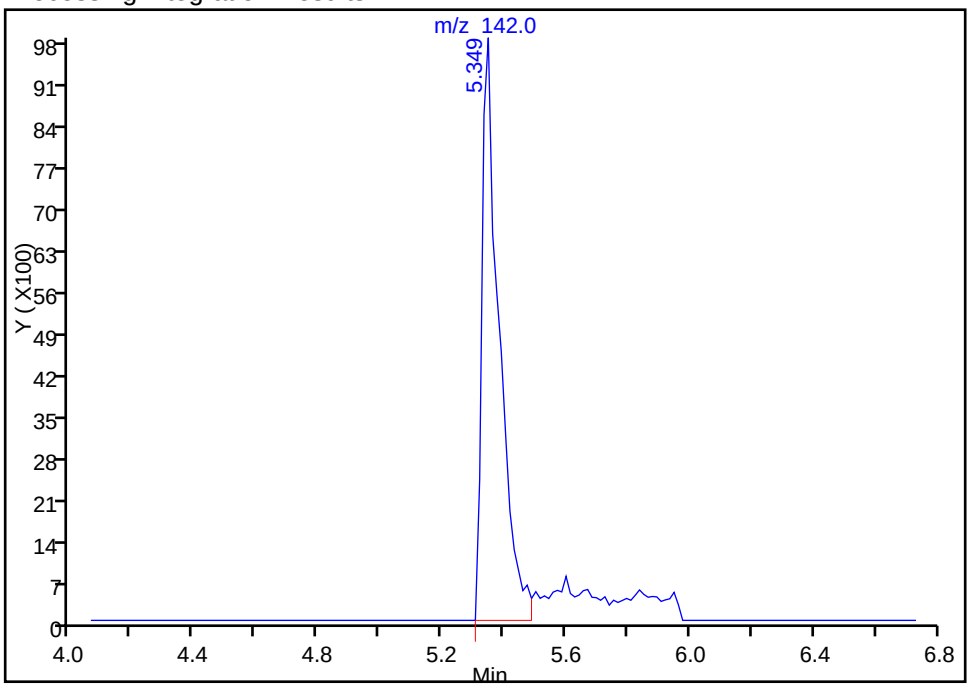
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3852.D
Injection Date: 07-Mar-2017 23:15:30 Instrument ID: VMSM
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

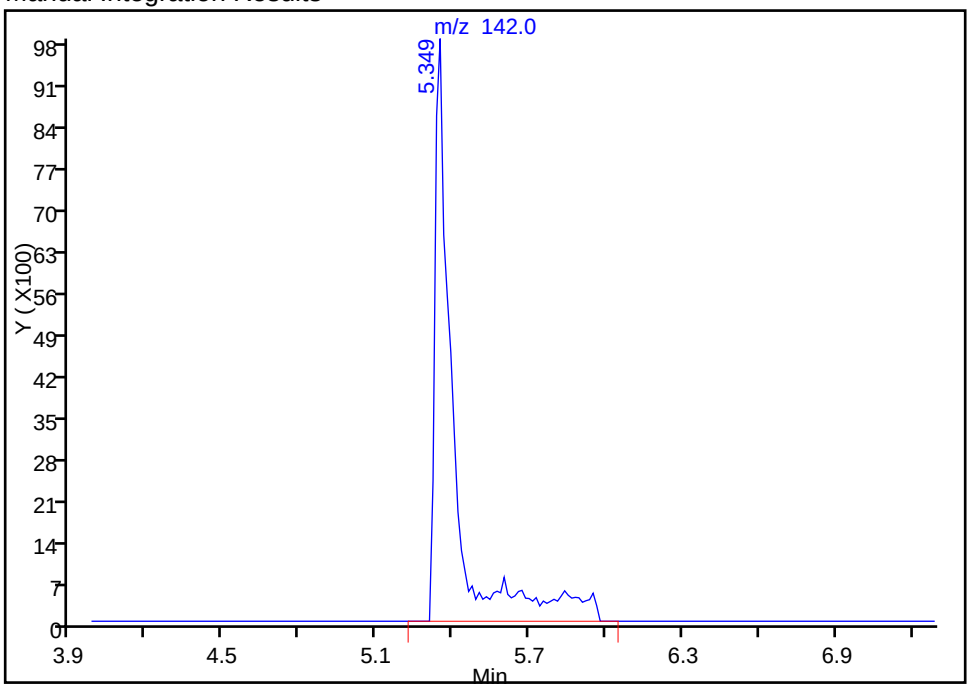
Processing Integration Results

RT: 5.35
Area: 38333
Amount: 9.640339
Amount Units: ug/l



Manual Integration Results

RT: 5.35
Area: 49992
Amount: 10.195608
Amount Units: ug/l



Reviewer: buettnera, 10-Apr-2017 09:11:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3853.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 07-Mar-2017 23:41:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009951-007
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSM
Sublist: chrom-5mL-8260_MSM*sub11

Method: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 10-Apr-2017 09:11:54 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK036

First Level Reviewer: buettnera Date: 09-Mar-2017 09:24:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.031	3.031	0.000	99	206714	20.0	19.4	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	92	153594	20.0	19.9	
3 Chloromethane	50	3.324	3.324	0.000	99	270622	20.0	19.5	
118 Butadiene	39	3.450	3.464	-0.014	97	259379	20.0	20.0	
4 Vinyl chloride	62	3.464	3.478	-0.014	98	236792	20.0	19.1	
5 Bromomethane	94	3.952	3.952	0.000	90	79095	20.0	18.4	
6 Chloroethane	64	4.148	4.162	-0.014	99	134322	20.0	25.8	
7 Trichlorofluoromethane	101	4.385	4.371	0.014	98	304241	20.0	20.2	
119 Dichlorofluoromethane	67	4.483	4.483	0.000	100	289461	20.0	19.7	
8 Ethyl ether	74	4.860	4.860	0.000	96	100617	20.0	20.3	
9 Ethanol	45	5.070	5.070	0.000	95	63965	800.0	831.2	
10 1,1-Dichloroethene	96	5.140	5.140	0.000	97	194195	20.0	19.7	
11 Carbon disulfide	76	5.181	5.181	0.000	99	661471	20.0	20.4	
12 1,1,2-Trichloro-1,2,2-trif	151	5.195	5.195	0.000	89	212956	20.0	19.8	
13 Iodomethane	142	5.349	5.349	0.000	97	125087	20.0	18.0	M
14 Acrolein	56	5.600	5.600	0.000	99	109389	100.0	102.8	
16 3-Chloro-1-propene	39	5.782	5.782	0.000	93	218245	20.0	20.4	
17 Isopropyl alcohol	45	5.810	5.810	0.000	98	83709	200.0	209.1	
S 15 1,2-Dichloroethene, Total	96				0			40.0	
18 Methylene Chloride	84	5.908	5.908	0.000	96	188877	20.0	20.0	
19 Acetone	43	5.978	5.977	0.001	100	41994	20.0	21.2	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	99	216878	20.0	20.0	
20 Methyl acetate	74	6.131	6.117	0.014	99	95642	100.0	103.2	
22 Hexane	86	6.201	6.201	0.000	92	69395	20.0	19.9	
23 Methyl tert-butyl ether	73	6.243	6.243	0.000	97	422834	20.0	20.7	
24 2-Methyl-2-propanol	59	6.341	6.341	0.000	99	133260	200.0	204.0	
25 Acetonitrile	41	6.536	6.536	0.000	99	154005	200.0	204.1	
26 Isopropyl ether	45	6.662	6.662	0.000	95	641076	20.0	20.9	
27 2-Chloro-1,3-butadiene	53	6.788	6.788	0.000	91	323534	20.0	19.9	
28 1,1-Dichloroethane	63	6.816	6.815	0.001	95	344111	20.0	20.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	6.871	6.871	0.000	99	484953	200.0	211.3	
30 Tert-butyl ethyl ether	59	7.053	7.053	0.000	98	572026	20.0	20.9	
31 Vinyl acetate	43	7.081	7.081	0.000	98	344937	20.0	20.5	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	78	224600	20.0	20.0	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	92	289775	20.0	20.2	
35 Cyclohexane	84	7.598	7.598	0.000	91	359375	20.0	20.2	
34 Chlorobromomethane	128	7.598	7.598	0.000	92	105663	20.0	20.1	
36 Chloroform	83	7.654	7.653	0.001	94	321277	20.0	20.4	
37 Ethyl acetate	45	7.765	7.765	0.000	99	38193	40.0	42.0	
38 Carbon tetrachloride	117	7.807	7.807	0.000	96	304305	20.0	20.0	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	96	190652	20.0	20.3	
39 Tetrahydrofuran	71	7.835	7.835	0.000	92	27768	40.0	40.9	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	98	324536	20.0	20.3	
42 2-Butanone (MEK)	43	7.961	7.961	0.000	100	57495	20.0	20.4	
43 1,1-Dichloropropene	75	7.989	7.989	0.000	94	266885	20.0	20.1	
121 Isooctane	57	8.086	8.086	0.000	99	938853	20.0	21.2	
113 n-Heptane	43	8.170	8.170	0.000	94	368027	20.0	18.7	
45 Benzene	78	8.240	8.240	0.000	97	786337	20.0	20.5	
46 Propionitrile	54	8.268	8.268	0.000	99	181031	200.0	203.5	
47 Methacrylonitrile	41	8.282	8.282	0.000	93	828707	200.0	224.7	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	96	448313	20.0	20.7	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	77	163938	20.0	20.1	
44 Isobutyl alcohol	42	8.394	8.394	0.000	96	90904	500.0	506.4	
50 1,2-Dichloroethane	62	8.436	8.436	0.000	96	202379	20.0	20.2	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1884886	50.0	50.0	
52 Trichloroethene	95	8.785	8.785	0.000	71	220178	20.0	20.4	
53 Methylcyclohexane	55	8.785	8.785	0.000	89	354881	20.0	20.5	
54 n-Butanol	56	9.036	9.036	0.000	87	93662	500.0	511.0	
55 Dibromomethane	93	9.190	9.190	0.000	90	91882	20.0	20.2	
120 Ethyl acrylate	55	9.246	9.246	0.000	99	166157	20.0	20.0	
56 1,2-Dichloropropane	63	9.274	9.274	0.000	96	193739	20.0	20.2	
57 Dichlorobromomethane	83	9.315	9.315	0.000	99	211759	20.0	19.8	
58 Methyl methacrylate	69	9.441	9.441	0.000	95	168409	40.0	40.2	
59 1,4-Dioxane	88	9.511	9.511	0.000	95	26057	400.0	402.7	
60 2-Chloroethyl vinyl ether	63	9.818	9.818	0.000	93	81715	20.0	24.8	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	95	275343	20.0	20.3	
$ 62 Toluene-d8 (Surr)	98	10.070	10.070	0.000	92	805452	20.0	21.2	
63 Toluene	92	10.112	10.111	0.001	99	541655	20.0	20.0	
64 2-Nitropropane	43	10.335	10.335	0.000	98	62289	40.0	37.0	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	97	117910	20.0	20.2	
61 trans-1,3-Dichloropropene	75	10.475	10.475	0.000	92	237323	20.0	20.4	
66 Tetrachloroethene	164	10.475	10.475	0.000	95	220916	20.0	20.1	
67 Ethyl methacrylate	69	10.586	10.586	0.000	92	157112	20.0	19.6	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	88	114800	20.0	20.0	
69 Chlorodibromomethane	129	10.796	10.796	0.000	90	189329	20.0	19.8	
70 1,3-Dichloropropane	76	10.880	10.880	0.000	95	240241	20.0	20.1	
72 Ethylene Dibromide	107	11.047	11.047	0.000	99	144418	20.0	20.2	
116 n-Butyl acetate	43	11.075	11.075	0.000	97	207882	20.0	20.2	
73 2-Hexanone	43	11.187	11.187	0.000	95	81406	20.0	20.2	
75 1-Chlorohexane	91	11.438	11.438	0.000	97	330326	20.0	20.2	
* 76 Chlorobenzene-d5	117	11.494	11.494	0.000	84	1546141	50.0	50.0	
77 Ethylbenzene	91	11.508	11.508	0.000	93	1027197	20.0	19.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Chlorobenzene	112	11.508	11.508	0.000	94	656864	20.0	21.2	
79 1,1,1,2-Tetrachloroethane	131	11.550	11.550	0.000	94	235091	20.0	20.0	
S 74 1,3-Dichloropropene, Total	75				0			40.7	
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	98	417328	20.0	20.3	
81 o-Xylene	106	12.039	12.039	0.000	95	388881	20.0	20.2	
82 Styrene	104	12.081	12.081	0.000	93	573686	20.0	20.5	
84 Bromoform	173	12.137	12.137	0.000	98	104353	20.0	19.8	
85 Isopropylbenzene	105	12.318	12.318	0.000	94	1061619	20.0	20.8	
$ 86 4-Bromofluorobenzene (Surr	95	12.598	12.597	0.001	91	266518	20.0	19.9	
87 N-Propylbenzene	91	12.709	12.709	0.000	98	1070611	20.0	20.9	
88 Bromobenzene	156	12.723	12.723	0.000	89	269440	20.0	20.2	
89 1,1,2,2-Tetrachloroethane	83	12.751	12.751	0.000	96	153257	20.0	20.1	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	89	746883	20.0	21.5	
91 2-Chlorotoluene	91	12.877	12.877	0.000	95	722271	20.0	21.4	
92 1,2,3-Trichloropropane	110	12.919	12.919	0.000	81	54500	20.0	20.1	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	86	45138	20.0	19.4	
94 Cyclohexanone	55	12.975	12.975	0.000	91	37190	200.0	192.8	
95 4-Chlorotoluene	91	13.031	13.030	0.000	95	645656	20.0	21.0	
96 tert-Butylbenzene	119	13.198	13.198	0.000	89	766301	20.0	21.5	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	95	676437	20.0	21.4	
98 sec-Butylbenzene	105	13.366	13.366	0.000	93	1043794	20.0	21.0	
99 4-Isopropyltoluene	119	13.477	13.491	-0.014	97	861785	20.0	20.9	
100 1,3-Dichlorobenzene	146	13.603	13.603	0.000	97	513149	20.0	20.8	
* 101 1,4-Dichlorobenzene-d4	152	13.673	13.673	0.000	93	752765	50.0	50.0	
117 1,2,3-Trimethylbenzene	105	13.687	13.687	0.000	81	668148	20.0	21.6	
102 1,4-Dichlorobenzene	146	13.687	13.687	0.000	86	502324	20.0	20.9	
103 n-Butylbenzene	134	13.896	13.896	0.000	96	198015	20.0	19.3	
114 Benzyl chloride	126	13.910	13.910	0.000	97	78022	20.0	19.5	
104 1,2-Dichlorobenzene	146	14.092	14.092	0.000	99	453213	20.0	20.5	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	91	48865	20.0	20.0	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	95	35171	20.0	19.5	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	97	268346	20.0	20.5	
108 Hexachlorobutadiene	225	15.489	15.488	0.001	97	155523	20.0	20.0	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	95	220200	20.0	20.5	
110 Naphthalene	128	15.880	15.880	0.000	97	367933	20.0	20.8	
111 1,2,3-Trichlorobenzene	180	16.075	16.075	0.000	97	191272	20.0	20.4	
S 112 Xylenes, Total	106				0			40.5	
S 115 Trihalomethanes, Total	1				0			79.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

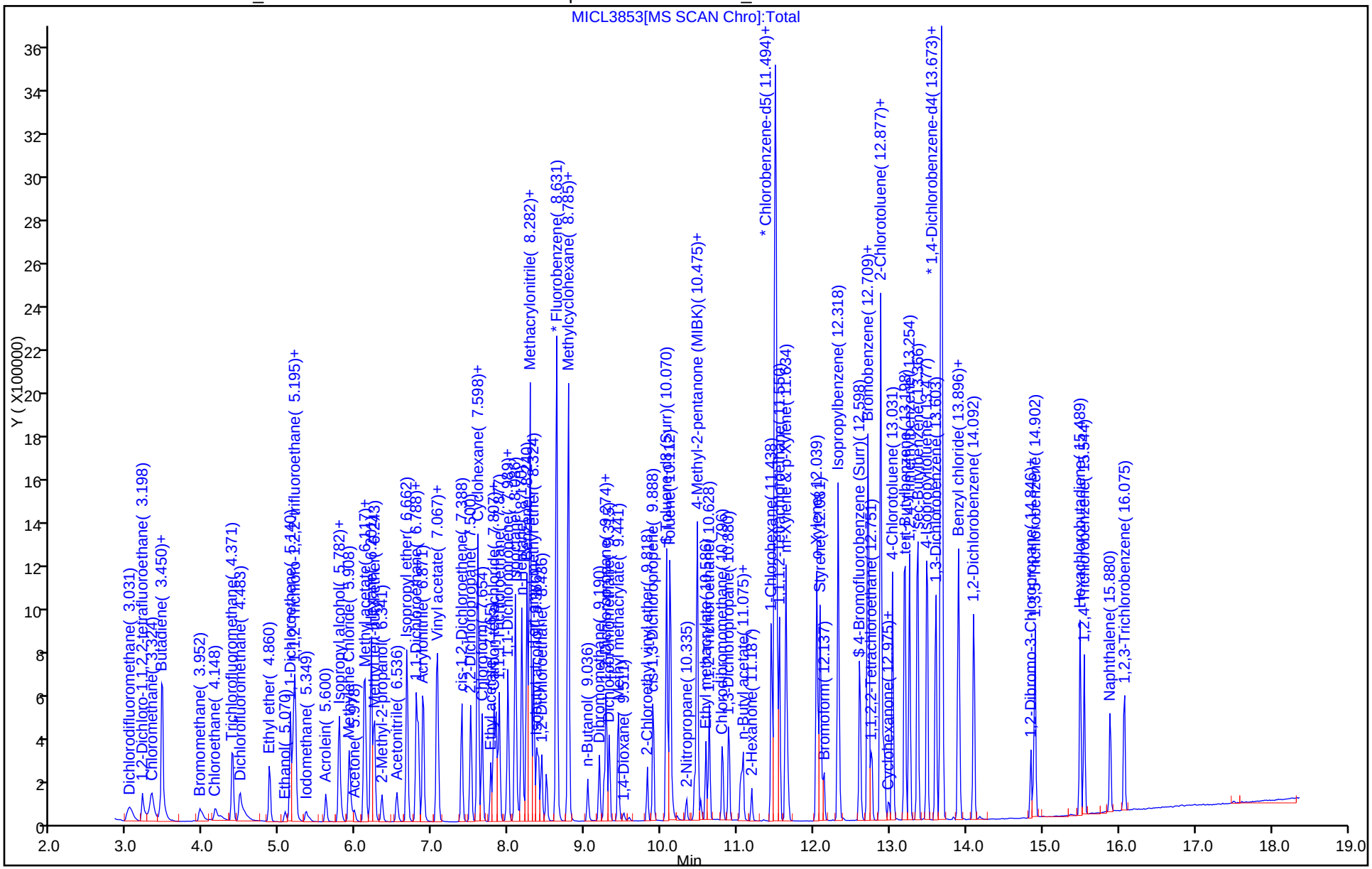
8260 Surr 25_00072	Amount Added: 4.00	Units: uL	
8260 NewWkMix_00209	Amount Added: 4.00	Units: uL	
I.S. Working_00144	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 10-Apr-2017 09:11:55 Chrom Revision: 2.2 13-Mar-2017 15:50:30

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3853.D

Injection Date:	07-Mar-2017 23:41:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

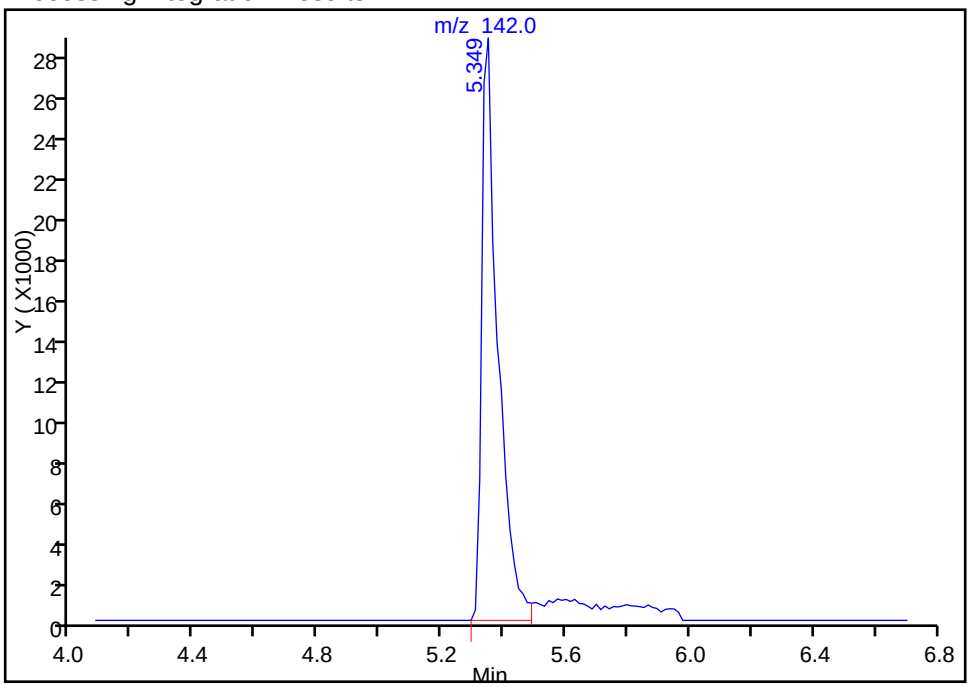
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3853.D
Injection Date: 07-Mar-2017 23:41:30 Instrument ID: VMSM
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

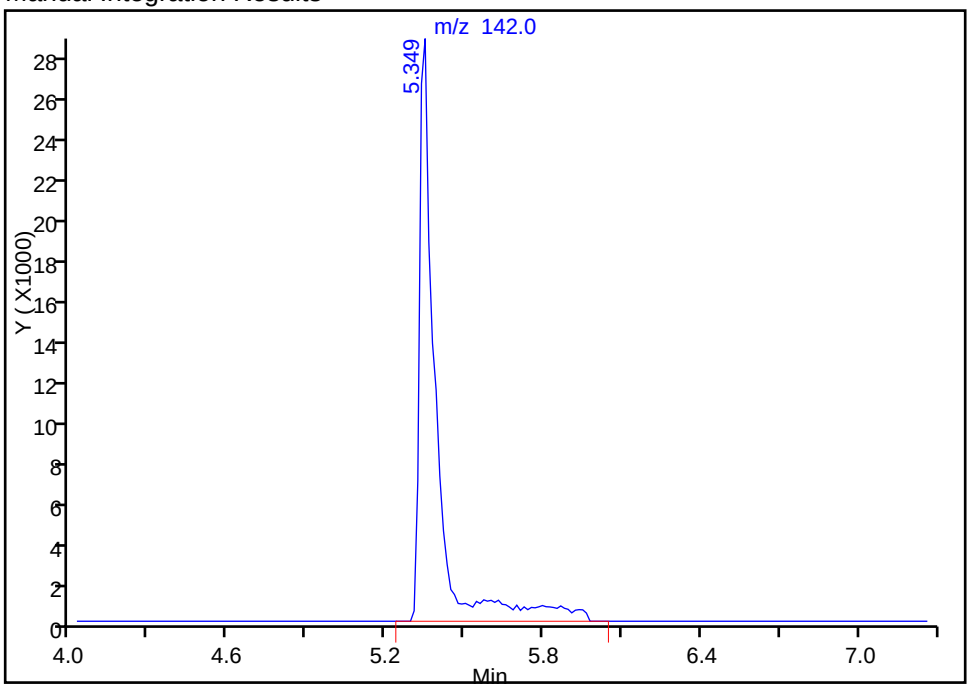
Processing Integration Results

RT: 5.35
Area: 104438
Amount: 16.958793
Amount Units: ug/l



Manual Integration Results

RT: 5.35
Area: 125087
Amount: 18.014188
Amount Units: ug/l



Reviewer: buettnera, 10-Apr-2017 09:11:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3854.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 08-Mar-2017 00:06:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009951-008
Misc. Info.: ICIS
Operator ID: JDH Instrument ID: VMSM
Sublist: chrom-5mL-8260_MSM*sub11

Method: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 10-Apr-2017 09:11:56 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK036

First Level Reviewer: buettnera Date: 09-Mar-2017 08:18:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.031	3.031	0.000	99	544573	50.0	52.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	92	399165	50.0	52.5	
3 Chloromethane	50	3.324	3.324	0.000	99	698385	50.0	51.3	
118 Butadiene	39	3.464	3.464	0.000	99	694451	50.0	54.4	
4 Vinyl chloride	62	3.478	3.478	0.000	98	639547	50.0	52.4	
5 Bromomethane	94	3.952	3.952	0.000	90	212612	50.0	50.4	
6 Chloroethane	64	4.162	4.162	0.000	99	282074	50.0	60.0	
7 Trichlorofluoromethane	101	4.371	4.371	0.000	98	764019	50.0	51.5	
119 Dichlorofluoromethane	67	4.483	4.483	0.000	99	759252	50.0	52.4	
8 Ethyl ether	74	4.860	4.860	0.000	95	250918	50.0	51.5	
9 Ethanol	45	5.070	5.070	0.000	96	149040	2000.0	1970.6	
10 1,1-Dichloroethene	96	5.140	5.140	0.000	97	505531	50.0	52.1	
11 Carbon disulfide	76	5.181	5.181	0.000	99	1691529	50.0	53.0	
12 1,1,2-Trichloro-1,2,2-trif	151	5.195	5.195	0.000	88	552858	50.0	52.4	
13 Iodomethane	142	5.349	5.349	0.000	97	414331	50.0	48.3	M
14 Acrolein	56	5.600	5.600	0.000	100	279648	250.0	267.4	
16 3-Chloro-1-propene	39	5.782	5.782	0.000	93	550387	50.0	52.4	
17 Isopropyl alcohol	45	5.810	5.810	0.000	98	198912	500.0	505.5	
18 Methylene Chloride	84	5.908	5.908	0.000	96	476450	50.0	51.3	
19 Acetone	43	5.977	5.977	0.000	99	87772	50.0	45.1	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	99	547322	50.0	51.3	
20 Methyl acetate	74	6.117	6.117	0.000	99	230904	250.0	253.5	
22 Hexane	86	6.201	6.201	0.000	91	178298	50.0	51.9	
23 Methyl tert-butyl ether	73	6.243	6.243	0.000	94	1055252	50.0	52.5	
24 2-Methyl-2-propanol	59	6.341	6.341	0.000	99	322400	500.0	502.2	
25 Acetonitrile	41	6.536	6.536	0.000	99	379622	500.0	511.8	
26 Isopropyl ether	45	6.662	6.662	0.000	94	1629370	50.0	54.1	
27 2-Chloro-1,3-butadiene	53	6.788	6.788	0.000	91	877636	50.0	54.8	
28 1,1-Dichloroethane	63	6.815	6.815	0.000	96	879140	50.0	52.9	
29 Acrylonitrile	53	6.871	6.871	0.000	98	1181767	500.0	523.8	

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	7.053	7.053	0.000	98	1428452	50.0	53.0	
31 Vinyl acetate	43	7.081	7.081	0.000	98	907856	50.0	54.8	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	78	577773	50.0	52.4	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	91	738993	50.0	52.5	
34 Chlorobromomethane	128	7.598	7.598	0.000	93	269894	50.0	52.2	
35 Cyclohexane	84	7.598	7.598	0.000	91	913705	50.0	52.2	
36 Chloroform	83	7.653	7.653	0.000	93	823137	50.0	53.3	
37 Ethyl acetate	45	7.765	7.765	0.000	99	91546	100.0	102.5	
38 Carbon tetrachloride	117	7.807	7.807	0.000	96	797330	50.0	53.4	
39 Tetrahydrofuran	71	7.835	7.835	0.000	92	69282	100.0	103.8	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	96	483393	50.0	52.3	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	98	833201	50.0	53.2	
42 2-Butanone (MEK)	43	7.961	7.961	0.000	99	142989	50.0	51.7	
43 1,1-Dichloropropene	75	7.989	7.989	0.000	94	686986	50.0	52.7	
121 Isooctane	57	8.086	8.086	0.000	100	2360638	50.0	54.2	
113 n-Heptane	43	8.170	8.170	0.000	95	1091295	50.0	56.5	
45 Benzene	78	8.240	8.240	0.000	98	1967066	50.0	52.2	
46 Propionitrile	54	8.268	8.268	0.000	97	453437	500.0	518.7	
47 Methacrylonitrile	41	8.282	8.282	0.000	92	1936916	500.0	534.4	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	96	1125142	50.0	52.9	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	77	409902	50.0	51.1	
44 Isobutyl alcohol	42	8.394	8.394	0.000	95	226902	1250.0	1286.1	
50 1,2-Dichloroethane	62	8.436	8.436	0.000	96	511969	50.0	51.9	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1852513	50.0	50.0	
53 Methylcyclohexane	55	8.785	8.785	0.000	89	893386	50.0	52.4	
52 Trichloroethene	95	8.785	8.785	0.000	73	565240	50.0	53.2	
54 n-Butanol	56	9.036	9.036	0.000	87	234491	1250.0	1301.6	
55 Dibromomethane	93	9.190	9.190	0.000	90	231087	50.0	51.6	
120 Ethyl acrylate	55	9.246	9.246	0.000	100	439622	50.0	53.9	
56 1,2-Dichloropropane	63	9.274	9.274	0.000	96	497140	50.0	52.7	
57 Dichlorobromomethane	83	9.315	9.315	0.000	99	561872	50.0	53.3	
58 Methyl methacrylate	69	9.441	9.441	0.000	94	446895	100.0	108.6	
59 1,4-Dioxane	88	9.511	9.511	0.000	94	64713	1000.0	1017.5	
60 2-Chloroethyl vinyl ether	63	9.818	9.818	0.000	93	160331	50.0	56.9	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	95	713612	50.0	53.4	
$ 62 Toluene-d8 (Surr)	98	10.070	10.070	0.000	92	2003848	50.0	54.1	
63 Toluene	92	10.111	10.111	0.000	99	1391821	50.0	52.9	
64 2-Nitropropane	43	10.335	10.335	0.000	98	169263	100.0	94.8	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	97	305086	50.0	53.7	
66 Tetrachloroethene	164	10.475	10.475	0.000	95	566706	50.0	53.0	
61 trans-1,3-Dichloropropene	75	10.475	10.475	0.000	93	607332	50.0	53.7	
67 Ethyl methacrylate	69	10.586	10.586	0.000	91	428194	50.0	54.8	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	88	291761	50.0	52.1	
69 Chlorodibromomethane	129	10.796	10.796	0.000	90	500670	50.0	53.7	
70 1,3-Dichloropropane	76	10.880	10.880	0.000	95	601908	50.0	51.8	
72 Ethylene Dibromide	107	11.047	11.047	0.000	98	366378	50.0	52.7	
116 n-Butyl acetate	43	11.075	11.075	0.000	97	540762	50.0	53.8	
73 2-Hexanone	43	11.187	11.187	0.000	95	207560	50.0	53.0	
75 1-Chlorohexane	91	11.438	11.438	0.000	98	856790	50.0	53.8	
* 76 Chlorobenzene-d5	117	11.494	11.494	0.000	83	1505472	50.0	50.0	
78 Chlorobenzene	112	11.508	11.508	0.000	86	1619832	50.0	53.7	
77 Ethylbenzene	91	11.508	11.508	0.000	91	2498906	50.0	49.7	

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	11.550	11.550	0.000	93	614794	50.0	53.8	
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	97	1091591	50.0	54.5	
81 o-Xylene	106	12.039	12.039	0.000	95	1022384	50.0	54.5	
82 Styrene	104	12.081	12.081	0.000	94	1563368	50.0	57.4	
84 Bromoform	173	12.137	12.137	0.000	98	279408	50.0	53.3	
85 Isopropylbenzene	105	12.318	12.318	0.000	95	2616131	50.0	51.7	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.597	0.000	94	677181	50.0	51.0	
87 N-Propylbenzene	91	12.709	12.709	0.000	96	2697261	50.0	53.1	
88 Bromobenzene	156	12.723	12.723	0.000	85	693228	50.0	52.4	
89 1,1,2,2-Tetrachloroethane	83	12.751	12.751	0.000	96	391337	50.0	51.7	
91 2-Chlorotoluene	91	12.877	12.877	0.000	96	1825107	50.0	54.5	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	90	1910234	50.0	55.5	
92 1,2,3-Trichloropropane	110	12.919	12.919	0.000	85	135986	50.0	50.5	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	94	121332	50.0	52.6	
94 Cyclohexanone	55	12.975	12.975	0.000	91	93299	500.0	487.8	
95 4-Chlorotoluene	91	13.030	13.030	0.000	94	1654825	50.0	54.3	
96 tert-Butylbenzene	119	13.198	13.198	0.000	89	2018087	50.0	57.0	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	95	1753385	50.0	55.8	
98 sec-Butylbenzene	105	13.366	13.366	0.000	93	2692059	50.0	54.5	
99 4-Isopropyltoluene	119	13.491	13.491	0.000	97	2295562	50.0	56.2	
100 1,3-Dichlorobenzene	146	13.603	13.603	0.000	97	1319237	50.0	53.9	
* 101 1,4-Dichlorobenzene-d4	152	13.673	13.673	0.000	93	746528	50.0	50.0	
102 1,4-Dichlorobenzene	146	13.687	13.687	0.000	88	1281165	50.0	53.7	
117 1,2,3-Trimethylbenzene	105	13.687	13.687	0.000	77	1682684	50.0	54.8	
103 n-Butylbenzene	134	13.896	13.896	0.000	96	556517	50.0	54.8	
114 Benzyl chloride	126	13.910	13.910	0.000	97	213239	50.0	53.8	
104 1,2-Dichlorobenzene	146	14.092	14.092	0.000	99	1176851	50.0	53.6	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	92	136095	50.0	49.9	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	97	93060	50.0	52.1	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	97	670197	50.0	51.6	
108 Hexachlorobutadiene	225	15.488	15.488	0.000	96	416557	50.0	54.0	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	95	535921	50.0	50.3	
110 Naphthalene	128	15.880	15.880	0.000	97	825140	50.0	47.1	
111 1,2,3-Trichlorobenzene	180	16.075	16.075	0.000	98	455320	50.0	48.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

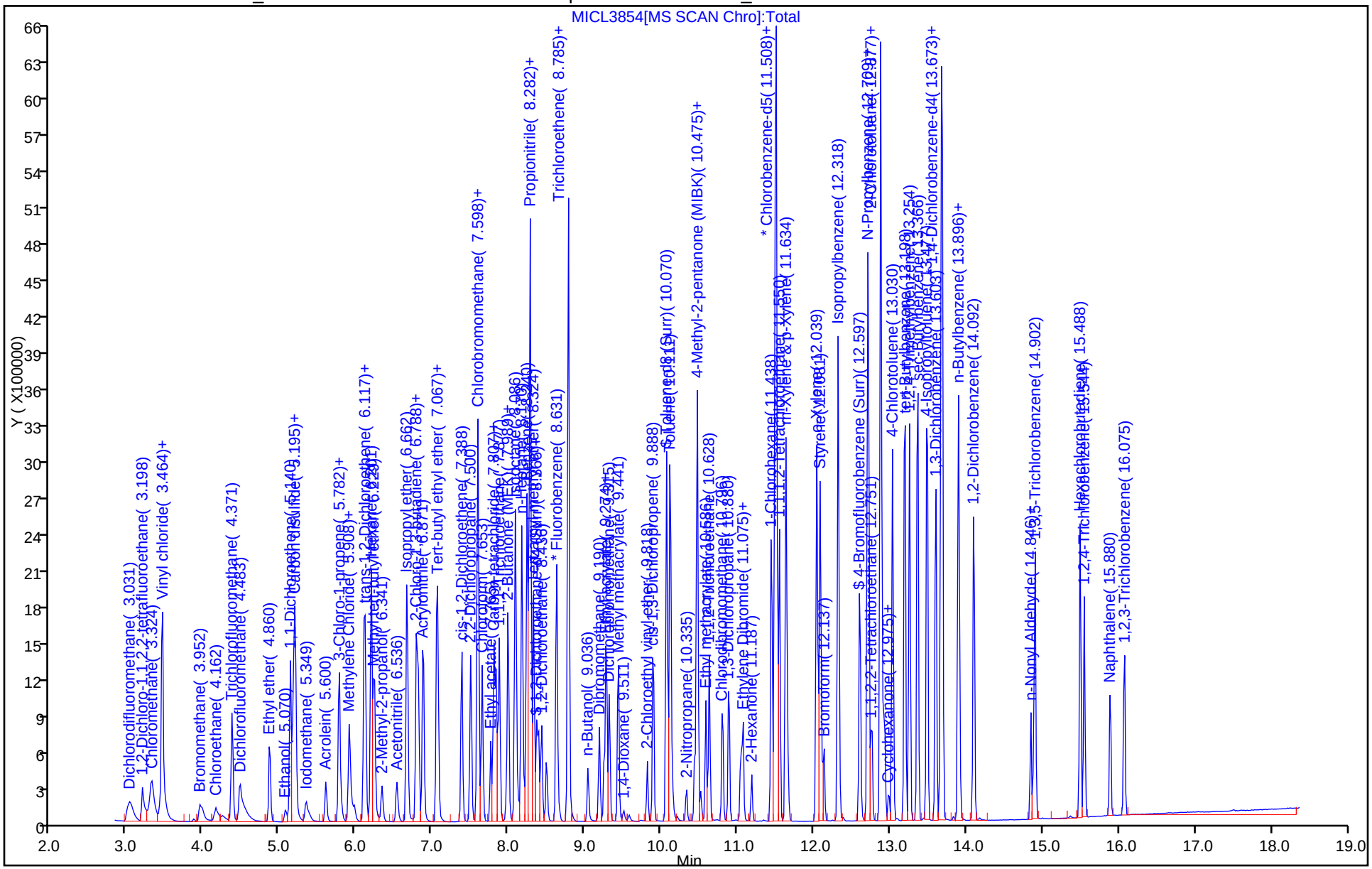
8260 Surr 25_00072	Amount Added: 10.00	Units: uL	
8260 NewWkMix_00209	Amount Added: 10.00	Units: uL	
I.S. Working_00144	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 10-Apr-2017 09:11:57 Chrom Revision: 2.2 13-Mar-2017 15:50:30

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3854.D

Injection Date:	08-Mar-2017 00:06:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	ICIS			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

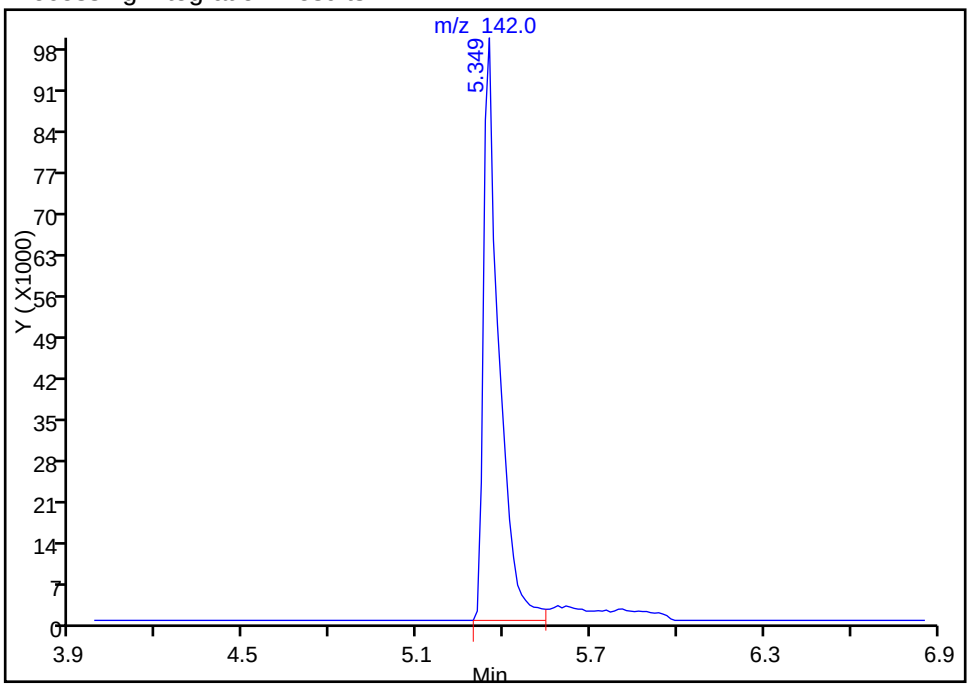
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3854.D
Injection Date: 08-Mar-2017 00:06:30 Instrument ID: VMSM
Lims ID: ICIS
Client ID:
Operator ID: JDH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

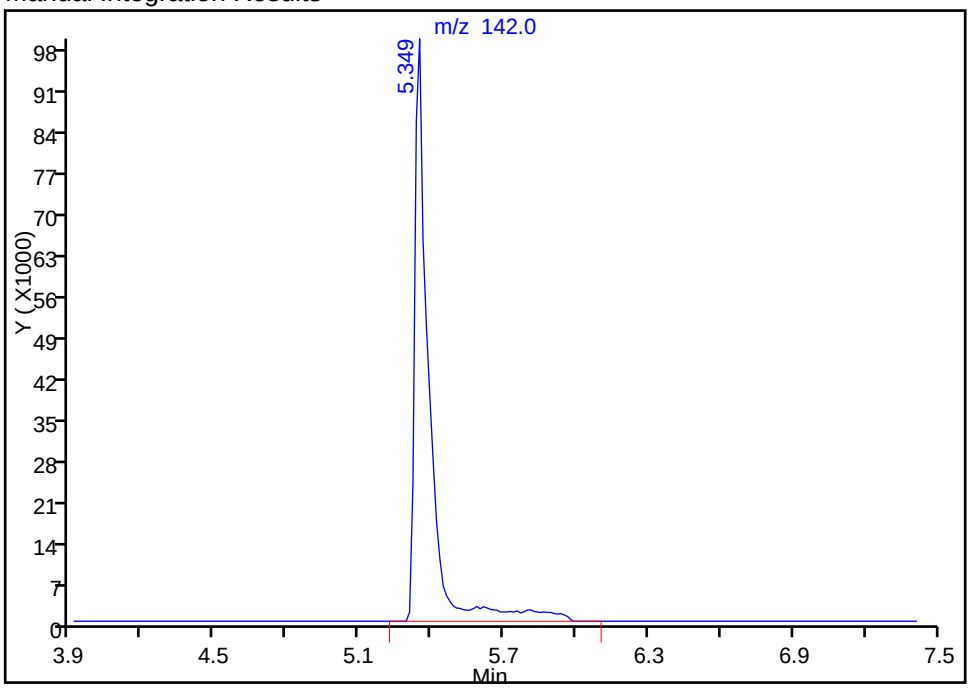
Processing Integration Results

RT: 5.35
Area: 371441
Amount: 45.805829
Amount Units: ug/l



Manual Integration Results

RT: 5.35
Area: 414331
Amount: 48.264274
Amount Units: ug/l



Reviewer: buettnera, 10-Apr-2017 09:11:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3855.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Mar-2017 00:31:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009951-009
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSM
Sublist: chrom-5mL-8260_MSM*sub11

Method: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 10-Apr-2017 09:11:58 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK036

First Level Reviewer: buettnera Date: 09-Mar-2017 08:20:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.030	3.031	-0.001	100	1094772	100.0	96.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	91	799807	100.0	97.0	
3 Chloromethane	50	3.324	3.324	0.000	99	1418101	100.0	95.9	
118 Butadiene	39	3.463	3.464	-0.001	98	1425785	100.0	102.9	
4 Vinyl chloride	62	3.463	3.478	-0.015	98	1323324	100.0	100.0	
5 Bromomethane	94	3.952	3.952	0.000	90	501754	100.0	109.5	
6 Chloroethane	64	4.176	4.162	0.014	99	507847	100.0	93.7	
7 Trichlorofluoromethane	101	4.371	4.371	0.000	98	1535907	100.0	95.5	
119 Dichlorofluoromethane	67	4.483	4.483	0.000	99	1540868	100.0	98.1	
8 Ethyl ether	74	4.860	4.860	0.000	95	529672	100.0	100.2	
9 Ethanol	45	5.069	5.070	-0.001	96	303247	4000.0	3694.2	
10 1,1-Dichloroethene	96	5.139	5.140	-0.001	97	1060654	100.0	100.7	
11 Carbon disulfide	76	5.181	5.181	0.000	99	3483196	100.0	100.5	
12 1,1,2-Trichloro-1,2,2-trif	151	5.195	5.195	0.000	88	1157794	100.0	101.0	
13 Iodomethane	142	5.349	5.349	0.000	97	1038780	100.0	101.6	M
14 Acrolein	56	5.600	5.600	0.000	100	575945	500.0	507.3	
16 3-Chloro-1-propene	39	5.782	5.782	0.000	93	1153207	100.0	101.1	
17 Isopropyl alcohol	45	5.810	5.810	0.000	98	415613	1000.0	973.2	
S 15 1,2-Dichloroethene, Total	96				0			198.7	
18 Methylene Chloride	84	5.907	5.908	-0.001	95	992627	100.0	98.5	
19 Acetone	43	5.977	5.977	0.000	100	178181	100.0	84.3	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	97	1150454	100.0	99.3	
20 Methyl acetate	74	6.117	6.117	0.000	98	493918	500.0	499.6	
22 Hexane	86	6.201	6.201	0.000	91	359872	100.0	96.5	
23 Methyl tert-butyl ether	73	6.243	6.243	0.000	97	2196331	100.0	100.6	
24 2-Methyl-2-propanol	59	6.340	6.341	-0.001	100	692345	1000.0	993.6	
25 Acetonitrile	41	6.536	6.536	0.000	99	778796	1000.0	967.3	
26 Isopropyl ether	45	6.662	6.662	0.000	93	3092104	100.0	94.5	
27 2-Chloro-1,3-butadiene	53	6.787	6.788	-0.001	91	1837649	100.0	105.7	
28 1,1-Dichloroethane	63	6.815	6.815	0.000	95	1807266	100.0	100.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	6.885	6.871	0.014	98	2400633	1000.0	980.3	
30 Tert-butyl ethyl ether	59	7.053	7.053	0.000	97	2890755	100.0	98.8	
31 Vinyl acetate	43	7.081	7.081	0.000	97	1866075	100.0	103.8	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	78	1189322	100.0	99.3	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	91	1542165	100.0	100.9	
35 Cyclohexane	84	7.597	7.598	-0.001	90	1946827	100.0	102.5	
34 Chlorobromomethane	128	7.597	7.598	-0.001	92	554845	100.0	98.9	
36 Chloroform	83	7.653	7.653	0.000	93	1701632	100.0	101.5	
37 Ethyl acetate	45	7.765	7.765	0.000	99	193663	200.0	199.8	
38 Carbon tetrachloride	117	7.807	7.807	0.000	96	1658079	100.0	102.4	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	96	999619	100.0	99.6	
39 Tetrahydrofuran	71	7.821	7.835	-0.014	92	148714	200.0	205.2	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	98	1726650	100.0	101.5	
42 2-Butanone (MEK)	43	7.961	7.961	-0.001	100	292472	100.0	97.5	
43 1,1-Dichloropropene	75	7.988	7.989	-0.001	93	1431321	100.0	101.3	
121 Isooctane	57	8.086	8.086	0.000	98	4493433	100.0	95.1	
113 n-Heptane	43	8.170	8.170	0.000	95	2226919	100.0	106.3	
45 Benzene	78	8.240	8.240	0.000	99	3818161	100.0	93.4	
46 Propionitrile	54	8.268	8.268	0.000	97	929167	1000.0	979.2	
47 Methacrylonitrile	41	8.282	8.282	0.000	90	3606717	1000.0	916.8	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	95	2322088	100.0	100.5	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	77	851554	100.0	97.8	
44 Isobutyl alcohol	42	8.393	8.394	-0.001	94	481600	2500.0	2515.0	
50 1,2-Dichloroethane	62	8.435	8.436	-0.001	96	1058551	100.0	98.8	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	2010640	50.0	50.0	
52 Trichloroethene	95	8.785	8.785	-0.001	77	1151881	100.0	99.8	
53 Methylcyclohexane	55	8.785	8.785	-0.001	89	1820085	100.0	98.4	
54 n-Butanol	56	9.036	9.036	0.000	88	497816	2500.0	2545.9	
55 Dibromomethane	93	9.190	9.190	0.000	90	491448	100.0	101.2	
120 Ethyl acrylate	55	9.245	9.246	-0.001	99	931341	100.0	105.3	
56 1,2-Dichloropropane	63	9.273	9.274	-0.001	96	1033054	100.0	100.9	
57 Dichlorobromomethane	83	9.315	9.315	0.000	99	1206311	100.0	105.5	
58 Methyl methacrylate	69	9.441	9.441	0.000	93	932635	200.0	208.9	
59 1,4-Dioxane	88	9.511	9.511	0.000	94	132796	2000.0	1923.9	
60 2-Chloroethyl vinyl ether	63	9.818	9.818	0.000	93	272934	100.0	93.5	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	95	1479845	100.0	102.1	
$ 62 Toluene-d8 (Surr)	98	10.069	10.070	-0.001	92	3713026	100.0	94.5	
63 Toluene	92	10.111	10.111	0.000	97	2763464	100.0	99.0	
64 2-Nitropropane	43	10.335	10.335	0.000	97	377963	200.0	194.2	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	97	622906	100.0	103.3	
61 trans-1,3-Dichloropropene	75	10.474	10.475	-0.001	92	1253939	100.0	104.5	
66 Tetrachloroethene	164	10.474	10.475	-0.001	94	1145360	100.0	100.9	
67 Ethyl methacrylate	69	10.586	10.586	0.000	91	923243	100.0	111.4	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	88	612032	100.0	103.0	
69 Chlorodibromomethane	129	10.810	10.796	0.014	90	1066041	100.0	107.7	
70 1,3-Dichloropropane	76	10.893	10.880	0.013	92	1251960	100.0	101.6	
72 Ethylene Dibromide	107	11.047	11.047	0.000	98	772054	100.0	104.7	
116 n-Butyl acetate	43	11.075	11.075	0.000	97	1112445	100.0	104.4	
73 2-Hexanone	43	11.187	11.187	0.000	95	422983	100.0	101.7	
75 1-Chlorohexane	91	11.452	11.438	0.014	97	1698347	100.0	100.4	
* 76 Chlorobenzene-d5	117	11.494	11.494	0.000	83	1597651	50.0	50.0	
77 Ethylbenzene	91	11.508	11.508	0.000	88	4416092	100.0	82.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Chlorobenzene	112	11.508	11.508	0.000	88	3063184	100.0	95.8	
79 1,1,1,2-Tetrachloroethane	131	11.550	11.550	0.000	93	1261317	100.0	104.1	
S 74 1,3-Dichloropropene, Total	75				0			206.6	
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	95	2189625	100.0	102.9	
81 o-Xylene	106	12.039	12.039	0.000	93	2038772	100.0	102.4	
82 Styrene	104	12.081	12.081	0.000	93	3132019	100.0	108.3	
84 Bromoform	173	12.136	12.137	-0.001	98	603150	100.0	106.5	
85 Isopropylbenzene	105	12.318	12.318	0.000	95	4523548	100.0	82.7	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.597	0.000	96	1357837	100.0	94.7	
87 N-Propylbenzene	91	12.709	12.709	0.000	93	4663798	100.0	84.9	
88 Bromobenzene	156	12.723	12.723	0.000	86	1379364	100.0	96.4	
89 1,1,2,2-Tetrachloroethane	83	12.765	12.751	0.014	96	804926	100.0	98.3	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	91	3668299	100.0	98.5	
91 2-Chlorotoluene	91	12.877	12.877	0.000	95	3420379	100.0	94.5	
92 1,2,3-Trichloropropane	110	12.919	12.919	0.000	81	281128	100.0	96.6	
93 trans-1,4-Dichloro-2-buten	53	12.932	12.933	-0.001	96	252939	100.0	101.4	
94 Cyclohexanone	55	12.988	12.975	0.013	91	200666	1000.0	970.4	
95 4-Chlorotoluene	91	13.030	13.030	0.000	94	3193713	100.0	96.9	
96 tert-Butylbenzene	119	13.198	13.198	0.000	91	3705191	100.0	96.8	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	94	3485791	100.0	102.7	
98 sec-Butylbenzene	105	13.365	13.366	-0.001	94	4583459	100.0	85.9	
99 4-Isopropyltoluene	119	13.491	13.491	0.000	94	4183020	100.0	94.7	
100 1,3-Dichlorobenzene	146	13.603	13.603	0.000	96	2553324	100.0	96.5	
* 101 1,4-Dichlorobenzene-d4	152	13.673	13.673	0.000	93	807120	50.0	50.0	
117 1,2,3-Trimethylbenzene	105	13.687	13.687	0.000	73	3340107	100.0	100.7	
102 1,4-Dichlorobenzene	146	13.687	13.687	0.000	89	2473083	100.0	95.9	
103 n-Butylbenzene	134	13.896	13.896	0.000	96	1242293	100.0	113.2	
114 Benzyl chloride	126	13.910	13.910	0.000	98	449460	100.0	104.9	
104 1,2-Dichlorobenzene	146	14.092	14.092	0.000	99	2279484	100.0	96.1	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	92	339437	100.0	100.1	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	98	195588	100.0	101.3	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	98	1470300	100.0	104.8	
108 Hexachlorobutadiene	225	15.488	15.488	0.000	96	844809	100.0	101.3	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	96	1205936	100.0	104.7	
110 Naphthalene	128	15.879	15.880	-0.001	97	1857654	100.0	98.0	
111 1,2,3-Trichlorobenzene	180	16.075	16.075	0.000	97	1014873	100.0	100.9	
S 112 Xylenes, Total	106				0			205.4	
S 115 Trihalomethanes, Total	1				0			421.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

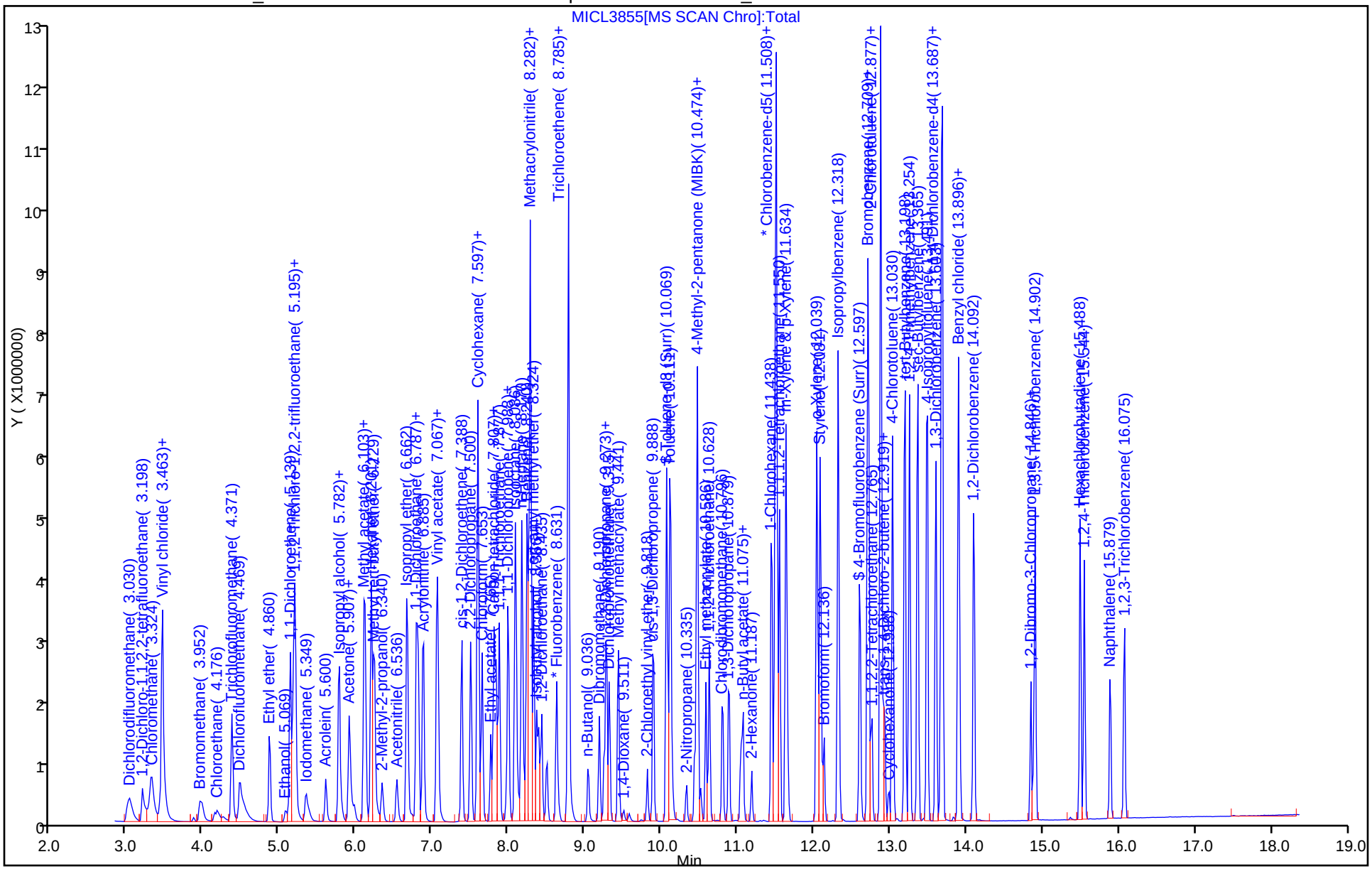
8260 Surr 25_00072	Amount Added: 20.00	Units: uL	
8260NewHiWrk_00186	Amount Added: 4.00	Units: uL	
I.S. Working_00144	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 10-Apr-2017 09:11:59 Chrom Revision: 2.2 13-Mar-2017 15:50:30

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3855.D

Injection Date:	08-Mar-2017 00:31:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

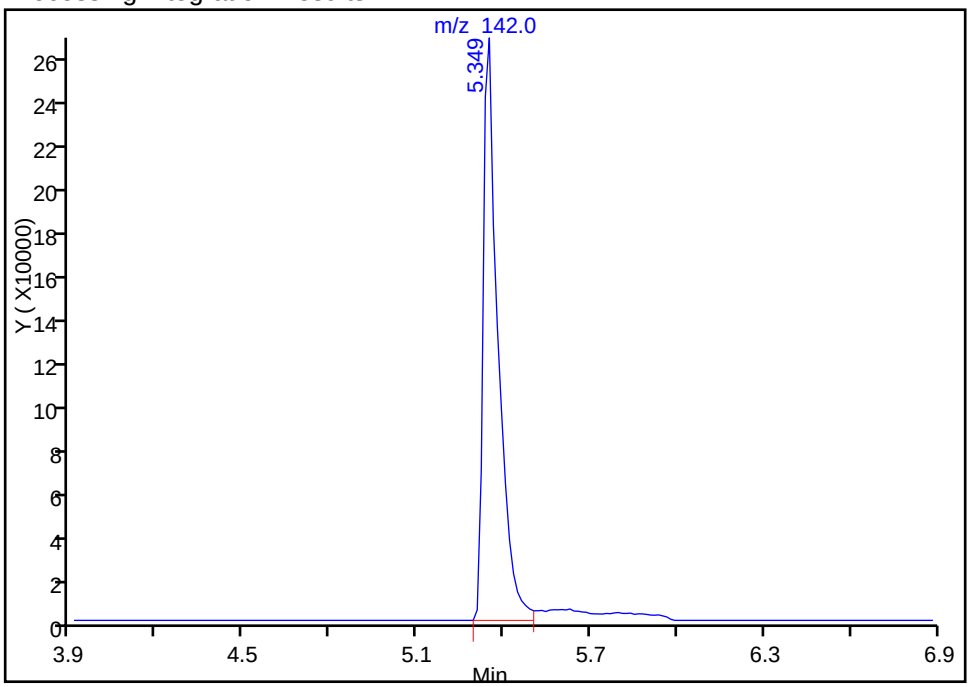
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3855.D
Injection Date: 08-Mar-2017 00:31:30 Instrument ID: VMSM
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

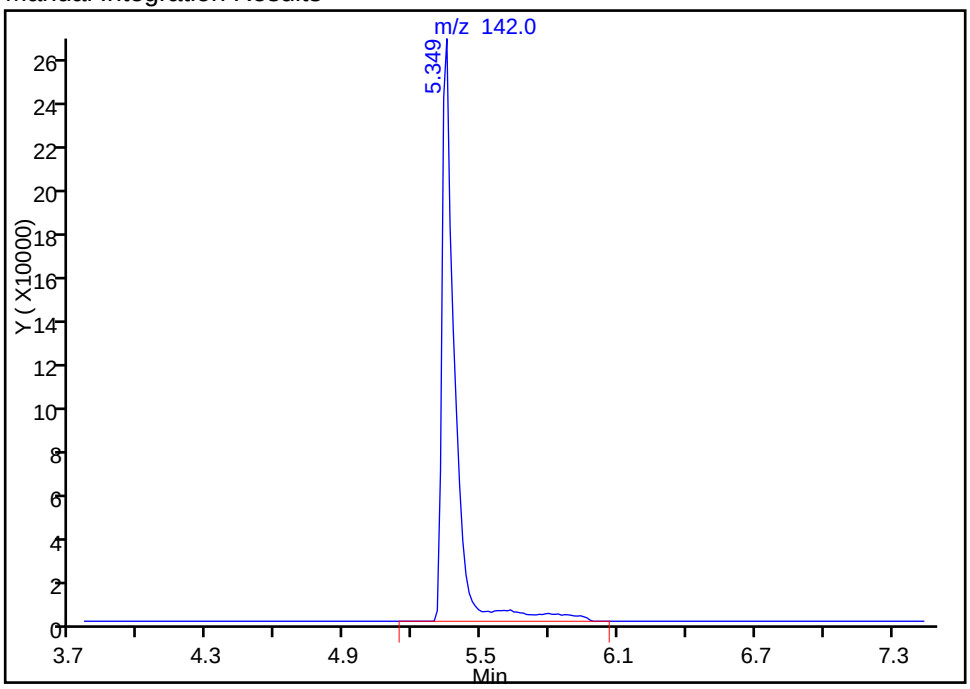
Processing Integration Results

RT: 5.35
Area: 943503
Amount: 100.7189
Amount Units: ug/l



Manual Integration Results

RT: 5.35
Area: 1038780
Amount: 101.6464
Amount Units: ug/l



Reviewer: buettnera, 10-Apr-2017 09:11:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 08-Mar-2017 00:57:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009951-010
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSM
Sublist: chrom-5mL-8260_MSM*sub11

Method: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 10-Apr-2017 09:12:00 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK036

First Level Reviewer: buettnera Date: 09-Mar-2017 08:20:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.031	3.031	0.000	99	2155582	200.0	192.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	92	1575111	200.0	193.5	
3 Chloromethane	50	3.324	3.324	0.000	99	2781568	200.0	190.7	
118 Butadiene	39	3.464	3.464	0.000	96	2645154	200.0	193.5	
4 Vinyl chloride	62	3.464	3.478	-0.014	98	2577753	200.0	197.4	
5 Bromomethane	94	3.966	3.952	0.014	91	1106261	200.0	244.7	
6 Chloroethane	64	4.162	4.162	0.000	100	1403638	200.0	200.7	
7 Trichlorofluoromethane	101	4.385	4.371	0.014	98	3186673	200.0	200.8	
119 Dichlorofluoromethane	67	4.483	4.483	0.000	100	3066854	200.0	197.8	
8 Ethyl ether	74	4.860	4.860	0.000	94	1041993	200.0	199.7	
9 Ethanol	45	5.070	5.070	0.000	96	652871	8000.0	8060.0	
10 1,1-Dichloroethene	96	5.140	5.140	0.000	96	2090105	200.0	201.0	
11 Carbon disulfide	76	5.181	5.181	0.000	99	6380324	200.0	186.5	
12 1,1,2-Trichloro-1,2,2-trif	151	5.209	5.195	0.014	87	2209170	200.0	195.3	
13 Iodomethane	142	5.349	5.349	0.000	97	2194875	200.0	199.7	M
14 Acrolein	56	5.600	5.600	0.000	100	1173115	1000.0	1047.2	
16 3-Chloro-1-propene	39	5.782	5.782	0.000	93	2161354	200.0	192.0	
17 Isopropyl alcohol	45	5.796	5.810	-0.014	98	910062	2000.0	2159.5	
S 15 1,2-Dichloroethene, Total	96				0			382.3	
18 Methylene Chloride	84	5.908	5.908	0.000	94	1978952	200.0	199.0	
19 Acetone	43	5.977	5.977	0.000	100	379159	200.0	181.7	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	95	2178995	200.0	190.7	
20 Methyl acetate	74	6.117	6.117	0.000	96	990049	1000.0	1014.9	
22 Hexane	86	6.201	6.201	0.000	95	752851	200.0	204.6	
23 Methyl tert-butyl ether	73	6.243	6.243	0.000	92	4050211	200.0	188.1	
24 2-Methyl-2-propanol	59	6.341	6.341	0.000	100	1508503	2000.0	2193.8	
25 Acetonitrile	41	6.536	6.536	0.000	100	1577149	2000.0	1985.2	
26 Isopropyl ether	45	6.662	6.662	0.000	90	5727883	200.0	177.4	
27 2-Chloro-1,3-butadiene	53	6.788	6.788	0.000	91	3385543	200.0	197.4	
28 1,1-Dichloroethane	63	6.815	6.815	0.000	95	3273150	200.0	183.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	6.885	6.871	0.014	95	4393441	2000.0	1818.2	
30 Tert-butyl ethyl ether	59	7.067	7.053	0.014	92	5185805	200.0	179.6	
31 Vinyl acetate	43	7.081	7.081	0.000	97	3322426	200.0	187.3	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	77	2263831	200.0	191.6	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	93	2882480	200.0	191.1	
34 Chlorobromomethane	128	7.598	7.598	0.000	90	1071319	200.0	193.6	
35 Cyclohexane	84	7.598	7.598	0.000	90	3594438	200.0	191.8	
36 Chloroform	83	7.653	7.653	0.000	93	3089043	200.0	186.8	
37 Ethyl acetate	45	7.765	7.765	0.000	98	395969	400.0	413.9	
38 Carbon tetrachloride	117	7.807	7.807	0.000	96	3093534	200.0	193.6	
39 Tetrahydrofuran	71	7.821	7.835	-0.014	91	306283	400.0	428.3	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	94	1997074	200.0	201.6	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	98	3199374	200.0	190.6	
42 2-Butanone (MEK)	43	7.961	7.961	0.000	100	616076	200.0	208.1	
43 1,1-Dichloropropene	75	7.989	7.989	0.000	92	2701803	200.0	193.7	
121 Isooctane	57	8.086	8.086	0.000	90	7304817	200.0	156.7	
113 n-Heptane	43	8.170	8.170	0.000	95	4047620	200.0	195.7	
45 Benzene	78	8.240	8.240	0.000	96	6277709	200.0	155.6	
46 Propionitrile	54	8.268	8.268	0.000	98	1809159	2000.0	1932.2	
47 Methacrylonitrile	41	8.282	8.282	0.000	81	6116736	2000.0	1575.6	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	92	4237401	200.0	185.9	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	77	1690576	200.0	196.7	
44 Isobutyl alcohol	42	8.394	8.394	0.000	94	1065918	5000.0	5641.0	
50 1,2-Dichloroethane	62	8.436	8.436	0.000	95	2027971	200.0	191.9	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1984027	50.0	50.0	
53 Methylcyclohexane	55	8.785	8.785	0.000	90	3348227	200.0	183.4	
52 Trichloroethene	95	8.785	8.785	0.000	87	2132401	200.0	187.3	
54 n-Butanol	56	9.036	9.036	0.000	86	1126273	5000.0	5837.1	
55 Dibromomethane	93	9.190	9.190	0.000	91	977082	200.0	203.9	
120 Ethyl acrylate	55	9.246	9.246	0.000	99	1892371	200.0	216.8	
56 1,2-Dichloropropane	63	9.287	9.274	0.013	96	1971292	200.0	195.1	
57 Dichlorobromomethane	83	9.315	9.315	0.000	98	2316572	200.0	205.3	
58 Methyl methacrylate	69	9.441	9.441	0.000	91	1886030	400.0	428.1	
59 1,4-Dioxane	88	9.511	9.511	0.000	94	287178	4000.0	4216.3	
60 2-Chloroethyl vinyl ether	63	9.818	9.818	0.000	93	556955	200.0	201.2	
65 cis-1,3-Dichloropropene	75	9.902	9.888	0.014	93	2793795	200.0	195.4	
$ 62 Toluene-d8 (Surr)	98	10.070	10.070	0.000	93	6150167	200.0	160.7	
63 Toluene	92	10.125	10.111	0.014	92	4825901	200.0	177.4	
64 2-Nitropropane	43	10.335	10.335	0.000	97	794279	400.0	413.3	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	96	1285717	200.0	218.8	
66 Tetrachloroethene	164	10.475	10.475	0.000	94	2109902	200.0	190.8	
61 trans-1,3-Dichloropropene	75	10.475	10.475	0.000	92	2345526	200.0	200.5	
67 Ethyl methacrylate	69	10.586	10.586	0.000	92	1868944	200.0	231.5	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	89	1198082	200.0	206.9	
69 Chlorodibromomethane	129	10.810	10.796	0.014	90	2116476	200.0	219.4	
70 1,3-Dichloropropane	76	10.894	10.880	0.014	92	2387247	200.0	198.7	
72 Ethylene Dibromide	107	11.047	11.047	0.000	98	1533915	200.0	213.5	
116 n-Butyl acetate	43	11.075	11.075	0.000	96	2235135	200.0	215.2	
73 2-Hexanone	43	11.187	11.187	0.000	94	908025	200.0	224.1	
75 1-Chlorohexane	91	11.452	11.438	0.014	97	3065418	200.0	186.0	
* 76 Chlorobenzene-d5	117	11.494	11.494	0.000	81	1556798	50.0	50.0	
78 Chlorobenzene	112	11.508	11.508	0.000	86	4954429	200.0	158.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Ethylbenzene	91	11.508	11.508	0.000	80	6524720	200.0	125.6	
79 1,1,1,2-Tetrachloroethane	131	11.550	11.550	0.000	96	2379263	200.0	201.5	
S 74 1,3-Dichloropropene, Total	75				0			395.9	
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	90	3969303	200.0	191.5	
81 o-Xylene	106	12.039	12.039	0.000	89	3703632	200.0	190.9	
82 Styrene	104	12.081	12.081	0.000	92	5192183	200.0	184.2	
84 Bromoform	173	12.137	12.137	0.000	98	1230194	200.0	224.2	
85 Isopropylbenzene	105	12.318	12.318	0.000	91	6544528	200.0	123.6	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.597	0.000	95	2668639	200.0	192.0	
87 N-Propylbenzene	91	12.709	12.709	0.000	86	6578070	200.0	123.7	
88 Bromobenzene	156	12.723	12.723	0.000	88	2514193	200.0	181.5	
89 1,1,2,2-Tetrachloroethane	83	12.765	12.751	0.014	96	1626381	200.0	205.0	
91 2-Chlorotoluene	91	12.877	12.877	0.000	90	5341288	200.0	152.3	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	85	5645923	200.0	156.5	
92 1,2,3-Trichloropropane	110	12.919	12.919	0.000	82	576394	200.0	204.4	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	95	524840	200.0	217.2	
94 Cyclohexanone	55	12.989	12.975	0.014	91	462512	2000.0	2309.0	
95 4-Chlorotoluene	91	13.030	13.030	0.000	90	5122882	200.0	160.4	
96 tert-Butylbenzene	119	13.198	13.198	0.000	89	5542519	200.0	149.4	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	91	5472267	200.0	166.4	
98 sec-Butylbenzene	105	13.366	13.366	0.000	90	6327597	200.0	122.4	
99 4-Isopropyltoluene	119	13.491	13.491	0.000	87	5828098	200.0	136.1	
100 1,3-Dichlorobenzene	146	13.603	13.603	0.000	93	4218066	200.0	164.5	
* 101 1,4-Dichlorobenzene-d4	152	13.673	13.673	0.000	92	781870	50.0	50.0	
102 1,4-Dichlorobenzene	146	13.687	13.687	0.000	90	4043832	200.0	161.9	
117 1,2,3-Trimethylbenzene	105	13.687	13.687	0.000	71	5185485	200.0	161.3	
103 n-Butylbenzene	134	13.896	13.896	0.000	88	2344325	200.0	220.5	
114 Benzyl chloride	126	13.910	13.910	0.000	94	938693	200.0	226.2	
104 1,2-Dichlorobenzene	146	14.106	14.092	0.014	95	3927317	200.0	170.9	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	93	821869	200.0	200.0	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	96	411752	200.0	220.1	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	96	2664186	200.0	196.0	
108 Hexachlorobutadiene	225	15.488	15.488	0.000	97	1589916	200.0	196.8	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	97	2314173	200.0	207.4	
110 Naphthalene	128	15.880	15.880	0.000	98	3510379	200.0	191.2	
111 1,2,3-Trichlorobenzene	180	16.075	16.075	0.000	97	1994416	200.0	204.7	
S 112 Xylenes, Total	106				0			382.4	
S 115 Trihalomethanes, Total	1				0			835.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

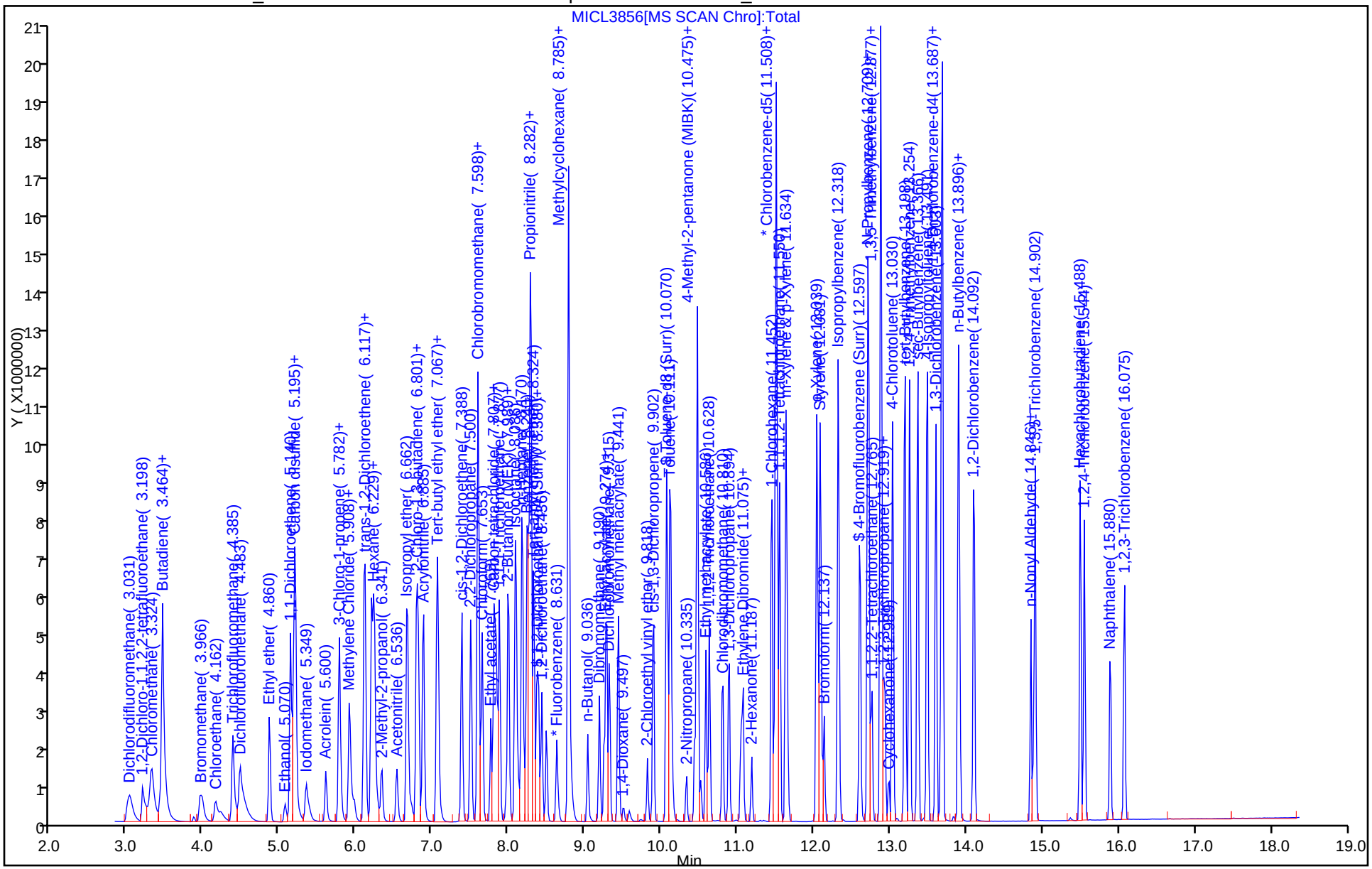
8260_Surr_00045	Amount Added: 0.40	Units: uL	
8260NewHiWrk_00186	Amount Added: 8.00	Units: uL	
I.S. Working_00144	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 10-Apr-2017 09:12:01 Chrom Revision: 2.2 13-Mar-2017 15:50:30

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Injection Date:	08-Mar-2017 00:57:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	IC			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

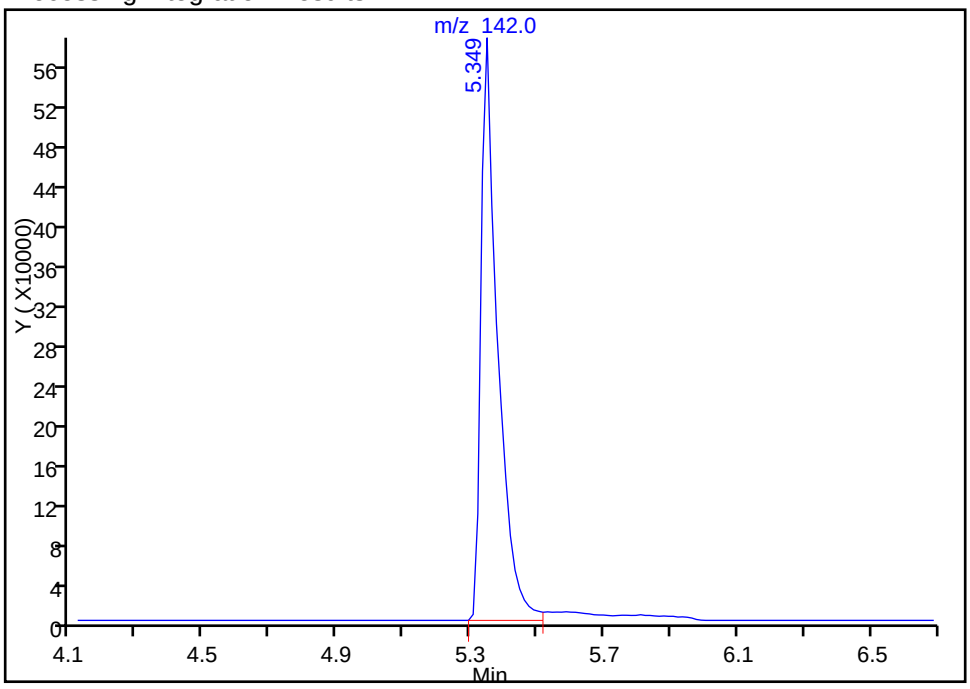
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D
Injection Date: 08-Mar-2017 00:57:30 Instrument ID: VMSM
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

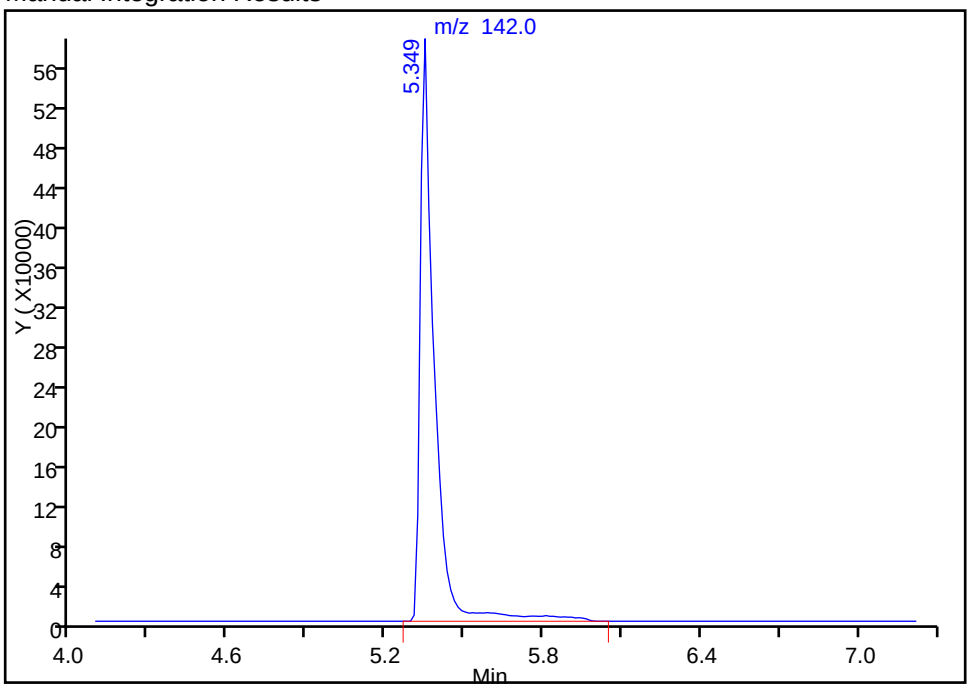
Processing Integration Results

RT: 5.35
Area: 2044464
Amount: 199.7647
Amount Units: ug/l



Manual Integration Results

RT: 5.35
Area: 2194875
Amount: 199.7379
Amount Units: ug/l



Reviewer: buettnera, 10-Apr-2017 09:11:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Lab Sample ID: ICV 160-296453/13 Calibration Date: 03/08/2017 02:13

Instrument ID: VMSM Calib Start Date: 03/07/2017 21:59

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/08/2017 00:57

Lab File ID: MICV3859.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	0.2821	0.3106	0.1000	55.0	50.0	10.1	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.2051	0.2414	0.0100	58.8	50.0	17.7	20.0
Chloromethane	Ave	0.3675	0.4108	0.1000	55.9	50.0	11.8	20.0
Butadiene	Ave	0.3444	0.3337	0.0100	48.4	50.0	-3.1	20.0
Vinyl chloride	Ave	0.3291	0.3518	0.1000	53.4	50.0	6.9	20.0
Bromomethane	Ave	0.1139	0.1224	0.1000	53.7	50.0	7.5	20.0
Chloroethane	Qua		0.1188	0.1000	46.9	50.0	-6.1	20.0
Trichlorofluoromethane	Ave	0.4000	0.4174	0.1000	52.2	50.0	4.4	20.0
Dichlorofluoromethane	Ave	0.3907	0.4134	0.0100	52.9	50.0	5.8	20.0
Ethyl ether	Ave	0.1315	0.1340	0.0100	51.0	50.0	1.9	20.0
Ethanol	Ave	0.0020	0.0018*	0.0100	1750	2000	-12.7	20.0
1,1-Dichloroethene	Ave	0.2621	0.2697	0.1000	51.5	50.0	2.9	20.0
Carbon disulfide	Ave	0.8622	0.8884	0.1000	51.5	50.0	3.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2850	0.2900	0.1000	50.9	50.0	1.7	20.0
Iodomethane	Qua		0.2582	0.0100	54.8	50.0	9.5	20.0
Acrolein	Ave	0.0282	0.0265	0.0010	235	250	-6.1	20.0
3-Chloro-1-propene	Ave	0.2838	0.2879	0.0100	50.7	50.0	1.4	20.0
Isopropyl alcohol	Ave	0.0106	0.0096*	0.0100	453	500	-9.3	20.0
Methylene Chloride	Ave	0.2506	0.2545	0.1000	50.8	50.0	1.6	20.0
Acetone	Ave	0.0526	0.0445*	0.1000	42.3	50.0	-15.4	20.0
trans-1,2-Dichloroethene	Ave	0.2880	0.3006	0.1000	52.2	50.0	4.4	20.0
Methyl acetate	Ave	0.0246	0.0236*	0.1000	240	250	-3.9	20.0
Hexane	Ave	0.0927	0.0983	0.0100	53.0	50.0	6.0	20.0
Methyl tert-butyl ether	Ave	0.5427	0.5532	0.1000	51.0	50.0	1.9	20.0
2-Methyl-2-propanol	Ave	0.0173	0.0157	0.0100	453	500	-9.3	20.0
Acetonitrile	Ave	0.0200	0.0185	0.0010	463	500	-7.4	20.0
Isopropyl ether	Ave	0.8136	0.8782	0.0100	54.0	50.0	7.9	20.0
2-Chloro-1,3-butadiene	Ave	0.4322	0.4620	0.0100	53.4	50.0	6.9	20.0
1,1-Dichloroethane	Ave	0.4488	0.4719	0.2000	52.6	50.0	5.2	20.0
Acrylonitrile	Ave	0.0609	0.0602	0.0100	494	500	-1.2	20.0
Tert-butyl ethyl ether	Ave	0.7275	0.7649	0.0100	52.6	50.0	5.1	20.0
Vinyl acetate	Ave	0.4471	0.4527	0.0100	50.6	50.0	1.2	20.0
cis-1,2-Dichloroethene	Ave	0.2978	0.3098	0.1000	52.0	50.0	4.0	20.0
2,2-Dichloropropane	Ave	0.3800	0.3836	0.0100	50.5	50.0	0.9	20.0
Bromochloromethane	Ave	0.1395	0.1409	0.0100	50.5	50.0	1.0	20.0
Cyclohexane	Ave	0.4723	0.4943	0.1000	52.3	50.0	4.7	20.0
Chloroform	Ave	0.4168	0.4388	0.2000	52.6	50.0	5.3	20.0
Ethyl acetate	Ave	0.0241	0.0234	0.0100	97.2	100	-2.8	20.0
Carbon tetrachloride	Ave	0.4028	0.4250	0.1000	52.8	50.0	5.5	20.0
1,1,1-Trichloroethane	Ave	0.4231	0.4449	0.1000	52.6	50.0	5.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Lab Sample ID: ICV 160-296453/13 Calibration Date: 03/08/2017 02:13

Instrument ID: VMSM Calib Start Date: 03/07/2017 21:59

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/08/2017 00:57

Lab File ID: MICV3859.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
2-Butanone (MEK)	Ave	0.0746	0.0692*	0.1000	46.4	50.0	-7.3	20.0
1,1-Dichloropropene	Ave	0.3515	0.3825	0.0100	54.4	50.0	8.8	20.0
Isooctane	Ave	1.175	1.242	0.0100	52.8	50.0	5.7	20.0
n-Heptane	Ave	0.5211	0.5703	0.0100	54.7	50.0	9.4	20.0
Benzene	Ave	1.017	1.068	0.5000	52.5	50.0	5.1	20.0
Propionitrile	Ave	0.0236	0.0230	0.0010	488	500	-2.4	20.0
Methacrylonitrile	Ave	0.0978	0.0994	0.0100	508	500	1.6	20.0
Tert-amyl methyl ether	Ave	0.5745	0.6001	0.0100	52.2	50.0	4.5	20.0
Isobutyl alcohol	Ave	0.0048	0.0042	0.0010	1110	1250	-11.0	20.0
1,2-Dichloroethane	Ave	0.2664	0.2651	0.1000	49.8	50.0	-0.5	20.0
Methylcyclohexane	Ave	0.4600	0.4762	0.1000	51.8	50.0	3.5	20.0
Trichloroethene	Ave	0.2870	0.3009	0.2000	52.4	50.0	4.9	20.0
n-Butanol	Ave	0.0049	0.0043*	0.0100	1100	1250	-11.8	20.0
Dibromomethane	Ave	0.1208	0.1202	0.0100	49.8	50.0	-0.5	20.0
Ethyl acrylate	Ave	0.2200	0.2267	0.0100	51.5	50.0	3.1	20.0
1,2-Dichloropropane	Ave	0.2546	0.2677	0.1000	52.6	50.0	5.1	20.0
Bromodichloromethane	Ave	0.2844	0.3059	0.2000	53.8	50.0	7.6	20.0
Methyl methacrylate	Ave	0.1110	0.1144	0.0100	103	100	3.0	20.0
1,4-Dioxane	Ave	0.0017	0.0015	0.0010	883	1000	-11.7	20.0
2-Chloroethyl vinyl ether	Lin		0.0853	0.0100	56.0	50.0	12.0	20.0
cis-1,3-Dichloropropene	Ave	0.3604	0.3845	0.2000	53.3	50.0	6.7	20.0
Toluene	Ave	0.8737	0.9392	0.4000	53.7	50.0	7.5	20.0
2-Nitropropane	Lin1		0.0528	0.0100	89.3	100	-10.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1887	0.1888	0.1000	50.0	50.0	0.0	20.0
Tetrachloroethene	Ave	0.3551	0.3772	0.2000	53.1	50.0	6.2	20.0
trans-1,3-Dichloropropene	Ave	0.3757	0.3966	0.1000	52.8	50.0	5.6	20.0
Ethyl methacrylate	Ave	0.2593	0.2826	0.0100	54.5	50.0	9.0	20.0
1,1,2-Trichloroethane	Ave	0.1860	0.1957	0.1000	52.6	50.0	5.2	20.0
Dibromochloromethane	Ave	0.3098	0.3311	0.1000	53.4	50.0	6.9	20.0
1,3-Dichloropropane	Ave	0.3858	0.3970	0.0100	51.5	50.0	2.9	20.0
1,2-Dibromoethane	Ave	0.2307	0.2394	0.1000	51.9	50.0	3.8	20.0
n-Butyl acetate	Ave	0.3335	0.3350	0.0100	50.2	50.0	0.5	20.0
2-Hexanone	Ave	0.1301	0.1251	0.1000	48.1	50.0	-3.9	20.0
1-Chlorohexane	Ave	0.5294	0.5776	0.0100	54.6	50.0	9.1	20.0
Chlorobenzene	Ave	1.001	1.077	0.5000	53.8	50.0	7.5	20.0
Ethylbenzene	Ave	1.669	1.668	0.1000	50.0	50.0	-0.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3793	0.4226	0.0100	55.7	50.0	11.4	20.0
m,p-Xylenes	Ave	0.6657	0.7293	0.1000	54.8	50.0	9.6	20.0
o-Xylene	Ave	0.6230	0.6855	0.3000	55.0	50.0	10.0	20.0
Styrene	Ave	0.9052	1.057	0.3000	58.4	50.0	16.7	20.0
Bromoform	Ave	0.3509	0.3779	0.1000	53.8	50.0	7.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Lab Sample ID: ICV 160-296453/13 Calibration Date: 03/08/2017 02:13

Instrument ID: VMSM Calib Start Date: 03/07/2017 21:59

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/08/2017 00:57

Lab File ID: MICV3859.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
Isopropylbenzene	Ave	3.387	3.616	0.1000	53.4	50.0	6.8	20.0
N-Propylbenzene	Ave	3.402	3.741	0.0100	55.0	50.0	10.0	20.0
Bromobenzene	Ave	0.8861	0.9445	0.0100	53.3	50.0	6.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5074	0.5239	0.3000	51.6	50.0	3.2	20.0
1,3,5-Trimethylbenzene	Ave	2.307	2.643	0.0100	57.3	50.0	14.6	20.0
2-Chlorotoluene	Ave	2.242	2.530	0.0100	56.4	50.0	12.8	20.0
1,2,3-Trichloropropane	Ave	0.1803	0.1827	0.0100	50.7	50.0	1.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1545	0.1624	0.0100	52.6	50.0	5.1	20.0
Cyclohexanone	Ave	0.0128	0.0108	0.0010	423	500	-15.5	20.0
4-Chlorotoluene	Ave	2.043	2.302	0.0100	56.4	50.0	12.7	20.0
tert-Butylbenzene	Ave	2.372	2.794	0.0100	58.9	50.0	17.8	20.0
1,2,4-Trimethylbenzene	Ave	2.103	2.430	0.0100	57.8	50.0	15.5	20.0
sec-Butylbenzene	Ave	3.307	3.656	0.0100	55.3	50.0	10.5	20.0
p-Isopropyltoluene	Ave	2.738	3.079	0.0100	56.2	50.0	12.5	20.0
1,3-Dichlorobenzene	Ave	1.639	1.783	0.6000	54.4	50.0	8.8	20.0
1,2,3-Trimethylbenzene	Ave	2.055	2.366	0.0100	57.6	50.0	15.1	20.0
1,4-Dichlorobenzene	Ave	1.597	1.755	0.5000	54.9	50.0	9.9	20.0
n-Butylbenzene	Ave	0.6800	0.7522	0.0100	55.3	50.0	10.6	20.0
Benzyl chloride	Ave	0.2654	0.2646	0.0100	49.8	50.0	-0.3	20.0
1,2-Dichlorobenzene	Ave	1.470	1.587	0.4000	54.0	50.0	8.0	20.0
n-Nonyl Aldehyde	Qua		0.1847	0.0100	50.5	50.0	1.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1197	0.1194	0.0500	49.9	50.0	-0.3	20.0
1,3,5-Trichlorobenzene	Ave	0.8693	0.9167	0.0100	52.7	50.0	5.5	20.0
Hexachlorobutadiene	Ave	0.5167	0.5612	0.0100	54.3	50.0	8.6	20.0
1,2,4-Trichlorobenzene	Ave	0.7137	0.7263	0.2000	50.9	50.0	1.8	20.0
Naphthalene	Ave	1.174	1.127	0.0100	48.0	50.0	-4.0	20.0
1,2,3-Trichlorobenzene	Ave	0.6231	0.6403	0.0100	51.4	50.0	2.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2496	0.2489	0.0100	49.9	50.0	-0.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2166	0.2090	0.0100	48.2	50.0	-3.5	20.0
Toluene-d8 (Surr)	Ave	1.229	1.298	0.0100	52.8	50.0	5.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8886	0.8974	0.0100	50.5	50.0	1.0	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICV3859.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Mar-2017 02:13:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009951-013
Misc. Info.: ICV
Operator ID: JDH Instrument ID: VMSM
Sublist:

Method: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 10-Apr-2017 09:12:00 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK036

First Level Reviewer: buettnera Date: 09-Mar-2017 14:07:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.031	3.031	0.000	99	608396	50.0	55.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	91	472952	50.0	58.8	
3 Chloromethane	50	3.324	3.324	0.000	99	804781	50.0	55.9	
118 Butadiene	39	3.464	3.464	0.000	98	653604	50.0	48.4	
4 Vinyl chloride	62	3.478	3.478	0.000	98	689174	50.0	53.4	
5 Bromomethane	94	3.952	3.952	0.000	90	239858	50.0	53.7	
6 Chloroethane	64	4.190	4.162	0.028	95	232754	50.0	46.9	M
7 Trichlorofluoromethane	101	4.371	4.371	0.000	98	817748	50.0	52.2	
119 Dichlorofluoromethane	67	4.469	4.483	-0.014	100	809792	50.0	52.9	
8 Ethyl ether	74	4.874	4.860	0.014	93	262566	50.0	51.0	
9 Ethanol	45	5.084	5.070	0.014	95	139651	2000.0	1746.1	
10 1,1-Dichloroethene	96	5.140	5.140	0.000	96	528408	50.0	51.5	
11 Carbon disulfide	76	5.181	5.181	0.000	99	1740342	50.0	51.5	
12 1,1,2-Trichloro-1,2,2-trif	151	5.195	5.195	0.000	88	568149	50.0	50.9	
13 Iodomethane	142	5.349	5.349	0.000	97	505854	50.0	54.8	M
14 Acrolein	56	5.600	5.600	0.000	99	259772	250.0	234.9	
16 3-Chloro-1-propene	39	5.782	5.782	0.000	94	563893	50.0	50.7	
17 Isopropyl alcohol	45	5.810	5.810	0.000	98	188625	500.0	453.3	
18 Methylene Chloride	84	5.908	5.908	0.000	96	498536	50.0	50.8	
19 Acetone	43	5.978	5.977	0.001	100	87127	50.0	42.3	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	98	588813	50.0	52.2	
20 Methyl acetate	74	6.117	6.117	0.000	99	231308	250.0	240.1	
22 Hexane	86	6.201	6.201	0.000	94	192611	50.0	53.0	
23 Methyl tert-butyl ether	73	6.243	6.243	0.000	98	1083669	50.0	51.0	
24 2-Methyl-2-propanol	59	6.341	6.341	0.000	99	307796	500.0	453.4	
25 Acetonitrile	41	6.536	6.536	0.000	99	363106	500.0	462.9	
26 Isopropyl ether	45	6.662	6.662	0.000	94	1720414	50.0	54.0	
27 2-Chloro-1,3-butadiene	53	6.788	6.788	0.000	91	905123	50.0	53.4	
28 1,1-Dichloroethane	63	6.815	6.815	0.000	95	924378	50.0	52.6	
29 Acrylonitrile	53	6.871	6.871	0.000	98	1179126	500.0	494.2	

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	7.053	7.053	0.000	97	1498465	50.0	52.6	
31 Vinyl acetate	43	7.081	7.081	0.000	98	886767	50.0	50.6	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	78	606813	50.0	52.0	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	91	751484	50.0	50.5	
35 Cyclohexane	84	7.598	7.598	0.000	90	968306	50.0	52.3	
34 Chlorobromomethane	128	7.598	7.598	0.000	88	276065	50.0	50.5	
36 Chloroform	83	7.653	7.653	0.000	93	859487	50.0	52.6	
37 Ethyl acetate	45	7.765	7.765	0.000	99	91830	100.0	97.2	
38 Carbon tetrachloride	117	7.807	7.807	0.000	96	832471	50.0	52.8	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	94	487637	50.0	49.9	
39 Tetrahydrofuran	71	7.835	7.835	0.000	91	69444	100.0	98.4	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	98	871565	50.0	52.6	
42 2-Butanone (MEK)	43	7.961	7.961	0.000	99	135505	50.0	46.4	
43 1,1-Dichloropropene	75	7.989	7.989	0.000	94	749246	50.0	54.4	
121 Isooctane	57	8.086	8.086	0.000	100	2432225	50.0	52.8	
113 n-Heptane	43	8.170	8.170	0.000	95	1117183	50.0	54.7	
45 Benzene	78	8.240	8.240	0.000	98	2092382	50.0	52.5	
46 Propionitrile	54	8.268	8.268	0.000	95	451001	500.0	487.8	
47 Methacrylonitrile	41	8.282	8.282	0.000	92	1947959	500.0	508.2	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	96	1175536	50.0	52.2	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	77	409318	50.0	48.2	
44 Isobutyl alcohol	42	8.394	8.394	0.000	95	207453	1250.0	1111.9	
50 1,2-Dichloroethane	62	8.436	8.436	0.000	96	519286	50.0	49.8	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1958951	50.0	50.0	
52 Trichloroethene	95	8.785	8.785	0.000	72	589433	50.0	52.4	
53 Methylcyclohexane	55	8.785	8.785	0.000	88	932849	50.0	51.8	
54 n-Butanol	56	9.036	9.036	0.000	88	209970	1250.0	1102.1	
55 Dibromomethane	93	9.190	9.190	0.000	90	235475	50.0	49.8	
120 Ethyl acrylate	55	9.246	9.246	0.000	99	444128	50.0	51.5	
56 1,2-Dichloropropane	63	9.274	9.274	0.000	96	524451	50.0	52.6	
57 Dichlorobromomethane	83	9.315	9.315	0.000	99	599317	50.0	53.8	
58 Methyl methacrylate	69	9.441	9.441	0.000	94	448140	100.0	103.0	
59 1,4-Dioxane	88	9.511	9.511	0.000	94	59369	1000.0	882.8	
60 2-Chloroethyl vinyl ether	63	9.818	9.818	0.000	93	167124	50.0	56.0	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	95	753233	50.0	53.3	
$ 62 Toluene-d8 (Surr)	98	10.070	10.070	0.000	92	2013117	50.0	52.8	
63 Toluene	92	10.112	10.111	0.001	99	1456675	50.0	53.7	
64 2-Nitropropane	43	10.335	10.335	0.000	98	163785	100.0	89.3	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	97	292814	50.0	50.0	
61 trans-1,3-Dichloropropene	75	10.475	10.475	0.000	92	615111	50.0	52.8	
66 Tetrachloroethene	164	10.475	10.475	0.000	94	585059	50.0	53.1	
67 Ethyl methacrylate	69	10.586	10.586	0.000	91	438297	50.0	54.5	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	88	303557	50.0	52.6	
69 Chlorodibromomethane	129	10.796	10.796	0.000	90	513501	50.0	53.4	
70 1,3-Dichloropropane	76	10.880	10.880	0.000	94	615720	50.0	51.5	
72 Ethylene Dibromide	107	11.047	11.047	0.000	98	371223	50.0	51.9	
116 n-Butyl acetate	43	11.075	11.075	0.000	97	519626	50.0	50.2	
73 2-Hexanone	43	11.187	11.187	0.000	95	193941	50.0	48.1	
75 1-Chlorohexane	91	11.438	11.438	0.000	97	895853	50.0	54.6	
* 76 Chlorobenzene-d5	117	11.494	11.494	0.000	83	1550921	50.0	50.0	
77 Ethylbenzene	91	11.508	11.508	0.000	92	2586577	50.0	50.0	
78 Chlorobenzene	112	11.508	11.508	0.000	86	1669618	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
79 1,1,1,2-Tetrachloroethane	131	11.550	11.550	0.000	94	655454	50.0	55.7	
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	97	1131136	50.0	54.8	
81 o-Xylene	106	12.039	12.039	0.000	94	1063213	50.0	55.0	
82 Styrene	104	12.081	12.081	0.000	94	1638723	50.0	58.4	
84 Bromoform	173	12.137	12.137	0.000	99	283356	50.0	53.8	
85 Isopropylbenzene	105	12.318	12.318	0.000	94	2711712	50.0	53.4	
$ 86 4-Bromofluorobenzene (Surr	95	12.598	12.597	0.001	91	672965	50.0	50.5	
87 N-Propylbenzene	91	12.709	12.709	0.000	96	2805502	50.0	55.0	
88 Bromobenzene	156	12.723	12.723	0.000	85	708320	50.0	53.3	
89 1,1,2,2-Tetrachloroethane	83	12.751	12.751	0.000	96	392864	50.0	51.6	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	90	1982169	50.0	57.3	
91 2-Chlorotoluene	91	12.877	12.877	0.000	96	1897157	50.0	56.4	
92 1,2,3-Trichloropropane	110	12.919	12.919	0.000	84	137022	50.0	50.7	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	95	121784	50.0	52.6	
94 Cyclohexanone	55	12.989	12.975	0.014	91	81177	500.0	422.5	
95 4-Chlorotoluene	91	13.030	13.030	0.000	94	1726584	50.0	56.4	
96 tert-Butylbenzene	119	13.198	13.198	0.000	89	2095367	50.0	58.9	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	95	1822283	50.0	57.8	
98 sec-Butylbenzene	105	13.366	13.366	0.000	93	2741575	50.0	55.3	
99 4-Isopropyltoluene	119	13.491	13.491	0.000	96	2308864	50.0	56.2	
100 1,3-Dichlorobenzene	146	13.603	13.603	0.000	97	1337004	50.0	54.4	
* 101 1,4-Dichlorobenzene-d4	152	13.673	13.673	0.000	95	749909	50.0	50.0	
117 1,2,3-Trimethylbenzene	105	13.687	13.687	0.000	75	1774131	50.0	57.6	
102 1,4-Dichlorobenzene	146	13.687	13.687	0.000	87	1315826	50.0	54.9	
103 n-Butylbenzene	134	13.896	13.896	0.000	96	564076	50.0	55.3	
114 Benzyl chloride	126	13.910	13.910	0.000	98	198393	50.0	49.8	
104 1,2-Dichlorobenzene	146	14.092	14.092	0.000	99	1190258	50.0	54.0	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	92	138538	50.0	50.5	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	97	89506	50.0	49.9	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	97	687437	50.0	52.7	
108 Hexachlorobutadiene	225	15.489	15.488	0.000	97	420820	50.0	54.3	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	95	544640	50.0	50.9	
110 Naphthalene	128	15.880	15.880	0.000	97	845154	50.0	48.0	
111 1,2,3-Trichlorobenzene	180	16.075	16.075	0.000	97	480195	50.0	51.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

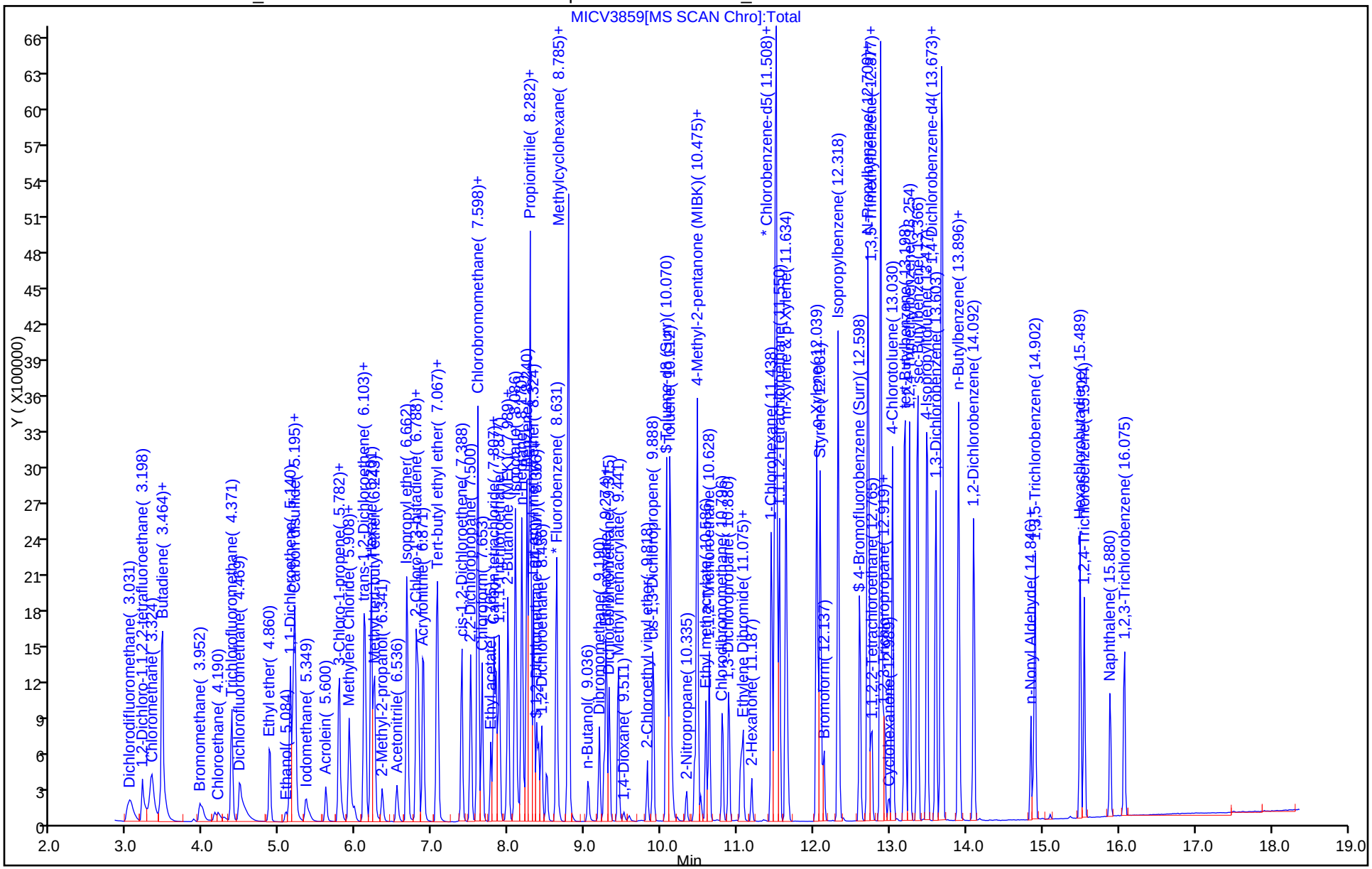
8260 Surr 25_00072	Amount Added: 10.00	Units: uL	
8260NewICVMix_00199	Amount Added: 10.00	Units: uL	
I.S. Working_00144	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 10-Apr-2017 09:12:03 Chrom Revision: 2.2 13-Mar-2017 15:50:30

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICV3859.D

Injection Date:	08-Mar-2017 02:13:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	ICV			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

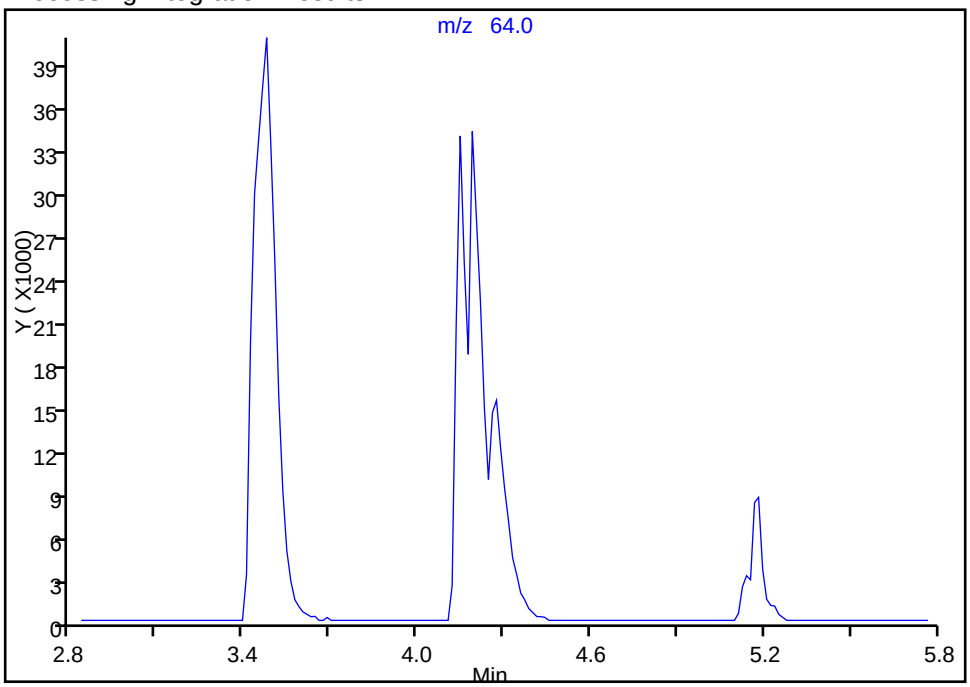
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICV3859.D
Injection Date: 08-Mar-2017 02:13:30 Instrument ID: VMSM
Lims ID: ICV
Client ID:
Operator ID: JDH ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

6 Chloroethane, CAS: 75-00-3

Signal: 1

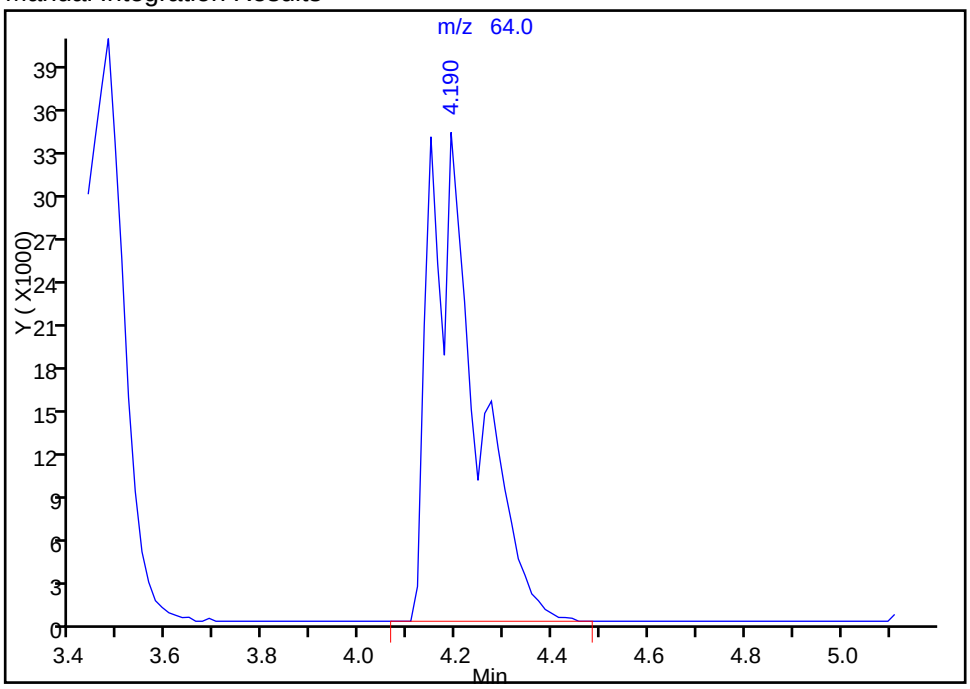
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.19
Area: 232754
Amount: 46.929795
Amount Units: ug/l



Reviewer: buettnera, 09-Mar-2017 14:07:22
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

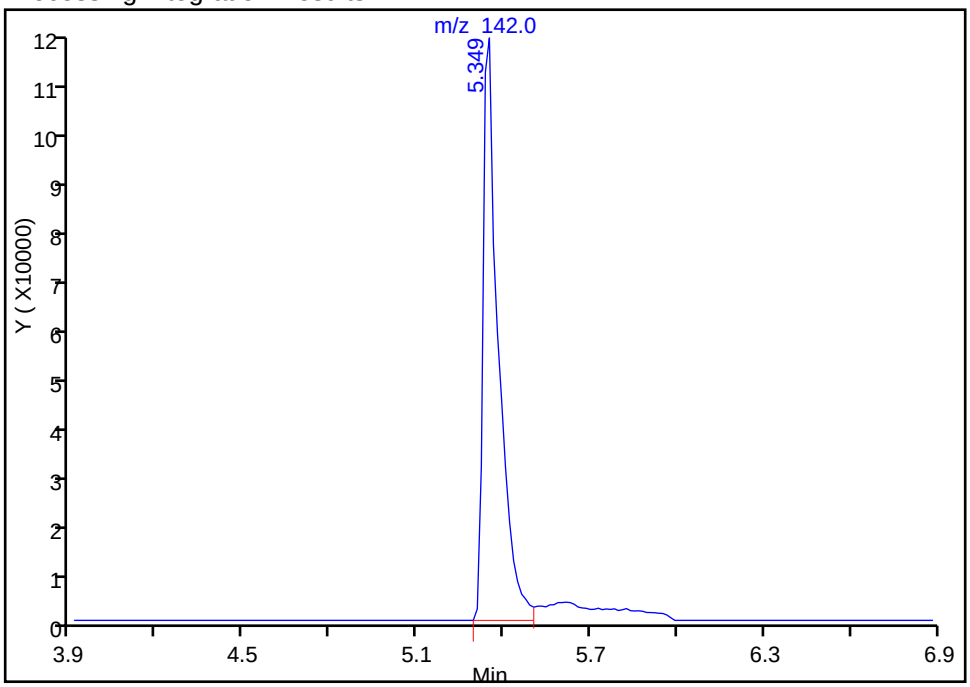
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICV3859.D
Injection Date: 08-Mar-2017 02:13:30 Instrument ID: VMSM
Lims ID: ICV
Client ID:
Operator ID: JDH ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

13 Iodomethane, CAS: 74-88-4

Signal: 1

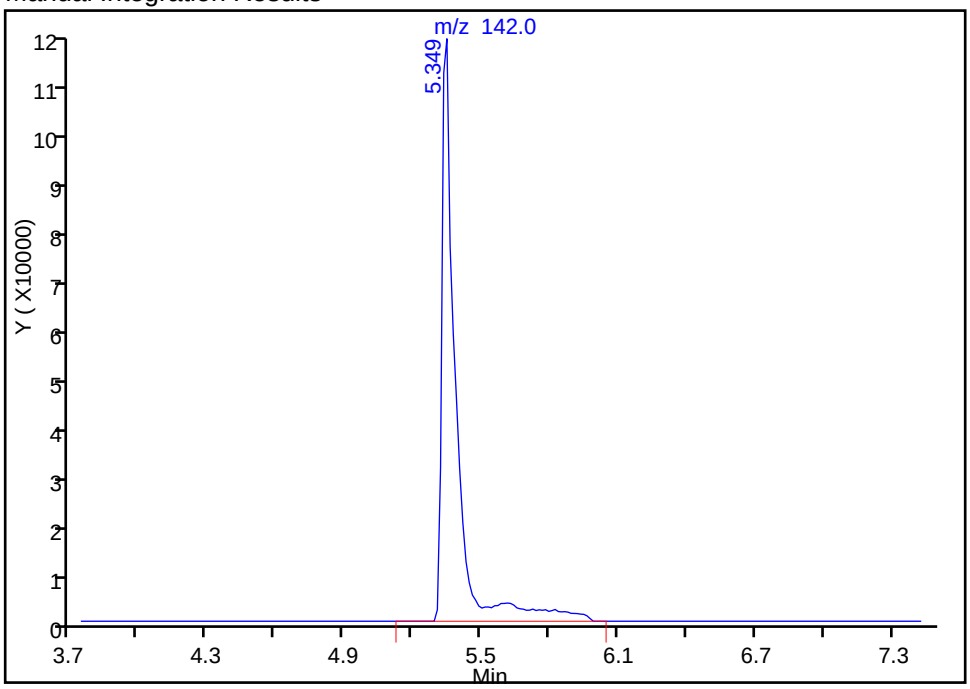
Processing Integration Results

RT: 5.35
Area: 439591
Amount: 44.976545
Amount Units: ug/l



Manual Integration Results

RT: 5.35
Area: 505854
Amount: 54.753975
Amount Units: ug/l



Reviewer: buettnera, 10-Apr-2017 09:12:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Lab Sample ID: CCV 160-303915/4 Calibration Date: 04/17/2017 17:21

Instrument ID: VMSM Calib Start Date: 03/07/2017 21:59

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/08/2017 00:57

Lab File ID: MCCV4333.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	0.2821	0.3533	0.1000	62.6	50.0	25.2*	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.2051	0.1805	0.0100	44.0	50.0	-12.0	20.0
Chloromethane	Ave	0.3675	0.4401	0.1000	59.9	50.0	19.7	20.0
Butadiene	Ave	0.3444	0.3843	0.0100	55.8	50.0	11.6	20.0
Vinyl chloride	Ave	0.3291	0.3666	0.1000	55.7	50.0	11.4	20.0
Bromomethane	Ave	0.1139	0.1608	0.1000	70.6	50.0	41.1*	20.0
Chloroethane	Qua		0.1838	0.1000	71.4	50.0	42.7*	20.0
Trichlorofluoromethane	Ave	0.4000	0.4601	0.1000	57.5	50.0	15.0	20.0
Dichlorofluoromethane	Ave	0.3907	0.4033	0.0100	51.6	50.0	3.2	20.0
Ethyl ether	Ave	0.1315	0.1161	0.0100	44.1	50.0	-11.7	20.0
Ethanol	Ave	0.0020	0.0019*	0.0100	1830	2000	-8.7	20.0
1,1-Dichloroethene	Ave	0.2621	0.2593	0.1000	49.5	50.0	-1.1	20.0
Carbon disulfide	Ave	0.8622	0.8775	0.1000	50.9	50.0	1.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2850	0.2867	0.1000	50.3	50.0	0.6	20.0
Iodomethane	Qua		0.2903	0.0100	60.7	50.0	21.5*	20.0
Acrolein	Ave	0.0282	0.0240	0.0010	213	250	-15.0	20.0
3-Chloro-1-propene	Ave	0.2838	0.3028	0.0100	53.4	50.0	6.7	20.0
Isopropyl alcohol	Ave	0.0106	0.0094*	0.0100	441	500	-11.7	20.0
Methylene Chloride	Ave	0.2506	0.2470	0.1000	49.3	50.0	-1.4	20.0
Acetone	Ave	0.0526	0.0463*	0.1000	44.0	50.0	-12.0	20.0
trans-1,2-Dichloroethene	Ave	0.2880	0.2784	0.1000	48.3	50.0	-3.3	20.0
Methyl acetate	Ave	0.0246	0.0230*	0.1000	234	250	-6.3	20.0
Hexane	Ave	0.0927	0.0925	0.0100	49.9	50.0	-0.3	20.0
Methyl tert-butyl ether	Ave	0.5427	0.4960	0.1000	45.7	50.0	-8.6	20.0
2-Methyl-2-propanol	Ave	0.0173	0.0142	0.0100	411	500	-17.9	20.0
Acetonitrile	Ave	0.0200	0.0206	0.0010	513	500	2.6	20.0
Isopropyl ether	Ave	0.8136	0.8087	0.0100	49.7	50.0	-0.6	20.0
2-Chloro-1,3-butadiene	Ave	0.4322	0.4559	0.0100	52.7	50.0	5.5	20.0
1,1-Dichloroethane	Ave	0.4488	0.4623	0.2000	51.5	50.0	3.0	20.0
Acrylonitrile	Ave	0.0609	0.0631	0.0100	518	500	3.7	20.0
Tert-butyl ethyl ether	Ave	0.7275	0.6686	0.0100	46.0	50.0	-8.1	20.0
Vinyl acetate	Ave	0.4471	0.4579	0.0100	51.2	50.0	2.4	20.0
cis-1,2-Dichloroethene	Ave	0.2978	0.2879	0.1000	48.3	50.0	-3.3	20.0
2,2-Dichloropropane	Ave	0.3800	0.3803	0.0100	50.0	50.0	0.0	20.0
Bromochloromethane	Ave	0.1395	0.1342	0.0100	48.1	50.0	-3.8	20.0
Cyclohexane	Ave	0.4723	0.4553	0.1000	48.2	50.0	-3.6	20.0
Chloroform	Ave	0.4168	0.4263	0.2000	51.1	50.0	2.3	20.0
Ethyl acetate	Ave	0.0241	0.0242	0.0100	100	100	0.4	20.0
Carbon tetrachloride	Ave	0.4028	0.4211	0.1000	52.3	50.0	4.6	20.0
1,1,1-Trichloroethane	Ave	0.4231	0.4425	0.1000	52.3	50.0	4.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Lab Sample ID: CCV 160-303915/4 Calibration Date: 04/17/2017 17:21

Instrument ID: VMSM Calib Start Date: 03/07/2017 21:59

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/08/2017 00:57

Lab File ID: MCCV4333.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
2-Butanone (MEK)	Ave	0.0746	0.0663*	0.1000	44.4	50.0	-11.1	20.0
1,1-Dichloropropene	Ave	0.3515	0.3470	0.0100	49.3	50.0	-1.3	20.0
Isooctane	Ave	1.175	1.214	0.0100	51.7	50.0	3.3	20.0
n-Heptane	Ave	0.5211	0.5684	0.0100	54.5	50.0	9.1	20.0
Benzene	Ave	1.017	1.000	0.5000	49.2	50.0	-1.6	20.0
Propionitrile	Ave	0.0236	0.0240	0.0010	509	500	1.7	20.0
Methacrylonitrile	Ave	0.0978	0.1168	0.0100	597	500	19.4	20.0
Tert-amyl methyl ether	Ave	0.5745	0.5432	0.0100	47.3	50.0	-5.4	20.0
Isobutyl alcohol	Ave	0.0048	0.0043	0.0010	1140	1250	-9.2	20.0
1,2-Dichloroethane	Ave	0.2664	0.2716	0.1000	51.0	50.0	2.0	20.0
Methylcyclohexane	Ave	0.4600	0.4669	0.1000	50.8	50.0	1.5	20.0
Trichloroethene	Ave	0.2870	0.3001	0.2000	52.3	50.0	4.6	20.0
n-Butanol	Ave	0.0049	0.0041*	0.0100	1060	1250	-15.4	20.0
Dibromomethane	Ave	0.1208	0.1207	0.0100	50.0	50.0	-0.0	20.0
Ethyl acrylate	Ave	0.2200	0.2045	0.0100	46.5	50.0	-7.0	20.0
1,2-Dichloropropane	Ave	0.2546	0.2519	0.1000	49.5	50.0	-1.1	20.0
Bromodichloromethane	Ave	0.2844	0.2890	0.2000	50.8	50.0	1.6	20.0
Methyl methacrylate	Ave	0.1110	0.1072	0.0100	96.5	100	-3.5	20.0
1,4-Dioxane	Ave	0.0017	0.0015	0.0010	889	1000	-11.1	20.0
2-Chloroethyl vinyl ether	Lin		0.0893	0.0100	59.0	50.0	17.9	20.0
cis-1,3-Dichloropropene	Ave	0.3604	0.3509	0.2000	48.7	50.0	-2.6	20.0
Toluene	Ave	0.8737	0.8510	0.4000	48.7	50.0	-2.6	20.0
2-Nitropropane	Lin1		0.0515	0.0100	87.3	100	-12.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1887	0.1802	0.1000	47.7	50.0	-4.5	20.0
Tetrachloroethene	Ave	0.3551	0.3614	0.2000	50.9	50.0	1.8	20.0
trans-1,3-Dichloropropene	Ave	0.3757	0.3751	0.1000	49.9	50.0	-0.2	20.0
Ethyl methacrylate	Ave	0.2593	0.2358	0.0100	45.5	50.0	-9.1	20.0
1,1,2-Trichloroethane	Ave	0.1860	0.1824	0.1000	49.0	50.0	-2.0	20.0
Dibromochloromethane	Ave	0.3098	0.3100	0.1000	50.0	50.0	0.0	20.0
1,3-Dichloropropane	Ave	0.3858	0.3712	0.0100	48.1	50.0	-3.8	20.0
1,2-Dibromoethane	Ave	0.2307	0.2229	0.1000	48.3	50.0	-3.4	20.0
n-Butyl acetate	Ave	0.3335	0.3097	0.0100	46.4	50.0	-7.2	20.0
2-Hexanone	Ave	0.1301	0.1185	0.1000	45.5	50.0	-8.9	20.0
1-Chlorohexane	Ave	0.5294	0.4899	0.0100	46.3	50.0	-7.5	20.0
Chlorobenzene	Ave	1.001	1.017	0.5000	50.8	50.0	1.6	20.0
Ethylbenzene	Ave	1.669	1.613	0.1000	48.3	50.0	-3.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3793	0.3818	0.0100	50.3	50.0	0.6	20.0
m,p-Xylenes	Ave	0.6657	0.6476	0.1000	48.6	50.0	-2.7	20.0
o-Xylene	Ave	0.6230	0.5902	0.3000	47.4	50.0	-5.3	20.0
Styrene	Ave	0.9052	0.9307	0.3000	51.4	50.0	2.8	20.0
Bromoform	Ave	0.3509	0.3660	0.1000	52.1	50.0	4.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Lab Sample ID: CCV 160-303915/4 Calibration Date: 04/17/2017 17:21

Instrument ID: VMSM Calib Start Date: 03/07/2017 21:59

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/08/2017 00:57

Lab File ID: MCCV4333.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
Isopropylbenzene	Ave	3.387	3.333	0.1000	49.2	50.0	-1.6	20.0
N-Propylbenzene	Ave	3.402	3.483	0.0100	51.2	50.0	2.4	20.0
Bromobenzene	Ave	0.8861	0.8945	0.0100	50.5	50.0	0.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5074	0.5017	0.3000	49.4	50.0	-1.1	20.0
1,3,5-Trimethylbenzene	Ave	2.307	2.418	0.0100	52.4	50.0	4.8	20.0
2-Chlorotoluene	Ave	2.242	2.378	0.0100	53.0	50.0	6.0	20.0
1,2,3-Trichloropropane	Ave	0.1803	0.1839	0.0100	51.0	50.0	2.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1545	0.1637	0.0100	53.0	50.0	6.0	20.0
Cyclohexanone	Ave	0.0128	0.0112	0.0010	435	500	-12.9	20.0
4-Chlorotoluene	Ave	2.043	2.118	0.0100	51.8	50.0	3.7	20.0
tert-Butylbenzene	Ave	2.372	2.502	0.0100	52.8	50.0	5.5	20.0
1,2,4-Trimethylbenzene	Ave	2.103	2.230	0.0100	53.0	50.0	6.1	20.0
sec-Butylbenzene	Ave	3.307	3.420	0.0100	51.7	50.0	3.4	20.0
p-Isopropyltoluene	Ave	2.738	2.852	0.0100	52.1	50.0	4.2	20.0
1,3-Dichlorobenzene	Ave	1.639	1.709	0.6000	52.1	50.0	4.2	20.0
1,2,3-Trimethylbenzene	Ave	2.055	2.155	0.0100	52.4	50.0	4.8	20.0
1,4-Dichlorobenzene	Ave	1.597	1.685	0.5000	52.7	50.0	5.5	20.0
n-Butylbenzene	Ave	0.6800	0.6995	0.0100	51.4	50.0	2.9	20.0
Benzyl chloride	Ave	0.2654	0.2678	0.0100	50.4	50.0	0.9	20.0
1,2-Dichlorobenzene	Ave	1.470	1.476	0.4000	50.2	50.0	0.4	20.0
n-Nonyl Aldehyde	Qua		0.1089	0.0100	31.8	50.0	-36.4*	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1197	0.1107	0.0500	46.3	50.0	-7.5	20.0
1,3,5-Trichlorobenzene	Ave	0.8693	0.8722	0.0100	50.2	50.0	0.3	20.0
Hexachlorobutadiene	Ave	0.5167	0.5162	0.0100	50.0	50.0	-0.0	20.0
1,2,4-Trichlorobenzene	Ave	0.7137	0.6480	0.2000	45.4	50.0	-9.2	20.0
Naphthalene	Ave	1.174	0.9630	0.0100	41.0	50.0	-18.0	20.0
1,2,3-Trichlorobenzene	Ave	0.6231	0.5337	0.0100	42.8	50.0	-14.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2496	0.2517	0.0100	50.4	50.0	0.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2166	0.2218	0.0100	51.2	50.0	2.4	20.0
Toluene-d8 (Surr)	Ave	1.229	1.237	0.0100	50.3	50.0	0.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8886	0.8298	0.0100	46.7	50.0	-6.6	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MCCV4333.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 17-Apr-2017 17:21:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-004
Misc. Info.: CCVIS
Operator ID: JDH Instrument ID: VMSM
Sublist: chrom-5mL-8260_MSM*sub11

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 16:55:52 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 16:55:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.030	3.030	0.000	99	599919	50.0	62.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	91	306446	50.0	44.0	
3 Chloromethane	50	3.324	3.324	0.000	99	747299	50.0	59.9	
118 Butadiene	39	3.463	3.463	0.000	97	652684	50.0	55.8	
4 Vinyl chloride	62	3.463	3.463	0.000	98	622518	50.0	55.7	
5 Bromomethane	94	3.966	3.966	0.000	90	273004	50.0	70.6	
6 Chloroethane	64	4.148	4.148	0.000	99	312165	50.0	71.4	
7 Trichlorofluoromethane	101	4.371	4.371	0.000	98	781336	50.0	57.5	
119 Dichlorofluoromethane	67	4.469	4.469	0.000	99	684937	50.0	51.6	
8 Ethyl ether	74	4.860	4.860	0.000	97	197176	50.0	44.1	
9 Ethanol	45	5.070	5.070	0.000	97	126659	2000.0	1826.8	
10 1,1-Dichloroethene	96	5.139	5.139	0.000	97	440266	50.0	49.5	
11 Carbon disulfide	76	5.167	5.167	0.000	100	1490114	50.0	50.9	
12 1,1,2-Trichloro-1,2,2-trif	151	5.195	5.195	0.000	90	486836	50.0	50.3	
13 Iodomethane	142	5.335	5.335	0.000	99	492982	50.0	60.7	
14 Acrolein	56	5.600	5.600	0.000	100	203802	250.0	212.6	
16 3-Chloro-1-propene	39	5.768	5.768	0.000	92	514222	50.0	53.4	
17 Isopropyl alcohol	45	5.796	5.796	0.000	97	159237	500.0	441.5	
18 Methylene Chloride	84	5.907	5.907	0.000	98	419474	50.0	49.3	
19 Acetone	43	5.977	5.977	0.000	100	78573	50.0	44.0	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	98	472715	50.0	48.3	
20 Methyl acetate	74	6.117	6.117	0.000	99	195665	250.0	234.3	
22 Hexane	86	6.201	6.201	0.000	93	157054	50.0	49.9	
23 Methyl tert-butyl ether	73	6.229	6.229	0.000	90	842225	50.0	45.7	
24 2-Methyl-2-propanol	59	6.340	6.340	0.000	98	241646	500.0	410.6	
25 Acetonitrile	41	6.536	6.536	0.000	99	348921	500.0	513.1	
26 Isopropyl ether	45	6.662	6.662	0.000	94	1373335	50.0	49.7	
27 2-Chloro-1,3-butadiene	53	6.787	6.787	0.000	92	774239	50.0	52.7	
28 1,1-Dichloroethane	63	6.815	6.815	0.000	96	785137	50.0	51.5	
29 Acrylonitrile	53	6.871	6.871	0.000	98	1071877	500.0	518.3	

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	7.053	7.053	0.000	97	1135386	50.0	46.0	
31 Vinyl acetate	43	7.067	7.067	0.000	98	777562	50.0	51.2	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	78	488986	50.0	48.3	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	93	645801	50.0	50.0	
34 Chlorobromomethane	128	7.583	7.583	0.000	98	227926	50.0	48.1	
35 Cyclohexane	84	7.597	7.597	0.000	92	773134	50.0	48.2	
36 Chloroform	83	7.653	7.653	0.000	94	723926	50.0	51.1	
37 Ethyl acetate	45	7.765	7.765	0.000	99	82236	100.0	100.4	
38 Carbon tetrachloride	117	7.807	7.807	0.000	97	715158	50.0	52.3	
39 Tetrahydrofuran	71	7.821	7.821	0.000	92	55135	100.0	90.1	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	95	427503	50.0	50.4	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	98	751393	50.0	52.3	
42 2-Butanone (MEK)	43	7.961	7.961	0.000	99	112569	50.0	44.4	
43 1,1-Dichloropropene	75	7.988	7.988	0.000	92	589189	50.0	49.3	
121 Isooctane	57	8.086	8.086	0.000	100	2061819	50.0	51.7	
113 n-Heptane	43	8.170	8.170	0.000	94	965242	50.0	54.5	
45 Benzene	78	8.240	8.240	0.000	98	1698024	50.0	49.2	
46 Propionitrile	54	8.268	8.268	0.000	92	407642	500.0	508.6	
47 Methacrylonitrile	41	8.282	8.282	0.000	94	1984128	500.0	597.1	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	94	922379	50.0	47.3	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	376715	50.0	51.2	
44 Isobutyl alcohol	42	8.393	8.393	0.000	93	183577	1250.0	1135.0	
50 1,2-Dichloroethane	62	8.421	8.421	0.000	96	461203	50.0	51.0	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1698202	50.0	50.0	
53 Methylcyclohexane	55	8.785	8.785	0.000	91	792953	50.0	50.8	
52 Trichloroethene	95	8.785	8.785	0.000	74	509681	50.0	52.3	
54 n-Butanol	56	9.036	9.036	0.000	90	174655	1250.0	1057.5	
55 Dibromomethane	93	9.190	9.190	0.000	92	204959	50.0	50.0	
120 Ethyl acrylate	55	9.245	9.245	0.000	99	347273	50.0	46.5	
56 1,2-Dichloropropane	63	9.273	9.273	0.000	95	427848	50.0	49.5	
57 Dichlorobromomethane	83	9.315	9.315	0.000	98	490716	50.0	50.8	
58 Methyl methacrylate	69	9.427	9.427	0.000	96	363926	100.0	96.5	
59 1,4-Dioxane	88	9.511	9.511	0.000	95	51848	1000.0	889.3	
60 2-Chloroethyl vinyl ether	63	9.818	9.818	0.000	93	151612	50.0	59.0	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	93	595867	50.0	48.7	
$ 62 Toluene-d8 (Surr)	98	10.069	10.069	0.000	92	1718672	50.0	50.3	
63 Toluene	92	10.111	10.111	0.000	99	1182703	50.0	48.7	
64 2-Nitropropane	43	10.321	10.321	0.000	99	143224	100.0	87.3	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	98	250419	50.0	47.7	
66 Tetrachloroethene	164	10.460	10.460	0.000	95	502276	50.0	50.9	
61 trans-1,3-Dichloropropene	75	10.474	10.474	0.000	92	521264	50.0	49.9	
67 Ethyl methacrylate	69	10.586	10.586	0.000	92	327704	50.0	45.5	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	89	253454	50.0	49.0	
69 Chlorodibromomethane	129	10.796	10.796	0.000	91	430833	50.0	50.0	
70 1,3-Dichloropropane	76	10.879	10.879	0.000	95	515848	50.0	48.1	
72 Ethylene Dibromide	107	11.033	11.033	0.000	98	309815	50.0	48.3	
116 n-Butyl acetate	43	11.061	11.061	0.000	98	430350	50.0	46.4	
73 2-Hexanone	43	11.187	11.187	0.000	96	164659	50.0	45.5	
75 1-Chlorohexane	91	11.438	11.438	0.000	97	680885	50.0	46.3	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	83	1389739	50.0	50.0	
78 Chlorobenzene	112	11.508	11.508	0.000	84	1412852	50.0	50.8	
77 Ethylbenzene	91	11.508	11.508	0.000	91	2241468	50.0	48.3	

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	11.550	11.550	0.000	94	530567	50.0	50.3	
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	98	900057	50.0	48.6	
81 o-Xylene	106	12.039	12.039	0.000	95	820234	50.0	47.4	
82 Styrene	104	12.081	12.081	0.000	93	1293422	50.0	51.4	
84 Bromoform	173	12.136	12.136	0.000	98	243261	50.0	52.1	
85 Isopropylbenzene	105	12.318	12.318	0.000	94	2215042	50.0	49.2	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.597	0.000	93	551497	50.0	46.7	
87 N-Propylbenzene	91	12.695	12.695	0.000	97	2314659	50.0	51.2	
88 Bromobenzene	156	12.723	12.723	0.000	89	594472	50.0	50.5	
89 1,1,2,2-Tetrachloroethane	83	12.751	12.751	0.000	96	333454	50.0	49.4	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	90	1607037	50.0	52.4	
91 2-Chlorotoluene	91	12.877	12.877	0.000	96	1580195	50.0	53.0	
92 1,2,3-Trichloropropane	110	12.905	12.905	0.000	87	122216	50.0	51.0	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	85	108802	50.0	53.0	
94 Cyclohexanone	55	12.974	12.974	0.000	95	74142	500.0	435.4	
95 4-Chlorotoluene	91	13.030	13.030	0.000	95	1407431	50.0	51.8	
96 tert-Butylbenzene	119	13.184	13.184	0.000	92	1662941	50.0	52.8	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	96	1482344	50.0	53.0	
98 sec-Butylbenzene	105	13.352	13.352	0.000	94	2272906	50.0	51.7	
99 4-Isopropyltoluene	119	13.477	13.477	0.000	96	1895435	50.0	52.1	
100 1,3-Dichlorobenzene	146	13.603	13.603	0.000	97	1135459	50.0	52.1	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	94	664595	50.0	50.0	
102 1,4-Dichlorobenzene	146	13.673	13.673	0.000	88	1119611	50.0	52.7	
117 1,2,3-Trimethylbenzene	105	13.673	13.673	0.000	95	1431878	50.0	52.4	
103 n-Butylbenzene	134	13.896	13.896	0.000	96	464873	50.0	51.4	
114 Benzyl chloride	126	13.910	13.910	0.000	95	177955	50.0	50.4	
104 1,2-Dichlorobenzene	146	14.092	14.092	0.000	99	981067	50.0	50.2	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	90	72364	50.0	31.8	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	92	73591	50.0	46.3	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	98	579671	50.0	50.2	
108 Hexachlorobutadiene	225	15.488	15.488	0.000	97	343069	50.0	50.0	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	94	430674	50.0	45.4	
110 Naphthalene	128	15.879	15.879	0.000	97	640021	50.0	41.0	
111 1,2,3-Trichlorobenzene	180	16.075	16.075	0.000	97	354664	50.0	42.8	

Reagents:

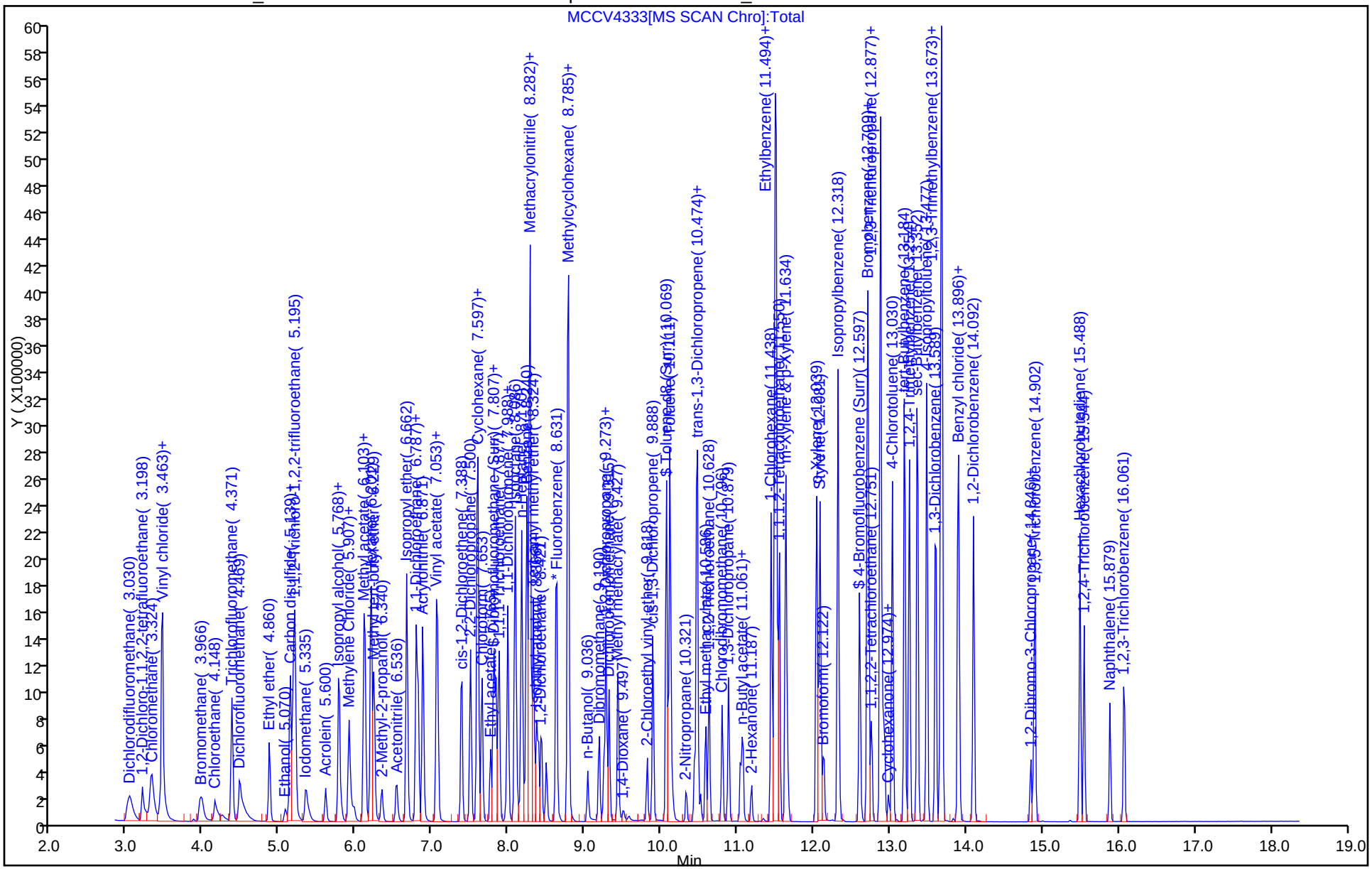
8260 NewWkMix_00215	Amount Added: 10.00	Units: uL	
I.S. Working_00146	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 16:55:52 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MCCV4333.D

Injection Date:	17-Apr-2017 17:21:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Lab Sample ID: CCVC 160-303915/22 Calibration Date: 04/18/2017 01:09

Instrument ID: VMSM Calib Start Date: 03/07/2017 21:59

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/08/2017 00:57

Lab File ID: MCCV4351.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	0.2821	0.3498	0.1000	62.0	50.0	24.0	50.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.2051	0.1763	0.0100	43.0	50.0	-14.1	50.0
Chloromethane	Ave	0.3675	0.4258	0.1000	57.9	50.0	15.9	50.0
Butadiene	Ave	0.3444	0.3588	0.0100	52.1	50.0	4.2	50.0
Vinyl chloride	Ave	0.3291	0.3524	0.1000	53.5	50.0	7.0	50.0
Bromomethane	Ave	0.1139	0.1254	0.1000	55.0	50.0	10.1	50.0
Chloroethane	Qua		0.1689	0.1000	66.1	50.0	32.2	50.0
Trichlorofluoromethane	Ave	0.4000	0.4488	0.1000	56.1	50.0	12.2	50.0
Dichlorofluoromethane	Ave	0.3907	0.4005	0.0100	51.3	50.0	2.5	50.0
Ethyl ether	Ave	0.1315	0.1218	0.0100	46.3	50.0	-7.4	50.0
Ethanol	Ave	0.0020	0.0018*	0.0100	1800	2000	-10.2	50.0
1,1-Dichloroethene	Ave	0.2621	0.2597	0.1000	49.5	50.0	-0.9	50.0
Carbon disulfide	Ave	0.8622	0.8762	0.1000	50.8	50.0	1.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2850	0.2855	0.1000	50.1	50.0	0.2	50.0
Iodomethane	Qua		0.1769	0.0100	39.4	50.0	-21.2	50.0
Acrolein	Ave	0.0282	0.0207	0.0010	183	250	-26.8	50.0
3-Chloro-1-propene	Ave	0.2838	0.2976	0.0100	52.4	50.0	4.9	50.0
Isopropyl alcohol	Ave	0.0106	0.0091*	0.0100	431	500	-13.9	50.0
Methylene Chloride	Ave	0.2506	0.2474	0.1000	49.4	50.0	-1.3	50.0
Acetone	Ave	0.0526	0.0425*	0.1000	40.4	50.0	-19.2	50.0
trans-1,2-Dichloroethene	Ave	0.2880	0.2823	0.1000	49.0	50.0	-2.0	50.0
Methyl acetate	Ave	0.0246	0.0227*	0.1000	231	250	-7.5	50.0
Hexane	Ave	0.0927	0.0913	0.0100	49.2	50.0	-1.5	50.0
Methyl tert-butyl ether	Ave	0.5427	0.5020	0.1000	46.2	50.0	-7.5	50.0
2-Methyl-2-propanol	Ave	0.0173	0.0137	0.0100	396	500	-20.8	50.0
Acetonitrile	Ave	0.0200	0.0201	0.0010	503	500	0.5	50.0
Isopropyl ether	Ave	0.8136	0.8438	0.0100	51.9	50.0	3.7	50.0
2-Chloro-1,3-butadiene	Ave	0.4322	0.4676	0.0100	54.1	50.0	8.2	50.0
1,1-Dichloroethane	Ave	0.4488	0.4669	0.2000	52.0	50.0	4.0	50.0
Acrylonitrile	Ave	0.0609	0.0612	0.0100	503	500	0.5	50.0
Tert-butyl ethyl ether	Ave	0.7275	0.6977	0.0100	48.0	50.0	-4.1	50.0
Vinyl acetate	Ave	0.4471	0.4421	0.0100	49.4	50.0	-1.1	50.0
cis-1,2-Dichloroethene	Ave	0.2978	0.2945	0.1000	49.4	50.0	-1.1	50.0
2,2-Dichloropropane	Ave	0.3800	0.3633	0.0100	47.8	50.0	-4.4	50.0
Bromochloromethane	Ave	0.1395	0.1412	0.0100	50.6	50.0	1.3	50.0
Cyclohexane	Ave	0.4723	0.4638	0.1000	49.1	50.0	-1.8	50.0
Chloroform	Ave	0.4168	0.4300	0.2000	51.6	50.0	3.2	50.0
Ethyl acetate	Ave	0.0241	0.0231	0.0100	95.7	100	-4.3	50.0
Carbon tetrachloride	Ave	0.4028	0.4258	0.1000	52.9	50.0	5.7	50.0
1,1,1-Trichloroethane	Ave	0.4231	0.4468	0.1000	52.8	50.0	5.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Lab Sample ID: CCVC 160-303915/22 Calibration Date: 04/18/2017 01:09

Instrument ID: VMSM Calib Start Date: 03/07/2017 21:59

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/08/2017 00:57

Lab File ID: MCCV4351.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
2-Butanone (MEK)	Ave	0.0746	0.0686*	0.1000	46.0	50.0	-8.0	50.0
1,1-Dichloropropene	Ave	0.3515	0.3481	0.0100	49.5	50.0	-1.0	50.0
Isooctane	Ave	1.175	1.267	0.0100	53.9	50.0	7.8	50.0
n-Heptane	Ave	0.5211	0.5853	0.0100	56.2	50.0	12.3	50.0
Benzene	Ave	1.017	1.011	0.5000	49.7	50.0	-0.6	50.0
Propionitrile	Ave	0.0236	0.0232	0.0010	492	500	-1.6	50.0
Methacrylonitrile	Ave	0.0978	0.1140	0.0100	583	500	16.5	50.0
Tert-amyl methyl ether	Ave	0.5745	0.5531	0.0100	48.1	50.0	-3.7	50.0
Isobutyl alcohol	Ave	0.0048	0.0043	0.0010	1110	1250	-10.9	50.0
1,2-Dichloroethane	Ave	0.2664	0.2736	0.1000	51.4	50.0	2.7	50.0
Methylcyclohexane	Ave	0.4600	0.4775	0.1000	51.9	50.0	3.8	50.0
Trichloroethene	Ave	0.2870	0.3016	0.2000	52.6	50.0	5.1	50.0
n-Butanol	Ave	0.0049	0.0039*	0.0100	1010	1250	-19.3	50.0
Dibromomethane	Ave	0.1208	0.1214	0.0100	50.3	50.0	0.6	50.0
Ethyl acrylate	Ave	0.2200	0.2058	0.0100	46.8	50.0	-6.4	50.0
1,2-Dichloropropane	Ave	0.2546	0.2572	0.1000	50.5	50.0	1.0	50.0
Bromodichloromethane	Ave	0.2844	0.2925	0.2000	51.4	50.0	2.9	50.0
Methyl methacrylate	Ave	0.1110	0.1062	0.0100	95.6	100	-4.4	50.0
1,4-Dioxane	Ave	0.0017	0.0014	0.0010	823	1000	-17.7	50.0
2-Chloroethyl vinyl ether	Lin		0.0481	0.0100	28.3	50.0	-43.3	50.0
cis-1,3-Dichloropropene	Ave	0.3604	0.3550	0.2000	49.3	50.0	-1.5	50.0
Toluene	Ave	0.8737	0.8687	0.4000	49.7	50.0	-0.6	50.0
2-Nitropropane	Lin1		0.0475	0.0100	80.8	100	-19.2	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1887	0.1770	0.1000	46.9	50.0	-6.2	50.0
Tetrachloroethene	Ave	0.3551	0.3636	0.2000	51.2	50.0	2.4	50.0
trans-1,3-Dichloropropene	Ave	0.3757	0.3670	0.1000	48.8	50.0	-2.3	50.0
Ethyl methacrylate	Ave	0.2593	0.2404	0.0100	46.4	50.0	-7.3	50.0
1,1,2-Trichloroethane	Ave	0.1860	0.1813	0.1000	48.7	50.0	-2.6	50.0
Dibromochloromethane	Ave	0.3098	0.3101	0.1000	50.0	50.0	0.0	50.0
1,3-Dichloropropane	Ave	0.3858	0.3727	0.0100	48.3	50.0	-3.4	50.0
1,2-Dibromoethane	Ave	0.2307	0.2205	0.1000	47.8	50.0	-4.4	50.0
n-Butyl acetate	Ave	0.3335	0.3081	0.0100	46.2	50.0	-7.6	50.0
2-Hexanone	Ave	0.1301	0.1164	0.1000	44.7	50.0	-10.5	50.0
1-Chlorohexane	Ave	0.5294	0.5008	0.0100	47.3	50.0	-5.4	50.0
Chlorobenzene	Ave	1.001	1.038	0.5000	51.8	50.0	3.7	50.0
Ethylbenzene	Ave	1.669	1.623	0.1000	48.6	50.0	-2.7	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3793	0.3875	0.0100	51.1	50.0	2.2	50.0
m,p-Xylenes	Ave	0.6657	0.6656	0.1000	50.0	50.0	-0.0	50.0
o-Xylene	Ave	0.6230	0.6167	0.3000	49.5	50.0	-1.0	50.0
Styrene	Ave	0.9052	0.9528	0.3000	52.6	50.0	5.3	50.0
Bromoform	Ave	0.3509	0.3453	0.1000	49.2	50.0	-1.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Lab Sample ID: CCVC 160-303915/22 Calibration Date: 04/18/2017 01:09

Instrument ID: VMSM Calib Start Date: 03/07/2017 21:59

GC Column: RTX-VMS40 ID: 0.18(mm) Calib End Date: 03/08/2017 00:57

Lab File ID: MCCV4351.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
Isopropylbenzene	Ave	3.387	3.328	0.1000	49.1	50.0	-1.7	50.0
N-Propylbenzene	Ave	3.402	3.405	0.0100	50.0	50.0	0.0	50.0
Bromobenzene	Ave	0.8861	0.8765	0.0100	49.5	50.0	-1.1	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5074	0.4792	0.3000	47.2	50.0	-5.6	50.0
1,3,5-Trimethylbenzene	Ave	2.307	2.412	0.0100	52.3	50.0	4.6	50.0
2-Chlorotoluene	Ave	2.242	2.334	0.0100	52.0	50.0	4.1	50.0
1,2,3-Trichloropropane	Ave	0.1803	0.1734	0.0100	48.1	50.0	-3.9	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1545	0.1465	0.0100	47.4	50.0	-5.2	50.0
Cyclohexanone	Ave	0.0128	0.0100	0.0010	391	500	-21.9	50.0
4-Chlorotoluene	Ave	2.043	2.081	0.0100	50.9	50.0	1.9	50.0
tert-Butylbenzene	Ave	2.372	2.502	0.0100	52.7	50.0	5.5	50.0
1,2,4-Trimethylbenzene	Ave	2.103	2.243	0.0100	53.3	50.0	6.7	50.0
sec-Butylbenzene	Ave	3.307	3.347	0.0100	50.6	50.0	1.2	50.0
p-Isopropyltoluene	Ave	2.738	2.828	0.0100	51.7	50.0	3.3	50.0
1,3-Dichlorobenzene	Ave	1.639	1.668	0.6000	50.9	50.0	1.7	50.0
1,2,3-Trimethylbenzene	Ave	2.055	2.171	0.0100	52.8	50.0	5.6	50.0
1,4-Dichlorobenzene	Ave	1.597	1.634	0.5000	51.2	50.0	2.3	50.0
n-Butylbenzene	Ave	0.6800	0.6979	0.0100	51.3	50.0	2.6	50.0
Benzyl chloride	Ave	0.2654	0.2100	0.0100	39.6	50.0	-20.9	50.0
1,2-Dichlorobenzene	Ave	1.470	1.458	0.4000	49.6	50.0	-0.8	50.0
n-Nonyl Aldehyde	Qua		0.0780	0.0100	23.6	50.0	-52.9*	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1197	0.1045	0.0500	43.7	50.0	-12.6	50.0
1,3,5-Trichlorobenzene	Ave	0.8693	0.8590	0.0100	49.4	50.0	-1.2	50.0
Hexachlorobutadiene	Ave	0.5167	0.5054	0.0100	48.9	50.0	-2.2	50.0
1,2,4-Trichlorobenzene	Ave	0.7137	0.6554	0.2000	45.9	50.0	-8.2	50.0
Naphthalene	Ave	1.174	0.9768	0.0100	41.6	50.0	-16.8	50.0
1,2,3-Trichlorobenzene	Ave	0.6231	0.5545	0.0100	44.5	50.0	-11.0	50.0
Dibromofluoromethane (Surr)	Ave	0.2496	0.2524	0.0100	50.6	50.0	1.1	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2166	0.2182	0.0100	50.4	50.0	0.8	50.0
Toluene-d8 (Surr)	Ave	1.229	1.240	0.0100	50.4	50.0	0.8	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8886	0.8129	0.0100	45.7	50.0	-8.5	50.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MCCV4351.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 18-Apr-2017 01:09:30 ALS Bottle#: 20 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-022
Misc. Info.: CCVC
Operator ID: JDH Instrument ID: VMSM
Sublist: chrom-5mL-8260_MSM*sub11

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 17:48:10 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 17:48:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.031	3.031	0.000	99	594716	50.0	62.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	92	299740	50.0	43.0	
3 Chloromethane	50	3.310	3.310	0.000	99	723906	50.0	57.9	
118 Butadiene	39	3.450	3.450	0.000	95	609973	50.0	52.1	
4 Vinyl chloride	62	3.464	3.464	0.000	98	599020	50.0	53.5	
5 Bromomethane	94	3.952	3.952	0.000	90	213172	50.0	55.0	
6 Chloroethane	64	4.162	4.162	0.000	100	287128	50.0	66.1	
7 Trichlorofluoromethane	101	4.371	4.371	0.000	98	762936	50.0	56.1	
119 Dichlorofluoromethane	67	4.469	4.469	0.000	99	680942	50.0	51.3	
8 Ethyl ether	74	4.860	4.860	0.000	97	206987	50.0	46.3	
9 Ethanol	45	5.070	5.070	0.000	97	124634	2000.0	1795.7	
10 1,1-Dichloroethene	96	5.140	5.140	0.000	97	441465	50.0	49.5	
11 Carbon disulfide	76	5.167	5.167	0.000	100	1489584	50.0	50.8	
12 1,1,2-Trichloro-1,2,2-trif	151	5.195	5.195	0.000	90	485412	50.0	50.1	
13 Iodomethane	142	5.335	5.335	0.000	98	300653	50.0	39.4	
14 Acrolein	56	5.600	5.600	0.000	100	175717	250.0	183.1	
16 3-Chloro-1-propene	39	5.768	5.768	0.000	92	505868	50.0	52.4	
17 Isopropyl alcohol	45	5.810	5.810	0.000	98	155457	500.0	430.5	
S 15 1,2-Dichloroethene, Total	96				0			98.5	
18 Methylene Chloride	84	5.908	5.908	0.000	96	420610	50.0	49.4	
19 Acetone	43	5.978	5.978	0.000	100	72256	50.0	40.4	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	98	479944	50.0	49.0	
20 Methyl acetate	74	6.117	6.117	0.000	99	193252	250.0	231.2	
22 Hexane	86	6.201	6.201	0.000	92	155191	50.0	49.2	
23 Methyl tert-butyl ether	73	6.229	6.229	0.000	91	853392	50.0	46.2	
24 2-Methyl-2-propanol	59	6.341	6.341	0.000	97	233241	500.0	395.9	
25 Acetonitrile	41	6.536	6.536	0.000	99	342149	500.0	502.6	
26 Isopropyl ether	45	6.662	6.662	0.000	94	1434563	50.0	51.9	
27 2-Chloro-1,3-butadiene	53	6.788	6.788	0.000	92	795013	50.0	54.1	
28 1,1-Dichloroethane	63	6.816	6.816	0.000	96	793743	50.0	52.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	6.871	6.871	0.000	98	1040444	500.0	502.5	
30 Tert-butyl ethyl ether	59	7.053	7.053	0.000	97	1186060	50.0	48.0	
31 Vinyl acetate	43	7.067	7.067	0.000	98	751656	50.0	49.4	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	78	500667	50.0	49.4	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	93	617583	50.0	47.8	
34 Chlorobromomethane	128	7.584	7.584	0.000	97	240096	50.0	50.6	
35 Cyclohexane	84	7.598	7.598	0.000	92	788422	50.0	49.1	
36 Chloroform	83	7.653	7.653	0.000	94	731025	50.0	51.6	
37 Ethyl acetate	45	7.765	7.765	0.000	99	78444	100.0	95.7	
38 Carbon tetrachloride	117	7.807	7.807	0.000	96	723928	50.0	52.9	
39 Tetrahydrofuran	71	7.821	7.821	0.000	92	55035	100.0	89.8	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	93	429164	50.0	50.6	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	98	759516	50.0	52.8	
42 2-Butanone (MEK)	43	7.961	7.961	0.000	99	116673	50.0	46.0	
43 1,1-Dichloropropene	75	7.989	7.989	0.000	94	591753	50.0	49.5	
121 Isooctane	57	8.086	8.086	0.000	100	2154292	50.0	53.9	
113 n-Heptane	43	8.170	8.170	0.000	94	995066	50.0	56.2	
45 Benzene	78	8.240	8.240	0.000	98	1718056	50.0	49.7	
46 Propionitrile	54	8.268	8.268	0.000	95	394608	500.0	491.8	
47 Methacrylonitrile	41	8.282	8.282	0.000	94	1938294	500.0	582.7	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	94	940297	50.0	48.1	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	371030	50.0	50.4	
44 Isobutyl alcohol	42	8.394	8.394	0.000	95	180429	1250.0	1114.3	
50 1,2-Dichloroethane	62	8.422	8.422	0.000	96	465126	50.0	51.4	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1700072	50.0	50.0	
53 Methylcyclohexane	55	8.785	8.785	0.000	91	811830	50.0	51.9	
52 Trichloroethene	95	8.785	8.785	0.000	73	512745	50.0	52.6	
54 n-Butanol	56	9.036	9.036	0.000	89	166736	1250.0	1008.5	
55 Dibromomethane	93	9.190	9.190	0.000	92	206460	50.0	50.3	
120 Ethyl acrylate	55	9.246	9.246	0.000	99	349854	50.0	46.8	
56 1,2-Dichloropropane	63	9.274	9.274	0.000	94	437230	50.0	50.5	
57 Dichlorobromomethane	83	9.315	9.315	0.000	98	497208	50.0	51.4	
58 Methyl methacrylate	69	9.427	9.427	0.000	96	360966	100.0	95.6	
59 1,4-Dioxane	88	9.497	9.497	0.000	96	48007	1000.0	822.5	
60 2-Chloroethyl vinyl ether	63	9.818	9.818	0.000	93	81692	50.0	28.3	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	94	603545	50.0	49.3	
$ 62 Toluene-d8 (Surr)	98	10.070	10.070	0.000	92	1737479	50.0	50.4	
63 Toluene	92	10.112	10.112	0.000	99	1217460	50.0	49.7	
64 2-Nitropropane	43	10.321	10.321	0.000	98	133122	100.0	80.8	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	98	248084	50.0	46.9	
66 Tetrachloroethene	164	10.461	10.461	0.000	93	509524	50.0	51.2	
61 trans-1,3-Dichloropropene	75	10.475	10.475	0.000	92	514321	50.0	48.8	
67 Ethyl methacrylate	69	10.586	10.586	0.000	92	336913	50.0	46.4	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	89	254025	50.0	48.7	
69 Chlorodibromomethane	129	10.796	10.796	0.000	90	434525	50.0	50.0	
70 1,3-Dichloropropane	76	10.880	10.880	0.000	95	522366	50.0	48.3	
72 Ethylene Dibromide	107	11.033	11.033	0.000	98	309006	50.0	47.8	
116 n-Butyl acetate	43	11.061	11.061	0.000	98	431736	50.0	46.2	
73 2-Hexanone	43	11.187	11.187	0.000	96	163132	50.0	44.7	
75 1-Chlorohexane	91	11.438	11.438	0.000	96	701880	50.0	47.3	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	84	1401409	50.0	50.0	
78 Chlorobenzene	112	11.508	11.508	0.000	84	1454392	50.0	51.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Ethylbenzene	91	11.508	11.508	0.000	92	2275130	50.0	48.6	
79 1,1,1,2-Tetrachloroethane	131	11.550	11.550	0.000	92	543093	50.0	51.1	
S 74 1,3-Dichloropropene, Total	75				0			98.1	
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	98	932733	50.0	50.0	
81 o-Xylene	106	12.039	12.039	0.000	94	864208	50.0	49.5	
82 Styrene	104	12.081	12.081	0.000	93	1335197	50.0	52.6	
84 Bromoform	173	12.123	12.123	0.000	98	238688	50.0	49.2	
85 Isopropylbenzene	105	12.318	12.318	0.000	94	2300264	50.0	49.1	
$ 86 4-Bromofluorobenzene (Surr	95	12.598	12.598	0.000	95	561934	50.0	45.7	
87 N-Propylbenzene	91	12.695	12.695	0.000	97	2353540	50.0	50.0	
88 Bromobenzene	156	12.723	12.723	0.000	90	605865	50.0	49.5	
89 1,1,2,2-Tetrachloroethane	83	12.751	12.751	0.000	96	331233	50.0	47.2	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	90	1667311	50.0	52.3	
91 2-Chlorotoluene	91	12.877	12.877	0.000	95	1613243	50.0	52.0	
92 1,2,3-Trichloropropane	110	12.905	12.905	0.000	77	119856	50.0	48.1	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	95	101261	50.0	47.4	
94 Cyclohexanone	55	12.975	12.975	0.000	93	69182	500.0	390.7	
95 4-Chlorotoluene	91	13.030	13.030	0.000	94	1438616	50.0	50.9	
96 tert-Butylbenzene	119	13.184	13.184	0.000	91	1729456	50.0	52.7	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	95	1550642	50.0	53.3	
98 sec-Butylbenzene	105	13.352	13.352	0.000	94	2313593	50.0	50.6	
99 4-Isopropyltoluene	119	13.477	13.477	0.000	96	1954979	50.0	51.7	
100 1,3-Dichlorobenzene	146	13.589	13.589	0.000	98	1152881	50.0	50.9	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	94	691244	50.0	50.0	
102 1,4-Dichlorobenzene	146	13.673	13.673	0.000	90	1129442	50.0	51.2	
117 1,2,3-Trimethylbenzene	105	13.673	13.673	0.000	90	1500683	50.0	52.8	
103 n-Butylbenzene	134	13.896	13.896	0.000	96	482394	50.0	51.3	
114 Benzyl chloride	126	13.910	13.910	0.000	95	145176	50.0	39.6	
104 1,2-Dichlorobenzene	146	14.092	14.092	0.000	99	1007520	50.0	49.6	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	90	53880	50.0	23.6	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	97	72256	50.0	43.7	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	98	593797	50.0	49.4	
108 Hexachlorobutadiene	225	15.489	15.489	0.000	97	349319	50.0	48.9	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	95	453019	50.0	45.9	
110 Naphthalene	128	15.880	15.880	0.000	96	675181	50.0	41.6	
111 1,2,3-Trichlorobenzene	180	16.061	16.061	0.000	97	383264	50.0	44.5	
S 112 Xylenes, Total	106				0			99.5	
S 115 Trihalomethanes, Total	1				0			202.2	

Reagents:

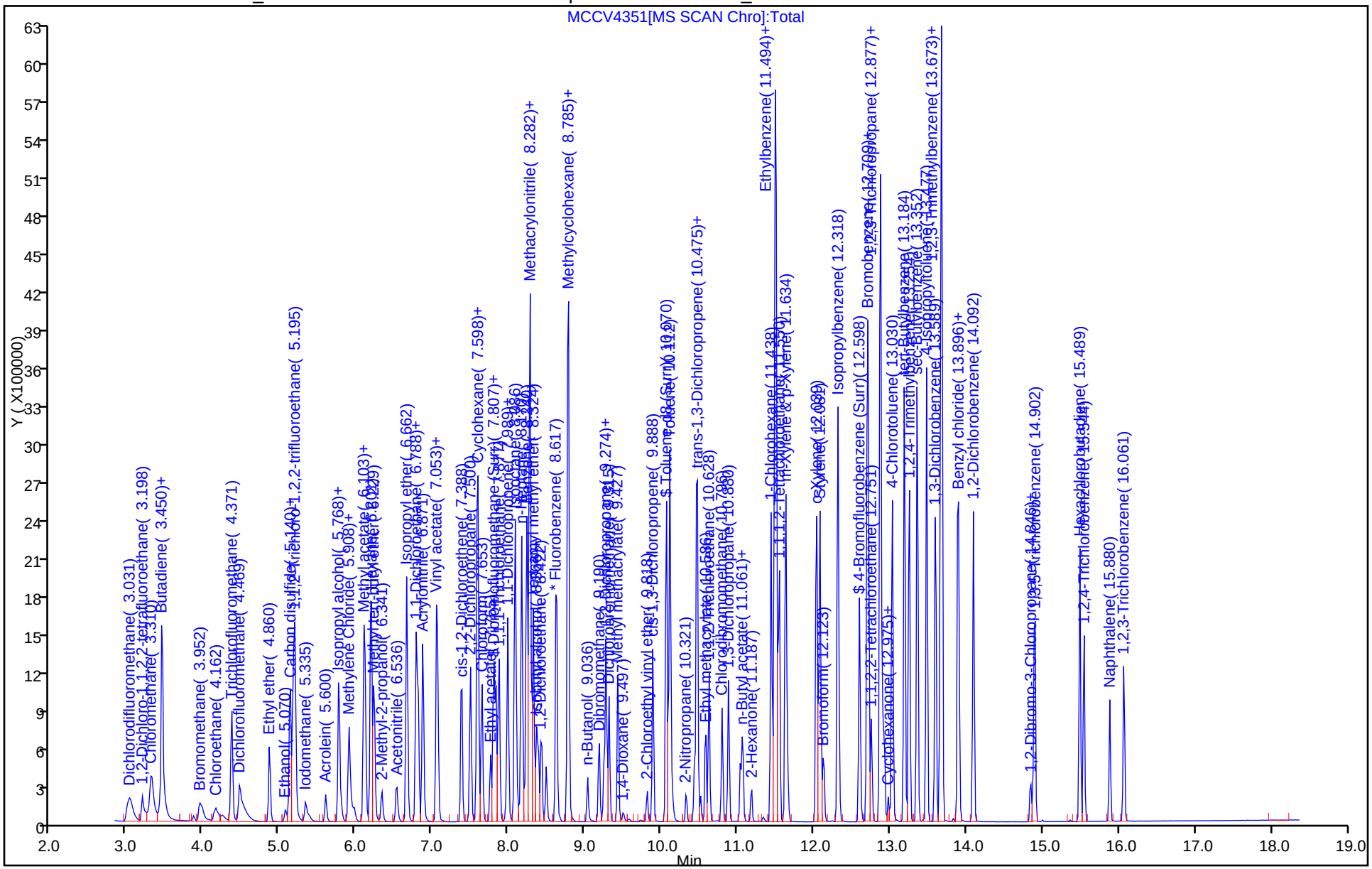
8260 NewWkMix_00215	Amount Added: 10.00	Units: uL	
I.S. Working_00146	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 17:48:11 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MCCV4351.D

Injection Date:	18-Apr-2017 01:09:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	CCVC			Worklist Smp#:	22
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MBFB3848.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 07-Mar-2017 21:37:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: 160-0009951-002
Misc. Info.: BFB
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 10-Apr-2017 09:11:46 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK036

First Level Reviewer: hannj Date: 07-Mar-2017 21:58:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 51 Fluorobenzene	96		8.631				50.0	ND	
* 76 Chlorobenzene-d5	117		11.494				50.0	ND	
* 101 1,4-Dichlorobenzene-d4	152		13.673				50.0	ND	
$ 123 BFB	95	4.382	4.382	0.000	0	259902	NR		NR

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

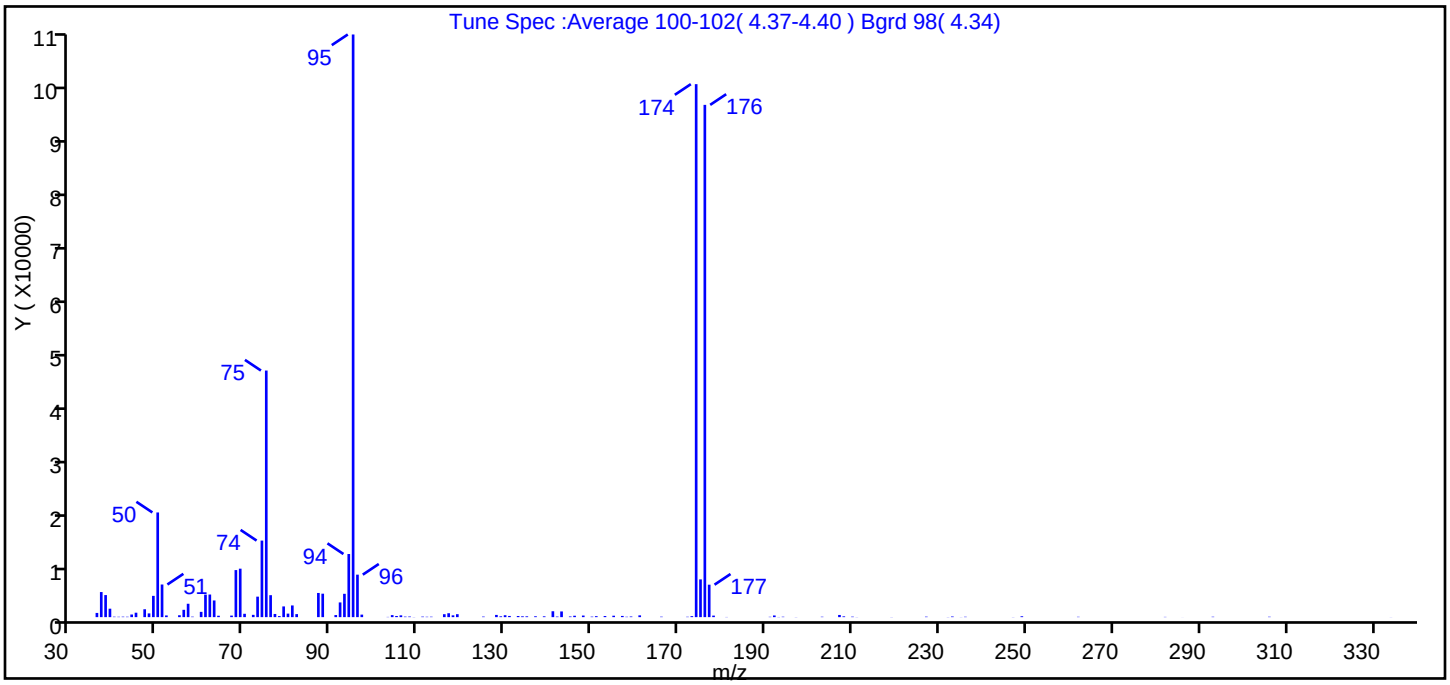
BFB_00067 Amount Added: 2.00 Units: uL
I.S. Working_00144 Amount Added: 10.00 Units: uL Run Reagent

MS Tune Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MBFB3848.D
Injection Date: 07-Mar-2017 21:37:30 Instrument ID: VMSM
Lims ID: BFB
Client ID:
Operator ID: JDH ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Tune Method: BFB Method 8260

$ 123 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.0
75	30 to 60% of m/z 95	42.3
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	91.5
175	5 to 9% of m/z 174	6.5 (7.1)
176	Greater than 95% but less than 101% of m/z 174	87.9 (96.1)
177	5 to 9% of m/z 176	5.6 (6.3)

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MBFB3848.D\5mL-8260_MSM.rslt\spectra.d
Injection Date: 07-Mar-2017 21:37:30
Spectrum: Tune Spec :Average 100-102(4.37-4.40) Bgrd 98(4.34)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 120

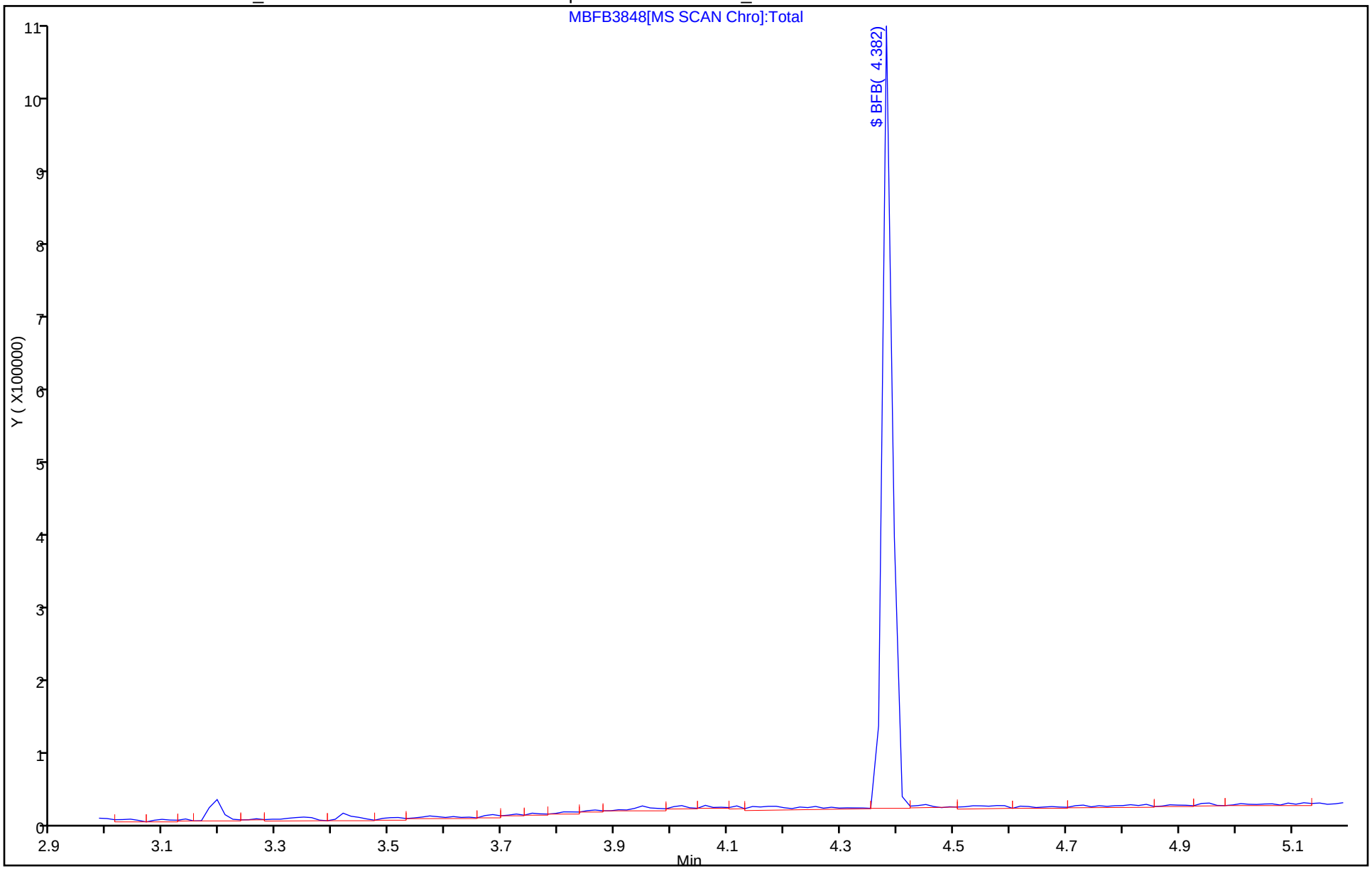
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	743	73.00	3618	117.00	690	174.00	94080
37.00	4430	74.00	13513	118.00	320	175.00	6664
38.00	3895	75.00	43528	119.00	521	176.00	90424
39.00	1492	76.00	3877	125.00	97	177.00	5728
40.00	79	77.00	561	128.00	392	178.00	271
41.00	66	78.00	185	129.00	144	181.00	31
42.00	84	79.00	1893	130.00	337	191.00	59
43.00	71	80.00	623	131.00	209	192.00	295
44.00	465	81.00	2065	133.00	199	193.00	28
45.00	783	82.00	535	134.00	147	194.00	74
47.00	1392	87.00	4268	135.00	144	197.00	22
48.00	661	88.00	4141	137.00	153	203.00	73
49.00	3756	91.00	367	139.00	143	207.00	386
50.00	18480	92.00	2597	141.00	1041	208.00	138
51.00	5761	93.00	4119	142.00	101	210.00	86
52.00	301	94.00	11144	143.00	1007	211.00	20
55.00	335	95.00	102848	145.00	118	219.00	22
56.00	1295	96.00	7500	146.00	248	227.00	85
57.00	2364	97.00	446	148.00	281	232.00	23
58.00	85	103.00	40	150.00	91	233.00	112
60.00	932	104.00	356	151.00	173	235.00	17
61.00	3979	105.00	204	153.00	197	236.00	68
62.00	3994	106.00	317	155.00	252	247.00	21
63.00	2946	107.00	92	157.00	214	249.00	152
64.00	249	108.00	108	158.00	67	262.00	62
67.00	273	109.00	23	159.00	115	282.00	45
68.00	8306	111.00	94	161.00	314	286.00	7
69.00	8554	112.00	67	166.00	80	293.00	72
70.00	592	113.00	78	172.00	67	306.00	71
72.00	405	116.00	520	173.00	176	334.00	14

Report Date: 10-Apr-2017 09:11:47 Chrom Revision: 2.2 13-Mar-2017 15:50:30

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MBFB3848.D

Injection Date:	07-Mar-2017 21:37:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MBFB4332.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 17-Apr-2017 16:59:30 ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: 160-0010251-003
Misc. Info.: BFB
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 18-Apr-2017 15:23:32 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: hannj Date: 18-Apr-2017 15:23:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 123 BFB	95	4.382	4.382	0.000	0	139171	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

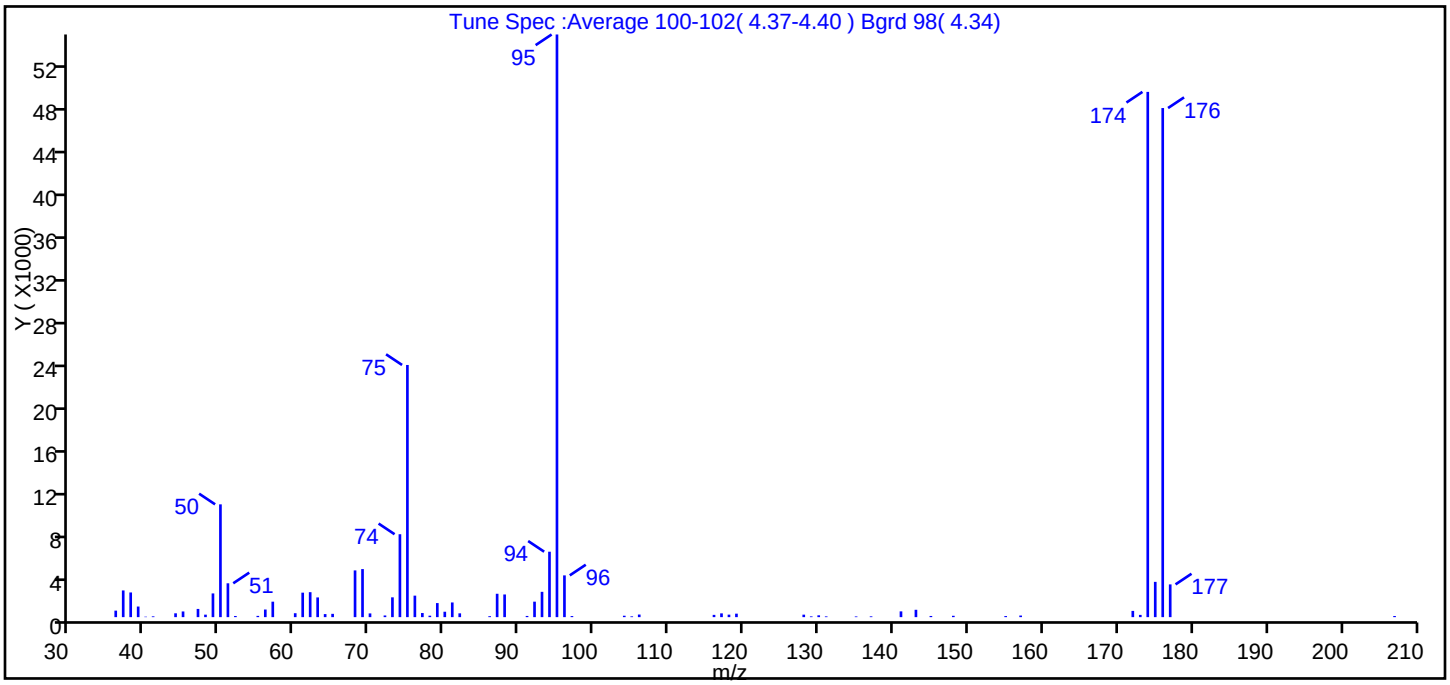
BFB_00069 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MBFB4332.D
Injection Date: 17-Apr-2017 16:59:30 Instrument ID: VMSM
Lims ID: BFB
Client ID:
Operator ID: JDH ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Tune Method: BFB Method 8260

$ 123 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.4
75	30 to 60% of m/z 95	43.3
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.4 (0.4)
174	50 to 120% of m/z 95	90.1
175	5 to 9% of m/z 174	6.1 (6.7)
176	Greater than 95% but less than 101% of m/z 174	87.4 (96.9)
177	5 to 9% of m/z 176	5.6 (6.4)

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MBFB4332.D\5mL-8260_MSM.rslt\spectra.d
Injection Date: 17-Apr-2017 16:59:30
Spectrum: Tune Spec :Average 100-102(4.37-4.40) Bgrd 98(4.34)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 73

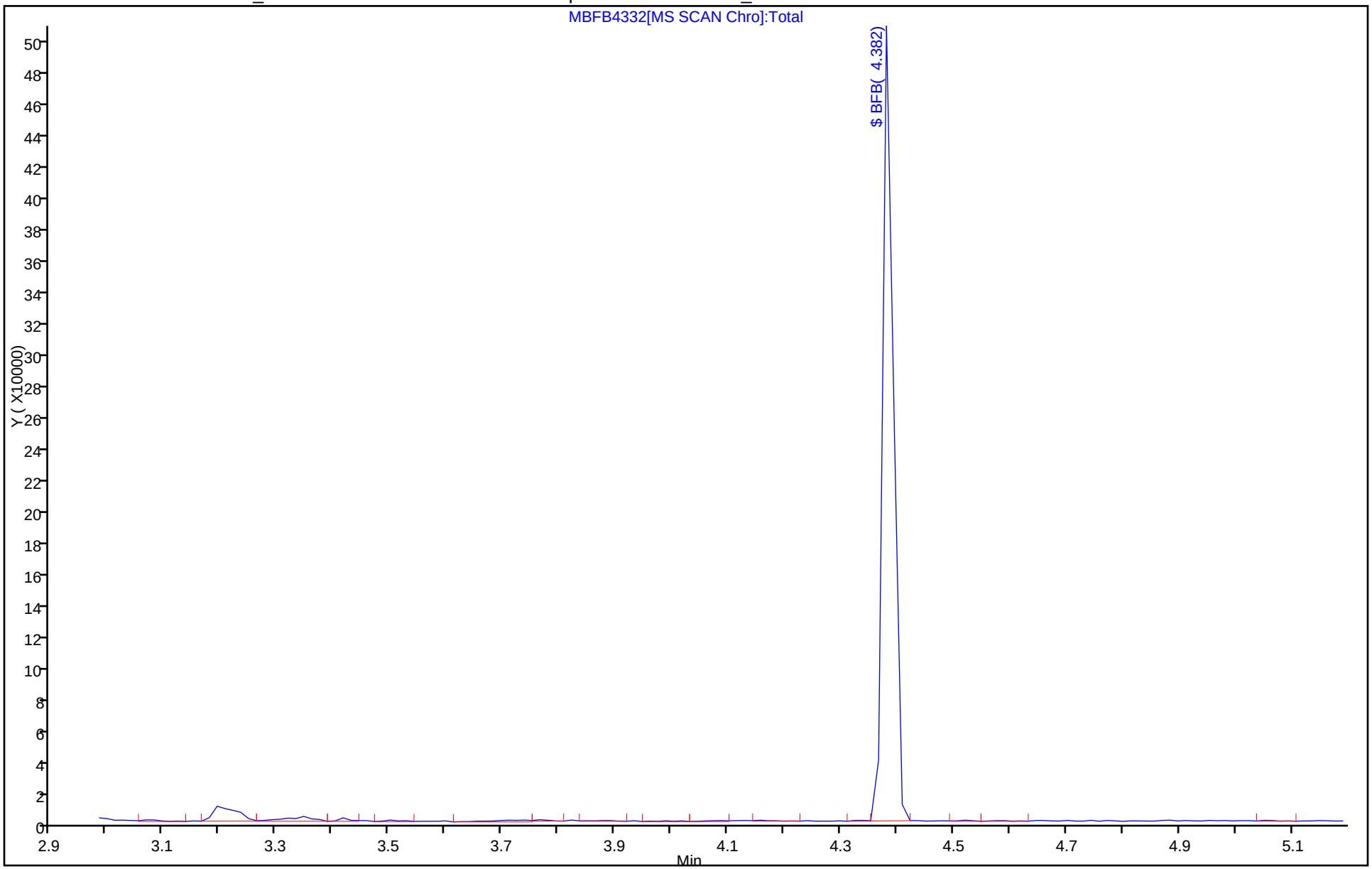
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	612	62.00	2349	87.00	2199	131.00	71
37.00	2512	63.00	1855	88.00	2133	135.00	66
38.00	2322	64.00	288	91.00	112	137.00	74
39.00	998	65.00	311	92.00	1456	141.00	543
40.00	42	68.00	4396	93.00	2381	143.00	692
41.00	74	69.00	4521	94.00	6155	145.00	111
44.00	361	70.00	351	95.00	54808	148.00	127
45.00	535	72.00	157	96.00	3928	155.00	102
47.00	772	73.00	1863	97.00	101	157.00	150
48.00	234	74.00	7799	104.00	133	172.00	587
49.00	2231	75.00	23720	105.00	73	173.00	212
50.00	10610	76.00	2022	106.00	245	174.00	49408
51.00	3184	77.00	387	116.00	214	175.00	3319
52.00	109	78.00	137	117.00	356	176.00	47888
55.00	119	79.00	1323	118.00	235	177.00	3080
56.00	717	80.00	509	119.00	328	207.00	105
57.00	1455	81.00	1381	128.00	234		
60.00	369	82.00	358	129.00	71		
61.00	2303	86.00	89	130.00	171		

Report Date: 18-Apr-2017 15:23:33 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MBFB4332.D

Injection Date:	17-Apr-2017 16:59:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 160-303915/9

Matrix: Water | Lab File ID: MBLK4338.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 19:40

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.0	U	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 160-303915/9

Matrix: Water | Lab File ID: MBLK4338.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 19:40

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		81-118
460-00-4	4-Bromofluorobenzene (Surr)	104		85-114
1868-53-7	Dibromofluoromethane (Surr)	93		80-119
2037-26-5	Toluene-d8 (Surr)	101		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MBLK4338.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Apr-2017 19:40:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-009
Misc. Info.: MB
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 17:25:34 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 17:25:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.030					ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.198					ND	
3 Chloromethane	50		3.324					ND	
118 Butadiene	39		3.463					ND	
4 Vinyl chloride	62		3.463					ND	
5 Bromomethane	94		3.966					ND	
6 Chloroethane	64		4.148					ND	
7 Trichlorofluoromethane	101		4.371					ND	
119 Dichlorofluoromethane	67		4.469					ND	
8 Ethyl ether	74		4.860					ND	
9 Ethanol	45		5.070					ND	
10 1,1-Dichloroethene	96		5.139					ND	
11 Carbon disulfide	76		5.167					ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.195					ND	
13 Iodomethane	142		5.335					ND	
14 Acrolein	56		5.600					ND	
16 3-Chloro-1-propene	39		5.768					ND	
17 Isopropyl alcohol	45		5.796					ND	
S 15 1,2-Dichloroethene, Total	96		5.816					ND	
18 Methylene Chloride	84	5.908	5.907	0.001	96	11326		1.39	
19 Acetone	43		5.977					ND	
21 trans-1,2-Dichloroethene	96		6.103					ND	
20 Methyl acetate	74		6.117					ND	
22 Hexane	86		6.201					ND	
23 Methyl tert-butyl ether	73		6.229					ND	
24 2-Methyl-2-propanol	59		6.340					ND	
25 Acetonitrile	41		6.536					ND	
26 Isopropyl ether	45		6.662					ND	
27 2-Chloro-1,3-butadiene	53		6.787					ND	
28 1,1-Dichloroethane	63		6.815					ND	
29 Acrylonitrile	53		6.871					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		7.053					ND	
31 Vinyl acetate	43		7.067					ND	
32 cis-1,2-Dichloroethene	96		7.388					ND	
33 2,2-Dichloropropane	77		7.500					ND	
34 Chlorobromomethane	128		7.583					ND	
35 Cyclohexane	84		7.597					ND	
36 Chloroform	83		7.653					ND	
37 Ethyl acetate	45		7.765					ND	
38 Carbon tetrachloride	117		7.807					ND	
39 Tetrahydrofuran	71		7.821					ND	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	94	379839	50.0		46.7
41 1,1,1-Trichloroethane	97		7.877					ND	
42 2-Butanone (MEK)	43		7.961					ND	
43 1,1-Dichloropropene	75		7.988					ND	
121 Isooctane	57		8.086					ND	
113 n-Heptane	43		8.170					ND	
45 Benzene	78		8.240					ND	
46 Propionitrile	54		8.268					ND	
47 Methacrylonitrile	41		8.282					ND	
48 Tert-amyl methyl ether	73		8.324					ND	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	349076	50.0		49.5
44 Isobutyl alcohol	42		8.393					ND	
50 1,2-Dichloroethane	62		8.421					ND	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1629341	50.0		50.0
53 Methylcyclohexane	55		8.785					ND	
52 Trichloroethene	95		8.785					ND	
122 1,4-Difluorobenzene	114		8.936					ND	
54 n-Butanol	56		9.036					ND	
55 Dibromomethane	93		9.190					ND	
120 Ethyl acrylate	55		9.245					ND	
56 1,2-Dichloropropane	63		9.273					ND	
57 Dichlorobromomethane	83		9.315					ND	
58 Methyl methacrylate	69		9.427					ND	
59 1,4-Dioxane	88		9.511					ND	
60 2-Chloroethyl vinyl ether	63		9.818					ND	
65 cis-1,3-Dichloropropene	75		9.888					ND	
$ 62 Toluene-d8 (Surr)	98	10.069	10.069	0.000	92	1620984	50.0		50.5
63 Toluene	92		10.111					ND	
64 2-Nitropropane	43		10.321					ND	
71 4-Methyl-2-pentanone (MIBK	43		10.433					ND	
66 Tetrachloroethene	164		10.460					ND	
61 trans-1,3-Dichloropropene	75		10.474					ND	
67 Ethyl methacrylate	69		10.586					ND	
68 1,1,2-Trichloroethane	83		10.628					ND	
69 Chlorodibromomethane	129		10.796					ND	
70 1,3-Dichloropropane	76		10.879					ND	
72 Ethylene Dibromide	107		11.033					ND	
116 n-Butyl acetate	43		11.061					ND	
73 2-Hexanone	43		11.187					ND	
75 1-Chlorohexane	91		11.438					ND	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	83	1304389	50.0		50.0
78 Chlorobenzene	112		11.508					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Ethylbenzene	91		11.508					ND	
79 1,1,1,2-Tetrachloroethane	131		11.550					ND	
S 74 1,3-Dichloropropene, Total	75		11.620					ND	
80 m-Xylene & p-Xylene	106		11.634					ND	
81 o-Xylene	106		12.039					ND	
82 Styrene	104		12.081					ND	
84 Bromoform	173		12.136					ND	
85 Isopropylbenzene	105		12.318					ND	
83 Pentachloroethane	167		12.372					ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.597	0.000	94	503804	50.0	52.2	
87 N-Propylbenzene	91		12.695					ND	
88 Bromobenzene	156		12.723					ND	
89 1,1,2,2-Tetrachloroethane	83		12.751					ND	
90 1,3,5-Trimethylbenzene	105		12.877					ND	
91 2-Chlorotoluene	91		12.877					ND	
92 1,2,3-Trichloropropane	110		12.905					ND	
93 trans-1,4-Dichloro-2-buten	53		12.933					ND	
94 Cyclohexanone	55		12.974					ND	
95 4-Chlorotoluene	91		13.030					ND	
96 tert-Butylbenzene	119		13.184					ND	
97 1,2,4-Trimethylbenzene	105		13.254					ND	
98 sec-Butylbenzene	105		13.352					ND	
99 4-Isopropyltoluene	119		13.477					ND	
100 1,3-Dichlorobenzene	146		13.603					ND	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	94	542748	50.0	50.0	
102 1,4-Dichlorobenzene	146	13.673	13.673	0.000	34	1898		0.1095	
117 1,2,3-Trimethylbenzene	105		13.673					ND	
103 n-Butylbenzene	134		13.896					ND	
114 Benzyl chloride	126		13.910					ND	
104 1,2-Dichlorobenzene	146		14.092					ND	
105 n-Nonyl Aldehyde	57	14.832	14.846	-0.014	60	1733		1.98	
106 1,2-Dibromo-3-Chloropropan	157		14.874					ND	
107 1,3,5-Trichlorobenzene	180		14.902					ND	
108 Hexachlorobutadiene	225		15.488					ND	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	91	2542		0.3281	
110 Naphthalene	128		15.879					ND	
111 1,2,3-Trichlorobenzene	180		16.075					ND	
S 112 Xylenes, Total	106		16.500					ND	
S 115 Trihalomethanes, Total	1		0.000					ND	
127 2-Methylpentane	1		0.000					ND	
126 C6-C12	1		0.000					ND	
128 2-Pentanone	1		0.000					ND	

Reagents:

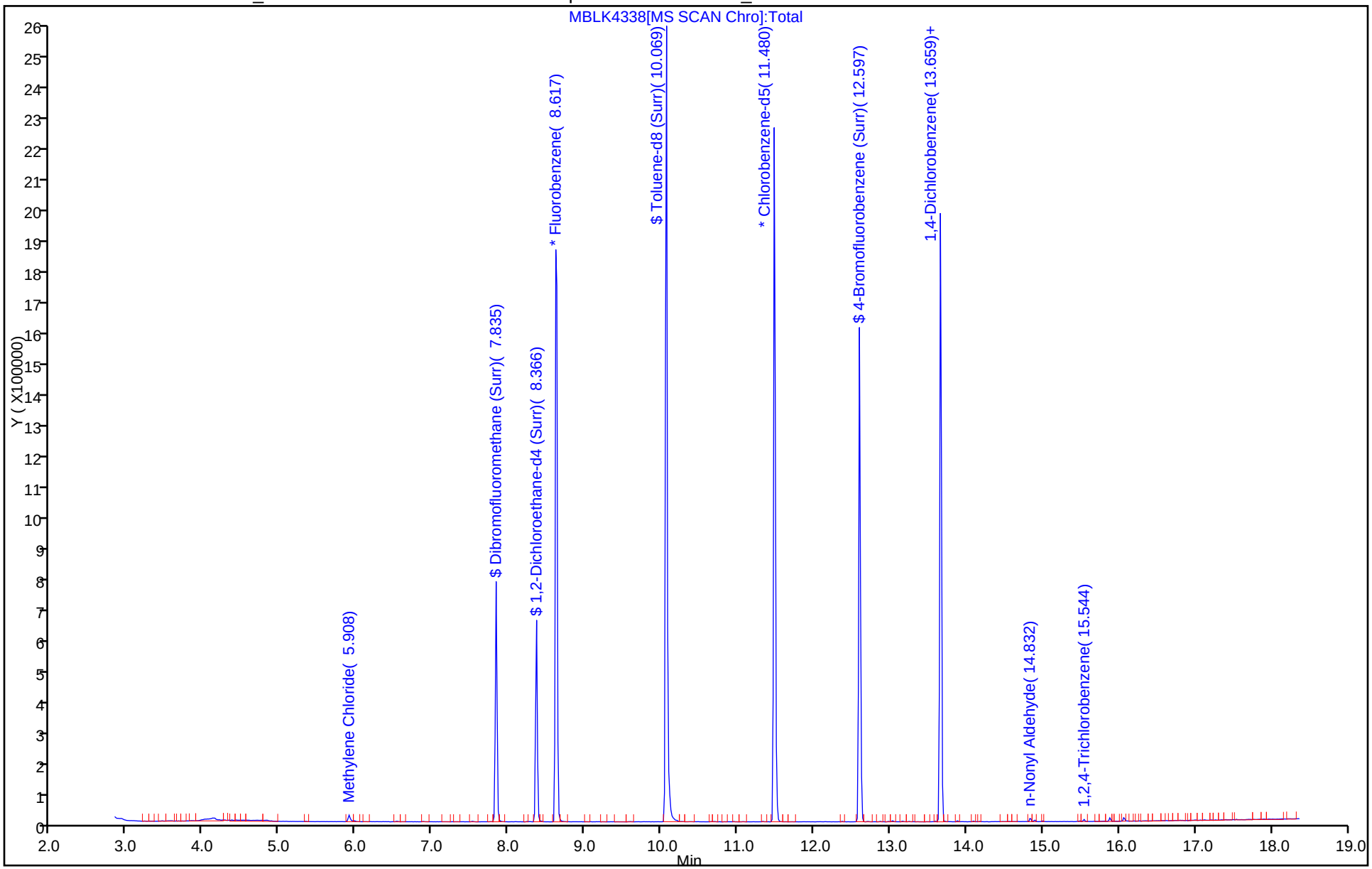
I.S. Working_00146	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 17:25:34 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MBLK4338.D

Injection Date:	17-Apr-2017 19:40:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MBLK4338.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Apr-2017 19:40:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-009
Misc. Info.: MB
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 17:25:34 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 17:25:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 40 Dibromofluoromethane (Surr)	50.0	46.7	93.38
$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	49.5	98.92
$ 62 Toluene-d8 (Surr)	50.0	50.5	101.08
$ 86 4-Bromofluorobenzene (Surr)	50.0	52.2	104.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 160-303915/5

Matrix: Water | Lab File ID: MLCS4334.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 17:59

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	50.3		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	51.3		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	50.3		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	49.4		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	50.9		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	49.2		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	48.4		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	48.7		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	50.8		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	54.1		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	49.6		10	2.0	1.2
106-93-4	1,2-Dibromoethane	49.2		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	49.8		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	48.5		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	53.2		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	48.4		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	48.5		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	47.1		20	5.0	0.39
95-49-8	2-Chlorotoluene	52.5		5.0	2.0	0.34
591-78-6	2-Hexanone	49.8		20	2.0	0.59
106-43-4	4-Chlorotoluene	52.0		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	51.3		20	2.0	0.33
67-64-1	Acetone	43.1		20	10	6.7
71-43-2	Benzene	48.2		5.0	1.0	0.25
108-86-1	Bromobenzene	49.9		5.0	2.0	0.33
74-97-5	Bromochloromethane	48.5		5.0	2.0	0.55
75-27-4	Bromodichloromethane	50.0		5.0	2.0	0.25
75-25-2	Bromoform	52.4		5.0	1.0	0.37
74-83-9	Bromomethane	70.8	Q	10	2.0	0.40
75-15-0	Carbon disulfide	49.6		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	51.5		5.0	1.0	0.36
108-90-7	Chlorobenzene	50.7		5.0	1.0	0.38
75-00-3	Chloroethane	64.4		10	1.0	0.38
67-66-3	Chloroform	50.0		5.0	1.0	0.15
74-87-3	Chloromethane	58.5		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	47.8		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 160-303915/5

Matrix: Water | Lab File ID: MLCS4334.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 17:59

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	48.7		5.0	1.0	0.34
124-48-1	Dibromochloromethane	50.3		5.0	1.0	0.33
74-95-3	Dibromomethane	49.6		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	60.1		10	2.0	0.45
100-41-4	Ethylbenzene	48.1		5.0	1.0	0.30
98-82-8	Isopropylbenzene	48.9		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	48.4		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	46.1		5.0	2.0	0.40
75-09-2	Methylene Chloride	47.7		7.5	5.0	1.7
91-20-3	Naphthalene	46.3		5.0	2.0	0.85
104-51-8	n-Butylbenzene	53.9		5.0	2.0	0.23
103-65-1	N-Propylbenzene	51.0		5.0	2.0	0.30
95-47-6	o-Xylene	47.8		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	53.5		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	51.9		5.0	2.0	0.31
100-42-5	Styrene	51.6		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	53.2		5.0	2.0	0.31
127-18-4	Tetrachloroethene	50.3		5.0	1.0	0.28
108-88-3	Toluene	48.6		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	48.0		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	50.6		5.0	1.0	0.35
79-01-6	Trichloroethene	50.5		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	56.4		5.0	2.0	0.22
75-01-4	Vinyl chloride	55.5		5.0	1.0	0.43
1330-20-7	Xylenes (total)	96.2		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		81-118
460-00-4	4-Bromofluorobenzene (Surr)	93		85-114
1868-53-7	Dibromofluoromethane (Surr)	99		80-119
2037-26-5	Toluene-d8 (Surr)	101		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MLCS4334.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Apr-2017 17:59:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-005
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 16:55:52 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 16:56:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.031	3.030	0.001	99	595640	50.0	60.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	91	307886	50.0	42.7	
3 Chloromethane	50	3.324	3.324	0.000	99	755566	50.0	58.5	
118 Butadiene	39	3.450	3.463	-0.013	95	650095	50.0	53.7	
4 Vinyl chloride	62	3.463	3.463	0.000	98	642061	50.0	55.5	
5 Bromomethane	94	3.966	3.966	0.000	91	283470	50.0	70.8	
6 Chloroethane	64	4.162	4.148	0.014	99	288650	50.0	64.4	
7 Trichlorofluoromethane	101	4.371	4.371	0.000	98	793116	50.0	56.4	
119 Dichlorofluoromethane	67	4.469	4.469	0.000	99	697851	50.0	50.8	
8 Ethyl ether	74	4.860	4.860	0.000	97	208701	50.0	45.2	
9 Ethanol	45	5.070	5.070	0.000	96	142684	2000.0	1989.0	
10 1,1-Dichloroethene	96	5.139	5.139	0.000	97	453438	50.0	49.2	
11 Carbon disulfide	76	5.167	5.167	0.000	100	1503890	50.0	49.6	
12 1,1,2-Trichloro-1,2,2-trif	151	5.195	5.195	0.000	89	499332	50.0	49.8	
13 Iodomethane	142	5.335	5.335	0.000	98	519121	50.0	61.7	
14 Acrolein	56	5.600	5.600	0.000	99	216871	250.0	218.6	
16 3-Chloro-1-propene	39	5.768	5.768	0.000	92	513772	50.0	51.5	
17 Isopropyl alcohol	45	5.810	5.796	0.014	98	172698	500.0	462.7	
18 Methylene Chloride	84	5.908	5.907	0.001	95	419756	50.0	47.7	
19 Acetone	43	5.977	5.977	0.000	100	79650	50.0	43.1	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	98	485718	50.0	48.0	
20 Methyl acetate	74	6.117	6.117	0.000	99	210154	250.0	243.2	
22 Hexane	86	6.201	6.201	0.000	95	158700	50.0	48.7	
23 Methyl tert-butyl ether	73	6.229	6.229	0.000	90	879452	50.0	46.1	
24 2-Methyl-2-propanol	59	6.341	6.340	0.001	97	267926	500.0	440.0	
25 Acetonitrile	41	6.536	6.536	0.000	99	367006	500.0	521.6	
26 Isopropyl ether	45	6.662	6.662	0.000	94	1419730	50.0	49.7	
27 2-Chloro-1,3-butadiene	53	6.787	6.787	0.000	92	793832	50.0	52.3	
28 1,1-Dichloroethane	63	6.815	6.815	0.000	96	802713	50.0	50.9	
29 Acrylonitrile	53	6.871	6.871	0.000	98	1121169	500.0	523.9	
30 Tert-butyl ethyl ether	59	7.053	7.053	0.000	97	1185116	50.0	46.4	

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	7.067	7.067	0.000	97	815249	50.0	51.9	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	78	500712	50.0	47.8	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	92	647515	50.0	48.5	
34 Chlorobromomethane	128	7.584	7.583	0.001	97	237748	50.0	48.5	
35 Cyclohexane	84	7.597	7.597	0.000	92	791528	50.0	47.7	
36 Chloroform	83	7.653	7.653	0.000	93	732657	50.0	50.0	
37 Ethyl acetate	45	7.765	7.765	0.000	99	87553	100.0	103.3	
38 Carbon tetrachloride	117	7.807	7.807	0.000	96	728294	50.0	51.5	
39 Tetrahydrofuran	71	7.821	7.821	0.000	92	59869	100.0	94.5	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	95	435799	50.0	49.7	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	98	762411	50.0	51.3	
42 2-Butanone (MEK)	43	7.961	7.961	0.000	99	123395	50.0	47.1	
43 1,1-Dichloropropene	75	7.989	7.988	0.001	92	598010	50.0	48.4	
121 Isooctane	57	8.086	8.086	0.000	100	2107008	50.0	51.0	
113 n-Heptane	43	8.170	8.170	0.000	94	997152	50.0	54.4	
45 Benzene	78	8.240	8.240	0.000	98	1722828	50.0	48.2	
46 Propionitrile	54	8.268	8.268	0.000	92	428897	500.0	517.2	
47 Methacrylonitrile	41	8.282	8.282	0.000	94	2052622	500.0	597.0	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	94	954371	50.0	47.3	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	387185	50.0	50.9	
44 Isobutyl alcohol	42	8.394	8.393	0.001	94	204539	1250.0	1222.3	
50 1,2-Dichloroethane	62	8.421	8.421	0.000	96	466323	50.0	49.8	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1757102	50.0	50.0	
53 Methylcyclohexane	55	8.785	8.785	0.000	96	816856	50.0	50.5	
52 Trichloroethene	95	8.785	8.785	0.000	74	509576	50.0	50.5	
54 n-Butanol	56	9.036	9.036	0.000	89	197147	1250.0	1153.7	
55 Dibromomethane	93	9.190	9.190	0.000	91	210508	50.0	49.6	
120 Ethyl acrylate	55	9.246	9.245	0.001	99	374215	50.0	48.4	
56 1,2-Dichloropropane	63	9.273	9.273	0.000	95	434007	50.0	48.5	
57 Dichlorobromomethane	83	9.315	9.315	0.000	98	499166	50.0	50.0	
58 Methyl methacrylate	69	9.427	9.427	0.000	96	383948	100.0	98.4	
59 1,4-Dioxane	88	9.497	9.511	-0.014	95	56197	1000.0	931.6	
60 2-Chloroethyl vinyl ether	63	9.818	9.818	0.000	94	155858	50.0	58.5	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	94	616704	50.0	48.7	
$ 62 Toluene-d8 (Surr)	98	10.070	10.069	0.001	92	1760335	50.0	50.7	
63 Toluene	92	10.111	10.111	0.000	99	1200625	50.0	48.6	
64 2-Nitropropane	43	10.321	10.321	0.000	99	151954	100.0	90.9	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	98	273299	50.0	51.3	
66 Tetrachloroethene	164	10.461	10.460	0.001	94	504564	50.0	50.3	
61 trans-1,3-Dichloropropene	75	10.475	10.474	0.001	92	537151	50.0	50.6	
67 Ethyl methacrylate	69	10.586	10.586	0.000	92	352368	50.0	48.1	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	89	259715	50.0	49.4	
69 Chlorodibromomethane	129	10.796	10.796	0.000	90	440253	50.0	50.3	
70 1,3-Dichloropropane	76	10.880	10.879	0.001	95	527405	50.0	48.4	
72 Ethylene Dibromide	107	11.033	11.033	0.000	98	320438	50.0	49.2	
116 n-Butyl acetate	43	11.061	11.061	0.000	97	471172	50.0	50.0	
73 2-Hexanone	43	11.187	11.187	0.000	96	183069	50.0	49.8	
75 1-Chlorohexane	91	11.438	11.438	0.000	97	705702	50.0	47.2	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	85	1412455	50.0	50.0	
78 Chlorobenzene	112	11.508	11.508	0.000	85	1433947	50.0	50.7	
77 Ethylbenzene	91	11.508	11.508	0.000	96	2269337	50.0	48.1	
79 1,1,1,2-Tetrachloroethane	131	11.550	11.550	0.000	94	539008	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
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	98	910508	50.0	48.4	
81 o-Xylene	106	12.039	12.039	0.000	95	841428	50.0	47.8	
82 Styrene	104	12.081	12.081	0.000	95	1318423	50.0	51.6	
84 Bromoform	173	12.137	12.136	0.000	98	249809	50.0	52.4	
85 Isopropylbenzene	105	12.318	12.318	0.000	94	2250514	50.0	48.9	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.597	0.000	94	560038	50.0	46.4	
87 N-Propylbenzene	91	12.695	12.695	0.000	97	2359134	50.0	51.0	
88 Bromobenzene	156	12.723	12.723	0.000	89	601065	50.0	49.9	
89 1,1,2,2-Tetrachloroethane	83	12.751	12.751	0.000	97	346948	50.0	50.3	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	90	1667941	50.0	53.2	
91 2-Chlorotoluene	91	12.877	12.877	0.000	95	1602006	50.0	52.5	
92 1,2,3-Trichloropropane	110	12.905	12.905	0.000	86	124584	50.0	50.8	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	86	112972	50.0	53.8	
94 Cyclohexanone	55	12.974	12.974	0.000	94	84109	500.0	482.9	
95 4-Chlorotoluene	91	13.030	13.030	0.000	94	1443111	50.0	52.0	
96 tert-Butylbenzene	119	13.184	13.184	0.000	91	1714596	50.0	53.2	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	96	1546901	50.0	54.1	
98 sec-Butylbenzene	105	13.352	13.352	0.000	94	2331672	50.0	51.9	
99 4-Isopropyltoluene	119	13.477	13.477	0.000	96	1991226	50.0	53.5	
100 1,3-Dichlorobenzene	146	13.603	13.603	0.000	97	1132506	50.0	50.8	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	94	679849	50.0	50.0	
102 1,4-Dichlorobenzene	146	13.673	13.673	0.000	88	1126703	50.0	51.9	
117 1,2,3-Trimethylbenzene	105	13.687	13.673	0.014	89	1493212	50.0	53.4	
103 n-Butylbenzene	134	13.896	13.896	0.000	96	497887	50.0	53.9	
114 Benzyl chloride	126	13.910	13.910	0.000	96	179807	50.0	49.8	
104 1,2-Dichlorobenzene	146	14.092	14.092	0.000	99	1003914	50.0	50.2	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	91	97106	50.0	40.4	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	97	80651	50.0	49.6	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	98	617791	50.0	52.3	
108 Hexachlorobutadiene	225	15.488	15.488	0.000	97	356086	50.0	50.7	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	95	482737	50.0	49.7	
110 Naphthalene	128	15.879	15.879	0.000	96	739157	50.0	46.3	
111 1,2,3-Trichlorobenzene	180	16.075	16.075	0.000	97	412909	50.0	48.7	

Reagents:

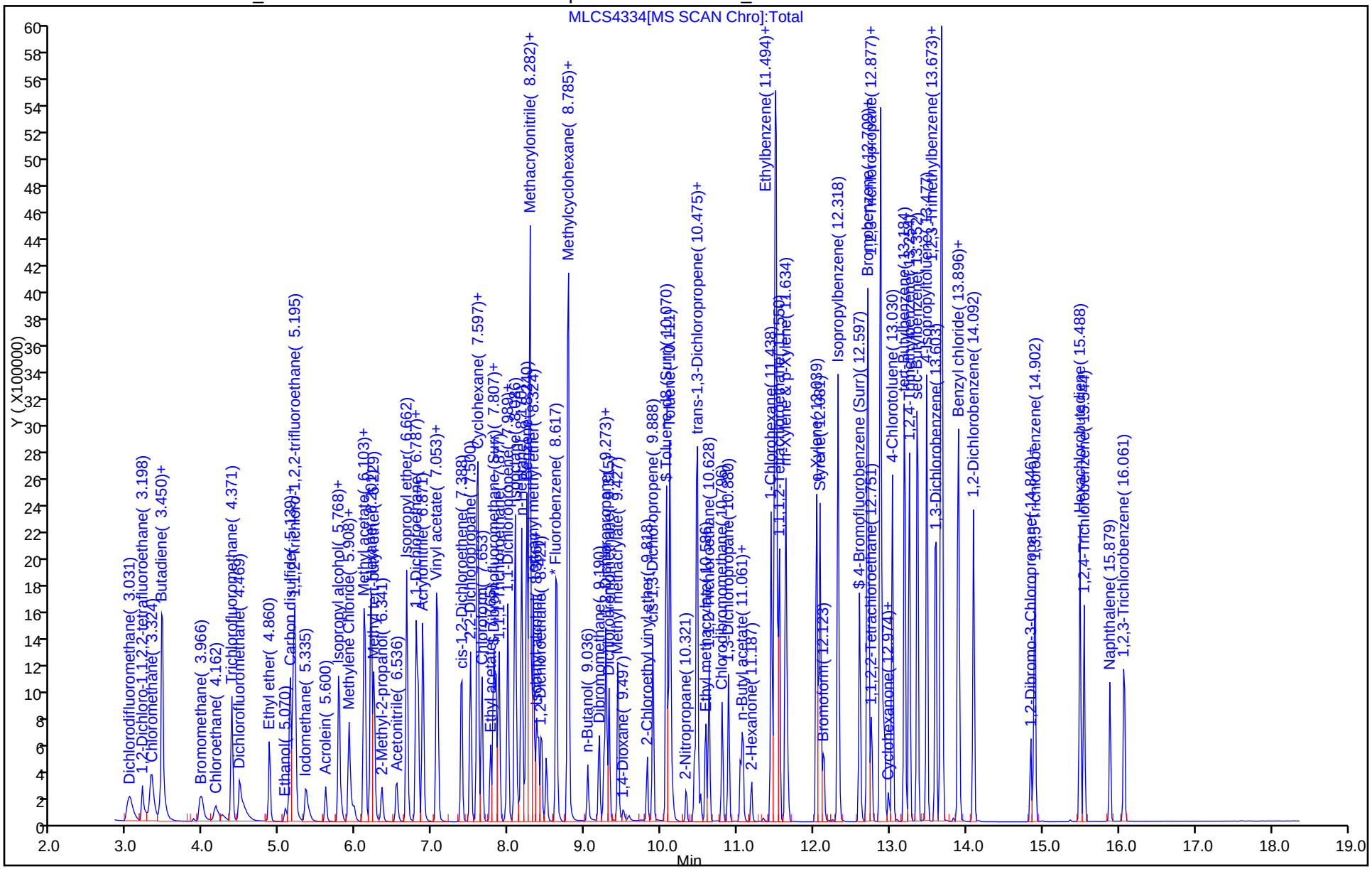
8260 NewWkMix_00215	Amount Added: 10.00	Units: uL	
I.S. Working_00146	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 16:56:20 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MLCS4334.D

Injection Date:	17-Apr-2017 17:59:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MLCS4334.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Apr-2017 17:59:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-005
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 16:55:52 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 16:56:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 40 Dibromofluoromethane (Surr)	50.0	49.7	99.35
$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	50.9	101.74
$ 62 Toluene-d8 (Surr)	50.0	50.7	101.37
$ 86 4-Bromofluorobenzene (Surr)	50.0	46.4	92.70

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 160-303915/6

Matrix: Water | Lab File ID: MLCS4335.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 18:24

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	50.5		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	51.6		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	52.2		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	50.3		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	51.7		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	50.0		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	49.5		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	53.0		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	52.8		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	55.8		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	55.1		10	2.0	1.2
106-93-4	1,2-Dibromoethane	50.3		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	51.9		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	50.0		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	54.5		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	49.3		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	49.8		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	51.4		20	5.0	0.39
95-49-8	2-Chlorotoluene	52.8		5.0	2.0	0.34
591-78-6	2-Hexanone	54.8		20	2.0	0.59
106-43-4	4-Chlorotoluene	52.7		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	55.3		20	2.0	0.33
67-64-1	Acetone	47.4		20	10	6.7
71-43-2	Benzene	49.6		5.0	1.0	0.25
108-86-1	Bromobenzene	50.0		5.0	2.0	0.33
74-97-5	Bromochloromethane	50.3		5.0	2.0	0.55
75-27-4	Bromodichloromethane	51.6		5.0	2.0	0.25
75-25-2	Bromoform	52.0		5.0	1.0	0.37
74-83-9	Bromomethane	72.4	Q	10	2.0	0.40
75-15-0	Carbon disulfide	50.4		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	51.7		5.0	1.0	0.36
108-90-7	Chlorobenzene	51.8		5.0	1.0	0.38
75-00-3	Chloroethane	65.3	M	10	1.0	0.38
67-66-3	Chloroform	51.0		5.0	1.0	0.15
74-87-3	Chloromethane	60.8		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	48.9		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 160-303915/6

Matrix: Water | Lab File ID: MLCS4335.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 18:24

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	50.2		5.0	1.0	0.34
124-48-1	Dibromochloromethane	50.9		5.0	1.0	0.33
74-95-3	Dibromomethane	50.6		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	62.0		10	2.0	0.45
100-41-4	Ethylbenzene	48.7		5.0	1.0	0.30
98-82-8	Isopropylbenzene	49.0		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	50.0		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	48.7		5.0	2.0	0.40
75-09-2	Methylene Chloride	50.1		7.5	5.0	1.7
91-20-3	Naphthalene	51.4		5.0	2.0	0.85
104-51-8	n-Butylbenzene	55.9		5.0	2.0	0.23
103-65-1	N-Propylbenzene	51.4		5.0	2.0	0.30
95-47-6	o-Xylene	48.9		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	54.8		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	52.4		5.0	2.0	0.31
100-42-5	Styrene	53.3		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	53.8		5.0	2.0	0.31
127-18-4	Tetrachloroethene	50.7		5.0	1.0	0.28
108-88-3	Toluene	49.1		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	48.8		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	50.8		5.0	1.0	0.35
79-01-6	Trichloroethene	51.6		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	55.7		5.0	2.0	0.22
75-01-4	Vinyl chloride	56.5		5.0	1.0	0.43
1330-20-7	Xylenes (total)	98.9		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		81-118
460-00-4	4-Bromofluorobenzene (Surr)	93		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	100		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MLCS4335.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 17-Apr-2017 18:24:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-006
Misc. Info.: LCSD
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 16:57:07 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 16:57:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.031	3.030	0.001	99	602096	50.0	62.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	90	309492	50.0	43.9	
3 Chloromethane	50	3.324	3.324	0.000	99	769204	50.0	60.8	
118 Butadiene	39	3.450	3.463	-0.013	96	625059	50.0	52.7	
4 Vinyl chloride	62	3.478	3.463	0.015	97	639991	50.0	56.5	
5 Bromomethane	94	3.966	3.966	0.000	91	283955	50.0	72.4	
6 Chloroethane	64	4.162	4.162	0.014	99	286690	50.0	65.3	M
7 Trichlorofluoromethane	101	4.371	4.371	0.000	98	766355	50.0	55.7	
119 Dichlorofluoromethane	67	4.469	4.469	0.000	99	696559	50.0	51.8	
8 Ethyl ether	74	4.860	4.860	0.000	96	224827	50.0	49.7	
9 Ethanol	45	5.070	5.070	0.000	96	153160	2000.0	2180.8	
10 1,1-Dichloroethene	96	5.140	5.139	0.001	97	450474	50.0	50.0	
11 Carbon disulfide	76	5.167	5.167	0.000	99	1495182	50.0	50.4	
12 1,1,2-Trichloro-1,2,2-trif	151	5.195	5.195	0.000	89	498946	50.0	50.9	
13 Iodomethane	142	5.349	5.335	0.014	97	522090	50.0	63.2	
14 Acrolein	56	5.600	5.600	0.000	100	224459	250.0	231.1	
16 3-Chloro-1-propene	39	5.768	5.768	0.000	92	506998	50.0	51.9	
17 Isopropyl alcohol	45	5.810	5.796	0.014	98	185038	500.0	506.4	
18 Methylene Chloride	84	5.908	5.907	0.001	98	432272	50.0	50.1	
19 Acetone	43	5.978	5.977	0.001	99	85831	50.0	47.4	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	98	483738	50.0	48.8	
20 Methyl acetate	74	6.117	6.117	0.000	99	217510	250.0	257.2	
22 Hexane	86	6.201	6.201	0.000	92	159516	50.0	50.0	
23 Methyl tert-butyl ether	73	6.229	6.229	0.000	90	909576	50.0	48.7	
24 2-Methyl-2-propanol	59	6.341	6.340	0.001	97	298885	500.0	501.3	
25 Acetonitrile	41	6.536	6.536	0.000	99	378087	500.0	548.9	
26 Isopropyl ether	45	6.662	6.662	0.000	94	1445942	50.0	51.7	
27 2-Chloro-1,3-butadiene	53	6.788	6.787	0.001	92	790884	50.0	53.2	
28 1,1-Dichloroethane	63	6.816	6.815	0.001	96	798341	50.0	51.7	
29 Acrylonitrile	53	6.871	6.871	0.000	99	1166775	500.0	556.9	
30 Tert-butyl ethyl ether	59	7.053	7.053	0.000	97	1223355	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
31 Vinyl acetate	43	7.067	7.067	0.000	98	831086	50.0	54.0	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	78	501055	50.0	48.9	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	92	651576	50.0	49.8	
34 Chlorobromomethane	128	7.584	7.583	0.001	97	241472	50.0	50.3	
35 Cyclohexane	84	7.598	7.597	0.001	92	785626	50.0	48.3	
36 Chloroform	83	7.653	7.653	0.000	94	730967	50.0	51.0	
37 Ethyl acetate	45	7.765	7.765	0.000	99	91691	100.0	110.6	
38 Carbon tetrachloride	117	7.807	7.807	0.000	97	716737	50.0	51.7	
39 Tetrahydrofuran	71	7.821	7.821	0.000	94	63356	100.0	102.2	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	95	430309	50.0	50.1	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	97	751279	50.0	51.6	
42 2-Butanone (MEK)	43	7.961	7.961	0.000	99	131968	50.0	51.4	
43 1,1-Dichloropropene	75	7.989	7.988	0.001	93	598753	50.0	49.5	
121 Isooctane	57	8.086	8.086	0.000	100	2117586	50.0	52.4	
113 n-Heptane	43	8.170	8.170	0.000	94	988239	50.0	55.1	
45 Benzene	78	8.240	8.240	0.000	97	1733703	50.0	49.6	
46 Propionitrile	54	8.268	8.268	0.000	92	450420	500.0	554.8	
47 Methacrylonitrile	41	8.282	8.282	0.000	94	2095275	500.0	622.5	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	95	980605	50.0	49.6	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	77	378732	50.0	50.8	
44 Isobutyl alcohol	42	8.394	8.393	0.001	94	220919	1250.0	1348.4	
50 1,2-Dichloroethane	62	8.436	8.421	0.015	96	475762	50.0	51.9	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1720219	50.0	50.0	
53 Methylcyclohexane	55	8.785	8.785	0.000	90	806992	50.0	51.0	
52 Trichloroethene	95	8.785	8.785	0.000	73	509476	50.0	51.6	
54 n-Butanol	56	9.036	9.036	0.000	88	223680	1250.0	1337.0	
55 Dibromomethane	93	9.190	9.190	0.000	91	210424	50.0	50.6	
120 Ethyl acrylate	55	9.246	9.245	0.001	99	396663	50.0	52.4	
56 1,2-Dichloropropane	63	9.274	9.273	0.001	95	438109	50.0	50.0	
57 Dichlorobromomethane	83	9.315	9.315	0.000	99	504431	50.0	51.6	
58 Methyl methacrylate	69	9.427	9.427	0.000	96	409900	100.0	107.3	
59 1,4-Dioxane	88	9.497	9.511	-0.014	95	60708	1000.0	1028.0	
60 2-Chloroethyl vinyl ether	63	9.818	9.818	0.000	94	141004	50.0	53.5	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	94	622394	50.0	50.2	
$ 62 Toluene-d8 (Surr)	98	10.070	10.069	0.001	92	1744009	50.0	50.0	
63 Toluene	92	10.112	10.111	0.001	99	1216996	50.0	49.1	
64 2-Nitropropane	43	10.321	10.321	0.000	99	155708	100.0	92.7	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	97	295827	50.0	55.3	
66 Tetrachloroethene	164	10.461	10.460	0.001	95	510312	50.0	50.7	
61 trans-1,3-Dichloropropene	75	10.475	10.474	0.001	92	541374	50.0	50.8	
67 Ethyl methacrylate	69	10.586	10.586	0.000	93	377232	50.0	51.3	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	89	265478	50.0	50.3	
69 Chlorodibromomethane	129	10.796	10.796	0.000	90	447364	50.0	50.9	
70 1,3-Dichloropropane	76	10.880	10.879	0.001	95	539908	50.0	49.3	
72 Ethylene Dibromide	107	11.033	11.033	0.000	98	328982	50.0	50.3	
116 n-Butyl acetate	43	11.061	11.061	0.000	97	510308	50.0	54.0	
73 2-Hexanone	43	11.187	11.187	0.000	96	202238	50.0	54.8	
75 1-Chlorohexane	91	11.438	11.438	0.000	97	717419	50.0	47.8	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	84	1417902	50.0	50.0	
78 Chlorobenzene	112	11.508	11.508	0.000	85	1470733	50.0	51.8	
77 Ethylbenzene	91	11.508	11.508	0.000	92	2303366	50.0	48.7	
79 1,1,1,2-Tetrachloroethane	131	11.550	11.550	0.000	93	543349	50.0	50.5	

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	11.634	11.634	0.000	97	944702	50.0	50.0	
81 o-Xylene	106	12.039	12.039	0.000	94	863018	50.0	48.9	
82 Styrene	104	12.081	12.081	0.000	93	1369406	50.0	53.3	
84 Bromoform	173	12.137	12.136	0.001	98	252629	50.0	52.0	
85 Isopropylbenzene	105	12.318	12.318	0.000	94	2296693	50.0	49.0	
$ 86 4-Bromofluorobenzene (Surr	95	12.598	12.597	0.001	94	572612	50.0	46.5	
87 N-Propylbenzene	91	12.695	12.695	0.000	98	2420392	50.0	51.4	
88 Bromobenzene	156	12.723	12.723	0.000	90	613432	50.0	50.0	
89 1,1,2,2-Tetrachloroethane	83	12.751	12.751	0.000	96	366878	50.0	52.2	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	90	1740962	50.0	54.5	
91 2-Chlorotoluene	91	12.877	12.877	0.000	94	1639353	50.0	52.8	
92 1,2,3-Trichloropropane	110	12.905	12.905	0.000	86	131747	50.0	52.8	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	95	119506	50.0	55.9	
94 Cyclohexanone	55	12.975	12.974	0.001	92	96517	500.0	544.2	
95 4-Chlorotoluene	91	13.030	13.030	0.000	94	1489050	50.0	52.7	
96 tert-Butylbenzene	119	13.184	13.184	0.000	91	1766842	50.0	53.8	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	95	1626090	50.0	55.8	
98 sec-Butylbenzene	105	13.352	13.352	0.000	94	2399493	50.0	52.4	
99 4-Isopropyltoluene	119	13.477	13.477	0.000	96	2076146	50.0	54.8	
100 1,3-Dichlorobenzene	146	13.603	13.603	0.000	98	1187408	50.0	52.3	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	94	692213	50.0	50.0	
102 1,4-Dichlorobenzene	146	13.673	13.673	0.000	87	1176097	50.0	53.2	
117 1,2,3-Trimethylbenzene	105	13.673	13.673	0.000	92	1591833	50.0	55.9	
103 n-Butylbenzene	134	13.896	13.896	0.000	96	526207	50.0	55.9	
114 Benzyl chloride	126	13.910	13.910	0.000	95	193379	50.0	52.6	
104 1,2-Dichlorobenzene	146	14.092	14.092	0.000	99	1054476	50.0	51.8	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	91	121639	50.0	48.4	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	94	91221	50.0	55.1	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	98	667147	50.0	55.4	
108 Hexachlorobutadiene	225	15.489	15.488	0.001	97	375877	50.0	52.5	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	95	516949	50.0	52.3	
110 Naphthalene	128	15.880	15.879	0.001	96	835551	50.0	51.4	
111 1,2,3-Trichlorobenzene	180	16.061	16.075	-0.014	97	456940	50.0	53.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

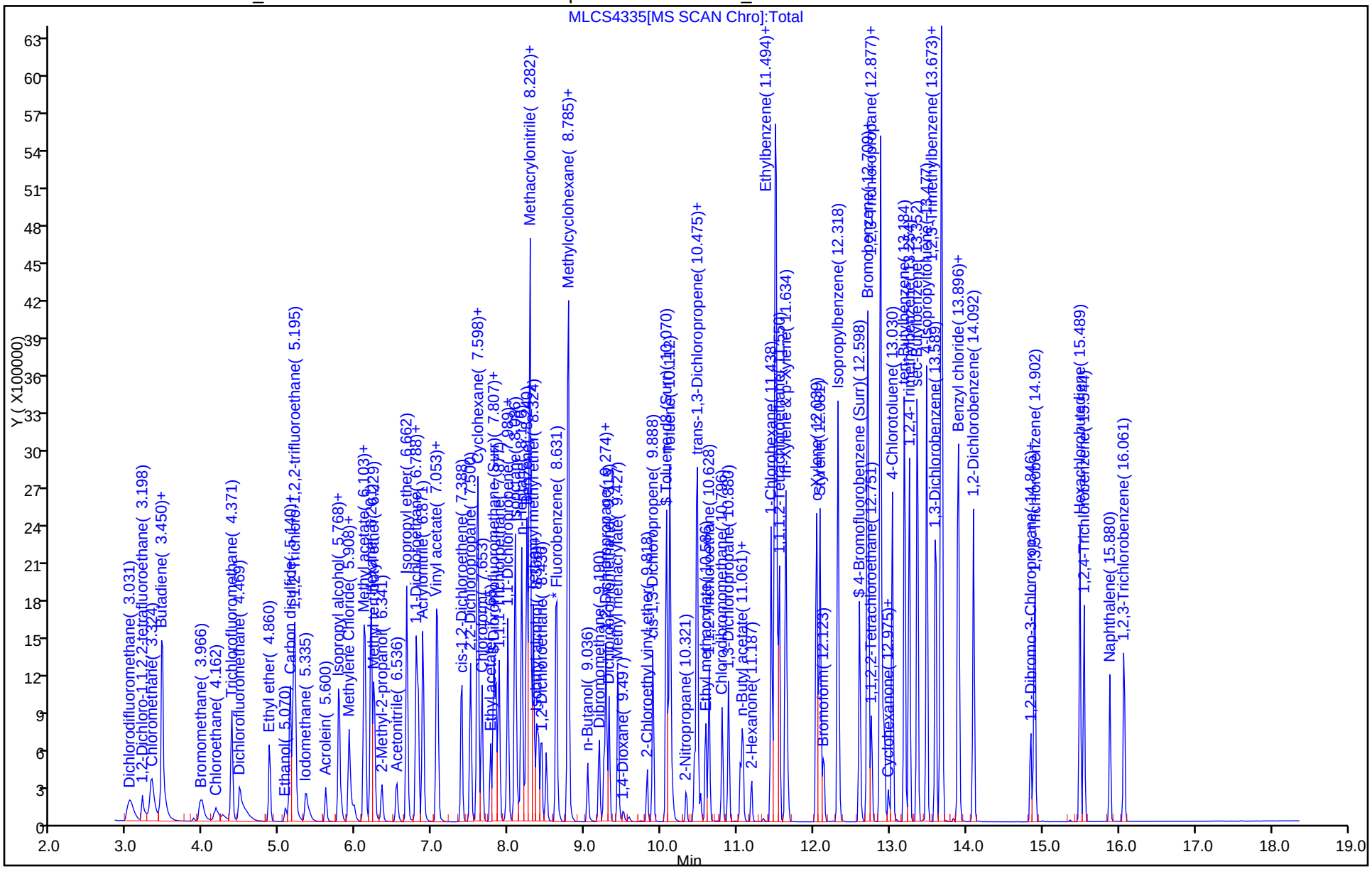
8260 NewWkMix_00215	Amount Added: 10.00	Units: uL	
I.S. Working_00146	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 16:57:08 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MLCS4335.D

Injection Date:	17-Apr-2017 18:24:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	LCSD			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MLCS4335.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 17-Apr-2017 18:24:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-006
Misc. Info.: LCSD
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 16:57:07 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 16:57:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 40 Dibromofluoromethane (Surr)	50.0	50.1	100.20
$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	50.8	101.65
$ 62 Toluene-d8 (Surr)	50.0	50.0	100.04
$ 86 4-Bromofluorobenzene (Surr)	50.0	46.5	93.09

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

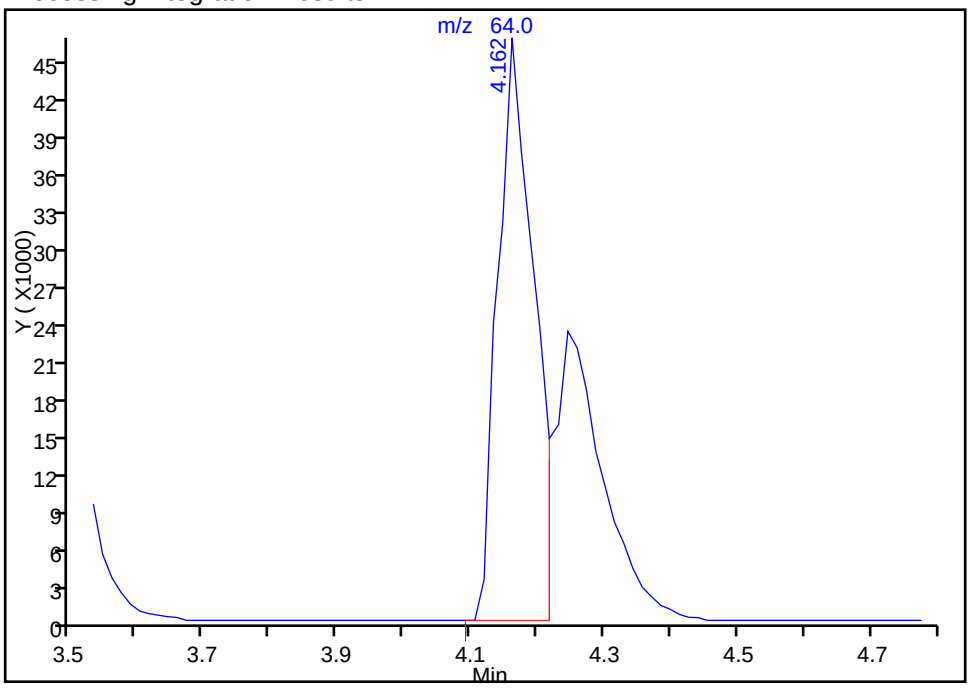
Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MLCS4335.D
Injection Date: 17-Apr-2017 18:24:30 Instrument ID: VMSM
Lims ID: LCSD
Client ID:
Operator ID: JDH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_MSM Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

6 Chloroethane, CAS: 75-00-3

Signal: 1

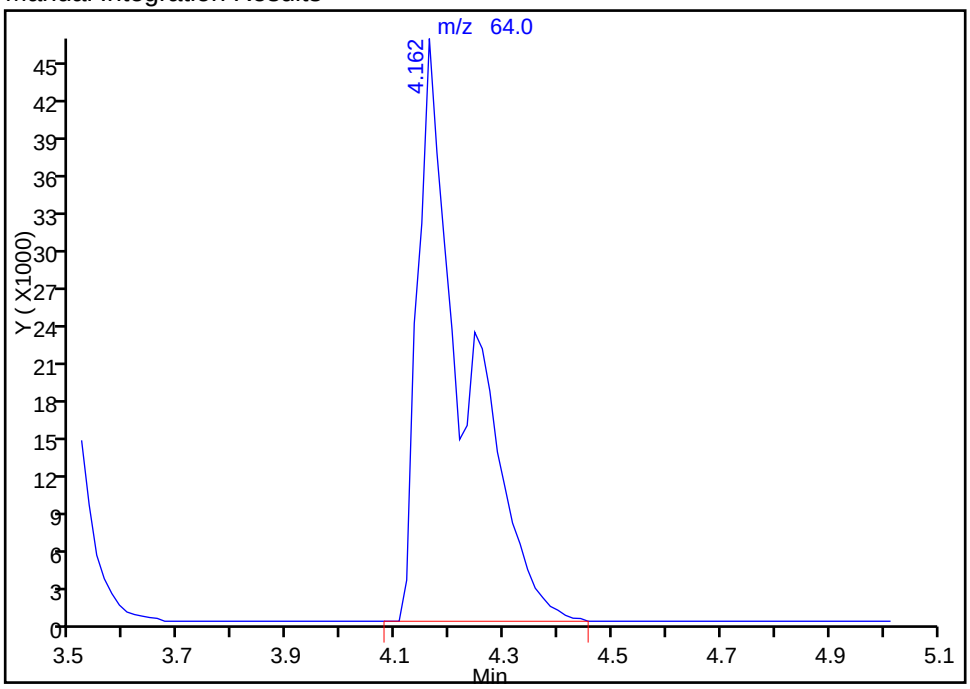
Processing Integration Results

RT: 4.16
Area: 177963
Amount: 40.476682
Amount Units: ug/l



Manual Integration Results

RT: 4.16
Area: 286690
Amount: 65.296687
Amount Units: ug/l



Reviewer: hannj, 20-Apr-2017 16:56:38
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2004MS MS | Lab Sample ID: 280-95891-1 MS

Matrix: Water | Lab File ID: MSMP4341.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 08:20

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 20:56

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	50.8		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	51.5		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	48.7		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	49.8		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	51.1		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	48.9		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	49.3		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	42.5		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	48.4		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	49.4		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	44.7		10	2.0	1.2
106-93-4	1,2-Dibromoethane	49.6		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	52.4		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	50.5		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	49.1		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	49.3		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	50.0		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	48.6		20	5.0	0.39
95-49-8	2-Chlorotoluene	50.0		5.0	2.0	0.34
591-78-6	2-Hexanone	47.4		20	2.0	0.59
106-43-4	4-Chlorotoluene	49.4		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	48.9		20	2.0	0.33
67-64-1	Acetone	49.9		20	10	6.7
71-43-2	Benzene	49.4		5.0	1.0	0.25
108-86-1	Bromobenzene	48.4		5.0	2.0	0.33
74-97-5	Bromochloromethane	50.7		5.0	2.0	0.55
75-27-4	Bromodichloromethane	51.8		5.0	2.0	0.25
75-25-2	Bromoform	49.9		5.0	1.0	0.37
74-83-9	Bromomethane	71.6	J	10	2.0	0.40
75-15-0	Carbon disulfide	49.6		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	51.5		5.0	1.0	0.36
108-90-7	Chlorobenzene	51.1		5.0	1.0	0.38
75-00-3	Chloroethane	64.5		10	1.0	0.38
67-66-3	Chloroform	51.9		5.0	1.0	0.15
74-87-3	Chloromethane	56.9		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	51.1		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2004MS MS | Lab Sample ID: 280-95891-1 MS

Matrix: Water | Lab File ID: MSMP4341.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 08:20

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 20:56

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	49.4		5.0	1.0	0.34
124-48-1	Dibromochloromethane	50.8		5.0	1.0	0.33
74-95-3	Dibromomethane	51.4		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	59.1		10	2.0	0.45
100-41-4	Ethylbenzene	47.8		5.0	1.0	0.30
98-82-8	Isopropylbenzene	46.6		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	48.6		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	48.5		5.0	2.0	0.40
75-09-2	Methylene Chloride	49.5		7.5	5.0	1.7
91-20-3	Naphthalene	39.4		5.0	2.0	0.85
104-51-8	n-Butylbenzene	48.4		5.0	2.0	0.23
103-65-1	N-Propylbenzene	48.2		5.0	2.0	0.30
95-47-6	o-Xylene	47.8		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	49.1		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	48.5		5.0	2.0	0.31
100-42-5	Styrene	52.1		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	50.0		5.0	2.0	0.31
127-18-4	Tetrachloroethene	49.5		5.0	1.0	0.28
108-88-3	Toluene	48.3		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	48.8		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	51.0		5.0	1.0	0.35
79-01-6	Trichloroethene	51.3		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	55.6		5.0	2.0	0.22
75-01-4	Vinyl chloride	54.6		5.0	1.0	0.43
1330-20-7	Xylenes (total)	96.4		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		81-118
460-00-4	4-Bromofluorobenzene (Surr)	90		85-114
1868-53-7	Dibromofluoromethane (Surr)	103		80-119
2037-26-5	Toluene-d8 (Surr)	99		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4341.D
Lims ID: 280-95891-A-1 MS
Client ID: 6MW2004MS
Sample Type: MS
Inject. Date: 17-Apr-2017 20:56:30 ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-012
Misc. Info.: 280-95891-A-1 MS
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 16:57:49 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 16:58:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.030	3.030	0.000	99	555191	50.0	59.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	91	290534	50.0	42.5	
3 Chloromethane	50	3.324	3.324	0.000	99	696197	50.0	56.9	
118 Butadiene	39	3.463	3.463	0.000	98	599009	50.0	52.2	
4 Vinyl chloride	62	3.477	3.463	0.014	98	598764	50.0	54.6	
5 Bromomethane	94	3.966	3.966	0.000	91	271966	50.0	71.6	
6 Chloroethane	64	4.162	4.148	0.014	100	274176	50.0	64.5	
7 Trichlorofluoromethane	101	4.371	4.371	0.000	98	741200	50.0	55.6	
119 Dichlorofluoromethane	67	4.469	4.469	0.000	99	663957	50.0	51.0	
8 Ethyl ether	74	4.860	4.860	0.000	97	196854	50.0	44.9	
9 Ethanol	45	5.070	5.070	0.000	96	134455	2000.0	1976.9	
10 1,1-Dichloroethene	96	5.139	5.139	0.000	98	426976	50.0	48.9	
11 Carbon disulfide	76	5.181	5.167	0.014	99	1426183	50.0	49.6	
12 1,1,2-Trichloro-1,2,2-trif	151	5.195	5.195	0.000	89	469748	50.0	49.5	
13 Iodomethane	142	5.349	5.335	0.014	98	512477	50.0	63.9	
14 Acrolein	56	5.600	5.600	0.000	99	216115	250.0	229.8	
16 3-Chloro-1-propene	39	5.768	5.768	0.000	92	506530	50.0	53.6	
17 Isopropyl alcohol	45	5.810	5.796	0.014	98	183022	500.0	517.2	
S 15 1,2-Dichloroethene, Total	96				0			99.9	
18 Methylene Chloride	84	5.908	5.907	0.001	98	412888	50.0	49.5	
19 Acetone	43	5.977	5.977	0.000	100	87426	50.0	49.9	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	98	468266	50.0	48.8	
20 Methyl acetate	74	6.117	6.117	0.000	99	203494	250.0	248.4	
22 Hexane	86	6.201	6.201	0.000	90	152457	50.0	49.4	
23 Methyl tert-butyl ether	73	6.243	6.229	0.014	92	876129	50.0	48.5	
24 2-Methyl-2-propanol	59	6.340	6.340	0.000	97	255838	500.0	443.1	
25 Acetonitrile	41	6.536	6.536	0.000	99	356240	500.0	534.1	
26 Isopropyl ether	45	6.662	6.662	0.000	95	1418951	50.0	52.3	
27 2-Chloro-1,3-butadiene	53	6.787	6.787	0.000	92	755754	50.0	52.5	
28 1,1-Dichloroethane	63	6.815	6.815	0.000	96	764616	50.0	51.1	
29 Acrylonitrile	53	6.871	6.871	0.000	98	1081261	500.0	532.9	

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	7.053	7.053	0.000	97	1195531	50.0	49.3	
31 Vinyl acetate	43	7.067	7.067	0.000	98	855852	50.0	57.5	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	78	507432	50.0	51.1	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	92	632882	50.0	50.0	
34 Chlorobromomethane	128	7.583	7.583	0.000	96	235393	50.0	50.7	
35 Cyclohexane	84	7.597	7.597	0.000	92	754667	50.0	48.0	
36 Chloroform	83	7.653	7.653	0.000	94	720800	50.0	51.9	
37 Ethyl acetate	45	7.765	7.765	0.000	99	84518	100.0	105.2	
38 Carbon tetrachloride	117	7.807	7.807	0.000	96	691388	50.0	51.5	
39 Tetrahydrofuran	71	7.821	7.821	0.000	92	57985	100.0	96.6	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	94	429245	50.0	51.6	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	98	725688	50.0	51.5	
42 2-Butanone (MEK)	43	7.961	7.961	0.000	98	120854	50.0	48.6	
43 1,1-Dichloropropene	75	7.989	7.988	0.000	93	577959	50.0	49.3	
121 Isooctane	57	8.086	8.086	0.000	100	2072749	50.0	52.9	
113 n-Heptane	43	8.170	8.170	0.000	94	959203	50.0	55.2	
45 Benzene	78	8.240	8.240	0.000	98	1673422	50.0	49.4	
46 Propionitrile	54	8.268	8.268	0.000	92	414808	500.0	527.6	
47 Methacrylonitrile	41	8.282	8.282	0.000	94	1876163	500.0	575.6	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	94	962906	50.0	50.3	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	378723	50.0	52.5	
44 Isobutyl alcohol	42	8.394	8.393	0.001	94	188702	1250.0	1189.4	
50 1,2-Dichloroethane	62	8.435	8.421	0.014	96	465237	50.0	52.4	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1665886	50.0	50.0	
53 Methylcyclohexane	55	8.785	8.785	0.000	90	773059	50.0	50.4	
52 Trichloroethene	95	8.785	8.785	0.000	73	490137	50.0	51.3	
122 1,4-Difluorobenzene	114		8.936					ND	
54 n-Butanol	56	9.036	9.036	0.000	89	179137	1250.0	1105.7	
55 Dibromomethane	93	9.190	9.190	0.000	90	206610	50.0	51.4	
120 Ethyl acrylate	55	9.245	9.245	0.000	99	360710	50.0	49.2	
56 1,2-Dichloropropane	63	9.273	9.273	0.000	95	428097	50.0	50.5	
57 Dichlorobromomethane	83	9.315	9.315	0.000	99	490840	50.0	51.8	
58 Methyl methacrylate	69	9.427	9.427	0.000	96	376805	100.0	101.9	
59 1,4-Dioxane	88	9.511	9.511	0.000	95	51012	1000.0	892.0	
60 2-Chloroethyl vinyl ether	63		9.818				ND	ND	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	94	593510	50.0	49.4	
$ 62 Toluene-d8 (Surr)	98	10.069	10.069	0.000	92	1685717	50.0	49.6	
63 Toluene	92	10.111	10.111	0.000	99	1165842	50.0	48.3	
64 2-Nitropropane	43	10.321	10.321	0.000	98	139584	100.0	85.6	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	98	255106	50.0	48.9	
66 Tetrachloroethene	164	10.461	10.460	0.001	95	485496	50.0	49.5	
61 trans-1,3-Dichloropropene	75	10.474	10.474	0.000	92	529681	50.0	51.0	
67 Ethyl methacrylate	69	10.586	10.586	0.000	92	344229	50.0	48.0	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	88	256065	50.0	49.8	
69 Chlorodibromomethane	129	10.796	10.796	0.000	90	435266	50.0	50.8	
70 1,3-Dichloropropane	76	10.880	10.879	0.001	95	525863	50.0	49.3	
72 Ethylene Dibromide	107	11.033	11.033	0.000	97	316516	50.0	49.6	
116 n-Butyl acetate	43	11.061	11.061	0.000	98	442533	50.0	48.0	
73 2-Hexanone	43	11.187	11.187	0.000	96	170551	50.0	47.4	
75 1-Chlorohexane	91	11.438	11.438	0.000	97	680589	50.0	46.5	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	83	1382195	50.0	50.0	
78 Chlorobenzene	112	11.508	11.508	0.000	85	1413691	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
77 Ethylbenzene	91	11.508	11.508	0.000	91	2203461	50.0	47.8	
79 1,1,1,2-Tetrachloroethane	131	11.550	11.550	0.000	92	532965	50.0	50.8	
S 74 1,3-Dichloropropene, Total	75				0			100.4	
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	97	893851	50.0	48.6	
81 o-Xylene	106	12.039	12.039	0.000	95	822840	50.0	47.8	
82 Styrene	104	12.081	12.081	0.000	93	1304086	50.0	52.1	
84 Bromoform	173	12.136	12.136	0.000	98	242231	50.0	49.9	
85 Isopropylbenzene	105	12.318	12.318	0.000	94	2186466	50.0	46.6	
83 Pentachloroethane	167		12.372					ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.597	12.597	0.000	94	556300	50.0	45.2	
87 N-Propylbenzene	91	12.695	12.695	0.000	97	2270224	50.0	48.2	
88 Bromobenzene	156	12.723	12.723	0.000	89	593711	50.0	48.4	
89 1,1,2,2-Tetrachloroethane	83	12.751	12.751	0.000	96	341938	50.0	48.7	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	90	1569010	50.0	49.1	
91 2-Chlorotoluene	91	12.877	12.877	0.000	96	1553244	50.0	50.0	
92 1,2,3-Trichloropropane	110	12.905	12.905	0.000	86	120709	50.0	48.4	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	85	108219	50.0	50.6	
94 Cyclohexanone	55	12.974	12.974	0.000	94	70313	500.0	396.5	
95 4-Chlorotoluene	91	13.030	13.030	0.000	94	1397116	50.0	49.4	
96 tert-Butylbenzene	119	13.184	13.184	0.000	91	1642667	50.0	50.0	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	95	1437473	50.0	49.4	
98 sec-Butylbenzene	105	13.352	13.352	0.000	94	2219342	50.0	48.5	
99 4-Isopropyltoluene	119	13.477	13.477	0.000	96	1860214	50.0	49.1	
100 1,3-Dichlorobenzene	146	13.603	13.603	0.000	98	1120956	50.0	49.4	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	94	692168	50.0	50.0	
102 1,4-Dichlorobenzene	146	13.673	13.673	0.000	89	1113890	50.0	50.4	
117 1,2,3-Trimethylbenzene	105	13.673	13.673	0.000	95	1411757	50.0	49.6	
103 n-Butylbenzene	134	13.896	13.896	0.000	97	455587	50.0	48.4	
114 Benzyl chloride	126	13.910	13.910	0.000	95	171136	50.0	46.6	
104 1,2-Dichlorobenzene	146	14.092	14.092	0.000	99	981942	50.0	48.3	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	91	95595	50.0	39.2	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	94	74122	50.0	44.7	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	98	573955	50.0	47.7	
108 Hexachlorobutadiene	225	15.488	15.488	0.000	97	339355	50.0	47.4	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	94	436199	50.0	44.2	
110 Naphthalene	128	15.879	15.879	0.000	96	640195	50.0	39.4	
111 1,2,3-Trichlorobenzene	180	16.061	16.075	-0.014	98	366843	50.0	42.5	
S 112 Xylenes, Total	106				0			96.3	
S 115 Trihalomethanes, Total	1				0			204.4	
127 2-Methylpentane	1		0.000					ND	
126 C6-C12	1		0.000					ND	
128 2-Pentanone	1		0.000					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

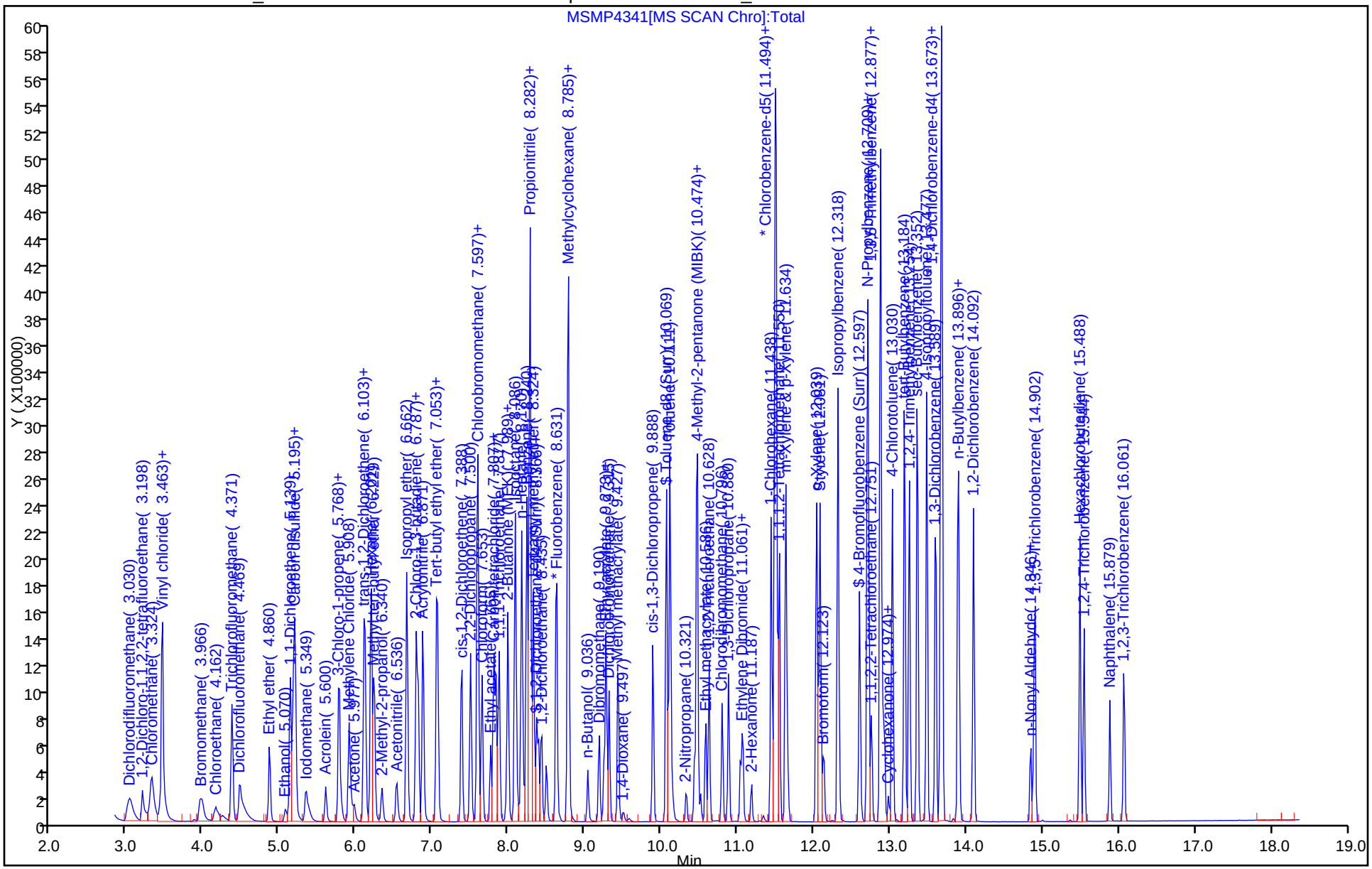
8260 NewWkMix_00215	Amount Added:	10.00	Units: uL	
I.S. Working_00146	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 16:58:49 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4341.D

Injection Date:	17-Apr-2017 20:56:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	280-95891-A-1 MS			Worklist Smp#:	12
Client ID:	6MW2004MS				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4341.D
Lims ID: 280-95891-A-1 MS
Client ID: 6MW2004MS
Sample Type: MS
Inject. Date: 17-Apr-2017 20:56:30 ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-012
Misc. Info.: 280-95891-A-1 MS
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 16:57:49 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 16:58:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 40 Dibromofluoromethane (Surr)	50.0	51.6	103.21
$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	52.5	104.96
$ 62 Toluene-d8 (Surr)	50.0	49.6	99.20
$ 86 4-Bromofluorobenzene (Surr)	50.0	45.2	90.44

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2004MSD MSD | Lab Sample ID: 280-95891-1 MSD

Matrix: Water | Lab File ID: MSMP4342.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 08:20

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 21:22

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	49.9		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	51.4		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	48.8		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	48.3		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	50.7		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	49.6		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	49.1		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	50.8		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	48.5		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	54.0		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	48.6		10	2.0	1.2
106-93-4	1,2-Dibromoethane	48.0		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	51.5		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	50.6		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	52.9		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	47.8		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	49.4		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	47.1		20	5.0	0.39
95-49-8	2-Chlorotoluene	52.1		5.0	2.0	0.34
591-78-6	2-Hexanone	46.7		20	2.0	0.59
106-43-4	4-Chlorotoluene	51.7		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	48.1		20	2.0	0.33
67-64-1	Acetone	48.7		20	10	6.7
71-43-2	Benzene	49.3		5.0	1.0	0.25
108-86-1	Bromobenzene	49.4		5.0	2.0	0.33
74-97-5	Bromochloromethane	50.3		5.0	2.0	0.55
75-27-4	Bromodichloromethane	51.4		5.0	2.0	0.25
75-25-2	Bromoform	48.7		5.0	1.0	0.37
74-83-9	Bromomethane	73.7	J	10	2.0	0.40
75-15-0	Carbon disulfide	50.1		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	51.3		5.0	1.0	0.36
108-90-7	Chlorobenzene	51.0		5.0	1.0	0.38
75-00-3	Chloroethane	65.0		10	1.0	0.38
67-66-3	Chloroform	51.6		5.0	1.0	0.15
74-87-3	Chloromethane	60.3		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	51.0		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-95891-1

SDG No.:

Client Sample ID: 6MW2004MSD MSD | Lab Sample ID: 280-95891-1 MSD

Matrix: Water | Lab File ID: MSMP4342.D

Analysis Method: 8260C DOD | Date Collected: 04/12/2017 08:20

Sample wt/vol: 5(mL) | Date Analyzed: 04/17/2017 21:22

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.: 303915 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	48.9		5.0	1.0	0.34
124-48-1	Dibromochloromethane	49.5		5.0	1.0	0.33
74-95-3	Dibromomethane	50.5		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	60.4		10	2.0	0.45
100-41-4	Ethylbenzene	47.7		5.0	1.0	0.30
98-82-8	Isopropylbenzene	48.1		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	49.1		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	48.1		5.0	2.0	0.40
75-09-2	Methylene Chloride	50.0		7.5	5.0	1.7
91-20-3	Naphthalene	47.9		5.0	2.0	0.85
104-51-8	n-Butylbenzene	53.3		5.0	2.0	0.23
103-65-1	N-Propylbenzene	50.2		5.0	2.0	0.30
95-47-6	o-Xylene	48.9		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	52.7		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	51.1		5.0	2.0	0.31
100-42-5	Styrene	52.7		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	53.1		5.0	2.0	0.31
127-18-4	Tetrachloroethene	48.9		5.0	1.0	0.28
108-88-3	Toluene	48.3		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	48.6		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	49.2		5.0	1.0	0.35
79-01-6	Trichloroethene	51.0		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	54.8		5.0	2.0	0.22
75-01-4	Vinyl chloride	57.3		5.0	1.0	0.43
1330-20-7	Xylenes (total)	98.0		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		81-118
460-00-4	4-Bromofluorobenzene (Surr)	91		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	96		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4342.D
Lims ID: 280-95891-A-1 MSD
Client ID: 6MW2004MSD
Sample Type: MSD
Inject. Date: 17-Apr-2017 21:22:30 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-013
Misc. Info.: 280-95891-A-1 MSD
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 17:27:05 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 17:29:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.031	3.030	0.001	99	557052	50.0	60.4	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.198	3.198	0.000	91	288541	50.0	43.0	
3 Chloromethane	50	3.324	3.324	0.000	99	724980	50.0	60.3	
118 Butadiene	39	3.450	3.463	-0.013	96	570566	50.0	50.7	
4 Vinyl chloride	62	3.478	3.463	0.015	98	615985	50.0	57.3	
5 Bromomethane	94	3.952	3.966	-0.014	90	274263	50.0	73.7	
6 Chloroethane	64	4.162	4.148	0.014	99	271142	50.0	65.0	
7 Trichlorofluoromethane	101	4.371	4.371	0.000	98	716178	50.0	54.8	
119 Dichlorofluoromethane	67	4.469	4.469	0.000	99	654800	50.0	51.3	
8 Ethyl ether	74	4.860	4.860	0.000	97	208793	50.0	48.6	
9 Ethanol	45	5.070	5.070	0.000	96	139622	2000.0	2092.6	
10 1,1-Dichloroethene	96	5.140	5.139	0.001	97	425070	50.0	49.6	
11 Carbon disulfide	76	5.167	5.167	0.000	100	1411747	50.0	50.1	
12 1,1,2-Trichloro-1,2,2-trif	151	5.195	5.195	0.000	89	461271	50.0	49.5	
13 Iodomethane	142	5.335	5.335	0.000	98	503951	50.0	64.1	
14 Acrolein	56	5.600	5.600	0.000	100	208632	250.0	226.1	
16 3-Chloro-1-propene	39	5.768	5.768	0.000	93	489830	50.0	52.8	
17 Isopropyl alcohol	45	5.810	5.796	0.014	98	170461	500.0	491.1	
S 15 1,2-Dichloroethene, Total	96				0			99.7	
18 Methylene Chloride	84	5.908	5.907	0.001	98	409552	50.0	50.0	
19 Acetone	43	5.978	5.977	0.001	100	83719	50.0	48.7	
21 trans-1,2-Dichloroethene	96	6.103	6.103	0.000	98	457842	50.0	48.6	
20 Methyl acetate	74	6.117	6.117	0.000	99	192953	250.0	240.1	
22 Hexane	86	6.201	6.201	0.000	91	149731	50.0	49.4	
23 Methyl tert-butyl ether	73	6.243	6.229	0.014	91	852953	50.0	48.1	
24 2-Methyl-2-propanol	59	6.341	6.340	0.001	97	254043	500.0	448.5	
25 Acetonitrile	41	6.536	6.536	0.000	99	337062	500.0	515.1	
26 Isopropyl ether	45	6.662	6.662	0.000	94	1394533	50.0	52.4	
27 2-Chloro-1,3-butadiene	53	6.788	6.787	0.001	91	743169	50.0	52.6	
28 1,1-Dichloroethane	63	6.816	6.815	0.001	96	743897	50.0	50.7	
29 Acrylonitrile	53	6.871	6.871	0.000	98	1027368	500.0	516.2	

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	7.053	7.053	0.000	97	1171418	50.0	49.3	
31 Vinyl acetate	43	7.067	7.067	0.000	98	820549	50.0	56.1	
32 cis-1,2-Dichloroethene	96	7.388	7.388	0.000	78	496851	50.0	51.0	
33 2,2-Dichloropropane	77	7.500	7.500	0.000	92	613741	50.0	49.4	
34 Chlorobromomethane	128	7.584	7.583	0.001	98	229320	50.0	50.3	
35 Cyclohexane	84	7.598	7.597	0.001	92	744376	50.0	48.2	
36 Chloroform	83	7.653	7.653	0.000	94	703196	50.0	51.6	
37 Ethyl acetate	45	7.765	7.765	0.000	99	81437	100.0	103.4	
38 Carbon tetrachloride	117	7.807	7.807	0.000	96	675562	50.0	51.3	
39 Tetrahydrofuran	71	7.821	7.821	0.000	93	53400	100.0	90.7	
$ 40 Dibromofluoromethane (Surr	113	7.835	7.835	0.000	95	410211	50.0	50.3	
41 1,1,1-Trichloroethane	97	7.877	7.877	0.000	98	711008	50.0	51.4	
42 2-Butanone (MEK)	43	7.961	7.961	0.000	98	114762	50.0	47.1	
43 1,1-Dichloropropene	75	7.989	7.988	0.001	95	564359	50.0	49.1	
121 Isooctane	57	8.086	8.086	0.000	100	2057839	50.0	53.6	
113 n-Heptane	43	8.170	8.170	0.000	94	833508	50.0	48.9	
45 Benzene	78	8.240	8.240	0.000	98	1636820	50.0	49.3	
46 Propionitrile	54	8.268	8.268	0.000	92	397934	500.0	516.0	
47 Methacrylonitrile	41	8.282	8.282	0.000	93	1876694	500.0	586.9	
48 Tert-amyl methyl ether	73	8.324	8.324	0.000	95	929033	50.0	49.5	
$ 49 1,2-Dichloroethane-d4 (Sur	65	8.366	8.366	0.000	78	358433	50.0	50.6	
44 Isobutyl alcohol	42	8.394	8.393	0.001	94	195858	1250.0	1258.3	
50 1,2-Dichloroethane	62	8.436	8.421	0.015	95	448319	50.0	51.5	
* 51 Fluorobenzene	96	8.631	8.631	0.000	99	1634278	50.0	50.0	
53 Methylcyclohexane	55	8.785	8.785	0.000	90	763714	50.0	50.8	
52 Trichloroethene	95	8.785	8.785	0.000	73	478072	50.0	51.0	
122 1,4-Difluorobenzene	114		8.936					ND	
54 n-Butanol	56	9.036	9.036	0.000	88	198267	1250.0	1247.5	
55 Dibromomethane	93	9.190	9.190	0.000	91	199414	50.0	50.5	
120 Ethyl acrylate	55	9.246	9.245	0.001	99	350412	50.0	48.7	
56 1,2-Dichloropropane	63	9.274	9.273	0.001	95	421164	50.0	50.6	
57 Dichlorobromomethane	83	9.315	9.315	0.000	98	478155	50.0	51.4	
58 Methyl methacrylate	69	9.427	9.427	0.000	96	363117	100.0	100.1	
59 1,4-Dioxane	88	9.497	9.511	-0.014	97	55198	1000.0	983.8	
60 2-Chloroethyl vinyl ether	63		9.818				ND	ND	
65 cis-1,3-Dichloropropene	75	9.888	9.888	0.000	94	576157	50.0	48.9	
$ 62 Toluene-d8 (Surr)	98	10.070	10.069	0.001	92	1633831	50.0	48.1	
63 Toluene	92	10.112	10.111	0.001	99	1165648	50.0	48.3	
64 2-Nitropropane	43	10.321	10.321	0.000	99	132474	100.0	81.5	
71 4-Methyl-2-pentanone (MIBK	43	10.433	10.433	0.000	97	250734	50.0	48.1	
66 Tetrachloroethene	164	10.461	10.460	0.001	93	480302	50.0	48.9	
61 trans-1,3-Dichloropropene	75	10.475	10.474	0.001	92	510354	50.0	49.2	
67 Ethyl methacrylate	69	10.586	10.586	0.000	92	338139	50.0	47.2	
68 1,1,2-Trichloroethane	83	10.628	10.628	0.000	89	248118	50.0	48.3	
69 Chlorodibromomethane	129	10.796	10.796	0.000	90	424019	50.0	49.5	
70 1,3-Dichloropropane	76	10.880	10.879	0.001	95	510098	50.0	47.8	
72 Ethylene Dibromide	107	11.033	11.033	0.000	98	305724	50.0	48.0	
116 n-Butyl acetate	43	11.061	11.061	0.000	97	450120	50.0	48.8	
73 2-Hexanone	43	11.187	11.187	0.000	95	168056	50.0	46.7	
75 1-Chlorohexane	91	11.438	11.438	0.000	97	680119	50.0	46.5	
* 76 Chlorobenzene-d5	117	11.480	11.480	0.000	83	1381728	50.0	50.0	
78 Chlorobenzene	112	11.508	11.508	0.000	85	1411075	50.0	51.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Ethylbenzene	91	11.508	11.508	0.000	91	2197767	50.0	47.7	
79 1,1,1,2-Tetrachloroethane	131	11.550	11.550	0.000	92	522552	50.0	49.9	
S 74 1,3-Dichloropropene, Total	75				0			98.1	
80 m-Xylene & p-Xylene	106	11.634	11.634	0.000	97	903745	50.0	49.1	
81 o-Xylene	106	12.039	12.039	0.000	94	841776	50.0	48.9	
82 Styrene	104	12.081	12.081	0.000	93	1318630	50.0	52.7	
84 Bromoform	173	12.137	12.136	0.001	98	232882	50.0	48.7	
85 Isopropylbenzene	105	12.318	12.318	0.000	94	2218704	50.0	48.1	
83 Pentachloroethane	167		12.372					ND	
$ 86 4-Bromofluorobenzene (Surr	95	12.598	12.597	0.001	95	548715	50.0	45.4	
87 N-Propylbenzene	91	12.695	12.695	0.000	97	2326095	50.0	50.2	
88 Bromobenzene	156	12.723	12.723	0.000	89	596358	50.0	49.4	
89 1,1,2,2-Tetrachloroethane	83	12.751	12.751	0.000	96	337323	50.0	48.8	
90 1,3,5-Trimethylbenzene	105	12.877	12.877	0.000	90	1660771	50.0	52.9	
91 2-Chlorotoluene	91	12.877	12.877	0.000	95	1592192	50.0	52.1	
92 1,2,3-Trichloropropane	110	12.905	12.905	0.000	82	118970	50.0	48.5	
93 trans-1,4-Dichloro-2-buten	53	12.933	12.933	0.000	94	106573	50.0	50.7	
94 Cyclohexanone	55	12.975	12.974	0.001	93	82249	500.0	471.6	
95 4-Chlorotoluene	91	13.030	13.030	0.000	94	1436835	50.0	51.7	
96 tert-Butylbenzene	119	13.184	13.184	0.000	91	1713566	50.0	53.1	
97 1,2,4-Trimethylbenzene	105	13.254	13.254	0.000	95	1545656	50.0	54.0	
98 sec-Butylbenzene	105	13.352	13.352	0.000	94	2301360	50.0	51.1	
99 4-Isopropyltoluene	119	13.477	13.477	0.000	96	1965333	50.0	52.7	
100 1,3-Dichlorobenzene	146	13.589	13.603	-0.014	98	1154743	50.0	51.7	
* 101 1,4-Dichlorobenzene-d4	152	13.659	13.659	0.000	94	680763	50.0	50.0	
102 1,4-Dichlorobenzene	146	13.673	13.673	0.000	88	1141452	50.0	52.5	
117 1,2,3-Trimethylbenzene	105	13.673	13.673	0.000	91	1524301	50.0	54.5	
103 n-Butylbenzene	134	13.896	13.896	0.000	97	493820	50.0	53.3	
114 Benzyl chloride	126	13.910	13.910	0.000	95	175437	50.0	48.6	
104 1,2-Dichlorobenzene	146	14.092	14.092	0.000	99	1014303	50.0	50.7	
105 n-Nonyl Aldehyde	57	14.846	14.846	0.000	92	138116	50.0	54.7	
106 1,2-Dibromo-3-Chloropropan	157	14.874	14.874	0.000	96	79207	50.0	48.6	
107 1,3,5-Trichlorobenzene	180	14.902	14.902	0.000	98	634329	50.0	53.6	
108 Hexachlorobutadiene	225	15.489	15.488	0.001	97	362933	50.0	51.6	
109 1,2,4-Trichlorobenzene	180	15.544	15.544	0.000	94	499347	50.0	51.4	
110 Naphthalene	128	15.880	15.879	0.001	96	766285	50.0	47.9	
111 1,2,3-Trichlorobenzene	180	16.061	16.075	-0.014	98	431174	50.0	50.8	
S 112 Xylenes, Total	106				0			98.0	
S 115 Trihalomethanes, Total	1				0			201.3	
127 2-Methylpentane	1		0.000					ND	
126 C6-C12	1		0.000					ND	
128 2-Pentanone	1		0.000					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

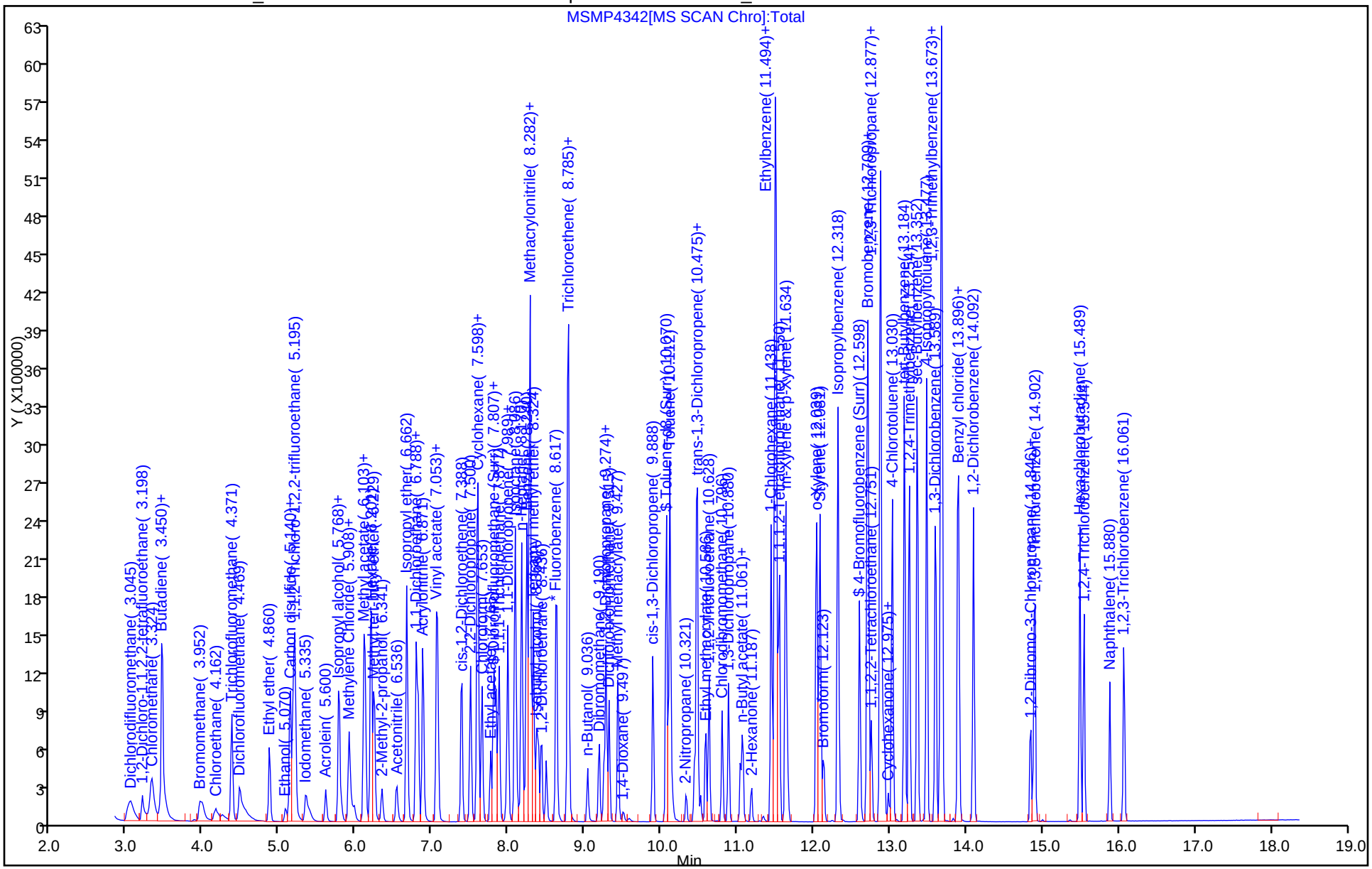
8260 NewWkMix_00215	Amount Added:	10.00	Units: uL	
I.S. Working_00146	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00073	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 20-Apr-2017 17:29:04 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4342.D

Injection Date:	17-Apr-2017 21:22:30	Instrument ID:	VMSM	Operator ID:	JDH
Lims ID:	280-95891-A-1 MSD			Worklist Smp#:	13
Client ID:	6MW2004MSD				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	5mL-8260_MSM	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\MSMP4342.D
Lims ID: 280-95891-A-1 MSD
Client ID: 6MW2004MSD
Sample Type: MSD
Inject. Date: 17-Apr-2017 21:22:30 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0010251-013
Misc. Info.: 280-95891-A-1 MSD
Operator ID: JDH Instrument ID: VMSM

Method: \\ChromNA\StLouis\ChromData\VMSM\20170417-10251.b\5mL-8260_MSM.m
Limit Group: MSV-8260_DoD
Last Update: 20-Apr-2017 17:27:05 Calib Date: 08-Mar-2017 00:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSM\20170307-9951.b\MICL3856.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: hannj Date: 20-Apr-2017 17:29:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 40 Dibromofluoromethane (Surr)	50.0	50.3	100.55
$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	50.6	101.26
$ 62 Toluene-d8 (Surr)	50.0	48.1	96.18
$ 86 4-Bromofluorobenzene (Surr)	50.0	45.4	90.71

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Instrument ID: VMSM Start Date: 03/07/2017 21:37

Analysis Batch Number: 296453 End Date: 03/08/2017 02:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-296453/2		03/07/2017 21:37	1	MBFB3848.D	RTX-VMS40 0.18(mm)
IC 160-296453/3		03/07/2017 21:59	1	MICL3849.D	RTX-VMS40 0.18(mm)
IC 160-296453/4		03/07/2017 22:25	1	MICL3850.D	RTX-VMS40 0.18(mm)
IC 160-296453/5		03/07/2017 22:50	1	MICL3851.D	RTX-VMS40 0.18(mm)
IC 160-296453/6		03/07/2017 23:15	1	MICL3852.D	RTX-VMS40 0.18(mm)
IC 160-296453/7		03/07/2017 23:41	1	MICL3853.D	RTX-VMS40 0.18(mm)
ICIS 160-296453/8		03/08/2017 00:06	1	MICL3854.D	RTX-VMS40 0.18(mm)
IC 160-296453/9		03/08/2017 00:31	1	MICL3855.D	RTX-VMS40 0.18(mm)
IC 160-296453/10		03/08/2017 00:57	1	MICL3856.D	RTX-VMS40 0.18(mm)
ICV 160-296453/13		03/08/2017 02:13	1	MICV3859.D	RTX-VMS40 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. Louis Job No.: 280-95891-1

SDG No.:

Instrument ID: VMSM Start Date: 04/17/2017 16:59

Analysis Batch Number: 303915 End Date: 04/18/2017 01:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-303915/3		04/17/2017 16:59	1	MBFB4332.D	RTX-VMS40 0.18(mm)
CCV 160-303915/4		04/17/2017 17:21	1	MCCV4333.D	RTX-VMS40 0.18(mm)
LCS 160-303915/5		04/17/2017 17:59	1	MLCS4334.D	RTX-VMS40 0.18(mm)
LCSD 160-303915/6		04/17/2017 18:24	1	MLCS4335.D	RTX-VMS40 0.18(mm)
ZZZZZ		04/17/2017 18:49	1		RTX-VMS40 0.18(mm)
MB 160-303915/9		04/17/2017 19:40	1	MBLK4338.D	RTX-VMS40 0.18(mm)
280-95891-8		04/17/2017 20:05	1	MSMP4339.D	RTX-VMS40 0.18(mm)
280-95891-1		04/17/2017 20:31	1	MSMP4340.D	RTX-VMS40 0.18(mm)
280-95891-1 MS		04/17/2017 20:56	1	MSMP4341.D	RTX-VMS40 0.18(mm)
280-95891-1 MSD		04/17/2017 21:22	1	MSMP4342.D	RTX-VMS40 0.18(mm)
280-95891-2		04/17/2017 22:37	1	MSMP4345.D	RTX-VMS40 0.18(mm)
280-95891-3		04/17/2017 23:03	1	MSMP4346.D	RTX-VMS40 0.18(mm)
280-95891-4		04/17/2017 23:28	1	MSMP4347.D	RTX-VMS40 0.18(mm)
280-95891-5		04/17/2017 23:53	1	MSMP4348.D	RTX-VMS40 0.18(mm)
280-95891-6		04/18/2017 00:19	1	MSMP4349.D	RTX-VMS40 0.18(mm)
280-95891-7		04/18/2017 00:44	1	MSMP4350.D	RTX-VMS40 0.18(mm)
CCVC 160-303915/22		04/18/2017 01:09	1	MCCV4351.D	RTX-VMS40 0.18(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-95891-1

SDG No.:

Project: Stratton ANGB, NY

Client Sample ID	Lab Sample ID
6MW2004	280-95891-1
6MW2204	280-95891-3
6MW2304	280-95891-4
6MW2404	280-95891-5
6MW2504	280-95891-6
6MW2604	280-95891-7

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2004 Lab Sample ID: 280-95891-1

Lab Name: TestAmerica Denver Job No.: 280-95891-1

SDG ID.:

Matrix: Water Date Sampled: 04/12/2017 08:20

Reporting Basis: WET Date Received: 04/13/2017 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	6.5	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2204 Lab Sample ID: 280-95891-3

Lab Name: TestAmerica Denver Job No.: 280-95891-1

SDG ID.:

Matrix: Water Date Sampled: 04/12/2017 09:40

Reporting Basis: WET Date Received: 04/13/2017 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	74	2.0	1.0	0.31	mg/L			2	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2304 Lab Sample ID: 280-95891-4

Lab Name: TestAmerica Denver Job No.: 280-95891-1

SDG ID.:

Matrix: Water Date Sampled: 04/12/2017 10:40

Reporting Basis: WET Date Received: 04/13/2017 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	2.8	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2404 Lab Sample ID: 280-95891-5

Lab Name: TestAmerica Denver Job No.: 280-95891-1

SDG ID.:

Matrix: Water Date Sampled: 04/12/2017 11:35

Reporting Basis: WET Date Received: 04/13/2017 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	6.9	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2504 Lab Sample ID: 280-95891-6

Lab Name: TestAmerica Denver Job No.: 280-95891-1

SDG ID.:

Matrix: Water Date Sampled: 04/12/2017 12:50

Reporting Basis: WET Date Received: 04/13/2017 09:30

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: 6MW2604 Lab Sample ID: 280-95891-7

Lab Name: TestAmerica Denver Job No.: 280-95891-1

SDG ID.:

Matrix: Water Date Sampled: 04/12/2017 13:40

Reporting Basis: WET Date Received: 04/13/2017 09:30

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: TestAmerica Denver Job No.: 280-95891-1

SDG No.:

Analyst: CCJ Batch Start Date: 04/20/2017

Reporting Units: mg/L Analytical Batch No.: 370399

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	15:06	Total Organic Carbon - Quad	21.2	20.0	106	90-110		TOC ICV Std_00030
2	ICB	15:21	Total Organic Carbon - Quad	0.50				U	
28	CCV	22:25	Total Organic Carbon - Quad	25.5	25.0	102	90-110		TOC LCS Std_00035
29	CCB	22:40	Total Organic Carbon - Quad	0.50				U	
40	CCV	01:29	Total Organic Carbon - Quad	26.0	25.0	104	90-110		TOC LCS Std_00035
41	CCB	01:44	Total Organic Carbon - Quad	0.50				U	
52	CCV	04:43	Total Organic Carbon - Quad	25.9	25.0	104	90-110		TOC LCS Std_00035
53	CCB	05:00	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: TestAmerica Denver Job No.: 280-95891-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 370399 Date: 04/21/2017 00:43							
9060A	MB 280-370399/37	Total Organic Carbon - Quad	0.50	U	mg/L	1.0	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-95891-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 370399 Date: 04/21/2017 02:36											
9060A	280-95891-4	Total Organic Carbon - Quad	2.8		mg/L						
9060A	280-95891-4 MS	Total Organic Carbon - Quad	28.4		mg/L	25.0	102	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: TestAmerica Denver Job No.: 280-95891-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 370399 Date: 04/21/2017 02:51											
9060A	280-95891-4 MSD	Total Organic Carbon - Quad	28.9		mg/L	25.0	104	88-112	1	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: TestAmerica Denver Job No.: 280-95891-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 370399 Date: 04/21/2017 00:13											
						LCS Source: TOC LCS Std_00035					
9060A	LCS 280-370399/35	Total Organic Carbon - Quad	25.6		mg/L	25.0	102	88-112	1	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: TestAmerica Denver Job No.: 280-95891-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 370399	Date: 04/21/2017 00:28										
						LCSD Source: TOC LCS Std_00035					
9060A	LCSD 280-370399/36	Total Organic Carbon - Quad	25.8		mg/L	25.0	103	88-112	1	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: TestAmerica Denver Job Number: 280-95891-1

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: TestAmerica Denver Job Number: 280-95891-1

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: TestAmerica Denver Job No.: 280-95891-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 04/20/2017 15:06 End Date: 04/21/2017 09:34

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
ICV 280-370399/1	1		15:06	X																									
ICB 280-370399/2	1		15:21	X																									
ZZZZZZ			15:36																										
ZZZZZZ			15:50																										
ZZZZZZ			16:05																										
ZZZZZZ			16:20																										
ZZZZZZ			16:34																										
ZZZZZZ			16:49																										
ZZZZZZ			17:08																										
ZZZZZZ			17:23																										
ZZZZZZ			17:39																										
ZZZZZZ			17:54																										
ZZZZZZ			18:09																										
ZZZZZZ			18:28																										
ZZZZZZ			18:45																										
CCV 280-370399/16			18:59																										
CCB 280-370399/17			19:14																										
ZZZZZZ			19:31																										
ZZZZZZ			19:48																										
ZZZZZZ			20:11																										
ZZZZZZ			20:29																										
ZZZZZZ			20:45																										
ZZZZZZ			21:02																										
ZZZZZZ			21:19																										
ZZZZZZ			21:37																										
ZZZZZZ			21:54																										
ZZZZZZ			22:11																										
CCV 280-370399/28	1		22:25	X																									
CCB 280-370399/29	1		22:40	X																									
ZZZZZZ			22:55																										
ZZZZZZ			23:09																										
ZZZZZZ			23:24																										
ZZZZZZ			23:41																										
ZZZZZZ			23:58																										
LCS 280-370399/35	1	T	00:13	X																									
LCSD 280-370399/36	1	T	00:28	X																									
MB 280-370399/37	1	T	00:43	X																									
ZZZZZZ			00:58																										
280-95891-1	1	T	01:15	X																									
CCV 280-370399/40	1		01:29	X																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-95891-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 04/20/2017 15:06 End Date: 04/21/2017 09:34

Lab Sample Id	D/F	Type	Time	Analytes
				TOCQ
CCB 280-370399/41	1		01:44	X
280-95891-3	2	T	02:01	X
280-95891-4	1	T	02:17	X
280-95891-4 MS	1	T	02:36	X
280-95891-4 MSD	1	T	02:51	X
280-95891-5	1	T	03:09	X
280-95891-6	1	T	03:26	X
280-95891-7	1	T	03:41	X
ZZZZZZ			03:57	
ZZZZZZ			04:12	
ZZZZZZ			04:29	
CCV 280-370399/52	1		04:43	X
CCB 280-370399/53	1		05:00	X
ZZZZZZ			05:15	
ZZZZZZ			05:32	
ZZZZZZ			05:46	
ZZZZZZ			06:01	
ZZZZZZ			06:16	
ZZZZZZ			06:30	
ZZZZZZ			06:47	
ZZZZZZ			07:04	
ZZZZZZ			07:20	
ZZZZZZ			07:41	
CCV 280-370399/64			07:58	
CCB 280-370399/65			08:12	
ZZZZZZ			08:29	
ZZZZZZ			08:48	
ZZZZZZ			09:02	
CCV 280-370399/69			09:19	
CCB 280-370399/70			09:34	

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-95891-1

SDG No.:

Batch Number: 370399 Batch Start Date: 04/20/17 15:06 Batch Analyst: Jewell, Connie C

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TOC ICV Std 00030	TOC LCS Std 00035	AnalysisComment		
ICV 280-370399/1		9060A		50 mL	1 mL				
CCV 280-370399/28		9060A		200 mL		5 mL			
LCS 280-370399/35		9060A		200 mL		5 mL			
LCSD 280-370399/36		9060A		200 mL		5 mL			
CCV 280-370399/40		9060A		200 mL		5 mL			
280-95891-A-3	6MW2204	9060A	T				instrument dilution		
280-95891-A-4 MS	6MW2304	9060A	T	50 mL		1.25 mL			
280-95891-A-4 MSD	6MW2304	9060A	T	50 mL		1.25 mL			
CCV 280-370399/52		9060A		200 mL		5 mL			

Batch Notes	
Sulfuric Acid ID	sulfuricacid_00177, 0.2%H2SO4_00266
Pipette ID	wc5000cj, 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.

CS
pH 4/20/17

	Analysis	Sample Name	Manual Diluti	~~Result~~	Notes	Date / Time	Vial
1*	NPOC	ICV	1.000	"			1
2*	NPOC	ICB	1.000	"			2
3*	NPOC	LCS	1.000	"			3
4*	NPOC	LCSD	1.000	"			4
5*	NPOC	MB	1.000	"			5
6*	NPOC	TIC	1.000	"			6
7*	NPOC	280-95751-h-1	1.000	"			7
8*	NPOC	280-95805-b-1	5x ~~1.000~~	6	high chloride		8
9*	NPOC	280-95827-c-1	1.000	"			9
10*	NPOC	280-95827-e-2	1.000	"			10
11*	NPOC	MS 280-95827-e-2	1.000	"			11
12*	NPOC	MSD 280-95827-e-2	1.000	"			12
13*	NPOC	280-95827-b-3	1.000	"			13
14*	NPOC	280-95867-f-1	10x 1.000	"	fizzy		14
15*	NPOC	MS 280-95867-f-1	10x 1.000	"			15
16*	NPOC	CCV	1.000	"			16
17*	NPOC	CCB	1.000	"			17
18*	NPOC	MSD 280-95867-f-1	10x ~~1.000~~	"	fizzy		18
19*	NPOC	280-95867-a-2	20x ~~1.000~~	"	wbent fizzy		19
20*	NPOC	280-95925-a-1	1.000	"			20
21*	NPOC	280-95925-a-2	10x ~~1.000~~	"	fizzy		21
22*	NPOC	280-95925-a-3	10x ~~1.000~~	"	fizzy		22
23*	NPOC	280-95808-a-3	1.000	"			23
24*	NPOC	280-95808-a-4	1.000	"			24
25*	NPOC	280-95808-a-5	1.000	"			25
26*	NPOC	280-95808-a-6	1.000	"			26
27*	NPOC	280-95865-a-4	1.000	"			27
28*	NPOC	CCV	1.000	"			28
29*	NPOC	CCB	1.000	"			29
30*	NPOC	280-95865-a-3	1.000	"			30
31*	NPOC	320-27382-i-4	1.000	"			31
32*	NPOC	320-27382-i-3	1.000	"			32
33*	NPOC	320-27382-i-2	1.000	"			33
34*	NPOC	320-27382-i-1	10x ~~1.000~~	"	fizzy		34
35*	NPOC	LCS	1.000	"			35
36*	NPOC	LCSD	1.000	"			36
37*	NPOC	MB	1.000	"			37
38*	NPOC	TIC	1.000	"			38
39*	NPOC	280-95891-a-1	1.000	"			39
40*	NPOC	CCV	1.000	"			40
41*	NPOC	CCB	1.000	"			41
42*	NPOC	280-95891-a-3	1.000	"			42
43*	NPOC	280-95891-a-4	1.000	"			43
44*	NPOC	MS 280-95891-a-4	1.000	"			44
45*	NPOC	MSD 280-95891-a-4	1.000	"			45
46*	NPOC	280-95891-a-5	1.000	"			46
47*	NPOC	280-95891-a-6	1.000	"			47
48*	NPOC	280-95891-a-7	1.000	"			48
49*	NPOC	280-95922-a-1	1.000	"			49
50*	NPOC	280-95922-a-2	1.000	"			50
51*	NPOC	280-95922-a-3	1.000	"			51

pH OT 4/20/17

	Analysis	Sample Name	Manual Diluti	~~Result~~	Notes	Date / Time	Vial
52*	NPOC	CCV	1.000	"			52
53*	NPOC	CCB	1.000	"			53
54*	NPOC	280-95922-a-4	1.000	"			54
55*	NPOC	280-95922-a-5	1.000	"			55
56*	NPOC	280-95922-a-6	1.000	"			56
57*	NPOC	MS 280-95922-a-6	1.000	"			57
58*	NPOC	MSD 280-95922-a-6	1.000	"			58
59*	NPOC	280-95922-a-7	1.000	"			59
60*	NPOC	280-95922-a-8	1.000	"			60
61*	NPOC	280-95922-a-10	1.000	"			61
62*	NPOC	280-95922-a-11	1.000	"			62
63*	NPOC	280-95922-a-12	1.000	"			63
64*	NPOC	CCV	1.000	"			64
65*	NPOC	CCB	1.000	"			65
66*	NPOC	280-95922-a-13	1.000	"			66
67*	NPOC	280-95922-a-14	1.000	"			67
68*	NPOC	280-95922-a-15	1.000	"			68
69*	NPOC	CCV	1.000	"			69
70*	NPOC	CCB	1.000	"			70

	Analysis	Sample Name	Manual Diluti	Result	Notes	Date / Time	Vial
1	NPOC	ICV	1.000	NPOC:21.25mg/L		4/20/2017 3:12:52	1
2	NPOC	ICB	1.000	NPOC:0.05359mg/		4/20/2017 3:27:31	2
3	NPOC	LCS	1.000	NPOC:25.41mg/L		4/20/2017 3:42:10	3
4	NPOC	LCSD	1.000	NPOC:25.39mg/L		4/20/2017 3:57:07	4
5	NPOC	MB	1.000	NPOC:0.04301mg/		4/20/2017 4:11:46	5
6	NPOC	TIC	1.000	NPOC:0.06619mg/		4/20/2017 4:26:26	6
7	NPOC	280-95751-b-1	1.000	NPOC:30.10mg/L		4/20/2017 4:41:06	7
8	NPOC	280-95805-b-1	5.000	NPOC:272.1mg/L		4/20/2017 4:56:02	8
9	NPOC	280-95827-c-1	1.000	NPOC:2.184mg/L		4/20/2017 5:14:47	9
10	NPOC	280-95827-e-2	1.000	NPOC:2.184mg/L		4/20/2017 5:31:24	10
11	NPOC	MS 280-95827-e-2	1.000	NPOC:28.29mg/L		4/20/2017 5:46:02	11
12	NPOC	MSD 280-95827-e-2	1.000	NPOC:28.21mg/L		4/20/2017 6:00:45	12
13	NPOC	280-95827-b-3	1.000	NPOC:2.154mg/L		4/20/2017 6:17:27	13
14	NPOC	280-95867-f-1	10.00	NPOC:964.6mg/L		4/20/2017 6:34:08	14
15	NPOC	MS 280-95867-f-1	10.00	NPOC:1236mg/L		4/20/2017 6:51:10	15
16	NPOC	CCV	1.000	NPOC:25.70mg/L		4/20/2017 7:06:08	16
17	NPOC	CCB	1.000	NPOC:0.07311mg/		4/20/2017 7:20:48	17
18	NPOC	MSD 280-95867-f-1	10.00	NPOC:1224mg/L		4/20/2017 7:37:35	18
19	NPOC	280-95867-a-2	20.00	NPOC:948.6mg/L		4/20/2017 7:54:22	19
20	NPOC	280-95925-a-1	1.000	NPOC:220.0mg/L		4/20/2017 8:18:37	20
21	NPOC	280-95925-a-2	10.00	NPOC:543.3mg/L		4/20/2017 8:35:19	21
22	NPOC	280-95925-a-3	10.00	NPOC:543.8mg/L		4/20/2017 8:52:00	22
23	NPOC	280-95808-a-3	1.000	NPOC:0.3139mg/L		4/20/2017 9:10:44	23
24	NPOC	280-95808-a-4	1.000	NPOC:0.3184mg/L		4/20/2017 9:27:20	24
25	NPOC	280-95808-a-5	1.000	NPOC:0.3154mg/L		4/20/2017 9:46:04	25
26	NPOC	280-95808-a-6	1.000	NPOC:0.1991mg/L		4/20/2017 10:00:37	26
27	NPOC	280-95865-a-4	1.000	NPOC:0.2081mg/L		4/20/2017 10:17:19	27
28	NPOC	CCV	1.000	NPOC:25.55mg/L		4/20/2017 10:31:58	28
29	NPOC	CCB	1.000	NPOC:0.05876mg/		4/20/2017 10:46:37	29
30	NPOC	280-95865-a-3	1.000	NPOC:0.1659mg/L		4/20/2017 11:01:16	30
31	NPOC	320-27382-i-4	1.000	NPOC:0.2385mg/L		4/20/2017 11:15:56	31
32	NPOC	320-27382-i-3	1.000	NPOC:6.305mg/L		4/20/2017 11:30:56	32
33	NPOC	320-27382-i-2	1.000	NPOC:6.719mg/L		4/20/2017 11:47:39	33
34	NPOC	320-27382-i-1	10.00	NPOC:352.6mg/L		4/21/2017 12:04:41	34
35	NPOC	LCS	1.000	NPOC:25.62mg/L		4/21/2017 12:19:52	35
36	NPOC	LCSD	1.000	NPOC:25.80mg/L		4/21/2017 12:35:08	36
37	NPOC	MB	1.000	NPOC:0.08792mg/		4/21/2017 12:49:47	37
38	NPOC	TIC	1.000	NPOC:0.07859mg/		4/21/2017 1:04:28	38
39	NPOC	280-95891-a-1	1.000	NPOC:6.496mg/L		4/21/2017 1:21:10	39
40	NPOC	CCV	1.000	NPOC:26.02mg/L		4/21/2017 1:35:54	40
41	NPOC	CCB	1.000	NPOC:0.1381mg/L		4/21/2017 1:50:34	41
42	NPOC	280-95891-a-3	1.000	NPOC:74.46mg/L		4/21/2017 2:07:17	42
43	NPOC	280-95891-a-4	1.000	NPOC:2.830mg/L		4/21/2017 2:26:02	43
44	NPOC	MS 280-95891-a-4	1.000	NPOC:28.44mg/L		4/21/2017 2:42:38	44
45	NPOC	MSD 280-95891-a-4	1.000	NPOC:28.87mg/L		4/21/2017 2:57:17	45
46	NPOC	280-95891-a-5	1.000	NPOC:6.923mg/L		4/21/2017 3:16:03	46
47	NPOC	280-95891-a-6	1.000	NPOC:4.631mg/L		4/21/2017 3:32:39	47
48	NPOC	280-95891-a-7	1.000	NPOC:3.520mg/L		4/21/2017 3:49:21	48
49	NPOC	280-95922-a-1	1.000	NPOC:1.365mg/L		4/21/2017 4:04:00	49
50	NPOC	280-95922-a-2	1.000	NPOC:11.92mg/L		4/21/2017 4:18:40	50
51	NPOC	280-95922-a-3	1.000	NPOC:4.058mg/L		4/21/2017 4:35:23	51
52	NPOC	CCV	1.000	NPOC:25.88mg/L		4/21/2017 4:50:02	52
53	NPOC	CCB	1.000	NPOC:0.08315mg/		4/21/2017 5:06:45	53

	Analysis	Sample Name	Manual Diluti	Result	Notes	Date / Time	Vial
54	NPOC	280-95922-a-4	1.000	NPOC:6.809mg/L		4/21/2017 5:21:24	54
55	NPOC	280-95922-a-5	1.000	NPOC:5.748mg/L		4/21/2017 5:38:08	55
56	NPOC	280-95922-a-6	1.000	NPOC:2.053mg/L		4/21/2017 5:52:48	56
57	NPOC	MS 280-95922-a-6	1.000	NPOC:28.06mg/L		4/21/2017 6:07:29	57
58	NPOC	MSD 280-95922-a-6	1.000	NPOC:28.33mg/L		4/21/2017 6:22:10	58
59	NPOC	280-95922-a-7	1.000	NPOC:1.074mg/L		4/21/2017 6:36:51	59
60	NPOC	280-95922-a-8	1.000	NPOC:1.474mg/L		4/21/2017 6:53:35	60
61	NPOC	280-95922-a-10	1.000	NPOC:4.087mg/L		4/21/2017 7:12:21	61
62	NPOC	280-95922-a-11	1.000	NPOC:1.838mg/L		4/21/2017 7:31:01	62
63	NPOC	280-95922-a-12	1.000	NPOC:4.243mg/L		4/21/2017 7:49:41	63
64	NPOC	CCV	1.000	NPOC:26.36mg/L		4/21/2017 8:04:15	64
65	NPOC	CCB	1.000	NPOC:0.09688mg/		4/21/2017 8:18:56	65
66	NPOC	280-95922-a-13	1.000	NPOC:3.775mg/L		4/21/2017 8:37:43	66
67	NPOC	280-95922-a-14	1.000	NPOC:7.951mg/L		4/21/2017 8:54:20	67
68	NPOC	280-95922-a-15	1.000	NPOC:6.551mg/L		4/21/2017 9:11:03	68
69	NPOC	CCV	1.000	NPOC:26.20mg/L		4/21/2017 9:25:43	69
70	NPOC	CCB	1.000	NPOC:0.1243mg/L		4/21/2017 9:40:24	70

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	

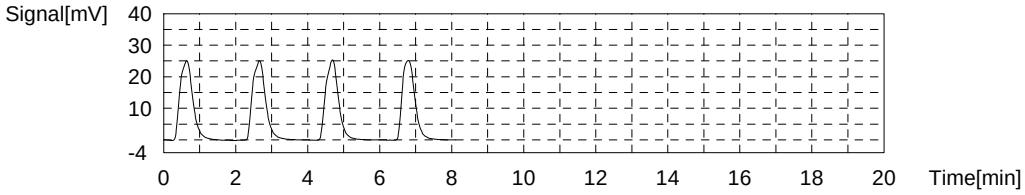
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:21.25mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	63.78	21.39mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:06:20 PM
2	64.02	21.47mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:08:30 PM
3	63.25	21.21mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:10:48 PM
4	62.36	20.91mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:12:52 PM

Mean Area 63.35
Mean Conc. 21.25mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

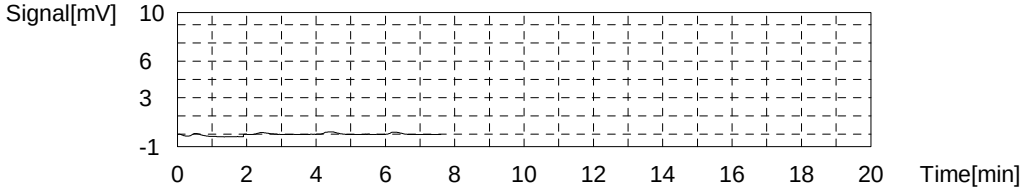
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05359mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3794	0.05278mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:21:22 PM
2	0.2932	0.02377mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:23:25 PM
3	0.4751	0.08499mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:25:28 PM
4	0.3795	0.05282mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:27:31 PM

Mean Area 0.3818
Mean Conc. 0.05359mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

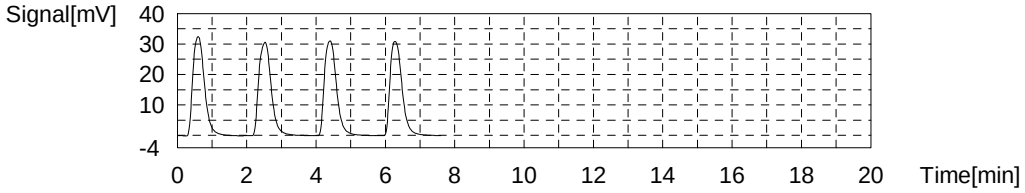
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.41mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.58	25.70mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:36:01 PM
2	76.30	25.60mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:38:04 PM
3	75.55	25.35mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:40:07 PM
4	74.50	25.00mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:42:10 PM

Mean Area 75.73
Mean Conc. 25.41mg/L



Sample

Sample Name: LCSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

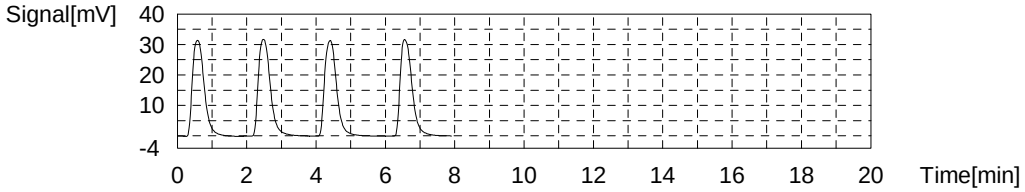
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.39mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.09	25.20mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:50:40 PM
2	76.61	25.71mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:52:43 PM
3	75.88	25.46mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:55:04 PM
4	75.03	25.18mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 3:57:07 PM

Mean Area 75.65
Mean Conc. 25.39mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

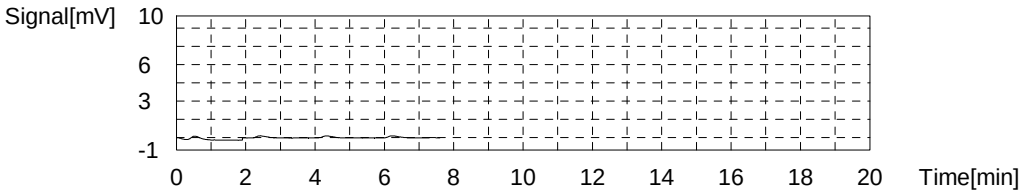
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04301mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4726	0.08415mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:05:37 PM
2	0.3173	0.03188mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:07:40 PM
3	0.3039	0.02737mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:09:43 PM
4	0.3077	0.02865mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:11:46 PM

Mean Area 0.3504
Mean Conc. 0.04301mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

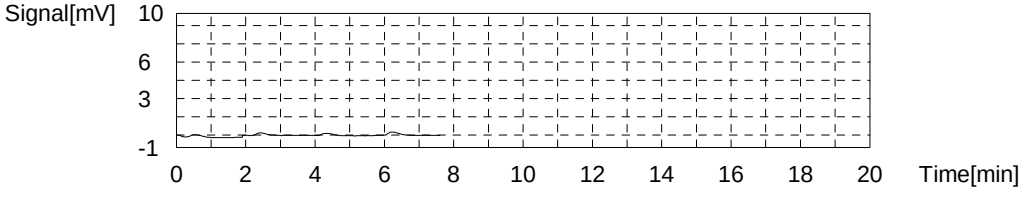
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06619mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4018	0.06032mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:20:17 PM
2	0.3632	0.04733mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:22:20 PM
3	0.3600	0.04625mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:24:23 PM
4	0.5519	0.1108mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:26:26 PM

Mean Area 0.4192
Mean Conc. 0.06619mg/L



Sample

Sample Name: 280-95751-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

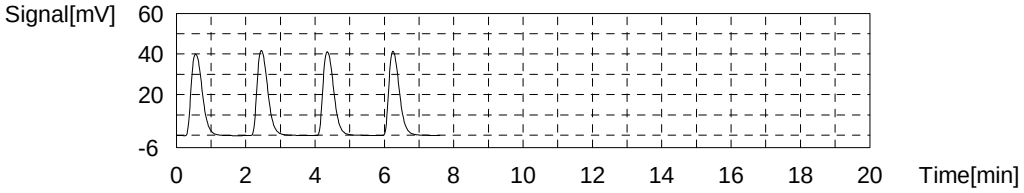
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.10mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.49	30.38mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:34:57 PM
2	90.37	30.34mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:37:00 PM
3	89.68	30.11mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:39:03 PM
4	88.05	29.56mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:41:06 PM

Mean Area 89.65
Mean Conc. 30.10mg/L



Sample

Sample Name: 280-95805-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

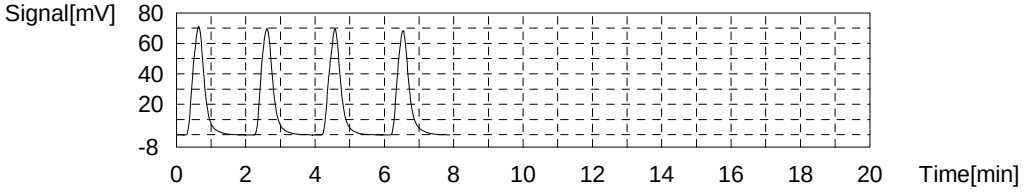
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	5.000	NPOC:272.1mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	164.6	276.6mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:49:41 PM
2	162.9	273.8mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:51:46 PM
3	161.7	271.7mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:53:54 PM
4	158.4	266.2mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 4:56:02 PM

Mean Area 161.9
Mean Conc. 272.1mg/L



Sample

Sample Name: 280-95827-c-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

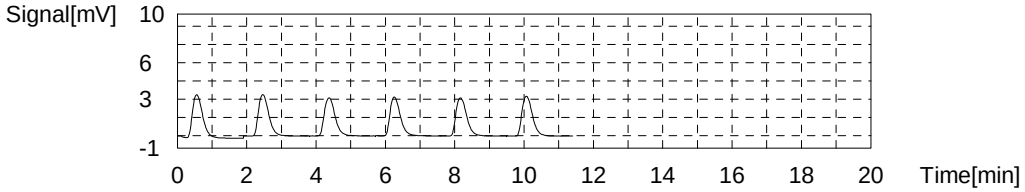
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.184mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.187	2.344mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:04:33 PM
2	7.105	2.316mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:06:36 PM
3	6.684	2.175mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:08:39 PM
4	6.560	2.133mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:10:42 PM
5	6.718	2.186mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:12:44 PM
6	6.887	2.243mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:14:47 PM

Mean Area 6.712
Mean Conc. 2.184mg/L



Sample

Sample Name: 280-95827-e-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

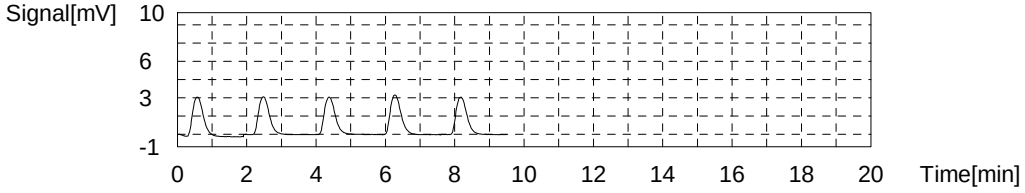
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.184mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.894	2.245mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:23:12 PM
2	6.669	2.170mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:25:15 PM
3	6.658	2.166mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:27:18 PM
4	7.066	2.303mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:29:21 PM
5	6.631	2.157mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:31:24 PM

Mean Area 6.713
Mean Conc. 2.184mg/L



Sample

Sample Name: MS 280-95827-e-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

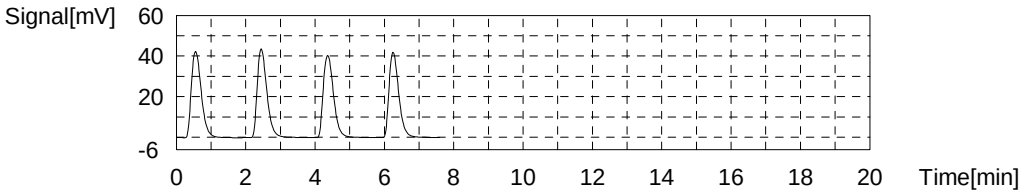
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.29mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	85.81	28.81mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:39:53 PM
2	84.82	28.47mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:41:56 PM
3	83.83	28.14mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:43:59 PM
4	82.61	27.73mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:46:02 PM

Mean Area 84.27
Mean Conc. 28.29mg/L



Sample

Sample Name: MSD 280-95827-e-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

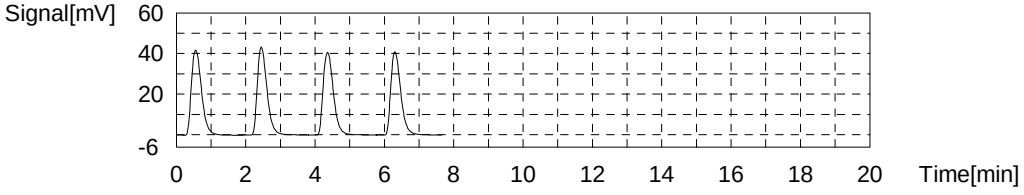
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.21mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	86.08	28.90mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:54:33 PM
2	84.11	28.23mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:56:36 PM
3	83.86	28.15mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 5:58:42 PM
4	82.15	27.57mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:00:45 PM

Mean Area 84.05
Mean Conc. 28.21mg/L



Sample

Sample Name: 280-95827-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

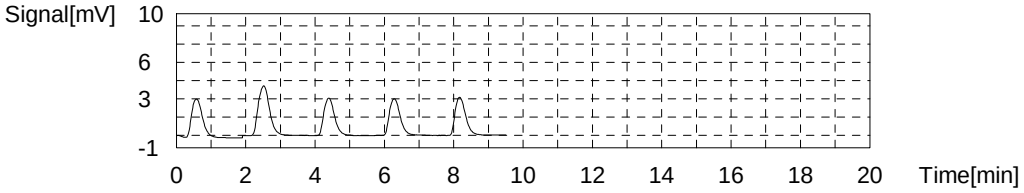
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.154mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.767	2.203mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:09:16 PM
2	9.236	3.034mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:11:19 PM
3	6.609	2.149mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:13:22 PM
4	6.492	2.110mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:15:25 PM
5	6.628	2.156mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:17:27 PM

Mean Area 6.624
Mean Conc. 2.154mg/L



Sample

Sample Name: 280-95867-f-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

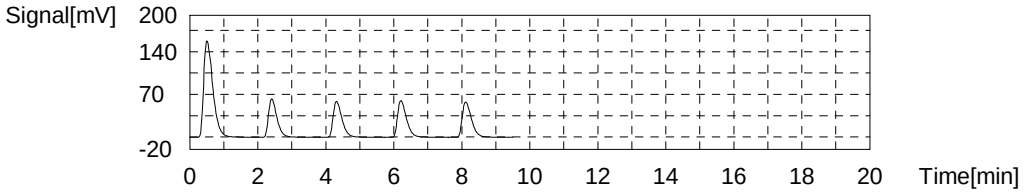
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	10.00	NPOC:964.6mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	299.5	1007mg/L	50uL	1	R	TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:25:57 PM
2	109.5	969.1mg/L	19uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:28:00 PM
3	107.2	948.7mg/L	19uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:30:03 PM
4	110.0	973.5mg/L	19uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:32:06 PM
5	109.3	967.3mg/L	19uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:34:08 PM

Mean Area 109.0
Mean Conc. 964.6mg/L



Sample

Sample Name: MS 280-95867-f-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

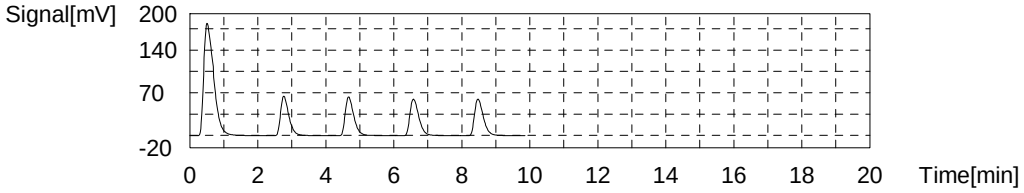
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	10.00	NPOC:1236mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	380.3	1279mg/L	50uL	1	R	TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:42:59 PM
2	110.1	1234mg/L	15uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:45:02 PM
3	111.8	1253mg/L	15uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:47:05 PM
4	110.3	1237mg/L	15uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:49:07 PM
5	108.9	1221mg/L	15uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:51:10 PM

Mean Area 110.3
Mean Conc. 1236mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

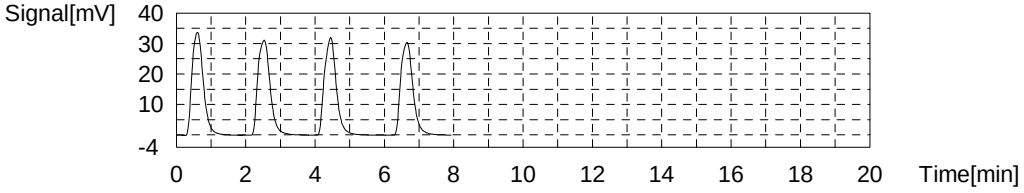
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.70mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	77.67	26.07mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 6:59:40 PM
2	77.26	25.93mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:01:43 PM
3	76.88	25.80mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:04:05 PM
4	74.54	25.01mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:06:08 PM

Mean Area 76.59
Mean Conc. 25.70mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

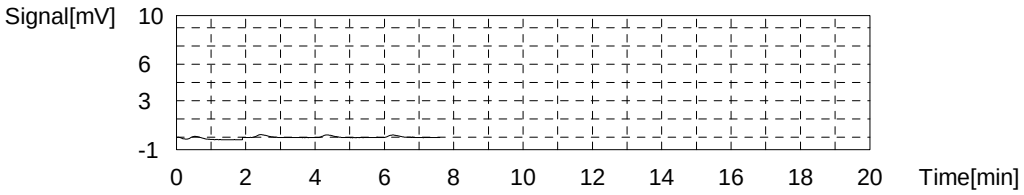
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07311mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4529	0.07752mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:14:39 PM
2	0.4680	0.08260mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:16:42 PM
3	0.4405	0.07335mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:18:45 PM
4	0.3978	0.05898mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:20:48 PM

Mean Area 0.4398
Mean Conc. 0.07311mg/L



Sample

Sample Name: MSD 280-95867-f-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

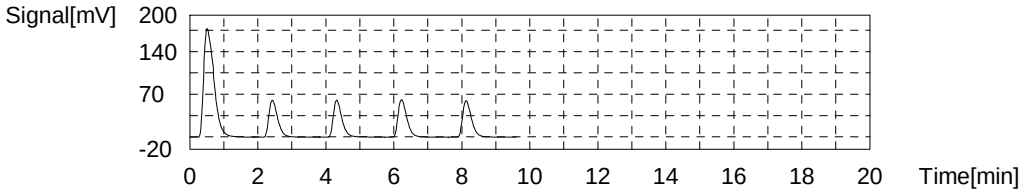
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	10.00	NPOC:1224mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	378.1	1272mg/L	50uL	1	R	TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:29:18 PM
2	109.2	1224mg/L	15uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:31:21 PM
3	106.9	1199mg/L	15uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:33:24 PM
4	111.7	1252mg/L	15uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:35:26 PM
5	108.9	1221mg/L	15uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:37:35 PM

Mean Area 109.2
Mean Conc. 1224mg/L



Sample

Sample Name: 280-95867-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

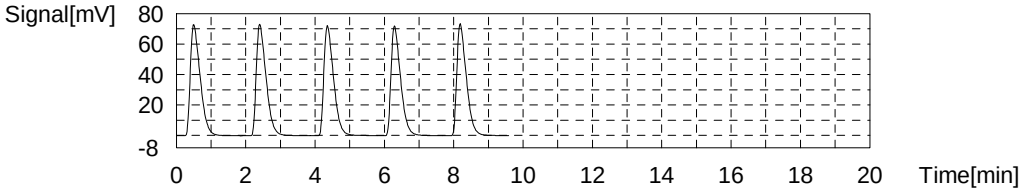
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	20.00	NPOC:948.6mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	145.4	977.2mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:46:05 PM
2	144.0	967.8mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:48:11 PM
3	141.1	948.3mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:50:16 PM
4	139.0	934.1mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:52:19 PM
5	140.5	944.2mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 7:54:22 PM

Mean Area 141.2
Mean Conc. 948.6mg/L



Sample

Sample Name: 280-95925-a-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

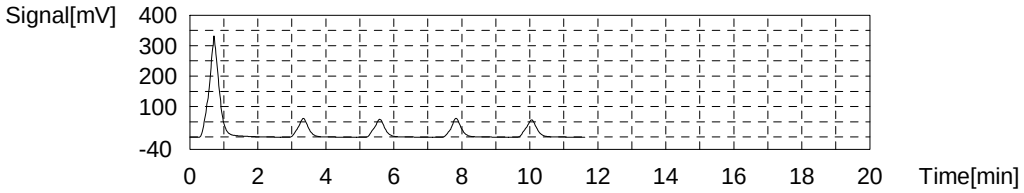
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:220.0mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	678.1	228.1mg/L	50uL	1	R	TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:03:36 PM
2	133.7	224.6mg/L	50uL	5		TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:11:27 PM
3	130.7	219.6mg/L	50uL	5		TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:13:50 PM
4	130.4	219.1mg/L	50uL	5		TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:16:13 PM
5	129.0	216.7mg/L	50uL	5		TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:18:37 PM

Mean Area 131.0
Mean Conc. 220.0mg/L



Sample

Sample Name: 280-95925-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

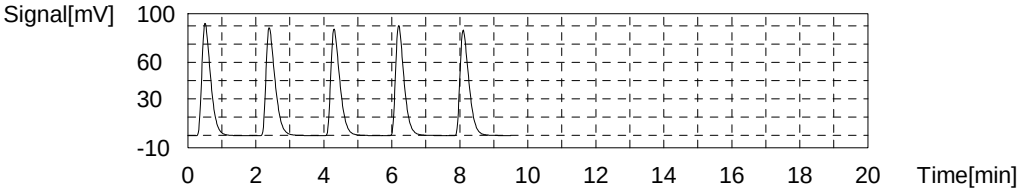
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	10.00	NPOC:543.3mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	168.0	564.7mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:27:08 PM
2	165.4	555.9mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:29:11 PM
3	162.6	546.5mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:31:14 PM
4	158.9	534.0mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:33:17 PM
5	159.7	536.7mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:35:19 PM

Mean Area 161.7
Mean Conc. 543.3mg/L



Sample

Sample Name: 280-95925-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

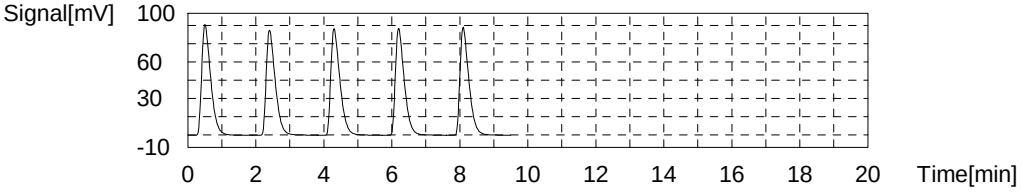
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	10.00	NPOC:543.8mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	169.0	568.0mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:43:49 PM
2	159.7	536.7mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:45:52 PM
3	164.3	552.2mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:47:55 PM
4	160.7	540.1mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:49:58 PM
5	162.5	546.2mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 8:52:00 PM

Mean Area 161.8
Mean Conc. 543.8mg/L



Sample

Sample Name: 280-95808-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

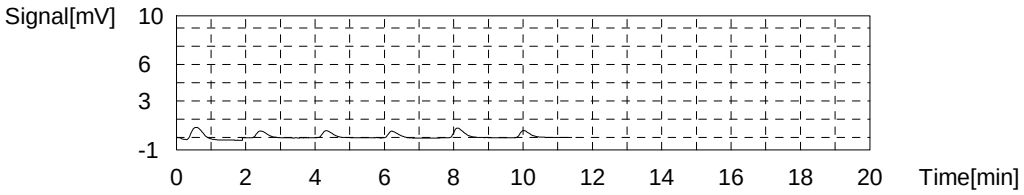
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3139mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.339	0.7123mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:00:30 PM
2	1.195	0.3273mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:02:33 PM
3	1.134	0.3068mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:04:36 PM
4	1.126	0.3041mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:06:39 PM
5	1.625	0.4720mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:08:41 PM
6	1.166	0.3175mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:10:44 PM

Mean Area 1.155
Mean Conc. 0.3139mg/L



Sample

Sample Name: 280-95808-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

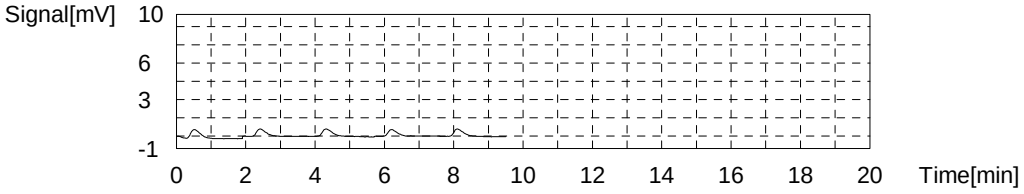
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3184mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.270	0.3525mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:19:09 PM
2	1.120	0.3020mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:21:12 PM
3	1.168	0.3182mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:23:15 PM
4	0.9675	0.2507mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:25:18 PM
5	1.116	0.3007mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:27:20 PM

Mean Area 1.169
Mean Conc. 0.3184mg/L



Sample

Sample Name: 280-95808-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

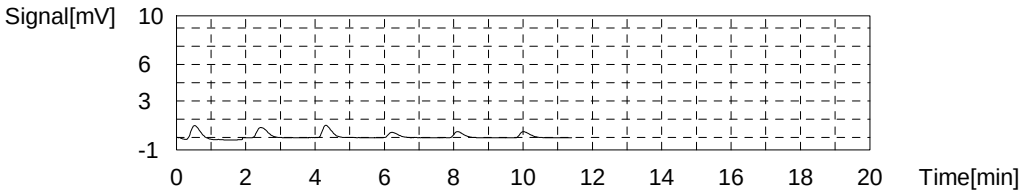
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3154mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.172	0.6561mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:35:50 PM
2	1.814	0.5356mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:37:53 PM
3	1.839	0.5440mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:39:56 PM
4	0.8755	0.2197mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:41:58 PM
5	0.9538	0.2461mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:44:01 PM
6	0.9960	0.2603mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:46:04 PM

Mean Area 1.160
Mean Conc. 0.3154mg/L



Sample

Sample Name: 280-95808-a-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

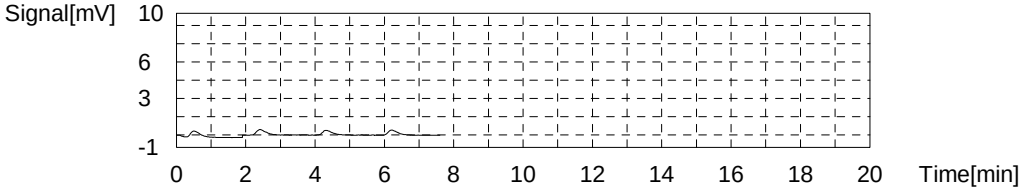
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1991mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8898	0.2246mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:54:29 PM
2	0.8402	0.2079mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:56:32 PM
3	0.7393	0.1739mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 9:58:35 PM
4	0.7867	0.1899mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:00:37 PM

Mean Area 0.8140
Mean Conc. 0.1991mg/L



Sample

Sample Name: 280-95865-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

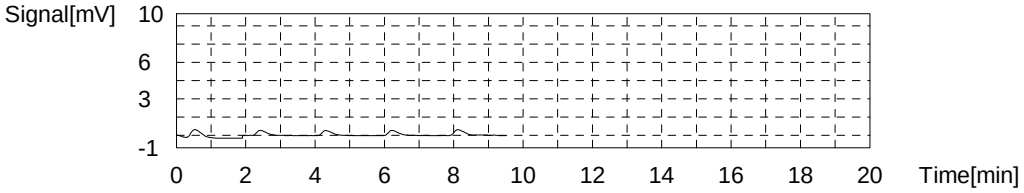
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2081mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.291	0.3596mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:09:08 PM
2	0.7820	0.1883mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:11:11 PM
3	0.8027	0.1952mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:13:14 PM
4	0.8255	0.2029mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:15:17 PM
5	0.9536	0.2460mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:17:19 PM

Mean Area 0.8410
Mean Conc. 0.2081mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

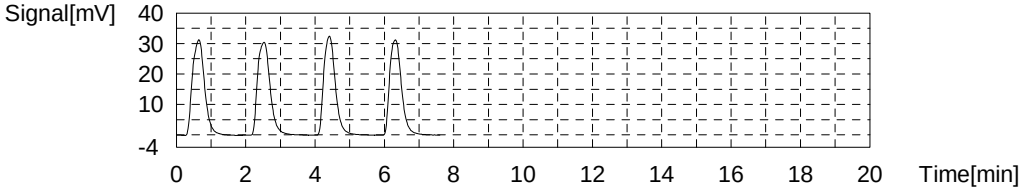
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.55mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	77.47	26.00mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:25:49 PM
2	76.91	25.81mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:27:52 PM
3	75.67	25.39mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:29:55 PM
4	74.47	24.99mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:31:58 PM

Mean Area 76.13
Mean Conc. 25.55mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

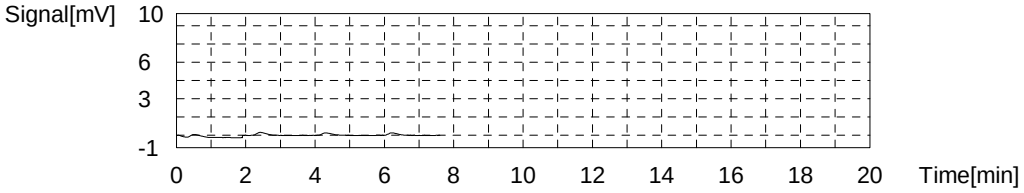
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05876mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4027	0.06062mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:40:29 PM
2	0.4328	0.07075mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:42:32 PM
3	0.3875	0.05551mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:44:35 PM
4	0.3656	0.04814mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:46:37 PM

Mean Area 0.3972
Mean Conc. 0.05876mg/L



Sample

Sample Name: 280-95865-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

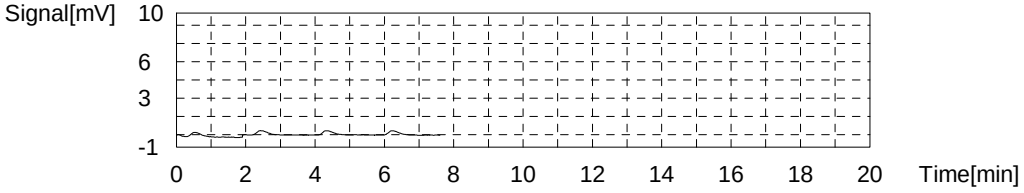
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1659mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6906	0.1575mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:55:08 PM
2	0.7357	0.1727mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:57:11 PM
3	0.7255	0.1693mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 10:59:14 PM
4	0.7107	0.1643mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:01:16 PM

Mean Area 0.7156
Mean Conc. 0.1659mg/L



Sample

Sample Name: 320-27382-i-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

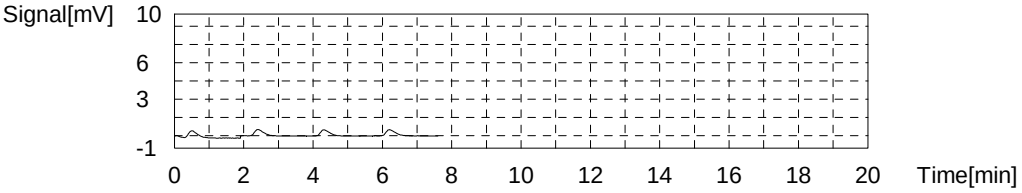
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2385mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9099	0.2313mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:09:48 PM
2	0.9565	0.2470mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:11:51 PM
3	0.9200	0.2347mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:13:54 PM
4	0.9388	0.2411mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:15:56 PM

Mean Area 0.9313
Mean Conc. 0.2385mg/L



Sample

Sample Name: 320-27382-i-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

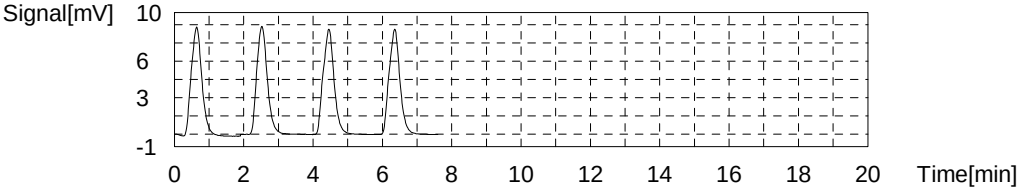
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.305mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.19	6.384mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:24:48 PM
2	18.76	6.239mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:26:51 PM
3	19.02	6.326mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:28:54 PM
4	18.85	6.269mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:30:56 PM

Mean Area 18.95
Mean Conc. 6.305mg/L



Sample

Sample Name: 320-27382-i-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

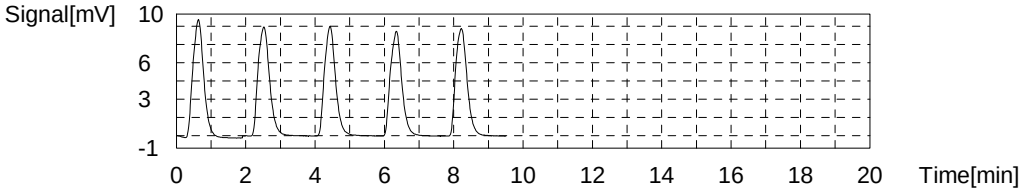
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.719mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.06	7.013mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:39:28 PM
2	20.70	6.892mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:41:31 PM
3	20.02	6.663mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:43:34 PM
4	19.77	6.579mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:45:37 PM
5	20.26	6.744mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:47:39 PM

Mean Area 20.19
Mean Conc. 6.719mg/L



Sample

Sample Name: 320-27382-i-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

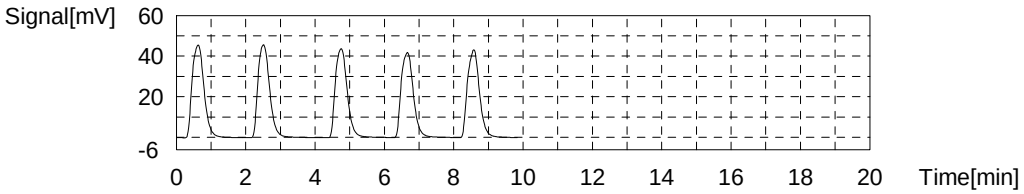
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	10.00	NPOC:352.6mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	109.7	368.5mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:56:10 PM
2	107.6	361.4mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/20/2017 11:58:33 PM
3	104.9	352.3mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:00:36 AM
4	102.6	344.6mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:02:38 AM
5	104.8	352.0mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:04:41 AM

Mean Area 105.0
Mean Conc. 352.6mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

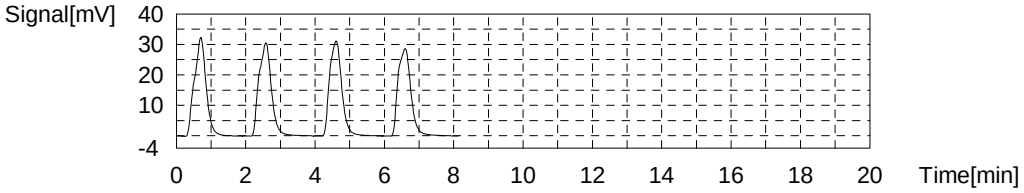
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.62mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.99	25.84mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:13:12 AM
2	76.86	25.79mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:15:24 AM
3	76.84	25.79mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:17:32 AM
4	74.64	25.05mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:19:52 AM

Mean Area 76.33
Mean Conc. 25.62mg/L



Sample

Sample Name: LCSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

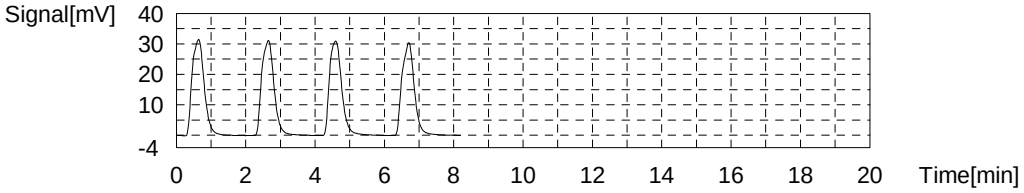
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.80mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	77.65	26.06mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:28:30 AM
2	77.34	25.95mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:30:37 AM
3	76.89	25.80mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:32:50 AM
4	75.68	25.40mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:35:08 AM

Mean Area 76.89
Mean Conc. 25.80mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

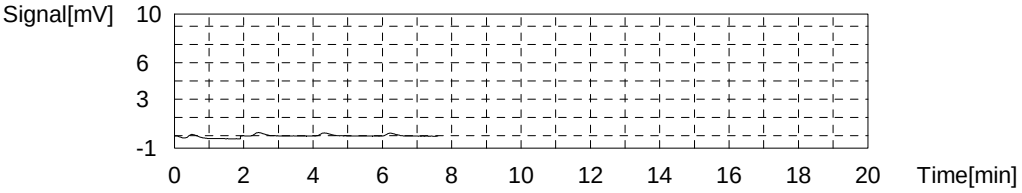
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08792mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5382	0.1062mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:43:39 AM
2	0.5130	0.09775mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:45:42 AM
3	0.4606	0.08011mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:47:45 AM
4	0.4234	0.06759mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:49:47 AM

Mean Area 0.4838
Mean Conc. 0.08792mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

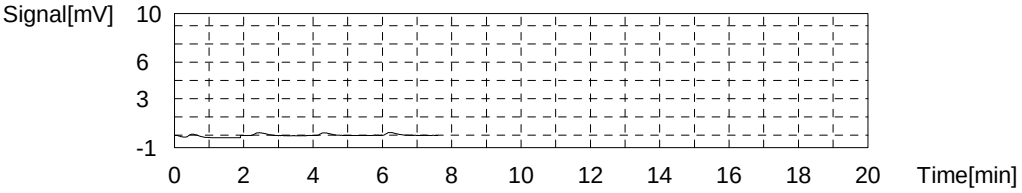
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07859mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4625	0.08075mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 12:58:19 AM
2	0.4933	0.09112mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:00:22 AM
3	0.4072	0.06214mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:02:25 AM
4	0.4613	0.08035mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:04:28 AM

Mean Area 0.4561
Mean Conc. 0.07859mg/L



Sample

Sample Name: 280-95891-a-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

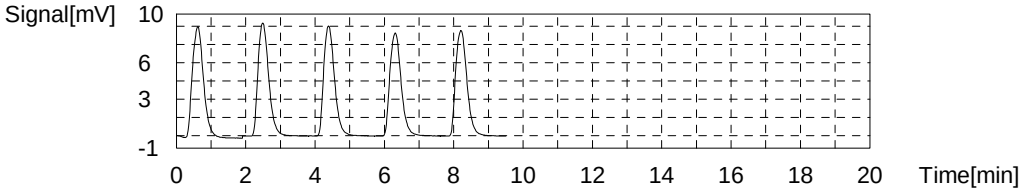
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.496mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.42	6.798mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:12:59 AM
2	19.86	6.609mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:15:02 AM
3	19.51	6.491mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:17:04 AM
4	19.15	6.370mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:19:07 AM
5	19.57	6.512mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:21:10 AM

Mean Area 19.52
Mean Conc. 6.496mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

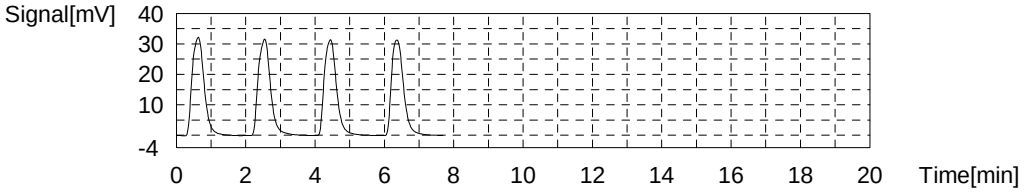
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.02mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	78.73	26.42mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:29:41 AM
2	78.19	26.24mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:31:45 AM
3	77.08	25.87mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:33:51 AM
4	76.18	25.56mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:35:54 AM

Mean Area 77.55
Mean Conc. 26.02mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

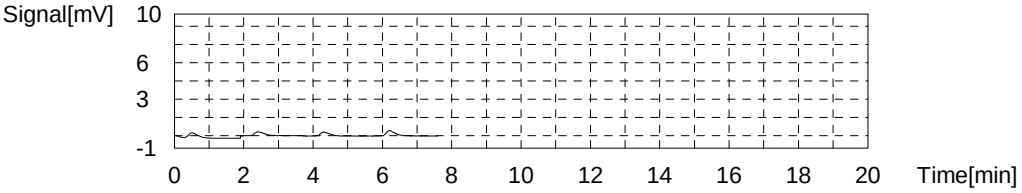
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1381mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6748	0.1522mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:44:26 AM
2	0.5724	0.1177mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:46:29 AM
3	0.5479	0.1095mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:48:31 AM
4	0.7364	0.1729mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:50:34 AM

Mean Area 0.6329
Mean Conc. 0.1381mg/L



Sample

Sample Name: 280-95891-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

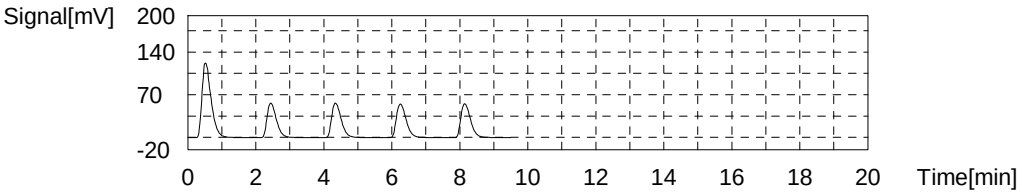
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:74.46mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	230.9	77.64mg/L	50uL	1	R	TOC3.2017_04_17_14_48_47.cal	4/21/2017 1:59:06 AM
2	109.1	73.36mg/L	25uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:01:09 AM
3	111.8	75.18mg/L	25uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:03:12 AM
4	110.9	74.57mg/L	25uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:05:14 AM
5	111.1	74.71mg/L	25uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:07:17 AM

Mean Area 110.7
Mean Conc. 74.46mg/L



Sample

Sample Name: 280-95891-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

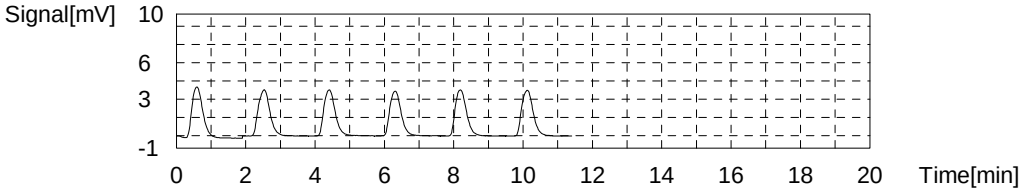
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.830mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.020	2.961mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:15:48 AM
2	8.791	2.884mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:17:51 AM
3	8.498	2.785mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:19:53 AM
4	8.319	2.725mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:21:56 AM
5	8.532	2.797mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:23:59 AM
6	8.703	2.854mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:26:02 AM

Mean Area 8.631
Mean Conc. 2.830mg/L



Sample

Sample Name: MS 280-95891-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

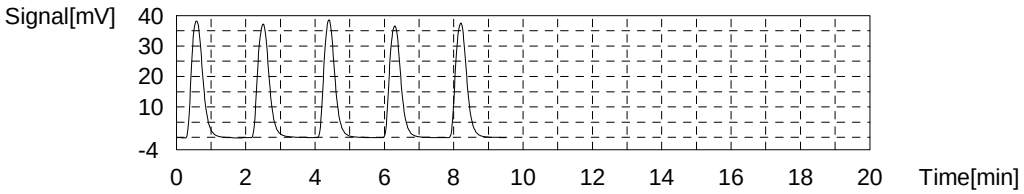
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.44mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.85	29.49mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:34:27 AM
2	85.72	28.77mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:36:30 AM
3	84.80	28.47mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:38:32 AM
4	83.68	28.09mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:40:35 AM
5	84.74	28.45mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:42:38 AM

Mean Area 84.73
Mean Conc. 28.44mg/L



Sample

Sample Name: MSD 280-95891-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

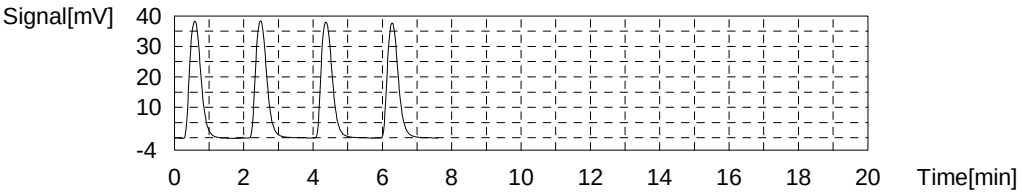
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.87mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.96	29.53mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:51:09 AM
2	86.42	29.01mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:53:12 AM
3	85.36	28.65mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:55:15 AM
4	84.30	28.30mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 2:57:17 AM

Mean Area 86.01
Mean Conc. 28.87mg/L



Sample

Sample Name: 280-95891-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

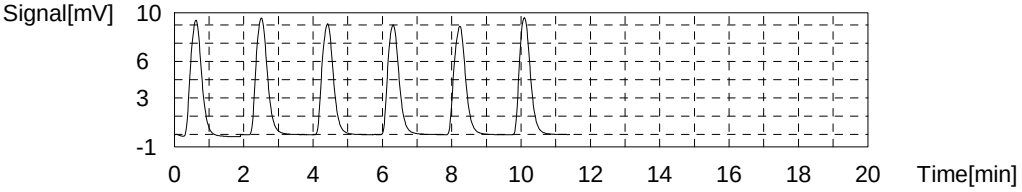
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.923mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.47	7.151mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:05:49 AM
2	21.87	7.286mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:07:52 AM
3	20.80	6.926mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:09:54 AM
4	20.43	6.801mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:11:57 AM
5	20.77	6.915mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:14:00 AM
6	21.17	7.050mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:16:03 AM

Mean Area 20.79
Mean Conc. 6.923mg/L



Sample

Sample Name: 280-95891-a-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

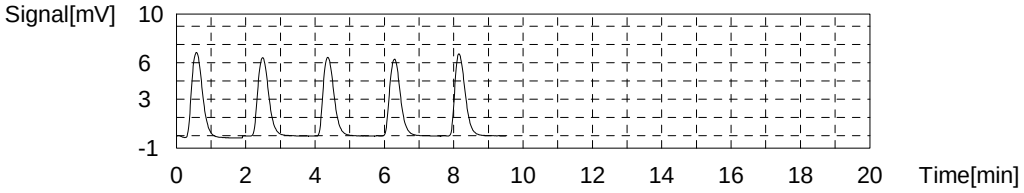
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.631mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.14	5.021mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:24:28 AM
2	14.11	4.674mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:26:31 AM
3	14.07	4.660mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:28:34 AM
4	13.79	4.566mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:30:37 AM
5	13.96	4.623mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:32:39 AM

Mean Area 13.98
Mean Conc. 4.631mg/L



Sample

Sample Name: 280-95891-a-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

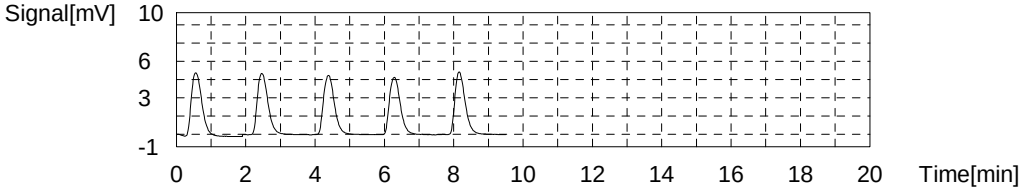
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.520mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.88	3.587mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:41:10 AM
2	10.76	3.546mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:43:13 AM
3	10.53	3.469mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:45:16 AM
4	10.28	3.385mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:47:18 AM
5	10.56	3.479mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:49:21 AM

Mean Area 10.68
Mean Conc. 3.520mg/L



Sample

Sample Name: 280-95922-a-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

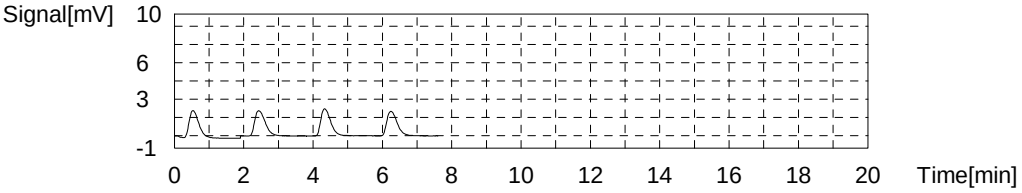
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.365mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.183	1.333mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:57:52 AM
2	4.353	1.390mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 3:59:55 AM
3	4.370	1.396mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:01:57 AM
4	4.203	1.340mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:04:00 AM

Mean Area 4.277
Mean Conc. 1.365mg/L



Sample

Sample Name: 280-95922-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

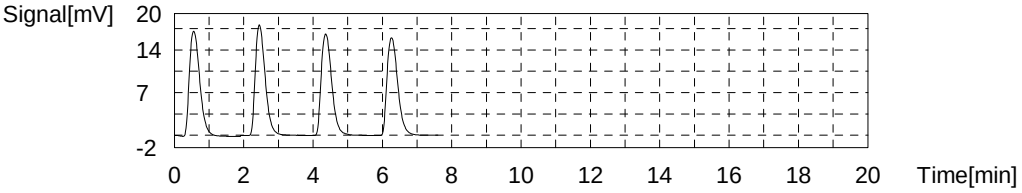
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.92mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.17	12.10mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:12:32 AM
2	36.11	12.08mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:14:35 AM
3	35.35	11.82mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:16:38 AM
4	34.91	11.67mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:18:40 AM

Mean Area 35.63
Mean Conc. 11.92mg/L



Sample

Sample Name: 280-95922-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

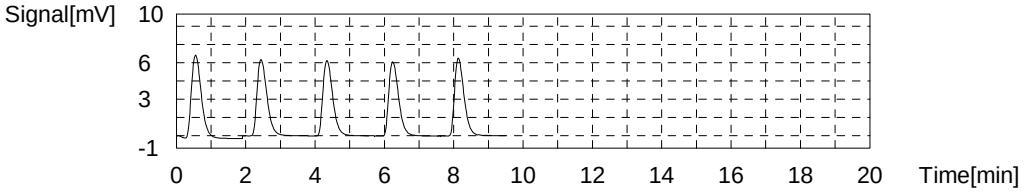
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.058mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.39	4.432mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:27:12 AM
2	12.50	4.132mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:29:15 AM
3	12.27	4.055mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:31:18 AM
4	12.11	4.001mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:33:20 AM
5	12.24	4.045mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:35:23 AM

Mean Area 12.28
Mean Conc. 4.058mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

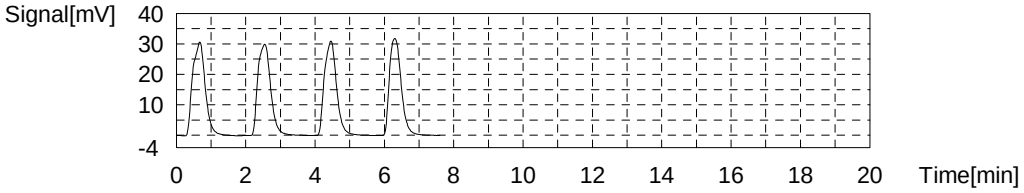
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.88mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	78.47	26.33mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:43:54 AM
2	77.51	26.01mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:45:57 AM
3	76.24	25.58mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:48:00 AM
4	76.23	25.58mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:50:02 AM

Mean Area 77.11
Mean Conc. 25.88mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

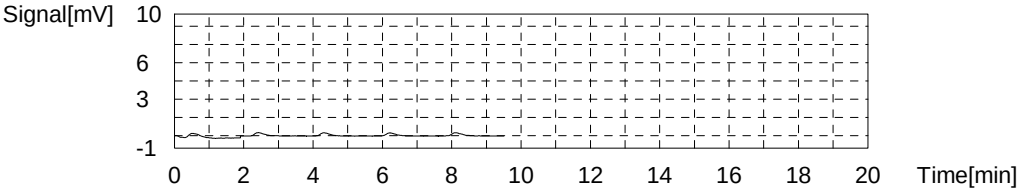
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08315mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7671	0.1833mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 4:58:34 AM
2	0.4826	0.08752mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:00:37 AM
3	0.4477	0.07577mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:02:39 AM
4	0.4637	0.08115mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:04:42 AM
5	0.4845	0.08815mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:06:45 AM

Mean Area 0.4696
Mean Conc. 0.08315mg/L



Sample

Sample Name: 280-95922-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

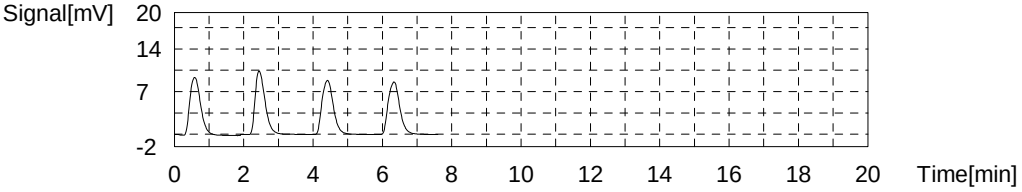
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.809mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.61	6.862mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:15:16 AM
2	20.79	6.922mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:17:18 AM
3	20.25	6.740mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:19:21 AM
4	20.17	6.713mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:21:24 AM

Mean Area 20.46
Mean Conc. 6.809mg/L



Sample

Sample Name: 280-95922-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

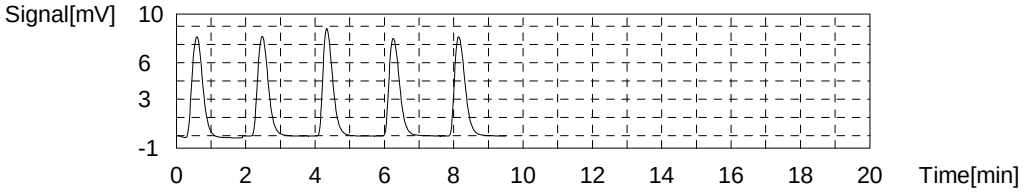
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.748mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.94	5.963mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:29:57 AM
2	17.52	5.822mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:32:00 AM
3	17.36	5.768mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:34:02 AM
4	17.04	5.660mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:36:05 AM
5	17.28	5.741mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:38:08 AM

Mean Area 17.30
Mean Conc. 5.748mg/L



Sample

Sample Name: 280-95922-a-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

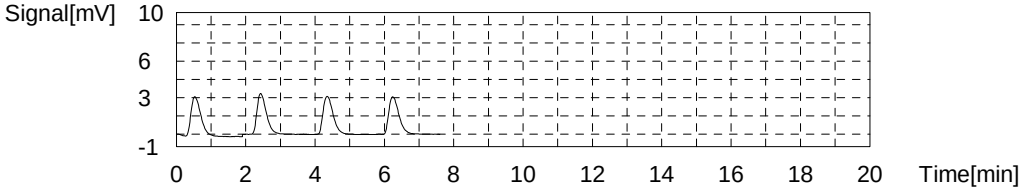
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.053mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.351	2.063mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:46:40 AM
2	6.345	2.061mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:48:43 AM
3	6.304	2.047mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:50:46 AM
4	6.295	2.044mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 5:52:48 AM

Mean Area 6.324
Mean Conc. 2.053mg/L



Sample

Sample Name: MS 280-95922-a-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

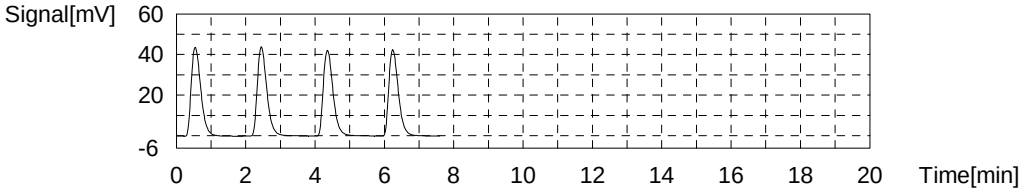
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.06mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	85.06	28.55mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:01:21 AM
2	84.30	28.30mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:03:23 AM
3	83.04	27.87mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:05:26 AM
4	81.99	27.52mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:07:29 AM

Mean Area 83.60
Mean Conc. 28.06mg/L



Sample

Sample Name: MSD 280-95922-a-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

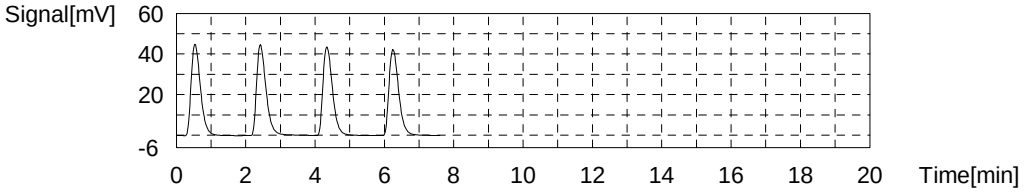
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.33mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	85.38	28.66mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:16:02 AM
2	84.99	28.53mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:18:05 AM
3	84.07	28.22mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:20:08 AM
4	83.15	27.91mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:22:10 AM

Mean Area 84.40
Mean Conc. 28.33mg/L



Sample

Sample Name: 280-95922-a-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

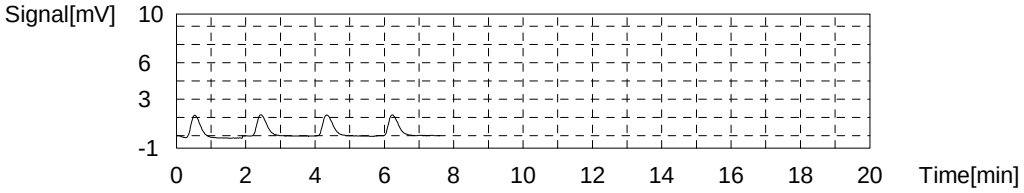
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.074mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.485	1.098mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:30:43 AM
2	3.404	1.071mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:32:45 AM
3	3.463	1.091mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:34:48 AM
4	3.308	1.038mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:36:51 AM

Mean Area 3.415
Mean Conc. 1.074mg/L



Sample

Sample Name: 280-95922-a-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

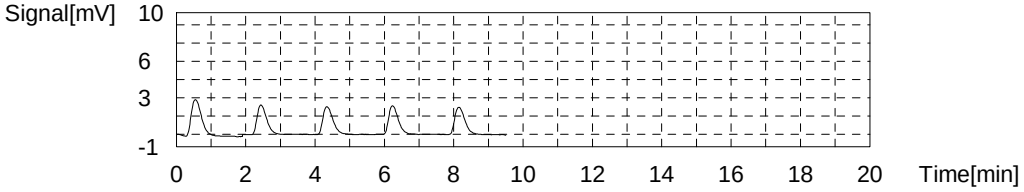
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.474mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.144	1.993mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:45:24 AM
2	4.674	1.498mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:47:27 AM
3	4.659	1.493mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:49:29 AM
4	4.483	1.434mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:51:32 AM
5	4.595	1.472mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 6:53:35 AM

Mean Area 4.603
Mean Conc. 1.474mg/L



Sample

Sample Name: 280-95922-a-10
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

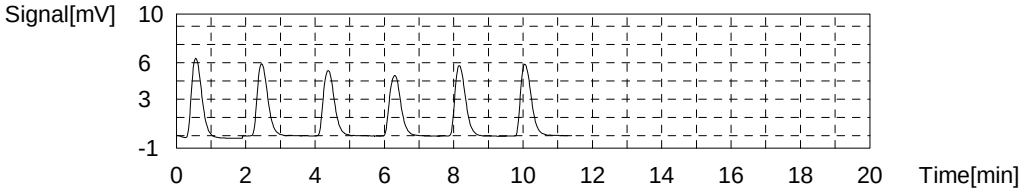
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.087mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.55	4.485mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:02:07 AM
2	12.48	4.125mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:04:09 AM
3	11.92	3.937mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:06:12 AM
4	11.47	3.785mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:08:15 AM
5	12.31	4.068mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:10:18 AM
6	12.75	4.216mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:12:21 AM

Mean Area 12.37
Mean Conc. 4.087mg/L



Sample

Sample Name: 280-95922-a-11
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

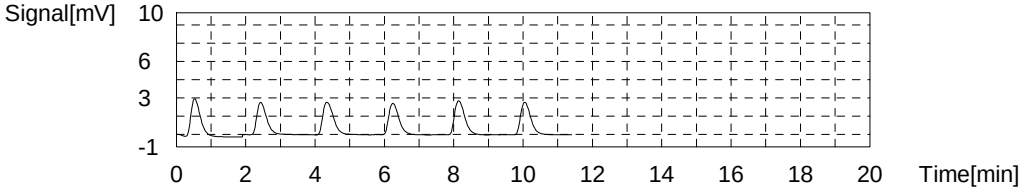
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.838mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.773	1.868mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:20:47 AM
2	5.186	1.670mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:22:50 AM
3	5.715	1.849mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:24:52 AM
4	5.262	1.696mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:26:55 AM
5	5.845	1.892mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:28:58 AM
6	5.404	1.744mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:31:01 AM

Mean Area 5.684
Mean Conc. 1.838mg/L



Sample

Sample Name: 280-95922-a-12
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

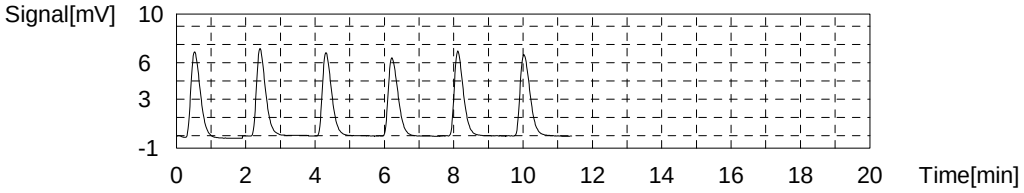
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.243mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.46	4.455mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:39:27 AM
2	13.21	4.371mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:41:29 AM
3	12.76	4.220mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:43:32 AM
4	12.64	4.179mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:45:35 AM
5	12.71	4.203mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:47:38 AM
6	13.33	4.411mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:49:41 AM

Mean Area 12.83
Mean Conc. 4.243mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

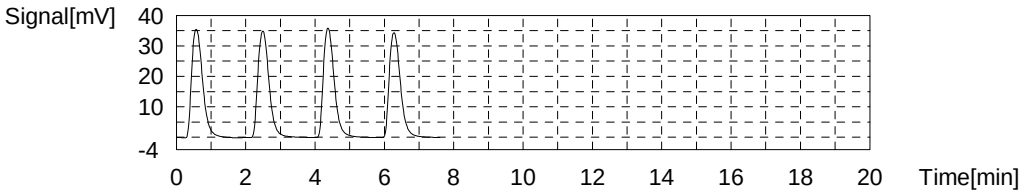
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.36mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	79.48	26.67mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 7:58:07 AM
2	78.50	26.34mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:00:10 AM
3	78.81	26.45mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:02:13 AM
4	77.34	25.95mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:04:15 AM

Mean Area 78.53
Mean Conc. 26.36mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

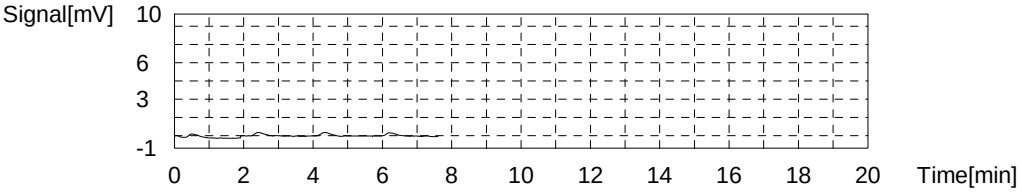
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.09688mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5517	0.1108mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:12:48 AM
2	0.5025	0.09421mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:14:50 AM
3	0.4753	0.08506mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:16:53 AM
4	0.5122	0.09748mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:18:56 AM

Mean Area 0.5104
Mean Conc. 0.09688mg/L



Sample

Sample Name: 280-95922-a-13
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

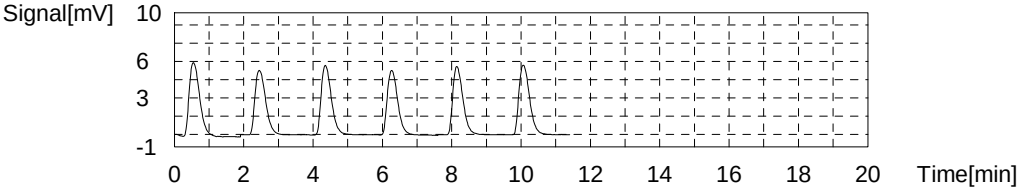
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.775mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.89	4.263mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:27:29 AM
2	11.40	3.762mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:29:32 AM
3	11.79	3.893mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:31:34 AM
4	11.14	3.674mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:33:37 AM
5	11.43	3.772mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:35:40 AM
6	12.27	4.055mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:37:43 AM

Mean Area 11.44
Mean Conc. 3.775mg/L



Sample

Sample Name: 280-95922-a-14
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

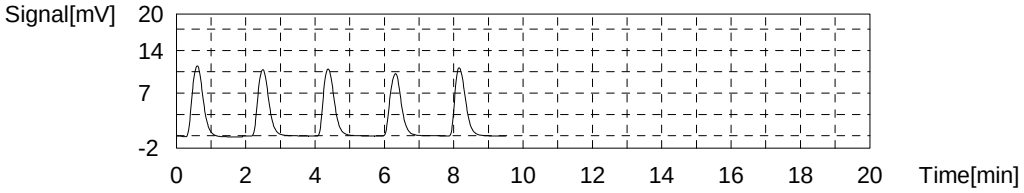
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.951mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	25.61	8.544mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:46:08 AM
2	24.03	8.013mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:48:11 AM
3	24.10	8.036mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:50:14 AM
4	23.39	7.797mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:52:17 AM
5	23.87	7.959mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 8:54:20 AM

Mean Area 23.85
Mean Conc. 7.951mg/L



Sample

Sample Name: 280-95922-a-15
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

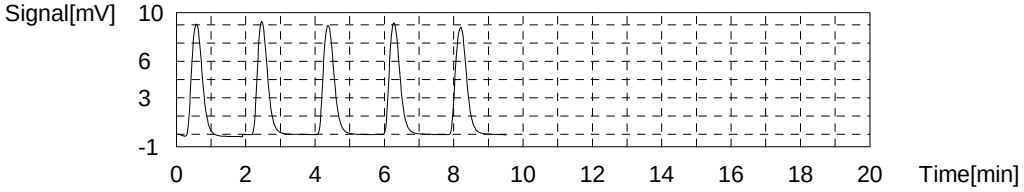
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.551mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.89	6.619mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 9:02:52 AM
2	18.88	6.279mg/L	50uL	1	E	TOC3.2017_04_17_14_48_47.cal	4/21/2017 9:04:54 AM
3	19.54	6.501mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 9:06:57 AM
4	19.57	6.512mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 9:09:00 AM
5	19.75	6.572mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 9:11:03 AM

Mean Area 19.69
Mean Conc. 6.551mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

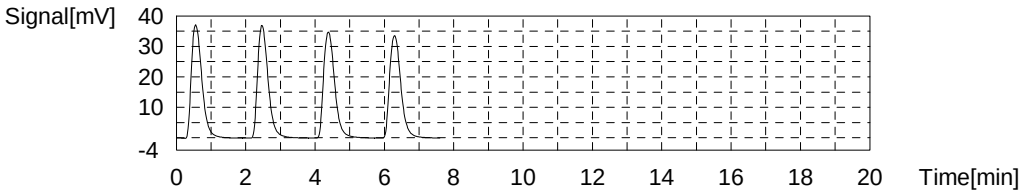
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.20mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	79.67	26.74mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 9:19:35 AM
2	78.54	26.36mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 9:21:37 AM
3	77.73	26.09mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 9:23:40 AM
4	76.36	25.62mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 9:25:43 AM

Mean Area 78.08
Mean Conc. 26.20mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

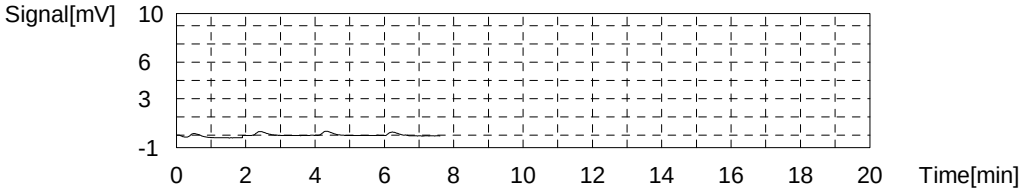
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1243mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5417	0.1074mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 9:34:16 AM
2	0.6503	0.1440mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 9:36:19 AM
3	0.6513	0.1443mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 9:38:21 AM
4	0.5248	0.1017mg/L	50uL	1		TOC3.2017_04_17_14_48_47.cal	4/21/2017 9:40:24 AM

Mean Area 0.5920
Mean Conc. 0.1243mg/L



TOC-V Cal Curve Information
C:¥TOC3201¥CalCurves¥TOC3.2017_04_17_14_48_47.cal

Date of Creation 3:55:54 PM 4/17/2017
User cj
System TOC-V cpn 3

Cal. Curve

Sample Name: CAL 110716
Sample ID: Untitled
Object ID 0A-103108-04335027-133C6B11B59B-0000
Cal. Curve: TOC3.2017_04_17_14_48_47.cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.2831	50uL	1	*******		4/17/2017 2:56:40 PM
2	0.2887	50uL	1	*******		4/17/2017 2:58:43 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 0.2859
SD Area 0.00396
CV Area 1.39%
Vial 69

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.177	50uL	1	*******		4/17/2017 3:07:18 PM
2	3.327	50uL	1	*******	E	4/17/2017 3:09:21 PM
3	3.229	50uL	1	*******		4/17/2017 3:11:23 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 3.203
SD Area 0.03677
CV Area 1.15%
Vial 70

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	14.94	50uL	1	*******		4/17/2017 3:19:54 PM
2	15.94	50uL	1	*******	E	4/17/2017 3:21:57 PM
3	15.06	50uL	1	*******		4/17/2017 3:24:00 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 15.00
SD Area 0.08485
CV Area 0.57%
Vial 71

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	29.91	50uL	1	*******		4/17/2017 3:32:30 PM
2	30.48	50uL	1	*******		4/17/2017 3:34:33 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 30.20
SD Area 0.4031
CV Area 1.33%
Vial 72

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	73.98	50uL	1	*******		4/17/2017 3:43:08 PM
2	74.19	50uL	1	*******		4/17/2017 3:45:11 PM

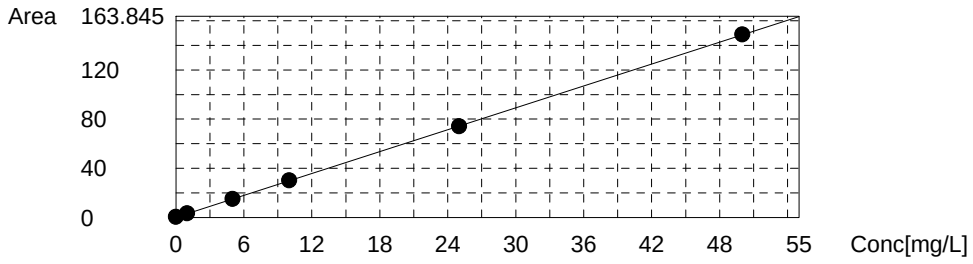
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 74.09
SD Area 0.1485
CV Area 0.20%
Vial 73

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	148.4	50uL	1	*******		4/17/2017 3:53:47 PM
2	149.5	50uL	1	*******		4/17/2017 3:55:54 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 148.9
SD Area 0.7778
CV Area 0.52%
Vial 74

Slope: 2.971
Intercept 0.2226
r^2 1.0000
r 1.0000
Zero Shift No



Subcontract Data

Shipping and Receiving Documents

leidos

301 Laboratory Road, Oak Ridge, Tennessee 37831(865) 482-9031

CHAIN OF CUSTODY RECORD

COC NO.:

PROJECT NAME: Schenectady

PROJECT NUMBER: 314561.00.04.8002.940

PROJECT MANAGER: Mike Poligone

Sampler (Signature) Michael Deyette (Printed Name)

280-95891 Chain of Custody

LABORATORY NAME: Test America

LABORATORY ADDRESS: 4955 Yarrow Street, Arvada, CO 80002, POC: Jessica DeHerrera

PHONE NO: 303-736-0165

Sample ID	Date Collected	Time Collected	Matrix	VOC 1	TOC 2	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
6MW2004	4/12/17	8:20 am	GW	X	X	4		
6MW2004D	4/12/17	8:20 am	GW	X		3		
6MW2004MS	4/12/17	8:20 am	GW	X		3		
6MW2004MSD	4/12/17	8:20 am	GW	X		3		
6MW2204	4/12/17	9:40 am	GW	X	X	4		
6MW2304	4/12/17	10:40 am	GW	X	X	4		
6MW2404	4/12/17	11:35 am	GW	X	X	4		
6MW2504	4/12/17	12:50 pm	GW	X	X	4		
6MW2604	4/12/17	13:40 pm	GW	X	X	4		
TB05	4/12/17	8:00 am	QC	X		2		

DJB 4-12-17

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Michael D. Deyette	4/12/17 15:02	Daniel Bubniak	4/12/17 15:02
COMPANY NAME: Aztech		COMPANY NAME: TA	
RECEIVED BY:	Date/Time	RELINQUISHED BY: Daniel Bubniak	Date/Time 4/12/17 1800
COMPANY NAME:		COMPANY NAME: TA	
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time 4-13-17 0930
COMPANY NAME:		COMPANY NAME: TAD	

TOTAL NUMBER OF CONTAINERS: 35

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

Standard TAT

1 3 - 40 ml Vials, HCL to pH < 2, 4C

2 1 - 250 ml Amber Glass, H2SO4 to pH < 2, 4C

1.8 IR#7 0.0 RP 4-13-17

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

280-95891 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: DeHerrera, Jessica H		OC No: 280-394334.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.deherrera@testamericainc.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA		Job #: 280-95891-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/2/2017			
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	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:						
6MW2004 (280-95891-1)	4/12/17	08:20 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2004MS (280-95891-1MS)	4/12/17	08:20 Eastern	MS	Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2004MSD (280-95891-1MSD)	4/12/17	08:20 Eastern	MSD	Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2004D (280-95891-2)	4/12/17	08:20 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2204 (280-95891-3)	4/12/17	09:40 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2304 (280-95891-4)	4/12/17	10:40 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2404 (280-95891-5)	4/12/17	11:35 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2504 (280-95891-6)	4/12/17	12:50 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2604 (280-95891-7)	4/12/17	13:40 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 *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *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: Rhonda Mc	Date/Time: 4/14/17 1535	Company TAL	Received by:	Date/Time: 4-15-17 0920	Company TAL
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:

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: DeHerrera, Jessica H	Carrier Tracking No(s):	COC No: 280-394334.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.deherrera@testamericainc.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA		Job #: 280-95891-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/2/2017			
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	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:						
TB05 (280-95891-8)	4/12/17	08:00 Eastern		Water			X	2	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]	4/14/17 1535	TAD	[signature]	4-15-17 0820	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:

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 280-95891-1

Login Number: 95891
List Number: 1
Creator: Pottruff, Reed W

List Source: 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.	True	
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: 280-95891-1

Login Number: 95891
List Number: 2
Creator: Taylor, Kristene N

List Source: TestAmerica St. Louis
List Creation: 04/15/17 12:50 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	5.9,2.8
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

JULY 2017

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ANALYTICAL REPORT

Job Number: 280-99527-1

Job Description: Stratton ANGB, NY

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
8/10/2017 4:50 PM

Donna R Rydberg, Senior Project Manager
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0192
donna.rydberg@testamericainc.com
08/10/2017

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.

Table of Contents

Cover Title Page 1

Data Summaries 4

Definitions 4

Case Narrative 5

Detection Summary 7

Client Sample Results 9

Default Detection Limits 23

Surrogate Summary 25

QC Sample Results 26

QC Association 38

Chronicle 39

Certification Summary 41

Method Summary 43

Sample Summary 44

Manual Integration Summary 45

Reagent Traceability 46

COAs 62

Organic Sample Data 102

GC/MS VOA 102

Method 8260C DOD 102

Method 8260C DOD QC Summary 103

Method 8260C DOD Sample Data 120

Standards Data 198

Method 8260C DOD ICAL Data 198

Method 8260C DOD CCAL Data 249

Raw QC Data 309

Table of Contents

Method 8260C DOD Tune Data 309

Method 8260C DOD Blank Data 321

Method 8260C DOD LCS/LCSD Data 336

Method 8260C DOD MS/MSD Data 357

Method 8260C DOD Run Logs 373

Inorganic Sample Data 376

General Chemistry Data 376

Gen Chem Cover Page 377

Gen Chem Sample Data 378

Gen Chem QC Data 384

Gen Chem ICV/CCV 384

Gen Chem Blanks 386

Gen Chem LCS/LCSD 387

Gen Chem MDL 389

Gen Chem Analysis Run Log 393

Gen Chem Prep Data 397

Gen Chem Raw Data 399

Subcontracted Data 481

Shipping and Receiving Documents 482

Client Chain of Custody 483

Sample Receipt Checklist 486

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
Q	One or more quality control criteria failed.
J	Estimated: The analyte was positively identified; the quantitation is an estimation

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
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

Report Number: 280-99527-1

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.

RECEIPT

The samples were received on 7/25/2017 at 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5º C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC): TRIP BLANK (280-99527-12). The additional trip blank was logged with a sample collection date and time of 7/21/17 at 0935, per the earliest collected associated field sample, for 8260C_DOD5 - VOC analysis. The client was notified on 7/25/17.

A second trip blank set was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). The client was contacted and directed the laboratory to cancel this extra Trip Blank as these were just extra bottles returned in the cooler.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples 6MW2005 (280-99527-1), 6MW2205 (280-99527-5), 6MW2305 (280-99527-6), 6MW2405 (280-99527-7), 6MW2505 (280-99527-8), 6MW2605 (280-99527-9), TB06 (280-99527-10), FB02 (280-99527-11) and 6MW2005D (280-99527-13) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with 8260C_DOD5. The samples were analyzed on 08/01/2017 and 08/02/2017.

The continuing calibration verification (CCV 160-320257/3) associated with batch 160-320257 recovered outside acceptance criteria, low biased, for 2-Hexanone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported and flagged per DoD QSM.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-320257: Acetone, Bromomethane, Chloroethane, and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCV 160-320257/3) and (CCVC 160-320257/19)

The continuing calibration verification (CCV 160-320393/3) associated with batch 160-320393 recovered above the upper control limit for Trichlorofluoromethane. The sample associated with this CCV was non-detect for the affected analyte; therefore, the data have been reported.

The continuing calibration verification (CCV 160-320393/3) associated with batch 160-320393 recovered outside acceptance criteria, low biased, for 2-Hexanone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-320393: Acetone, Chloroethane and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCV 160-320393/3) and (CCVC 160-320393/9)

Trichloroethene was detected in method blank MB 160-320393/7 at a level that was less than one half the LOQ; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged “J” in accordance with the DoD QSM.

The recovery for surrogate 1,2-Dichloroethane-d4 exceeded the surrogate recovery criteria in samples 6MW2005D (280-99527-13) and 6MW2205 (280-99527-5). These samples did not contain any target analytes associated with the affected surrogate; therefore,

re-analysis was not performed. Data was reported and flagged per DoD QSM.

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

TOTAL ORGANIC CARBON

Samples 6MW2005 (280-99527-1), 6MW2205 (280-99527-5), 6MW2305 (280-99527-6), 6MW2405 (280-99527-7), 6MW2505 (280-99527-8) and 6MW2605 (280-99527-9) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 07/27/2017 and 07/28/2017.

Total Organic Carbon - Quad was detected in method blank MB 280-382409/36 at a level that was less than one half the LOQ; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged “J” in accordance with the DoD QSM.

Total Organic Carbon - Quad was detected in method blank MB 280-382409/5 at a level that was less than one half the LOQ; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged “J” in accordance with the DoD QSM.

Sample 6MW2205 (280-99527-5)[2.17X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-99527-1

Client Sample ID: 6MW2005 — Lab Sample ID: 280-99527-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.46	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	8.6		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2205 — Lab Sample ID: 280-99527-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	45		20	6.7	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	3.3	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Tetrachloroethene	1.4	J	5.0	0.28	ug/L	1		8260C DOD	Total/NA
Trichloroethene	1.7	J Q	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	2.3	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	83		2.2	0.34	mg/L	2.17		9060A	Total/NA

Client Sample ID: 6MW2305 — Lab Sample ID: 280-99527-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.1	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Trichloroethene	0.80	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	1.6	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	3.9		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2405 — Lab Sample ID: 280-99527-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.29	J	5.0	0.15	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	4.7	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Trichloroethene	6.9		5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	1.3	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	5.9		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2505 — Lab Sample ID: 280-99527-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene - RA	5.8		5.0	0.16	ug/L	1		8260C DOD	Total/NA
Vinyl chloride - RA	66		5.0	0.43	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: 6MW2605 — Lab Sample ID: 280-99527-9

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.4	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Trichloroethene	0.60	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	1.8	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	5.4		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: TB06 — Lab Sample ID: 280-99527-10

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.42	J	5.0	0.15	ug/L	1		8260C DOD	Total/NA
Toluene	1.2	J	5.0	1.0	ug/L	1		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-99527-1

Client Sample ID: FB02 — Lab Sample ID: 280-99527-11

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.29	J	5.0	0.15	ug/L	1		8260C DOD	Total/NA
Toluene	1.3	J	5.0	1.0	ug/L	1		8260C DOD	Total/NA

Client Sample ID: 6MW2005D — Lab Sample ID: 280-99527-13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.40	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 6MW2005

Date Collected: 07/21/17 09:35
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-1

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	2.0	U	5.0	0.25	ug/L			08/01/17 19:21	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			08/01/17 19:21	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			08/01/17 19:21	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			08/01/17 19:21	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			08/01/17 19:21	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			08/01/17 19:21	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			08/01/17 19:21	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			08/01/17 19:21	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			08/01/17 19:21	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			08/01/17 19:21	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			08/01/17 19:21	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			08/01/17 19:21	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			08/01/17 19:21	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			08/01/17 19:21	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			08/01/17 19:21	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			08/01/17 19:21	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			08/01/17 19:21	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			08/01/17 19:21	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			08/01/17 19:21	1
2-Hexanone	2.0	U Q	20	0.59	ug/L			08/01/17 19:21	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			08/01/17 19:21	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			08/01/17 19:21	1
Acetone	10	U	20	6.7	ug/L			08/01/17 19:21	1
Benzene	1.0	U	5.0	0.25	ug/L			08/01/17 19:21	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			08/01/17 19:21	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			08/01/17 19:21	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			08/01/17 19:21	1
Bromoform	1.0	U	5.0	0.37	ug/L			08/01/17 19:21	1
Bromomethane	2.0	U	10	0.40	ug/L			08/01/17 19:21	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			08/01/17 19:21	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			08/01/17 19:21	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			08/01/17 19:21	1
Chloroethane	1.0	U	10	0.38	ug/L			08/01/17 19:21	1
Chloroform	1.0	U	5.0	0.15	ug/L			08/01/17 19:21	1
Chloromethane	2.0	U	10	0.55	ug/L			08/01/17 19:21	1
cis-1,2-Dichloroethene	**0.46**	**J**	5.0	0.16	ug/L			08/01/17 19:21	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			08/01/17 19:21	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			08/01/17 19:21	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			08/01/17 19:21	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			08/01/17 19:21	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			08/01/17 19:21	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			08/01/17 19:21	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			08/01/17 19:21	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			08/01/17 19:21	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			08/01/17 19:21	1
Naphthalene	2.0	U	5.0	0.85	ug/L			08/01/17 19:21	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			08/01/17 19:21	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			08/01/17 19:21	1
o-Xylene	1.0	U	5.0	0.32	ug/L			08/01/17 19:21	1

Client Sample ID: 6MW2005

Date Collected: 07/21/17 09:35
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-1

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			08/01/17 19:21	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 19:21	1
Styrene	1.0	U	5.0	0.35	ug/L			08/01/17 19:21	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 19:21	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			08/01/17 19:21	1
Toluene	1.0	U	5.0	1.0	ug/L			08/01/17 19:21	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			08/01/17 19:21	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			08/01/17 19:21	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			08/01/17 19:21	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			08/01/17 19:21	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			08/01/17 19:21	1
Xylenes (total)	5.0	U	10	0.85	ug/L			08/01/17 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*81 - 118*		*08/01/17 19:21*	*1*
4-Bromofluorobenzene (Surr)	*86*		*85 - 114*		*08/01/17 19:21*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 119*		*08/01/17 19:21*	*1*
Toluene-d8 (Surr)	*95*		*89 - 112*		*08/01/17 19:21*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**8.6**		1.0	0.16	mg/L			07/27/17 22:57	1

Client Sample ID: 6MW2205

Date Collected: 07/21/17 11:05
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-5

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	2.0	U	5.0	0.25	ug/L			08/01/17 21:07	1
1,1,1-Trichloroethane	1.0	U Q	5.0	0.29	ug/L			08/01/17 21:07	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			08/01/17 21:07	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			08/01/17 21:07	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			08/01/17 21:07	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			08/01/17 21:07	1
1,1-Dichloropropene	1.0	U Q	5.0	0.30	ug/L			08/01/17 21:07	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			08/01/17 21:07	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			08/01/17 21:07	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			08/01/17 21:07	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			08/01/17 21:07	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			08/01/17 21:07	1
1,2-Dichloroethane	1.0	U Q	5.0	0.37	ug/L			08/01/17 21:07	1
1,2-Dichloropropane	1.0	U Q	5.0	0.32	ug/L			08/01/17 21:07	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			08/01/17 21:07	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			08/01/17 21:07	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			08/01/17 21:07	1
2-Butanone (MEK)	5.0	U Q	20	0.39	ug/L			08/01/17 21:07	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			08/01/17 21:07	1
2-Hexanone	2.0	U Q	20	0.59	ug/L			08/01/17 21:07	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			08/01/17 21:07	1

Client Sample ID: 6MW2205

Date Collected: 07/21/17 11:05
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-5

Matrix: Water

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)	2.0	U	20	0.33	ug/L			08/01/17 21:07	1
Acetone	**45**		20	6.7	ug/L			08/01/17 21:07	1
Benzene	1.0	U Q	5.0	0.25	ug/L			08/01/17 21:07	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			08/01/17 21:07	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			08/01/17 21:07	1
Bromodichloromethane	2.0	U Q	5.0	0.25	ug/L			08/01/17 21:07	1
Bromoform	1.0	U	5.0	0.37	ug/L			08/01/17 21:07	1
Bromomethane	2.0	U	10	0.40	ug/L			08/01/17 21:07	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			08/01/17 21:07	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			08/01/17 21:07	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			08/01/17 21:07	1
Chloroethane	1.0	U	10	0.38	ug/L			08/01/17 21:07	1
Chloroform	1.0	U	5.0	0.15	ug/L			08/01/17 21:07	1
Chloromethane	2.0	U	10	0.55	ug/L			08/01/17 21:07	1
cis-1,2-Dichloroethene	**3.3**	**J**	5.0	0.16	ug/L			08/01/17 21:07	1
cis-1,3-Dichloropropene	1.0	U Q	5.0	0.34	ug/L			08/01/17 21:07	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			08/01/17 21:07	1
Dibromomethane	2.0	U Q	5.0	0.41	ug/L			08/01/17 21:07	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			08/01/17 21:07	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			08/01/17 21:07	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			08/01/17 21:07	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			08/01/17 21:07	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			08/01/17 21:07	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			08/01/17 21:07	1
Naphthalene	2.0	U	5.0	0.85	ug/L			08/01/17 21:07	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			08/01/17 21:07	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			08/01/17 21:07	1
o-Xylene	1.0	U	5.0	0.32	ug/L			08/01/17 21:07	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			08/01/17 21:07	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 21:07	1
Styrene	1.0	U	5.0	0.35	ug/L			08/01/17 21:07	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 21:07	1
Tetrachloroethene	**1.4**	**J**	5.0	0.28	ug/L			08/01/17 21:07	1
Toluene	1.0	U	5.0	1.0	ug/L			08/01/17 21:07	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			08/01/17 21:07	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			08/01/17 21:07	1
Trichloroethene	**1.7**	**J Q**	5.0	0.29	ug/L			08/01/17 21:07	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			08/01/17 21:07	1
Vinyl chloride	**2.3**	**J**	5.0	0.43	ug/L			08/01/17 21:07	1
Xylenes (total)	5.0	U	10	0.85	ug/L			08/01/17 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*	*Q*	*81 - 118*		*08/01/17 21:07*	*1*
4-Bromofluorobenzene (Surr)	*89*		*85 - 114*		*08/01/17 21:07*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 119*		*08/01/17 21:07*	*1*
Toluene-d8 (Surr)	*92*		*89 - 112*		*08/01/17 21:07*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**83**		2.2	0.34	mg/L			07/27/17 23:15	2.17

Client Sample ID: 6MW2305

Date Collected: 07/21/17 12:00
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-6

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	2.0	U	5.0	0.25	ug/L			08/01/17 21:32	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			08/01/17 21:32	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			08/01/17 21:32	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			08/01/17 21:32	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			08/01/17 21:32	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			08/01/17 21:32	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			08/01/17 21:32	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			08/01/17 21:32	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			08/01/17 21:32	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			08/01/17 21:32	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			08/01/17 21:32	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			08/01/17 21:32	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			08/01/17 21:32	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			08/01/17 21:32	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			08/01/17 21:32	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			08/01/17 21:32	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			08/01/17 21:32	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			08/01/17 21:32	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			08/01/17 21:32	1
2-Hexanone	2.0	U Q	20	0.59	ug/L			08/01/17 21:32	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			08/01/17 21:32	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			08/01/17 21:32	1
Acetone	10	U	20	6.7	ug/L			08/01/17 21:32	1
Benzene	1.0	U	5.0	0.25	ug/L			08/01/17 21:32	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			08/01/17 21:32	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			08/01/17 21:32	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			08/01/17 21:32	1
Bromoform	1.0	U	5.0	0.37	ug/L			08/01/17 21:32	1
Bromomethane	2.0	U	10	0.40	ug/L			08/01/17 21:32	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			08/01/17 21:32	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			08/01/17 21:32	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			08/01/17 21:32	1
Chloroethane	1.0	U	10	0.38	ug/L			08/01/17 21:32	1
Chloroform	1.0	U	5.0	0.15	ug/L			08/01/17 21:32	1
Chloromethane	2.0	U	10	0.55	ug/L			08/01/17 21:32	1
cis-1,2-Dichloroethene	**2.1**	**J**	5.0	0.16	ug/L			08/01/17 21:32	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			08/01/17 21:32	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			08/01/17 21:32	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			08/01/17 21:32	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			08/01/17 21:32	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			08/01/17 21:32	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			08/01/17 21:32	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			08/01/17 21:32	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			08/01/17 21:32	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			08/01/17 21:32	1
Naphthalene	2.0	U	5.0	0.85	ug/L			08/01/17 21:32	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			08/01/17 21:32	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			08/01/17 21:32	1
o-Xylene	1.0	U	5.0	0.32	ug/L			08/01/17 21:32	1

Client Sample ID: 6MW2305

Date Collected: 07/21/17 12:00
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-6

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			08/01/17 21:32	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 21:32	1
Styrene	1.0	U	5.0	0.35	ug/L			08/01/17 21:32	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 21:32	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			08/01/17 21:32	1
Toluene	1.0	U	5.0	1.0	ug/L			08/01/17 21:32	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			08/01/17 21:32	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			08/01/17 21:32	1
Trichloroethene	**0.80**	**J**	5.0	0.29	ug/L			08/01/17 21:32	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			08/01/17 21:32	1
Vinyl chloride	**1.6**	**J**	5.0	0.43	ug/L			08/01/17 21:32	1
Xylenes (total)	5.0	U	10	0.85	ug/L			08/01/17 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*81 - 118*		*08/01/17 21:32*	*1*
4-Bromofluorobenzene (Surr)	*88*		*85 - 114*		*08/01/17 21:32*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 119*		*08/01/17 21:32*	*1*
Toluene-d8 (Surr)	*95*		*89 - 112*		*08/01/17 21:32*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.9**		1.0	0.16	mg/L			07/28/17 00:03	1

Client Sample ID: 6MW2405

Date Collected: 07/21/17 12:40
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-7

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	2.0	U	5.0	0.25	ug/L			08/01/17 21:58	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			08/01/17 21:58	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			08/01/17 21:58	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			08/01/17 21:58	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			08/01/17 21:58	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			08/01/17 21:58	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			08/01/17 21:58	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			08/01/17 21:58	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			08/01/17 21:58	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			08/01/17 21:58	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			08/01/17 21:58	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			08/01/17 21:58	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			08/01/17 21:58	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			08/01/17 21:58	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			08/01/17 21:58	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			08/01/17 21:58	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			08/01/17 21:58	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			08/01/17 21:58	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			08/01/17 21:58	1
2-Hexanone	2.0	U Q	20	0.59	ug/L			08/01/17 21:58	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			08/01/17 21:58	1

Client Sample ID: 6MW2405

Date Collected: 07/21/17 12:40
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-7

Matrix: Water

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)	2.0	U	20	0.33	ug/L			08/01/17 21:58	1
Acetone	10	U	20	6.7	ug/L			08/01/17 21:58	1
Benzene	1.0	U	5.0	0.25	ug/L			08/01/17 21:58	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			08/01/17 21:58	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			08/01/17 21:58	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			08/01/17 21:58	1
Bromoform	1.0	U	5.0	0.37	ug/L			08/01/17 21:58	1
Bromomethane	2.0	U	10	0.40	ug/L			08/01/17 21:58	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			08/01/17 21:58	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			08/01/17 21:58	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			08/01/17 21:58	1
Chloroethane	1.0	U	10	0.38	ug/L			08/01/17 21:58	1
Chloroform	**0.29**	**J**	5.0	0.15	ug/L			08/01/17 21:58	1
Chloromethane	2.0	U	10	0.55	ug/L			08/01/17 21:58	1
cis-1,2-Dichloroethene	**4.7**	**J**	5.0	0.16	ug/L			08/01/17 21:58	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			08/01/17 21:58	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			08/01/17 21:58	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			08/01/17 21:58	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			08/01/17 21:58	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			08/01/17 21:58	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			08/01/17 21:58	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			08/01/17 21:58	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			08/01/17 21:58	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			08/01/17 21:58	1
Naphthalene	2.0	U	5.0	0.85	ug/L			08/01/17 21:58	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			08/01/17 21:58	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			08/01/17 21:58	1
o-Xylene	1.0	U	5.0	0.32	ug/L			08/01/17 21:58	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			08/01/17 21:58	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 21:58	1
Styrene	1.0	U	5.0	0.35	ug/L			08/01/17 21:58	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 21:58	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			08/01/17 21:58	1
Toluene	1.0	U	5.0	1.0	ug/L			08/01/17 21:58	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			08/01/17 21:58	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			08/01/17 21:58	1
Trichloroethene	**6.9**		5.0	0.29	ug/L			08/01/17 21:58	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			08/01/17 21:58	1
Vinyl chloride	**1.3**	**J**	5.0	0.43	ug/L			08/01/17 21:58	1
Xylenes (total)	5.0	U	10	0.85	ug/L			08/01/17 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*08/01/17 21:58*	*1*
4-Bromofluorobenzene (Surr)	*87*		*85 - 114*		*08/01/17 21:58*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*08/01/17 21:58*	*1*
Toluene-d8 (Surr)	*93*		*89 - 112*		*08/01/17 21:58*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**5.9**		1.0	0.16	mg/L			07/28/17 00:18	1

Client Sample ID: 6MW2505

Date Collected: 07/21/17 13:40
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-8

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			08/02/17 19:10	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			08/02/17 19:10	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			08/02/17 19:10	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			08/02/17 19:10	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			08/02/17 19:10	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			08/02/17 19:10	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			08/02/17 19:10	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			08/02/17 19:10	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			08/02/17 19:10	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			08/02/17 19:10	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			08/02/17 19:10	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			08/02/17 19:10	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			08/02/17 19:10	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			08/02/17 19:10	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			08/02/17 19:10	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			08/02/17 19:10	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			08/02/17 19:10	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			08/02/17 19:10	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			08/02/17 19:10	1
2-Hexanone	2.0	U Q	20	0.59	ug/L			08/02/17 19:10	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			08/02/17 19:10	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			08/02/17 19:10	1
Acetone	10	U	20	6.7	ug/L			08/02/17 19:10	1
Benzene	1.0	U	5.0	0.25	ug/L			08/02/17 19:10	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			08/02/17 19:10	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			08/02/17 19:10	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			08/02/17 19:10	1
Bromoform	1.0	U	5.0	0.37	ug/L			08/02/17 19:10	1
Bromomethane	2.0	U	10	0.40	ug/L			08/02/17 19:10	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			08/02/17 19:10	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			08/02/17 19:10	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			08/02/17 19:10	1
Chloroethane	1.0	U	10	0.38	ug/L			08/02/17 19:10	1
Chloroform	1.0	U	5.0	0.15	ug/L			08/02/17 19:10	1
Chloromethane	2.0	U	10	0.55	ug/L			08/02/17 19:10	1
cis-1,2-Dichloroethene	**5.8**		5.0	0.16	ug/L			08/02/17 19:10	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			08/02/17 19:10	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			08/02/17 19:10	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			08/02/17 19:10	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			08/02/17 19:10	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			08/02/17 19:10	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			08/02/17 19:10	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			08/02/17 19:10	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			08/02/17 19:10	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			08/02/17 19:10	1
Naphthalene	2.0	U	5.0	0.85	ug/L			08/02/17 19:10	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			08/02/17 19:10	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			08/02/17 19:10	1
o-Xylene	1.0	U	5.0	0.32	ug/L			08/02/17 19:10	1

Client Sample ID: 6MW2505

Date Collected: 07/21/17 13:40
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-8

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			08/02/17 19:10	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/02/17 19:10	1
Styrene	1.0	U	5.0	0.35	ug/L			08/02/17 19:10	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/02/17 19:10	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			08/02/17 19:10	1
Toluene	1.0	U	5.0	1.0	ug/L			08/02/17 19:10	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			08/02/17 19:10	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			08/02/17 19:10	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			08/02/17 19:10	1
Trichlorofluoromethane	2.0	U Q	5.0	0.22	ug/L			08/02/17 19:10	1
Vinyl chloride	**66**		5.0	0.43	ug/L			08/02/17 19:10	1
Xylenes (total)	5.0	U	10	0.85	ug/L			08/02/17 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*81 - 118*		*08/02/17 19:10*	*1*
4-Bromofluorobenzene (Surr)	*88*		*85 - 114*		*08/02/17 19:10*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 119*		*08/02/17 19:10*	*1*
Toluene-d8 (Surr)	*95*		*89 - 112*		*08/02/17 19:10*	*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			07/28/17 09:56	1

Client Sample ID: 6MW2605

Date Collected: 07/21/17 14:30
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-9

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	2.0	U	5.0	0.25	ug/L			08/01/17 22:50	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			08/01/17 22:50	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			08/01/17 22:50	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			08/01/17 22:50	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			08/01/17 22:50	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			08/01/17 22:50	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			08/01/17 22:50	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			08/01/17 22:50	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			08/01/17 22:50	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			08/01/17 22:50	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			08/01/17 22:50	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			08/01/17 22:50	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			08/01/17 22:50	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			08/01/17 22:50	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			08/01/17 22:50	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			08/01/17 22:50	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			08/01/17 22:50	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			08/01/17 22:50	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			08/01/17 22:50	1
2-Hexanone	2.0	U Q	20	0.59	ug/L			08/01/17 22:50	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			08/01/17 22:50	1

Client Sample ID: 6MW2605

Date Collected: 07/21/17 14:30
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-9

Matrix: Water

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)	2.0	U	20	0.33	ug/L			08/01/17 22:50	1
Acetone	10	U	20	6.7	ug/L			08/01/17 22:50	1
Benzene	1.0	U	5.0	0.25	ug/L			08/01/17 22:50	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			08/01/17 22:50	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			08/01/17 22:50	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			08/01/17 22:50	1
Bromoform	1.0	U	5.0	0.37	ug/L			08/01/17 22:50	1
Bromomethane	2.0	U	10	0.40	ug/L			08/01/17 22:50	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			08/01/17 22:50	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			08/01/17 22:50	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			08/01/17 22:50	1
Chloroethane	1.0	U	10	0.38	ug/L			08/01/17 22:50	1
Chloroform	1.0	U	5.0	0.15	ug/L			08/01/17 22:50	1
Chloromethane	2.0	U	10	0.55	ug/L			08/01/17 22:50	1
cis-1,2-Dichloroethene	**2.4**	**J**	5.0	0.16	ug/L			08/01/17 22:50	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			08/01/17 22:50	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			08/01/17 22:50	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			08/01/17 22:50	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			08/01/17 22:50	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			08/01/17 22:50	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			08/01/17 22:50	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			08/01/17 22:50	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			08/01/17 22:50	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			08/01/17 22:50	1
Naphthalene	2.0	U	5.0	0.85	ug/L			08/01/17 22:50	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			08/01/17 22:50	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			08/01/17 22:50	1
o-Xylene	1.0	U	5.0	0.32	ug/L			08/01/17 22:50	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			08/01/17 22:50	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 22:50	1
Styrene	1.0	U	5.0	0.35	ug/L			08/01/17 22:50	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 22:50	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			08/01/17 22:50	1
Toluene	1.0	U	5.0	1.0	ug/L			08/01/17 22:50	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			08/01/17 22:50	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			08/01/17 22:50	1
Trichloroethene	**0.60**	**J**	5.0	0.29	ug/L			08/01/17 22:50	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			08/01/17 22:50	1
Vinyl chloride	**1.8**	**J**	5.0	0.43	ug/L			08/01/17 22:50	1
Xylenes (total)	5.0	U	10	0.85	ug/L			08/01/17 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*81 - 118*		*08/01/17 22:50*	*1*
4-Bromofluorobenzene (Surr)	*85*		*85 - 114*		*08/01/17 22:50*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 119*		*08/01/17 22:50*	*1*
Toluene-d8 (Surr)	*92*		*89 - 112*		*08/01/17 22:50*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**5.4**		1.0	0.16	mg/L			07/28/17 15:57	1

Client Sample ID: TB06

Date Collected: 07/21/17 14:45
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-10

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	2.0	U	5.0	0.25	ug/L			08/01/17 18:16	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			08/01/17 18:16	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			08/01/17 18:16	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			08/01/17 18:16	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			08/01/17 18:16	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			08/01/17 18:16	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			08/01/17 18:16	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			08/01/17 18:16	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			08/01/17 18:16	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			08/01/17 18:16	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			08/01/17 18:16	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			08/01/17 18:16	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			08/01/17 18:16	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			08/01/17 18:16	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			08/01/17 18:16	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			08/01/17 18:16	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			08/01/17 18:16	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			08/01/17 18:16	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			08/01/17 18:16	1
2-Hexanone	2.0	U Q	20	0.59	ug/L			08/01/17 18:16	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			08/01/17 18:16	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			08/01/17 18:16	1
Acetone	10	U	20	6.7	ug/L			08/01/17 18:16	1
Benzene	1.0	U	5.0	0.25	ug/L			08/01/17 18:16	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			08/01/17 18:16	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			08/01/17 18:16	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			08/01/17 18:16	1
Bromoform	1.0	U	5.0	0.37	ug/L			08/01/17 18:16	1
Bromomethane	2.0	U	10	0.40	ug/L			08/01/17 18:16	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			08/01/17 18:16	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			08/01/17 18:16	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			08/01/17 18:16	1
Chloroethane	1.0	U	10	0.38	ug/L			08/01/17 18:16	1
Chloroform	**0.42**	**J**	5.0	0.15	ug/L			08/01/17 18:16	1
Chloromethane	2.0	U	10	0.55	ug/L			08/01/17 18:16	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			08/01/17 18:16	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			08/01/17 18:16	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			08/01/17 18:16	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			08/01/17 18:16	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			08/01/17 18:16	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			08/01/17 18:16	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			08/01/17 18:16	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			08/01/17 18:16	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			08/01/17 18:16	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			08/01/17 18:16	1
Naphthalene	2.0	U	5.0	0.85	ug/L			08/01/17 18:16	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			08/01/17 18:16	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			08/01/17 18:16	1
o-Xylene	1.0	U	5.0	0.32	ug/L			08/01/17 18:16	1

Client Sample ID: TB06

Date Collected: 07/21/17 14:45
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-10

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			08/01/17 18:16	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 18:16	1
Styrene	1.0	U	5.0	0.35	ug/L			08/01/17 18:16	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 18:16	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			08/01/17 18:16	1
Toluene	**1.2**	**J**	5.0	1.0	ug/L			08/01/17 18:16	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			08/01/17 18:16	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			08/01/17 18:16	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			08/01/17 18:16	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			08/01/17 18:16	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			08/01/17 18:16	1
Xylenes (total)	5.0	U	10	0.85	ug/L			08/01/17 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*08/01/17 18:16*	*1*
4-Bromofluorobenzene (Surr)	*88*		*85 - 114*		*08/01/17 18:16*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 119*		*08/01/17 18:16*	*1*
Toluene-d8 (Surr)	*96*		*89 - 112*		*08/01/17 18:16*	*1*

Client Sample ID: FB02

Date Collected: 07/21/17 14:50
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-11

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	2.0	U	5.0	0.25	ug/L			08/01/17 18:55	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			08/01/17 18:55	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			08/01/17 18:55	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			08/01/17 18:55	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			08/01/17 18:55	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			08/01/17 18:55	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			08/01/17 18:55	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			08/01/17 18:55	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			08/01/17 18:55	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			08/01/17 18:55	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			08/01/17 18:55	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			08/01/17 18:55	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			08/01/17 18:55	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			08/01/17 18:55	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			08/01/17 18:55	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			08/01/17 18:55	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			08/01/17 18:55	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			08/01/17 18:55	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			08/01/17 18:55	1
2-Hexanone	2.0	U Q	20	0.59	ug/L			08/01/17 18:55	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			08/01/17 18:55	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			08/01/17 18:55	1
Acetone	10	U	20	6.7	ug/L			08/01/17 18:55	1
Benzene	1.0	U	5.0	0.25	ug/L			08/01/17 18:55	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			08/01/17 18:55	1

Client Sample ID: FB02

Date Collected: 07/21/17 14:50
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-11

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	2.0	U	5.0	0.55	ug/L			08/01/17 18:55	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			08/01/17 18:55	1
Bromoform	1.0	U	5.0	0.37	ug/L			08/01/17 18:55	1
Bromomethane	2.0	U	10	0.40	ug/L			08/01/17 18:55	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			08/01/17 18:55	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			08/01/17 18:55	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			08/01/17 18:55	1
Chloroethane	1.0	U	10	0.38	ug/L			08/01/17 18:55	1
Chloroform	**0.29**	**J**	5.0	0.15	ug/L			08/01/17 18:55	1
Chloromethane	2.0	U	10	0.55	ug/L			08/01/17 18:55	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			08/01/17 18:55	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			08/01/17 18:55	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			08/01/17 18:55	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			08/01/17 18:55	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			08/01/17 18:55	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			08/01/17 18:55	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			08/01/17 18:55	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			08/01/17 18:55	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			08/01/17 18:55	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			08/01/17 18:55	1
Naphthalene	2.0	U	5.0	0.85	ug/L			08/01/17 18:55	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			08/01/17 18:55	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			08/01/17 18:55	1
o-Xylene	1.0	U	5.0	0.32	ug/L			08/01/17 18:55	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			08/01/17 18:55	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 18:55	1
Styrene	1.0	U	5.0	0.35	ug/L			08/01/17 18:55	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 18:55	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			08/01/17 18:55	1
Toluene	**1.3**	**J**	5.0	1.0	ug/L			08/01/17 18:55	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			08/01/17 18:55	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			08/01/17 18:55	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			08/01/17 18:55	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			08/01/17 18:55	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			08/01/17 18:55	1
Xylenes (total)	5.0	U	10	0.85	ug/L			08/01/17 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*81 - 118*		*08/01/17 18:55*	*1*
4-Bromofluorobenzene (Surr)	*90*		*85 - 114*		*08/01/17 18:55*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 119*		*08/01/17 18:55*	*1*
Toluene-d8 (Surr)	*96*		*89 - 112*		*08/01/17 18:55*	*1*

Client Sample ID: 6MW2005D

Date Collected: 07/21/17 09:35
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-13

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	2.0	U	5.0	0.25	ug/L			08/01/17 23:26	1

Client Sample ID: 6MW2005D

Date Collected: 07/21/17 09:35
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-13

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	1.0	U Q	5.0	0.29	ug/L			08/01/17 23:26	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			08/01/17 23:26	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			08/01/17 23:26	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			08/01/17 23:26	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			08/01/17 23:26	1
1,1-Dichloropropene	1.0	U Q	5.0	0.30	ug/L			08/01/17 23:26	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			08/01/17 23:26	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			08/01/17 23:26	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			08/01/17 23:26	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			08/01/17 23:26	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			08/01/17 23:26	1
1,2-Dichloroethane	1.0	U Q	5.0	0.37	ug/L			08/01/17 23:26	1
1,2-Dichloropropane	1.0	U Q	5.0	0.32	ug/L			08/01/17 23:26	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			08/01/17 23:26	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			08/01/17 23:26	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			08/01/17 23:26	1
2-Butanone (MEK)	5.0	U Q	20	0.39	ug/L			08/01/17 23:26	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			08/01/17 23:26	1
2-Hexanone	2.0	U Q	20	0.59	ug/L			08/01/17 23:26	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			08/01/17 23:26	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			08/01/17 23:26	1
Acetone	10	U	20	6.7	ug/L			08/01/17 23:26	1
Benzene	1.0	U Q	5.0	0.25	ug/L			08/01/17 23:26	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			08/01/17 23:26	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			08/01/17 23:26	1
Bromodichloromethane	2.0	U Q	5.0	0.25	ug/L			08/01/17 23:26	1
Bromoform	1.0	U	5.0	0.37	ug/L			08/01/17 23:26	1
Bromomethane	2.0	U	10	0.40	ug/L			08/01/17 23:26	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			08/01/17 23:26	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			08/01/17 23:26	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			08/01/17 23:26	1
Chloroethane	1.0	U	10	0.38	ug/L			08/01/17 23:26	1
Chloroform	1.0	U	5.0	0.15	ug/L			08/01/17 23:26	1
Chloromethane	2.0	U	10	0.55	ug/L			08/01/17 23:26	1
cis-1,2-Dichloroethene	**0.40**	**J**	5.0	0.16	ug/L			08/01/17 23:26	1
cis-1,3-Dichloropropene	1.0	U Q	5.0	0.34	ug/L			08/01/17 23:26	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			08/01/17 23:26	1
Dibromomethane	2.0	U Q	5.0	0.41	ug/L			08/01/17 23:26	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			08/01/17 23:26	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			08/01/17 23:26	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			08/01/17 23:26	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			08/01/17 23:26	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			08/01/17 23:26	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			08/01/17 23:26	1
Naphthalene	2.0	U	5.0	0.85	ug/L			08/01/17 23:26	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			08/01/17 23:26	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			08/01/17 23:26	1
o-Xylene	1.0	U	5.0	0.32	ug/L			08/01/17 23:26	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			08/01/17 23:26	1

Client Sample ID: 6MW2005D

Date Collected: 07/21/17 09:35
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-13

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 23:26	1
Styrene	1.0	U	5.0	0.35	ug/L			08/01/17 23:26	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 23:26	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			08/01/17 23:26	1
Toluene	1.0	U	5.0	1.0	ug/L			08/01/17 23:26	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			08/01/17 23:26	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			08/01/17 23:26	1
Trichloroethene	1.0	U Q	5.0	0.29	ug/L			08/01/17 23:26	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			08/01/17 23:26	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			08/01/17 23:26	1
Xylenes (total)	5.0	U	10	0.85	ug/L			08/01/17 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*	Q	*81 - 118*		*08/01/17 23:26*	*1*
4-Bromofluorobenzene (Surr)	*90*		*85 - 114*		*08/01/17 23:26*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 119*		*08/01/17 23:26*	*1*
Toluene-d8 (Surr)	*98*		*89 - 112*		*08/01/17 23:26*	*1*

Default Detection Limits

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-99527-1

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

Analyte	LOQ	DL	Units	Method
1,1,1,2-Tetrachloroethane	5.0	0.25	ug/L	8260C DOD
1,1,1-Trichloroethane	5.0	0.29	ug/L	8260C DOD
1,1,2,2-Tetrachloroethane	5.0	0.43	ug/L	8260C DOD
1,1,2-Trichloroethane	5.0	0.57	ug/L	8260C DOD
1,1-Dichloroethane	5.0	0.39	ug/L	8260C DOD
1,1-Dichloroethene	5.0	0.37	ug/L	8260C DOD
1,1-Dichloropropene	5.0	0.30	ug/L	8260C DOD
1,2,3-Trichlorobenzene	5.0	0.65	ug/L	8260C DOD
1,2,3-Trichloropropane	5.0	0.56	ug/L	8260C DOD
1,2,4-Trimethylbenzene	5.0	0.40	ug/L	8260C DOD
1,2-Dibromo-3-Chloropropane	10	1.2	ug/L	8260C DOD
1,2-Dibromoethane	5.0	0.44	ug/L	8260C DOD
1,2-Dichloroethane	5.0	0.37	ug/L	8260C DOD
1,2-Dichloropropane	5.0	0.32	ug/L	8260C DOD
1,3,5-Trimethylbenzene	5.0	0.28	ug/L	8260C DOD
1,3-Dichloropropane	5.0	0.24	ug/L	8260C DOD
2,2-Dichloropropane	5.0	0.54	ug/L	8260C DOD
2-Butanone (MEK)	20	0.39	ug/L	8260C DOD
2-Chlorotoluene	5.0	0.34	ug/L	8260C DOD
2-Hexanone	20	0.59	ug/L	8260C DOD
4-Chlorotoluene	5.0	0.31	ug/L	8260C DOD
4-Methyl-2-pentanone (MIBK)	20	0.33	ug/L	8260C DOD
Acetone	20	6.7	ug/L	8260C DOD
Benzene	5.0	0.25	ug/L	8260C DOD
Bromobenzene	5.0	0.33	ug/L	8260C DOD
Bromochloromethane	5.0	0.55	ug/L	8260C DOD
Bromodichloromethane	5.0	0.25	ug/L	8260C DOD
Bromoform	5.0	0.37	ug/L	8260C DOD
Bromomethane	10	0.40	ug/L	8260C DOD
Carbon disulfide	5.0	0.37	ug/L	8260C DOD
Carbon tetrachloride	5.0	0.36	ug/L	8260C DOD
Chlorobenzene	5.0	0.38	ug/L	8260C DOD
Chloroethane	10	0.38	ug/L	8260C DOD
Chloroform	5.0	0.15	ug/L	8260C DOD
Chloromethane	10	0.55	ug/L	8260C DOD
cis-1,2-Dichloroethene	5.0	0.16	ug/L	8260C DOD
cis-1,3-Dichloropropene	5.0	0.34	ug/L	8260C DOD
Dibromochloromethane	5.0	0.33	ug/L	8260C DOD
Dibromomethane	5.0	0.41	ug/L	8260C DOD
Dichlorodifluoromethane	10	0.45	ug/L	8260C DOD
Ethylbenzene	5.0	0.30	ug/L	8260C DOD
Isopropylbenzene	5.0	0.26	ug/L	8260C DOD
m,p-Xylenes	5.0	0.57	ug/L	8260C DOD
Methyl tert-butyl ether	5.0	0.40	ug/L	8260C DOD
Methylene Chloride	7.5	1.7	ug/L	8260C DOD
Naphthalene	5.0	0.85	ug/L	8260C DOD
n-Butylbenzene	5.0	0.23	ug/L	8260C DOD
N-Propylbenzene	5.0	0.30	ug/L	8260C DOD
o-Xylene	5.0	0.32	ug/L	8260C DOD
p-Isopropyltoluene	5.0	0.32	ug/L	8260C DOD
sec-Butylbenzene	5.0	0.31	ug/L	8260C DOD
Styrene	5.0	0.35	ug/L	8260C DOD

Default Detection Limits

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-99527-1

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

Analyte	LOQ	DL	Units	Method
tert-Butylbenzene	5.0	0.31	ug/L	8260C DOD
Tetrachloroethene	5.0	0.28	ug/L	8260C DOD
Toluene	5.0	1.0	ug/L	8260C DOD
trans-1,2-Dichloroethene	5.0	0.18	ug/L	8260C DOD
trans-1,3-Dichloropropene	5.0	0.35	ug/L	8260C DOD
Trichloroethene	5.0	0.29	ug/L	8260C DOD
Trichlorofluoromethane	5.0	0.22	ug/L	8260C DOD
Vinyl chloride	5.0	0.43	ug/L	8260C DOD
Xylenes (total)	10	0.85	ug/L	8260C DOD

General Chemistry

Analyte	LOQ	DL	Units	Method
Total Organic Carbon - Quad	1.0	0.16	mg/L	9060A

Surrogate Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-99527-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
280-99527-1	6MW2005	114	86	109	95
280-99527-1 MS	6MW2005MS	106	92	104	96
280-99527-1 MSD	6MW2005MSD	106	91	105	95
280-99527-5	6MW2205	121 Q	89	112	92
280-99527-6	6MW2305	113	88	110	95
280-99527-7	6MW2405	111	87	108	93
280-99527-8 - RA	6MW2505	118	88	113	95
280-99527-9	6MW2605	110	85	104	92
280-99527-10	TB06	111	88	106	96
280-99527-11	FB02	110	90	104	96
280-99527-13	6MW2005D	119 Q	90	113	98
LCS 160-320257/4	Lab Control Sample	98	91	98	95
LCS 160-320393/4	Lab Control Sample	100	92	101	96
LCSD 160-320393/5	Lab Control Sample Dup	104	93	102	98
MB 160-320257/6	Method Blank	108	90	105	92
MB 160-320393/7	Method Blank	108	88	104	93

Surrogate Legend

12DCE = 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 160-320257/6
Matrix: Water
Analysis Batch: 320257

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			08/01/17 17:50	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			08/01/17 17:50	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			08/01/17 17:50	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			08/01/17 17:50	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			08/01/17 17:50	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			08/01/17 17:50	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			08/01/17 17:50	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			08/01/17 17:50	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			08/01/17 17:50	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			08/01/17 17:50	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			08/01/17 17:50	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			08/01/17 17:50	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			08/01/17 17:50	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			08/01/17 17:50	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			08/01/17 17:50	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			08/01/17 17:50	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			08/01/17 17:50	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			08/01/17 17:50	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			08/01/17 17:50	1
2-Hexanone	2.0	U	20	0.59	ug/L			08/01/17 17:50	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			08/01/17 17:50	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			08/01/17 17:50	1
Acetone	10	U	20	6.7	ug/L			08/01/17 17:50	1
Benzene	1.0	U	5.0	0.25	ug/L			08/01/17 17:50	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			08/01/17 17:50	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			08/01/17 17:50	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			08/01/17 17:50	1
Bromoform	1.0	U	5.0	0.37	ug/L			08/01/17 17:50	1
Bromomethane	2.0	U	10	0.40	ug/L			08/01/17 17:50	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			08/01/17 17:50	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			08/01/17 17:50	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			08/01/17 17:50	1
Chloroethane	1.0	U	10	0.38	ug/L			08/01/17 17:50	1
Chloroform	1.0	U	5.0	0.15	ug/L			08/01/17 17:50	1
Chloromethane	2.0	U	10	0.55	ug/L			08/01/17 17:50	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			08/01/17 17:50	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			08/01/17 17:50	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			08/01/17 17:50	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			08/01/17 17:50	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			08/01/17 17:50	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			08/01/17 17:50	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			08/01/17 17:50	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			08/01/17 17:50	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			08/01/17 17:50	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			08/01/17 17:50	1
Naphthalene	2.0	U	5.0	0.85	ug/L			08/01/17 17:50	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			08/01/17 17:50	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			08/01/17 17:50	1

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

Lab Sample ID: MB 160-320257/6
Matrix: Water
Analysis Batch: 320257

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1.0	U	5.0	0.32	ug/L			08/01/17 17:50	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			08/01/17 17:50	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 17:50	1
Styrene	1.0	U	5.0	0.35	ug/L			08/01/17 17:50	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/01/17 17:50	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			08/01/17 17:50	1
Toluene	1.0	U	5.0	1.0	ug/L			08/01/17 17:50	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			08/01/17 17:50	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			08/01/17 17:50	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			08/01/17 17:50	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			08/01/17 17:50	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			08/01/17 17:50	1
Xylenes (total)	5.0	U	10	0.85	ug/L			08/01/17 17:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*81 - 118*		*08/01/17 17:50*	*1*
4-Bromofluorobenzene (Surr)	*90*		*85 - 114*		*08/01/17 17:50*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 119*		*08/01/17 17:50*	*1*
Toluene-d8 (Surr)	*92*		*89 - 112*		*08/01/17 17:50*	*1*

Lab Sample ID: LCS 160-320257/4
Matrix: Water
Analysis Batch: 320257

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	47.4		ug/L		95	78 - 124
1,1,1-Trichloroethane	50.0	47.9		ug/L		96	74 - 131
1,1,2,2-Tetrachloroethane	50.0	42.6		ug/L		85	71 - 121
1,1,2-Trichloroethane	50.0	43.2		ug/L		86	80 - 119
1,1-Dichloroethane	50.0	45.8		ug/L		92	77 - 125
1,1-Dichloroethene	50.0	47.4		ug/L		95	71 - 131
1,1-Dichloropropene	50.0	46.5		ug/L		93	79 - 125
1,2,3-Trichlorobenzene	50.0	50.1		ug/L		100	69 - 129
1,2,3-Trichloropropane	50.0	43.3		ug/L		87	73 - 122
1,2,4-Trimethylbenzene	50.0	48.2		ug/L		96	76 - 124
1,2-Dibromo-3-Chloropropane	50.0	40.4		ug/L		81	62 - 128
1,2-Dibromoethane	50.0	43.2		ug/L		86	80 - 120
1,2-Dichloroethane	50.0	46.7		ug/L		93	73 - 128
1,2-Dichloropropane	50.0	47.1		ug/L		94	78 - 122
1,3,5-Trimethylbenzene	50.0	48.3		ug/L		97	75 - 124
1,3-Dichloropropane	50.0	45.4		ug/L		91	80 - 119
2,2-Dichloropropane	50.0	49.6		ug/L		99	60 - 139
2-Butanone (MEK)	50.0	46.3		ug/L		93	56 - 143
2-Chlorotoluene	50.0	47.2		ug/L		94	79 - 122
2-Hexanone	50.0	40.1		ug/L		80	57 - 139
4-Chlorotoluene	50.0	47.4		ug/L		95	78 - 122
4-Methyl-2-pentanone (MIBK)	50.0	47.6		ug/L		95	67 - 130
Acetone	50.0	39.7		ug/L		79	39 - 160

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

Lab Sample ID: LCS 160-320257/4
Matrix: Water
Analysis Batch: 320257

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	44.0		ug/L		88	79 - 120
Bromobenzene	50.0	49.3		ug/L		99	80 - 120
Bromochloromethane	50.0	50.0		ug/L		100	78 - 123
Bromodichloromethane	50.0	49.5		ug/L		99	79 - 125
Bromoform	50.0	48.1		ug/L		96	66 - 130
Bromomethane	50.0	56.2		ug/L		112	53 - 141
Carbon disulfide	50.0	47.5		ug/L		95	64 - 133
Carbon tetrachloride	50.0	48.0		ug/L		96	72 - 136
Chlorobenzene	50.0	45.8		ug/L		92	82 - 118
Chloroethane	50.0	46.5		ug/L		93	60 - 138
Chloroform	50.0	46.1		ug/L		92	79 - 124
Chloromethane	50.0	49.8		ug/L		100	50 - 139
cis-1,2-Dichloroethene	50.0	47.4		ug/L		95	78 - 123
cis-1,3-Dichloropropene	50.0	52.3		ug/L		105	75 - 124
Dibromochloromethane	50.0	49.0		ug/L		98	74 - 126
Dibromomethane	50.0	48.8		ug/L		98	79 - 123
Dichlorodifluoromethane	50.0	51.9		ug/L		104	32 - 152
Ethylbenzene	50.0	44.5		ug/L		89	79 - 121
Isopropylbenzene	50.0	48.2		ug/L		96	72 - 131
m,p-Xylenes	50.0	47.6		ug/L		95	80 - 121
Methyl tert-butyl ether	50.0	47.5		ug/L		95	71 - 124
Methylene Chloride	50.0	45.3		ug/L		91	74 - 124
Naphthalene	50.0	46.6		ug/L		93	61 - 128
n-Butylbenzene	50.0	51.7		ug/L		103	75 - 128
N-Propylbenzene	50.0	48.0		ug/L		96	76 - 126
o-Xylene	50.0	48.0		ug/L		96	78 - 122
p-Isopropyltoluene	50.0	49.5		ug/L		99	77 - 127
sec-Butylbenzene	50.0	47.6		ug/L		95	77 - 126
Styrene	50.0	48.7		ug/L		97	78 - 123
tert-Butylbenzene	50.0	47.8		ug/L		96	78 - 124
Tetrachloroethene	50.0	47.9		ug/L		96	74 - 129
Toluene	50.0	45.8		ug/L		92	80 - 121
trans-1,2-Dichloroethene	50.0	47.4		ug/L		95	75 - 124
trans-1,3-Dichloropropene	50.0	50.3		ug/L		101	73 - 127
Trichloroethene	50.0	44.1		ug/L		88	79 - 123
Trichlorofluoromethane	50.0	59.1		ug/L		118	65 - 141
Vinyl chloride	50.0	49.8		ug/L		100	58 - 137
Xylenes (total)	100	95.6		ug/L		96	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*
4-Bromofluorobenzene (Surr)	*91*		*85 - 114*
Dibromofluoromethane (Surr)	*98*		*80 - 119*
Toluene-d8 (Surr)	*95*		*89 - 112*

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

Lab Sample ID: 280-99527-1 MS
Matrix: Water
Analysis Batch: 320257

Client Sample ID: 6MW2005MS
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	2.0	U	50.0	50.0		ug/L		100	78 - 124
1,1,1-Trichloroethane	1.0	U	50.0	50.6		ug/L		101	74 - 131
1,1,2,2-Tetrachloroethane	2.0	U	50.0	44.9		ug/L		90	71 - 121
1,1,2-Trichloroethane	1.0	U	50.0	46.0		ug/L		92	80 - 119
1,1-Dichloroethane	1.0	U	50.0	49.1		ug/L		98	77 - 125
1,1-Dichloroethene	1.0	U	50.0	50.1		ug/L		100	71 - 131
1,1-Dichloropropene	1.0	U	50.0	49.1		ug/L		98	79 - 125
1,2,3-Trichlorobenzene	2.0	U	50.0	52.2		ug/L		104	69 - 129
1,2,3-Trichloropropane	1.0	U	50.0	46.1		ug/L		92	73 - 122
1,2,4-Trimethylbenzene	2.0	U	50.0	50.1		ug/L		100	76 - 124
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	44.9		ug/L		90	62 - 128
1,2-Dibromoethane	2.0	U	50.0	44.7		ug/L		89	80 - 120
1,2-Dichloroethane	1.0	U	50.0	50.8		ug/L		102	73 - 128
1,2-Dichloropropane	1.0	U	50.0	50.5		ug/L		101	78 - 122
1,3,5-Trimethylbenzene	2.0	U	50.0	49.8		ug/L		100	75 - 124
1,3-Dichloropropane	1.0	U	50.0	47.2		ug/L		94	80 - 119
2,2-Dichloropropane	2.0	U	50.0	51.8		ug/L		104	60 - 139
2-Butanone (MEK)	5.0	U	50.0	49.6		ug/L		99	56 - 143
2-Chlorotoluene	2.0	U	50.0	48.8		ug/L		98	79 - 122
2-Hexanone	2.0	U Q	50.0	41.4		ug/L		83	57 - 139
4-Chlorotoluene	2.0	U	50.0	49.0		ug/L		98	78 - 122
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	49.1		ug/L		98	67 - 130
Acetone	10	U	50.0	48.0		ug/L		96	39 - 160
Benzene	1.0	U	50.0	48.1		ug/L		96	79 - 120
Bromobenzene	2.0	U	50.0	51.2		ug/L		102	80 - 120
Bromochloromethane	2.0	U	50.0	54.4		ug/L		109	78 - 123
Bromodichloromethane	2.0	U	50.0	53.3		ug/L		107	79 - 125
Bromoform	1.0	U	50.0	49.1		ug/L		98	66 - 130
Bromomethane	2.0	U	50.0	56.8		ug/L		114	53 - 141
Carbon disulfide	1.0	U	50.0	51.3		ug/L		103	64 - 133
Carbon tetrachloride	1.0	U	50.0	50.1		ug/L		100	72 - 136
Chlorobenzene	1.0	U	50.0	49.1		ug/L		98	82 - 118
Chloroethane	1.0	U	50.0	48.7		ug/L		97	60 - 138
Chloroform	1.0	U	50.0	49.0		ug/L		98	79 - 124
Chloromethane	2.0	U	50.0	43.7		ug/L		87	50 - 139
cis-1,2-Dichloroethene	0.46	J	50.0	51.2		ug/L		101	78 - 123
cis-1,3-Dichloropropene	1.0	U	50.0	54.9		ug/L		110	75 - 124
Dibromochloromethane	1.0	U	50.0	51.0		ug/L		102	74 - 126
Dibromomethane	2.0	U	50.0	52.4		ug/L		105	79 - 123
Dichlorodifluoromethane	2.0	U	50.0	52.3		ug/L		105	32 - 152
Ethylbenzene	1.0	U	50.0	48.4		ug/L		97	79 - 121
Isopropylbenzene	2.0	U	50.0	49.0		ug/L		98	72 - 131
m,p-Xylenes	1.0	U	50.0	50.0		ug/L		100	80 - 121
Methyl tert-butyl ether	2.0	U	50.0	49.8		ug/L		100	71 - 124
Methylene Chloride	5.0	U	50.0	48.0		ug/L		96	74 - 124
Naphthalene	2.0	U	50.0	49.6		ug/L		99	61 - 128
n-Butylbenzene	2.0	U	50.0	54.3		ug/L		109	75 - 128
N-Propylbenzene	2.0	U	50.0	48.9		ug/L		98	76 - 126

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

Lab Sample ID: 280-99527-1 MS
Matrix: Water
Analysis Batch: 320257

Client Sample ID: 6MW2005MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	1.0	U	50.0	50.7		ug/L		101	78 - 122
p-Isopropyltoluene	2.0	U	50.0	50.7		ug/L		101	77 - 127
sec-Butylbenzene	2.0	U	50.0	49.5		ug/L		99	77 - 126
Styrene	1.0	U	50.0	51.2		ug/L		102	78 - 123
tert-Butylbenzene	2.0	U	50.0	49.4		ug/L		99	78 - 124
Tetrachloroethene	1.0	U	50.0	48.9		ug/L		98	74 - 129
Toluene	1.0	U	50.0	47.9		ug/L		96	80 - 121
trans-1,2-Dichloroethene	1.0	U	50.0	49.4		ug/L		99	75 - 124
trans-1,3-Dichloropropene	1.0	U	50.0	51.9		ug/L		104	73 - 127
Trichloroethene	1.0	U	50.0	47.6		ug/L		95	79 - 123
Trichlorofluoromethane	2.0	U	50.0	60.9		ug/L		122	65 - 141
Vinyl chloride	1.0	U	50.0	48.7		ug/L		97	58 - 137
Xylenes (total)	5.0	U	100	101		ug/L		101	79 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*81 - 118*
4-Bromofluorobenzene (Surr)	*92*		*85 - 114*
Dibromofluoromethane (Surr)	*104*		*80 - 119*
Toluene-d8 (Surr)	*96*		*89 - 112*

Lab Sample ID: 280-99527-1 MSD
Matrix: Water
Analysis Batch: 320257

Client Sample ID: 6MW2005MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	2.0	U	50.0	48.9		ug/L		98	78 - 124	2	20
1,1,1-Trichloroethane	1.0	U	50.0	49.3		ug/L		99	74 - 131	3	20
1,1,2,2-Tetrachloroethane	2.0	U	50.0	43.7		ug/L		87	71 - 121	3	20
1,1,2-Trichloroethane	1.0	U	50.0	44.5		ug/L		89	80 - 119	3	20
1,1-Dichloroethane	1.0	U	50.0	47.2		ug/L		94	77 - 125	4	20
1,1-Dichloroethene	1.0	U	50.0	47.7		ug/L		95	71 - 131	5	20
1,1-Dichloropropene	1.0	U	50.0	47.6		ug/L		95	79 - 125	3	20
1,2,3-Trichlorobenzene	2.0	U	50.0	51.3		ug/L		103	69 - 129	2	20
1,2,3-Trichloropropane	1.0	U	50.0	43.9		ug/L		88	73 - 122	5	20
1,2,4-Trimethylbenzene	2.0	U	50.0	46.9		ug/L		94	76 - 124	7	20
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	43.3		ug/L		87	62 - 128	4	20
1,2-Dibromoethane	2.0	U	50.0	43.9		ug/L		88	80 - 120	2	20
1,2-Dichloroethane	1.0	U	50.0	50.5		ug/L		101	73 - 128	1	20
1,2-Dichloropropane	1.0	U	50.0	49.6		ug/L		99	78 - 122	2	20
1,3,5-Trimethylbenzene	2.0	U	50.0	46.7		ug/L		93	75 - 124	6	20
1,3-Dichloropropane	1.0	U	50.0	46.6		ug/L		93	80 - 119	1	20
2,2-Dichloropropane	2.0	U	50.0	50.8		ug/L		102	60 - 139	2	20
2-Butanone (MEK)	5.0	U	50.0	49.7		ug/L		99	56 - 143	0	20
2-Chlorotoluene	2.0	U	50.0	45.5		ug/L		91	79 - 122	7	20
2-Hexanone	2.0	U Q	50.0	42.8		ug/L		86	57 - 139	3	20
4-Chlorotoluene	2.0	U	50.0	45.5		ug/L		91	78 - 122	7	20
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	49.3		ug/L		99	67 - 130	0	20
Acetone	10	U	50.0	46.7		ug/L		93	39 - 160	3	20

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

Lab Sample ID: 280-99527-1 MSD
Matrix: Water
Analysis Batch: 320257

Client Sample ID: 6MW2005MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	1.0	U	50.0	46.4		ug/L		93	79 - 120	3	20
Bromobenzene	2.0	U	50.0	48.3		ug/L		97	80 - 120	6	20
Bromochloromethane	2.0	U	50.0	52.9		ug/L		106	78 - 123	3	20
Bromodichloromethane	2.0	U	50.0	52.1		ug/L		104	79 - 125	2	20
Bromoform	1.0	U	50.0	47.6		ug/L		95	66 - 130	3	20
Bromomethane	2.0	U	50.0	54.1		ug/L		108	53 - 141	5	20
Carbon disulfide	1.0	U	50.0	49.8		ug/L		100	64 - 133	3	20
Carbon tetrachloride	1.0	U	50.0	49.2		ug/L		98	72 - 136	2	20
Chlorobenzene	1.0	U	50.0	46.6		ug/L		93	82 - 118	5	20
Chloroethane	1.0	U	50.0	47.0		ug/L		94	60 - 138	4	20
Chloroform	1.0	U	50.0	47.9		ug/L		96	79 - 124	2	20
Chloromethane	2.0	U	50.0	42.3		ug/L		85	50 - 139	3	20
cis-1,2-Dichloroethene	0.46	J	50.0	50.1		ug/L		99	78 - 123	2	20
cis-1,3-Dichloropropene	1.0	U	50.0	52.4		ug/L		105	75 - 124	5	20
Dibromochloromethane	1.0	U	50.0	49.9		ug/L		100	74 - 126	2	20
Dibromomethane	2.0	U	50.0	52.2		ug/L		104	79 - 123	0	20
Dichlorodifluoromethane	2.0	U	50.0	52.1		ug/L		104	32 - 152	0	20
Ethylbenzene	1.0	U	50.0	46.1		ug/L		92	79 - 121	5	20
Isopropylbenzene	2.0	U	50.0	46.2		ug/L		92	72 - 131	6	20
m,p-Xylenes	1.0	U	50.0	47.5		ug/L		95	80 - 121	5	20
Methyl tert-butyl ether	2.0	U	50.0	50.1		ug/L		100	71 - 124	1	20
Methylene Chloride	5.0	U	50.0	47.6		ug/L		95	74 - 124	1	20
Naphthalene	2.0	U	50.0	49.8		ug/L		100	61 - 128	0	20
n-Butylbenzene	2.0	U	50.0	51.2		ug/L		102	75 - 128	6	20
N-Propylbenzene	2.0	U	50.0	46.2		ug/L		92	76 - 126	6	20
o-Xylene	1.0	U	50.0	48.5		ug/L		97	78 - 122	4	20
p-Isopropyltoluene	2.0	U	50.0	49.2		ug/L		98	77 - 127	3	20
sec-Butylbenzene	2.0	U	50.0	46.5		ug/L		93	77 - 126	6	20
Styrene	1.0	U	50.0	49.8		ug/L		100	78 - 123	3	20
tert-Butylbenzene	2.0	U	50.0	46.4		ug/L		93	78 - 124	6	20
Tetrachloroethene	1.0	U	50.0	46.4		ug/L		93	74 - 129	5	20
Toluene	1.0	U	50.0	46.2		ug/L		92	80 - 121	4	20
trans-1,2-Dichloroethene	1.0	U	50.0	48.0		ug/L		96	75 - 124	3	20
trans-1,3-Dichloropropene	1.0	U	50.0	50.0		ug/L		100	73 - 127	4	20
Trichloroethene	1.0	U	50.0	46.4		ug/L		93	79 - 123	3	20
Trichlorofluoromethane	2.0	U	50.0	58.4		ug/L		117	65 - 141	4	20
Vinyl chloride	1.0	U	50.0	45.8		ug/L		92	58 - 137	6	20
Xylenes (total)	5.0	U	100	96.0		ug/L		96	79 - 121	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*81 - 118*
4-Bromofluorobenzene (Surr)	*91*		*85 - 114*
Dibromofluoromethane (Surr)	*105*		*80 - 119*
Toluene-d8 (Surr)	*95*		*89 - 112*

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

Lab Sample ID: MB 160-320393/7
Matrix: Water
Analysis Batch: 320393

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			08/02/17 18:45	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			08/02/17 18:45	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			08/02/17 18:45	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			08/02/17 18:45	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			08/02/17 18:45	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			08/02/17 18:45	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			08/02/17 18:45	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			08/02/17 18:45	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			08/02/17 18:45	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			08/02/17 18:45	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			08/02/17 18:45	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			08/02/17 18:45	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			08/02/17 18:45	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			08/02/17 18:45	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			08/02/17 18:45	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			08/02/17 18:45	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			08/02/17 18:45	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			08/02/17 18:45	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			08/02/17 18:45	1
2-Hexanone	2.0	U	20	0.59	ug/L			08/02/17 18:45	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			08/02/17 18:45	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			08/02/17 18:45	1
Acetone	10	U	20	6.7	ug/L			08/02/17 18:45	1
Benzene	1.0	U	5.0	0.25	ug/L			08/02/17 18:45	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			08/02/17 18:45	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			08/02/17 18:45	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			08/02/17 18:45	1
Bromoform	1.0	U	5.0	0.37	ug/L			08/02/17 18:45	1
Bromomethane	2.0	U	10	0.40	ug/L			08/02/17 18:45	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			08/02/17 18:45	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			08/02/17 18:45	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			08/02/17 18:45	1
Chloroethane	1.0	U	10	0.38	ug/L			08/02/17 18:45	1
Chloroform	1.0	U	5.0	0.15	ug/L			08/02/17 18:45	1
Chloromethane	2.0	U	10	0.55	ug/L			08/02/17 18:45	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			08/02/17 18:45	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			08/02/17 18:45	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			08/02/17 18:45	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			08/02/17 18:45	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			08/02/17 18:45	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			08/02/17 18:45	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			08/02/17 18:45	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			08/02/17 18:45	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			08/02/17 18:45	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			08/02/17 18:45	1
Naphthalene	2.0	U	5.0	0.85	ug/L			08/02/17 18:45	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			08/02/17 18:45	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			08/02/17 18:45	1

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

Lab Sample ID: MB 160-320393/7
Matrix: Water
Analysis Batch: 320393

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1.0	U	5.0	0.32	ug/L			08/02/17 18:45	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			08/02/17 18:45	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/02/17 18:45	1
Styrene	1.0	U	5.0	0.35	ug/L			08/02/17 18:45	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			08/02/17 18:45	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			08/02/17 18:45	1
Toluene	1.0	U	5.0	1.0	ug/L			08/02/17 18:45	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			08/02/17 18:45	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			08/02/17 18:45	1
Trichloroethene	0.497	J	5.0	0.29	ug/L			08/02/17 18:45	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			08/02/17 18:45	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			08/02/17 18:45	1
Xylenes (total)	5.0	U	10	0.85	ug/L			08/02/17 18:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*81 - 118*		*08/02/17 18:45*	*1*
4-Bromofluorobenzene (Surr)	*88*		*85 - 114*		*08/02/17 18:45*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 119*		*08/02/17 18:45*	*1*
Toluene-d8 (Surr)	*93*		*89 - 112*		*08/02/17 18:45*	*1*

Lab Sample ID: LCS 160-320393/4
Matrix: Water
Analysis Batch: 320393

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	47.0		ug/L		94	78 - 124
1,1,1-Trichloroethane	50.0	48.0		ug/L		96	74 - 131
1,1,2,2-Tetrachloroethane	50.0	43.0		ug/L		86	71 - 121
1,1,2-Trichloroethane	50.0	43.1		ug/L		86	80 - 119
1,1-Dichloroethane	50.0	45.4		ug/L		91	77 - 125
1,1-Dichloroethene	50.0	47.1		ug/L		94	71 - 131
1,1-Dichloropropene	50.0	46.1		ug/L		92	79 - 125
1,2,3-Trichlorobenzene	50.0	50.3		ug/L		101	69 - 129
1,2,3-Trichloropropane	50.0	42.7		ug/L		85	73 - 122
1,2,4-Trimethylbenzene	50.0	47.4		ug/L		95	76 - 124
1,2-Dibromo-3-Chloropropane	50.0	40.8		ug/L		82	62 - 128
1,2-Dibromoethane	50.0	42.6		ug/L		85	80 - 120
1,2-Dichloroethane	50.0	46.8		ug/L		94	73 - 128
1,2-Dichloropropane	50.0	46.9		ug/L		94	78 - 122
1,3,5-Trimethylbenzene	50.0	48.0		ug/L		96	75 - 124
1,3-Dichloropropane	50.0	44.2		ug/L		88	80 - 119
2,2-Dichloropropane	50.0	48.3		ug/L		97	60 - 139
2-Butanone (MEK)	50.0	47.4		ug/L		95	56 - 143
2-Chlorotoluene	50.0	47.0		ug/L		94	79 - 122
2-Hexanone	50.0	39.7		ug/L		79	57 - 139
4-Chlorotoluene	50.0	47.0		ug/L		94	78 - 122
4-Methyl-2-pentanone (MIBK)	50.0	46.0		ug/L		92	67 - 130
Acetone	50.0	43.3		ug/L		87	39 - 160

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

Lab Sample ID: LCS 160-320393/4
Matrix: Water
Analysis Batch: 320393

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	44.1		ug/L		88	79 - 120
Bromobenzene	50.0	49.0		ug/L		98	80 - 120
Bromochloromethane	50.0	49.1		ug/L		98	78 - 123
Bromodichloromethane	50.0	48.8		ug/L		98	79 - 125
Bromoform	50.0	45.6		ug/L		91	66 - 130
Bromomethane	50.0	55.7		ug/L		111	53 - 141
Carbon disulfide	50.0	47.0		ug/L		94	64 - 133
Carbon tetrachloride	50.0	47.3		ug/L		95	72 - 136
Chlorobenzene	50.0	45.9		ug/L		92	82 - 118
Chloroethane	50.0	45.4		ug/L		91	60 - 138
Chloroform	50.0	45.8		ug/L		92	79 - 124
Chloromethane	50.0	48.5		ug/L		97	50 - 139
cis-1,2-Dichloroethene	50.0	46.9		ug/L		94	78 - 123
cis-1,3-Dichloropropene	50.0	51.2		ug/L		102	75 - 124
Dibromochloromethane	50.0	47.4		ug/L		95	74 - 126
Dibromomethane	50.0	48.6		ug/L		97	79 - 123
Dichlorodifluoromethane	50.0	51.6		ug/L		103	32 - 152
Ethylbenzene	50.0	44.9		ug/L		90	79 - 121
Isopropylbenzene	50.0	47.8		ug/L		96	72 - 131
m,p-Xylenes	50.0	46.8		ug/L		94	80 - 121
Methyl tert-butyl ether	50.0	47.2		ug/L		94	71 - 124
Methylene Chloride	50.0	45.1		ug/L		90	74 - 124
Naphthalene	50.0	48.4		ug/L		97	61 - 128
n-Butylbenzene	50.0	52.8		ug/L		106	75 - 128
N-Propylbenzene	50.0	47.2		ug/L		94	76 - 126
o-Xylene	50.0	47.8		ug/L		96	78 - 122
p-Isopropyltoluene	50.0	50.1		ug/L		100	77 - 127
sec-Butylbenzene	50.0	47.4		ug/L		95	77 - 126
Styrene	50.0	47.9		ug/L		96	78 - 123
tert-Butylbenzene	50.0	48.2		ug/L		96	78 - 124
Tetrachloroethene	50.0	46.9		ug/L		94	74 - 129
Toluene	50.0	45.1		ug/L		90	80 - 121
trans-1,2-Dichloroethene	50.0	46.4		ug/L		93	75 - 124
trans-1,3-Dichloropropene	50.0	48.9		ug/L		98	73 - 127
Trichloroethene	50.0	44.1		ug/L		88	79 - 123
Trichlorofluoromethane	50.0	58.7		ug/L		117	65 - 141
Vinyl chloride	50.0	49.3		ug/L		99	58 - 137
Xylenes (total)	100	94.6		ug/L		95	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*
4-Bromofluorobenzene (Surr)	*92*		*85 - 114*
Dibromofluoromethane (Surr)	*101*		*80 - 119*
Toluene-d8 (Surr)	*96*		*89 - 112*

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

Lab Sample ID: LCSD 160-320393/5
Matrix: Water
Analysis Batch: 320393

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	48.6		ug/L		97	78 - 124	3	20
1,1,1-Trichloroethane			50.0	48.9		ug/L		98	74 - 131	2	20
1,1,2,2-Tetrachloroethane			50.0	43.8		ug/L		88	71 - 121	2	20
1,1,2-Trichloroethane			50.0	45.4		ug/L		91	80 - 119	5	20
1,1-Dichloroethane			50.0	46.1		ug/L		92	77 - 125	1	20
1,1-Dichloroethene			50.0	47.4		ug/L		95	71 - 131	1	20
1,1-Dichloropropene			50.0	46.7		ug/L		93	79 - 125	1	20
1,2,3-Trichlorobenzene			50.0	50.2		ug/L		100	69 - 129	0	20
1,2,3-Trichloropropane			50.0	43.3		ug/L		87	73 - 122	1	20
1,2,4-Trimethylbenzene			50.0	48.7		ug/L		97	76 - 124	3	20
1,2-Dibromo-3-Chloropropane			50.0	44.8		ug/L		90	62 - 128	9	20
1,2-Dibromoethane			50.0	44.6		ug/L		89	80 - 120	5	20
1,2-Dichloroethane			50.0	47.8		ug/L		96	73 - 128	2	20
1,2-Dichloropropane			50.0	47.2		ug/L		94	78 - 122	1	20
1,3,5-Trimethylbenzene			50.0	48.6		ug/L		97	75 - 124	1	20
1,3-Dichloropropane			50.0	46.2		ug/L		92	80 - 119	4	20
2,2-Dichloropropane			50.0	48.2		ug/L		96	60 - 139	0	20
2-Butanone (MEK)			50.0	49.7		ug/L		99	56 - 143	5	20
2-Chlorotoluene			50.0	47.0		ug/L		94	79 - 122	0	20
2-Hexanone			50.0	43.2		ug/L		86	57 - 139	9	20
4-Chlorotoluene			50.0	47.6		ug/L		95	78 - 122	1	20
4-Methyl-2-pentanone (MIBK)			50.0	49.8		ug/L		100	67 - 130	8	20
Acetone			50.0	44.3		ug/L		89	39 - 160	2	20
Benzene			50.0	44.4		ug/L		89	79 - 120	1	20
Bromobenzene			50.0	49.7		ug/L		99	80 - 120	1	20
Bromochloromethane			50.0	50.0		ug/L		100	78 - 123	2	20
Bromodichloromethane			50.0	50.2		ug/L		100	79 - 125	3	20
Bromoform			50.0	48.6		ug/L		97	66 - 130	6	20
Bromomethane			50.0	56.1		ug/L		112	53 - 141	1	20
Carbon disulfide			50.0	47.1		ug/L		94	64 - 133	0	20
Carbon tetrachloride			50.0	49.2		ug/L		98	72 - 136	4	20
Chlorobenzene			50.0	46.2		ug/L		92	82 - 118	1	20
Chloroethane			50.0	48.2		ug/L		96	60 - 138	6	20
Chloroform			50.0	46.1		ug/L		92	79 - 124	1	20
Chloromethane			50.0	48.6		ug/L		97	50 - 139	0	20
cis-1,2-Dichloroethene			50.0	49.0		ug/L		98	78 - 123	4	20
cis-1,3-Dichloropropene			50.0	52.2		ug/L		104	75 - 124	2	20
Dibromochloromethane			50.0	49.2		ug/L		98	74 - 126	4	20
Dibromomethane			50.0	50.6		ug/L		101	79 - 123	4	20
Dichlorodifluoromethane			50.0	52.0		ug/L		104	32 - 152	1	20
Ethylbenzene			50.0	45.9		ug/L		92	79 - 121	2	20
Isopropylbenzene			50.0	48.5		ug/L		97	72 - 131	1	20
m,p-Xylenes			50.0	48.6		ug/L		97	80 - 121	4	20
Methyl tert-butyl ether			50.0	49.2		ug/L		98	71 - 124	4	20
Methylene Chloride			50.0	45.4		ug/L		91	74 - 124	1	20
Naphthalene			50.0	48.5		ug/L		97	61 - 128	0	20
n-Butylbenzene			50.0	51.3		ug/L		103	75 - 128	3	20
N-Propylbenzene			50.0	47.9		ug/L		96	76 - 126	1	20

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

Lab Sample ID: LCSD 160-320393/5
Matrix: Water
Analysis Batch: 320393

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	48.9		ug/L		98	78 - 122	2	20
p-Isopropyltoluene			50.0	49.5		ug/L		99	77 - 127	1	20
sec-Butylbenzene			50.0	47.9		ug/L		96	77 - 126	1	20
Styrene			50.0	49.1		ug/L		98	78 - 123	3	20
tert-Butylbenzene			50.0	48.2		ug/L		96	78 - 124	0	20
Tetrachloroethene			50.0	48.4		ug/L		97	74 - 129	3	20
Toluene			50.0	46.2		ug/L		92	80 - 121	2	20
trans-1,2-Dichloroethene			50.0	47.1		ug/L		94	75 - 124	2	20
trans-1,3-Dichloropropene			50.0	50.7		ug/L		101	73 - 127	4	20
Trichloroethene			50.0	44.0		ug/L		88	79 - 123	0	20
Trichlorofluoromethane			50.0	56.4		ug/L		113	65 - 141	4	20
Vinyl chloride			50.0	48.4		ug/L		97	58 - 137	2	20
Xylenes (total)			100	97.5		ug/L		98	79 - 121	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*81 - 118*
4-Bromofluorobenzene (Surr)	*93*		*85 - 114*
Dibromofluoromethane (Surr)	*102*		*80 - 119*
Toluene-d8 (Surr)	*98*		*89 - 112*

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

Lab Sample ID: MB 280-382409/36
Matrix: Water
Analysis Batch: 382409

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	0.227	J	1.0	0.16	mg/L			07/28/17 01:35	1

Lab Sample ID: MB 280-382409/5
Matrix: Water
Analysis Batch: 382409

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	0.198	J	1.0	0.16	mg/L			07/27/17 17:22	1

Lab Sample ID: LCS 280-382409/35
Matrix: Water
Analysis Batch: 382409

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Quad			25.0	23.1		mg/L		93	88 - 112		

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

Lab Sample ID: LCS 280-382409/4
Matrix: Water
Analysis Batch: 382409

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Quad	25.0	24.4		mg/L		98	88 - 112

Lab Sample ID: MB 280-382568/5
Matrix: Water
Analysis Batch: 382568

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

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			07/28/17 14:44	1

Lab Sample ID: LCS 280-382568/3
Matrix: Water
Analysis Batch: 382568

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Quad	25.0	25.2		mg/L		101	88 - 112

Lab Sample ID: LCSD 280-382568/4
Matrix: Water
Analysis Batch: 382568

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
Total Organic Carbon - Quad	25.0	25.5		mg/L		102	88 - 112	1	15

QC Association Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-99527-1

GC/MS VOA

Analysis Batch: 320257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-99527-1	6MW2005	Total/NA	Water	8260C DOD	
280-99527-5	6MW2205	Total/NA	Water	8260C DOD	
280-99527-6	6MW2305	Total/NA	Water	8260C DOD	
280-99527-7	6MW2405	Total/NA	Water	8260C DOD	
280-99527-9	6MW2605	Total/NA	Water	8260C DOD	
280-99527-10	TB06	Total/NA	Water	8260C DOD	
280-99527-11	FB02	Total/NA	Water	8260C DOD	
280-99527-13	6MW2005D	Total/NA	Water	8260C DOD	
MB 160-320257/6	Method Blank	Total/NA	Water	8260C DOD	
LCS 160-320257/4	Lab Control Sample	Total/NA	Water	8260C DOD	
280-99527-1 MS	6MW2005MS	Total/NA	Water	8260C DOD	
280-99527-1 MSD	6MW2005MSD	Total/NA	Water	8260C DOD	

Analysis Batch: 320393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-99527-8 - RA	6MW2505	Total/NA	Water	8260C DOD	
MB 160-320393/7	Method Blank	Total/NA	Water	8260C DOD	
LCS 160-320393/4	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 160-320393/5	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

General Chemistry

Analysis Batch: 382409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-99527-1	6MW2005	Total/NA	Water	9060A	
280-99527-5	6MW2205	Total/NA	Water	9060A	
280-99527-6	6MW2305	Total/NA	Water	9060A	
280-99527-7	6MW2405	Total/NA	Water	9060A	
280-99527-8	6MW2505	Total/NA	Water	9060A	
MB 280-382409/36	Method Blank	Total/NA	Water	9060A	
MB 280-382409/5	Method Blank	Total/NA	Water	9060A	
LCS 280-382409/35	Lab Control Sample	Total/NA	Water	9060A	
LCS 280-382409/4	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 382568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-99527-9	6MW2605	Total/NA	Water	9060A	
MB 280-382568/5	Method Blank	Total/NA	Water	9060A	
LCS 280-382568/3	Lab Control Sample	Total/NA	Water	9060A	
LCSD 280-382568/4	Lab Control Sample Dup	Total/NA	Water	9060A	

Client Sample ID: 6MW2005
Date Collected: 07/21/17 09:35
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-1
Matrix: Water

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	320257	08/01/17 19:21	JDH	TAL SL
Total/NA	Analysis	9060A		1			382409	07/27/17 22:57	CCJ	TAL DEN

Client Sample ID: 6MW2205
Date Collected: 07/21/17 11:05
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-5
Matrix: Water

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	320257	08/01/17 21:07	JDH	TAL SL
Total/NA	Analysis	9060A		2.17			382409	07/27/17 23:15	CCJ	TAL DEN

Client Sample ID: 6MW2305
Date Collected: 07/21/17 12:00
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-6
Matrix: Water

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	320257	08/01/17 21:32	JDH	TAL SL
Total/NA	Analysis	9060A		1			382409	07/28/17 00:03	CCJ	TAL DEN

Client Sample ID: 6MW2405
Date Collected: 07/21/17 12:40
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-7
Matrix: Water

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	320257	08/01/17 21:58	JDH	TAL SL
Total/NA	Analysis	9060A		1			382409	07/28/17 00:18	CCJ	TAL DEN

Client Sample ID: 6MW2505
Date Collected: 07/21/17 13:40
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-8
Matrix: Water

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	RA	1	5 mL	5 mL	320393	08/02/17 19:10	JDH	TAL SL
Total/NA	Analysis	9060A		1			382409	07/28/17 09:56	CCJ	TAL DEN

Client Sample ID: 6MW2605
Date Collected: 07/21/17 14:30
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-9
Matrix: Water

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	320257	08/01/17 22:50	JDH	TAL SL

Lab Chronicle

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-99527-1

Client Sample ID: 6MW2605
Date Collected: 07/21/17 14:30
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1			382568	07/28/17 15:57	CCJ	TAL DEN

Client Sample ID: TB06
Date Collected: 07/21/17 14:45
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-10
Matrix: Water

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	320257	08/01/17 18:16	JDH	TAL SL

Client Sample ID: FB02
Date Collected: 07/21/17 14:50
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-11
Matrix: Water

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	320257	08/01/17 18:55	JDH	TAL SL

Client Sample ID: 6MW2005D
Date Collected: 07/21/17 09:35
Date Received: 07/25/17 09:00

Lab Sample ID: 280-99527-13
Matrix: Water

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	320257	08/01/17 23:26	JDH	TAL SL

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-99527-1

Laboratory: 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 ELAP		2907.01	10-31-17

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

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

Connecticut	State Program	1	PH-0686	09-30-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

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

Florida	NELAP	4	E87667	06-30-18

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

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

New Hampshire	NELAP	1	205310	04-28-18
New York	NELAP	2	11964	04-01-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

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

Pennsylvania	NELAP	3	68-00664	07-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

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

Laboratory: 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	06-30-18
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-19
Florida	NELAP	4	E87689	06-30-18
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-18
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-18
Missouri	State Program	7	780	06-30-17 *
Nevada	State Program	9	MO000542017-1	07-31-18
New Jersey	NELAP	2	MO002	06-30-18
New York	NELAP	2	11616	03-31-18
North Dakota	State Program	8	R207	06-30-17 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17 *
Pennsylvania	NELAP	3	68-00540	02-21-18
South Carolina	State Program	4	85002001	06-30-17 *
Texas	NELAP	6	T104704193-17-11	07-31-18

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

Laboratory: TestAmerica St. Louis (Continued)

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
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17 *
Virginia	NELAP	3	460230	06-14-18
Washington	State Program	10	C592	08-30-17 *
West Virginia DEP	State Program	3	381	08-31-17 *

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

Method Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-99527-1

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

Protocol References:

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

Laboratory References:

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

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

Sample Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY

TestAmerica Job ID: 280-99527-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-99527-1	6MW2005	Water	07/21/17 09:35	07/25/17 09:00
280-99527-5	6MW2205	Water	07/21/17 11:05	07/25/17 09:00
280-99527-6	6MW2305	Water	07/21/17 12:00	07/25/17 09:00
280-99527-7	6MW2405	Water	07/21/17 12:40	07/25/17 09:00
280-99527-8	6MW2505	Water	07/21/17 13:40	07/25/17 09:00
280-99527-9	6MW2605	Water	07/21/17 14:30	07/25/17 09:00
280-99527-10	TB06	Water	07/21/17 14:45	07/25/17 09:00
280-99527-11	FB02	Water	07/21/17 14:50	07/25/17 09:00
280-99527-13	6MW2005D	Water	07/21/17 09:35	07/25/17 09:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Instrument ID: VMSX Analysis Batch Number: 315895

Lab Sample ID: IC 160-315895/4 Client Sample ID:

Date Analyzed: 06/30/17 10:07 Lab File ID: XICL7921.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	9.50	Missed Peak	hannj	07/02/17 14:06

Lab Sample ID: IC 160-315895/5 Client Sample ID:

Date Analyzed: 06/30/17 10:32 Lab File ID: XICL7922.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	9.51	Missed Peak	hannj	07/02/17 14:12

Lab Sample ID: IC 160-315895/6 Client Sample ID:

Date Analyzed: 06/30/17 10:57 Lab File ID: XICL7923.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	9.50	Missed Peak	hannj	07/02/17 14:13

Lab Sample ID: IC 160-315895/9 Client Sample ID:

Date Analyzed: 06/30/17 12:12 Lab File ID: XICL7926.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	4.63	Baseline	hannj	07/02/17 14:24

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
TOC ICV Std_00030	08/31/17	Ricca, Lot 1608F14			(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm
TOC ICV Std_00031	08/31/17	Ricca, Lot 1608F14			(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm
TOC LCS Std_00037	02/28/19	Ultra Scientific, Lot CR-0328			(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260 NewWkMix_00225	07/02/17	06/25/17	Methanol, Lot DP837	10 mL	8260Custom1_00052	125 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	25 ug/mL
							n-Nonyl Aldehyde	25 ug/mL
					8260Cyclohexa_00054	100 uL	Cyclohexanone	250 ug/mL
					8260Gases_00214	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_00054	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_00054	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
							Bromochloromethane	25 ug/mL

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00056	50 uL	Vinyl acetate	25 ug/mL
					Acrolein_00049	62.5 uL	Acrolein	125 ug/mL
					Adds(A) 2016_00016	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
							Benzyl chloride	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isooctane	25 ug/mL
							Isopropyl alcohol	250 ug/mL
							Methacrylonitrile	250 ug/mL
							n-Butanol	625 ug/mL
					Adds(B) 2016_00016	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_00003	100 uL	Ethanol	1000 ug/mL
					Polar Add._00046	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
.8260Custom1_00052	07/18/17	Accustandard, Lot 215101095-01			(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00054	07/25/17	Restek, Lot A0118487			(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.8260Gases_00214	07/02/17	Restek, Lot A0124278			(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_00054	07/25/17	Restek, Lot A0123890			(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_00054	07/25/17	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00056	07/18/17		Restek, Lot A0125716		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00049	07/25/17		Restek, Lot A0125560		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00016	07/11/17		Restek, Lot A0123685		(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_00016	07/11/17		Restek, Lot A0120639		(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_00003	07/04/17		Restek, Lot A0123787		(Purchased Reagent)		Ethanol	100000 ug/mL
.Polar Add._00046	07/25/17		Restek, Lot A0123796		(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_00230	08/06/17	07/30/17	Methanol, Lot DP837	10 mL	8260Gases_00219	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_00055	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_00055	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
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-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_00219	08/06/17		Restek, Lot A0124278		(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
.8260Ketones_00055	08/23/17		Restek, Lot A0123890		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.8260MegaMix_00055	08/23/17		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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00075	07/09/17	06/09/17	Methanol, Lot DQ538	25 mL	8260_Surr_00048	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_00048	07/09/17		Restek, Lot A0124069		(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
8260 Surr 25_00076	08/09/17	07/09/17	Methanol, Lot DP837	25 mL	8260_Surr_00049	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_00049	08/09/17		Restek, Lot A0124069		(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
8260_Surr_00048	07/09/17		Restek, Lot A0124069		(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
8260NewHiWrk_00202	07/02/17	06/25/17	Methanol, Lot DP837	1 mL	8260Custom1_00052	62.5 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	125 ug/mL
							n-Nonyl Aldehyde	125 ug/mL
					8260Cyclohexa_00054	50 uL	Cyclohexanone	1250 ug/mL
					8260Gases_00214	50 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_00054	10 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_00054	50 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00056	25 uL	Vinyl acetate	125 ug/mL
					Acrolein_00049	31.25 uL	Acrolein	625 ug/mL
					Adds(A) 2016_00016	50 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_00016	50 uL	Ethyl acetate	250 ug/mL
							Ethyl acrylate	125 ug/mL
							Methyl methacrylate	250 ug/mL
							n-Butyl acetate	125 ug/mL
					Ethanol P_00003	50 uL	Ethanol	5000 ug/mL
					Polar Add._00046	50 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
.8260Custom1_00052	07/18/17	Accustandard, Lot 215101095-01			(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00054	07/25/17	Restek, Lot A0118487			(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.8260Gases_00214	07/02/17	Restek, Lot A0124278			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260Ketones_00054	07/25/17		Restek, Lot A0123890		(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_00054	07/25/17		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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VinAcetat_00056	07/18/17		Restek, Lot A0125716		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00049	07/25/17		Restek, Lot A0125560		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00016	07/11/17		Restek, Lot A0123685		(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_00016	07/11/17		Restek, Lot A0120639		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.Ethanol P_00003	07/04/17		Restek, Lot A0123787		(Purchased Reagent)		Ethanol	100000 ug/mL
.Polar Add._00046	07/25/17		Restek, Lot A0123796		(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_00216	07/02/17	06/25/17	Methanol, Lot DP837	5 mL	8260GasesSS_00215	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_00053	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_00053	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00215	07/02/17		Restek, Lot A0124116		(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_00053	07/25/17		Restek, Lot A0123880		(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_00053	07/25/17		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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
I.S. Working_00149	07/14/17	06/14/17	Methanol, Lot DQ538	25 mL	8260 IS(2014)_00041	250 uL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene	25 ug/mL
.8260 IS(2014)_00041	07/14/17		Restek, Lot A0123516		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
I.S. Working_00150	08/13/17	07/13/17	Methanol, Lot DP837	25 mL	8260 IS(2014)_00042	250 uL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene	25 ug/mL
.8260 IS(2014)_00042	08/13/17		Restek, Lot A0123516		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL

Reagent

TOC ICV Std_00030

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Certificate of Analysis

Organic Carbon Standard, 1000 ppm C

Lot Number: 1608F14 **Product Number:** 1847

Manufacture Date: AUG 12, 2016
Expiration Date: AUG 2017

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

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

Katie Schnur
Quality Control Manager

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

Reagent

TOC ICV Std_00031

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Batesville, IN 47006
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customerservice@riccachemical.com

Certificate of Analysis

Organic Carbon Standard, 1000 ppm C

Lot Number: 1608F14 **Product Number:** 1847

Manufacture Date: AUG 12, 2016
Expiration Date: AUG 2017

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

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

Katie Schnur
Quality Control Manager

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

Reagent

TOC LCS Std_00037

Certificate of Analysis

ISO Guide 34 Reference Material

Product Number: IQC-106
Lot Number: CR-0328
Lot Issue Date: 01-Feb 2017
Expiration Date: 28-Feb 2019

Product Name: Total Organic Carbon (TOC) Standard

Description:
This Reference Material (RM) was gravimetrically prepared in accordance with ISO Guide 34 and under ULTRA Scientific's ISO 9001 registered quality system. The neat materials used for this product have been verified by ULTRA's ISO 17025 laboratory and under ULTRA's ISO Guide 34 accreditation. The analyte concentrations were verified by ULTRA'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	RM10715	99.96	1001 ± 5 µg/mL	NW16470; 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.

ISO 9001 Registered Quality System – TUV USA

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Certificate of Analysis

ISO Guide 34 Reference Material

Product Number: IQC-106
Lot Number: CR-0328

Lot Issue Date: 01-Feb 2017
Expiration Date: 28-Feb 2019

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, ULTRA Scientific will notify the purchaser.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001 Registered Quality System – TUV USA

Reagent

8260 IS(2014)_00041

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Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ISO Guide 34 Accredited
Reference Material Producer
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.:** A0123516

Description : 8260A Internal Standard Mix

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

REC'D 4-28-17
JDH

1168044-046

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

Expiration Date : December 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Fluorobenzene		2,500.2 µg/mL	+/- 14.5364 µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)		+/- 140.1837 µg/mL	Unstressed
	Purity 99%			+/- 143.4639 µg/mL	Stressed
2	Chlorobenzene-d5		2,500.1 µg/mL	+/- 14.5358 µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-23926)		+/- 140.1781 µg/mL	Unstressed
	Purity 99%			+/- 143.4581 µg/mL	Stressed
3	1,4-Dichlorobenzene-d4		2,500.6 µg/mL	+/- 14.5387 µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)		+/- 140.2062 µg/mL	Unstressed
	Purity 99%			+/- 143.4868 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)

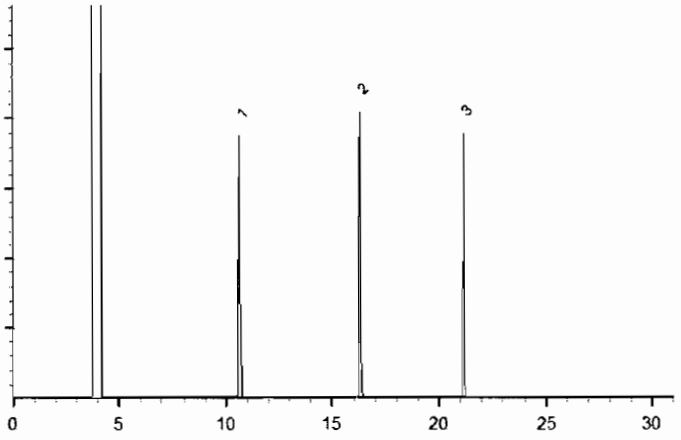
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Michael J Maye

Date Mixed: 15-Dec-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Dec-2016

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

Reagent

8260 IS(2014)_00042

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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.:** A0123516

Description : 8260A Internal Standard Mix

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

REC'D 4-28-17
JDH

1168044-046

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

Expiration Date : December 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Fluorobenzene **CAS #** 462-06-6 (Lot BCBK8171V) **Purity** 99%	2,500.2 µg/mL	+/- 14.5364 µg/mL +/- 140.1837 µg/mL +/- 143.4639 µg/mL	Gravimetric Unstressed Stressed
2	Chlorobenzene-d5 **CAS #** 3114-55-4 (Lot PR-23926) **Purity** 99%	2,500.1 µg/mL	+/- 14.5358 µg/mL +/- 140.1781 µg/mL +/- 143.4581 µg/mL	Gravimetric Unstressed Stressed
3	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 (Lot PR-18488) **Purity** 99%	2,500.6 µg/mL	+/- 14.5387 µg/mL +/- 140.2062 µg/mL +/- 143.4868 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)

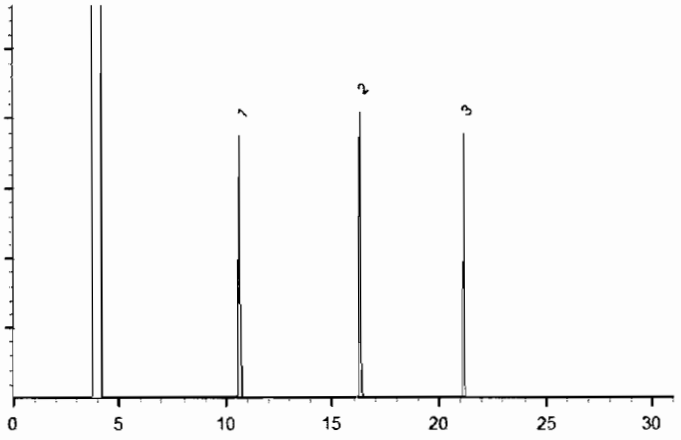
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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 J Maye

Date Mixed: 15-Dec-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Dec-2016

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

Reagent

8260_Surr_00048

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 567650 **Lot No.:** A0124069

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

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

Expiration Date : January 31, 2022 **Storage:** 0°C or colder

REC'D 4-28-17
JDH
1168074-076

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane	2,521.2 µg/mL	+/- 14.6582 µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 0012016)		+/- 141.3584 µg/mL	Unstressed
	Purity 99%		+/- 144.6660 µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,513.8 µg/mL	+/- 14.6157 µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-25433)		+/- 140.9489 µg/mL	Unstressed
	Purity 98%		+/- 144.2469 µg/mL	Stressed
3	Toluene-d8	2,519.4 µg/mL	+/- 14.6480 µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-27311)		+/- 141.2603 µg/mL	Unstressed
	Purity 99%		+/- 144.5656 µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,520.8 µg/mL	+/- 14.6559 µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KOV)		+/- 141.3360 µg/mL	Unstressed
	Purity 99%		+/- 144.6430 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)

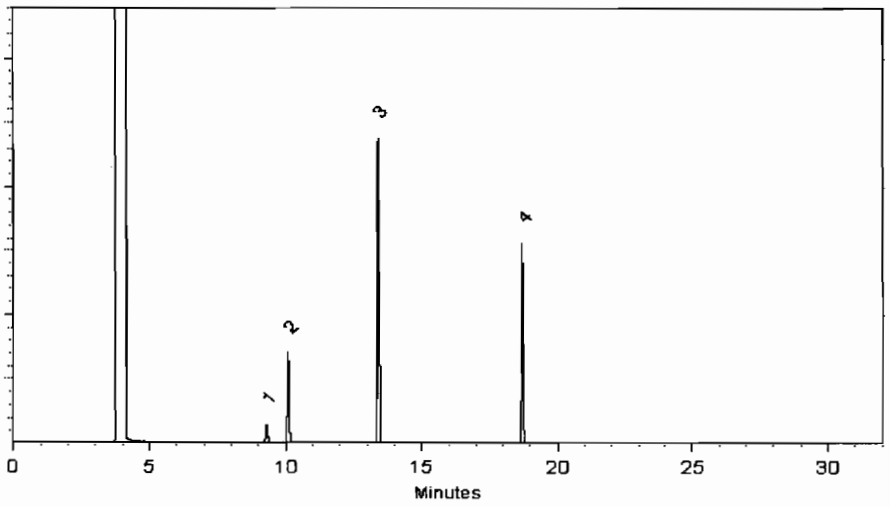
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Isaiah Harrison - Mix Technician

Date Mixed: 09-Jan-2017 **Balance:** 1128342314

Amanda Miller - Operations Tech-ARM QC

Date Passed: 11-Jan-2017

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

Reagent

8260_Surr_00049

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

ilac-MRA

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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. : 567650 **Lot No.:** A0124069

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

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

Expiration Date : January 31, 2022 **Storage:** 0°C or colder

REC'D 4-28-17
JDH
1168074-076

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 0012016) **Purity** 99%	2,521.2 µg/mL	+/- 14.6582 µg/mL +/- 141.3584 µg/mL +/- 144.6660 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-25433) **Purity** 98%	2,513.8 µg/mL	+/- 14.6157 µg/mL +/- 140.9489 µg/mL +/- 144.2469 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-27311) **Purity** 99%	2,519.4 µg/mL	+/- 14.6480 µg/mL +/- 141.2603 µg/mL +/- 144.5656 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KOV) **Purity** 99%	2,520.8 µg/mL	+/- 14.6559 µg/mL +/- 141.3360 µg/mL +/- 144.6430 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)

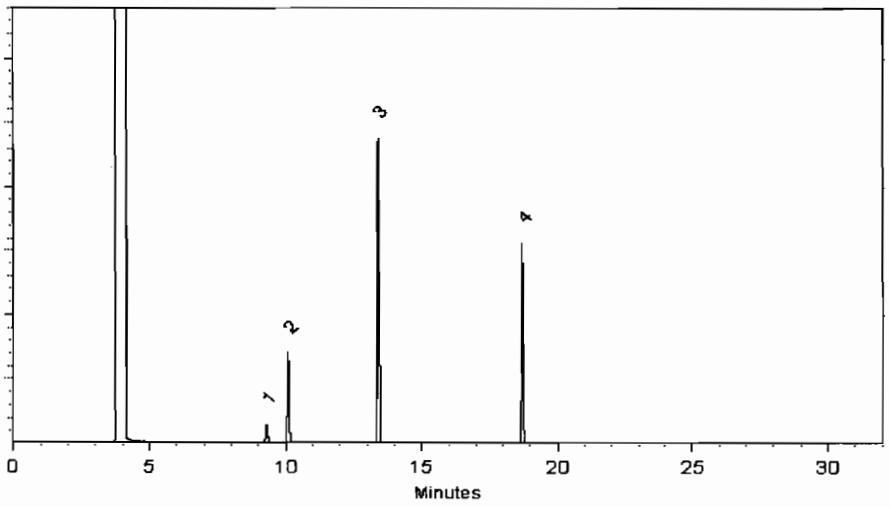
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Isaiah Harrison - Mix Technician

Date Mixed: 09-Jan-2017 **Balance:** 1128342314

Amanda Miller - Operations Tech-ARM QC

Date Passed: 11-Jan-2017

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

Reagent

8260Custom1_00052

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

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

CERTIFICATE OF ANALYSIS

Catalog No: S-26138
Description: Custom VOC Standard
Lot: 215101095-01
Solvent: Methanol
Hazards: **HIGHLY FLAMMABLE** - *Refer to SDS for safety info*

Danger 2

Date Certified: Jul 25, 2016
Expiration: Jul 25, 2017
Sample Size: 1 mL
Components: 2
Storage Condition: Refrig (0-5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Freon 114	76-14-2	99.0	2013	1993
Nonanal	124-19-6	100.0	2004	2004

REC'D 12-8-16
JDH

1063471-480

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 gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent 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 raporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By:
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

CERTIFICATION REPORT

1. **Quality Documentation:** This certificate is designed in accordance with ISO Guide 31 (Reference Materials - Contents of Certificates and Labels) and ISO Guide 35 (Reference Materials – General and Statistical Principles for Certification).

2. **Quality Standards:**

   ISO Guide 34 - General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

   ISO/IEC 17025 - General Requirements for the Competence of Testing and Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001 - Quality Management System - Requirements
   Eagle Registrations Certificate Number 3774

3. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11. If dilution is required, use only Class A glassware and diluent compatible with all certified analytes in this preparation. All solutions should be thoroughly mixed prior to use.

4. **Raw Materials:** Reference standards are prepared from the highest quality starting materials with defined purities. All analytes and solvents are obtained from pre-qualified vendors and then analyzed or evaluated prior to use.

5. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.

6. **Homogeneity Assessment:** Homogeneity of the finished product is assessed by analyzing sample batches or by other methods consistent with the intended use of the product and by procedures that comply with the appropriate Quality System requirements, and ISO Guide 35.

7. **Stability Assessment:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label. To ensure a uniform solution, mix the contents of the sealed container thoroughly prior to use. Care should be taken not to contaminate the contents of the original container.

8. **Analytical Quality Control:** Products are tested by validated analytical methods specified in the manufacturer's quality system.

9. **Uncertainty Statistics and Confidence Limits:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_m = \sqrt{(u(P))^2 + (u(m))^2 + (u(V))^2}$. The expanded uncertainty, U_{CRM} assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level. The U_{CRM} for organic products is ±5%, the U_{CRM} for inorganic products is ±2%.

10. **Warranties:** The manufacturer warrants that its products shall conform to the description of such products as provided in its catalog or on the specific product label. This warranty is exclusive, and the manufacturer makes no other warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.

11. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. Due to the hazardous nature, only trained personnel should handle this product. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

8260Gases_00214

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. : 569722 **Lot No.:** A0124278

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

REC'D 4-28-17 JDH

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

Expiration Date : January 31, 2020 **Storage:** 0°C or colder

1168151-160

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)		2,500.5	µg/mL	+/- 16.7232	µg/mL	Gravimetric
	CAS # 75-71-8	(Lot Q167-08)			+/- 140.4412	µg/mL	Unstressed
	Purity 99%				+/- 143.7161	µg/mL	Stressed
2	Chloromethane (methyl chloride)		2,498.7	µg/mL	+/- 17.4998	µg/mL	Gravimetric
	CAS # 74-87-3	(Lot SHBG7976V)			+/- 140.4406	µg/mL	Unstressed
	Purity 99%				+/- 143.7111	µg/mL	Stressed
3	Vinyl chloride		2,498.4	µg/mL	+/- 16.6753	µg/mL	Gravimetric
	CAS # 75-01-4	(Lot 1026101231B1)			+/- 140.3203	µg/mL	Unstressed
	Purity 99%				+/- 143.5926	µg/mL	Stressed
4	1,3-Butadiene		2,496.9	µg/mL	+/- 17.0619	µg/mL	Gravimetric
	CAS # 106-99-0	(Lot SHBF3387V)			+/- 140.2843	µg/mL	Unstressed
	Purity 99%				+/- 143.5535	µg/mL	Stressed
5	Bromomethane (methyl bromide)		2,500.5	µg/mL	+/- 17.3456	µg/mL	Gravimetric
	CAS # 74-83-9	(Lot 101604)			+/- 140.5211	µg/mL	Unstressed
	Purity 99%				+/- 143.7944	µg/mL	Stressed
6	Chloroethane (ethyl chloride)		2,500.5	µg/mL	+/- 16.8189	µg/mL	Gravimetric
	CAS # 75-00-3	(Lot 23593)			+/- 140.4526	µg/mL	Unstressed
	Purity 99%				+/- 143.7272	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)		2,500.0	µg/mL	+/- 10.0499	µg/mL	Gravimetric
	CAS # 75-43-4	(Lot 4938100)			+/- 139.7786	µg/mL	Unstressed
	Purity 99%				+/- 143.0675	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,501.5	µg/mL	+/-	16.5404	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBG7531V)			+/-	140.4793	µg/mL	Unstressed
	Purity 99%				+/-	143.7562	µg/mL	Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

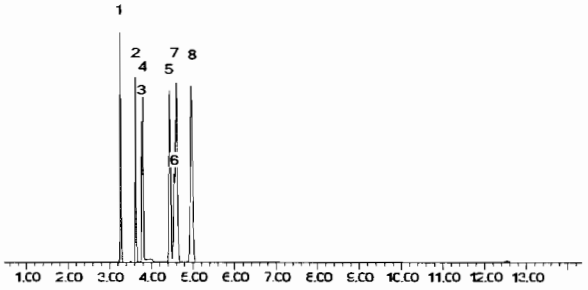
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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.

Joseph Jaglowski - Mix Technician **Date Mixed:** 17-Jan-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 24-Jan-2017

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

Reagent

8260Gases_00219

RESTEK
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CERTIFIED REFERENCE MATERIAL

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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. : 569722 **Lot No.:** A0124278

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

REC'D 4-28-17 JDH

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

Expiration Date : January 31, 2020 **Storage:** 0°C or colder

1168151-160

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)		2,500.5	µg/mL	+/- 16.7232	µg/mL	Gravimetric
	CAS # 75-71-8	(Lot Q167-08)			+/- 140.4412	µg/mL	Unstressed
	Purity 99%				+/- 143.7161	µg/mL	Stressed
2	Chloromethane (methyl chloride)		2,498.7	µg/mL	+/- 17.4998	µg/mL	Gravimetric
	CAS # 74-87-3	(Lot SHBG7976V)			+/- 140.4406	µg/mL	Unstressed
	Purity 99%				+/- 143.7111	µg/mL	Stressed
3	Vinyl chloride		2,498.4	µg/mL	+/- 16.6753	µg/mL	Gravimetric
	CAS # 75-01-4	(Lot 1026101231B1)			+/- 140.3203	µg/mL	Unstressed
	Purity 99%				+/- 143.5926	µg/mL	Stressed
4	1,3-Butadiene		2,496.9	µg/mL	+/- 17.0619	µg/mL	Gravimetric
	CAS # 106-99-0	(Lot SHBF3387V)			+/- 140.2843	µg/mL	Unstressed
	Purity 99%				+/- 143.5535	µg/mL	Stressed
5	Bromomethane (methyl bromide)		2,500.5	µg/mL	+/- 17.3456	µg/mL	Gravimetric
	CAS # 74-83-9	(Lot 101604)			+/- 140.5211	µg/mL	Unstressed
	Purity 99%				+/- 143.7944	µg/mL	Stressed
6	Chloroethane (ethyl chloride)		2,500.5	µg/mL	+/- 16.8189	µg/mL	Gravimetric
	CAS # 75-00-3	(Lot 23593)			+/- 140.4526	µg/mL	Unstressed
	Purity 99%				+/- 143.7272	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)		2,500.0	µg/mL	+/- 10.0499	µg/mL	Gravimetric
	CAS # 75-43-4	(Lot 4938100)			+/- 139.7786	µg/mL	Unstressed
	Purity 99%				+/- 143.0675	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,501.5	µg/mL	+/-	16.5404	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBG7531V)			+/-	140.4793	µg/mL	Unstressed
	Purity 99%				+/-	143.7562	µg/mL	Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

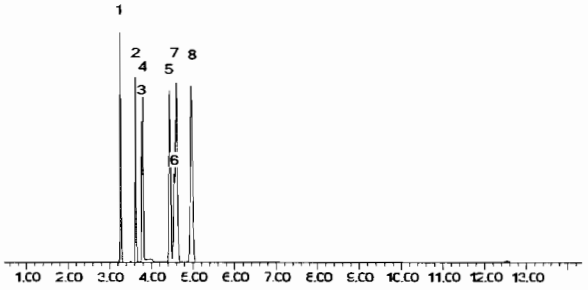
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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.

Joseph Jaglowski - Mix Technician **Date Mixed:** 17-Jan-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 24-Jan-2017

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

Reagent

8260GasesSS_00215

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 569722.SEC **Lot No.:** A0124116

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

REC'D 4-28-17 JDH

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

Expiration Date : January 31, 2020 **Storage:** 0°C or colder

1168167-176

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,503.4 µg/mL	+/- 19.5506 µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 23586)		+/- 140.9699 µg/mL	Unstressed
	Purity 99%		+/- 144.2404 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,508.1 µg/mL	+/- 21.1963 µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 141.4639 µg/mL	Unstressed
	Purity 99%		+/- 144.7353 µg/mL	Stressed
3	Vinyl chloride	2,518.6 µg/mL	+/- 19.4186 µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 141.7924 µg/mL	Unstressed
	Purity 99%		+/- 145.0836 µg/mL	Stressed
4	1,3-Butadiene	2,504.0 µg/mL	+/- 20.5722 µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 22331)		+/- 141.1450 µg/mL	Unstressed
	Purity 99%		+/- 144.4130 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,498.5 µg/mL	+/- 19.9806 µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 140.7602 µg/mL	Unstressed
	Purity 99%		+/- 144.0229 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,494.9 µg/mL	+/- 17.8868 µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 140.2786 µg/mL	Unstressed
	Purity 99%		+/- 143.5429 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,503.4 µg/mL	+/- 20.0421 µg/mL	Gravimetric
	CAS # 75-43-4.SEC (Lot SHBC0858V)		+/- 141.0350 µg/mL	Unstressed
	Purity 99%		+/- 144.3039 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,503.2	µg/mL	+/-	18.7037	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot Q12B-59)			+/-	140.8450	µg/mL	Unstressed
	Purity 99%				+/-	144.1179	µg/mL	Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

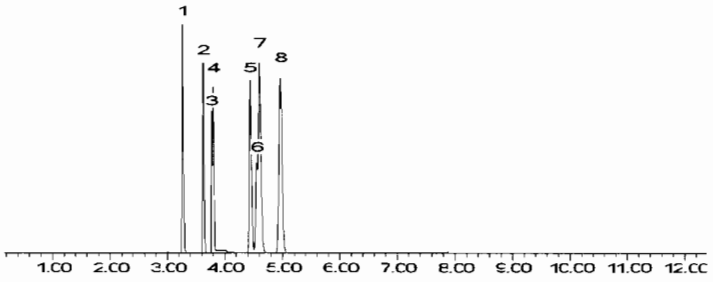
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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.

Brandon Reish - Mix Technician **Date Mixed:** 12-Jan-2017 **Balance:** 1127510105

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 17-Jan-2017

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

Reagent

Adds(A) 2016_00016

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www.restek.com

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Certificate of Analysis

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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. : 570808 **Lot No.:** A0123685

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2500-62500 µg/ml, P&T Methanol, 1 ml/ampul

REC'D 4-28-17
JDH

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

Expiration Date : June 30, 2018 **Storage:** 0°C or colder

1168099 - 101

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 SHBG8138V) **Purity** 99%	25,022.0 µg/mL	+/- 145.4725 µg/mL +/- 1,237.7836 µg/mL +/- 1,268.5622 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 (Lot 161201JLM) **Purity** 99%	2,515.5 µg/mL	+/- 14.6253 µg/mL +/- 124.4364 µg/mL +/- 127.5306 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 (Lot 1012014) **Purity** 99%	25,000.0 µg/mL	+/- 145.3446 µg/mL +/- 1,236.6953 µg/mL +/- 1,267.4469 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 (Lot SHBD2922V) **Purity** 99%	2,508.0 µg/mL	+/- 14.5817 µg/mL +/- 124.0654 µg/mL +/- 127.1504 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 (Lot SHBF9309V) **Purity** 99%	62,715.5 µg/mL	+/- 364.6143 µg/mL +/- 3,102.3986 µg/mL +/- 3,179.5425 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 (Lot BCBL0537V) **Purity** 98%	5,007.8 µg/mL	+/- 29.1158 µg/mL +/- 247.7251 µg/mL +/- 253.8850 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 (Lot 05107LK) **Purity** 98%	2,501.5 µg/mL	+/- 14.5436 µg/mL +/- 123.7413 µg/mL +/- 126.8183 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene		2,516.2	µg/mL	+/- 14.6291	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 877605-15)			+/- 124.4685	µg/mL	Unstressed
	Purity 98%				+/- 127.5635	µg/mL	Stressed
9	Benzyl chloride		2,508.3	µg/mL	+/- 14.5832	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBB7346V)			+/- 124.0777	µg/mL	Unstressed
	Purity 99%				+/- 127.1630	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,508.0	µg/mL	+/- 14.5817	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/- 124.0654	µg/mL	Unstressed
	Purity 99%				+/- 127.1504	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)

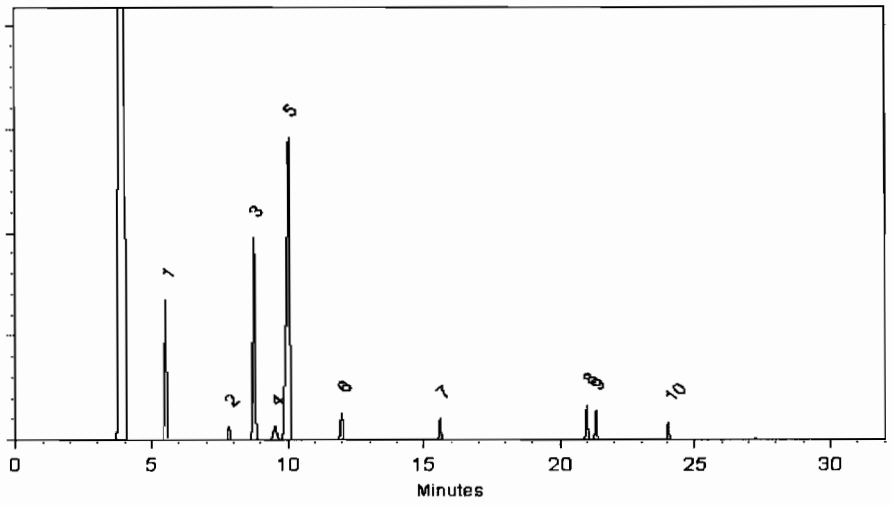
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Rebecca Sawyer

Date Mixed: 21-Dec-2016 **Balance:** 1125113331

Amanda Miller - Operations Tech-ARM QC

Date Passed: 27-Dec-2016

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

Reagent

Adds(B) 2016_00016

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.:** A0120639

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2500-5000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : January 31, 2018 **Storage:** 0°C or colder

REC'D 4-28-17
JDH
1168105 - 107

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Ethyl acetate		5,018.5 µg/mL	+/- 29.3844 µg/mL		Gravimetric
	CAS # 141-78-6	(Lot SHBG6401V)		+/- 302.8083 µg/mL		Unstressed
	Purity 99%			+/- 303.5271 µg/mL		Stressed
2	Ethyl acrylate		2,506.5 µg/mL	+/- 14.7095 µg/mL		Gravimetric
	CAS # 140-88-5	(Lot 10129902)		+/- 151.2415 µg/mL		Unstressed
	Purity 99%			+/- 151.6005 µg/mL		Stressed
3	Methyl methacrylate		5,005.5 µg/mL	+/- 29.3083 µg/mL		Gravimetric
	CAS # 80-62-6	(Lot MKBN8882V)		+/- 302.0239 µg/mL		Unstressed
	Purity 99%			+/- 302.7409 µg/mL		Stressed
4	Butyl acetate		2,501.0 µg/mL	+/- 14.6773 µg/mL		Gravimetric
	CAS # 123-86-4	(Lot SHBC9340V)		+/- 150.9096 µg/mL		Unstressed
	Purity 99%			+/- 151.2678 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)

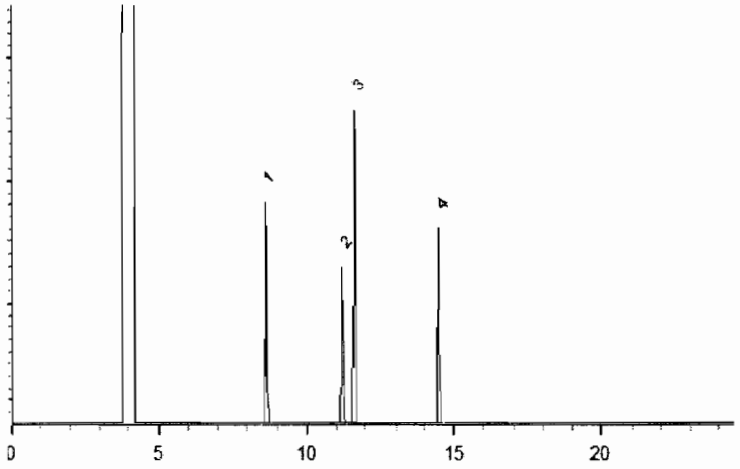
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Dawn Brownson - Mix Technician

Date Mixed: 26-Jul-2016 **Balance:** 1125113331

Date Passed: 28-Jul-2016

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

Reagent

Ethanol P_00003

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

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

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. : 571994 **Lot No.:** A0123787

Description : 8260 Ethanol Standard

8260 Ethanol Standard 100,000 µg/ml, P&T Methanol, 1 ml/ampul

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

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

Rec'd 4-28-17
JDH

1168129-130

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethanol	100,062.7 µg/mL	+/- 585.8587 µg/mL	Gravimetric
	CAS # 64-17-5 (Lot SHBG4100V)		+/- 2,143.4667 µg/mL	Unstressed
	Purity 99%		+/- 2,205.7173 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)

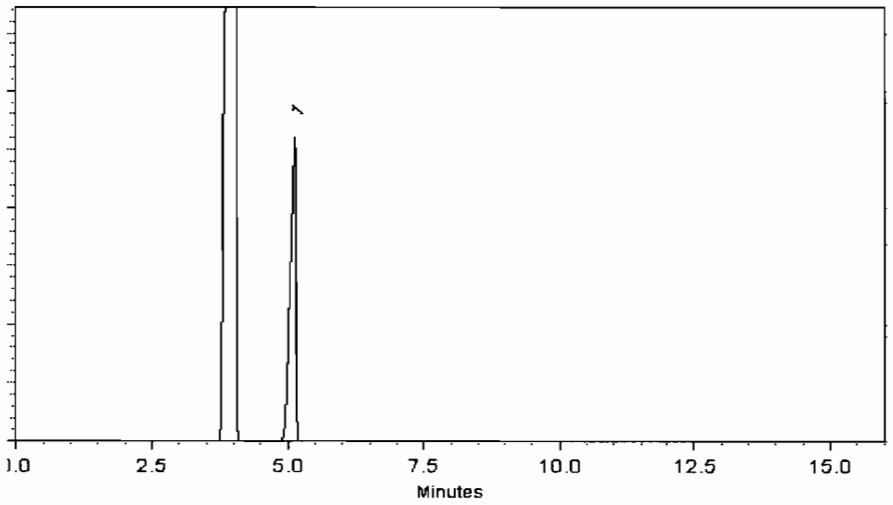
Carrier Gas:
hydrogen-constant pressure 11 psi.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/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.

Cathleen Soltis - Mix Technician

Date Mixed: 28-Dec-2016 **Balance:** 1125113331

Amanda Miller - Operations Tech-ARM QC

Date Passed: 03-Jan-2017

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: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTXVMS30 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
6MW2005	280-99527-1	109	114	95	86
6MW2205	280-99527-5	112	121 Q	92	89
6MW2305	280-99527-6	110	113	95	88
6MW2405	280-99527-7	108	111	93	87
6MW2505 RA	280-99527-8 RA	113	118	95	88
6MW2605	280-99527-9	104	110	92	85
TB06	280-99527-10	106	111	96	88
FB02	280-99527-11	104	110	96	90
6MW2005D	280-99527-13	113	119 Q	98	90
	MB 160-320257/6	105	108	92	90
	MB 160-320393/7	104	108	93	88
	LCS 160-320257/4	98	98	95	91
	LCS 160-320393/4	101	100	96	92
	LCSD 160-320393/5	102	104	98	93
6MW2005MS MS	280-99527-1 MS	104	106	96	92
6MW2005MSD MSD	280-99527-1 MSD	105	106	95	91

	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: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS8166.D

Lab ID: LCS 160-320257/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	47.4	95	78-124	
1,1,1-Trichloroethane	50.0	47.9	96	74-131	
1,1,2,2-Tetrachloroethane	50.0	42.6	85	71-121	
1,1,2-Trichloroethane	50.0	43.2	86	80-119	
1,1-Dichloroethane	50.0	45.8	92	77-125	
1,1-Dichloroethene	50.0	47.4	95	71-131	
1,1-Dichloropropene	50.0	46.5	93	79-125	
1,2,3-Trichlorobenzene	50.0	50.1	100	69-129	
1,2,3-Trichloropropane	50.0	43.3	87	73-122	
1,2,4-Trimethylbenzene	50.0	48.2	96	76-124	
1,2-Dibromo-3-Chloropropane	50.0	40.4	81	62-128	
1,2-Dibromoethane	50.0	43.2	86	80-120	
1,2-Dichloroethane	50.0	46.7	93	73-128	
1,2-Dichloropropane	50.0	47.1	94	78-122	
1,3,5-Trimethylbenzene	50.0	48.3	97	75-124	
1,3-Dichloropropane	50.0	45.4	91	80-119	
2,2-Dichloropropane	50.0	49.6	99	60-139	
2-Butanone (MEK)	50.0	46.3	93	56-143	
2-Chlorotoluene	50.0	47.2	94	79-122	
2-Hexanone	50.0	40.1	80	57-139	
4-Chlorotoluene	50.0	47.4	95	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	47.6	95	67-130	
Acetone	50.0	39.7	79	39-160	
Benzene	50.0	44.0	88	79-120	
Bromobenzene	50.0	49.3	99	80-120	
Bromochloromethane	50.0	50.0	100	78-123	
Bromodichloromethane	50.0	49.5	99	79-125	
Bromoform	50.0	48.1	96	66-130	
Bromomethane	50.0	56.2	112	53-141	
Carbon disulfide	50.0	47.5	95	64-133	
Carbon tetrachloride	50.0	48.0	96	72-136	
Chlorobenzene	50.0	45.8	92	82-118	
Chloroethane	50.0	46.5	93	60-138	
Chloroform	50.0	46.1	92	79-124	
Chloromethane	50.0	49.8	100	50-139	
cis-1,2-Dichloroethene	50.0	47.4	95	78-123	
cis-1,3-Dichloropropene	50.0	52.3	105	75-124	
Dibromochloromethane	50.0	49.0	98	74-126	
Dibromomethane	50.0	48.8	98	79-123	
Dichlorodifluoromethane	50.0	51.9	104	32-152	
Ethylbenzene	50.0	44.5	89	79-121	
Isopropylbenzene	50.0	48.2	96	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: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS8166.D

Lab ID: LCS 160-320257/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	47.6	95	80-121	
Methyl tert-butyl ether	50.0	47.5	95	71-124	
Methylene Chloride	50.0	45.3	91	74-124	
Naphthalene	50.0	46.6	93	61-128	
n-Butylbenzene	50.0	51.7	103	75-128	
N-Propylbenzene	50.0	48.0	96	76-126	
o-Xylene	50.0	48.0	96	78-122	
p-Isopropyltoluene	50.0	49.5	99	77-127	
sec-Butylbenzene	50.0	47.6	95	77-126	
Styrene	50.0	48.7	97	78-123	
tert-Butylbenzene	50.0	47.8	96	78-124	
Tetrachloroethene	50.0	47.9	96	74-129	
Toluene	50.0	45.8	92	80-121	
trans-1,2-Dichloroethene	50.0	47.4	95	75-124	
trans-1,3-Dichloropropene	50.0	50.3	101	73-127	
Trichloroethene	50.0	44.1	88	79-123	
Trichlorofluoromethane	50.0	59.1	118	65-141	
Vinyl chloride	50.0	49.8	100	58-137	
Xylenes (total)	100	95.6	96	79-121	

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: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS8185.D

Lab ID: LCS 160-320393/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	47.0	94	78-124	
1,1,1-Trichloroethane	50.0	48.0	96	74-131	
1,1,2,2-Tetrachloroethane	50.0	43.0	86	71-121	
1,1,2-Trichloroethane	50.0	43.1	86	80-119	
1,1-Dichloroethane	50.0	45.4	91	77-125	
1,1-Dichloroethene	50.0	47.1	94	71-131	
1,1-Dichloropropene	50.0	46.1	92	79-125	
1,2,3-Trichlorobenzene	50.0	50.3	101	69-129	
1,2,3-Trichloropropane	50.0	42.7	85	73-122	
1,2,4-Trimethylbenzene	50.0	47.4	95	76-124	
1,2-Dibromo-3-Chloropropane	50.0	40.8	82	62-128	
1,2-Dibromoethane	50.0	42.6	85	80-120	
1,2-Dichloroethane	50.0	46.8	94	73-128	
1,2-Dichloropropane	50.0	46.9	94	78-122	
1,3,5-Trimethylbenzene	50.0	48.0	96	75-124	
1,3-Dichloropropane	50.0	44.2	88	80-119	
2,2-Dichloropropane	50.0	48.3	97	60-139	
2-Butanone (MEK)	50.0	47.4	95	56-143	
2-Chlorotoluene	50.0	47.0	94	79-122	
2-Hexanone	50.0	39.7	79	57-139	
4-Chlorotoluene	50.0	47.0	94	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	46.0	92	67-130	
Acetone	50.0	43.3	87	39-160	
Benzene	50.0	44.1	88	79-120	
Bromobenzene	50.0	49.0	98	80-120	
Bromochloromethane	50.0	49.1	98	78-123	
Bromodichloromethane	50.0	48.8	98	79-125	
Bromoform	50.0	45.6	91	66-130	
Bromomethane	50.0	55.7	111	53-141	
Carbon disulfide	50.0	47.0	94	64-133	
Carbon tetrachloride	50.0	47.3	95	72-136	
Chlorobenzene	50.0	45.9	92	82-118	
Chloroethane	50.0	45.4	91	60-138	
Chloroform	50.0	45.8	92	79-124	
Chloromethane	50.0	48.5	97	50-139	
cis-1,2-Dichloroethene	50.0	46.9	94	78-123	
cis-1,3-Dichloropropene	50.0	51.2	102	75-124	
Dibromochloromethane	50.0	47.4	95	74-126	
Dibromomethane	50.0	48.6	97	79-123	
Dichlorodifluoromethane	50.0	51.6	103	32-152	
Ethylbenzene	50.0	44.9	90	79-121	
Isopropylbenzene	50.0	47.8	96	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: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS8185.D

Lab ID: LCS 160-320393/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	46.8	94	80-121	
Methyl tert-butyl ether	50.0	47.2	94	71-124	
Methylene Chloride	50.0	45.1	90	74-124	
Naphthalene	50.0	48.4	97	61-128	
n-Butylbenzene	50.0	52.8	106	75-128	
N-Propylbenzene	50.0	47.2	94	76-126	
o-Xylene	50.0	47.8	96	78-122	
p-Isopropyltoluene	50.0	50.1	100	77-127	
sec-Butylbenzene	50.0	47.4	95	77-126	
Styrene	50.0	47.9	96	78-123	
tert-Butylbenzene	50.0	48.2	96	78-124	
Tetrachloroethene	50.0	46.9	94	74-129	
Toluene	50.0	45.1	90	80-121	
trans-1,2-Dichloroethene	50.0	46.4	93	75-124	
trans-1,3-Dichloropropene	50.0	48.9	98	73-127	
Trichloroethene	50.0	44.1	88	79-123	
Trichlorofluoromethane	50.0	58.7	117	65-141	
Vinyl chloride	50.0	49.3	99	58-137	
Xylenes (total)	100	94.6	95	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: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS8186.D

Lab ID: LCSD 160-320393/5 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	48.6	97	3	20	78-124	
1,1,1-Trichloroethane	50.0	48.9	98	2	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	43.8	88	2	20	71-121	
1,1,2-Trichloroethane	50.0	45.4	91	5	20	80-119	
1,1-Dichloroethane	50.0	46.1	92	1	20	77-125	
1,1-Dichloroethene	50.0	47.4	95	1	20	71-131	
1,1-Dichloropropene	50.0	46.7	93	1	20	79-125	
1,2,3-Trichlorobenzene	50.0	50.2	100	0	20	69-129	
1,2,3-Trichloropropane	50.0	43.3	87	1	20	73-122	
1,2,4-Trimethylbenzene	50.0	48.7	97	3	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	44.8	90	9	20	62-128	
1,2-Dibromoethane	50.0	44.6	89	5	20	80-120	
1,2-Dichloroethane	50.0	47.8	96	2	20	73-128	
1,2-Dichloropropane	50.0	47.2	94	1	20	78-122	
1,3,5-Trimethylbenzene	50.0	48.6	97	1	20	75-124	
1,3-Dichloropropane	50.0	46.2	92	4	20	80-119	
2,2-Dichloropropane	50.0	48.2	96	0	20	60-139	
2-Butanone (MEK)	50.0	49.7	99	5	20	56-143	
2-Chlorotoluene	50.0	47.0	94	0	20	79-122	
2-Hexanone	50.0	43.2	86	9	20	57-139	
4-Chlorotoluene	50.0	47.6	95	1	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	49.8	100	8	20	67-130	
Acetone	50.0	44.3	89	2	20	39-160	
Benzene	50.0	44.4	89	1	20	79-120	
Bromobenzene	50.0	49.7	99	1	20	80-120	
Bromochloromethane	50.0	50.0	100	2	20	78-123	
Bromodichloromethane	50.0	50.2	100	3	20	79-125	
Bromoform	50.0	48.6	97	6	20	66-130	
Bromomethane	50.0	56.1	112	1	20	53-141	
Carbon disulfide	50.0	47.1	94	0	20	64-133	
Carbon tetrachloride	50.0	49.2	98	4	20	72-136	
Chlorobenzene	50.0	46.2	92	1	20	82-118	
Chloroethane	50.0	48.2	96	6	20	60-138	
Chloroform	50.0	46.1	92	1	20	79-124	
Chloromethane	50.0	48.6	97	0	20	50-139	
cis-1,2-Dichloroethene	50.0	49.0	98	4	20	78-123	
cis-1,3-Dichloropropene	50.0	52.2	104	2	20	75-124	
Dibromochloromethane	50.0	49.2	98	4	20	74-126	
Dibromomethane	50.0	50.6	101	4	20	79-123	
Dichlorodifluoromethane	50.0	52.0	104	1	20	32-152	
Ethylbenzene	50.0	45.9	92	2	20	79-121	
Isopropylbenzene	50.0	48.5	97	1	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: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS8186.D

Lab ID: LCSD 160-320393/5 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	48.6	97	4	20	80-121	
Methyl tert-butyl ether	50.0	49.2	98	4	20	71-124	
Methylene Chloride	50.0	45.4	91	1	20	74-124	
Naphthalene	50.0	48.5	97	0	20	61-128	
n-Butylbenzene	50.0	51.3	103	3	20	75-128	
N-Propylbenzene	50.0	47.9	96	1	20	76-126	
o-Xylene	50.0	48.9	98	2	20	78-122	
p-Isopropyltoluene	50.0	49.5	99	1	20	77-127	
sec-Butylbenzene	50.0	47.9	96	1	20	77-126	
Styrene	50.0	49.1	98	3	20	78-123	
tert-Butylbenzene	50.0	48.2	96	0	20	78-124	
Tetrachloroethene	50.0	48.4	97	3	20	74-129	
Toluene	50.0	46.2	92	2	20	80-121	
trans-1,2-Dichloroethene	50.0	47.1	94	2	20	75-124	
trans-1,3-Dichloropropene	50.0	50.7	101	4	20	73-127	
Trichloroethene	50.0	44.0	88	0	20	79-123	
Trichlorofluoromethane	50.0	56.4	113	4	20	65-141	
Vinyl chloride	50.0	48.4	97	2	20	58-137	
Xylenes (total)	100	97.5	98	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: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP8172.D

Lab ID: 280-99527-1 MS Client ID: 6MW2005MS 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	2.0 U	50.0	100	78-124	
1,1,1-Trichloroethane	50.0	1.0 U	50.6	101	74-131	
1,1,2,2-Tetrachloroethane	50.0	2.0 U	44.9	90	71-121	
1,1,2-Trichloroethane	50.0	1.0 U	46.0	92	80-119	
1,1-Dichloroethane	50.0	1.0 U	49.1	98	77-125	
1,1-Dichloroethene	50.0	1.0 U	50.1	100	71-131	
1,1-Dichloropropene	50.0	1.0 U	49.1	98	79-125	
1,2,3-Trichlorobenzene	50.0	2.0 U	52.2	104	69-129	
1,2,3-Trichloropropane	50.0	1.0 U	46.1	92	73-122	
1,2,4-Trimethylbenzene	50.0	2.0 U	50.1	100	76-124	
1,2-Dibromo-3-Chloropropane	50.0	2.0 U	44.9	90	62-128	
1,2-Dibromoethane	50.0	2.0 U	44.7	89	80-120	
1,2-Dichloroethane	50.0	1.0 U	50.8	102	73-128	
1,2-Dichloropropane	50.0	1.0 U	50.5	101	78-122	
1,3,5-Trimethylbenzene	50.0	2.0 U	49.8	100	75-124	
1,3-Dichloropropane	50.0	1.0 U	47.2	94	80-119	
2,2-Dichloropropane	50.0	2.0 U	51.8	104	60-139	
2-Butanone (MEK)	50.0	5.0 U	49.6	99	56-143	
2-Chlorotoluene	50.0	2.0 U	48.8	98	79-122	
2-Hexanone	50.0	2.0 U	41.4	83	57-139	
4-Chlorotoluene	50.0	2.0 U	49.0	98	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	2.0 U	49.1	98	67-130	
Acetone	50.0	10 U	48.0	96	39-160	
Benzene	50.0	1.0 U	48.1	96	79-120	
Bromobenzene	50.0	2.0 U	51.2	102	80-120	
Bromochloromethane	50.0	2.0 U	54.4	109	78-123	
Bromodichloromethane	50.0	2.0 U	53.3	107	79-125	
Bromoform	50.0	1.0 U	49.1	98	66-130	
Bromomethane	50.0	2.0 U	56.8	114	53-141	
Carbon disulfide	50.0	1.0 U	51.3	103	64-133	
Carbon tetrachloride	50.0	1.0 U	50.1	100	72-136	
Chlorobenzene	50.0	1.0 U	49.1	98	82-118	
Chloroethane	50.0	1.0 U	48.7	97	60-138	
Chloroform	50.0	1.0 U	49.0	98	79-124	
Chloromethane	50.0	2.0 U	43.7	87	50-139	
cis-1,2-Dichloroethene	50.0	0.46 J	51.2	101	78-123	
cis-1,3-Dichloropropene	50.0	1.0 U	54.9	110	75-124	
Dibromochloromethane	50.0	1.0 U	51.0	102	74-126	
Dibromomethane	50.0	2.0 U	52.4	105	79-123	
Dichlorodifluoromethane	50.0	2.0 U	52.3	105	32-152	
Ethylbenzene	50.0	1.0 U	48.4	97	79-121	
Isopropylbenzene	50.0	2.0 U	49.0	98	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: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP8172.D

Lab ID: 280-99527-1 MS Client ID: 6MW2005MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	1.0 U	50.0	100	80-121	
Methyl tert-butyl ether	50.0	2.0 U	49.8	100	71-124	
Methylene Chloride	50.0	5.0 U	48.0	96	74-124	
Naphthalene	50.0	2.0 U	49.6	99	61-128	
n-Butylbenzene	50.0	2.0 U	54.3	109	75-128	
N-Propylbenzene	50.0	2.0 U	48.9	98	76-126	
o-Xylene	50.0	1.0 U	50.7	101	78-122	
p-Isopropyltoluene	50.0	2.0 U	50.7	101	77-127	
sec-Butylbenzene	50.0	2.0 U	49.5	99	77-126	
Styrene	50.0	1.0 U	51.2	102	78-123	
tert-Butylbenzene	50.0	2.0 U	49.4	99	78-124	
Tetrachloroethene	50.0	1.0 U	48.9	98	74-129	
Toluene	50.0	1.0 U	47.9	96	80-121	
trans-1,2-Dichloroethene	50.0	1.0 U	49.4	99	75-124	
trans-1,3-Dichloropropene	50.0	1.0 U	51.9	104	73-127	
Trichloroethene	50.0	1.0 U	47.6	95	79-123	
Trichlorofluoromethane	50.0	2.0 U	60.9	122	65-141	
Vinyl chloride	50.0	1.0 U	48.7	97	58-137	
Xylenes (total)	100	5.0 U	101	101	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: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP8173.D

Lab ID: 280-99527-1 MSD Client ID: 6MW2005MSD 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	48.9	98	2	20	78-124	
1,1,1-Trichloroethane	50.0	49.3	99	3	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	43.7	87	3	20	71-121	
1,1,2-Trichloroethane	50.0	44.5	89	3	20	80-119	
1,1-Dichloroethane	50.0	47.2	94	4	20	77-125	
1,1-Dichloroethene	50.0	47.7	95	5	20	71-131	
1,1-Dichloropropene	50.0	47.6	95	3	20	79-125	
1,2,3-Trichlorobenzene	50.0	51.3	103	2	20	69-129	
1,2,3-Trichloropropane	50.0	43.9	88	5	20	73-122	
1,2,4-Trimethylbenzene	50.0	46.9	94	7	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	43.3	87	4	20	62-128	
1,2-Dibromoethane	50.0	43.9	88	2	20	80-120	
1,2-Dichloroethane	50.0	50.5	101	1	20	73-128	
1,2-Dichloropropane	50.0	49.6	99	2	20	78-122	
1,3,5-Trimethylbenzene	50.0	46.7	93	6	20	75-124	
1,3-Dichloropropane	50.0	46.6	93	1	20	80-119	
2,2-Dichloropropane	50.0	50.8	102	2	20	60-139	
2-Butanone (MEK)	50.0	49.7	99	0	20	56-143	
2-Chlorotoluene	50.0	45.5	91	7	20	79-122	
2-Hexanone	50.0	42.8	86	3	20	57-139	
4-Chlorotoluene	50.0	45.5	91	7	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	49.3	99	0	20	67-130	
Acetone	50.0	46.7	93	3	20	39-160	
Benzene	50.0	46.4	93	3	20	79-120	
Bromobenzene	50.0	48.3	97	6	20	80-120	
Bromochloromethane	50.0	52.9	106	3	20	78-123	
Bromodichloromethane	50.0	52.1	104	2	20	79-125	
Bromoform	50.0	47.6	95	3	20	66-130	
Bromomethane	50.0	54.1	108	5	20	53-141	
Carbon disulfide	50.0	49.8	100	3	20	64-133	
Carbon tetrachloride	50.0	49.2	98	2	20	72-136	
Chlorobenzene	50.0	46.6	93	5	20	82-118	
Chloroethane	50.0	47.0	94	4	20	60-138	
Chloroform	50.0	47.9	96	2	20	79-124	
Chloromethane	50.0	42.3	85	3	20	50-139	
cis-1,2-Dichloroethene	50.0	50.1	99	2	20	78-123	
cis-1,3-Dichloropropene	50.0	52.4	105	5	20	75-124	
Dibromochloromethane	50.0	49.9	100	2	20	74-126	
Dibromomethane	50.0	52.2	104	0	20	79-123	
Dichlorodifluoromethane	50.0	52.1	104	0	20	32-152	
Ethylbenzene	50.0	46.1	92	5	20	79-121	
Isopropylbenzene	50.0	46.2	92	6	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: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP8173.D

Lab ID: 280-99527-1 MSD Client ID: 6MW2005MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m,p-Xylenes	50.0	47.5	95	5	20	80-121	
Methyl tert-butyl ether	50.0	50.1	100	1	20	71-124	
Methylene Chloride	50.0	47.6	95	1	20	74-124	
Naphthalene	50.0	49.8	100	0	20	61-128	
n-Butylbenzene	50.0	51.2	102	6	20	75-128	
N-Propylbenzene	50.0	46.2	92	6	20	76-126	
o-Xylene	50.0	48.5	97	4	20	78-122	
p-Isopropyltoluene	50.0	49.2	98	3	20	77-127	
sec-Butylbenzene	50.0	46.5	93	6	20	77-126	
Styrene	50.0	49.8	100	3	20	78-123	
tert-Butylbenzene	50.0	46.4	93	6	20	78-124	
Tetrachloroethene	50.0	46.4	93	5	20	74-129	
Toluene	50.0	46.2	92	4	20	80-121	
trans-1,2-Dichloroethene	50.0	48.0	96	3	20	75-124	
trans-1,3-Dichloropropene	50.0	50.0	100	4	20	73-127	
Trichloroethene	50.0	46.4	93	3	20	79-123	
Trichlorofluoromethane	50.0	58.4	117	4	20	65-141	
Vinyl chloride	50.0	45.8	92	6	20	58-137	
Xylenes (total)	100	96.0	96	5	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: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab File ID: XBLK8168.D Lab Sample ID: MB 160-320257/6

Matrix: Water Heated Purge:(Y/N) Y

Instrument ID: VMSX Date Analyzed: 08/01/2017 17:50

GC Column: RTXVMS30 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 160-320257/4	XLCS8166.D	08/01/2017 16:34
TB06	280-99527-10	XSMP8169.D	08/01/2017 18:16
FB02	280-99527-11	XSMP8170.D	08/01/2017 18:55
6MW2005	280-99527-1	XSMP8171.D	08/01/2017 19:21
6MW2005MS MS	280-99527-1 MS	XSMP8172.D	08/01/2017 19:47
6MW2005MSD MSD	280-99527-1 MSD	XSMP8173.D	08/01/2017 20:13
6MW2205	280-99527-5	XSMP8175.D	08/01/2017 21:07
6MW2305	280-99527-6	XSMP8176.D	08/01/2017 21:32
6MW2405	280-99527-7	XSMP8177.D	08/01/2017 21:58
6MW2605	280-99527-9	XSMP8179.D	08/01/2017 22:50
6MW2005D	280-99527-13	XSMP8180.D	08/01/2017 23:26

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab File ID: XBLK8188.D Lab Sample ID: MB 160-320393/7

Matrix: Water Heated Purge:(Y/N) Y

Instrument ID: VMSX Date Analyzed: 08/02/2017 18:45

GC Column: RTXVMS30 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 160-320393/4	XLCS8185.D	08/02/2017 17:20
	LCSD 160-320393/5	XLCS8186.D	08/02/2017 17:50
6MW2505 RA	280-99527-8 RA	XSMP8189.D	08/02/2017 19:10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab File ID: XBFB7917.D BFB Injection Date: 06/30/2017

Instrument ID: VMSX BFB Injection Time: 08:28

Analysis Batch No.: 315895

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.6	
75	30.0 - 60.0 % of mass 95	42.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.2	(0.3) 1
174	50.0 - 120.00 % of mass 95	62.5	
175	5.0 - 9.0 % of mass 174	4.7	(7.5) 1
176	95.0 - 101.0 % of mass 174	60.4	(96.7) 1
177	5.0 - 9.0 % of mass 176	3.7	(6.2) 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 160-315895/2	XICL7919.D	06/30/2017	09:17
	IC 160-315895/3	XICL7920.D	06/30/2017	09:42
	IC 160-315895/4	XICL7921.D	06/30/2017	10:07
	IC 160-315895/5	XICL7922.D	06/30/2017	10:32
	IC 160-315895/6	XICL7923.D	06/30/2017	10:57
	ICIS 160-315895/7	XICL7924.D	06/30/2017	11:22
	IC 160-315895/8	XICL7925.D	06/30/2017	11:47
	IC 160-315895/9	XICL7926.D	06/30/2017	12:12
	ICV 160-315895/12	XICV7928.D	06/30/2017	13:01

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab File ID: XBFB8164.D BFB Injection Date: 08/01/2017

Instrument ID: VMSX BFB Injection Time: 15:27

Analysis Batch No.: 320257

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.9	
75	30.0 - 60.0 % of mass 95	44.1	
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	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	64.8	
175	5.0 - 9.0 % of mass 174	4.2	(6.5) 1
176	95.0 - 101.0 % of mass 174	61.7	(95.3) 1
177	5.0 - 9.0 % of mass 176	3.8	(6.1) 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 160-320257/3	XCCV8165.D	08/01/2017	15:49
	LCS 160-320257/4	XLCS8166.D	08/01/2017	16:34
	MB 160-320257/6	XBLK8168.D	08/01/2017	17:50
TB06	280-99527-10	XSMP8169.D	08/01/2017	18:16
FB02	280-99527-11	XSMP8170.D	08/01/2017	18:55
6MW2005	280-99527-1	XSMP8171.D	08/01/2017	19:21
6MW2005MS MS	280-99527-1 MS	XSMP8172.D	08/01/2017	19:47
6MW2005MSD MSD	280-99527-1 MSD	XSMP8173.D	08/01/2017	20:13
6MW2205	280-99527-5	XSMP8175.D	08/01/2017	21:07
6MW2305	280-99527-6	XSMP8176.D	08/01/2017	21:32
6MW2405	280-99527-7	XSMP8177.D	08/01/2017	21:58
6MW2605	280-99527-9	XSMP8179.D	08/01/2017	22:50
6MW2005D	280-99527-13	XSMP8180.D	08/01/2017	23:26
	CCVC 160-320257/19	XCCV8181.D	08/01/2017	23:52

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab File ID: XBFB8183.D BFB Injection Date: 08/02/2017

Instrument ID: VMSX BFB Injection Time: 16:21

Analysis Batch No.: 320393

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.6	
75	30.0 - 60.0 % of mass 95	43.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	64.8	
175	5.0 - 9.0 % of mass 174	4.3	(6.7) 1
176	95.0 - 101.0 % of mass 174	62.8	(97.0) 1
177	5.0 - 9.0 % of mass 176	3.9	(6.2) 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 160-320393/3	XCCV8184.D	08/02/2017	16:44
	LCS 160-320393/4	XLCS8185.D	08/02/2017	17:20
	LCSD 160-320393/5	XLCS8186.D	08/02/2017	17:50
	MB 160-320393/7	XBLK8188.D	08/02/2017	18:45
6MW2505 RA	280-99527-8 RA	XSMP8189.D	08/02/2017	19:10
	CCVC 160-320393/9	XCCV8190.D	08/02/2017	19:36

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Sample No.: ICIS 160-315895/7 Date Analyzed: 06/30/2017 11:22

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm)

Lab File ID (Standard): XICL7924.D Heated Purge: (Y/N) Y

Calibration ID: 13065

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2005179	8.27	1183986	11.99	450773	14.20
UPPER LIMIT		4010358	8.77	2367972	12.49	901546	14.70
LOWER LIMIT		1002590	7.77	591993	11.49	225387	13.70
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 160-315895/12		1993760	8.26	1158427	11.99	431407	14.20
CCV 160-320257/3		1757567	8.26	1067648	11.98	425103	14.20
LCS 160-320257/4		1821827	8.26	1111764	11.98	435578	14.20
MB 160-320257/6		1826860	8.26	1138730	11.98	445299	14.20
280-99527-10	TB06	1783797	8.27	1084132	12.00	449938	14.20
280-99527-11	FB02	1758409	8.26	1045080	12.00	421943	14.20
280-99527-1	6MW2005	1597172	8.27	1003576	12.00	422140	14.20
280-99527-1 MS	6MW2005MS MS	1566085	8.27	987019	12.00	396617	14.20
280-99527-1 MSD	6MW2005MSD MSD	1548940	8.27	980394	12.00	402829	14.20
280-99527-5	6MW2205	1387644	8.27	906009	12.00	371510	14.20
280-99527-6	6MW2305	1607292	8.27	1007347	12.00	414892	14.20
280-99527-7	6MW2405	1609885	8.27	1014209	12.00	409443	14.20
280-99527-9	6MW2605	1547667	8.27	966772	12.00	395959	14.20
280-99527-13	6MW2005D	1484413	8.26	944336	12.00	378976	14.20
CCVC 160-320257/19		1607821	8.27	994992	12.00	384660	14.20
CCV 160-320393/3		1697901	8.26	1034640	11.98	403606	14.20
LCS 160-320393/4		1760895	8.26	1081003	11.98	427263	14.20
LCSD 160-320393/5		1779685	8.26	1079209	12.00	426665	14.20
MB 160-320393/7		1825439	8.27	1102479	12.00	438008	14.20
280-99527-8 RA	6MW2505 RA	1539558	8.27	972734	12.00	408817	14.20
CCVC 160-320393/9		1728949	8.27	1052733	12.00	417547	14.20

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: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2005 | Lab Sample ID: 280-99527-1

Matrix: Water | Lab File ID: XSMP8171.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 19:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U Q	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	0.46	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2005 | Lab Sample ID: 280-99527-1

Matrix: Water | Lab File ID: XSMP8171.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 19:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		81-118
460-00-4	4-Bromofluorobenzene (Surr)	86		85-114
1868-53-7	Dibromofluoromethane (Surr)	109		80-119
2037-26-5	Toluene-d8 (Surr)	95		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8171.D
Lims ID: 280-99527-B-1
Client ID: 6MW2005
Sample Type: Client
Inject. Date: 01-Aug-2017 19:21:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-009
Misc. Info.: 280-99527-B-1
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:53:47 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:54:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.878				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.043				ND	
3 Chloromethane	50		2.091				ND	
4 Vinyl chloride	62		2.197				ND	
121 Butadiene	39		2.209				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
122 Dichlorofluoromethane	67		3.014				ND	
8 Ethyl ether	74		3.357				ND	
9 1,1-Dichloroethene	96		3.605				ND	
10 Carbon disulfide	76		3.605				ND	
11 Ethanol	45		3.605				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		3.700				ND	
13 Iodomethane	142		3.795				ND	
14 Acrolein	56		4.138				ND	
15 3-Chloro-1-propene	39		4.351				ND	
16 Isopropyl alcohol	45	4.493	4.493	0.000	95	5980	32.0	
17 Methylene Chloride	84		4.528				ND	
18 Acetone	43		4.647				ND	
19 trans-1,2-Dichloroethene	96		4.789				ND	
20 Methyl acetate	74		4.871				ND	
21 Hexane	86		4.942				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
23 2-Methyl-2-propanol	59		5.238				ND	
24 Acetonitrile	41		5.380				ND	
25 Isopropyl ether	45		5.641				ND	
27 2-Chloro-1,3-butadiene	53		5.723				ND	
28 1,1-Dichloroethane	63		5.759				ND	
S 26 1,2-Dichloroethene, Total	96				0		0.4604	
29 Acrylonitrile	53		5.865				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		6.185				ND	
31 Vinyl acetate	43		6.197				ND	
32 cis-1,2-Dichloroethene	96	6.563	6.552	0.011	73	4224	0.4604	
33 2,2-Dichloropropane	77		6.705				ND	
34 Cyclohexane	84		6.800				ND	
35 Chlorobromomethane	128		6.824				ND	
36 Chloroform	83		6.954				ND	
37 Carbon tetrachloride	117		7.108				ND	
38 Tetrahydrofuran	71		7.167				ND	
39 Ethyl acetate	45		7.179				ND	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	93	335939	54.3	
40 1,1,1-Trichloroethane	97		7.202				ND	
42 1,1-Dichloropropene	75		7.380				ND	
43 2-Butanone (MEK)	43		7.392				ND	
124 Isooctane	57		7.546				ND	
117 n-Heptane	43		7.699				ND	
44 Benzene	78		7.699				ND	
45 Propionitrile	54		7.770				ND	
46 Methacrylonitrile	41		7.794				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	31	333077	57.2	
48 Tert-amyl methyl ether	73		7.901				ND	
49 1,2-Dichloroethane	62		7.983				ND	
50 Isobutyl alcohol	42		8.102				ND	
* 51 Fluorobenzene	96	8.267	8.267	0.000	99	1597172	50.0	
125 1,4-Difluorobenzene	114		8.427				ND	
52 Methylcyclohexane	55		8.445				ND	
53 Trichloroethene	95		8.469				ND	
A 126 C6-C12	1	8.921	(3.966-13.876)		0	690398	NC	
54 n-Butanol	56		8.989				ND	
55 Dibromomethane	93		9.001				ND	
56 1,2-Dichloropropane	63		9.131				ND	
123 Ethyl acrylate	55		9.226				ND	
57 Dichlorobromomethane	83		9.226				ND	
58 Methyl methacrylate	69		9.474				ND	
59 1,4-Dioxane	88		9.498				ND	
128 2-Pentanone	43		9.634				ND	
60 2-Chloroethyl vinyl ether	63		9.983				ND	
61 cis-1,3-Dichloropropene	75		10.031				ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	94	1526926	47.6	
63 Toluene	92		10.315				ND	
64 2-Nitropropane	43		10.622				ND	
65 Tetrachloroethene	164		10.776				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.811				ND	
67 trans-1,3-Dichloropropene	75		10.835				ND	
68 1,1,2-Trichloroethane	83		11.013				ND	
69 Ethyl methacrylate	69		11.048				ND	
70 Chlorodibromomethane	129		11.202				ND	
71 1,3-Dichloropropane	76		11.308				ND	
72 Ethylene Dibromide	107		11.450				ND	
S 73 1,3-Dichloropropene, Total	75		11.620				ND	
118 n-Butyl acetate	43		11.640				ND	
74 2-Hexanone	43		11.723				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.995	11.995	0.000	87	1003576	50.0	
75 1-Chlorohexane	91		12.007				ND	
77 Chlorobenzene	112		12.007				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.078				ND	
80 m-Xylene & p-Xylene	106		12.196				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.669				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	82	484517	42.9	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.308				ND	
89 1,1,2,2-Tetrachloroethane	83		13.379				ND	
90 2-Chlorotoluene	91		13.450				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.498				ND	
93 trans-1,4-Dichloro-2-buten	53		13.533				ND	
94 Cyclohexanone	55		13.545				ND	
95 4-Chlorotoluene	91		13.604				ND	
81 Pentachloroethane	167		13.776				ND	
96 tert-Butylbenzene	119		13.782				ND	
97 1,2,4-Trimethylbenzene	105		13.841				ND	
98 sec-Butylbenzene	105		13.935				ND	
99 4-Isopropyltoluene	119		14.066				ND	
100 1,3-Dichlorobenzene	146		14.125				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	97	422140	50.0	
102 1,4-Dichlorobenzene	146		14.208				ND	
119 1,2,3-Trimethylbenzene	105		14.231				ND	
103 n-Butylbenzene	134		14.432				ND	
120 Benzyl chloride	126		14.432				ND	
104 1,2-Dichlorobenzene	146		14.574				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.272				ND	
106 n-Nonyl Aldehyde	57		15.284				ND	
107 1,3,5-Trichlorobenzene	180		15.296				ND	
108 Hexachlorobutadiene	225		15.805				ND	
109 1,2,4-Trichlorobenzene	180		15.840				ND	
110 Naphthalene	128		16.113				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	
S 113 Trihalomethanes, Total	1		0.000				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

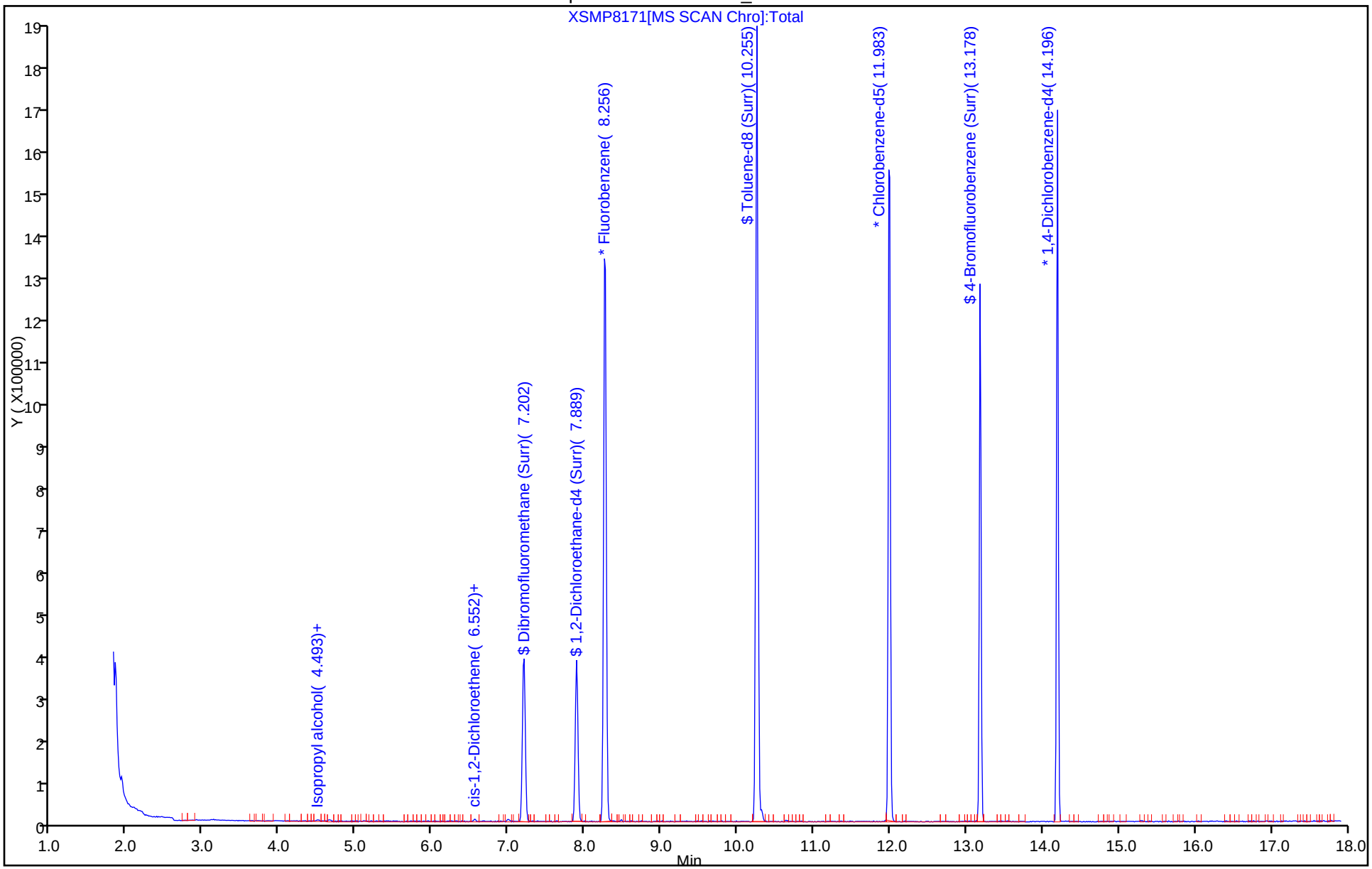
Reagents:

I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:54:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File:	\\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8171.D				
Injection Date:	01-Aug-2017 19:21:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-99527-B-1	Lab Sample ID:	160-99527-1	Worklist Smp#:	9
Client ID:	6MW2005				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8171.D
Lims ID: 280-99527-B-1
Client ID: 6MW2005
Sample Type: Client
Inject. Date: 01-Aug-2017 19:21:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-009
Misc. Info.: 280-99527-B-1
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:53:47 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:54:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	54.3	108.65
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	57.2	114.31
$ 62 Toluene-d8 (Surr)	50.0	47.6	95.15
$ 86 4-Bromofluorobenzene (Surr)	50.0	42.9	85.79

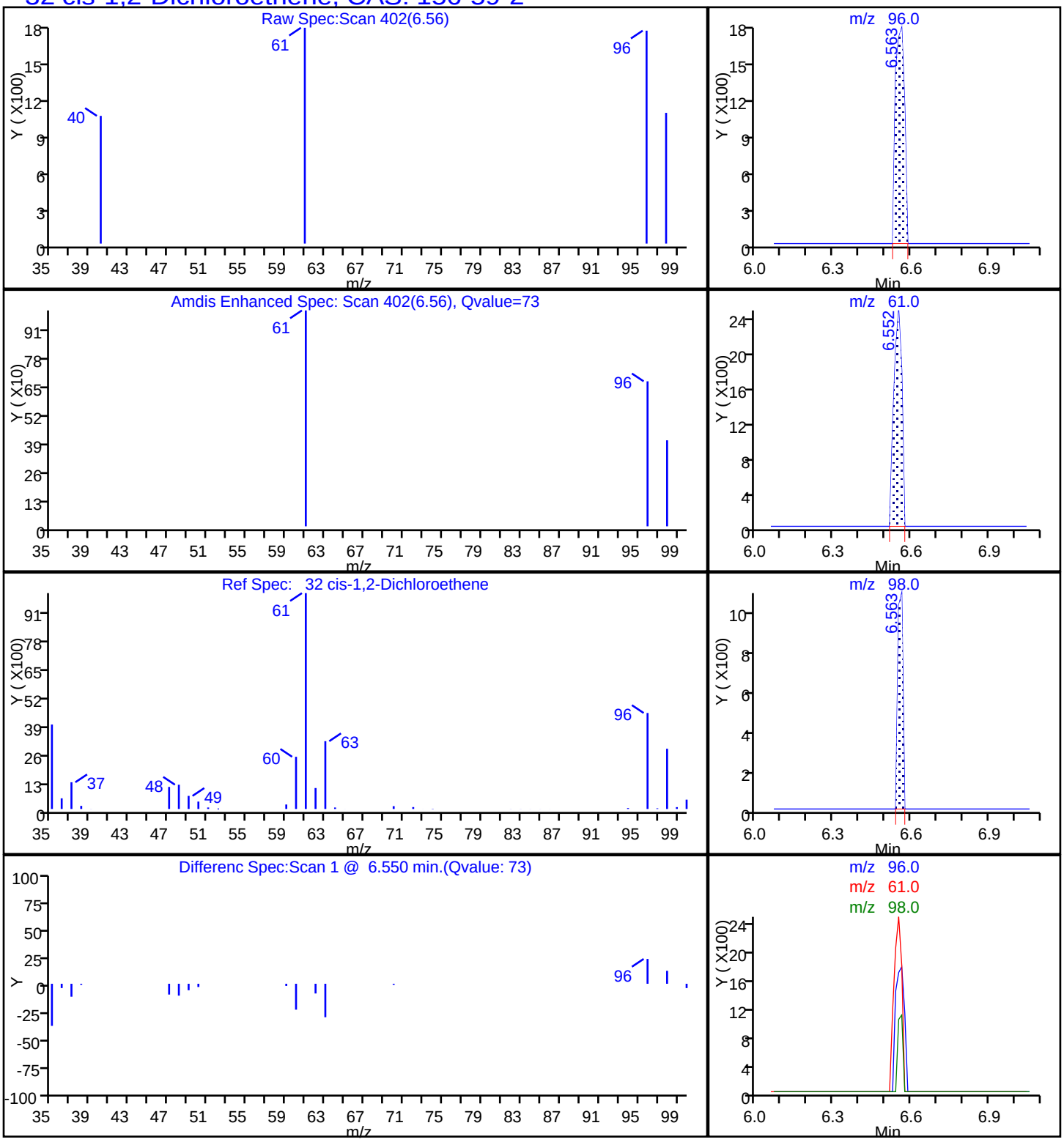
Report Date: 02-Aug-2017 15:54:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8171.D

Injection Date:	01-Aug-2017 19:21:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-1	Lab Sample ID:	160-99527-1		
Client ID:	6MW2005				
Operator ID:	JDH	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	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: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2205 | Lab Sample ID: 280-99527-5

Matrix: Water | Lab File ID: XSMP8175.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 11:05

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 21:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U Q	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U Q	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U Q	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U Q	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U Q	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U Q	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	45		20	10	6.7
71-43-2	Benzene	1.0	U Q	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U Q	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	3.3	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2205 | Lab Sample ID: 280-99527-5

Matrix: Water | Lab File ID: XSMP8175.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 11:05

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 21:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U Q	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U Q	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.4	J	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.7	J Q	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	2.3	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121	Q	81-118
460-00-4	4-Bromofluorobenzene (Surr)	89		85-114
1868-53-7	Dibromofluoromethane (Surr)	112		80-119
2037-26-5	Toluene-d8 (Surr)	92		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8175.D
Lims ID: 280-99527-B-5
Client ID: 6MW2205
Sample Type: Client
Inject. Date: 01-Aug-2017 21:07:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-013
Misc. Info.: 280-99527-B-5
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:47:44 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:42:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.878				ND	
3 Chloromethane	50		2.091				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	95	18769	2.33	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.605				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.528				ND	
18 Acetone	43	4.646	4.647	-0.001	99	47196	45.3	
19 trans-1,2-Dichloroethene	96		4.789				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	79	26337	3.30	
33 2,2-Dichloropropane	77		6.705				ND	
35 Chlorobromomethane	128		6.824				ND	
36 Chloroform	83		6.954				ND	
37 Carbon tetrachloride	117		7.108				ND	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	93	300093	55.9	
40 1,1,1-Trichloroethane	97		7.202				ND	
42 1,1-Dichloropropene	75		7.380				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.699				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	31	307411	60.7	
49 1,2-Dichloroethane	62		7.983				ND	
* 51 Fluorobenzene	96	8.267	8.267	0.000	99	1387644	50.0	
53 Trichloroethene	95	8.469	8.469	-0.001	90	14106	1.73	
55 Dibromomethane	93		9.001				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.226				ND	
61 cis-1,3-Dichloropropene	75		10.031				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	94	1334348	46.1	
63 Toluene	92		10.315				ND	
65 Tetrachloroethene	164	10.764	10.776	-0.012	90	8570	1.40	
66 4-Methyl-2-pentanone (MIBK	43		10.811				ND	
67 trans-1,3-Dichloropropene	75		10.835				ND	
68 1,1,2-Trichloroethane	83		11.013				ND	
70 Chlorodibromomethane	129		11.202				ND	
71 1,3-Dichloropropane	76		11.308				ND	
72 Ethylene Dibromide	107		11.450				ND	
74 2-Hexanone	43		11.723				ND	
* 76 Chlorobenzene-d5	117	11.995	11.995	0.000	87	906009	50.0	
77 Chlorobenzene	112		12.007				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.078				ND	
80 m-Xylene & p-Xylene	106		12.196				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.669				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	444227	44.7	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.308				ND	
89 1,1,2,2-Tetrachloroethane	83		13.379				ND	
90 2-Chlorotoluene	91		13.450				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.498				ND	
95 4-Chlorotoluene	91		13.604				ND	
96 tert-Butylbenzene	119		13.782				ND	
97 1,2,4-Trimethylbenzene	105		13.841				ND	
98 sec-Butylbenzene	105		13.935				ND	
99 4-Isopropyltoluene	119		14.066				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	97	371510	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.272				ND	
110 Naphthalene	128		16.113				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

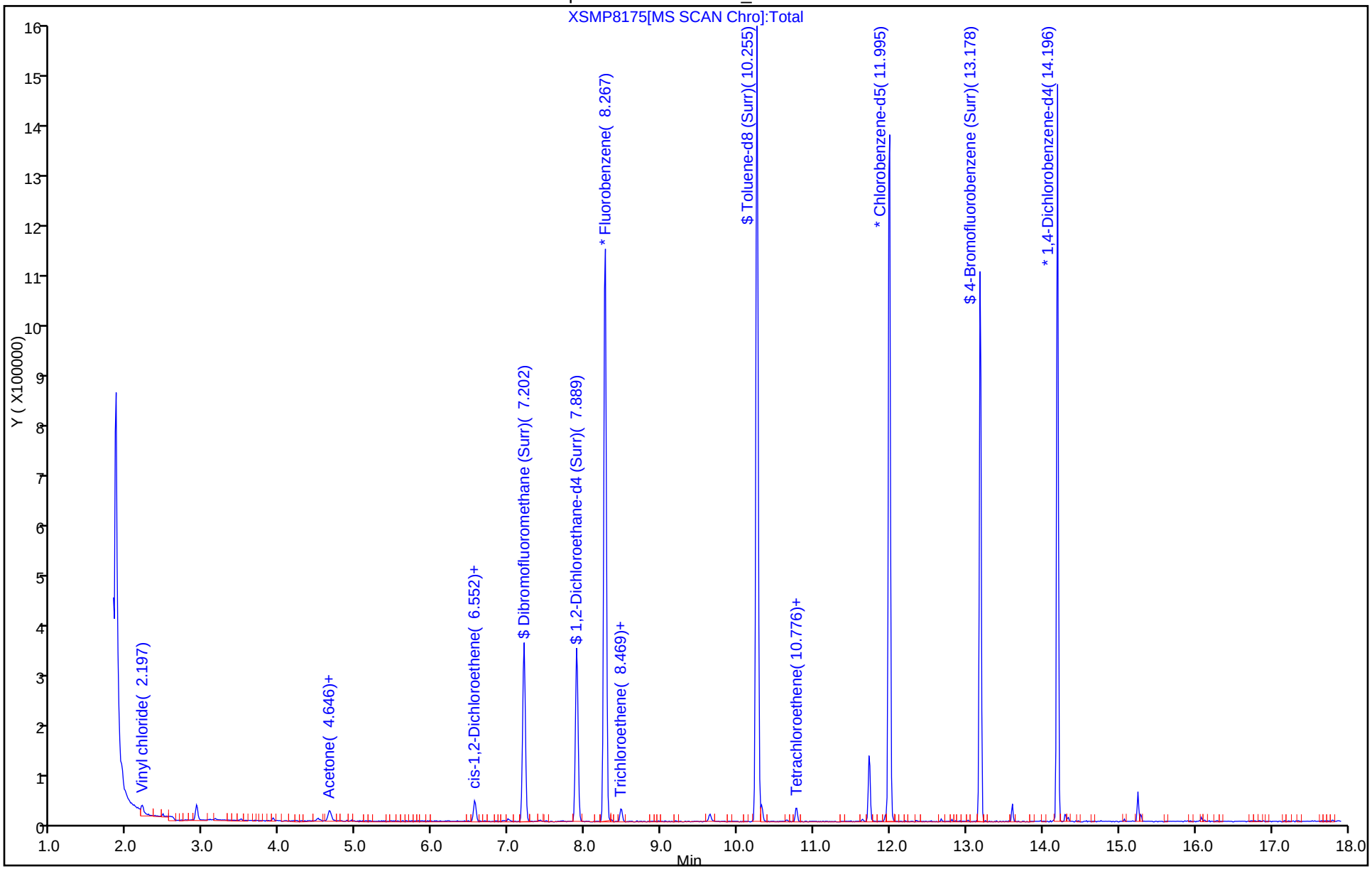
Reagents:

I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:47:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File:	\\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8175.D				
Injection Date:	01-Aug-2017 21:07:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-99527-B-5	Lab Sample ID:	160-99527-5	Worklist Smp#:	13
Client ID:	6MW2205				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8175.D
Lims ID: 280-99527-B-5
Client ID: 6MW2205
Sample Type: Client
Inject. Date: 01-Aug-2017 21:07:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-013
Misc. Info.: 280-99527-B-5
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:47:44 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:42:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	55.9	111.72
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	60.7	121.43
$ 62 Toluene-d8 (Surr)	50.0	46.1	92.10
$ 86 4-Bromofluorobenzene (Surr)	50.0	44.7	89.38

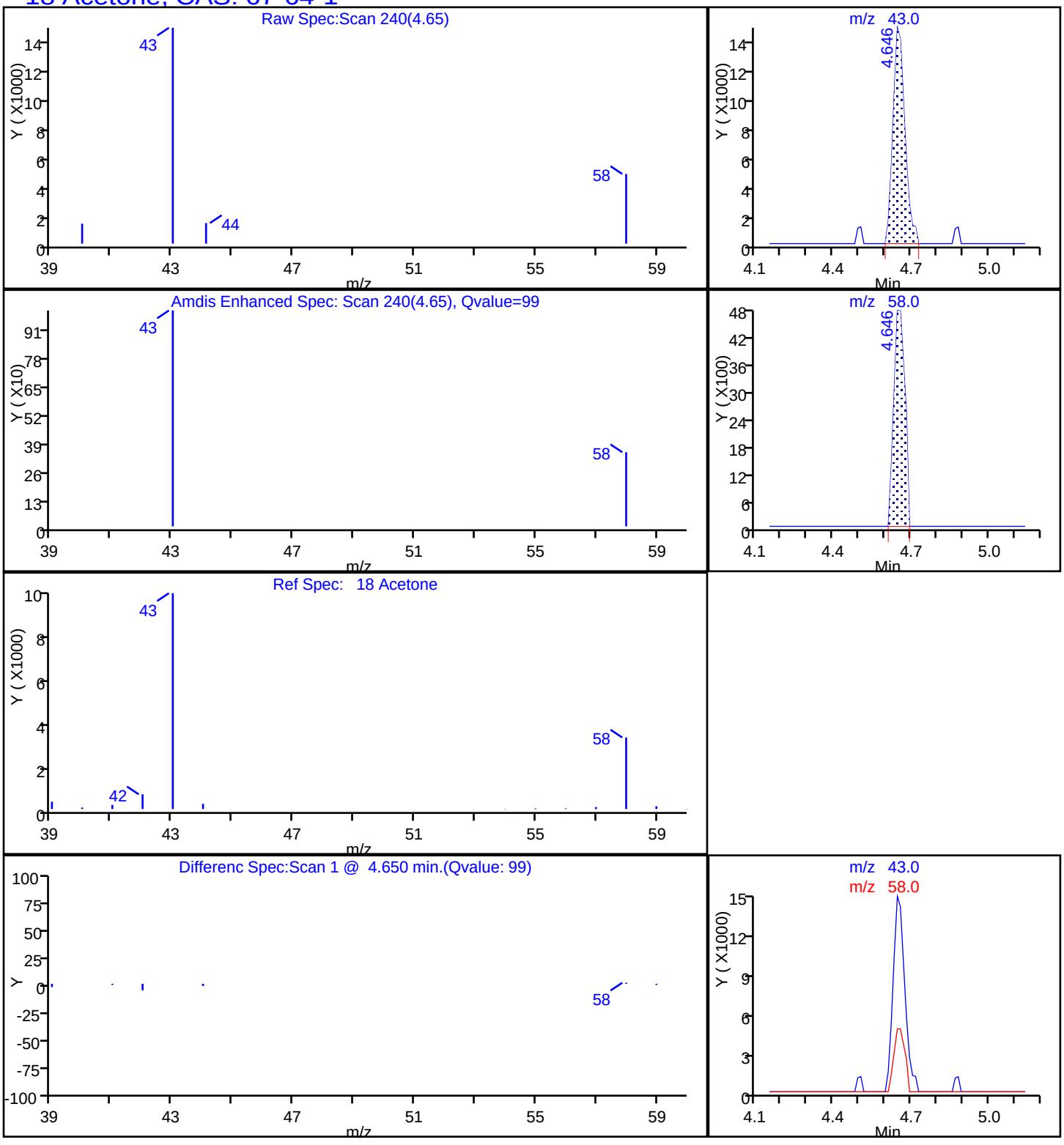
Report Date: 02-Aug-2017 15:47:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8175.D

Injection Date:	01-Aug-2017 21:07:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-5	Lab Sample ID:	160-99527-5		
Client ID:	6MW2205				
Operator ID:	JDH	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



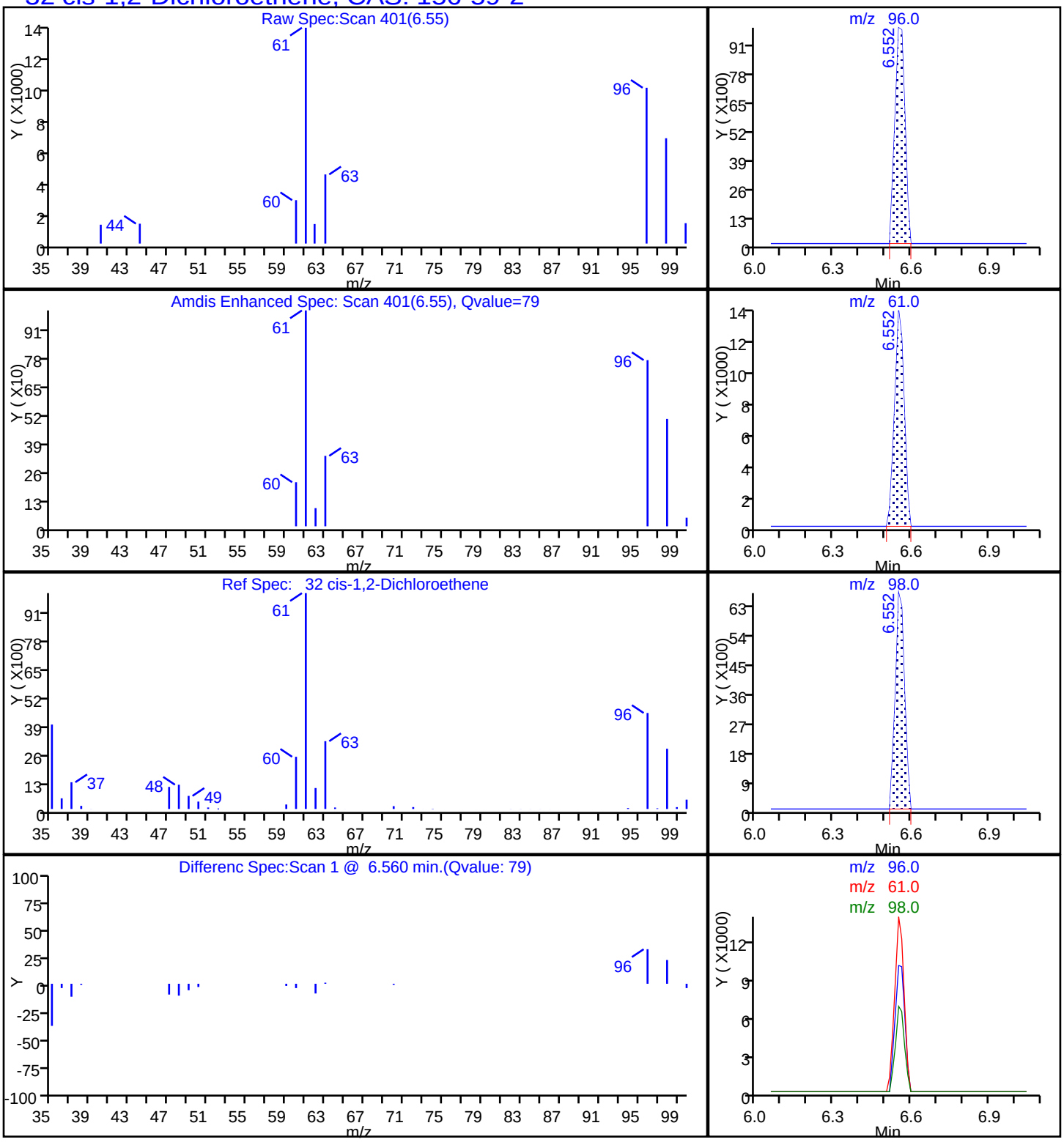
Report Date: 02-Aug-2017 15:47:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8175.D

Injection Date:	01-Aug-2017 21:07:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-5	Lab Sample ID:	160-99527-5		
Client ID:	6MW2205				
Operator ID:	JDH	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

32 cis-1,2-Dichloroethene, CAS: 156-59-2



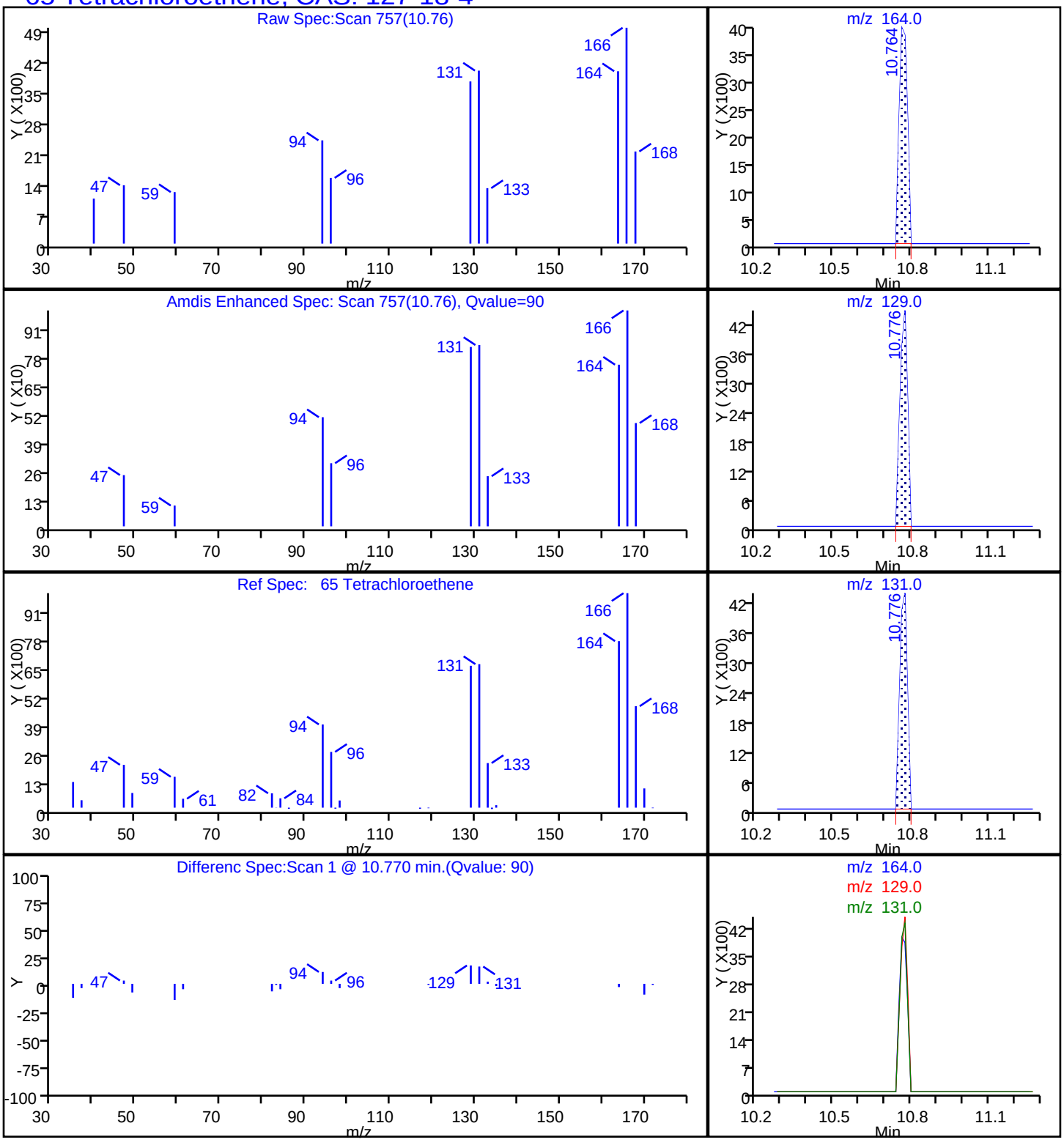
Report Date: 02-Aug-2017 15:47:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8175.D

Injection Date:	01-Aug-2017 21:07:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-5	Lab Sample ID:	160-99527-5		
Client ID:	6MW2205				
Operator ID:	JDH	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

65 Tetrachloroethene, CAS: 127-18-4



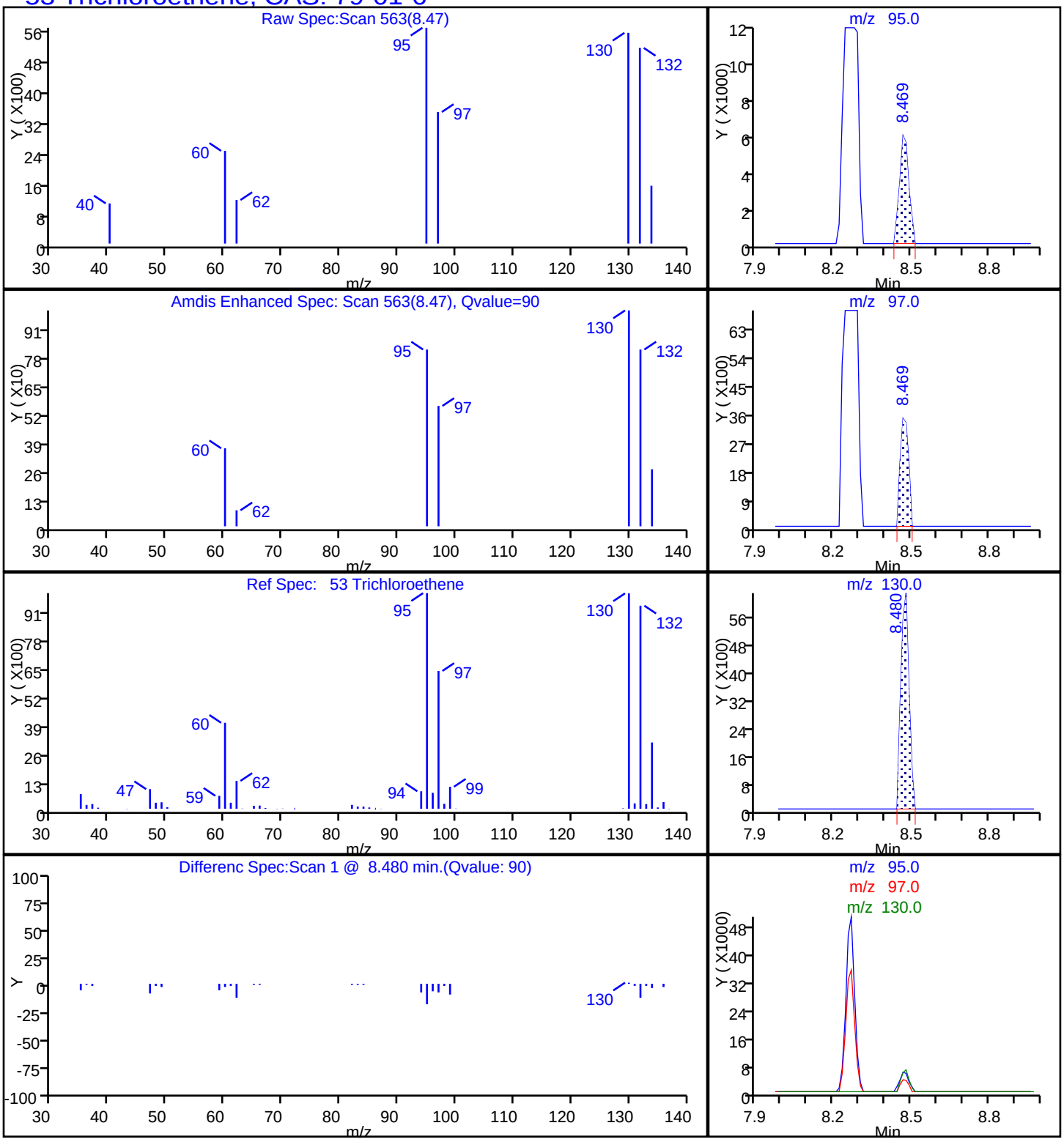
Report Date: 02-Aug-2017 15:47:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8175.D

Injection Date:	01-Aug-2017 21:07:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-5	Lab Sample ID:	160-99527-5		
Client ID:	6MW2205				
Operator ID:	JDH	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6



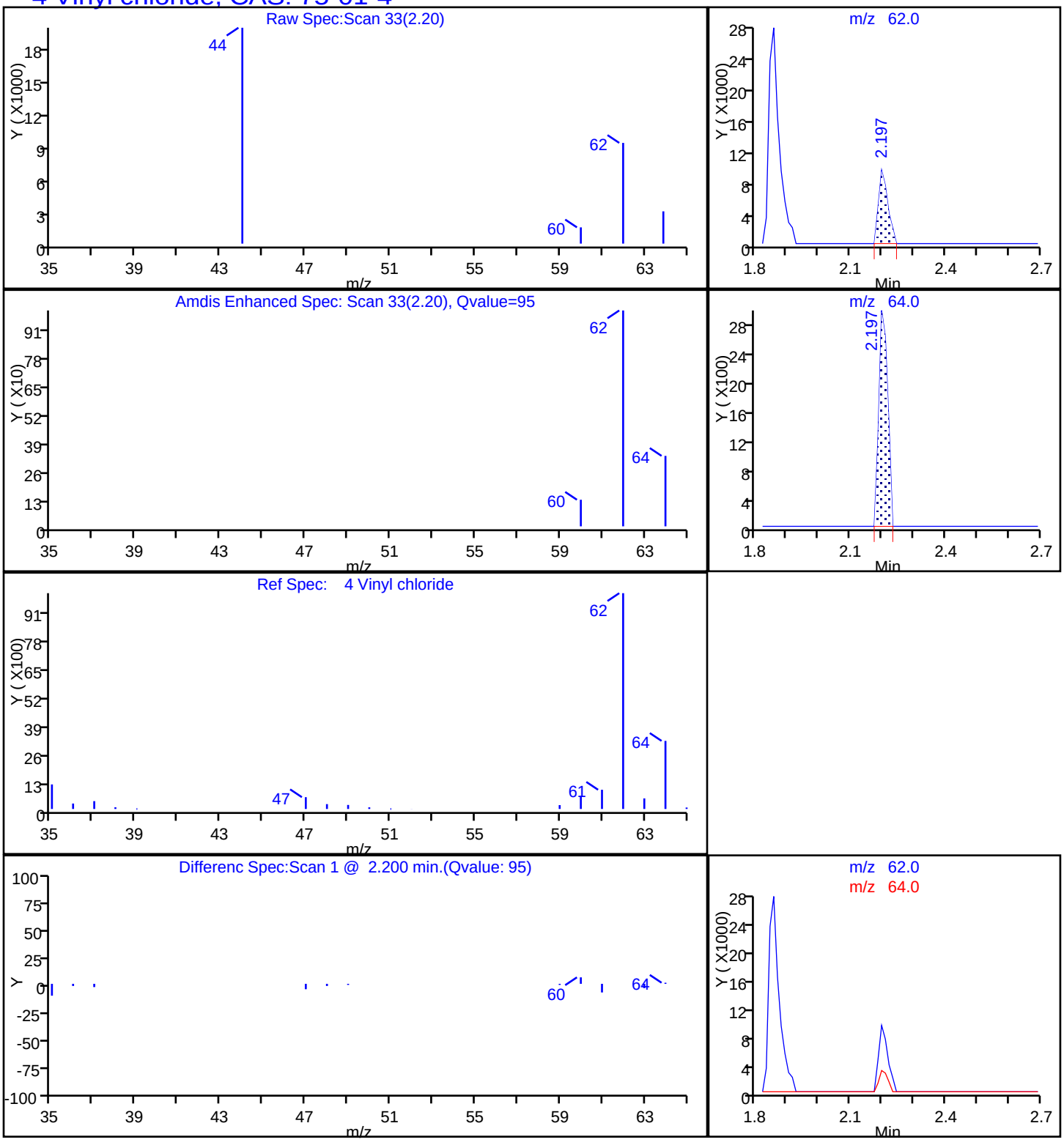
Report Date: 02-Aug-2017 15:47:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8175.D

Injection Date:	01-Aug-2017 21:07:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-5	Lab Sample ID:	160-99527-5		
Client ID:	6MW2205				
Operator ID:	JDH	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	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: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2305 | Lab Sample ID: 280-99527-6

Matrix: Water | Lab File ID: XSMP8176.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 21:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U Q	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	2.1	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2305 | Lab Sample ID: 280-99527-6

Matrix: Water | Lab File ID: XSMP8176.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 21:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	0.80	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.6	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		81-118
460-00-4	4-Bromofluorobenzene (Surr)	88		85-114
1868-53-7	Dibromofluoromethane (Surr)	110		80-119
2037-26-5	Toluene-d8 (Surr)	95		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8176.D
Lims ID: 280-99527-B-6
Client ID: 6MW2305
Sample Type: Client
Inject. Date: 01-Aug-2017 21:32:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-014
Misc. Info.: 280-99527-B-6
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:47:54 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:42:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.878				ND	
3 Chloromethane	50		2.091				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	94	15328	1.64	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.605				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.528				ND	
18 Acetone	43		4.647				ND	
19 trans-1,2-Dichloroethene	96		4.789				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	79	19332	2.09	
33 2,2-Dichloropropane	77		6.705				ND	
35 Chlorobromomethane	128		6.824				ND	
36 Chloroform	83		6.954				ND	
37 Carbon tetrachloride	117		7.108				ND	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	93	340889	54.8	
40 1,1,1-Trichloroethane	97		7.202				ND	
42 1,1-Dichloropropene	75		7.380				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.699				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	31	332553	56.7	
49 1,2-Dichloroethane	62		7.983				ND	
* 51 Fluorobenzene	96	8.267	8.267	0.000	99	1607292	50.0	
53 Trichloroethene	95	8.468	8.469	-0.001	90	7532	0.7971	
55 Dibromomethane	93		9.001				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.226				ND	
61 cis-1,3-Dichloropropene	75		10.031				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	94	1524809	47.3	
63 Toluene	92		10.315				ND	
65 Tetrachloroethene	164		10.776				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.811				ND	
67 trans-1,3-Dichloropropene	75		10.835				ND	
68 1,1,2-Trichloroethane	83		11.013				ND	
70 Chlorodibromomethane	129		11.202				ND	
71 1,3-Dichloropropane	76		11.308				ND	
72 Ethylene Dibromide	107		11.450				ND	
74 2-Hexanone	43		11.723				ND	
* 76 Chlorobenzene-d5	117	11.995	11.995	0.000	88	1007347	50.0	
77 Chlorobenzene	112		12.007				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.078				ND	
80 m-Xylene & p-Xylene	106		12.196				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.669				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	490007	44.1	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.308				ND	
89 1,1,2,2-Tetrachloroethane	83		13.379				ND	
90 2-Chlorotoluene	91		13.450				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.498				ND	
95 4-Chlorotoluene	91		13.604				ND	
96 tert-Butylbenzene	119		13.782				ND	
97 1,2,4-Trimethylbenzene	105		13.841				ND	
98 sec-Butylbenzene	105		13.935				ND	
99 4-Isopropyltoluene	119		14.066				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	97	414892	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.272				ND	
110 Naphthalene	128		16.113				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

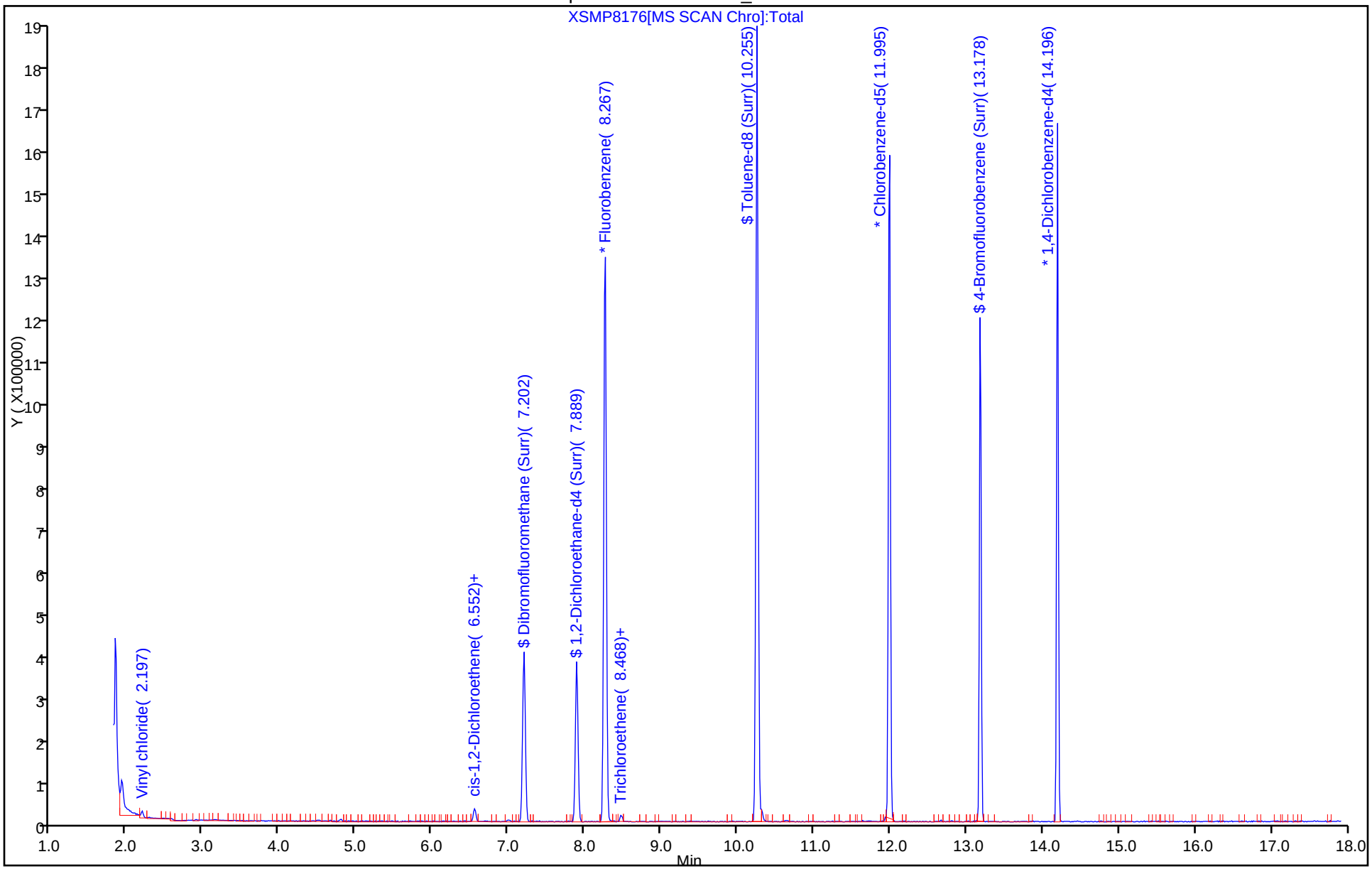
Reagents:

I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:47:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File:	\\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8176.D				
Injection Date:	01-Aug-2017 21:32:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-99527-B-6	Lab Sample ID:	160-99527-6	Worklist Smp#:	14
Client ID:	6MW2305				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8176.D
Lims ID: 280-99527-B-6
Client ID: 6MW2305
Sample Type: Client
Inject. Date: 01-Aug-2017 21:32:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-014
Misc. Info.: 280-99527-B-6
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:47:54 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:42:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	54.8	109.56
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	56.7	113.41
$ 62 Toluene-d8 (Surr)	50.0	47.3	94.66
$ 86 4-Bromofluorobenzene (Surr)	50.0	44.1	88.28

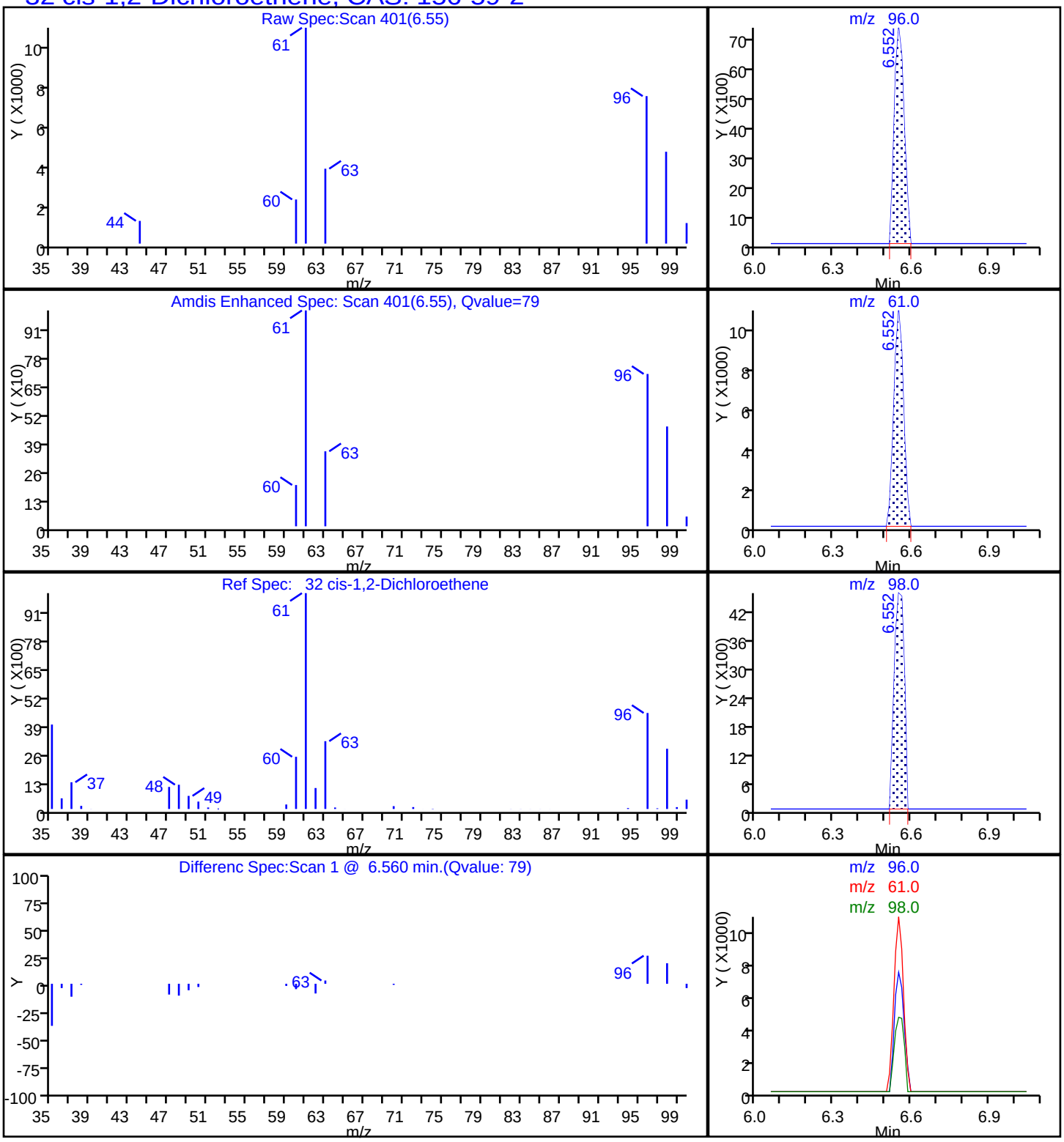
Report Date: 02-Aug-2017 15:47:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8176.D

Injection Date:	01-Aug-2017 21:32:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-6	Lab Sample ID:	160-99527-6		
Client ID:	6MW2305				
Operator ID:	JDH	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

32 cis-1,2-Dichloroethene, CAS: 156-59-2



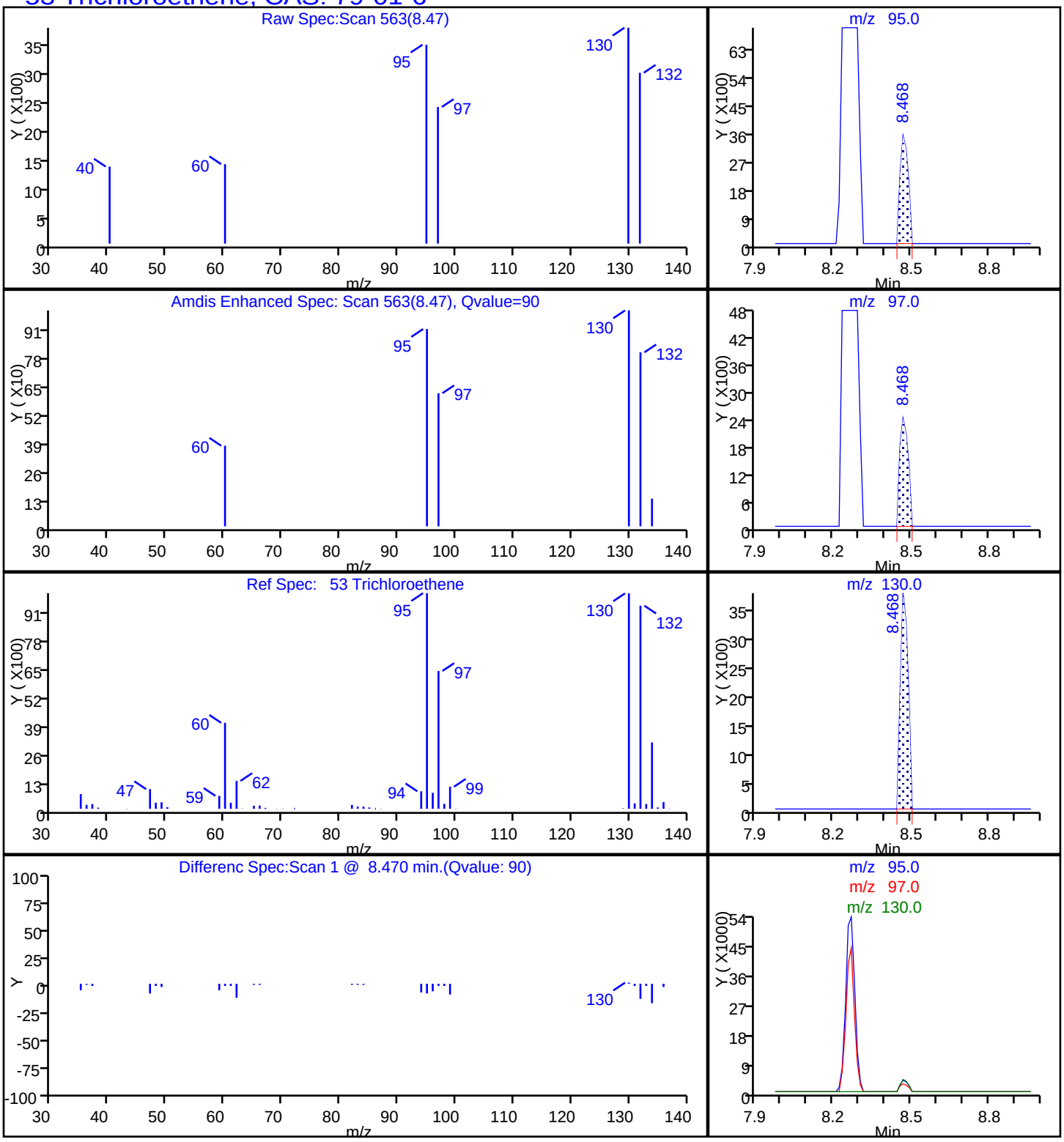
Report Date: 02-Aug-2017 15:47:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8176.D

Injection Date:	01-Aug-2017 21:32:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-6	Lab Sample ID:	160-99527-6		
Client ID:	6MW2305				
Operator ID:	JDH	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6



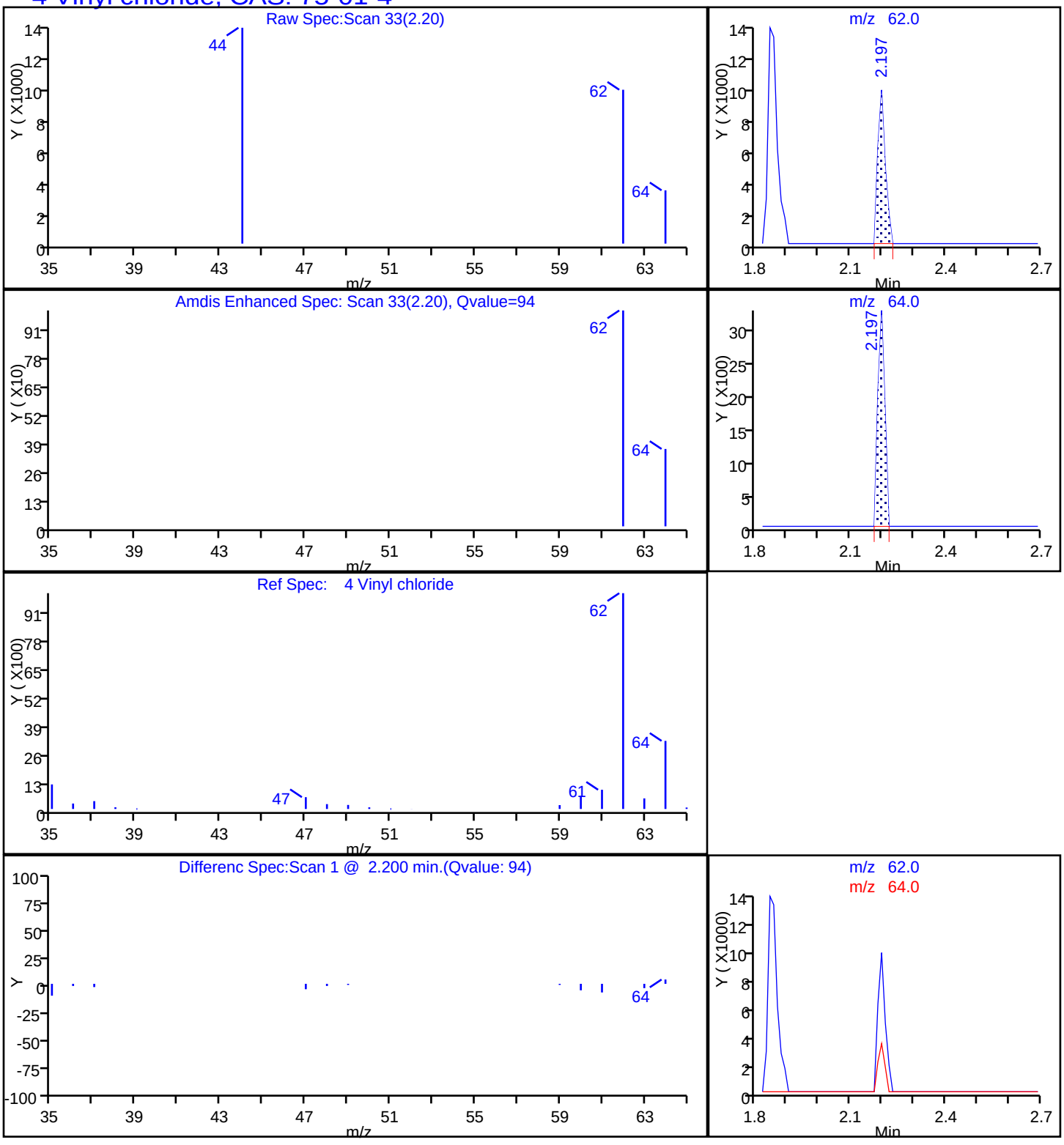
Report Date: 02-Aug-2017 15:47:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8176.D

Injection Date:	01-Aug-2017 21:32:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-6	Lab Sample ID:	160-99527-6		
Client ID:	6MW2305				
Operator ID:	JDH	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	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: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2405 | Lab Sample ID: 280-99527-7

Matrix: Water | Lab File ID: XSMP8177.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 21:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U Q	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	0.29	J	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	4.7	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2405 | Lab Sample ID: 280-99527-7

Matrix: Water | Lab File ID: XSMP8177.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 21:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	6.9		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.3	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		81-118
460-00-4	4-Bromofluorobenzene (Surr)	87		85-114
1868-53-7	Dibromofluoromethane (Surr)	108		80-119
2037-26-5	Toluene-d8 (Surr)	93		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8177.D
Lims ID: 280-99527-B-7
Client ID: 6MW2405
Sample Type: Client
Inject. Date: 01-Aug-2017 21:58:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-015
Misc. Info.: 280-99527-B-7
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:56:29 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:56:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.878				ND	
3 Chloromethane	50		2.091				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	94	12519	1.34	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.605				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.528				ND	
18 Acetone	43		4.647				ND	
19 trans-1,2-Dichloroethene	96		4.789				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	77	43153	4.67	
33 2,2-Dichloropropane	77		6.705				ND	
35 Chlorobromomethane	128		6.824				ND	
36 Chloroform	83	6.954	6.954	0.000	2	3965	0.2858	
37 Carbon tetrachloride	117		7.108				ND	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	93	335672	53.9	
40 1,1,1-Trichloroethane	97		7.202				ND	
42 1,1-Dichloropropene	75		7.380				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.699				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	31	324819	55.3	
49 1,2-Dichloroethane	62		7.983				ND	
* 51 Fluorobenzene	96	8.267	8.267	0.000	99	1609885	50.0	
53 Trichloroethene	95	8.469	8.469	0.000	97	65204	6.89	
55 Dibromomethane	93		9.001				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.226				ND	
61 cis-1,3-Dichloropropene	75		10.031				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1504700	46.4	
63 Toluene	92		10.315				ND	
65 Tetrachloroethene	164		10.776				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.811				ND	
67 trans-1,3-Dichloropropene	75		10.835				ND	
68 1,1,2-Trichloroethane	83		11.013				ND	
70 Chlorodibromomethane	129		11.202				ND	
71 1,3-Dichloropropane	76		11.308				ND	
72 Ethylene Dibromide	107		11.450				ND	
74 2-Hexanone	43		11.723				ND	
* 76 Chlorobenzene-d5	117	11.995	11.995	0.000	87	1014209	50.0	
77 Chlorobenzene	112		12.007				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.078				ND	
80 m-Xylene & p-Xylene	106		12.196				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.669				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	476859	43.5	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.308				ND	
89 1,1,2,2-Tetrachloroethane	83		13.379				ND	
90 2-Chlorotoluene	91		13.450				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.498				ND	
95 4-Chlorotoluene	91		13.604				ND	
96 tert-Butylbenzene	119		13.782				ND	
97 1,2,4-Trimethylbenzene	105		13.841				ND	
98 sec-Butylbenzene	105		13.935				ND	
99 4-Isopropyltoluene	119		14.066				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	97	409443	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.272				ND	
110 Naphthalene	128		16.113				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

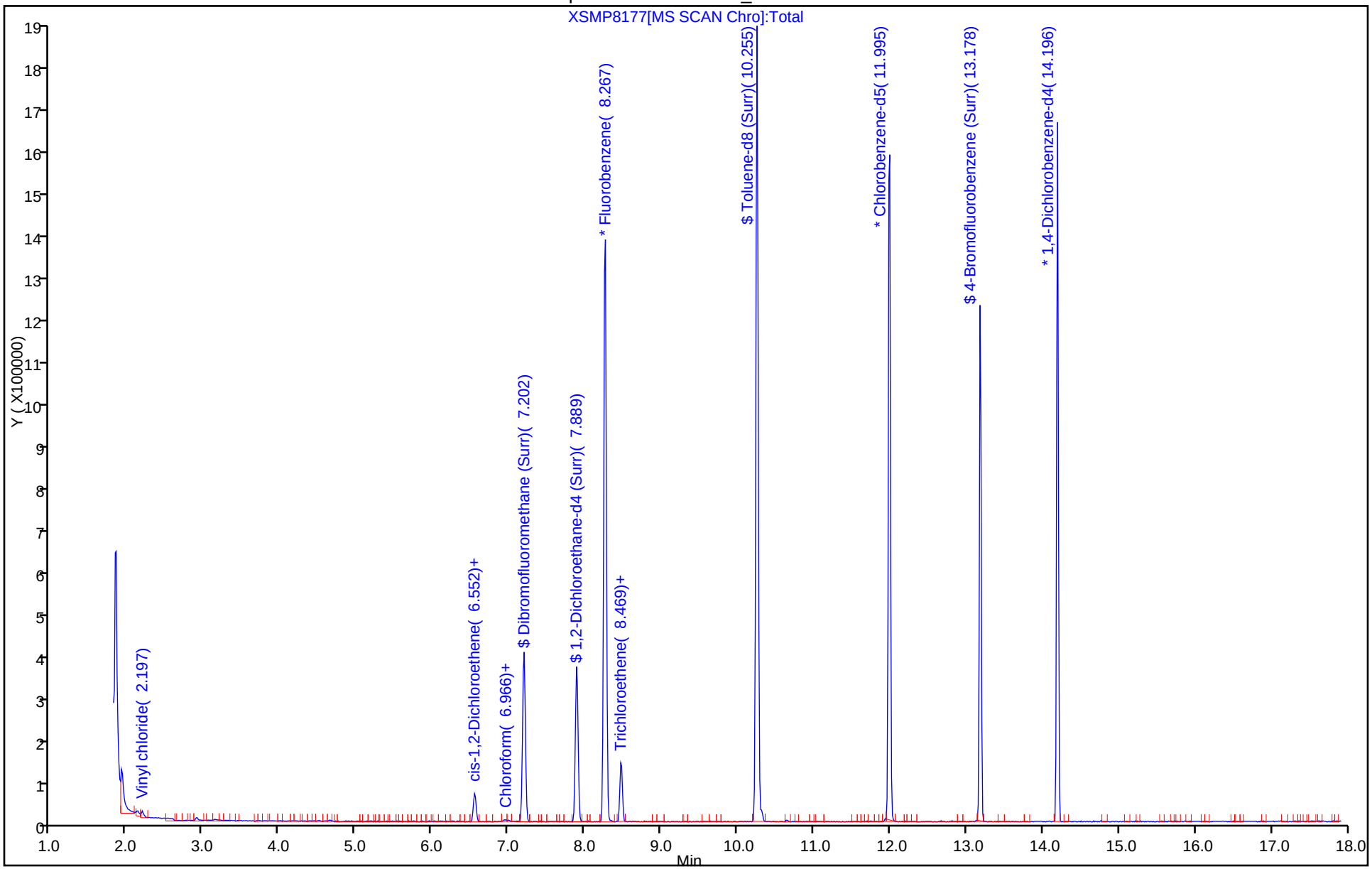
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:56:29 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8177.D

Injection Date:	01-Aug-2017 21:58:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-99527-B-7	Lab Sample ID:	160-99527-7	Worklist Smp#:	15
Client ID:	6MW2405				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8177.D
Lims ID: 280-99527-B-7
Client ID: 6MW2405
Sample Type: Client
Inject. Date: 01-Aug-2017 21:58:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-015
Misc. Info.: 280-99527-B-7
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:56:29 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:56:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	53.9	107.71
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	55.3	110.59
$ 62 Toluene-d8 (Surr)	50.0	46.4	92.78
$ 86 4-Bromofluorobenzene (Surr)	50.0	43.5	87.06

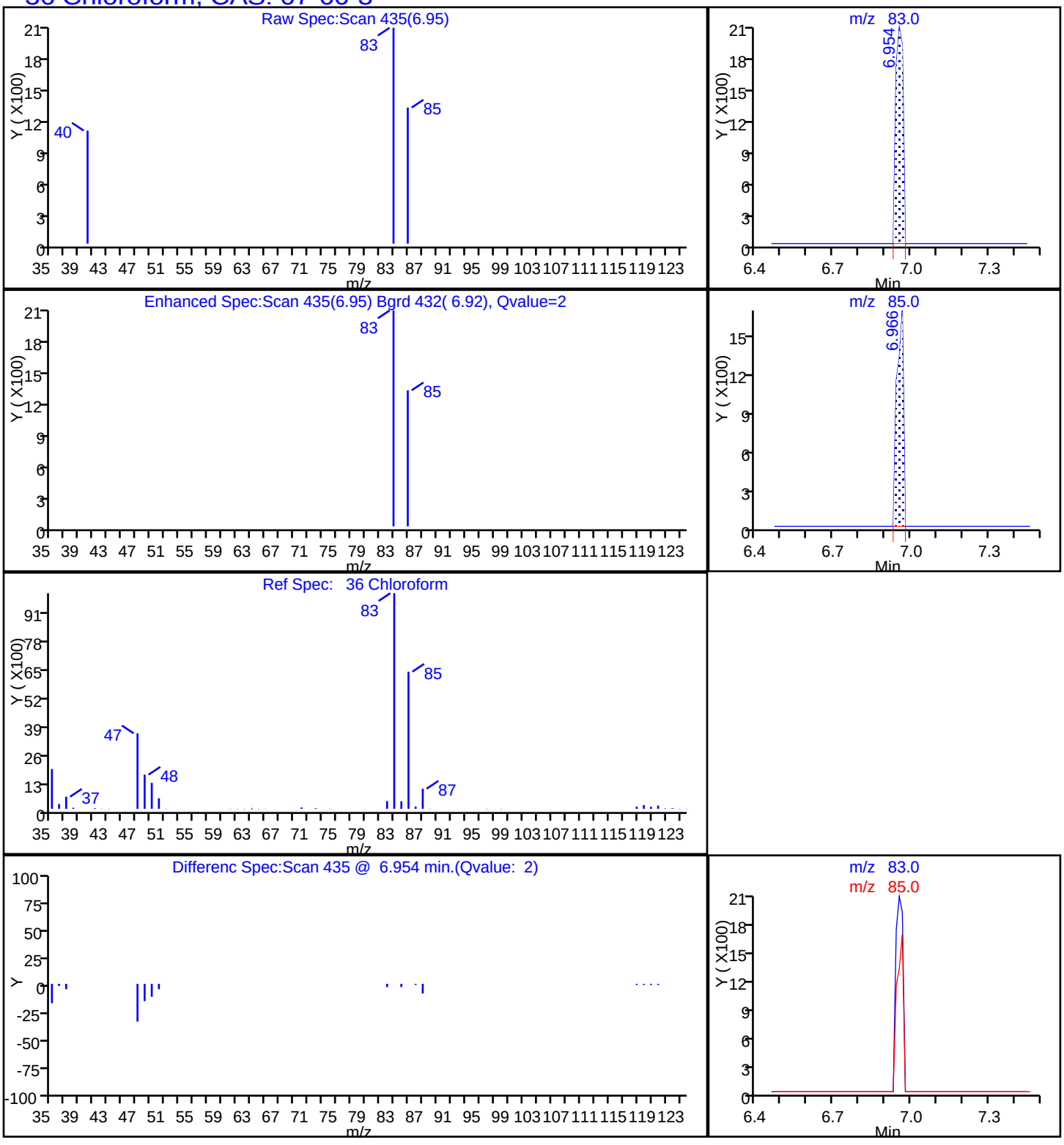
Report Date: 02-Aug-2017 15:56:29 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8177.D

Injection Date:	01-Aug-2017 21:58:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-7	Lab Sample ID:	160-99527-7		
Client ID:	6MW2405				
Operator ID:	JDH	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

36 Chloroform, CAS: 67-66-3



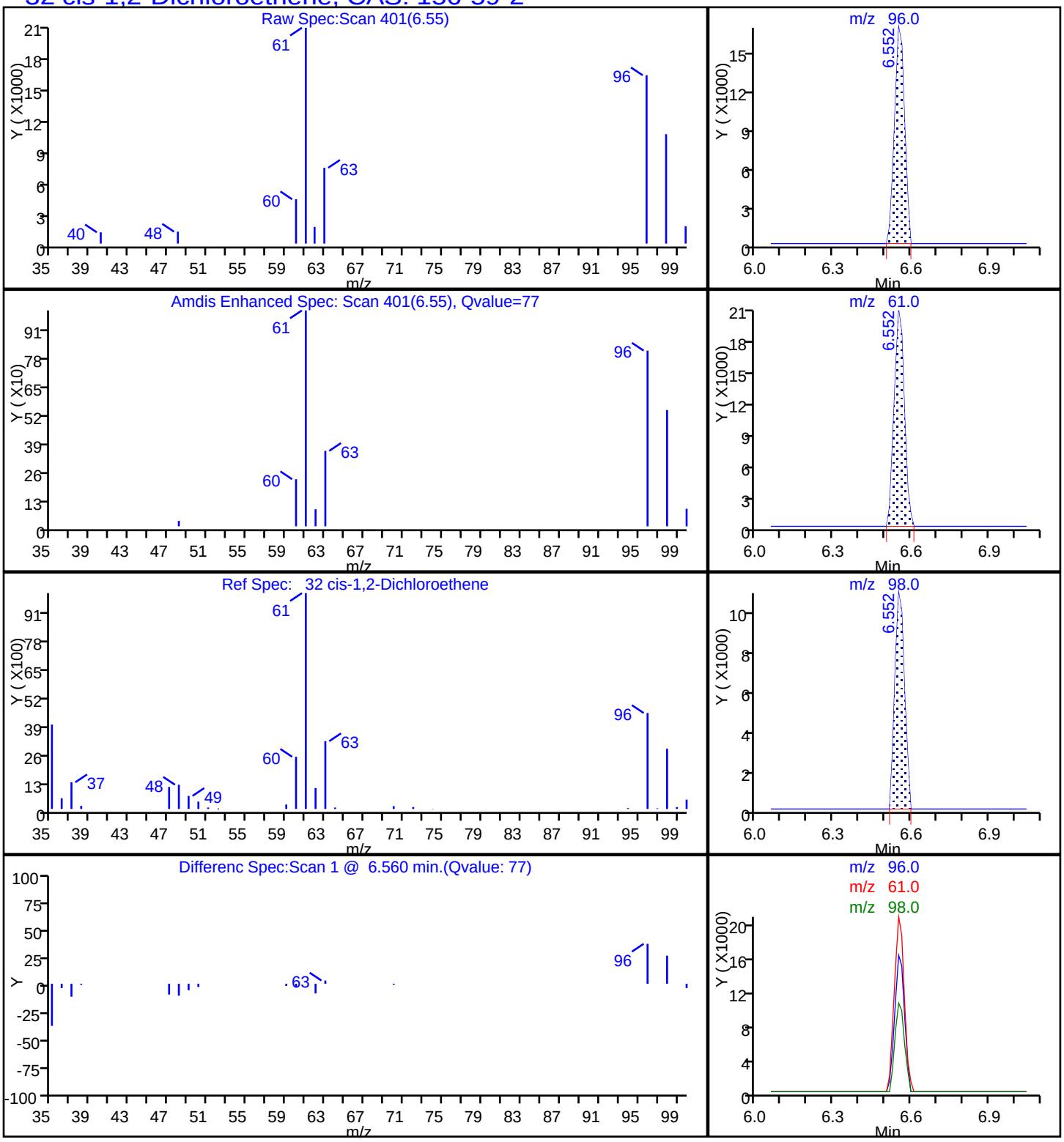
Report Date: 02-Aug-2017 15:56:29 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8177.D

Injection Date:	01-Aug-2017 21:58:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-7	Lab Sample ID:	160-99527-7		
Client ID:	6MW2405				
Operator ID:	JDH	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

32 cis-1,2-Dichloroethene, CAS: 156-59-2



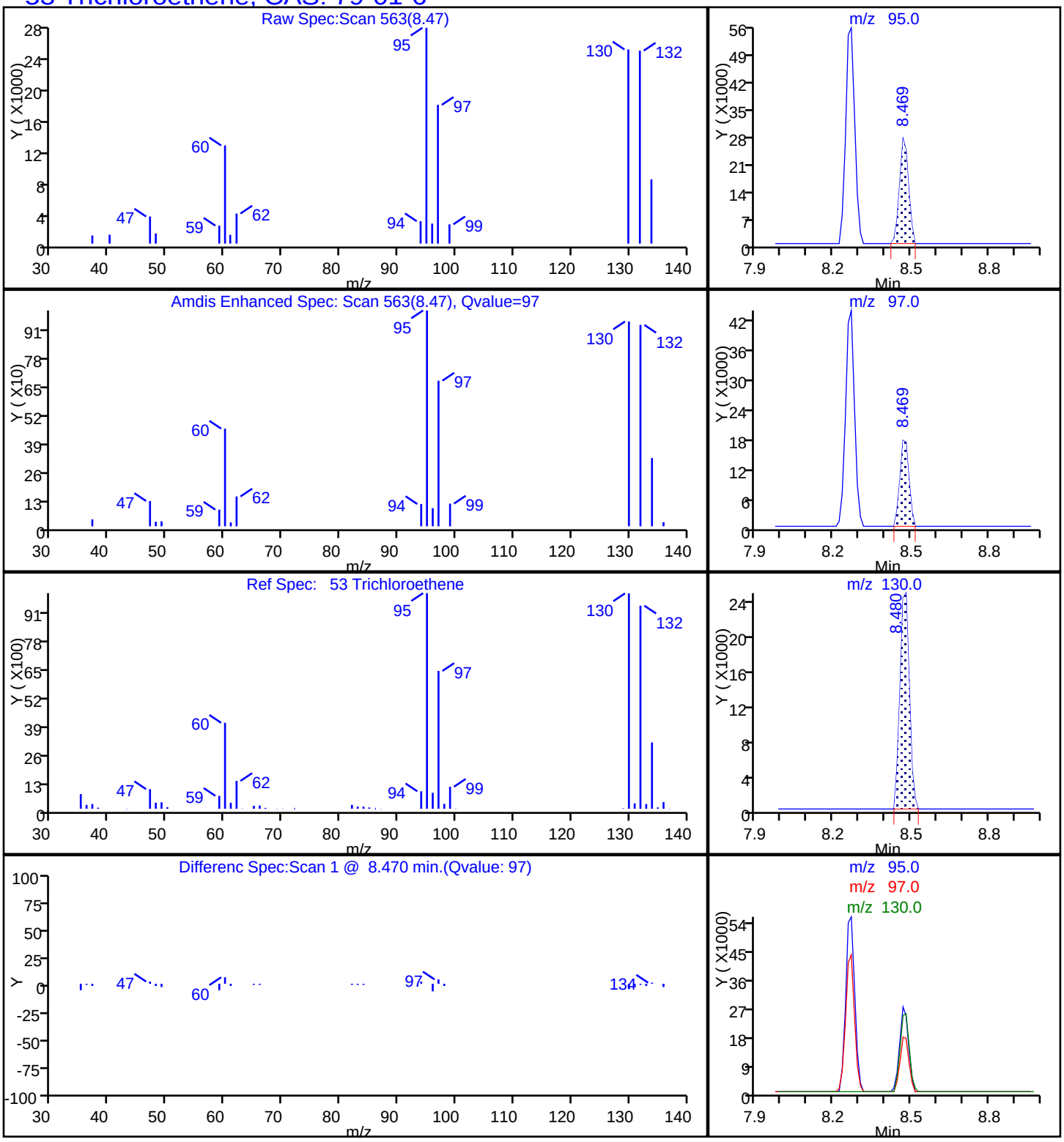
Report Date: 02-Aug-2017 15:56:29 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8177.D

Injection Date:	01-Aug-2017 21:58:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-7	Lab Sample ID:	160-99527-7		
Client ID:	6MW2405				
Operator ID:	JDH	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6



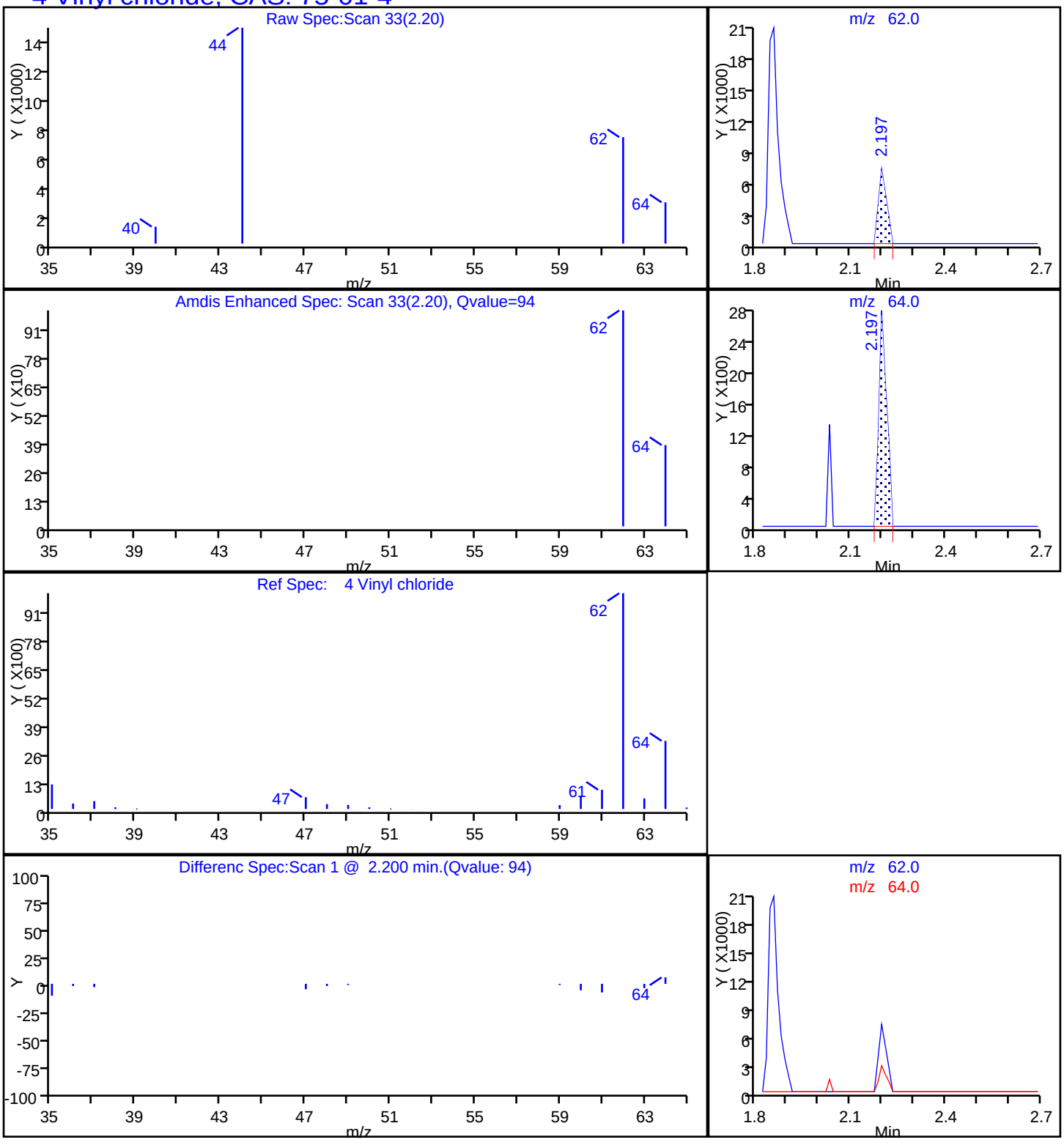
Report Date: 02-Aug-2017 15:56:29 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8177.D

Injection Date:	01-Aug-2017 21:58:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-7	Lab Sample ID:	160-99527-7		
Client ID:	6MW2405				
Operator ID:	JDH	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	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: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2505 RA | Lab Sample ID: 280-99527-8 RA

Matrix: Water | Lab File ID: XSMP8189.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 13:40

Sample wt/vol: 5(mL) | Date Analyzed: 08/02/2017 19:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320393 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U Q	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	5.8		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2505 RA | Lab Sample ID: 280-99527-8 RA

Matrix: Water | Lab File ID: XSMP8189.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 13:40

Sample wt/vol: 5(mL) | Date Analyzed: 08/02/2017 19:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320393 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U Q	5.0	2.0	0.22
75-01-4	Vinyl chloride	66		5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		81-118
460-00-4	4-Bromofluorobenzene (Surr)	88		85-114
1868-53-7	Dibromofluoromethane (Surr)	113		80-119
2037-26-5	Toluene-d8 (Surr)	95		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XSMP8189.D
Lims ID: 280-99527-C-8
Client ID: 6MW2505
Sample Type: Client
Inject. Date: 02-Aug-2017 19:10:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011097-008
Misc. Info.: 280-99527-C-8
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 07-Aug-2017 20:55:34 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: hannj Date: 07-Aug-2017 20:55:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.878				ND	
3 Chloromethane	50		2.091				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	98	586482	65.6	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.605				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.528				ND	
18 Acetone	43		4.647				ND	
19 trans-1,2-Dichloroethene	96		4.789				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	79	50927	5.76	
33 2,2-Dichloropropane	77		6.694				ND	
35 Chlorobromomethane	128		6.824				ND	
36 Chloroform	83		6.954				ND	
37 Carbon tetrachloride	117		7.096				ND	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.191	0.011	93	335919	56.4	
40 1,1,1-Trichloroethane	97		7.202				ND	
42 1,1-Dichloropropene	75		7.368				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.699				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	31	330585	58.8	
49 1,2-Dichloroethane	62		7.972				ND	
* 51 Fluorobenzene	96	8.267	8.256	0.011	99	1539558	50.0	
53 Trichloroethene	95		8.469				ND	
55 Dibromomethane	93		9.001				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.226				ND	
61 cis-1,3-Dichloropropene	75		10.019				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	94	1471700	47.3	
63 Toluene	92		10.314				ND	
65 Tetrachloroethene	164		10.764				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.800				ND	
67 trans-1,3-Dichloropropene	75		10.835				ND	
68 1,1,2-Trichloroethane	83		11.013				ND	
70 Chlorodibromomethane	129		11.202				ND	
71 1,3-Dichloropropane	76		11.308				ND	
72 Ethylene Dibromide	107		11.439				ND	
74 2-Hexanone	43		11.723				ND	
* 76 Chlorobenzene-d5	117	11.995	11.983	0.012	87	972734	50.0	
77 Chlorobenzene	112		12.007				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.078				ND	
80 m-Xylene & p-Xylene	106		12.196				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.669				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	85	479797	43.9	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.308				ND	
89 1,1,2,2-Tetrachloroethane	83		13.379				ND	
90 2-Chlorotoluene	91		13.450				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.498				ND	
95 4-Chlorotoluene	91		13.604				ND	
96 tert-Butylbenzene	119		13.782				ND	
97 1,2,4-Trimethylbenzene	105		13.841				ND	
98 sec-Butylbenzene	105		13.935				ND	
99 4-Isopropyltoluene	119		14.066				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	97	408817	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.272				ND	
110 Naphthalene	128		16.113				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

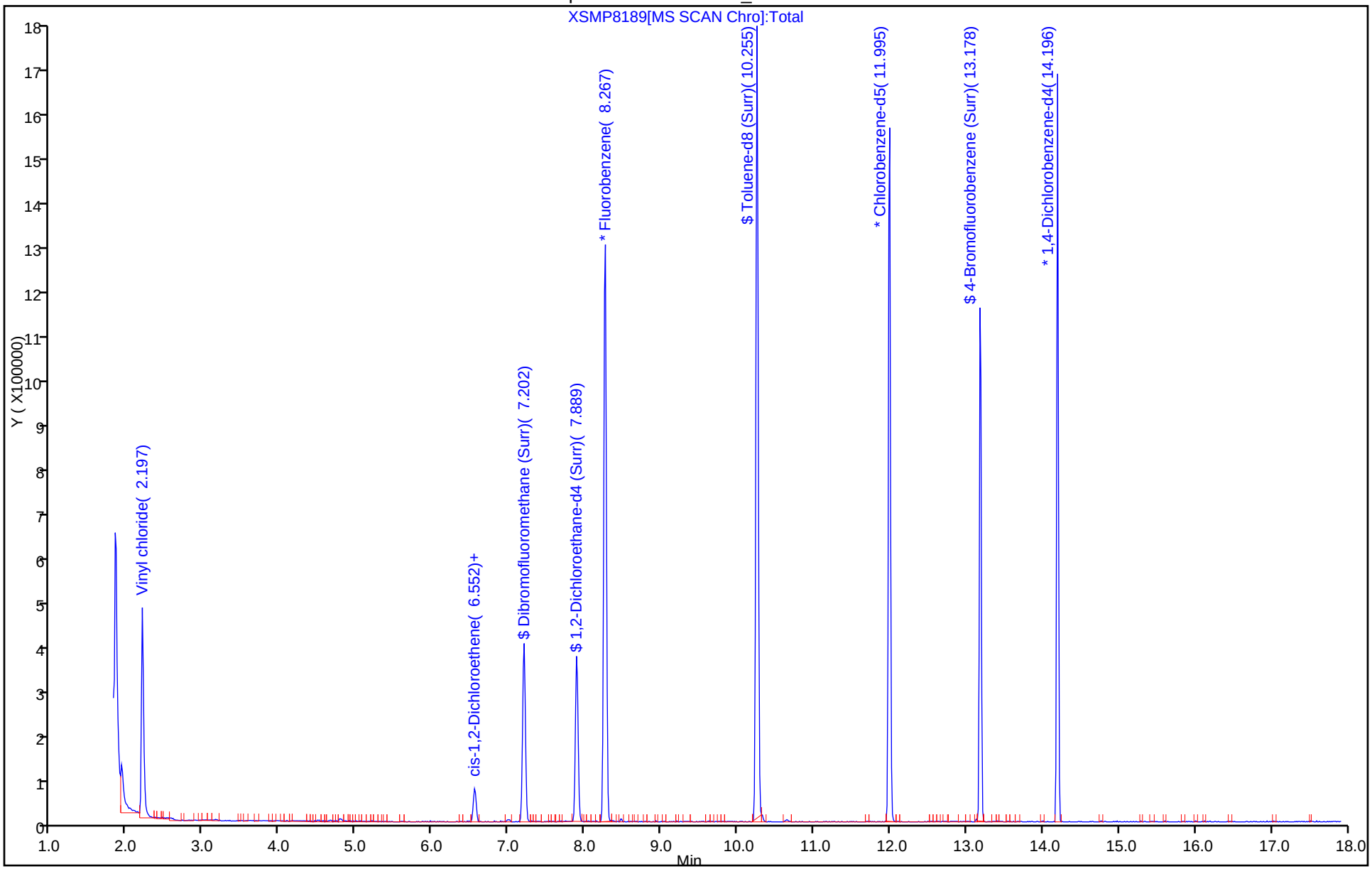
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 07-Aug-2017 20:55:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XSMP8189.D

Injection Date:	02-Aug-2017 19:10:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-99527-C-8	Lab Sample ID:	160-99527-8	Worklist Smp#:	8
Client ID:	6MW2505				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XSMP8189.D
Lims ID: 280-99527-C-8
Client ID: 6MW2505
Sample Type: Client
Inject. Date: 02-Aug-2017 19:10:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011097-008
Misc. Info.: 280-99527-C-8
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 07-Aug-2017 20:55:34 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: hannj Date: 07-Aug-2017 20:55:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	56.4	112.71
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	58.8	117.70
$ 62 Toluene-d8 (Surr)	50.0	47.3	94.61
$ 86 4-Bromofluorobenzene (Surr)	50.0	43.9	87.73

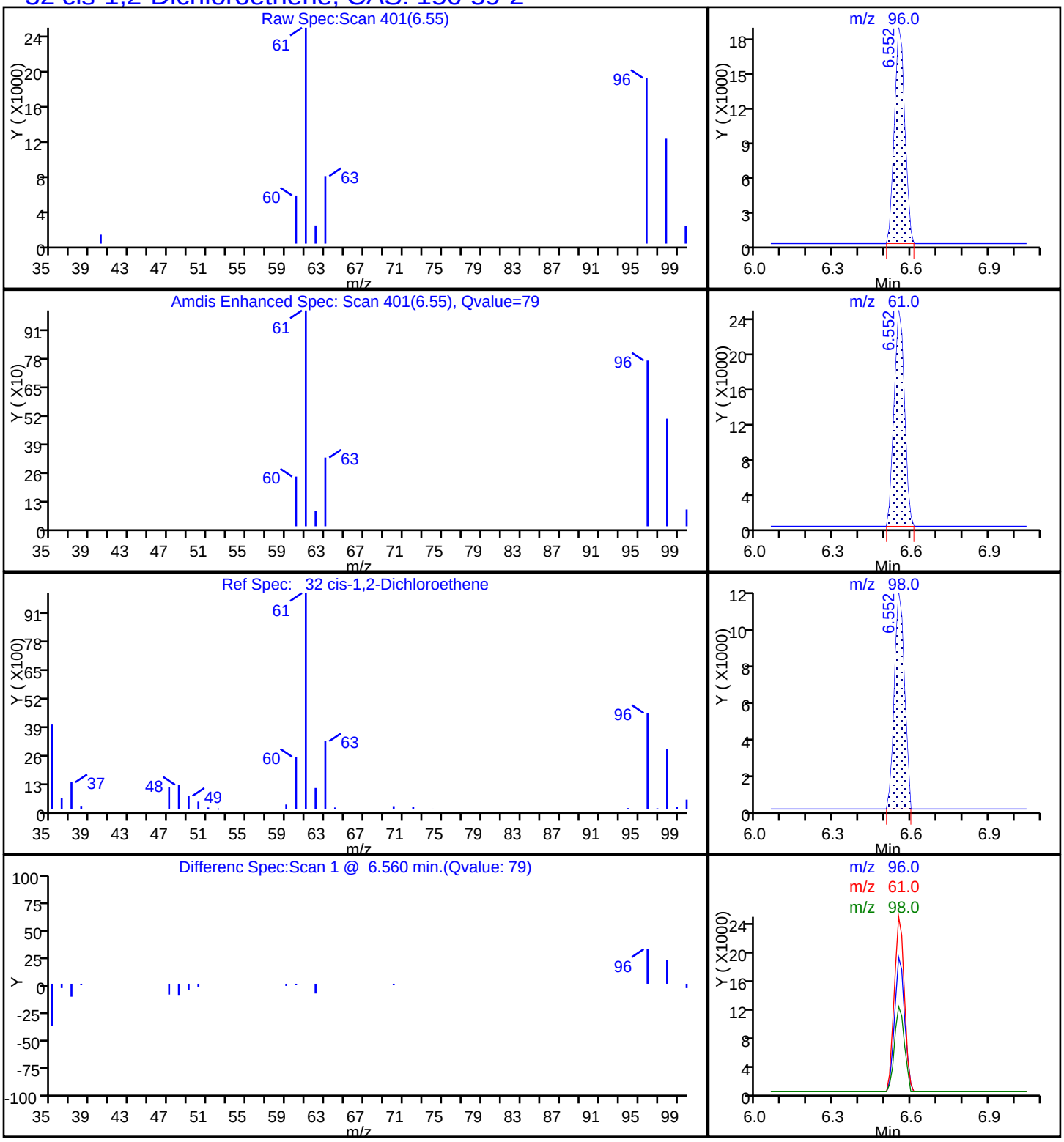
Report Date: 07-Aug-2017 20:55:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XSMP8189.D

Injection Date:	02-Aug-2017 19:10:30	Instrument ID:	VMSX		
Lims ID:	280-99527-C-8	Lab Sample ID:	160-99527-8		
Client ID:	6MW2505				
Operator ID:	JDH	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

32 cis-1,2-Dichloroethene, CAS: 156-59-2



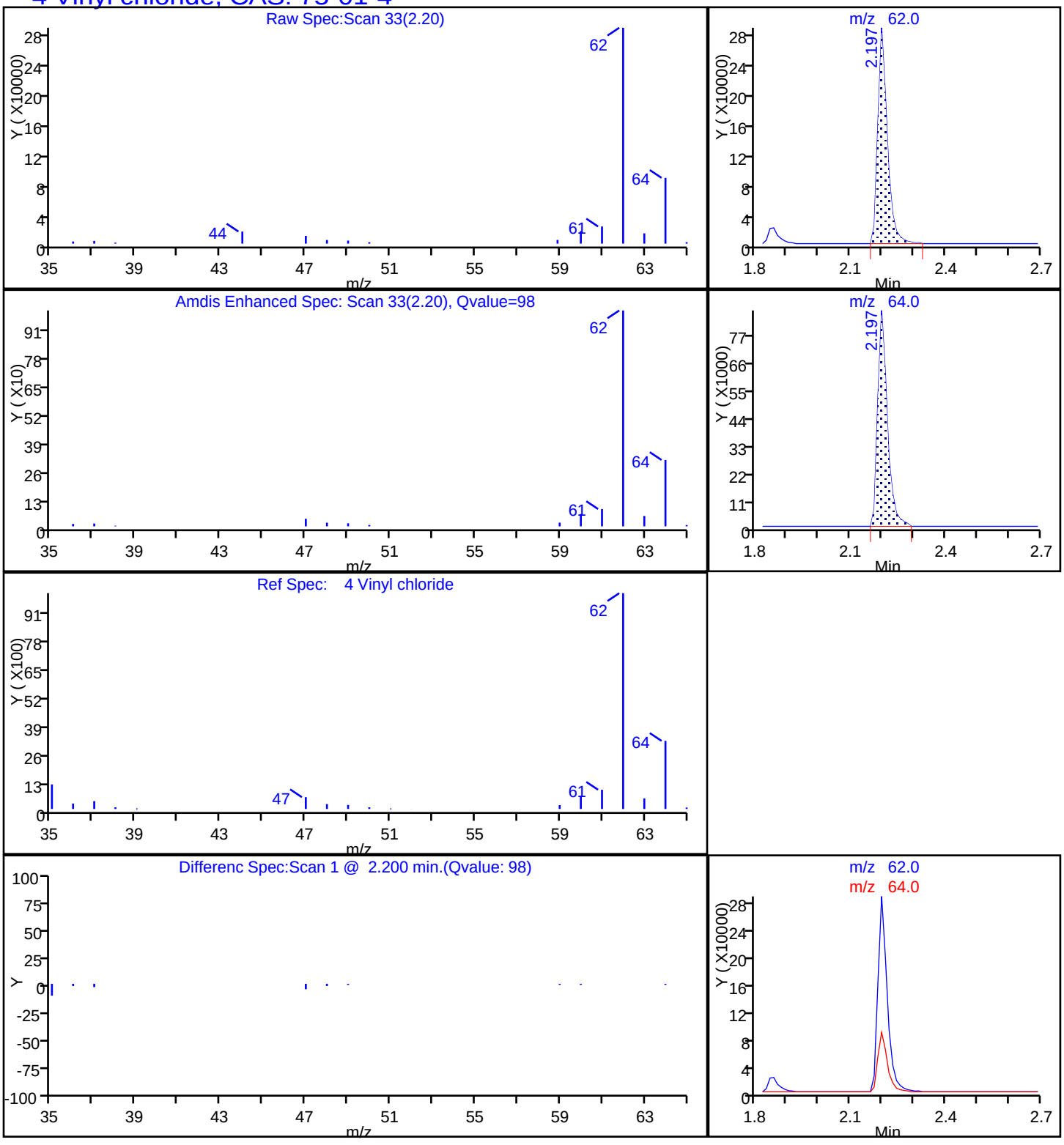
Report Date: 07-Aug-2017 20:55:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XSMP8189.D

Injection Date:	02-Aug-2017 19:10:30	Instrument ID:	VMSX		
Lims ID:	280-99527-C-8	Lab Sample ID:	160-99527-8		
Client ID:	6MW2505				
Operator ID:	JDH	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	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: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2605 | Lab Sample ID: 280-99527-9

Matrix: Water | Lab File ID: XSMP8179.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 22:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U Q	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	2.4	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2605 | Lab Sample ID: 280-99527-9

Matrix: Water | Lab File ID: XSMP8179.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 22:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	0.60	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.8	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		81-118
460-00-4	4-Bromofluorobenzene (Surr)	85		85-114
1868-53-7	Dibromofluoromethane (Surr)	104		80-119
2037-26-5	Toluene-d8 (Surr)	92		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8179.D
Lims ID: 280-99527-B-9
Client ID: 6MW2605
Sample Type: Client
Inject. Date: 01-Aug-2017 22:50:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-017
Misc. Info.: 280-99527-B-9
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:48:06 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:09:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.878				ND	
3 Chloromethane	50		2.091				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	93	16534	1.84	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.605				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.528				ND	
18 Acetone	43		4.647				ND	
19 trans-1,2-Dichloroethene	96		4.789				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96	6.564	6.552	0.012	79	21333	2.40	
33 2,2-Dichloropropane	77		6.705				ND	
35 Chlorobromomethane	128		6.824				ND	
36 Chloroform	83		6.954				ND	
37 Carbon tetrachloride	117		7.108				ND	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	92	311833	52.0	
40 1,1,1-Trichloroethane	97		7.202				ND	
42 1,1-Dichloropropene	75		7.380				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.699				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	31	311451	55.2	
49 1,2-Dichloroethane	62		7.983				ND	
* 51 Fluorobenzene	96	8.267	8.267	0.000	99	1547667	50.0	
53 Trichloroethene	95	8.469	8.469	0.000	89	5427	0.5965	
55 Dibromomethane	93		9.001				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.226				ND	
61 cis-1,3-Dichloropropene	75		10.031				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	94	1416344	45.8	
63 Toluene	92		10.315				ND	
65 Tetrachloroethene	164		10.776				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.811				ND	
67 trans-1,3-Dichloropropene	75		10.835				ND	
68 1,1,2-Trichloroethane	83		11.013				ND	
70 Chlorodibromomethane	129		11.202				ND	
71 1,3-Dichloropropane	76		11.308				ND	
72 Ethylene Dibromide	107		11.450				ND	
74 2-Hexanone	43		11.723				ND	
* 76 Chlorobenzene-d5	117	11.995	11.995	0.000	87	966772	50.0	
77 Chlorobenzene	112		12.007				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.078				ND	
80 m-Xylene & p-Xylene	106		12.196				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.669				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	448821	42.4	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.308				ND	
89 1,1,2,2-Tetrachloroethane	83		13.379				ND	
90 2-Chlorotoluene	91		13.450				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.498				ND	
95 4-Chlorotoluene	91		13.604				ND	
96 tert-Butylbenzene	119		13.782				ND	
97 1,2,4-Trimethylbenzene	105		13.841				ND	
98 sec-Butylbenzene	105		13.935				ND	
99 4-Isopropyltoluene	119		14.066				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	97	395959	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.272				ND	
110 Naphthalene	128		16.113				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

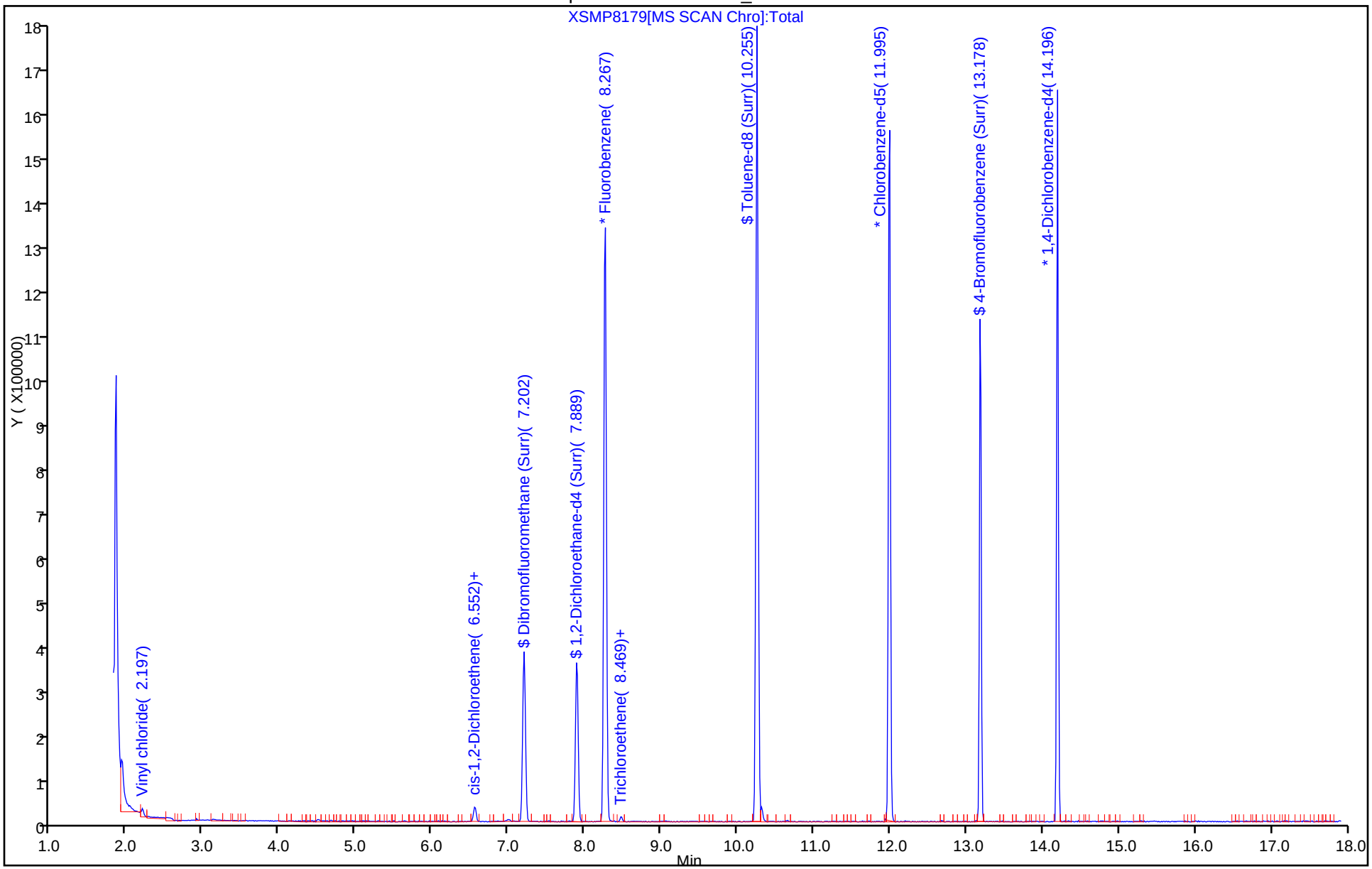
Reagents:

I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:48:08 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File:	\\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8179.D				
Injection Date:	01-Aug-2017 22:50:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-99527-B-9	Lab Sample ID:	160-99527-9	Worklist Smp#:	17
Client ID:	6MW2605				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8179.D
Lims ID: 280-99527-B-9
Client ID: 6MW2605
Sample Type: Client
Inject. Date: 01-Aug-2017 22:50:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-017
Misc. Info.: 280-99527-B-9
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:48:06 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:09:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	52.0	104.08
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	55.2	110.30
$ 62 Toluene-d8 (Surr)	50.0	45.8	91.62
$ 86 4-Bromofluorobenzene (Surr)	50.0	42.4	84.73

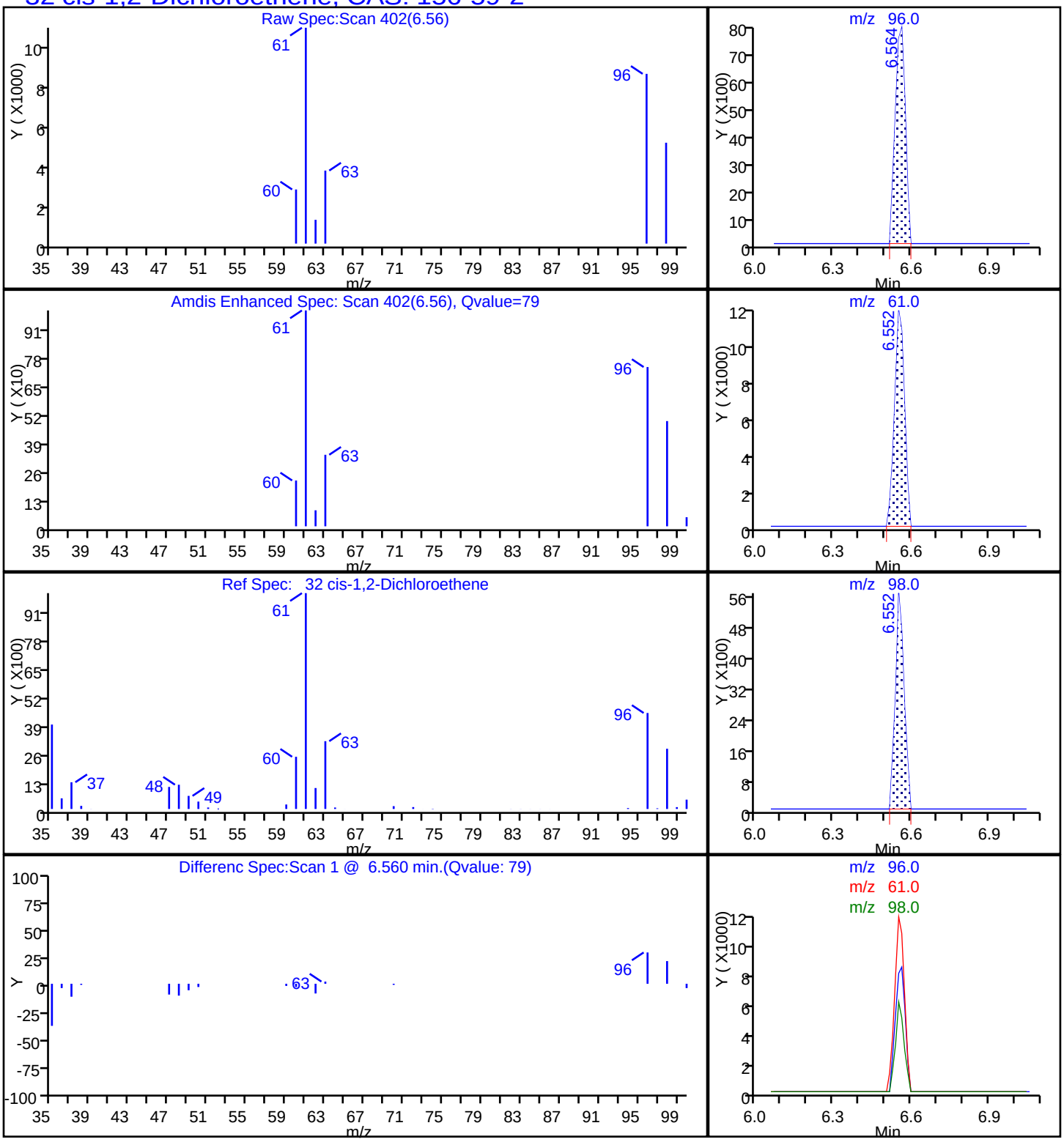
Report Date: 02-Aug-2017 15:48:08 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8179.D

Injection Date:	01-Aug-2017 22:50:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-9	Lab Sample ID:	160-99527-9		
Client ID:	6MW2605				
Operator ID:	JDH	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

32 cis-1,2-Dichloroethene, CAS: 156-59-2



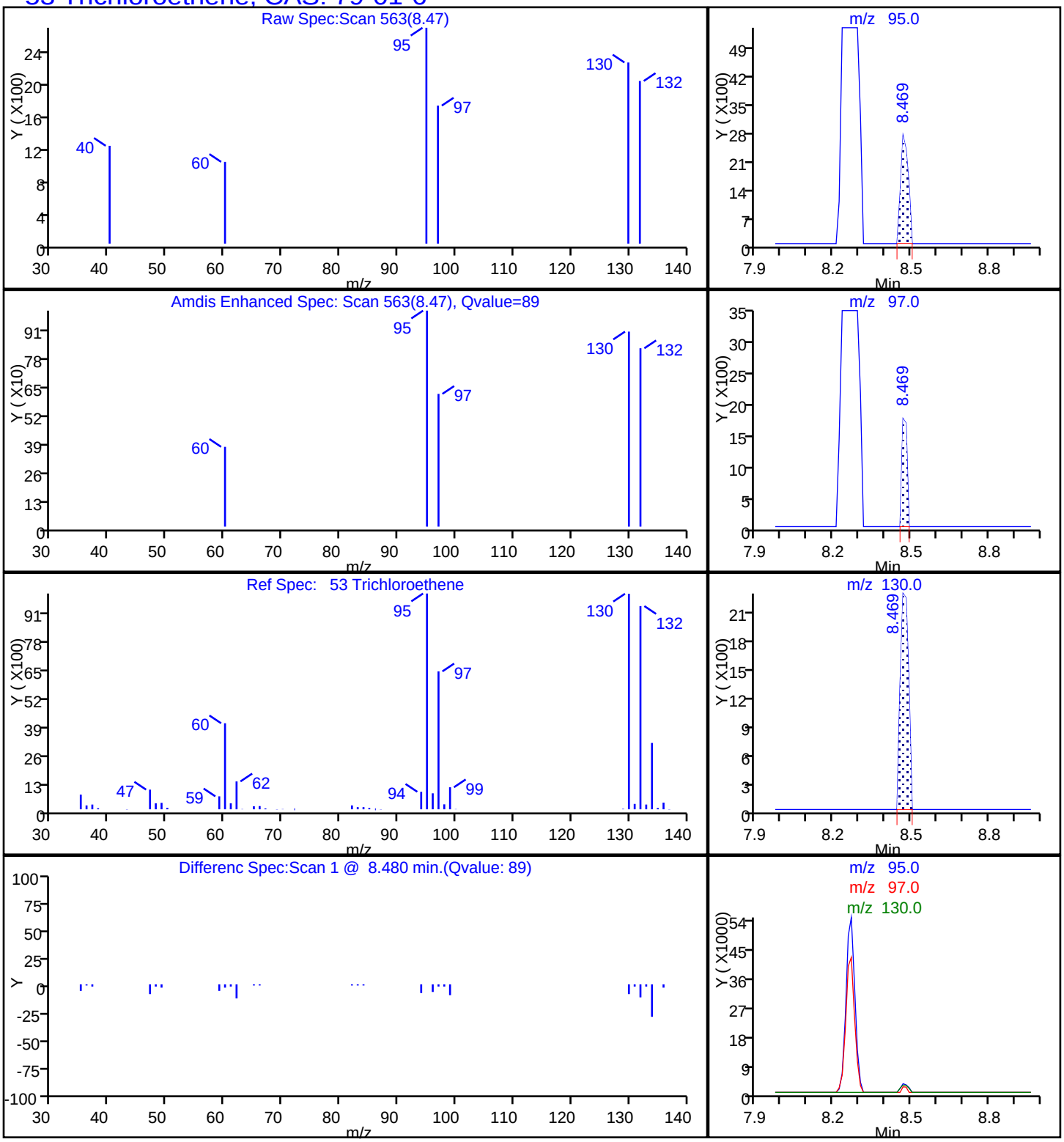
Report Date: 02-Aug-2017 15:48:08 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8179.D

Injection Date:	01-Aug-2017 22:50:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-9	Lab Sample ID:	160-99527-9		
Client ID:	6MW2605				
Operator ID:	JDH	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6



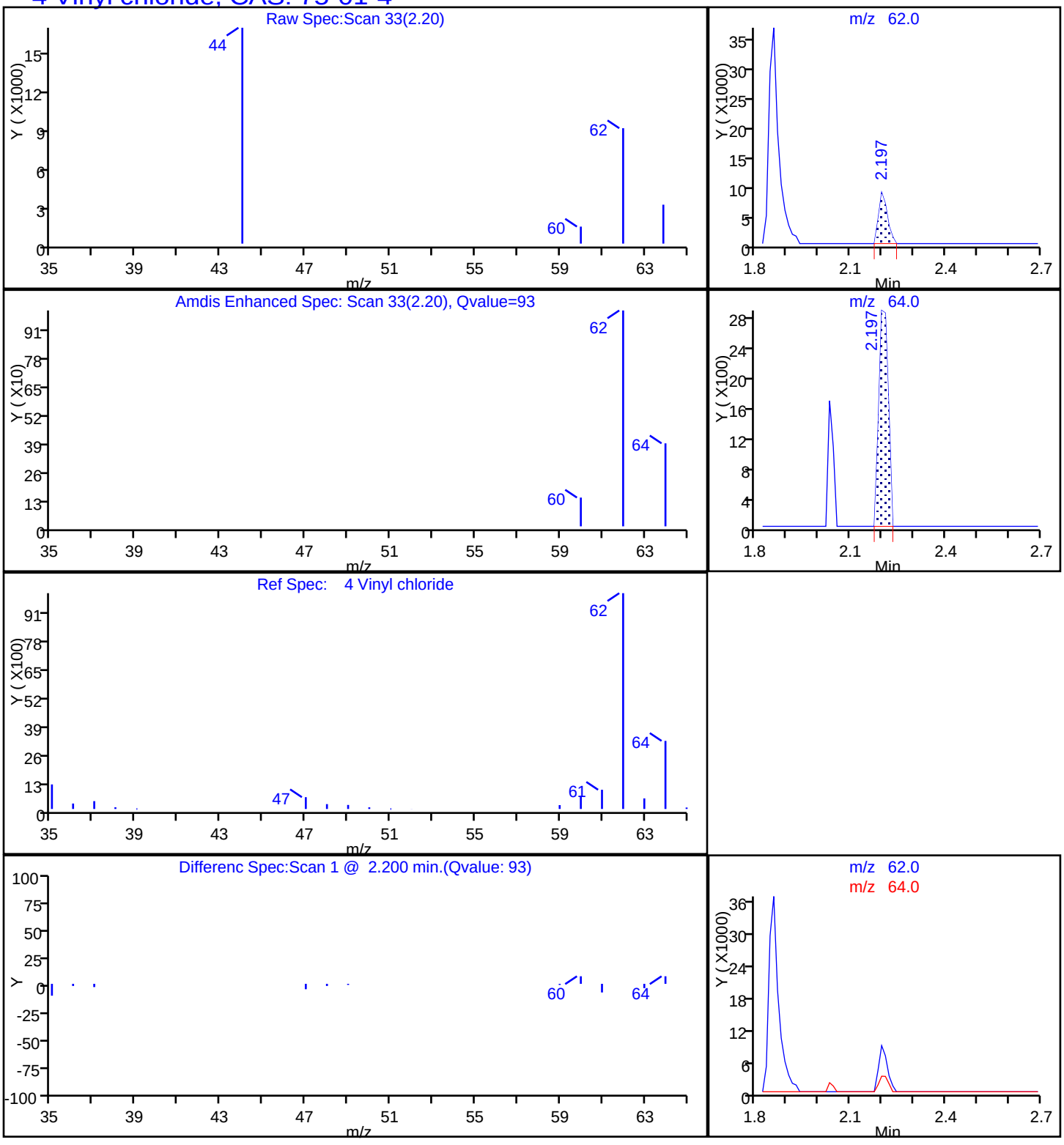
Report Date: 02-Aug-2017 15:48:08 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8179.D

Injection Date:	01-Aug-2017 22:50:30	Instrument ID:	VMSX		
Lims ID:	280-99527-B-9	Lab Sample ID:	160-99527-9		
Client ID:	6MW2605				
Operator ID:	JDH	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	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: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: TB06 | Lab Sample ID: 280-99527-10

Matrix: Water | Lab File ID: XSMP8169.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 18:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U Q	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	0.42	J	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.0	U	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: TB06 | Lab Sample ID: 280-99527-10

Matrix: Water | Lab File ID: XSMP8169.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 18:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.2	J	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		81-118
460-00-4	4-Bromofluorobenzene (Surr)	88		85-114
1868-53-7	Dibromofluoromethane (Surr)	106		80-119
2037-26-5	Toluene-d8 (Surr)	96		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8169.D
Lims ID: 280-99527-A-10
Client ID: TB06
Sample Type: Client
Inject. Date: 01-Aug-2017 18:16:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-007
Misc. Info.: 280-99527-B-10
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:06:33 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:06:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.878				ND	
3 Chloromethane	50		2.091				ND	
4 Vinyl chloride	62		2.197				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.647				ND	
19 trans-1,2-Dichloroethene	96		4.789				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96		6.552				ND	
33 2,2-Dichloropropane	77		6.694				ND	
35 Chlorobromomethane	128		6.824				ND	
36 Chloroform	83	6.954	6.954	0.000	84	6498	0.4227	
37 Carbon tetrachloride	117		7.096				ND	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.191	0.011	93	367463	53.2	
40 1,1,1-Trichloroethane	97		7.202				ND	
42 1,1-Dichloropropene	75		7.368				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.699				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	31	361366	55.5	
49 1,2-Dichloroethane	62		7.972				ND	
* 51 Fluorobenzene	96	8.267	8.256	0.011	99	1783797	50.0	
53 Trichloroethene	95		8.469				ND	
55 Dibromomethane	93		9.001				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.226				ND	
61 cis-1,3-Dichloropropene	75		10.019				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	94	1662560	48.0	
63 Toluene	92	10.314	10.315	-0.001	98	30275	1.22	
65 Tetrachloroethene	164		10.764				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.800				ND	
67 trans-1,3-Dichloropropene	75		10.835				ND	
68 1,1,2-Trichloroethane	83		11.013				ND	
70 Chlorodibromomethane	129		11.202				ND	
71 1,3-Dichloropropane	76		11.309				ND	
72 Ethylene Dibromide	107		11.439				ND	
74 2-Hexanone	43		11.723				ND	
* 76 Chlorobenzene-d5	117	11.995	11.983	0.012	87	1084132	50.0	
77 Chlorobenzene	112		12.007				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.078				ND	
80 m-Xylene & p-Xylene	106		12.196				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.669				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	82	532081	44.2	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.308				ND	
89 1,1,2,2-Tetrachloroethane	83		13.379				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.498				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.782				ND	
97 1,2,4-Trimethylbenzene	105		13.841				ND	
98 sec-Butylbenzene	105		13.935				ND	
99 4-Isopropyltoluene	119		14.066				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	97	449938	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.273				ND	
110 Naphthalene	128		16.113				ND	
111 1,2,3-Trichlorobenzene	180		16.267				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

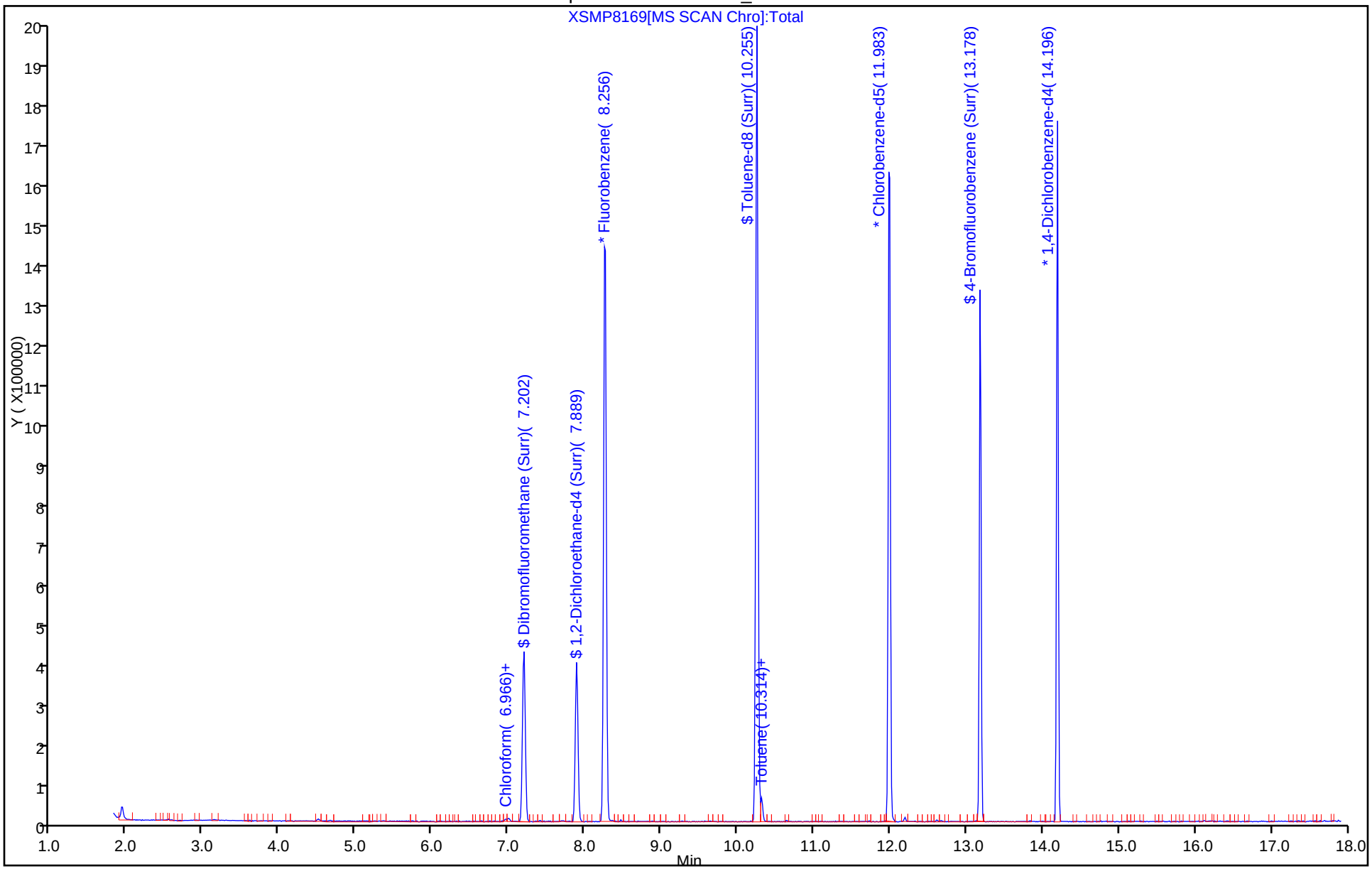
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:06:34 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8169.D

Injection Date:	01-Aug-2017 18:16:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-99527-A-10	Lab Sample ID:	160-99527-10	Worklist Smp#:	7
Client ID:	TB06				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8169.D
Lims ID: 280-99527-A-10
Client ID: TB06
Sample Type: Client
Inject. Date: 01-Aug-2017 18:16:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-007
Misc. Info.: 280-99527-B-10
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:06:33 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:06:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	53.2	106.42
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	55.5	111.04
$ 62 Toluene-d8 (Surr)	50.0	48.0	95.90
$ 86 4-Bromofluorobenzene (Surr)	50.0	44.2	88.39

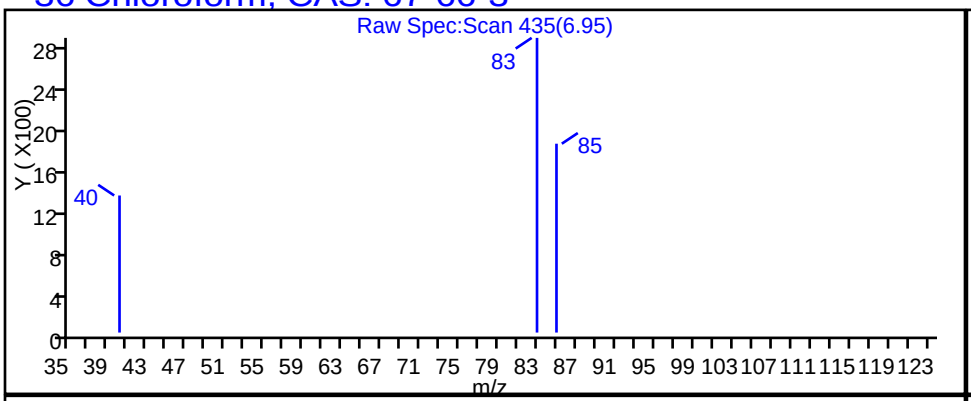
Report Date: 02-Aug-2017 15:06:34 Chrom Revision: 2.2 20-Jun-2017 07:42:38

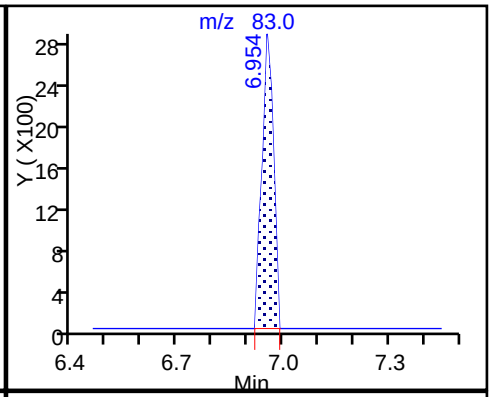
TestAmerica St. Louis

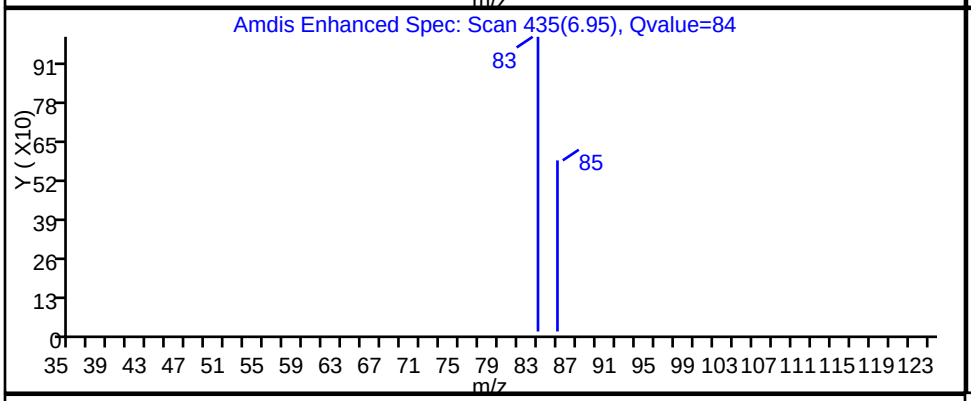
Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8169.D

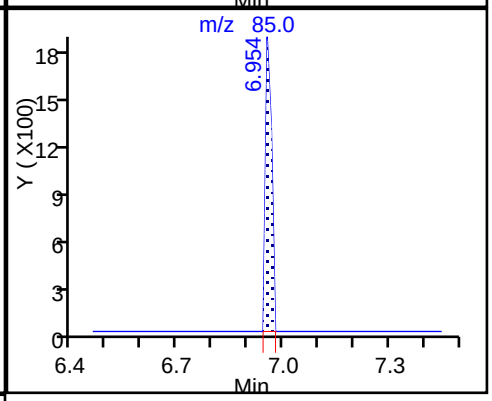
Injection Date:	01-Aug-2017 18:16:30	Instrument ID:	VMSX		
Lims ID:	280-99527-A-10	Lab Sample ID:	160-99527-10		
Client ID:	TB06				
Operator ID:	JDH	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

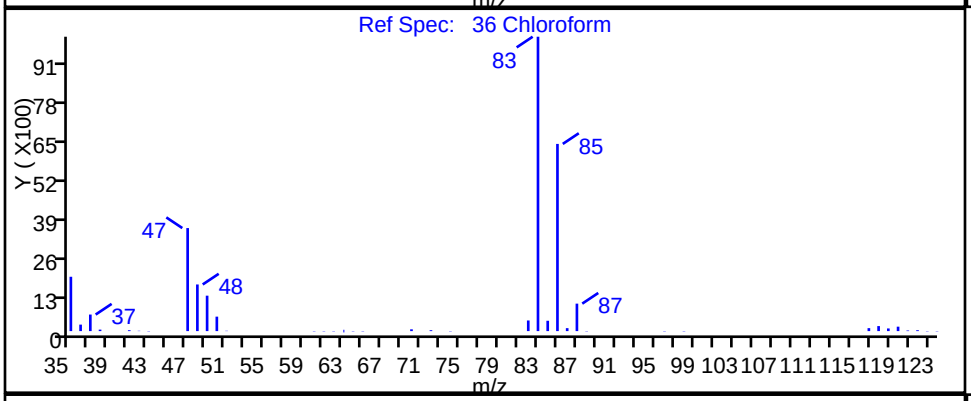
36 Chloroform, CAS: 67-66-3

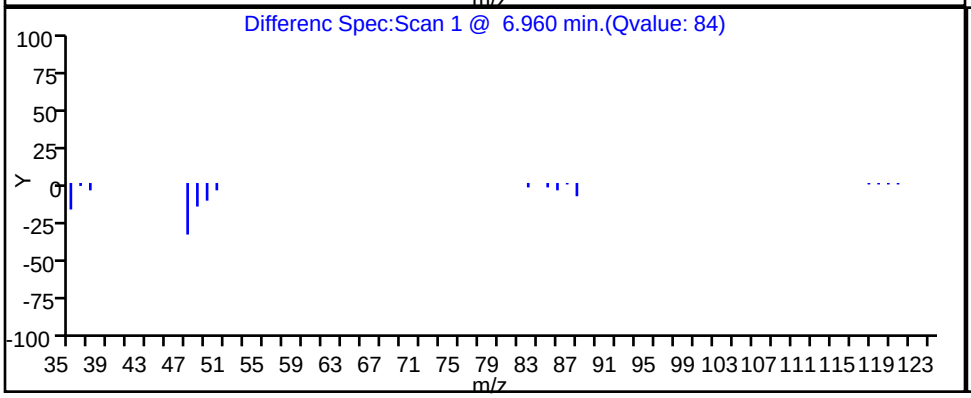


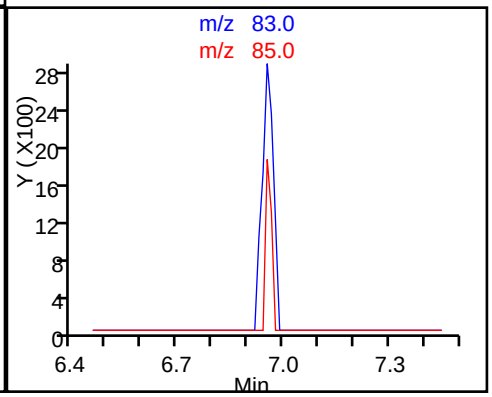












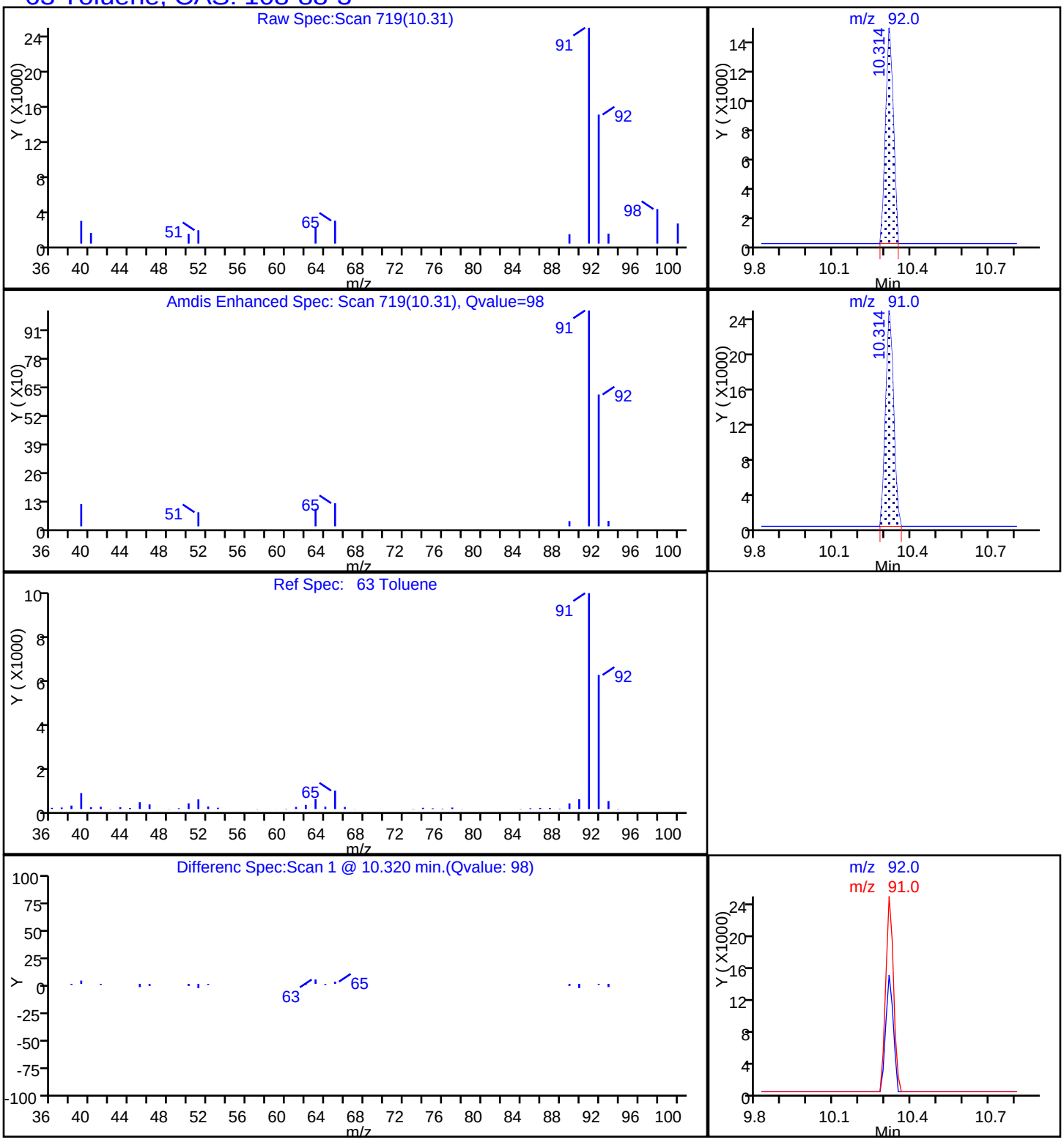
Report Date: 02-Aug-2017 15:06:34 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8169.D

Injection Date:	01-Aug-2017 18:16:30	Instrument ID:	VMSX		
Lims ID:	280-99527-A-10	Lab Sample ID:	160-99527-10		
Client ID:	TB06				
Operator ID:	JDH	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

63 Toluene, CAS: 108-88-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: FB02 | Lab Sample ID: 280-99527-11

Matrix: Water | Lab File ID: XSMP8170.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 14:50

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 18:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U Q	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	0.29	J	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.0	U	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: FB02 | Lab Sample ID: 280-99527-11

Matrix: Water | Lab File ID: XSMP8170.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 14:50

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 18:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.3	J	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		81-118
460-00-4	4-Bromofluorobenzene (Surr)	90		85-114
1868-53-7	Dibromofluoromethane (Surr)	104		80-119
2037-26-5	Toluene-d8 (Surr)	96		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8170.D
Lims ID: 280-99527-A-11
Client ID: FB02
Sample Type: Client
Inject. Date: 01-Aug-2017 18:55:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-008
Misc. Info.: 280-99527-B-11
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:41:09 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:41:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.878				ND	
3 Chloromethane	50		2.091				ND	
4 Vinyl chloride	62		2.197				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.605				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.528				ND	
18 Acetone	43		4.647				ND	
19 trans-1,2-Dichloroethene	96		4.789				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96		6.552				ND	
33 2,2-Dichloropropane	77		6.705				ND	
35 Chlorobromomethane	128		6.824				ND	
36 Chloroform	83	6.942	6.954	-0.012	49	4360	0.2877	
37 Carbon tetrachloride	117		7.108				ND	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.202	-0.011	93	353599	51.9	
40 1,1,1-Trichloroethane	97		7.202				ND	
42 1,1-Dichloropropene	75		7.380				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.699				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	31	352381	54.9	
49 1,2-Dichloroethane	62		7.983				ND	
* 51 Fluorobenzene	96	8.256	8.267	-0.011	99	1758409	50.0	
53 Trichloroethene	95		8.469				ND	
55 Dibromomethane	93		9.001				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.226				ND	
61 cis-1,3-Dichloropropene	75		10.031				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1609932	48.2	
63 Toluene	92	10.315	10.315	0.001	98	31506	1.32	
65 Tetrachloroethene	164		10.776				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.811				ND	
67 trans-1,3-Dichloropropene	75		10.835				ND	
68 1,1,2-Trichloroethane	83		11.013				ND	
70 Chlorodibromomethane	129		11.202				ND	
71 1,3-Dichloropropane	76		11.308				ND	
72 Ethylene Dibromide	107		11.450				ND	
74 2-Hexanone	43		11.723				ND	
* 76 Chlorobenzene-d5	117	11.995	11.995	0.000	88	1045080	50.0	
77 Chlorobenzene	112		12.007				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.078				ND	
80 m-Xylene & p-Xylene	106		12.196				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.669				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	82	505630	44.8	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.308				ND	
89 1,1,2,2-Tetrachloroethane	83		13.379				ND	
90 2-Chlorotoluene	91		13.450				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.498				ND	
95 4-Chlorotoluene	91		13.604				ND	
96 tert-Butylbenzene	119		13.782				ND	
97 1,2,4-Trimethylbenzene	105		13.841				ND	
98 sec-Butylbenzene	105		13.935				ND	
99 4-Isopropyltoluene	119		14.066				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	98	421943	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.272				ND	
110 Naphthalene	128		16.113				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

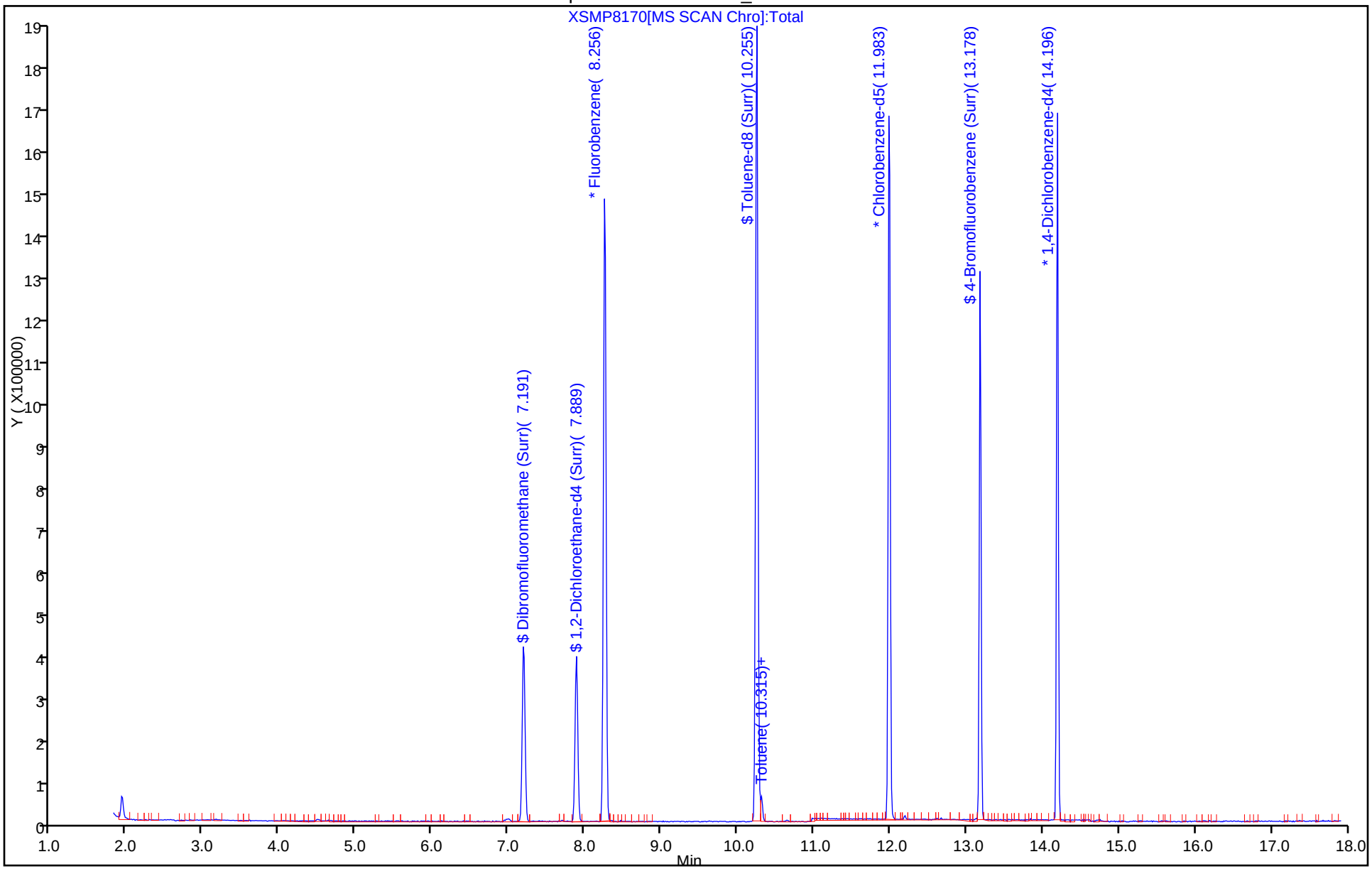
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:41:09 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8170.D

Injection Date:	01-Aug-2017 18:55:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-99527-A-11	Lab Sample ID:	160-99527-11	Worklist Smp#:	8
Client ID:	FB02				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8170.D
Lims ID: 280-99527-A-11
Client ID: FB02
Sample Type: Client
Inject. Date: 01-Aug-2017 18:55:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-008
Misc. Info.: 280-99527-B-11
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:41:09 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:41:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	51.9	103.88
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	54.9	109.84
$ 62 Toluene-d8 (Surr)	50.0	48.2	96.34
$ 86 4-Bromofluorobenzene (Surr)	50.0	44.8	89.57

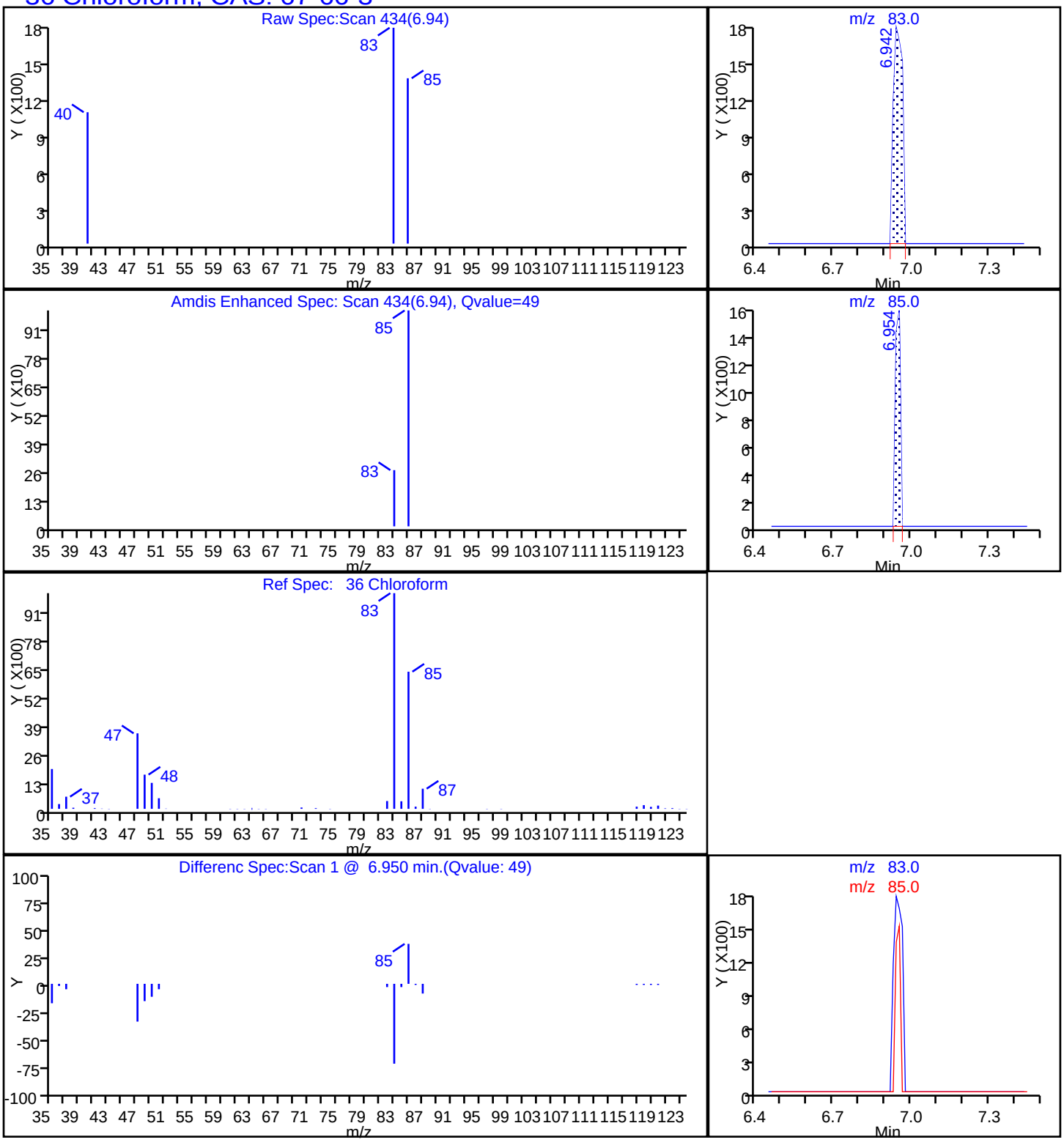
Report Date: 02-Aug-2017 15:41:09 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8170.D

Injection Date:	01-Aug-2017 18:55:30	Instrument ID:	VMSX		
Lims ID:	280-99527-A-11	Lab Sample ID:	160-99527-11		
Client ID:	FB02				
Operator ID:	JDH	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

36 Chloroform, CAS: 67-66-3



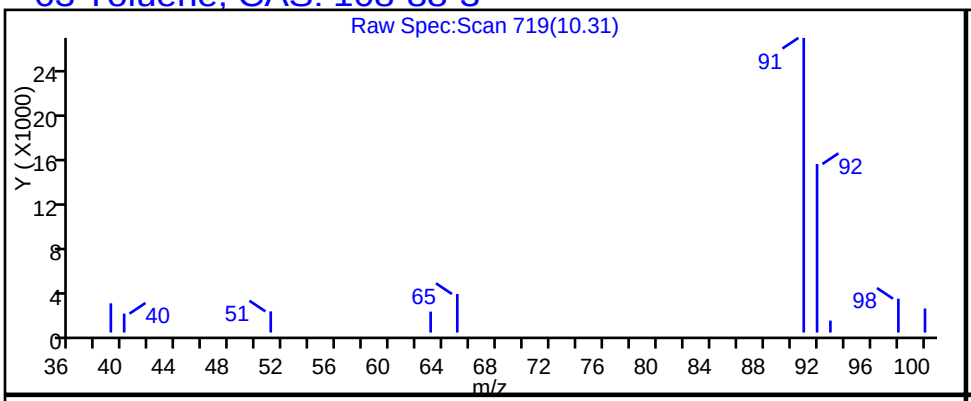
Report Date: 02-Aug-2017 15:41:09 Chrom Revision: 2.2 20-Jun-2017 07:42:38

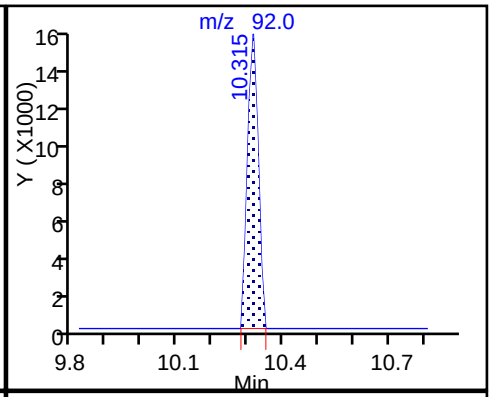
TestAmerica St. Louis

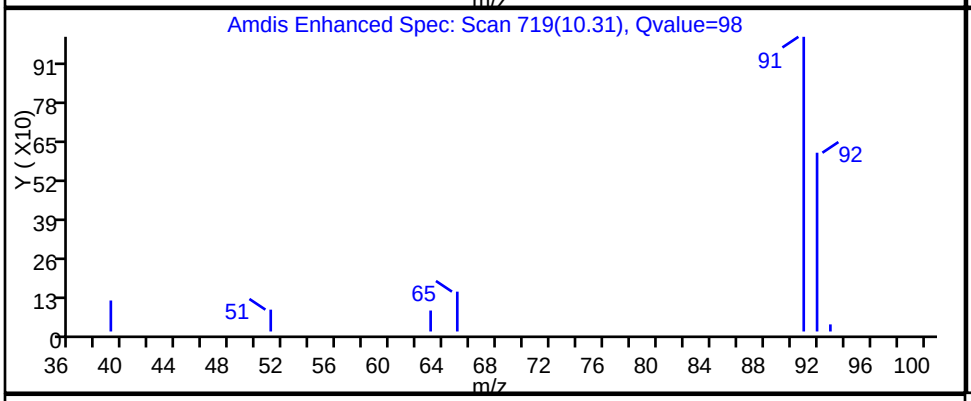
Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8170.D

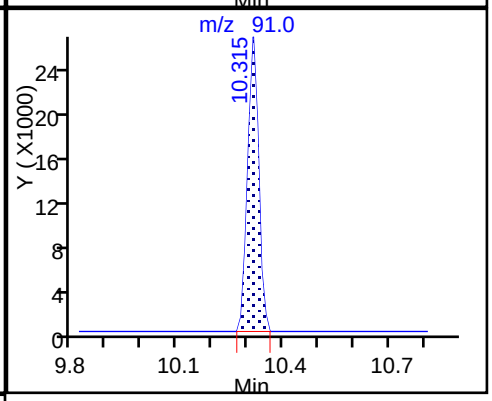
Injection Date:	01-Aug-2017 18:55:30	Instrument ID:	VMSX		
Lims ID:	280-99527-A-11	Lab Sample ID:	160-99527-11		
Client ID:	FB02				
Operator ID:	JDH	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

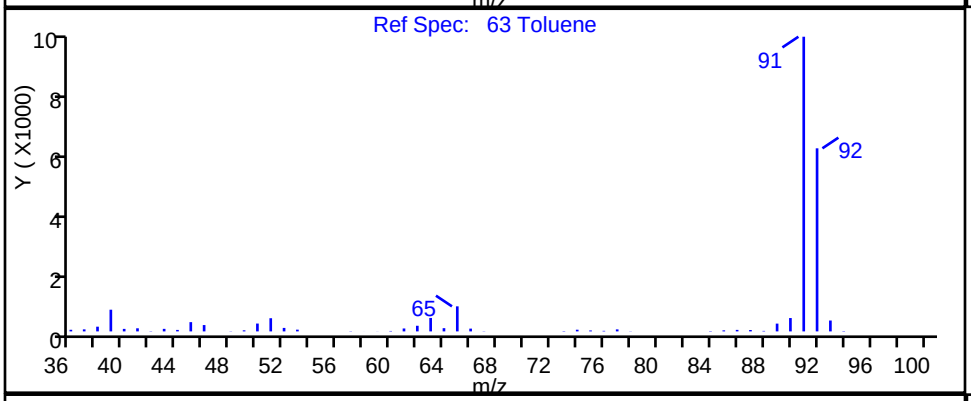
63 Toluene, CAS: 108-88-3

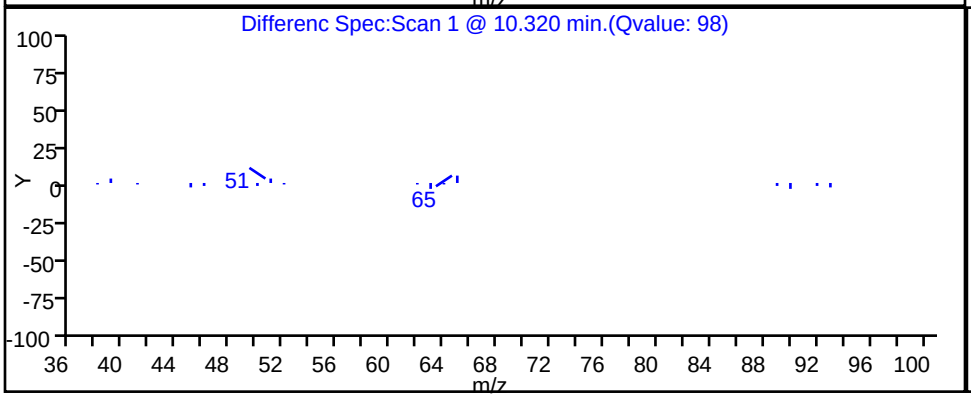


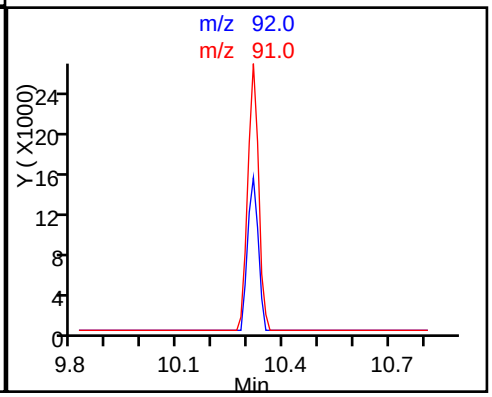












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2005D | Lab Sample ID: 280-99527-13

Matrix: Water | Lab File ID: XSMP8180.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 23:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U Q	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U Q	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U Q	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U Q	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U Q	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U Q	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U Q	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U Q	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	0.40	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2005D | Lab Sample ID: 280-99527-13

Matrix: Water | Lab File ID: XSMP8180.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 23:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U Q	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U Q	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U Q	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119	Q	81-118
460-00-4	4-Bromofluorobenzene (Surr)	90		85-114
1868-53-7	Dibromofluoromethane (Surr)	113		80-119
2037-26-5	Toluene-d8 (Surr)	98		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8180.D
Lims ID: 280-99527-A-13
Client ID: 6MW2005D
Sample Type: Client
Inject. Date: 01-Aug-2017 23:26:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-018
Misc. Info.: 280-99527-B-13
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:53:47 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:53:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.878				ND	
3 Chloromethane	50		2.091				ND	
4 Vinyl chloride	62		2.197				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.605				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.528				ND	
18 Acetone	43		4.647				ND	
19 trans-1,2-Dichloroethene	96		4.789				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	67	3437	0.4031	
33 2,2-Dichloropropane	77		6.705				ND	
35 Chlorobromomethane	128		6.824				ND	
36 Chloroform	83		6.954				ND	
37 Carbon tetrachloride	117		7.108				ND	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	93	323896	56.4	
40 1,1,1-Trichloroethane	97		7.202				ND	
42 1,1-Dichloropropene	75		7.380				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.699				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	31	323321	59.7	
49 1,2-Dichloroethane	62		7.983				ND	
* 51 Fluorobenzene	96	8.256	8.267	-0.011	99	1484413	50.0	
53 Trichloroethene	95		8.469				ND	
55 Dibromomethane	93		9.001				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.226				ND	
61 cis-1,3-Dichloropropene	75		10.031				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	94	1485072	49.2	
63 Toluene	92		10.315				ND	
65 Tetrachloroethene	164		10.776				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.811				ND	
67 trans-1,3-Dichloropropene	75		10.835				ND	
68 1,1,2-Trichloroethane	83		11.013				ND	
70 Chlorodibromomethane	129		11.202				ND	
71 1,3-Dichloropropane	76		11.308				ND	
72 Ethylene Dibromide	107		11.450				ND	
74 2-Hexanone	43		11.723				ND	
* 76 Chlorobenzene-d5	117	11.995	11.995	0.000	87	944336	50.0	
77 Chlorobenzene	112		12.007				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.078				ND	
80 m-Xylene & p-Xylene	106		12.196				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.669				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	82	457785	45.1	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.308				ND	
89 1,1,2,2-Tetrachloroethane	83		13.379				ND	
90 2-Chlorotoluene	91		13.450				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.498				ND	
95 4-Chlorotoluene	91		13.604				ND	
96 tert-Butylbenzene	119		13.782				ND	
97 1,2,4-Trimethylbenzene	105		13.841				ND	
98 sec-Butylbenzene	105		13.935				ND	
99 4-Isopropyltoluene	119		14.066				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	97	378976	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.272				ND	
110 Naphthalene	128		16.113				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

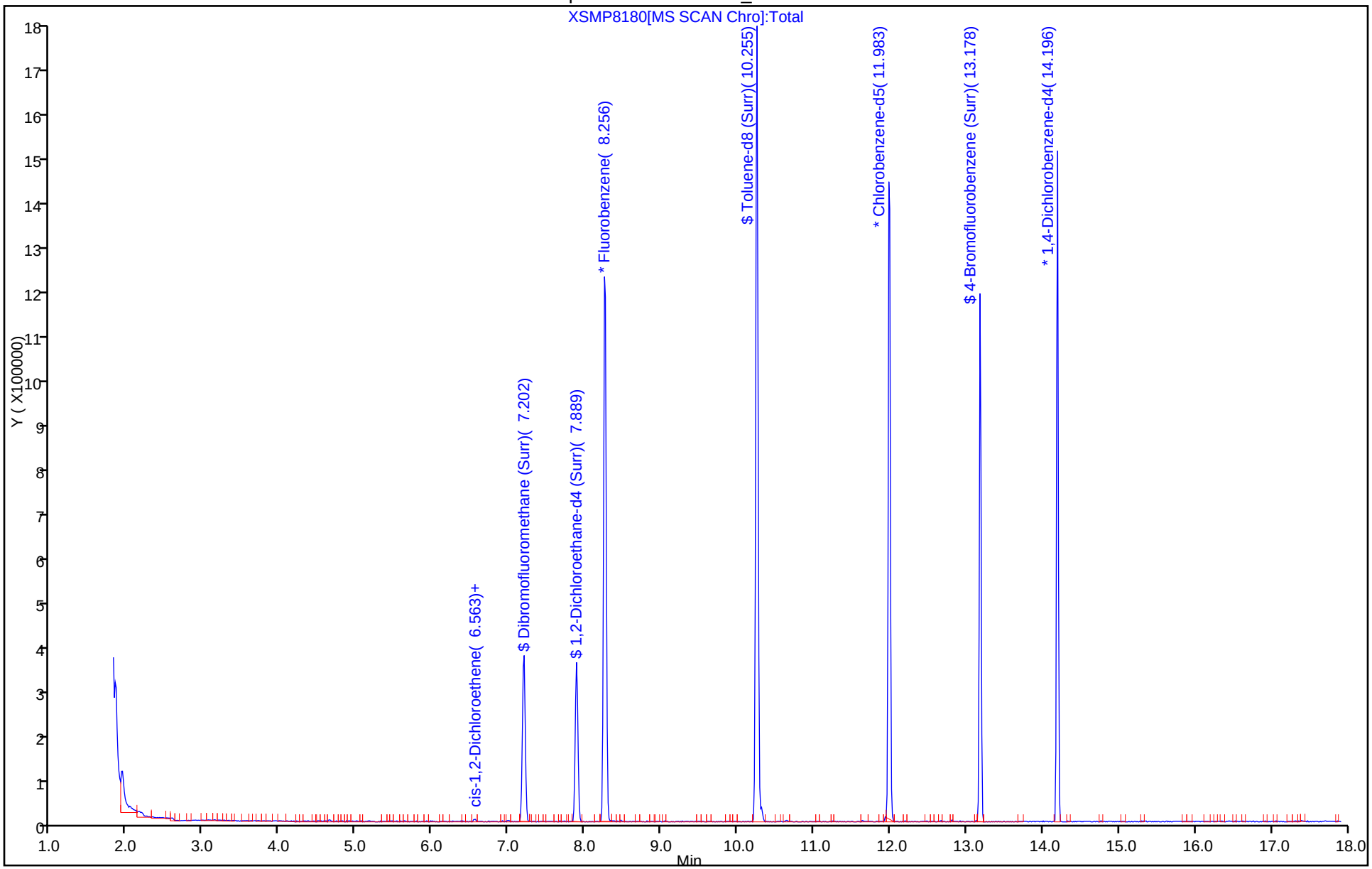
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:53:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8180.D

Injection Date:	01-Aug-2017 23:26:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-99527-A-13	Lab Sample ID:	160-99527-13	Worklist Smp#:	18
Client ID:	6MW2005D				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8180.D
Lims ID: 280-99527-A-13
Client ID: 6MW2005D
Sample Type: Client
Inject. Date: 01-Aug-2017 23:26:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-018
Misc. Info.: 280-99527-B-13
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:53:47 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:53:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	56.4	112.72
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	59.7	119.39
$ 62 Toluene-d8 (Surr)	50.0	49.2	98.35
$ 86 4-Bromofluorobenzene (Surr)	50.0	45.1	90.29

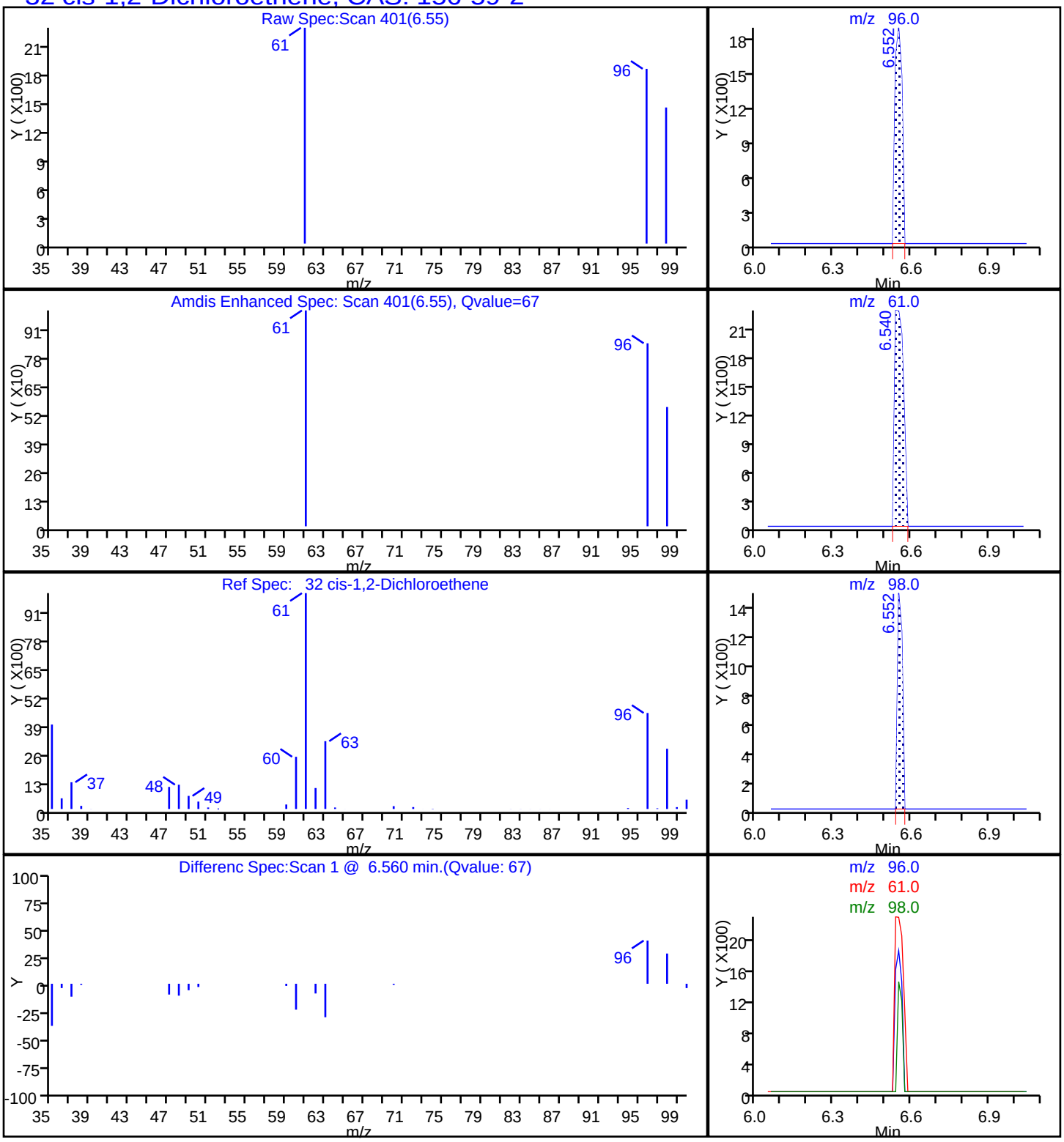
Report Date: 02-Aug-2017 15:53:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8180.D

Injection Date:	01-Aug-2017 23:26:30	Instrument ID:	VMSX		
Lims ID:	280-99527-A-13	Lab Sample ID:	160-99527-13		
Client ID:	6MW2005D				
Operator ID:	JDH	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

32 cis-1,2-Dichloroethene, CAS: 156-59-2



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1 Analy Batch No.: 315895

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/30/2017 09:17 Calibration End Date: 06/30/2017 12:12 Calibration ID: 13065

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-315895/2	XICL7919.D
Level 2	IC 160-315895/3	XICL7920.D
Level 3	IC 160-315895/4	XICL7921.D
Level 4	IC 160-315895/5	XICL7922.D
Level 5	IC 160-315895/6	XICL7923.D
Level 6	ICIS 160-315895/7	XICL7924.D
Level 7	IC 160-315895/8	XICL7925.D
Level 8	IC 160-315895/9	XICL7926.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	0.2726 0.3030	0.2974 0.2418	0.3252 0.2418	0.2983	0.3005	Ave		0.2851			0.1000	10.6		15.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 0.1480	+++++ 0.1243	0.1466 0.1240	0.1417	0.1472	Ave		0.1386			0.0100	8.2		15.0			
Chloromethane	0.3854 0.4032	0.4313 0.3408	0.4515 0.3299	0.4096	0.4172	Ave		0.3961			0.1000	10.7		15.0			
Vinyl chloride	0.3089 0.2834	0.3204 0.2507	0.3285 0.2321	0.3007	0.2964	Ave		0.2902			0.1000	11.5		15.0			
Butadiene	0.2541 0.2315	0.2643 0.1945	0.2539 0.1837	0.2509	0.2423	Ave		0.2344			0.0100	12.7		15.0			
Bromomethane	0.0766 0.0898	0.0993 0.0869	0.0921 0.0861	0.0929	0.0899	Ave		0.0892		*	0.1000	7.3		15.0			
Chloroethane	+++++ 0.0858	+++++ 0.0777	0.1002 0.0943	0.0966	0.0957	Ave		0.0917		*	0.1000	9.1		15.0			
Trichlorofluoromethane	0.1927 0.2109	0.2162 0.2044	0.2147 0.2173	0.2070	0.2145	Ave		0.2097			0.1000	3.9		15.0			
Dichlorofluoromethane	0.1846 0.2307	0.2271 0.2321	0.2418 0.2385	0.2277	0.2310	Ave		0.2267			0.0100	7.8		15.0			
Ethyl ether	0.1006 0.1195	0.1159 0.1184	0.1205 0.1191	0.1213	0.1199	Ave		0.1169			0.0100	5.8		15.0			
Ethanol	+++++ 0.0014	+++++ 0.0015	0.0014 0.0015	0.0014	0.0014	Ave		0.0014		*	0.0100	4.7		15.0			
1,1-Dichloroethene	0.2976 0.2792	0.2845 0.2546	0.3011 0.2430	0.2794	0.2823	Ave		0.2777			0.1000	7.1		15.0			
Carbon disulfide	0.9916 0.9728	1.0754 0.8139	1.1175 0.7452	1.0013	0.9962	Ave		0.9642			0.1000	13.0		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1578 0.1854	0.1990 0.1758	0.2131 0.1733	0.1962	0.1922	Ave		0.1866			0.1000	9.3		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: TestAmerica St. Louis Job No.: 280-99527-1 Analy Batch No.: 315895

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/30/2017 09:17 Calibration End Date: 06/30/2017 12:12 Calibration ID: 13065

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	+++++ 0.3361	0.3680 0.3183	0.3705 0.3170	0.3379	0.3320	Ave		0.3400			0.0100	6.4		15.0			
Acrolein	+++++ 0.0201	0.0163 0.0198	0.0178 0.0215	0.0172	0.0189	Ave		0.0188			0.0010	9.6		15.0			
3-Chloro-1-propene	0.2488 0.2963	0.2973 0.2827	0.3158 0.2781	0.2870	0.2915	Ave		0.2872			0.0100	6.7		15.0			
Isopropyl alcohol	0.0035 0.0068	0.0065 0.0072	0.0058 0.0079	0.0064	0.0066	Qua	-0.022	0.0065	0.0000007	*	0.0100				1.0000		0.9900
Methylene Chloride	0.2554 0.2431	0.2841 0.2334	0.2769 0.2291	0.2561	0.2540	Ave		0.2540			0.1000	7.6		15.0			
Acetone	+++++ 0.0363	+++++ 0.0366	0.0567 0.0365	0.0450	0.0392	Lin	0.0702	0.0360		*	0.1000				1.0000		0.9900
trans-1,2-Dichloroethene	0.2805 0.2931	0.3079 0.2793	0.3249 0.2706	0.2901	0.2986	Ave		0.2931			0.1000	5.9		15.0			
Methyl acetate	+++++ 0.0079	0.0055 0.0077	0.0076 0.0081	0.0079	0.0081	Ave		0.0075		*	0.1000	11.9		15.0			
Hexane	0.0728 0.1015	0.0903 0.0878	0.1043 0.0849	0.1020	0.1034	Ave		0.0934			0.0100	12.1		15.0			
Methyl tert-butyl ether	0.4028 0.4248	0.4278 0.4304	0.4422 0.4352	0.4099	0.4204	Ave		0.4242			0.1000	3.0		15.0			
2-Methyl-2-propanol	0.0047 0.0101	0.0085 0.0109	0.0098 0.0120	0.0096	0.0098	Lin1	-0.088	0.0114			0.0100				0.9960		0.9900
Acetonitrile	0.0134 0.0136	0.0156 0.0140	0.0144 0.0151	0.0146	0.0141	Ave		0.0143			0.0010	5.2		15.0			
Isopropyl ether	0.7126 0.7784	0.7637 0.7879	0.7705 0.7852	0.7301	0.7633	Ave		0.7615			0.0100	3.5		15.0			
2-Chloro-1,3-butadiene	0.4475 0.4921	0.4797 0.4764	0.5004 0.4671	0.4794	0.4945	Ave		0.4796			0.0100	3.5		15.0			
1,1-Dichloroethane	+++++ 0.4906	0.5519 0.4667	0.5667 0.4571	0.5133	0.4941	Ave		0.5058			0.2000	8.1		15.0			
Acrylonitrile	0.0446 0.0435	0.0485 0.0438	0.0463 0.0446	0.0433	0.0441	Ave		0.0449			0.0100	3.9		15.0			
Tert-butyl ethyl ether	0.4724 0.5790	0.5686 0.5951	0.5549 0.5943	0.5274	0.5600	Ave		0.5565			0.0100	7.3		15.0			
Vinyl acetate	0.2576 0.3068	0.3124 0.3110	0.3051 0.3477	0.3019	0.3100	Ave		0.3066			0.0100	8.0		15.0			
cis-1,2-Dichloroethene	0.2713 0.2862	0.3094 0.2856	0.2997 0.2760	0.2803	0.2893	Ave		0.2872			0.1000	4.3		15.0			
2,2-Dichloropropane	+++++ 0.2648	0.2842 0.2555	0.3117 0.2493	0.2706	0.2675	Ave		0.2720			0.0100	7.6		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: TestAmerica St. Louis Job No.: 280-99527-1 Analy Batch No.: 315895

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/30/2017 09:17 Calibration End Date: 06/30/2017 12:12 Calibration ID: 13065

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	0.4726 0.4988	0.4876 0.4532	0.5225 0.4256	0.5023	0.5044	Ave		0.4834			0.1000	6.5		15.0			
Bromochloromethane	0.0625 0.0884	0.0953 0.0854	0.0963 0.0823	0.0932	0.0926	Ave		0.0870			0.0100	12.7		15.0			
Chloroform	0.4349 0.4149	0.4593 0.4077	0.4821 0.4001	0.4222	0.4258	Ave		0.4309			0.2000	6.4		15.0			
Carbon tetrachloride	0.3049 0.3152	0.3267 0.3116	0.3332 0.3098	0.3022	0.3094	Ave		0.3141			0.1000	3.4		15.0			
Tetrahydrofuran	+++++ 0.0139	+++++ 0.0140	0.0113 0.0144	0.0108	0.0128	Ave		0.0129			0.0010	11.7		15.0			
Ethyl acetate	+++++ 0.0166	0.0079 0.0168	0.0147 0.0176	0.0148	0.0158	Lin1	-0.045	0.0174			0.0100				0.9990		0.9900
1,1,1-Trichloroethane	0.3717 0.3766	0.3983 0.3669	0.4084 0.3481	0.3834	0.3760	Ave		0.3787			0.1000	4.9		15.0			
1,1-Dichloropropene	0.3852 0.4051	0.4062 0.3963	0.4364 0.3777	0.3944	0.4062	Ave		0.4009			0.0100	4.4		15.0			
2-Butanone (MEK)	+++++ 0.0542	+++++ 0.0556	0.0553 0.0546	0.0552	0.0518	Ave		0.0545		*	0.1000	2.6		15.0			
Isooctane	1.2690 1.3326	1.3300 1.2435	1.4473 1.1878	1.3623	1.3442	Ave		1.3146			0.0100	6.1		15.0			
Benzene	1.2918 1.0809	1.2716 1.0017	1.2775 0.8993	1.1574	1.1291	Ave		1.1387			0.5000	12.4		15.0			
n-Heptane	0.5210 0.5578	0.5650 0.5055	0.6037 0.4683	0.5566	0.5624	Ave		0.5425			0.0100	7.8		15.0			
Propionitrile	+++++ 0.0156	0.0168 0.0157	0.0168 0.0159	0.0158	0.0161	Ave		0.0161			0.0010	3.1		15.0			
Methacrylonitrile	0.0725 0.0737	0.0807 0.0710	0.0824 0.0689	0.0762	0.0760	Ave		0.0751			0.0100	6.2		15.0			
Tert-amyl methyl ether	0.3504 0.4021	0.4037 0.4140	0.4016 0.4137	0.3829	0.3965	Ave		0.3956			0.0100	5.2		15.0			
1,2-Dichloroethane	0.2195 0.2254	0.2555 0.2253	0.2426 0.2258	0.2285	0.2278	Ave		0.2313			0.1000	5.1		15.0			
Isobutyl alcohol	0.0015 0.0031	0.0028 0.0033	0.0027 0.0035	0.0025	0.0029	Lin1	-0.066	0.0034			0.0010				0.9960		0.9900
Methylcyclohexane	0.4523 0.4847	0.4914 0.4531	0.5225 0.4235	0.4843	0.4910	Ave		0.4753			0.1000	6.5		15.0			
Trichloroethene	0.3439 0.2765	0.3233 0.2653	0.3289 0.2405	0.2909	0.2824	Ave		0.2939			0.2000	12.0		15.0			
n-Butanol	+++++ 0.0033	+++++ 0.0036	0.0025 0.0040	0.0025	0.0028	Lin1	-0.288	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: TestAmerica St. Louis Job No.: 280-99527-1 Analy Batch No.: 315895

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/30/2017 09:17 Calibration End Date: 06/30/2017 12:12 Calibration ID: 13065

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	0.0698 0.0965	0.1040 0.0961	0.1029 0.0946	0.0944	0.0976	Ave		0.0945			0.0100	11.2		15.0			
1,2-Dichloropropane	0.2546 0.2537	0.2583 0.2467	0.2594 0.2425	0.2493	0.2494	Ave		0.2517			0.1000	2.3		15.0			
Bromodichloromethane	0.2495 0.2767	0.2781 0.2718	0.2860 0.2693	0.2633	0.2689	Ave		0.2705			0.2000	4.0		15.0			
Ethyl acrylate	+++++ 0.1661	+++++ 0.1764	0.1406 0.1816	0.1416	0.1529	Ave		0.1598			0.0100	11.0		15.0			
Methyl methacrylate	0.0630 0.0954	0.0801 0.1006	0.0870 0.1015	0.0825	0.0915	Ave		0.0877			0.0100	14.5		15.0			
1,4-Dioxane	+++++ 0.0011	+++++ 0.0012	0.0011 0.0012	0.0011	0.0012	Ave		0.0012			0.0010	3.7		15.0			
cis-1,3-Dichloropropene	0.2744 0.3425	0.3066 0.3454	0.3094 0.3400	0.3052	0.3264	Ave		0.3187			0.2000	7.7		15.0			
Toluene	1.0601 1.1327	1.2007 1.1293	1.2373 1.1242	1.1421	1.1363	Ave		1.1454			0.4000	4.6		15.0			
2-Nitropropane	+++++ 0.0466	0.0326 0.0565	0.0299 0.0690	0.0349	0.0407	QuaF		0.0416	0.0000689		0.0100				1.0000		0.9900
Tetrachloroethene	0.3313 0.3362	0.3376 0.3446	0.3607 0.3360	0.3357	0.3269	Ave		0.3386			0.2000	3.0		15.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.1932	0.1727 0.2102	0.1666 0.2359	0.1671	0.1769	Ave		0.1890			0.1000	13.8		15.0			
trans-1,3-Dichloropropene	0.3459 0.4330	0.3740 0.4558	0.4069 0.4954	0.3852	0.4076	Ave		0.4130			0.1000	11.5		15.0			
1,1,2-Trichloroethane	0.2503 0.2105	0.2172 0.2128	0.2275 0.2318	0.2093	0.2081	Ave		0.2209			0.1000	6.7		15.0			
Ethyl methacrylate	+++++ 0.3258	+++++ 0.3566	0.2561 0.3893	0.2620	0.2911	Lin1	-1.007	0.3781			0.0100				0.9960		0.9900
Dibromochloromethane	0.2182 0.2484	0.2431 0.2638	0.2415 0.2940	0.2357	0.2315	Ave		0.2470			0.1000	9.3		15.0			
1,3-Dichloropropane	0.4545 0.4569	0.4620 0.4740	0.4742 0.5057	0.4515	0.4485	Ave		0.4659			0.0100	4.0		15.0			
1,2-Dibromoethane	0.1416 0.2214	0.1970 0.2279	0.2137 0.2499	0.2097	0.2065	Lin1	-0.137	0.2390			0.1000				0.9970		0.9900
n-Butyl acetate	+++++ 0.3415	0.2720 0.3834	0.2758 0.4412	0.2789	0.3062	QuaF		0.3156	0.0006308		0.0100				1.0000		0.9900
2-Hexanone	+++++ 0.1369	+++++ 0.1534	0.1133 0.1741	0.1173	0.1298	Lin1	-0.450	0.1663			0.1000				0.9930		0.9900
1-Chlorohexane	0.8459 0.7243	0.8157 0.7298	0.7923 0.6528	0.7016	0.7321	Ave		0.7493			0.0100	8.5		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: TestAmerica St. Louis Job No.: 280-99527-1 Analy Batch No.: 315895

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/30/2017 09:17 Calibration End Date: 06/30/2017 12:12 Calibration ID: 13065

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								
Chlorobenzene	1.1489 1.0172	1.1718 0.9913	1.1449 0.9293	1.0450	1.0250	Ave		1.0592			0.5000	8.2		15.0			
Ethylbenzene	2.3016 2.0904	2.3242 2.0736	2.3798 1.8797	2.0742	2.1268	Ave		2.1563			0.1000	7.7		15.0			
1,1,1,2-Tetrachloroethane	0.2683 0.2985	0.3115 0.3070	0.3134 0.3152	0.2883	0.2937	Ave		0.2995			0.0100	5.3		15.0			
m,p-Xylenes	0.7607 0.7713	0.7731 0.7724	0.8229 0.7349	0.7290	0.7627	Ave		0.7659			0.1000	3.7		15.0			
o-Xylene	0.6837 0.7138	0.6766 0.7245	0.7355 0.6907	0.6631	0.7085	Ave		0.6996			0.3000	3.6		15.0			
Styrene	0.9954 1.0794	1.0699 1.0876	1.1296 1.0354	1.0457	1.0628	Ave		1.0632			0.3000	3.7		15.0			
Bromoform	+++++ 0.2837	+++++ 0.2804	0.2700 0.3041	0.2593	0.2765	Ave		0.2790			0.1000	5.4		15.0			
Isopropylbenzene	4.5329 5.0678	4.8140 4.8035	5.2177 4.2963	4.7310	5.1286	Ave		4.8240			0.1000	6.5		15.0			
Bromobenzene	0.7690 0.8706	0.9065 0.8580	0.9047 0.8422	0.8398	0.8885	Ave		0.8599			0.0100	5.2		15.0			
N-Propylbenzene	5.8491 5.9721	6.0868 5.6310	6.4208 4.8366	5.6523	6.1824	Ave		5.8289			0.0100	8.2		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.6157	+++++ 0.6114	0.6824 0.6798	0.6517	0.6225	Ave		0.6439			0.3000	5.0		15.0			
2-Chlorotoluene	3.1113 3.4006	3.4255 3.3005	3.6034 3.0586	3.2637	3.4263	Ave		3.3237			0.0100	5.4		15.0			
1,3,5-Trimethylbenzene	3.3303 3.6998	3.6627 3.5377	3.9253 3.1283	3.5052	3.7813	Ave		3.5713			0.0100	7.1		15.0			
1,2,3-Trichloropropane	+++++ 0.1728	0.1865 0.1626	0.1885 0.1689	0.1839	0.1718	Ave		0.1764			0.0100	5.6		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1817	+++++ 0.1891	0.1139 0.2118	0.1531	0.1688	Lin1	-0.560	0.2057			0.0100				0.9970		0.9900
Cyclohexanone	+++++ 0.0140	+++++ 0.0163	0.0108 0.0185	0.0135	0.0131	Lin1	-0.506	0.0176			0.0010				0.9910		0.9900
4-Chlorotoluene	3.2724 3.3791	3.4276 3.3089	3.5887 3.0578	3.1605	3.3473	Ave		3.3178			0.0100	4.9		15.0			
tert-Butylbenzene	2.9072 3.3376	3.2404 3.1703	3.4389 2.8514	3.0663	3.3514	Ave		3.1704			0.0100	6.7		15.0			
1,2,4-Trimethylbenzene	3.4064 3.6196	3.7496 3.4545	3.8248 3.1398	3.5037	3.6784	Ave		3.5471			0.0100	6.2		15.0			
sec-Butylbenzene	4.8701 5.1280	5.3514 4.8353	5.5416 4.1526	4.8156	5.3319	Ave		5.0033			0.0100	8.7		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: TestAmerica St. Louis Job No.: 280-99527-1 Analy Batch No.: 315895

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/30/2017 09:17 Calibration End Date: 06/30/2017 12:12 Calibration ID: 13065

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								
p-Isopropyltoluene	3.5501 4.0321	3.8433 3.8318	4.1621 3.3247	3.6240	4.0778	Ave		3.8057			0.0100	7.6		15.0			
1,3-Dichlorobenzene	1.8487 1.6682	1.8712 1.6405	1.8636 1.5664	1.6608	1.7175	Ave		1.7296			0.6000	6.7		15.0			
1,4-Dichlorobenzene	1.8126 1.5770	1.7571 1.5165	1.7773 1.4376	1.5753	1.6137	Ave		1.6334			0.5000	8.2		15.0			
1,2,3-Trimethylbenzene	3.3593 3.1862	3.3869 3.0495	3.4735 2.7956	3.1426	3.2625	Ave		3.2070			0.0100	6.8		15.0			
Benzyl chloride	+++++ 0.1756	0.1020 0.1887	0.1396 0.2043	0.1343	0.1582	Lin1	-0.355	0.1973			0.0100				0.9960		0.9900
n-Butylbenzene	0.8760 1.0288	0.9238 0.9913	1.0422 0.8535	0.8491	1.0279	Ave		0.9491			0.0100	8.7		15.0			
1,2-Dichlorobenzene	1.5248 1.4006	1.4217 1.3646	1.5583 1.3396	1.3806	1.4255	Ave		1.4270			0.4000	5.4		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0839	+++++ 0.0845	0.0848 0.0927	0.0743	0.0772	Ave		0.0829			0.0500	7.8		15.0			
n-Nonyl Aldehyde	+++++ 0.2560	0.1578 0.3649	0.1714 +++++	0.1638	0.1945	Qua	0.0241	0.1470	0.0021759		0.0100				1.0000		0.9900
1,3,5-Trichlorobenzene	1.2279 1.1239	1.1635 1.0674	1.1377 0.9602	1.0551	1.1348	Ave		1.1088			0.0100	7.3		15.0			
Hexachlorobutadiene	0.5327 0.5020	0.5969 0.4891	0.5300 0.4129	0.4544	0.5134	Ave		0.5039			0.0100	10.9		15.0			
1,2,4-Trichlorobenzene	0.8148 0.8811	0.9119 0.8177	0.8998 0.7828	0.8166	0.8703	Ave		0.8494			0.2000	5.6		15.0			
Naphthalene	+++++ 1.6395	1.3346 1.6194	1.4501 1.6446	1.4830	1.5841	Ave		1.5365			0.0100	7.6		15.0			
1,2,3-Trichlorobenzene	+++++ 0.7082	0.7625 0.6787	0.7156 0.6377	0.6836	0.7140	Ave		0.7001			0.0100	5.5		15.0			
Dibromofluoromethane (Surr)	+++++ 0.1916	0.1987 0.1812	0.2297 0.1825	0.1824	0.1890	Ave		0.1936			0.0100	8.8		15.0			
1,2-Dichloroethane-d4 (Surr)	0.1586 0.1844	0.1728 0.1749	0.2245 0.1841	0.1829	0.1773	Ave		0.1824			0.0100	10.4		15.0			
Toluene-d8 (Surr)	1.4036 1.6178	1.5342 1.5747	1.9319 1.6128	1.5693	1.5482	Ave		1.5991			0.0100	9.4		15.0			
4-Bromofluorobenzene (Surr)	1.1257 1.3704	1.2571 1.3533	1.7127 1.3466	1.2258	1.3110	Ave		1.3378			0.0100	12.8		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: TestAmerica St. Louis Job No.: 280-99527-1 Analy Batch No.: 315895

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/30/2017 09:17 Calibration End Date: 06/30/2017 12:12 Calibration ID: 13065

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-315895/2	XICL7919.D
Level 2	IC 160-315895/3	XICL7920.D
Level 3	IC 160-315895/4	XICL7921.D
Level 4	IC 160-315895/5	XICL7922.D
Level 5	IC 160-315895/6	XICL7923.D
Level 6	ICIS 160-315895/7	XICL7924.D
Level 7	IC 160-315895/8	XICL7925.D
Level 8	IC 160-315895/9	XICL7926.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	11645 607556	28948 941860	59593 1774840	113467	244542	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	FB	Ave	+++++ 296703	+++++ 484298	26871 910369	53917	119734	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chloromethane	FB	Ave	16464 808434	41977 1327274	82743 2421431	155806	339440	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Vinyl chloride	FB	Ave	13197 568258	31186 976515	60207 1703927	114395	241164	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Butadiene	FB	Ave	10856 464223	25730 757353	46536 1348716	95438	197180	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Bromomethane	FB	Ave	3272 180101	9663 338327	16885 632095	35352	73176	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Chloroethane	FB	Ave	+++++ 171976	+++++ 302589	18361 692206	36740	77910	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	8233 422801	21041 795928	39345 1595128	78731	174527	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	7886 462552	22105 903869	44311 1750856	86607	187928	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Ethyl ether	FB	Ave	4298 239643	11283 460992	22081 874233	46162	97521	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Ethanol	FB	Ave	+++++ 113628	+++++ 230754	10625 450695	20578	44731	+++++ 2000	+++++ 4000	200 8000	400	800
1,1-Dichloroethene	FB	Ave	12712 559893	27696 991709	55174 1783495	106282	229742	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Carbon disulfide	FB	Ave	42357 1950558	104675 3169813	204790 5470715	380931	810599	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	6742 371782	19367 684613	39044 1271893	74657	156400	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Iodomethane	FB	Ave	+++++ 673859	35824 1239550	67894 2327218	128552	270140	+++++ 50.0	2.50 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1 Analy Batch No.: 315895

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/30/2017 09:17 Calibration End Date: 06/30/2017 12:12 Calibration ID: 13065

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	+++++ 201874	7949 384699	16298 787830	32747	76725	+++++ 250	12.5 500	25.0 1000	50.0	100
3-Chloro-1-propene	FB	Ave	10629 594171	28939 1101103	57864 2041609	109182	237167	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Isopropyl alcohol	FB	Qua	1487 136174	6308 279808	10554 577371	24221	53917	10.0 500	25.0 1000	50.0 2000	100	200
Methylene Chloride	FB	Ave	10908 487556	27650 908905	50743 1682146	97411	206650	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Acetone	FB	Lin	+++++ 72818	+++++ 142704	10393 267642	17130	31927	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	11980 587720	29967 1087602	59541 1986618	110367	242967	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Methyl acetate	FB	Ave	+++++ 78805	2700 150438	6942 295686	15012	32933	+++++ 250	12.5 500	25.0 1000	50.0	100
Hexane	FB	Ave	3108 203601	8791 342143	19113 623231	38787	84128	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Methyl tert-butyl ether	FB	Ave	17206 851744	41637 1676330	81029 3194560	155955	342066	1.00 50.0	2.50 100	5.00 200	10.0	20.0
2-Methyl-2-propanol	FB	Lin1	2025 203247	8237 423693	17879 877260	36393	79416	10.0 500	25.0 1000	50.0 2000	100	200
Acetonitrile	FB	Ave	5706 273430	15199 544825	26377 1108613	55365	114693	10.0 500	25.0 1000	50.0 2000	100	200
Isopropyl ether	FB	Ave	30439 1560883	74337 3068664	141202 5764083	277756	621073	1.00 50.0	2.50 100	5.00 200	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	19115 986682	46692 1855518	91701 3428966	182397	402397	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	+++++ 983701	53720 1817556	103847 3355636	195272	402058	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
Acrylonitrile	FB	Ave	19071 873045	47198 1705594	84854 3275827	164909	359146	10.0 500	25.0 1000	50.0 2000	100	200
Tert-butyl ethyl ether	FB	Ave	20180 1161055	55342 2317680	101683 4363013	200656	455645	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Vinyl acetate	FB	Ave	11002 615214	30412 1211438	55916 2552503	114864	252252	1.00 50.0	2.50 100	5.00 200	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	11589 573824	30115 1112312	54923 2026209	106618	235405	1.00 50.0	2.50 100	5.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 531018	27667 995223	57127 1829947	102929	217644	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
Cyclohexane	FB	Ave	20187 1000117	47462 1765023	95756 3124320	191099	410417	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Bromochloromethane	FB	Ave	2671 177159	9280 332691	17641 603896	35472	75347	1.00 50.0	2.50 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1 Analy Batch No.: 315895

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/30/2017 09:17 Calibration End Date: 06/30/2017 12:12 Calibration ID: 13065

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	18576 831897	44703 1587751	88350 2936875	160603	346468	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Carbon tetrachloride	FB	Ave	13024 632126	31795 1213490	61055 2274137	114962	251755	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Tetrahydrofuran	FB	Ave	+++++ 55632	+++++ 108944	4134 212130	8242	20851	+++++ 100	+++++ 200	10.0 400	20.0	40.0
Ethyl acetate	FB	Lin1	+++++ 66749	1537 130876	5380 258843	11277	25740	+++++ 100	5.00 200	10.0 400	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	15879 755229	38773 1428861	74842 2555091	145847	305946	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	16455 812357	39537 1543386	79980 2772559	150056	330493	1.00 50.0	2.50 100	5.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	+++++ 108699	+++++ 216708	10140 400736	21003	42121	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isooctane	FB	Ave	54206 2672158	129456 4843038	265235 8719122	518277	1093743	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Benzene	FB	Ave	55179 2167302	123771 3901382	234119 6601952	440323	918733	1.00 50.0	2.50 100	5.00 200	10.0	20.0
n-Heptane	FB	Ave	22256 1118440	54998 1968856	110629 3437896	211751	457633	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Propionitrile	FB	Ave	+++++ 313522	16340 610856	30824 1166379	60073	130992	+++++ 500	25.0 1000	50.0 2000	100	200
Methacrylonitrile	FB	Ave	30969 1477573	78501 2764145	150961 5054785	289729	618231	10.0 500	25.0 1000	50.0 2000	100	200
Tert-amyl methyl ether	FB	Ave	14969 806204	39299 1612436	73589 3037014	145653	322596	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,2-Dichloroethane	FB	Ave	9376 452002	24865 877400	44459 1657364	86933	185395	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Isobutyl alcohol	FB	Lin1	1621 156240	6751 317919	12434 646093	23782	59886	25.0 1250	62.5 2500	125 5000	250	500
Methylcyclohexane	FB	Ave	19320 971881	47826 1764497	95746 3109065	184253	399492	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Trichloroethene	FB	Ave	14688 554400	31469 1033164	60266 1765508	110675	229755	1.00 50.0	2.50 100	5.00 200	10.0	20.0
n-Butanol	FB	Lin1	+++++ 164158	+++++ 350149	11331 730079	24029	57138	+++++ 1250	+++++ 2500	125 5000	250	500
Dibromomethane	FB	Ave	2981 193597	10126 374311	18860 694468	35917	79436	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	10876 508645	25142 960699	47532 1780042	94840	202971	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Bromodichloromethane	FB	Ave	10659 554871	27072 1058412	52411 1976701	100178	218838	1.00 50.0	2.50 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1 Analy Batch No.: 315895

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/30/2017 09:17 Calibration End Date: 06/30/2017 12:12 Calibration ID: 13065

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
Ethyl acrylate	FB	Ave	+++++ 332986	+++++ 686922	25767 1332750	53864	124392	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methyl methacrylate	FB	Ave	5380 382600	15590 783327	31900 1489512	62788	148864	2.00 100	5.00 200	10.0 400	20.0	40.0
1,4-Dioxane	FB	Ave	+++++ 45604	+++++ 93173	4192 179986	8433	19168	+++++ 1000	+++++ 2000	100 4000	200	400
cis-1,3-Dichloropropene	FB	Ave	11723 686821	29844 1345122	56708 2495676	116095	265617	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Toluene	CBNZ d5	Ave	27234 1341110	71092 2459244	136150 4215932	258143	563822	1.00 50.0	2.50 100	5.00 200	10.0	20.0
2-Nitropropane	CBNZ d5	QuaF	+++++ 110451	3859 245997	6585 517458	15767	40412	+++++ 100	5.00 200	10.0 400	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	8511 398055	19990 750302	39694 1260016	75877	162201	1.00 50.0	2.50 100	5.00 200	10.0	20.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	+++++ 228724	10228 457766	18334 884746	37776	87777	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	8887 512719	22144 992506	44769 1857722	87071	202236	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	6430 249174	12858 463301	25028 869330	47314	103261	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Ethyl methacrylate	CBNZ d5	Lin1	+++++ 385732	+++++ 776573	28184 1459925	59221	144442	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dibromochloromethane	CBNZ d5	Ave	5605 294159	14392 574462	26575 1102362	53268	114876	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	11675 541009	27353 1032067	52177 1896449	102051	222559	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,2-Dibromoethane	CBNZ d5	Lin1	3637 262097	11666 496274	23519 937207	47404	102449	1.00 50.0	2.50 100	5.00 200	10.0	20.0
n-Butyl acetate	CBNZ d5	QuaF	+++++ 404321	16103 834878	30348 1654668	63032	151939	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
2-Hexanone	CBNZ d5	Lin1	+++++ 162037	+++++ 334012	12470 652751	26504	64415	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1-Chlorohexane	CBNZ d5	Ave	21730 857609	48293 1589188	87182 2448039	158578	363252	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	29513 1204302	69378 2158692	125975 3485114	236194	508598	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	59125 2475053	137613 4515381	261864 7049044	468799	1055259	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	6893 353362	18444 668584	34489 1182056	65151	145752	1.00 50.0	2.50 100	5.00 200	10.0	20.0
m,p-Xylenes	CBNZ d5	Ave	19541 913163	45772 1682032	90547 2755890	164763	378417	1.00 50.0	2.50 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1 Analy Batch No.: 315895

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/30/2017 09:17 Calibration End Date: 06/30/2017 12:12 Calibration ID: 13065

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
o-Xylene	CBNZ d5	Ave	17564 845158	40060 1577643	80934 2590240	149876	351540	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Styrene	CBNZ d5	Ave	25572 1277942	63346 2368233	124293 3882806	236338	527333	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Bromoform	DCBd 4	Ave	+++++ 127883	+++++ 238230	11651 445905	22689	51741	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isopropylbenzene	DCBd 4	Ave	46536 2284427	116203 4080781	225164 6299200	413909	959641	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Bromobenzene	DCBd 4	Ave	7895 392422	21881 728893	39040 1234847	73474	166258	1.00 50.0	2.50 100	5.00 200	10.0	20.0
N-Propylbenzene	DCBd 4	Ave	60048 2692047	146926 4783776	277080 7091326	494514	1156827	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 277560	+++++ 519382	29446 996710	57019	116472	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	31941 1532879	82687 2803907	155501 4484420	285536	641110	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	34189 1667754	88413 3005456	169390 4586652	306667	707534	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 77909	4502 138108	8136 247631	16092	32148	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1	+++++ 81921	+++++ 160634	4916 310504	13396	31584	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Cyclohexanone	DCBd 4	Lin1	+++++ 63202	+++++ 138072	4672 271014	11780	24464	+++++ 500	+++++ 1000	50.0 2000	100	200
4-Chlorotoluene	DCBd 4	Ave	33595 1523186	82738 2811019	154864 4483260	276507	626335	1.00 50.0	2.50 100	5.00 200	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	29846 1504498	78219 2693269	148402 4180679	268265	627106	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	34971 1631638	90509 2934735	165054 4603510	306538	688289	1.00 50.0	2.50 100	5.00 200	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	49997 2311562	129175 4107834	239141 6088436	421317	997689	1.00 50.0	2.50 100	5.00 200	10.0	20.0
p-Isopropyltoluene	DCBd 4	Ave	36446 1817541	92771 3255289	179609 4874672	317060	763016	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	18979 751985	45169 1393704	80421 2296641	145307	321364	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	18608 710858	42413 1288304	76696 2107833	137822	301945	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	34487 1436275	81754 2590703	149894 4098824	274948	610475	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Benzyl chloride	DCBd 4	Lin1	+++++ 79139	2462 160297	6026 299565	11747	29594	+++++ 50.0	2.50 100	5.00 200	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1 Analy Batch No.: 315895

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/30/2017 09:17 Calibration End Date: 06/30/2017 12:12 Calibration ID: 13065

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	8993 463761	22300 842154	44976 1251415	74287	192340	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	15654 631339	34318 1159322	67247 1964046	120789	266731	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 37827	+++++ 71783	3659 135937	6504	14441	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Nonyl Aldehyde	DCBd 4	Qua	+++++ 115386	3808 309965	7395 +++++	14330	36388	+++++ 50.0	2.50 100	5.00 +++++	10.0	20.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	12606 506631	28085 906816	49097 1407899	92306	212338	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Hexachlorobutadiene	DCBd 4	Ave	5469 226310	14408 415492	22873 605360	39755	96057	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	8365 397171	22012 694692	38831 1147667	71442	162853	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Naphthalene	DCBd 4	Ave	+++++ 739030	32215 1375730	62576 2411292	129748	296410	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 319220	18406 576622	30881 934953	59810	133606	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 384138	19339 705649	42096 1339945	69374	153808	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	6775 369802	16821 681036	41147 1351297	69569	144301	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	36057 1915481	90835 3429030	212581 6048286	354678	768197	1.00 50.0	2.50 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	11557 617717	30345 1149709	73909 1974434	107241	245303	1.00 50.0	2.50 100	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

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7919.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Jun-2017 09:17:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: ADB Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 03-Jul-2017 18:02:45 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: hannj Date: 03-Jul-2017 18:02:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	95	11645	1.00	0.9563	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.055				ND	ND	
3 Chloromethane	50	2.090	2.090	0.000	97	16464	1.00	0.9731	
4 Vinyl chloride	62	2.197	2.197	0.000	95	13197	1.00	1.06	
121 Butadiene	39	2.209	2.220	-0.011	90	10856	1.00	1.08	
5 Bromomethane	94	2.576	2.575	0.001	8	3272	1.00	0.8587	
6 Chloroethane	64		2.741				ND	ND	
7 Trichlorofluoromethane	101	2.919	2.918	0.001	94	8233	1.00	0.9191	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	94	7886	1.00	0.8145	
8 Ethyl ether	74	3.357	3.356	0.001	88	4298	1.00	0.8607	
11 Ethanol	45		3.605				ND	ND	
10 Carbon disulfide	76	3.617	3.605	0.012	98	42357	1.00	1.03	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	95	12712	1.00	1.07	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.711	-0.011	89	6742	1.00	0.8459	
13 Iodomethane	142		3.794				ND	ND	
14 Acrolein	56		4.137				ND	ND	
15 3-Chloro-1-propene	39	4.350	4.350	0.000	91	10629	1.00	0.8664	
16 Isopropyl alcohol	45	4.516	4.492	0.024	1	1487	10.0	8.69	
17 Methylene Chloride	84	4.528	4.528	0.000	93	10908	1.00	1.01	
18 Acetone	43		4.646				ND	ND	
19 trans-1,2-Dichloroethene	96	4.800	4.788	0.012	94	11980	1.00	0.9568	
20 Methyl acetate	74		4.871				ND	ND	
21 Hexane	86	4.954	4.942	0.012	90	3108	1.00	0.7792	
22 Methyl tert-butyl ether	73	5.025	5.013	0.012	88	17206	1.00	0.9496	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	6	2025	10.0	11.9	
24 Acetonitrile	41	5.380	5.380	0.000	72	5706	10.0	9.31	
25 Isopropyl ether	45	5.640	5.640	0.000	93	30439	1.00	0.9358	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	89	19115	1.00	0.9330	
28 1,1-Dichloroethane	63		5.758				ND	ND	
S 26 1,2-Dichloroethene, Total	96				0			1.90	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	95	19071	10.0	9.95	
30 Tert-butyl ethyl ether	59	6.185	6.184	0.001	89	20180	1.00	0.8490	
31 Vinyl acetate	43	6.208	6.196	0.012	48	11002	1.00	0.8401	
32 cis-1,2-Dichloroethene	96	6.551	6.551	0.000	76	11589	1.00	0.9446	
33 2,2-Dichloropropane	77		6.693				ND	ND	
34 Cyclohexane	84	6.800	6.800	0.000	87	20187	1.00	0.9777	
35 Chlorobromomethane	128	6.812	6.823	-0.011	43	2671	1.00	0.7187	
36 Chloroform	83	6.954	6.953	0.001	91	18576	1.00	1.01	
37 Carbon tetrachloride	117	7.096	7.095	0.001	89	13024	1.00	0.9707	
38 Tetrahydrofuran	71		7.166				ND	ND	
39 Ethyl acetate	45		7.178				ND	ND	
$ 41 Dibromofluoromethane (Surr	113		7.202				ND	ND	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	89	15879	1.00	0.9817	
42 1,1-Dichloropropene	75	7.368	7.379	-0.011	89	16455	1.00	0.9608	
43 2-Butanone (MEK)	43		7.403				ND	ND	
124 Isooctane	57	7.545	7.545	0.000	95	54206	1.00	0.9653	
44 Benzene	78	7.699	7.699	0.000	95	55179	1.00	1.13	
117 n-Heptane	43	7.699	7.699	0.000	70	22256	1.00	0.9603	
45 Propionitrile	54		7.770				ND	ND	
46 Methacrylonitrile	41	7.794	7.794	0.000	88	30969	10.0	9.65	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.888	0.001	85	6775	1.00	0.8694	
48 Tert-amyl methyl ether	73	7.912	7.900	0.012	89	14969	1.00	0.8858	
49 1,2-Dichloroethane	62	7.983	7.983	0.000	91	9376	1.00	0.9490	
50 Isobutyl alcohol	42	8.102	8.101	0.001	37	1621	25.0	30.7	
* 51 Fluorobenzene	96	8.255	8.267	-0.012	99	2135783	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.444	0.001	89	19320	1.00	0.9515	
53 Trichloroethene	95	8.468	8.468	0.000	92	14688	1.00	1.17	
54 n-Butanol	56		8.989				ND	ND	
55 Dibromomethane	93	8.989	9.001	-0.012	80	2981	1.00	0.7385	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	89	10876	1.00	1.01	
123 Ethyl acrylate	55		9.225				ND	ND	
57 Dichlorobromomethane	83	9.226	9.225	0.001	90	10659	1.00	0.9226	
58 Methyl methacrylate	69	9.474	9.474	0.000	76	5380	2.00	1.44	
59 1,4-Dioxane	88		9.498				ND	ND	
61 cis-1,3-Dichloropropene	75	10.018	10.030	-0.012	88	11723	1.00	0.8610	
60 2-Chloroethyl vinyl ether	63		10.030				ND	ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	36057	1.00	0.8778	
63 Toluene	92	10.314	10.314	0.000	98	27234	1.00	0.9256	
64 2-Nitropropane	43		10.622				ND	ND	
65 Tetrachloroethene	164	10.764	10.776	-0.012	91	8511	1.00	0.9784	
66 4-Methyl-2-pentanone (MIBK	43		10.811				ND	ND	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	85	8887	1.00	0.8377	
68 1,1,2-Trichloroethane	83	11.012	11.012	0.000	80	6430	1.00	1.13	
69 Ethyl methacrylate	69		11.048				ND	ND	
70 Chlorodibromomethane	129	11.190	11.202	-0.012	83	5605	1.00	0.8833	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	90	11675	1.00	0.9754	
72 Ethylene Dibromide	107	11.450	11.450	0.000	34	3637	1.00	1.17	
S 73 1,3-Dichloropropene, Total	75				0			1.70	
118 n-Butyl acetate	43		11.639				ND	ND	
74 2-Hexanone	43		11.722				ND	ND	
* 76 Chlorobenzene-d5	117	11.983	11.994	-0.011	87	1284455	50.0	50.0	
75 1-Chlorohexane	91	11.995	12.006	-0.011	53	21730	1.00	1.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.006	12.006	0.000	96	29513	1.00	1.08	
78 Ethylbenzene	91	12.042	12.042	0.000	98	59125	1.00	1.07	
79 1,1,1,2-Tetrachloroethane	131	12.077	12.077	0.000	91	6893	1.00	0.8959	
80 m-Xylene & p-Xylene	106	12.196	12.195	0.001	95	19541	1.00	0.99	
82 o-Xylene	106	12.610	12.610	0.000	96	17564	1.00	0.9773	
83 Styrene	104	12.669	12.669	0.000	92	25572	1.00	0.9363	
84 Bromoform	173		12.681				ND	ND	
85 Isopropylbenzene	105	12.918	12.917	0.001	94	46536	1.00	0.9397	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	79	11557	1.00	0.8415	
87 Bromobenzene	156	13.273	13.272	0.000	91	7895	1.00	0.8943	
88 N-Propylbenzene	91	13.308	13.308	0.000	99	60048	1.00	1.00	
89 1,1,2,2-Tetrachloroethane	83		13.379				ND	ND	
90 2-Chlorotoluene	91	13.438	13.450	-0.012	96	31941	1.00	0.9361	
91 1,3,5-Trimethylbenzene	105	13.486	13.485	0.001	93	34189	1.00	0.9325	
92 1,2,3-Trichloropropane	110		13.497				ND	ND	
94 Cyclohexanone	55		13.533				ND	ND	
93 trans-1,4-Dichloro-2-buten	53		13.544				ND	ND	
95 4-Chlorotoluene	91	13.592	13.604	-0.012	95	33595	1.00	0.9863	
96 tert-Butylbenzene	119	13.781	13.781	0.000	93	29846	1.00	0.9170	
97 1,2,4-Trimethylbenzene	105	13.840	13.840	0.000	95	34971	1.00	0.9603	
98 sec-Butylbenzene	105	13.935	13.935	0.000	92	49997	1.00	0.9734	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	97	36446	1.00	0.9328	
100 1,3-Dichlorobenzene	146	14.124	14.124	0.000	94	18979	1.00	1.07	
* 101 1,4-Dichlorobenzene-d4	152	14.195	14.195	0.000	97	513309	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	91	18608	1.00	1.11	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	94	34487	1.00	1.05	
120 Benzyl chloride	126		14.432				ND	ND	
103 n-Butylbenzene	134	14.432	14.432	0.000	96	8993	1.00	0.9230	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	93	15654	1.00	1.07	
105 1,2-Dibromo-3-Chloropropan	157		15.272				ND	ND	
106 n-Nonyl Aldehyde	57		15.284				ND	ND	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	93	12606	1.00	1.11	
108 Hexachlorobutadiene	225	15.805	15.805	0.001	88	5469	1.00	1.06	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	89	8365	1.00	0.9593	
110 Naphthalene	128		16.112				ND	ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	ND	
S 112 Xylenes, Total	106				0			1.97	
S 113 Trihalomethanes, Total	1				0			2.82	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

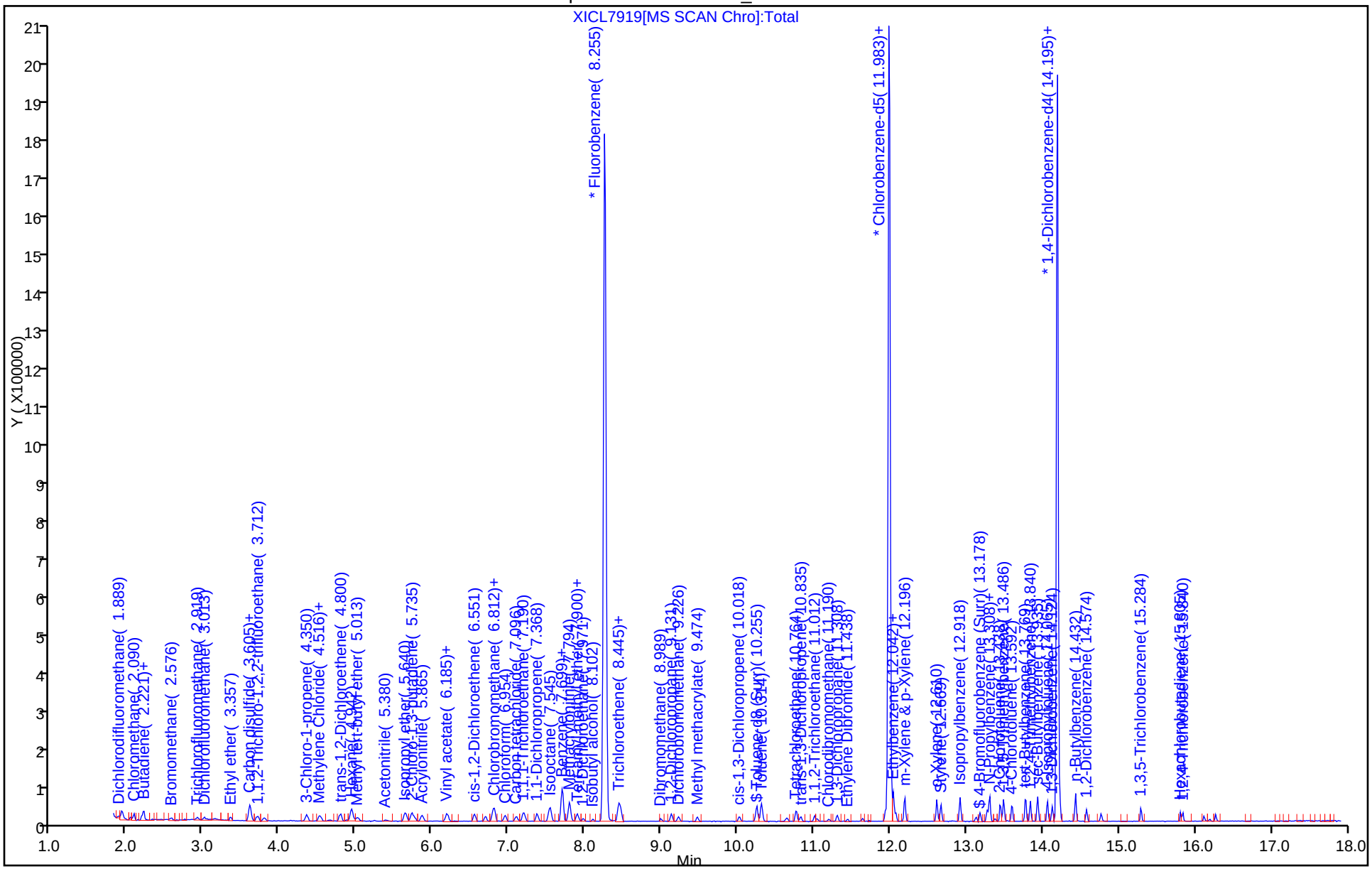
8260 Surr 25_00075	Amount Added: 0.20	Units: uL	
8260 NewWkMix_00225	Amount Added: 0.20	Units: uL	
I.S. Working_00149	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Jul-2017 18:02:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7919.D

Injection Date:	30-Jun-2017 09:17:30	Instrument ID:	VMSX	Operator ID:	ADB
Lims ID:	IC			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7920.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Jun-2017 09:42:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: ADB Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 03-Jul-2017 18:03:04 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: hannj Date: 03-Jul-2017 18:03:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	97	28948	2.50	2.61	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.055				ND	ND	
3 Chloromethane	50	2.078	2.078	0.000	98	41977	2.50	2.72	
4 Vinyl chloride	62	2.185	2.185	0.000	96	31186	2.50	2.76	
121 Butadiene	39	2.209	2.209	0.000	89	25730	2.50	2.82	
5 Bromomethane	94	2.575	2.575	0.000	82	9663	2.50	2.78	
6 Chloroethane	64		2.741				ND	ND	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	96	21041	2.50	2.58	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	93	22105	2.50	2.50	
8 Ethyl ether	74	3.345	3.345	0.000	92	11283	2.50	2.48	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	92	27696	2.50	2.56	
10 Carbon disulfide	76	3.605	3.605	0.000	99	104675	2.50	2.79	
11 Ethanol	45		3.605				ND	ND	
12 1,1,2-Trichloro-1,2,2-trif	151	3.711	3.711	0.000	92	19367	2.50	2.67	
13 Iodomethane	142	3.794	3.794	0.000	97	35824	2.50	2.71	
14 Acrolein	56	4.137	4.137	0.000	94	7949	12.5	10.9	
15 3-Chloro-1-propene	39	4.350	4.350	0.000	92	28939	2.50	2.59	
16 Isopropyl alcohol	45	4.504	4.504	0.000	1	6308	25.0	28.1	
17 Methylene Chloride	84	4.528	4.528	0.000	90	27650	2.50	2.80	
18 Acetone	43		4.646				ND	ND	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	96	29967	2.50	2.63	
20 Methyl acetate	74	4.871	4.871	0.000	95	2700	12.5	9.20	
21 Hexane	86	4.942	4.942	0.000	87	8791	2.50	2.42	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	96	41637	2.50	2.52	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	93	8237	25.0	26.4	
24 Acetonitrile	41	5.380	5.380	0.000	92	15199	25.0	27.2	
25 Isopropyl ether	45	5.640	5.640	0.000	93	74337	2.50	2.51	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	91	46692	2.50	2.50	
28 1,1-Dichloroethane	63	5.758	5.758	0.000	95	53720	2.50	2.73	
29 Acrylonitrile	53	5.865	5.865	0.000	97	47198	25.0	27.0	

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	6.184	6.184	0.000	98	55342	2.50	2.55	
31 Vinyl acetate	43	6.196	6.196	0.000	97	30412	2.50	2.55	
32 cis-1,2-Dichloroethene	96	6.551	6.551	0.000	79	30115	2.50	2.69	
33 2,2-Dichloropropane	77	6.693	6.693	0.000	90	27667	2.50	2.61	
34 Cyclohexane	84	6.800	6.800	0.000	91	47462	2.50	2.52	
35 Chlorobromomethane	128	6.823	6.823	0.000	97	9280	2.50	2.74	
36 Chloroform	83	6.954	6.954	0.000	93	44703	2.50	2.66	
37 Carbon tetrachloride	117	7.096	7.096	0.000	94	31795	2.50	2.60	
38 Tetrahydrofuran	71		7.166				ND	ND	
39 Ethyl acetate	45	7.178	7.178	0.000	65	1537	5.00	4.86	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	95	38773	2.50	2.63	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	72	19339	2.50	2.57	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	95	39537	2.50	2.53	
43 2-Butanone (MEK)	43		7.403				ND	ND	
124 Isooctane	57	7.533	7.533	0.000	96	129456	2.50	2.53	
117 n-Heptane	43	7.699	7.699	0.000	69	54998	2.50	2.60	
44 Benzene	78	7.699	7.699	0.000	96	123771	2.50	2.79	
45 Propionitrile	54	7.770	7.770	0.000	90	16340	25.0	26.1	
46 Methacrylonitrile	41	7.794	7.794	0.000	91	78501	25.0	26.8	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.888	7.888	0.000	88	16821	2.50	2.37	
48 Tert-amyl methyl ether	73	7.900	7.900	0.000	93	39299	2.50	2.55	
49 1,2-Dichloroethane	62	7.971	7.971	0.000	96	24865	2.50	2.76	
50 Isobutyl alcohol	42	8.101	8.101	0.000	90	6751	62.5	70.7	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	1946707	50.0	50.0	
52 Methylcyclohexane	55	8.444	8.444	0.000	89	47826	2.50	2.58	
53 Trichloroethene	95	8.468	8.468	0.000	97	31469	2.50	2.75	
54 n-Butanol	56	8.989	8.989	0.000	46	5848	62.5	113.9	
55 Dibromomethane	93	9.001	9.001	0.000	90	10126	2.50	2.75	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	95	25142	2.50	2.57	
57 Dichlorobromomethane	83	9.225	9.225	0.000	95	27072	2.50	2.57	
123 Ethyl acrylate	55		9.225				ND	ND	
58 Methyl methacrylate	69	9.474	9.474	0.000	92	15590	5.00	4.57	
59 1,4-Dioxane	88		9.498				ND	ND	
61 cis-1,3-Dichloropropene	75	10.018	10.018	0.000	96	29844	2.50	2.40	
60 2-Chloroethyl vinyl ether	63		10.030				ND	ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	90835	2.50	2.40	
63 Toluene	92	10.314	10.314	0.000	98	71092	2.50	2.62	
64 2-Nitropropane	43	10.610	10.610	0.000	49	3859	5.00	3.90	
65 Tetrachloroethene	164	10.764	10.764	0.000	90	19990	2.50	2.49	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	88	10228	2.50	2.29	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	90	22144	2.50	2.26	
68 1,1,2-Trichloroethane	83	11.012	11.012	0.000	84	12858	2.50	2.46	
69 Ethyl methacrylate	69		11.048				ND	ND	
70 Chlorodibromomethane	129	11.202	11.202	0.000	84	14392	2.50	2.46	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	27353	2.50	2.48	
72 Ethylene Dibromide	107	11.438	11.438	0.000	96	11666	2.50	2.63	
118 n-Butyl acetate	43	11.639	11.639	0.000	94	16103	2.50	2.15	
74 2-Hexanone	43		11.722				ND	ND	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	87	1184157	50.0	50.0	
77 Chlorobenzene	112	12.006	12.006	0.000	97	69378	2.50	2.77	
75 1-Chlorohexane	91	11.994	11.994	0.000	66	48293	2.50	2.72	
78 Ethylbenzene	91	12.042	12.042	0.000	99	137613	2.50	2.69	

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	12.077	12.077	0.000	94	18444	2.50	2.60	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	95	45772	2.50	2.52	
82 o-Xylene	106	12.610	12.610	0.000	97	40060	2.50	2.42	
83 Styrene	104	12.669	12.669	0.000	94	63346	2.50	2.52	
84 Bromoform	173		12.681				ND	ND	
85 Isopropylbenzene	105	12.917	12.917	0.000	95	116203	2.50	2.49	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	81	30345	2.50	2.35	
87 Bromobenzene	156	13.272	13.272	0.000	92	21881	2.50	2.64	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	146926	2.50	2.61	
89 1,1,2,2-Tetrachloroethane	83		13.379				ND	ND	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	82687	2.50	2.58	
91 1,3,5-Trimethylbenzene	105	13.485	13.485	0.000	93	88413	2.50	2.56	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	81	4502	2.50	2.64	
94 Cyclohexanone	55		13.533				ND	ND	
93 trans-1,4-Dichloro-2-buten	53		13.544				ND	ND	
95 4-Chlorotoluene	91	13.604	13.604	0.000	97	82738	2.50	2.58	
96 tert-Butylbenzene	119	13.781	13.781	0.000	93	78219	2.50	2.56	
97 1,2,4-Trimethylbenzene	105	13.840	13.840	0.000	96	90509	2.50	2.64	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	129175	2.50	2.67	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	96	92771	2.50	2.52	
100 1,3-Dichlorobenzene	146	14.124	14.124	0.000	96	45169	2.50	2.70	
* 101 1,4-Dichlorobenzene-d4	152	14.195	14.195	0.000	97	482772	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	93	42413	2.50	2.69	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	95	81754	2.50	2.64	
103 n-Butylbenzene	134	14.432	14.432	0.000	98	22300	2.50	2.43	
120 Benzyl chloride	126	14.432	14.432	0.000	41	2462	2.50	3.09	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	94	34318	2.50	2.49	
105 1,2-Dibromo-3-Chloropropan	157		15.272				ND	ND	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	1	3808	2.50	2.43	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	95	28085	2.50	2.62	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	94	14408	2.50	2.96	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	91	22012	2.50	2.68	
110 Naphthalene	128	16.112	16.112	0.000	96	32215	2.50	2.17	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	91	18406	2.50	2.72	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

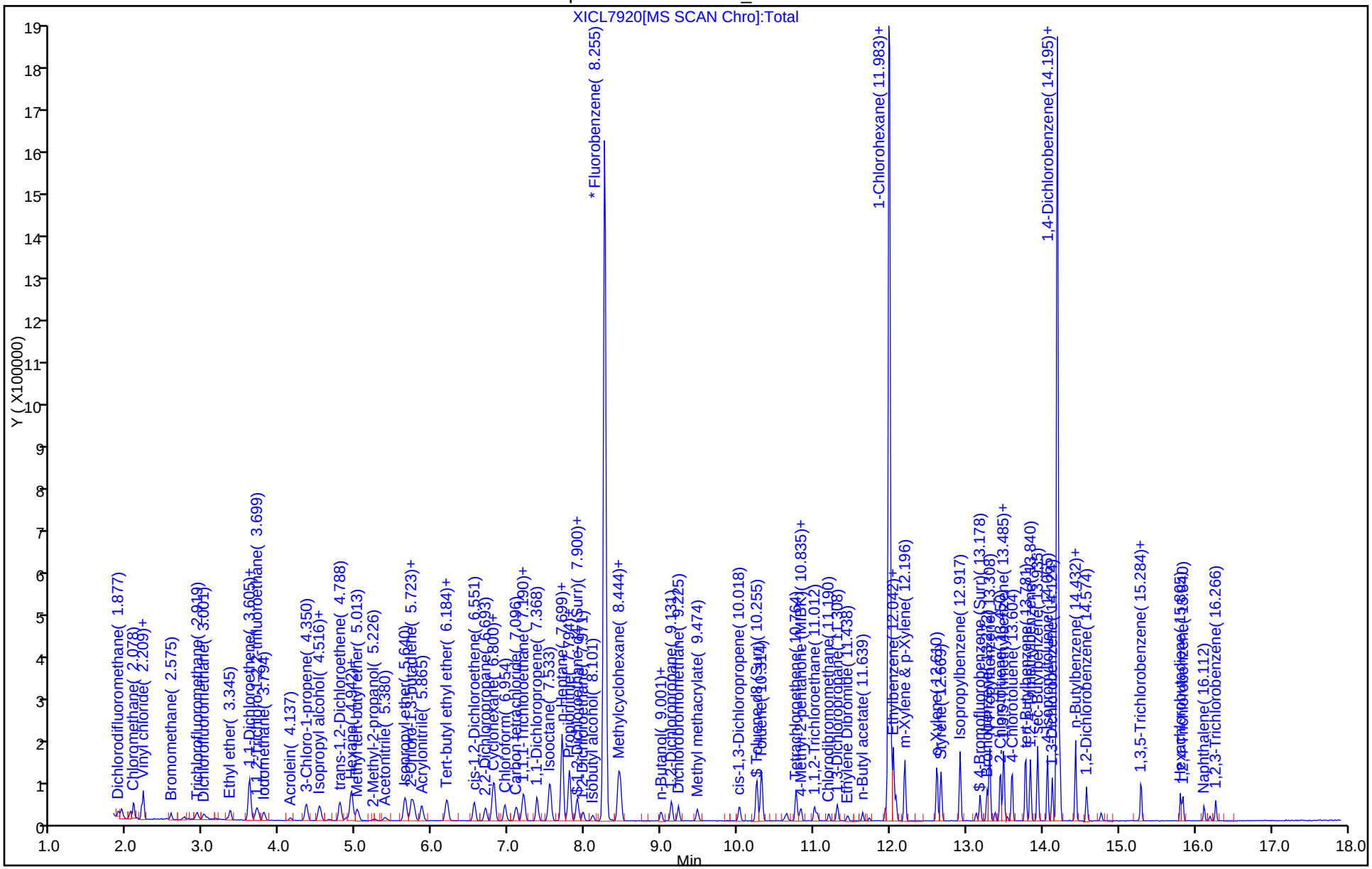
8260 Surr 25_00075	Amount Added: 0.50	Units: uL	
8260 NewWkMix_00225	Amount Added: 0.50	Units: uL	
I.S. Working_00149	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Jul-2017 18:03:05 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7920.D

Injection Date:	30-Jun-2017 09:42:30	Instrument ID:	VMSX	Operator ID:	ADB
Lims ID:	IC			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7921.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Jun-2017 10:07:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: ADB Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 03-Jul-2017 18:03:16 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: hannj Date: 03-Jul-2017 18:03:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	98	59593	5.00	5.70	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.055	-0.012	71	26871	5.00	5.29	
3 Chloromethane	50	2.090	2.078	0.012	98	82743	5.00	5.70	
4 Vinyl chloride	62	2.197	2.185	0.012	97	60207	5.00	5.66	
121 Butadiene	39	2.221	2.209	0.012	88	46536	5.00	5.42	
5 Bromomethane	94	2.576	2.575	0.001	91	16885	5.00	5.16	
6 Chloroethane	64	2.741	2.741	0.000	95	18361	5.00	5.46	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	39345	5.00	5.12	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	96	44311	5.00	5.33	
8 Ethyl ether	74	3.356	3.345	0.012	92	22081	5.00	5.15	
11 Ethanol	45	3.605	3.605	0.000	26	10625	200.0	202.0	
10 Carbon disulfide	76	3.605	3.605	0.000	99	204790	5.00	5.79	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	94	55174	5.00	5.42	
12 1,1,2-Trichloro-1,2,2-trif	151	3.711	3.711	0.000	93	39044	5.00	5.71	
13 Iodomethane	142	3.794	3.794	0.000	96	67894	5.00	5.45	
14 Acrolein	56	4.149	4.137	0.012	96	16298	25.0	23.7	
15 3-Chloro-1-propene	39	4.350	4.350	0.000	93	57864	5.00	5.50	
16 Isopropyl alcohol	45	4.504	4.504	0.000	95	10554	50.0	47.3	
17 Methylene Chloride	84	4.528	4.528	0.000	93	50743	5.00	5.45	
18 Acetone	43	4.646	4.646	0.000	97	10393	5.00	5.92	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	98	59541	5.00	5.54	
20 Methyl acetate	74	4.883	4.871	0.012	95	6942	25.0	25.1	
21 Hexane	86	4.942	4.942	0.000	88	19113	5.00	5.58	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	1	81029	5.00	5.21	
23 2-Methyl-2-propanol	59	5.226	5.238	-0.012	91	17879	50.0	50.6	
24 Acetonitrile	41	5.392	5.380	0.012	96	26377	50.0	50.2	
25 Isopropyl ether	45	5.640	5.640	0.000	93	141202	5.00	5.06	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	91	91701	5.00	5.22	
28 1,1-Dichloroethane	63	5.770	5.758	0.012	95	103847	5.00	5.60	
S 26 1,2-Dichloroethene, Total	96				0			10.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	100	84854	50.0	51.6	
30 Tert-butyl ethyl ether	59	6.185	6.184	0.001	96	101683	5.00	4.99	
31 Vinyl acetate	43	6.208	6.196	0.012	97	55916	5.00	4.98	
32 cis-1,2-Dichloroethene	96	6.551	6.551	0.000	79	54923	5.00	5.22	
33 2,2-Dichloropropane	77	6.693	6.693	0.000	93	57127	5.00	5.73	
34 Cyclohexane	84	6.800	6.800	0.000	90	95756	5.00	5.40	
35 Chlorobromomethane	128	6.824	6.823	0.001	94	17641	5.00	5.53	
36 Chloroform	83	6.954	6.954	0.000	92	88350	5.00	5.59	
37 Carbon tetrachloride	117	7.096	7.096	0.000	96	61055	5.00	5.30	
38 Tetrahydrofuran	71	7.167	7.166	0.001	49	4134	10.0	8.76	
39 Ethyl acetate	45	7.179	7.178	0.000	94	5380	10.0	11.0	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.202	-0.012	91	42096	5.00	5.93	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	97	74842	5.00	5.39	
42 1,1-Dichloropropene	75	7.380	7.368	0.012	97	79980	5.00	5.44	
43 2-Butanone (MEK)	43	7.403	7.403	0.000	97	10140	5.00	5.08	
124 Isooctane	57	7.545	7.533	0.012	95	265235	5.00	5.50	
44 Benzene	78	7.699	7.699	0.000	96	234119	5.00	5.61	
117 n-Heptane	43	7.699	7.699	0.000	72	110629	5.00	5.56	
45 Propionitrile	54	7.770	7.770	0.000	94	30824	50.0	52.2	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	150961	50.0	54.8	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.888	7.888	0.000	89	41147	5.00	6.15	
48 Tert-amyl methyl ether	73	7.900	7.900	0.000	93	73589	5.00	5.08	
49 1,2-Dichloroethane	62	7.971	7.971	0.000	96	44459	5.00	5.24	
50 Isobutyl alcohol	42	8.101	8.101	0.000	94	12434	125.0	119.8	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	1832574	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.444	0.001	90	95746	5.00	5.50	
53 Trichloroethene	95	8.468	8.468	0.000	98	60266	5.00	5.59	
54 n-Butanol	56	8.989	8.989	0.000	51	11331	125.0	155.2	
55 Dibromomethane	93	9.001	9.001	0.000	91	18860	5.00	5.45	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	96	47532	5.00	5.15	
123 Ethyl acrylate	55	9.226	9.225	0.001	12	25767	5.00	4.40	
57 Dichlorobromomethane	83	9.226	9.225	0.001	98	52411	5.00	5.29	
58 Methyl methacrylate	69	9.474	9.474	0.000	92	31900	10.0	9.93	
59 1,4-Dioxane	88	9.498	9.498	0.000	1	4192	100.0	98.2	M
61 cis-1,3-Dichloropropene	75	10.030	10.018	0.012	96	56708	5.00	4.85	
60 2-Chloroethyl vinyl ether	63		10.030				ND	ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	212581	5.00	6.04	
63 Toluene	92	10.314	10.314	0.000	98	136150	5.00	5.40	
64 2-Nitropropane	43	10.610	10.610	0.000	93	6585	10.0	7.12	
65 Tetrachloroethene	164	10.776	10.764	0.012	94	39694	5.00	5.33	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	92	18334	5.00	4.41	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	92	44769	5.00	4.93	
68 1,1,2-Trichloroethane	83	11.012	11.012	0.000	87	25028	5.00	5.15	
69 Ethyl methacrylate	69	11.048	11.048	0.000	41	28184	5.00	6.05	
70 Chlorodibromomethane	129	11.202	11.202	0.000	87	26575	5.00	4.89	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	52177	5.00	5.09	
72 Ethylene Dibromide	107	11.438	11.438	0.000	95	23519	5.00	5.04	
S 73 1,3-Dichloropropene, Total	75				0			9.78	
118 n-Butyl acetate	43	11.640	11.639	0.001	97	30348	5.00	4.33	
74 2-Hexanone	43	11.722	11.722	0.000	95	12470	5.00	6.11	
* 76 Chlorobenzene-d5	117	11.995	11.983	0.011	88	1100345	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.994	0.000	33	87182	5.00	5.29	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.006	12.006	0.000	96	125975	5.00	5.40	
78 Ethylbenzene	91	12.042	12.042	0.000	98	261864	5.00	5.52	
79 1,1,1,2-Tetrachloroethane	131	12.077	12.077	0.000	92	34489	5.00	5.23	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	97	90547	5.00	5.37	
82 o-Xylene	106	12.610	12.610	0.000	96	80934	5.00	5.26	
83 Styrene	104	12.669	12.669	0.000	95	124293	5.00	5.31	
84 Bromoform	173	12.681	12.681	0.000	93	11651	5.00	4.84	
85 Isopropylbenzene	105	12.917	12.917	0.000	96	225164	5.00	5.41	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	82	73909	5.00	6.40	
87 Bromobenzene	156	13.272	13.272	0.000	93	39040	5.00	5.26	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	277080	5.00	5.51	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	30	29446	5.00	5.30	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	155501	5.00	5.42	
91 1,3,5-Trimethylbenzene	105	13.485	13.485	0.000	94	169390	5.00	5.50	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	79	8136	5.00	5.34	
94 Cyclohexanone	55	13.545	13.533	0.012	65	4672	50.0	59.5	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.544	-0.011	1	4916	5.00	5.49	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	154864	5.00	5.41	
96 tert-Butylbenzene	119	13.781	13.781	0.000	93	148402	5.00	5.42	
97 1,2,4-Trimethylbenzene	105	13.840	13.840	0.000	97	165054	5.00	5.39	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	239141	5.00	5.54	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	97	179609	5.00	5.47	
100 1,3-Dichlorobenzene	146	14.124	14.124	0.000	97	80421	5.00	5.39	
* 101 1,4-Dichlorobenzene-d4	152	14.195	14.195	0.000	97	431537	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	94	76696	5.00	5.44	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	96	149894	5.00	5.42	
120 Benzyl chloride	126	14.432	14.432	0.000	89	6026	5.00	5.34	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	44976	5.00	5.49	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	97	67247	5.00	5.46	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	1	3659	5.00	5.11	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	19	7395	5.00	5.26	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	96	49097	5.00	5.13	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	95	22873	5.00	5.26	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	93	38831	5.00	5.30	
110 Naphthalene	128	16.112	16.112	0.000	96	62576	5.00	4.72	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	93	30881	5.00	5.11	
S 112 Xylenes, Total	106				0			10.6	
S 113 Trihalomethanes, Total	1				0			20.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

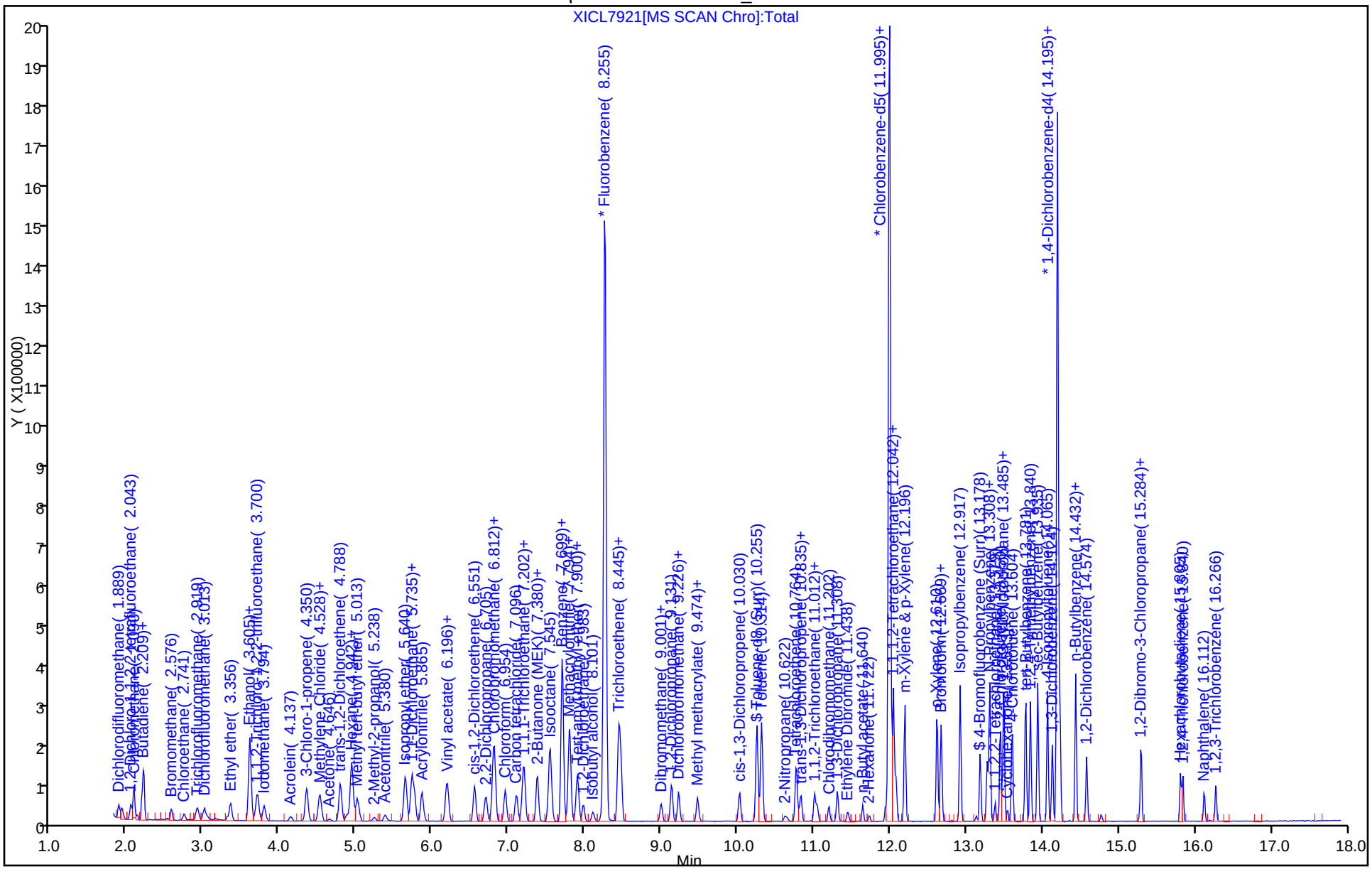
8260 Surr 25_00075	Amount Added: 1.00	Units: uL	
8260 NewWkMix_00225	Amount Added: 1.00	Units: uL	
I.S. Working_00149	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Jul-2017 18:03:19 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7921.D

Injection Date:	30-Jun-2017 10:07:30	Instrument ID:	VMSX	Operator ID:	ADB
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

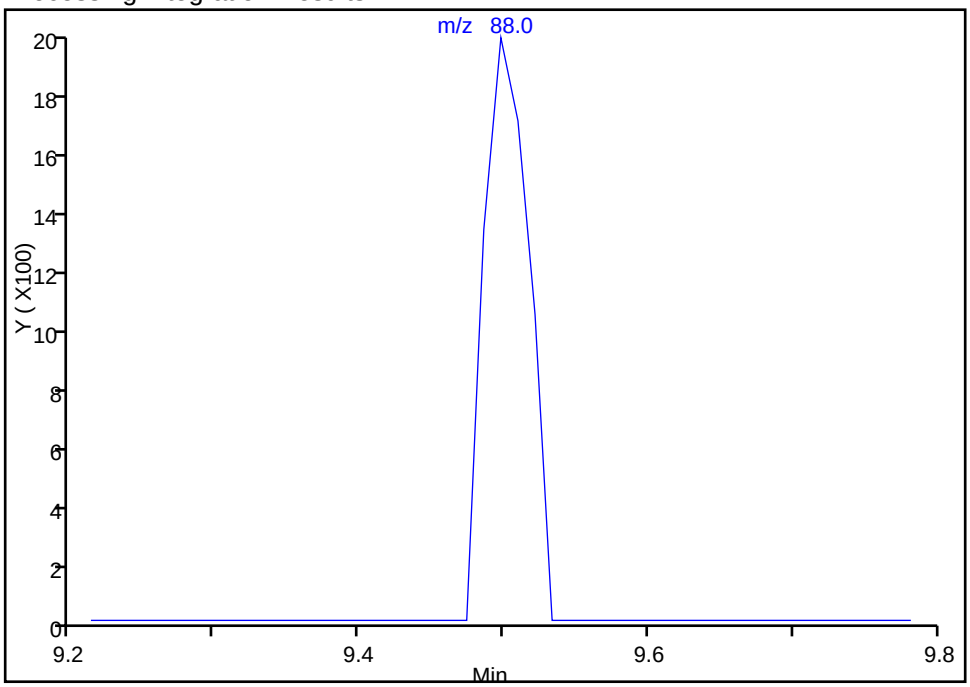
Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7921.D
Injection Date: 30-Jun-2017 10:07:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: ADB ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

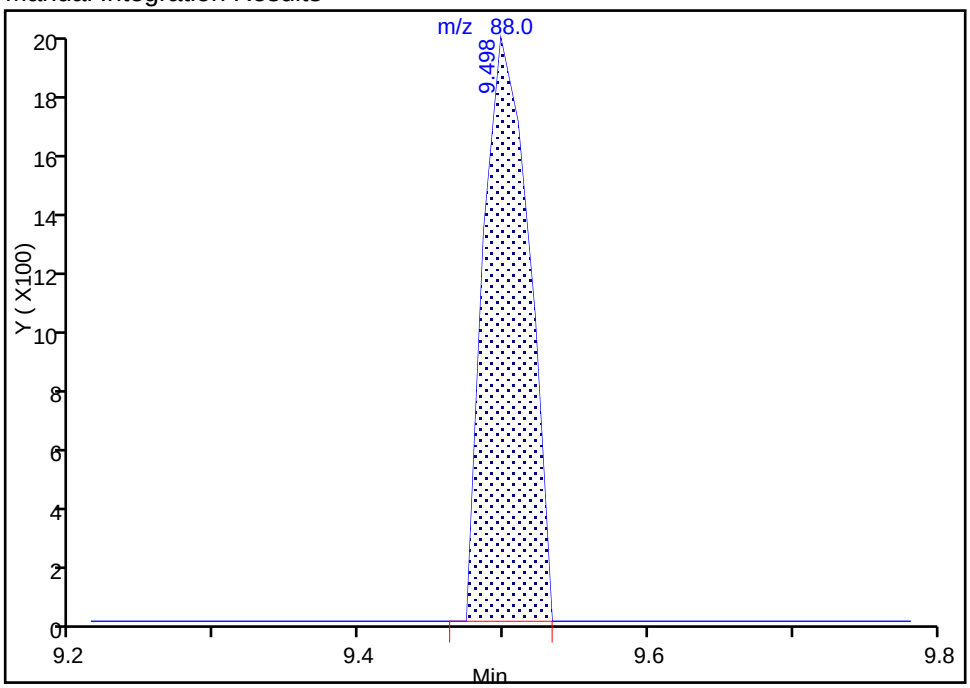
Not Detected
Expected RT: 9.50

Processing Integration Results



Manual Integration Results

RT: 9.50
Area: 4192
Amount: 98.187157
Amount Units: ug/l



Reviewer: hannj, 02-Jul-2017 14:06:46
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7921.D

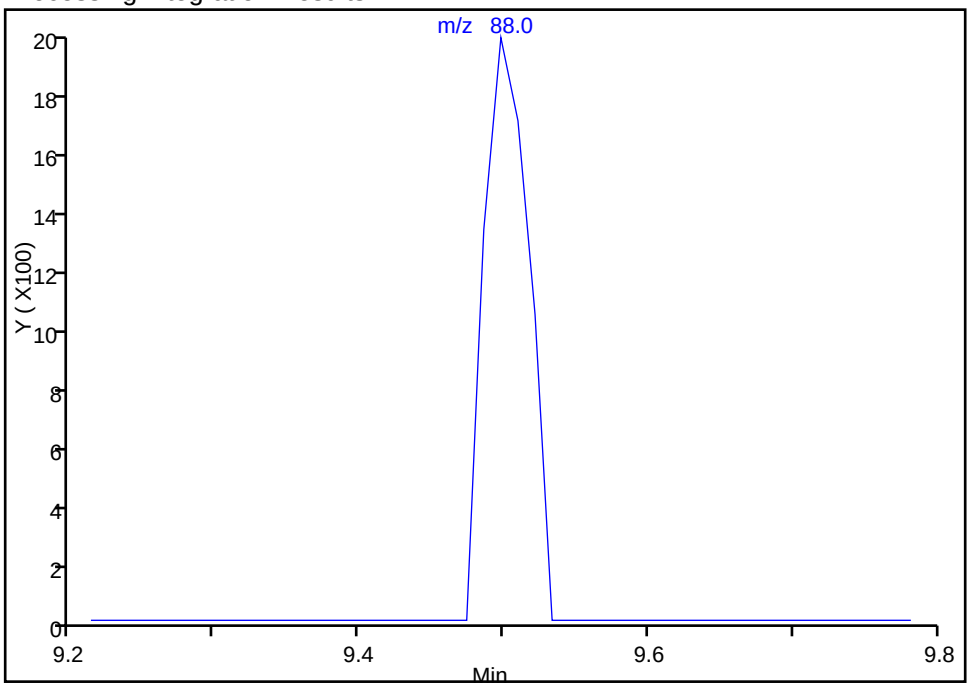
Injection Date:	30-Jun-2017 10:07:30	Instrument ID:	VMSX		
Lims ID:	IC				
Client ID:					
Operator ID:	ADB	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

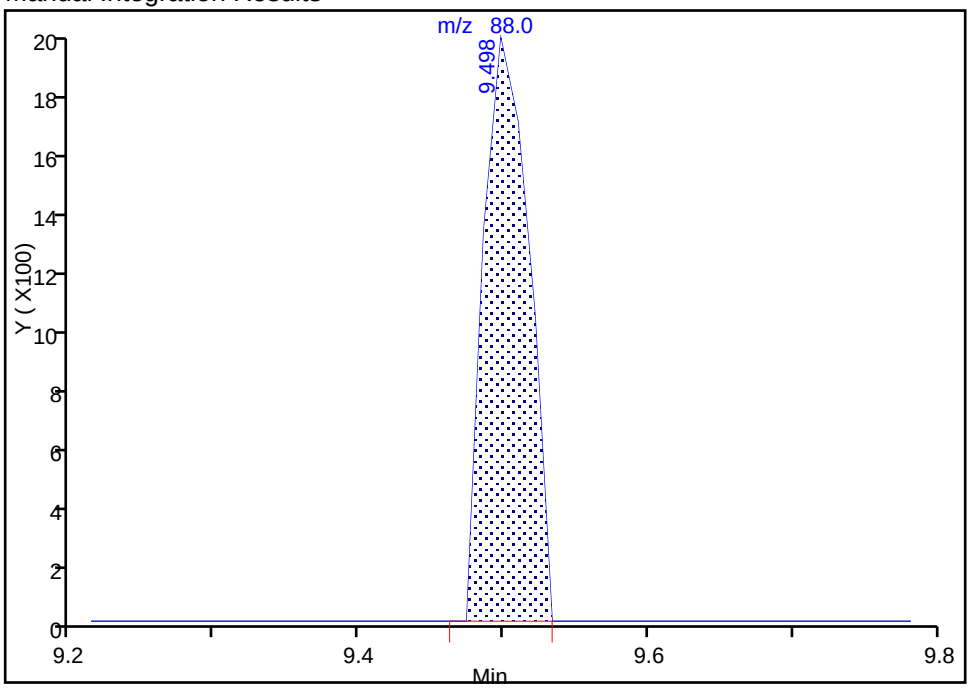
Not Detected
Expected RT: 9.50

Processing Integration Results



Manual Integration Results

RT: 9.50
Area: 4192
Amount: 98.187157
Amount Units: ug/l



Reviewer: hannj, 02-Jul-2017 14:06:54
Audit Action: Manually Integrated Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7922.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Jun-2017 10:32:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: ADB Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 03-Jul-2017 18:03:29 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: hannj Date: 03-Jul-2017 18:03:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	99	113467	10.0	10.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.055	2.055	0.000	98	53917	10.0	10.2	
3 Chloromethane	50	2.090	2.078	0.012	98	155806	10.0	10.3	
4 Vinyl chloride	62	2.197	2.185	0.012	98	114395	10.0	10.4	
121 Butadiene	39	2.220	2.209	0.011	90	95438	10.0	10.7	
5 Bromomethane	94	2.575	2.575	0.000	91	35352	10.0	10.4	
6 Chloroethane	64	2.753	2.741	0.012	98	36740	10.0	10.5	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	78731	10.0	9.87	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	96	86607	10.0	10.0	
8 Ethyl ether	74	3.356	3.345	0.012	92	46162	10.0	10.4	
11 Ethanol	45	3.605	3.605	0.000	27	20578	400.0	377.0	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	96	106282	10.0	10.1	
10 Carbon disulfide	76	3.605	3.605	0.000	99	380931	10.0	10.4	
12 1,1,2-Trichloro-1,2,2-trif	151	3.711	3.711	0.000	94	74657	10.0	10.5	
13 Iodomethane	142	3.794	3.794	0.000	96	128552	10.0	9.94	
14 Acrolein	56	4.137	4.137	0.000	97	32747	50.0	45.8	
15 3-Chloro-1-propene	39	4.350	4.350	0.000	94	109182	10.0	10.0	
16 Isopropyl alcohol	45	4.504	4.504	0.000	98	24221	100.0	99.9	
17 Methylene Chloride	84	4.528	4.528	0.000	93	97411	10.0	10.1	
18 Acetone	43	4.646	4.646	0.000	97	17130	10.0	10.6	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	98	110367	10.0	9.90	
20 Methyl acetate	74	4.871	4.871	0.000	95	15012	50.0	52.4	
21 Hexane	86	4.942	4.942	0.000	88	38787	10.0	10.9	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	94	155955	10.0	9.66	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	94	36393	100.0	91.8	
24 Acetonitrile	41	5.380	5.380	0.000	97	55365	100.0	101.5	
25 Isopropyl ether	45	5.640	5.640	0.000	94	277756	10.0	9.59	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	91	182397	10.0	10.0	
28 1,1-Dichloroethane	63	5.759	5.758	0.001	95	195272	10.0	10.1	
S 26 1,2-Dichloroethene, Total	96				0			19.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	99	164909	100.0	96.6	
30 Tert-butyl ethyl ether	59	6.185	6.184	0.001	97	200656	10.0	9.48	
31 Vinyl acetate	43	6.208	6.196	0.012	98	114864	10.0	9.85	
32 cis-1,2-Dichloroethene	96	6.551	6.551	0.000	80	106618	10.0	9.76	
33 2,2-Dichloropropane	77	6.705	6.693	0.012	92	102929	10.0	9.95	
34 Cyclohexane	84	6.800	6.800	0.000	89	191099	10.0	10.4	
35 Chlorobromomethane	128	6.824	6.823	0.001	96	35472	10.0	10.7	
36 Chloroform	83	6.954	6.954	0.000	93	160603	10.0	9.80	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	114962	10.0	9.62	
38 Tetrahydrofuran	71	7.167	7.166	0.001	95	8242	20.0	16.8	
39 Ethyl acetate	45	7.178	7.178	0.000	95	11277	20.0	19.6	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	145847	10.0	10.1	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.202	-0.012	93	69374	10.0	9.42	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	96	150056	10.0	9.84	
43 2-Butanone (MEK)	43	7.403	7.403	0.000	99	21003	10.0	10.1	
124 Isooctane	57	7.545	7.533	0.012	96	518277	10.0	10.4	
117 n-Heptane	43	7.699	7.699	0.000	72	211751	10.0	10.3	
44 Benzene	78	7.699	7.699	0.000	96	440323	10.0	10.2	
45 Propionitrile	54	7.770	7.770	0.000	94	60073	100.0	98.1	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	289729	100.0	101.3	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.888	7.888	0.000	88	69569	10.0	10.0	
48 Tert-amyl methyl ether	73	7.912	7.900	0.012	95	145653	10.0	9.68	
49 1,2-Dichloroethane	62	7.971	7.971	0.000	96	86933	10.0	9.88	
50 Isobutyl alcohol	42	8.101	8.101	0.000	93	23782	250.0	204.4	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	1902153	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.444	0.001	90	184253	10.0	10.2	
53 Trichloroethene	95	8.468	8.468	0.000	97	110675	10.0	9.90	
54 n-Butanol	56	8.989	8.989	0.000	85	24029	250.0	239.0	
55 Dibromomethane	93	9.001	9.001	0.000	93	35917	10.0	10.0	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	96	94840	10.0	9.90	
123 Ethyl acrylate	55	9.226	9.225	0.001	99	53864	10.0	8.86	
57 Dichlorobromomethane	83	9.226	9.225	0.001	99	100178	10.0	9.74	
58 Methyl methacrylate	69	9.474	9.474	0.000	94	62788	20.0	18.8	
59 1,4-Dioxane	88	9.510	9.498	0.012	1	8433	200.0	190.3	M
61 cis-1,3-Dichloropropene	75	10.030	10.018	0.012	95	116095	10.0	9.57	
60 2-Chloroethyl vinyl ether	63		10.030				ND	ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	354678	10.0	9.81	
63 Toluene	92	10.314	10.314	0.000	98	258143	10.0	9.97	
64 2-Nitropropane	43	10.622	10.610	0.012	97	15767	20.0	16.3	
65 Tetrachloroethene	164	10.764	10.764	0.000	94	75877	10.0	9.91	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	95	37776	10.0	8.85	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	87071	10.0	9.33	
68 1,1,2-Trichloroethane	83	11.012	11.012	0.000	89	47314	10.0	9.48	
69 Ethyl methacrylate	69	11.048	11.048	0.000	73	59221	10.0	9.59	
70 Chlorodibromomethane	129	11.202	11.202	0.000	89	53268	10.0	9.54	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	102051	10.0	9.69	
72 Ethylene Dibromide	107	11.450	11.438	0.012	97	47404	10.0	9.35	
S 73 1,3-Dichloropropene, Total	75				0			18.9	
118 n-Butyl acetate	43	11.639	11.639	0.000	97	63032	10.0	8.69	
74 2-Hexanone	43	11.722	11.722	0.000	95	26504	10.0	9.75	
* 76 Chlorobenzene-d5	117	11.994	11.983	0.011	88	1130079	50.0	50.0	
75 1-Chlorohexane	91	11.994	11.994	0.000	66	158578	10.0	9.36	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.006	12.006	0.000	97	236194	10.0	9.87	
78 Ethylbenzene	91	12.042	12.042	0.000	97	468799	10.0	9.62	
79 1,1,1,2-Tetrachloroethane	131	12.077	12.077	0.000	94	65151	10.0	9.62	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	96	164763	10.0	9.52	
82 o-Xylene	106	12.610	12.610	0.000	97	149876	10.0	9.48	
83 Styrene	104	12.669	12.669	0.000	95	236338	10.0	9.84	
84 Bromoform	173	12.681	12.681	0.000	95	22689	10.0	9.29	
85 Isopropylbenzene	105	12.917	12.917	0.000	96	413909	10.0	9.81	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	81	107241	10.0	9.16	
87 Bromobenzene	156	13.272	13.272	0.000	94	73474	10.0	9.77	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	494514	10.0	9.70	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	92	57019	10.0	10.1	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	285536	10.0	9.82	
91 1,3,5-Trimethylbenzene	105	13.485	13.485	0.000	94	306667	10.0	9.81	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	82	16092	10.0	10.4	
94 Cyclohexanone	55	13.545	13.533	0.012	74	11780	100.0	105.3	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.544	-0.011	82	13396	10.0	10.2	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	276507	10.0	9.53	
96 tert-Butylbenzene	119	13.781	13.781	0.000	93	268265	10.0	9.67	
97 1,2,4-Trimethylbenzene	105	13.840	13.840	0.000	97	306538	10.0	9.88	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	421317	10.0	9.62	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	97	317060	10.0	9.52	
100 1,3-Dichlorobenzene	146	14.124	14.124	0.000	97	145307	10.0	9.60	
* 101 1,4-Dichlorobenzene-d4	152	14.195	14.195	0.000	98	437448	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	94	137822	10.0	9.64	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	97	274948	10.0	9.80	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	74287	10.0	8.95	
120 Benzyl chloride	126	14.432	14.432	0.000	89	11747	10.0	8.60	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	120789	10.0	9.68	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	82	6504	10.0	8.97	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	46	14330	10.0	9.61	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	97	92306	10.0	9.52	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	39755	10.0	9.02	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	71442	10.0	9.61	
110 Naphthalene	128	16.112	16.112	0.000	97	129748	10.0	9.65	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	94	59810	10.0	9.77	
S 112 Xylenes, Total	106				0			19.0	
S 113 Trihalomethanes, Total	1				0			38.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

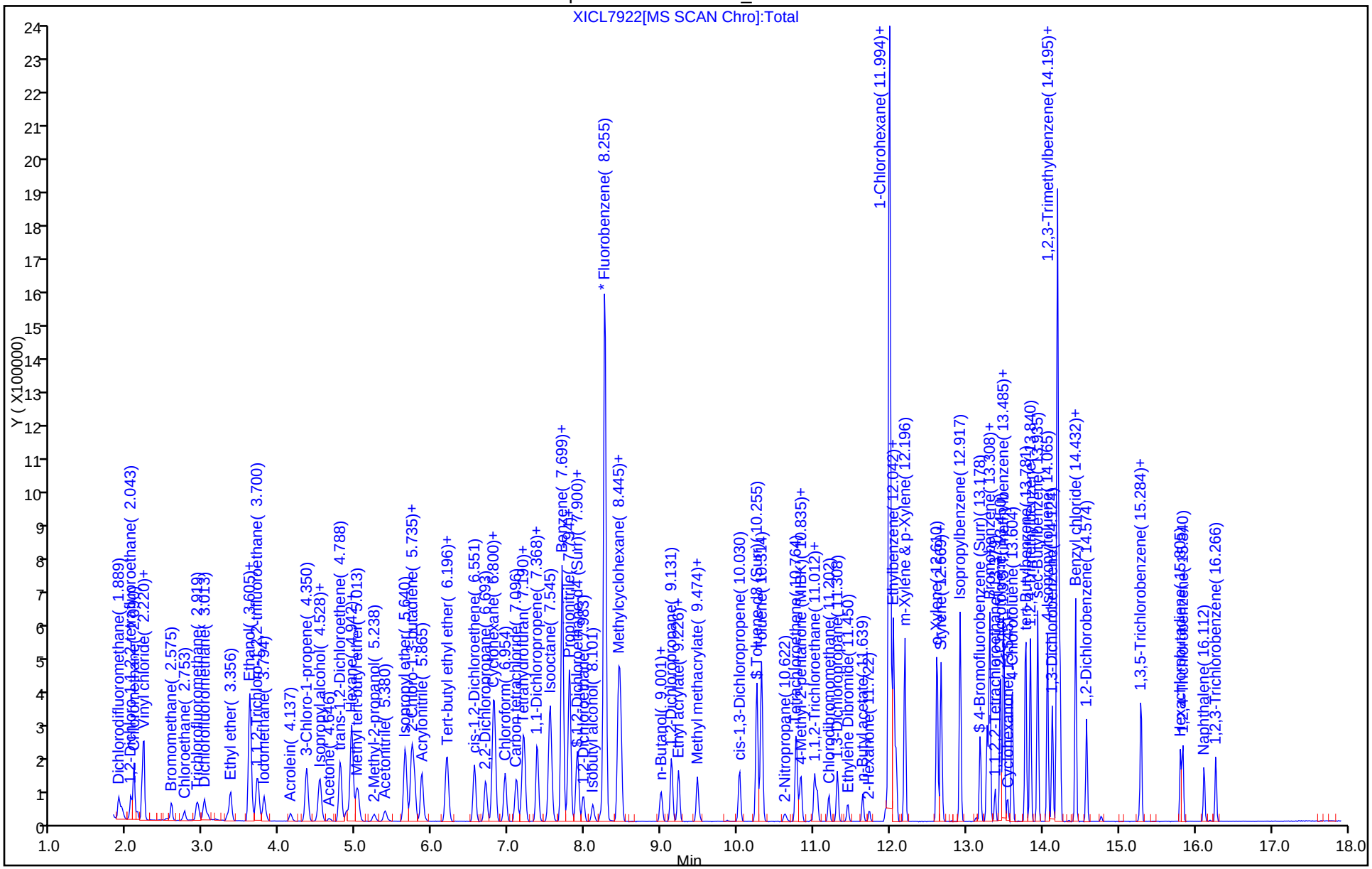
8260 Surr 25_00075	Amount Added: 2.00	Units: uL	
8260 NewWkMix_00225	Amount Added: 2.00	Units: uL	
I.S. Working_00149	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Jul-2017 18:03:30 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7922.D

Injection Date:	30-Jun-2017 10:32:30	Instrument ID:	VMSX	Operator ID:	ADB
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

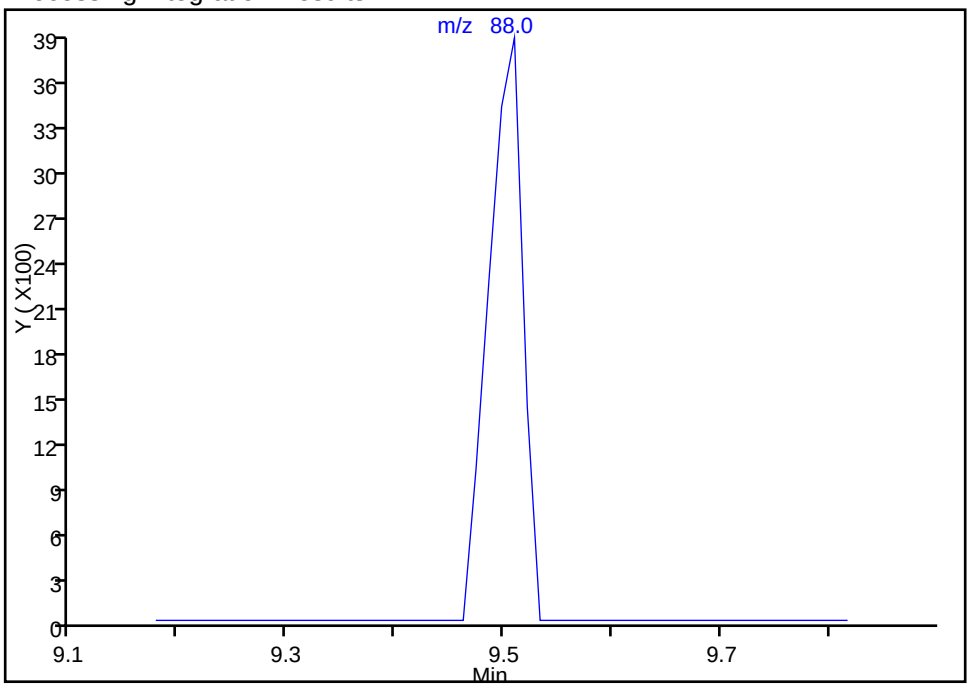
Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7922.D
Injection Date: 30-Jun-2017 10:32:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: ADB ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

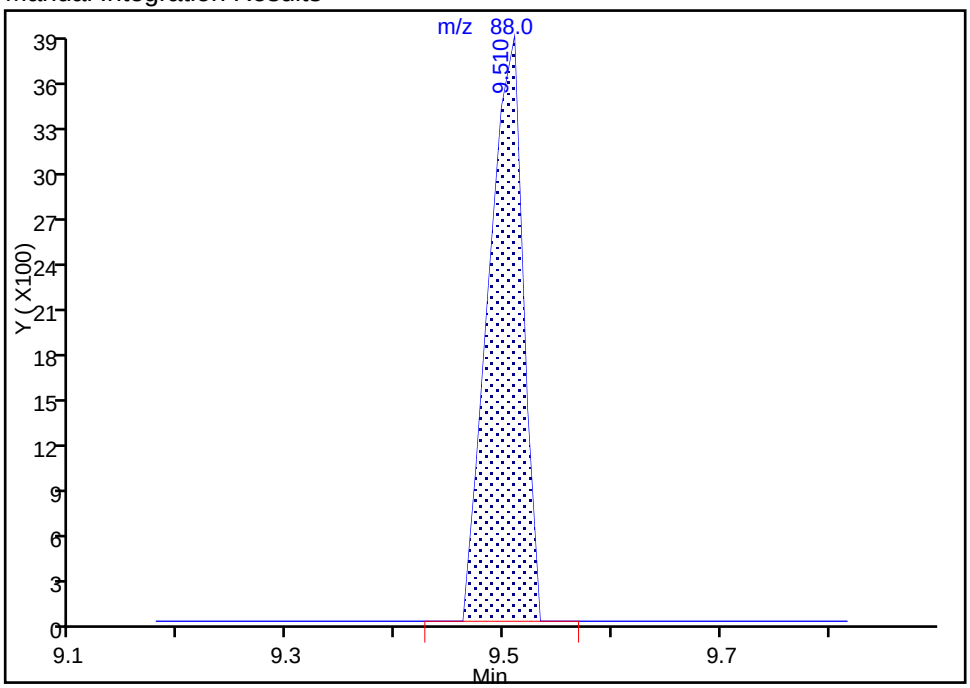
Not Detected
Expected RT: 9.50

Processing Integration Results



Manual Integration Results

RT: 9.51
Area: 8433
Amount: 190.2968
Amount Units: ug/l



Reviewer: hannj, 02-Jul-2017 14:12:49
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

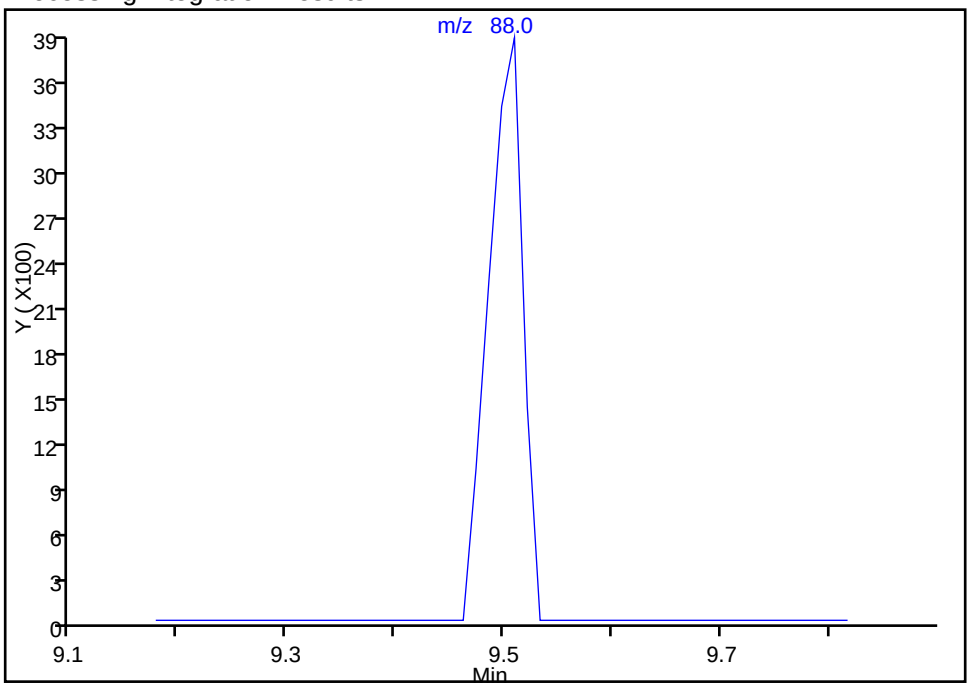
Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7922.D
Injection Date: 30-Jun-2017 10:32:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: ADB ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

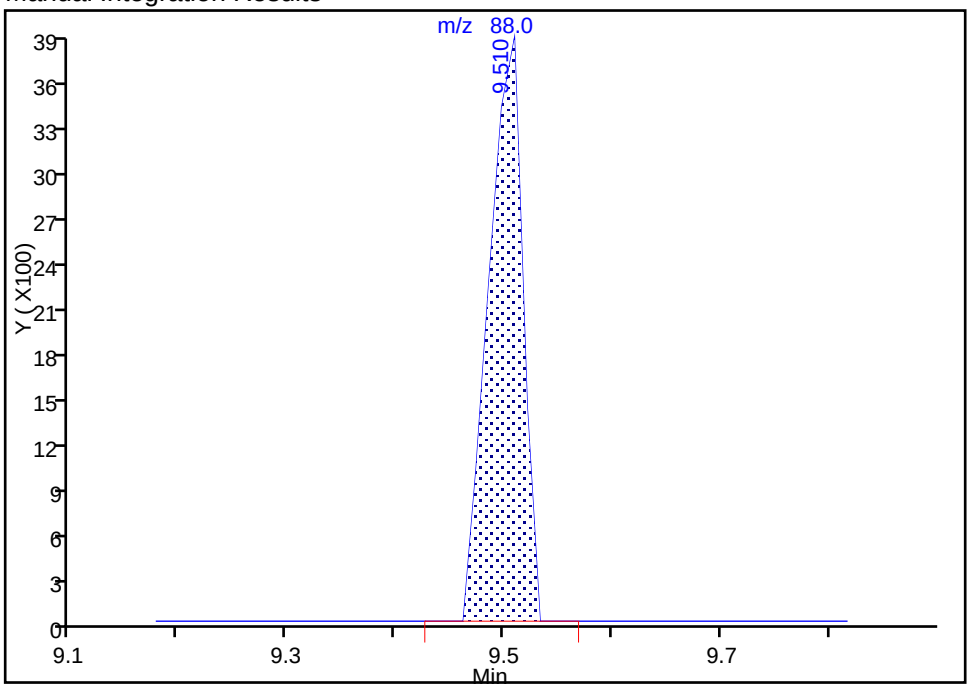
Not Detected
Expected RT: 9.50

Processing Integration Results



Manual Integration Results

RT: 9.51
Area: 8433
Amount: 190.2968
Amount Units: ug/l



Reviewer: hannj, 02-Jul-2017 14:12:57
Audit Action: Manually Integrated Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7923.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Jun-2017 10:57:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: ADB Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 03-Jul-2017 18:03:41 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: hannj Date: 03-Jul-2017 18:03:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	99	244542	20.0	21.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.055	2.055	0.000	98	119734	20.0	21.2	
3 Chloromethane	50	2.090	2.078	0.012	99	339440	20.0	21.1	
4 Vinyl chloride	62	2.197	2.185	0.012	98	241164	20.0	20.4	
121 Butadiene	39	2.221	2.209	0.012	89	197180	20.0	20.7	
5 Bromomethane	94	2.576	2.575	0.001	90	73176	20.0	20.2	
6 Chloroethane	64	2.753	2.741	0.012	98	77910	20.0	20.9	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	174527	20.0	20.5	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	97	187928	20.0	20.4	
8 Ethyl ether	74	3.357	3.345	0.013	91	97521	20.0	20.5	
11 Ethanol	45	3.605	3.605	0.000	29	44731	800.0	766.3	
10 Carbon disulfide	76	3.617	3.605	0.012	99	810599	20.0	20.7	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	97	229742	20.0	20.3	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.711	-0.011	95	156400	20.0	20.6	
13 Iodomethane	142	3.794	3.794	0.000	96	270140	20.0	19.5	
14 Acrolein	56	4.138	4.137	0.001	100	76725	100.0	100.4	
15 3-Chloro-1-propene	39	4.351	4.350	0.000	94	237167	20.0	20.3	
16 Isopropyl alcohol	45	4.493	4.504	-0.012	97	53917	200.0	202.2	
17 Methylene Chloride	84	4.528	4.528	0.000	94	206650	20.0	20.0	
18 Acetone	43	4.658	4.646	0.012	96	31927	20.0	19.8	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	98	242967	20.0	20.4	
20 Methyl acetate	74	4.883	4.871	0.012	95	32933	100.0	107.4	
21 Hexane	86	4.942	4.942	0.000	87	84128	20.0	22.1	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	92	342066	20.0	19.8	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	96	79416	200.0	179.3	
24 Acetonitrile	41	5.380	5.380	0.000	100	114693	200.0	196.6	
25 Isopropyl ether	45	5.640	5.640	0.000	95	621073	20.0	20.0	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	91	402397	20.0	20.6	
28 1,1-Dichloroethane	63	5.759	5.758	0.001	96	402058	20.0	19.5	
S 26 1,2-Dichloroethene, Total	96				0			40.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	100	359146	200.0	196.8	
30 Tert-butyl ethyl ether	59	6.185	6.184	0.001	98	455645	20.0	20.1	
31 Vinyl acetate	43	6.196	6.196	0.000	98	252252	20.0	20.2	
32 cis-1,2-Dichloroethene	96	6.551	6.551	0.000	80	235405	20.0	20.1	
33 2,2-Dichloropropane	77	6.693	6.693	0.000	93	217644	20.0	19.7	
34 Cyclohexane	84	6.800	6.800	0.000	90	410417	20.0	20.9	
35 Chlorobromomethane	128	6.824	6.823	0.001	96	75347	20.0	21.3	
36 Chloroform	83	6.954	6.954	0.000	93	346468	20.0	19.8	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	251755	20.0	19.7	
38 Tetrahydrofuran	71	7.167	7.166	0.001	85	20851	40.0	39.8	
39 Ethyl acetate	45	7.179	7.178	0.001	97	25740	40.0	38.9	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	91	153808	20.0	19.5	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	305946	20.0	19.9	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	98	330493	20.0	20.3	
43 2-Butanone (MEK)	43	7.392	7.403	-0.011	99	42121	20.0	19.0	
124 Isooctane	57	7.545	7.533	0.012	95	1093743	20.0	20.5	
44 Benzene	78	7.699	7.699	0.000	95	918733	20.0	19.8	
117 n-Heptane	43	7.699	7.699	0.000	73	457633	20.0	20.7	
45 Propionitrile	54	7.770	7.770	0.000	95	130992	200.0	200.0	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	618231	200.0	202.2	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.888	0.001	88	144301	20.0	19.4	
48 Tert-amyl methyl ether	73	7.900	7.900	0.000	96	322596	20.0	20.0	
49 1,2-Dichloroethane	62	7.971	7.971	0.000	97	185395	20.0	19.7	
50 Isobutyl alcohol	42	8.102	8.101	0.001	93	59886	500.0	454.8	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	2034213	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.444	0.001	90	399492	20.0	20.7	
53 Trichloroethene	95	8.468	8.468	0.000	98	229755	20.0	19.2	
54 n-Butanol	56	8.989	8.989	0.000	92	57138	500.0	439.7	
55 Dibromomethane	93	9.001	9.001	0.000	94	79436	20.0	20.7	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	97	202971	20.0	19.8	
123 Ethyl acrylate	55	9.226	9.225	0.001	98	124392	20.0	19.1	
57 Dichlorobromomethane	83	9.226	9.225	0.001	98	218838	20.0	19.9	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	148864	40.0	41.7	
59 1,4-Dioxane	88	9.498	9.498	0.000	1	19168	400.0	404.5	M
61 cis-1,3-Dichloropropene	75	10.030	10.018	0.012	96	265617	20.0	20.5	
60 2-Chloroethyl vinyl ether	63		10.030				ND	ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	768197	20.0	19.4	
63 Toluene	92	10.314	10.314	0.000	99	563822	20.0	19.8	
64 2-Nitropropane	43	10.622	10.610	0.012	97	40412	40.0	36.9	
65 Tetrachloroethene	164	10.764	10.764	0.000	94	162201	20.0	19.3	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	94	87777	20.0	18.7	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	202236	20.0	19.7	
68 1,1,2-Trichloroethane	83	11.012	11.012	0.000	89	103261	20.0	18.8	
69 Ethyl methacrylate	69	11.048	11.048	0.000	80	144442	20.0	18.1	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	114876	20.0	18.7	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	222559	20.0	19.3	
72 Ethylene Dibromide	107	11.450	11.438	0.012	98	102449	20.0	17.8	
S 73 1,3-Dichloropropene, Total	75				0			40.2	
118 n-Butyl acetate	43	11.640	11.639	0.001	99	151939	20.0	18.7	
74 2-Hexanone	43	11.722	11.722	0.000	96	64415	20.0	18.3	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	1240452	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.994	0.001	48	363252	20.0	19.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.006	12.006	0.000	97	508598	20.0	19.4	
78 Ethylbenzene	91	12.042	12.042	0.000	96	1055259	20.0	19.7	
79 1,1,1,2-Tetrachloroethane	131	12.077	12.077	0.000	95	145752	20.0	19.6	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	96	378417	20.0	19.9	
82 o-Xylene	106	12.610	12.610	0.000	98	351540	20.0	20.3	
83 Styrene	104	12.669	12.669	0.000	94	527333	20.0	20.0	
84 Bromoform	173	12.681	12.681	0.000	95	51741	20.0	19.8	
85 Isopropylbenzene	105	12.918	12.917	0.001	96	959641	20.0	21.3	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	81	245303	20.0	19.6	
87 Bromobenzene	156	13.273	13.272	0.001	93	166258	20.0	20.7	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	1156827	20.0	21.2	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	116472	20.0	19.3	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	641110	20.0	20.6	
91 1,3,5-Trimethylbenzene	105	13.486	13.485	0.001	95	707534	20.0	21.2	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	80	32148	20.0	19.5	
94 Cyclohexanone	55	13.533	13.533	0.000	70	24464	200.0	177.3	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.544	-0.011	83	31584	20.0	19.1	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	626335	20.0	20.2	
96 tert-Butylbenzene	119	13.781	13.781	0.000	93	627106	20.0	21.1	
97 1,2,4-Trimethylbenzene	105	13.841	13.840	0.000	97	688289	20.0	20.7	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	997689	20.0	21.3	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	97	763016	20.0	21.4	
100 1,3-Dichlorobenzene	146	14.124	14.124	0.000	97	321364	20.0	19.9	
* 101 1,4-Dichlorobenzene-d4	152	14.195	14.195	0.000	98	467790	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	96	301945	20.0	19.8	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	610475	20.0	20.3	
120 Benzyl chloride	126	14.432	14.432	0.000	89	29594	20.0	17.8	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	192340	20.0	21.7	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	95	266731	20.0	20.0	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	85	14441	20.0	18.6	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	49	36388	20.0	20.2	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	96	212338	20.0	20.5	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	95	96057	20.0	20.4	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	95	162853	20.0	20.5	
110 Naphthalene	128	16.112	16.112	0.000	97	296410	20.0	20.6	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	94	133606	20.0	20.4	
S 112 Xylenes, Total	106				0			40.2	
S 113 Trihalomethanes, Total	1				0			78.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

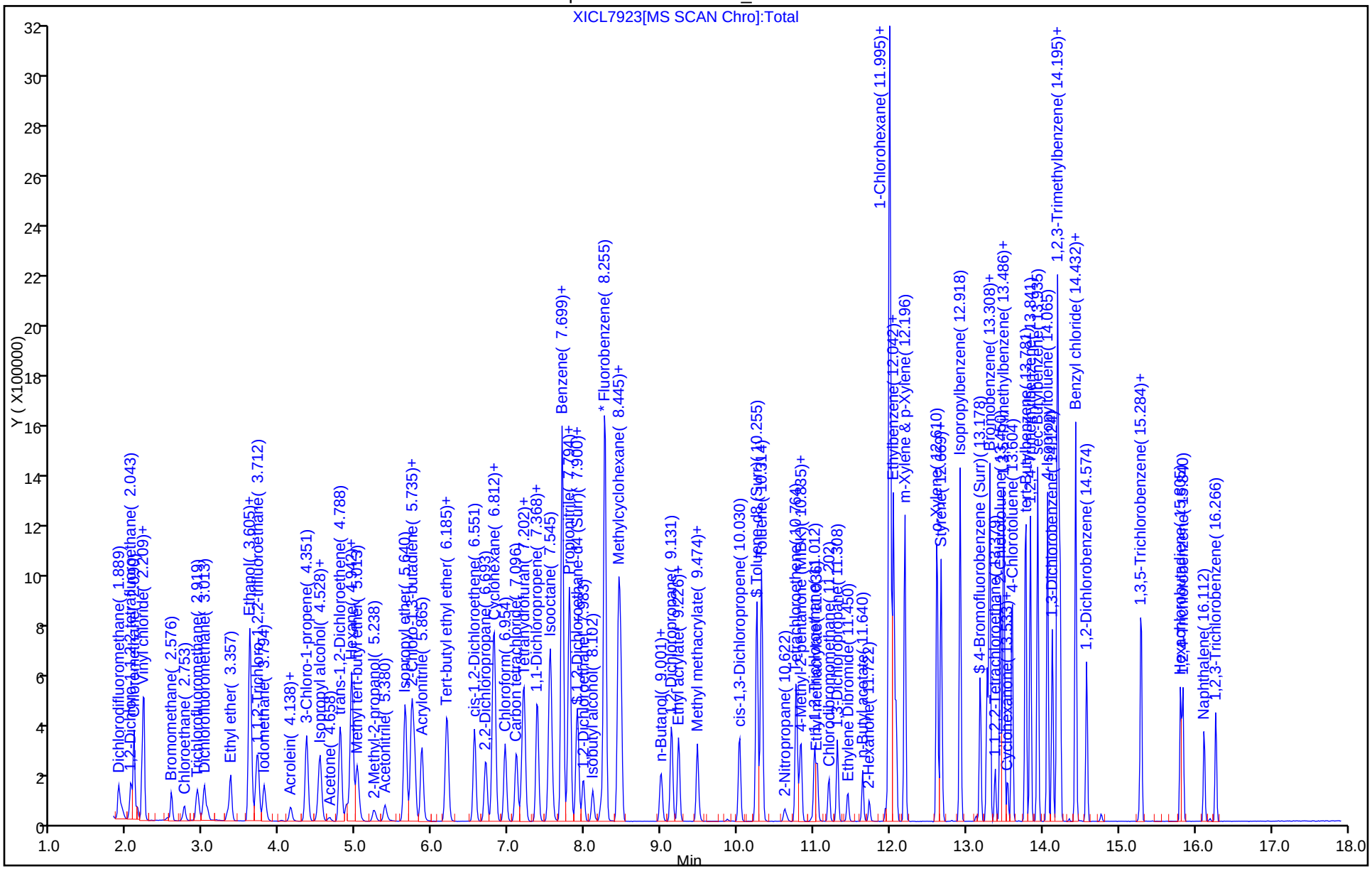
8260 Surr 25_00075	Amount Added: 4.00	Units: uL	
8260 NewWkMix_00225	Amount Added: 4.00	Units: uL	
I.S. Working_00149	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Jul-2017 18:03:43 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7923.D

Injection Date:	30-Jun-2017 10:57:30	Instrument ID:	VMSX	Operator ID:	ADB
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

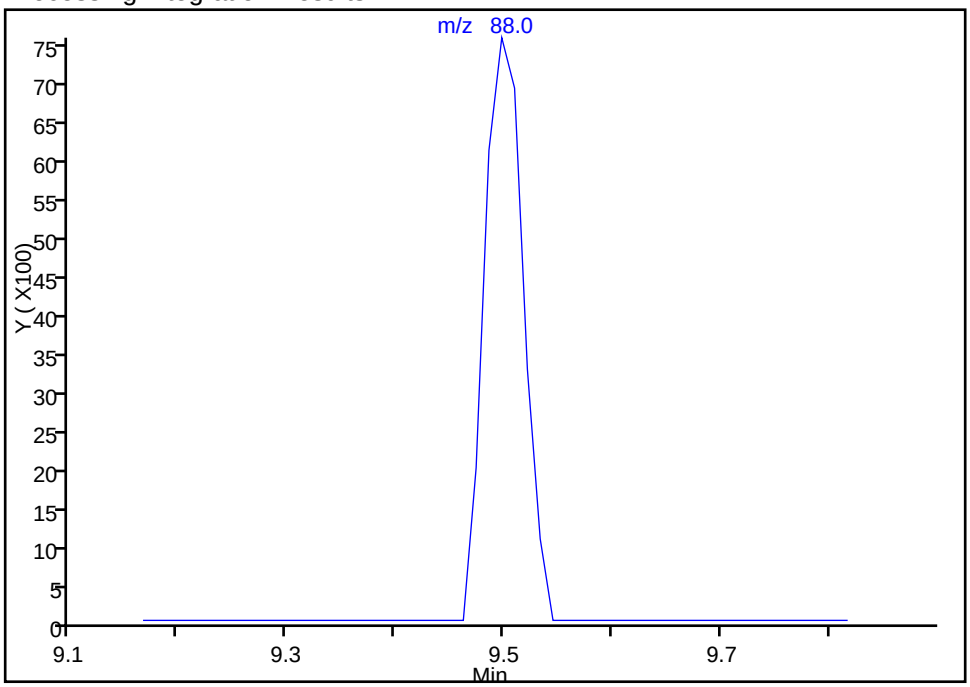
Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7923.D
Injection Date: 30-Jun-2017 10:57:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: ADB ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

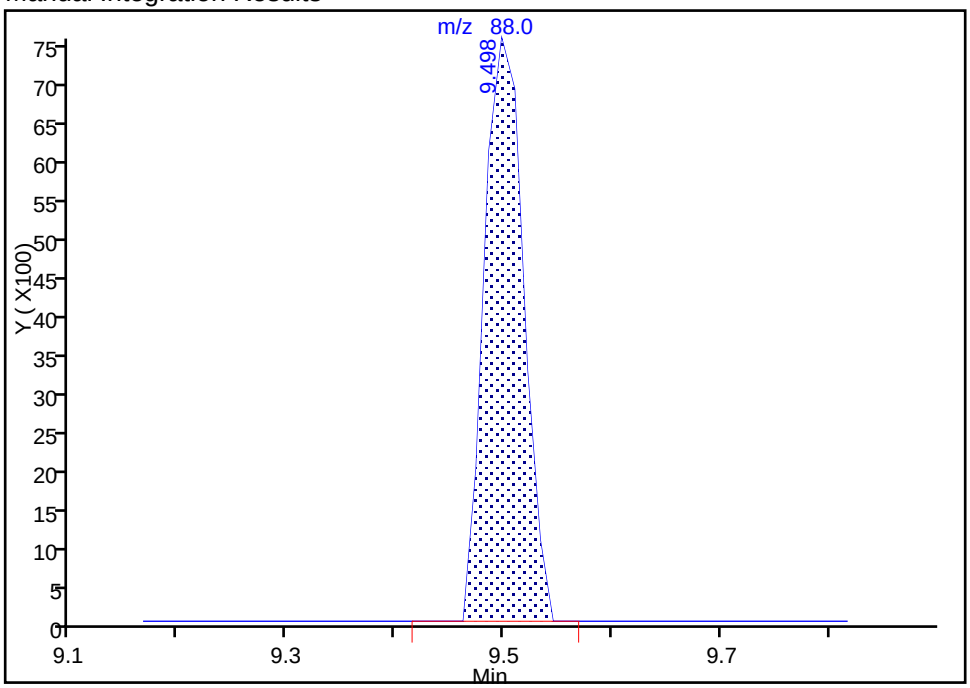
Not Detected
Expected RT: 9.50

Processing Integration Results



Manual Integration Results

RT: 9.50
Area: 19168
Amount: 404.4597
Amount Units: ug/l



Reviewer: hannj, 02-Jul-2017 14:13:40
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

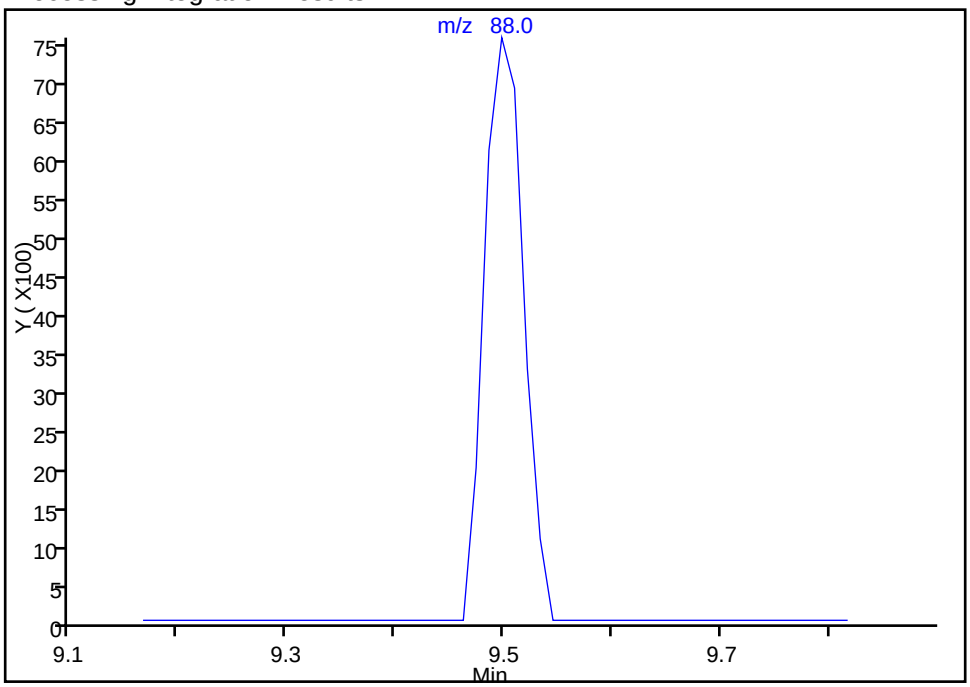
Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7923.D
Injection Date: 30-Jun-2017 10:57:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: ADB ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

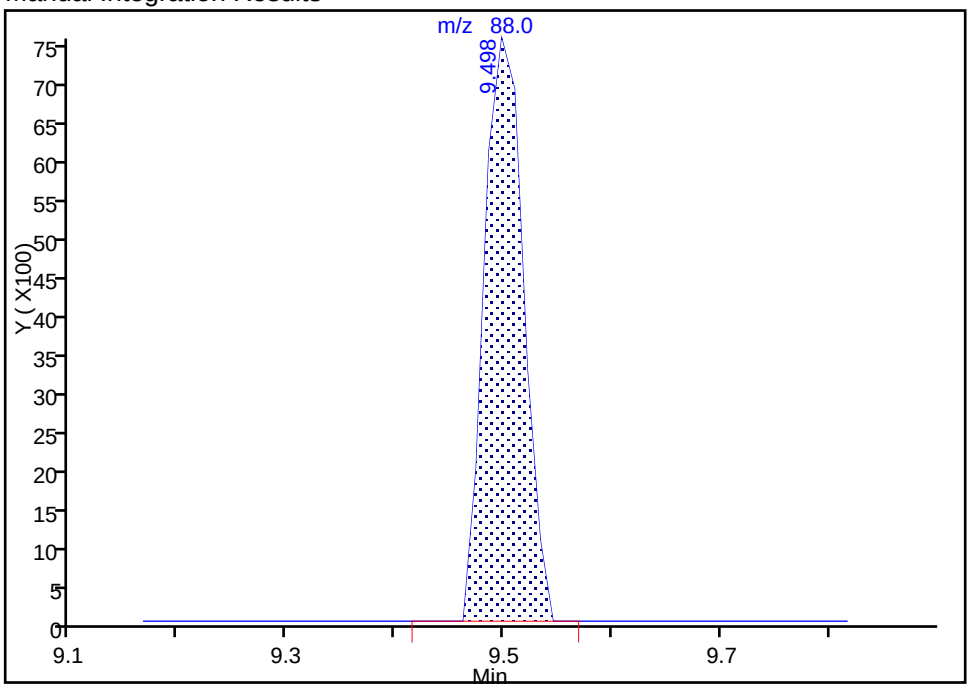
Not Detected
Expected RT: 9.50

Processing Integration Results



Manual Integration Results

RT: 9.50
Area: 19168
Amount: 404.4597
Amount Units: ug/l



Reviewer: hannj, 02-Jul-2017 14:13:48
Audit Action: Manually Integrated Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7924.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 30-Jun-2017 11:22:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: ICIS
Operator ID: ADB Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 03-Jul-2017 17:35:52 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: hannj Date: 03-Jul-2017 17:29:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	99	607556	50.0	53.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.055	2.055	0.000	98	296703	50.0	53.4	
3 Chloromethane	50	2.090	2.090	0.000	99	808434	50.0	50.9	
4 Vinyl chloride	62	2.197	2.197	0.000	98	568258	50.0	48.8	
121 Butadiene	39	2.220	2.220	0.000	89	464223	50.0	49.4	
5 Bromomethane	94	2.575	2.575	0.000	90	180101	50.0	50.3	
6 Chloroethane	64	2.741	2.741	0.000	99	171976	50.0	46.8	
7 Trichlorofluoromethane	101	2.918	2.918	0.000	99	422801	50.0	50.3	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	97	462552	50.0	50.9	
8 Ethyl ether	74	3.356	3.356	0.000	92	239643	50.0	51.1	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1950558	50.0	50.4	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	96	559893	50.0	50.3	
11 Ethanol	45	3.605	3.605	0.000	26	113628	2000.0	1974.7	
12 1,1,2-Trichloro-1,2,2-trif	151	3.711	3.711	0.000	96	371782	50.0	49.7	
13 Iodomethane	142	3.794	3.794	0.000	96	673859	50.0	49.4	
14 Acrolein	56	4.137	4.137	0.000	100	201874	250.0	267.9	
15 3-Chloro-1-propene	39	4.350	4.350	0.000	94	594171	50.0	51.6	
16 Isopropyl alcohol	45	4.492	4.492	0.000	98	136174	500.0	498.1	
17 Methylene Chloride	84	4.528	4.528	0.000	93	487556	50.0	47.9	
18 Acetone	43	4.646	4.646	0.000	99	72818	50.0	48.5	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	98	587720	50.0	50.0	
20 Methyl acetate	74	4.871	4.871	0.000	98	78805	250.0	260.8	
21 Hexane	86	4.942	4.942	0.000	87	203601	50.0	54.4	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	95	851744	50.0	50.1	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	97	203247	500.0	453.1	
24 Acetonitrile	41	5.380	5.380	0.000	100	273430	500.0	475.4	
25 Isopropyl ether	45	5.640	5.640	0.000	95	1560883	50.0	51.1	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	91	986682	50.0	51.3	
28 1,1-Dichloroethane	63	5.758	5.758	0.000	97	983701	50.0	48.5	
29 Acrylonitrile	53	5.865	5.865	0.000	99	873045	500.0	485.3	

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	6.184	6.184	0.000	98	1161055	50.0	52.0	
31 Vinyl acetate	43	6.196	6.196	0.000	98	615214	50.0	50.0	
32 cis-1,2-Dichloroethene	96	6.551	6.551	0.000	80	573824	50.0	49.8	
33 2,2-Dichloropropane	77	6.693	6.693	0.000	92	531018	50.0	48.7	
34 Cyclohexane	84	6.800	6.800	0.000	89	1000117	50.0	51.6	
35 Chlorobromomethane	128	6.823	6.823	0.000	96	177159	50.0	50.8	
36 Chloroform	83	6.953	6.953	0.000	94	831897	50.0	48.1	
37 Carbon tetrachloride	117	7.095	7.095	0.000	97	632126	50.0	50.2	
38 Tetrahydrofuran	71	7.166	7.166	0.000	92	55632	100.0	107.8	
39 Ethyl acetate	45	7.178	7.178	0.000	99	66749	100.0	98.1	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	91	384138	50.0	49.5	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	755229	50.0	49.7	
42 1,1-Dichloropropene	75	7.379	7.379	0.000	97	812357	50.0	50.5	
43 2-Butanone (MEK)	43	7.403	7.403	0.000	100	108699	50.0	49.8	
124 Isooctane	57	7.545	7.545	0.000	95	2672158	50.0	50.7	
44 Benzene	78	7.699	7.699	0.000	96	2167302	50.0	47.5	
117 n-Heptane	43	7.699	7.699	0.000	74	1118440	50.0	51.4	
45 Propionitrile	54	7.770	7.770	0.000	98	313522	500.0	485.6	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	1477573	500.0	490.3	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.888	7.888	0.000	88	369802	50.0	50.5	
48 Tert-amyl methyl ether	73	7.900	7.900	0.000	96	806204	50.0	50.8	
49 1,2-Dichloroethane	62	7.983	7.983	0.000	96	452002	50.0	48.7	
50 Isobutyl alcohol	42	8.101	8.101	0.000	95	156240	1250.0	1171.8	
* 51 Fluorobenzene	96	8.267	8.267	0.000	99	2005179	50.0	50.0	
52 Methylcyclohexane	55	8.444	8.444	0.000	90	971881	50.0	51.0	
53 Trichloroethene	95	8.468	8.468	0.000	98	554400	50.0	47.0	
54 n-Butanol	56	8.989	8.989	0.000	87	164158	1250.0	1138.3	
55 Dibromomethane	93	9.001	9.001	0.000	94	193597	50.0	51.1	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	98	508645	50.0	50.4	
57 Dichlorobromomethane	83	9.225	9.225	0.000	99	554871	50.0	51.2	
123 Ethyl acrylate	55	9.225	9.225	0.000	98	332986	50.0	51.9	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	382600	100.0	108.8	
59 1,4-Dioxane	88	9.498	9.498	0.000	82	45604	1000.0	976.2	
61 cis-1,3-Dichloropropene	75	10.030	10.030	0.000	96	686821	50.0	53.7	
60 2-Chloroethyl vinyl ether	63		10.030				ND	ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1915481	50.0	50.6	
63 Toluene	92	10.314	10.314	0.000	99	1341110	50.0	49.4	
64 2-Nitropropane	43	10.622	10.622	0.000	98	110451	100.0	96.7	
65 Tetrachloroethene	164	10.776	10.776	0.000	95	398055	50.0	49.6	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	95	228724	50.0	51.1	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	512719	50.0	52.4	
68 1,1,2-Trichloroethane	83	11.012	11.012	0.000	88	249174	50.0	47.6	
69 Ethyl methacrylate	69	11.048	11.048	0.000	84	385732	50.0	45.7	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	294159	50.0	50.3	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	541009	50.0	49.0	
72 Ethylene Dibromide	107	11.450	11.450	0.000	98	262097	50.0	46.9	
118 n-Butyl acetate	43	11.639	11.639	0.000	99	404321	50.0	49.3	
74 2-Hexanone	43	11.722	11.722	0.000	95	162037	50.0	43.9	
* 76 Chlorobenzene-d5	117	11.994	11.994	0.000	88	1183986	50.0	50.0	
77 Chlorobenzene	112	12.006	12.006	0.000	97	1204302	50.0	48.0	
75 1-Chlorohexane	91	12.006	12.006	0.000	72	857609	50.0	48.3	
78 Ethylbenzene	91	12.042	12.042	0.000	96	2475053	50.0	48.5	

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	12.077	12.077	0.000	96	353362	50.0	49.8	
80 m-Xylene & p-Xylene	106	12.195	12.195	0.000	97	913163	50.0	50.4	
82 o-Xylene	106	12.610	12.610	0.000	98	845158	50.0	51.0	
83 Styrene	104	12.669	12.669	0.000	95	1277942	50.0	50.8	
84 Bromoform	173	12.681	12.681	0.000	96	127883	50.0	50.8	
85 Isopropylbenzene	105	12.917	12.917	0.000	96	2284427	50.0	52.5	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	80	617717	50.0	51.2	
87 Bromobenzene	156	13.272	13.272	0.000	94	392422	50.0	50.6	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2692047	50.0	51.2	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	277560	50.0	47.8	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	1532879	50.0	51.2	
91 1,3,5-Trimethylbenzene	105	13.485	13.485	0.000	95	1667754	50.0	51.8	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	80	77909	50.0	49.0	
94 Cyclohexanone	55	13.533	13.533	0.000	70	63202	500.0	427.0	
93 trans-1,4-Dichloro-2-buten	53	13.544	13.544	0.000	86	81921	50.0	46.9	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	1523186	50.0	50.9	
96 tert-Butylbenzene	119	13.781	13.781	0.000	93	1504498	50.0	52.6	
97 1,2,4-Trimethylbenzene	105	13.840	13.840	0.000	97	1631638	50.0	51.0	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	2311562	50.0	51.2	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	97	1817541	50.0	53.0	
100 1,3-Dichlorobenzene	146	14.124	14.124	0.000	97	751985	50.0	48.2	
* 101 1,4-Dichlorobenzene-d4	152	14.195	14.195	0.000	97	450773	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	92	710858	50.0	48.3	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1436275	50.0	49.7	
120 Benzyl chloride	126	14.432	14.432	0.000	89	79139	50.0	46.3	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	463761	50.0	54.2	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	631339	50.0	49.1	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	85	37827	50.0	50.6	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	53	115386	50.0	50.0	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	97	506631	50.0	50.7	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	226310	50.0	49.8	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	397171	50.0	51.9	
110 Naphthalene	128	16.112	16.112	0.000	97	739030	50.0	53.4	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	319220	50.0	50.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

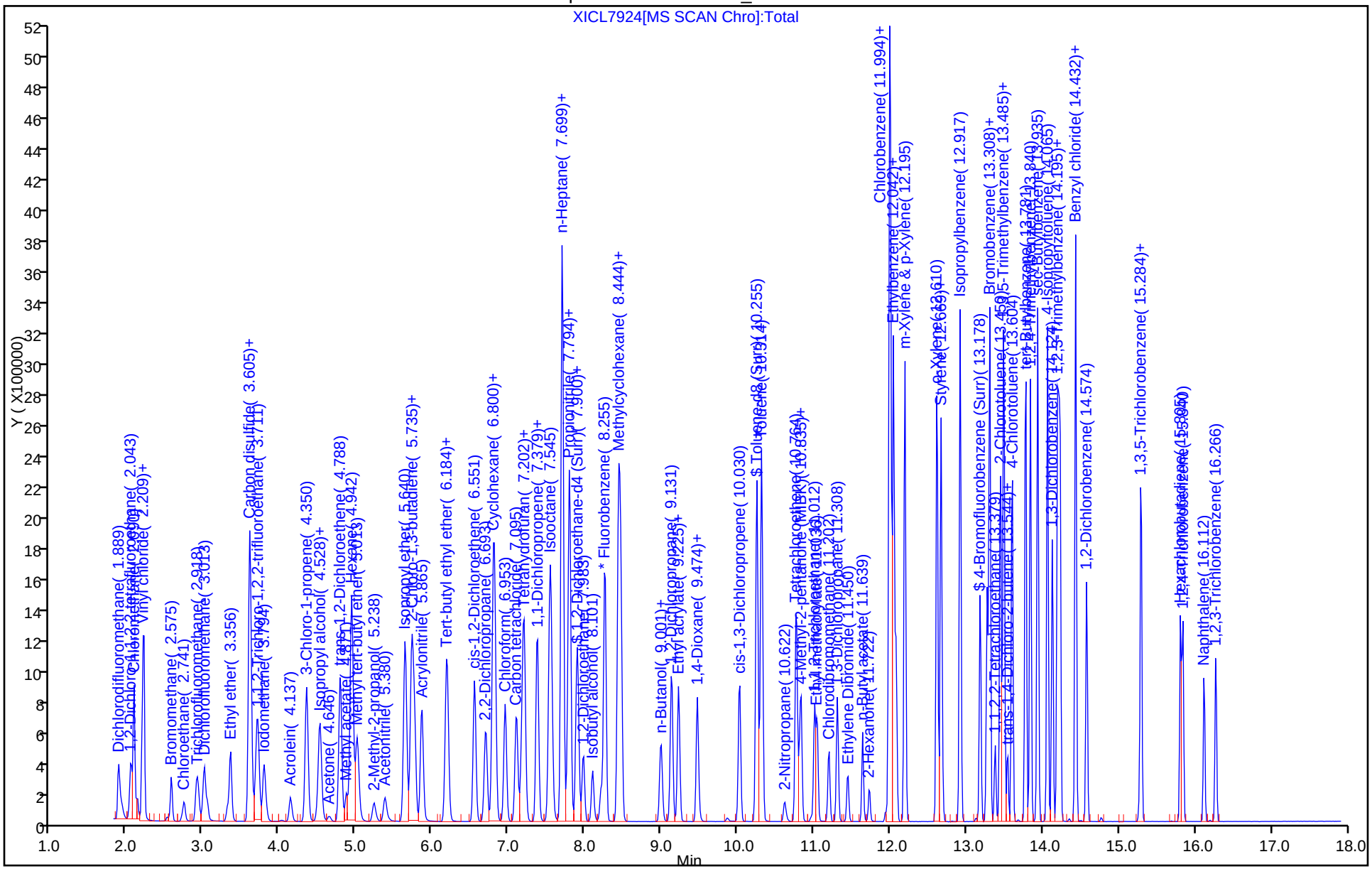
8260 Surr 25_00075	Amount Added: 10.00	Units: uL	
8260 NewWkMix_00225	Amount Added: 10.00	Units: uL	
I.S. Working_00149	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Jul-2017 17:35:53 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7924.D

Injection Date:	30-Jun-2017 11:22:30	Instrument ID:	VMSX	Operator ID:	ADB
Lims ID:	ICIS			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7925.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 30-Jun-2017 11:47:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: ADB Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 03-Jul-2017 17:36:45 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: hannj Date: 02-Jul-2017 14:14:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	100	941860	100.0	84.8	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.055	-0.012	98	484298	100.0	89.7	
3 Chloromethane	50	2.090	2.078	0.012	99	1327274	100.0	86.0	
4 Vinyl chloride	62	2.197	2.185	0.012	98	976515	100.0	86.4	
121 Butadiene	39	2.209	2.209	0.000	90	757353	100.0	83.0	
5 Bromomethane	94	2.576	2.575	0.001	91	338327	100.0	97.4	
6 Chloroethane	64	2.741	2.741	0.000	99	302589	100.0	84.7	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	795928	100.0	97.5	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	97	903869	100.0	102.4	
8 Ethyl ether	74	3.356	3.345	0.012	92	460992	100.0	101.3	
11 Ethanol	45	3.605	3.605	0.000	26	230754	4000.0	4129.3	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	95	991709	100.0	91.7	
10 Carbon disulfide	76	3.605	3.605	0.000	99	3169813	100.0	84.4	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.711	-0.011	95	684613	100.0	94.2	
13 Iodomethane	142	3.794	3.794	0.000	97	1239550	100.0	93.6	
14 Acrolein	56	4.137	4.137	0.000	99	384699	500.0	525.6	
15 3-Chloro-1-propene	39	4.350	4.350	0.000	94	1101103	100.0	98.4	
16 Isopropyl alcohol	45	4.492	4.504	-0.012	99	279808	1000.0	1000.7	
17 Methylene Chloride	84	4.528	4.528	0.000	94	908905	100.0	91.9	
18 Acetone	43	4.646	4.646	0.000	99	142704	100.0	99.8	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	98	1087602	100.0	95.3	
20 Methyl acetate	74	4.871	4.871	0.000	98	150438	500.0	512.6	
21 Hexane	86	4.942	4.942	0.000	86	342143	100.0	94.1	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	91	1676330	100.0	101.5	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	97	423693	1000.0	963.7	
24 Acetonitrile	41	5.380	5.380	0.000	99	544825	1000.0	975.3	
25 Isopropyl ether	45	5.640	5.640	0.000	95	3068664	100.0	103.5	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	91	1855518	100.0	99.3	
28 1,1-Dichloroethane	63	5.759	5.758	0.001	97	1817556	100.0	92.3	
S 26 1,2-Dichloroethene, Total	96				0			194.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	100	1705594	1000.0	976.2	
30 Tert-butyl ethyl ether	59	6.185	6.184	0.001	98	2317680	100.0	106.9	
31 Vinyl acetate	43	6.196	6.196	0.000	97	1211438	100.0	101.5	
32 cis-1,2-Dichloroethene	96	6.551	6.551	0.000	80	1112312	100.0	99.4	
33 2,2-Dichloropropane	77	6.693	6.693	0.000	91	995223	100.0	94.0	
34 Cyclohexane	84	6.800	6.800	0.000	89	1765023	100.0	93.8	
35 Chlorobromomethane	128	6.824	6.823	0.001	95	332691	100.0	98.2	
36 Chloroform	83	6.954	6.954	0.000	94	1587751	100.0	94.6	
37 Carbon tetrachloride	117	7.096	7.096	0.000	98	1213490	100.0	99.2	
38 Tetrahydrofuran	71	7.155	7.166	-0.011	92	108944	200.0	217.3	
39 Ethyl acetate	45	7.179	7.178	0.000	99	130876	200.0	195.4	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	1428861	100.0	96.9	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	92	705649	100.0	93.6	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	97	1543386	100.0	98.8	
43 2-Butanone (MEK)	43	7.391	7.403	-0.012	100	216708	100.0	102.2	
124 Isooctane	57	7.545	7.533	0.012	95	4843038	100.0	94.6	
117 n-Heptane	43	7.699	7.699	0.000	73	1968856	100.0	93.2	
44 Benzene	78	7.699	7.699	0.000	96	3901382	100.0	88.0	
45 Propionitrile	54	7.770	7.770	0.000	98	610856	1000.0	974.1	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	2764145	1000.0	944.4	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.888	7.888	0.000	87	681036	100.0	95.8	
48 Tert-amyl methyl ether	73	7.900	7.900	0.000	97	1612436	100.0	104.7	
49 1,2-Dichloroethane	62	7.983	7.971	0.012	97	877400	100.0	97.4	
50 Isobutyl alcohol	42	8.101	8.101	0.000	95	317919	2500.0	2434.0	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	1947346	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.444	0.001	90	1764497	100.0	95.3	
53 Trichloroethene	95	8.468	8.468	0.000	97	1033164	100.0	90.2	
54 n-Butanol	56	8.989	8.989	0.000	87	350149	2500.0	2410.5	
55 Dibromomethane	93	9.001	9.001	0.000	92	374311	100.0	101.7	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	98	960699	100.0	98.0	
123 Ethyl acrylate	55	9.226	9.225	0.001	98	686922	100.0	110.3	
57 Dichlorobromomethane	83	9.226	9.225	0.001	100	1058412	100.0	100.5	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	783327	200.0	229.4	
59 1,4-Dioxane	88	9.498	9.498	0.000	82	93173	2000.0	2053.7	
61 cis-1,3-Dichloropropene	75	10.030	10.018	0.012	96	1345122	100.0	108.4	
60 2-Chloroethyl vinyl ether	63		10.030				ND	ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	3429030	100.0	98.5	
63 Toluene	92	10.314	10.314	0.000	99	2459244	100.0	98.6	
64 2-Nitropropane	43	10.622	10.610	0.012	95	245997	200.0	203.3	
65 Tetrachloroethene	164	10.776	10.764	0.012	95	750302	100.0	101.8	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	94	457766	100.0	111.2	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	992506	100.0	110.4	
68 1,1,2-Trichloroethane	83	11.012	11.012	0.000	90	463301	100.0	96.3	
69 Ethyl methacrylate	69	11.048	11.048	0.000	85	776573	100.0	97.0	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	574462	100.0	106.8	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	1032067	100.0	101.7	
72 Ethylene Dibromide	107	11.438	11.438	0.000	98	496274	100.0	95.9	
S 73 1,3-Dichloropropene, Total	75				0			218.7	
118 n-Butyl acetate	43	11.640	11.639	0.001	99	834878	100.0	101.1	
74 2-Hexanone	43	11.722	11.722	0.000	95	334012	100.0	94.9	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	1088791	50.0	50.0	
75 1-Chlorohexane	91	11.994	11.994	0.000	93	1589188	100.0	97.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.006	12.006	0.000	95	2158692	100.0	93.6	
78 Ethylbenzene	91	12.042	12.042	0.000	96	4515381	100.0	96.2	
79 1,1,1,2-Tetrachloroethane	131	12.077	12.077	0.000	96	668584	100.0	102.5	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	97	1682032	100.0	100.9	
82 o-Xylene	106	12.610	12.610	0.000	98	1577643	100.0	103.6	
83 Styrene	104	12.669	12.669	0.000	95	2368233	100.0	102.3	
84 Bromoform	173	12.681	12.681	0.000	96	238230	100.0	100.5	
85 Isopropylbenzene	105	12.917	12.917	0.000	96	4080781	100.0	99.6	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	81	1149709	100.0	101.2	
87 Bromobenzene	156	13.272	13.272	0.000	95	728893	100.0	99.8	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	4783776	100.0	96.6	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	519382	100.0	94.9	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	2803907	100.0	99.3	
91 1,3,5-Trimethylbenzene	105	13.485	13.485	0.000	95	3005456	100.0	99.1	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	81	138108	100.0	92.1	
94 Cyclohexanone	55	13.533	13.533	0.000	74	138072	1000.0	952.0	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.544	-0.011	88	160634	100.0	94.7	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	2811019	100.0	99.7	
96 tert-Butylbenzene	119	13.781	13.781	0.000	93	2693269	100.0	100.0	
97 1,2,4-Trimethylbenzene	105	13.840	13.840	0.000	97	2934735	100.0	97.4	
98 sec-Butylbenzene	105	13.935	13.935	0.000	95	4107834	100.0	96.6	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	96	3255289	100.0	100.7	
100 1,3-Dichlorobenzene	146	14.124	14.124	0.000	97	1393704	100.0	94.8	
* 101 1,4-Dichlorobenzene-d4	152	14.195	14.195	0.000	96	424772	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	91	1288304	100.0	92.8	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	2590703	100.0	95.1	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	842154	100.0	104.4	
120 Benzyl chloride	126	14.432	14.432	0.000	89	160297	100.0	97.4	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	1159322	100.0	95.6	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	85	71783	100.0	101.9	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	63	309965	100.0	100.0	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	97	906816	100.0	96.3	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	415492	100.0	97.1	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	694692	100.0	96.3	
110 Naphthalene	128	16.112	16.112	0.000	97	1375730	100.0	105.4	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	576622	100.0	97.0	
S 112 Xylenes, Total	106				0			204.4	
S 113 Trihalomethanes, Total	1				0			402.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

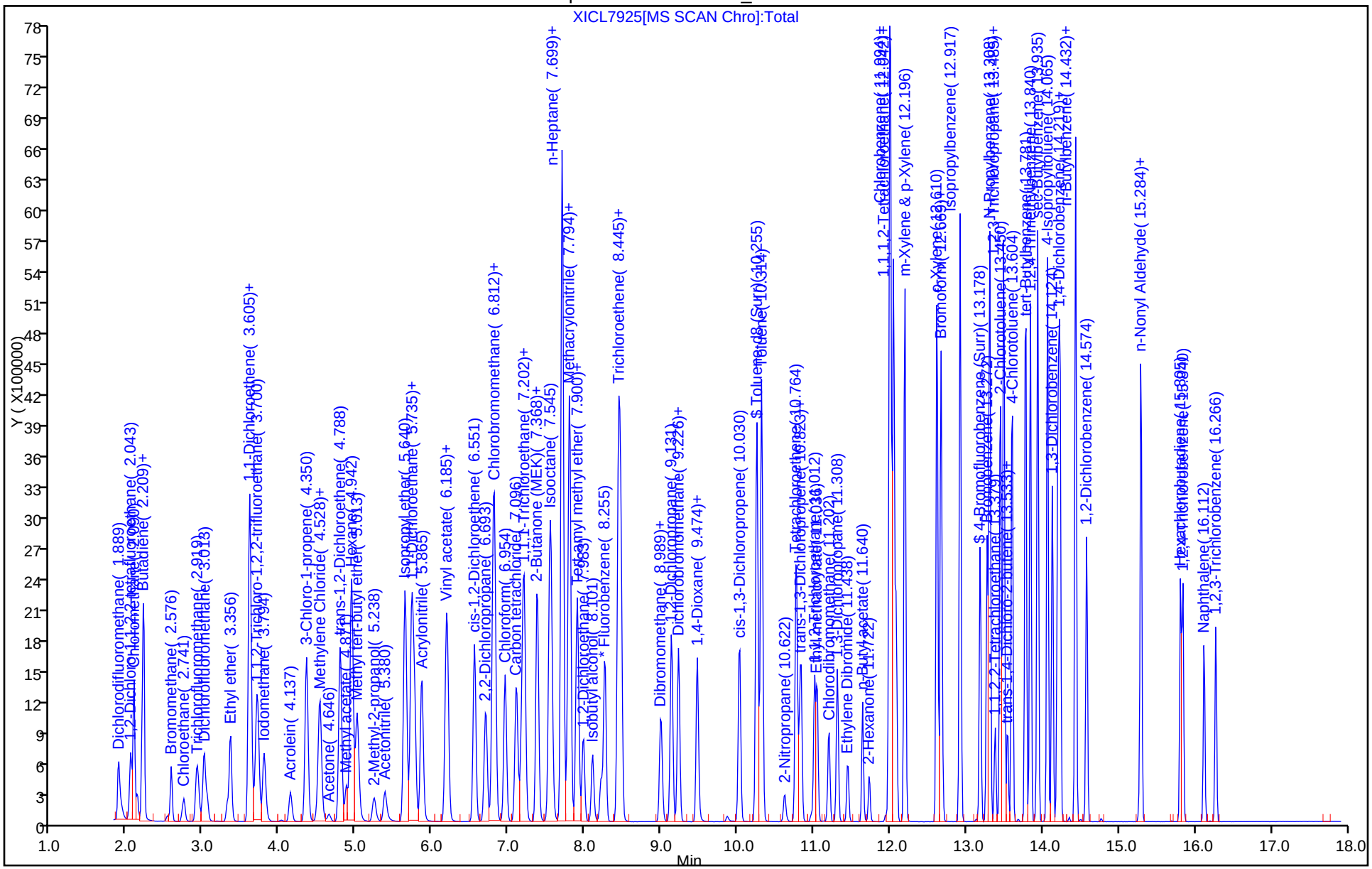
8260 Surr 25_00075	Amount Added: 20.00	Units: uL	
8260NewHiWrk_00202	Amount Added: 4.00	Units: uL	
I.S. Working_00149	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Jul-2017 17:36:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7925.D

Injection Date:	30-Jun-2017 11:47:30	Instrument ID:	VMSX	Operator ID:	ADB
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 30-Jun-2017 12:12:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: IC
Operator ID: ADB Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 03-Jul-2017 17:36:47 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: hannj Date: 02-Jul-2017 14:15:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.877	1.889	-0.012	99	1774840	200.0	169.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.055	-0.012	99	910369	200.0	178.9	
3 Chloromethane	50	2.090	2.078	0.012	99	2421431	200.0	166.6	
4 Vinyl chloride	62	2.197	2.185	0.012	98	1703927	200.0	160.0	
121 Butadiene	39	2.209	2.209	0.000	88	1348716	200.0	156.8	
5 Bromomethane	94	2.576	2.575	0.001	90	632095	200.0	193.0	
6 Chloroethane	64	2.741	2.741	0.000	99	692206	200.0	205.6	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	99	1595128	200.0	207.2	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	97	1750856	200.0	210.4	
8 Ethyl ether	74	3.345	3.345	0.001	92	874233	200.0	203.8	
11 Ethanol	45	3.593	3.605	-0.012	84	450695	8000.0	8558.0	
10 Carbon disulfide	76	3.605	3.605	0.000	99	5470715	200.0	154.6	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	95	1783495	200.0	175.0	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.711	-0.011	95	1271893	200.0	185.7	
13 Iodomethane	142	3.794	3.794	0.000	97	2327218	200.0	186.5	
14 Acrolein	56	4.137	4.137	0.000	99	787830	1000.0	1142.2	
15 3-Chloro-1-propene	39	4.350	4.350	0.000	94	2041609	200.0	193.7	
16 Isopropyl alcohol	45	4.481	4.504	-0.023	99	577371	2000.0	1999.9	
17 Methylene Chloride	84	4.516	4.528	-0.012	95	1682146	200.0	180.4	
18 Acetone	43	4.634	4.646	-0.012	99	267642	200.0	200.5	M
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	98	1986618	200.0	184.7	
20 Methyl acetate	74	4.871	4.871	0.000	98	295686	1000.0	1069.0	
21 Hexane	86	4.942	4.942	0.000	89	623231	200.0	181.8	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	97	3194560	200.0	205.2	
23 2-Methyl-2-propanol	59	5.226	5.238	-0.012	98	877260	2000.0	2108.1	
24 Acetonitrile	41	5.368	5.380	-0.012	100	1108613	2000.0	2105.9	
25 Isopropyl ether	45	5.640	5.640	0.000	95	5764083	200.0	206.2	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	91	3428966	200.0	194.8	
28 1,1-Dichloroethane	63	5.759	5.758	0.001	97	3355636	200.0	180.8	
S 26 1,2-Dichloroethene, Total	96				0			376.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.865	-0.012	100	3275827	2000.0	1989.5	
30 Tert-butyl ethyl ether	59	6.185	6.184	0.001	98	4363013	200.0	213.6	
31 Vinyl acetate	43	6.196	6.196	0.000	97	2552503	200.0	226.8	
32 cis-1,2-Dichloroethene	96	6.551	6.551	0.000	80	2026209	200.0	192.2	
33 2,2-Dichloropropane	77	6.693	6.693	0.000	90	1829947	200.0	183.3	
34 Cyclohexane	84	6.800	6.800	0.000	90	3124320	200.0	176.1	
35 Chlorobromomethane	128	6.824	6.823	0.001	95	603896	200.0	189.1	
36 Chloroform	83	6.954	6.954	0.000	94	2936875	200.0	185.7	
37 Carbon tetrachloride	117	7.096	7.096	0.000	98	2274137	200.0	197.2	
38 Tetrahydrofuran	71	7.155	7.166	-0.011	91	212130	400.0	449.0	
39 Ethyl acetate	45	7.167	7.178	-0.011	97	258843	400.0	407.2	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.202	-0.012	93	1339945	200.0	188.6	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	2555091	200.0	183.8	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	97	2772559	200.0	188.4	
43 2-Butanone (MEK)	43	7.392	7.403	-0.011	100	400736	200.0	200.5	
124 Isooctane	57	7.545	7.533	0.012	95	8719122	200.0	180.7	
44 Benzene	78	7.699	7.699	0.000	97	6601952	200.0	158.0	
117 n-Heptane	43	7.699	7.699	0.000	76	3437896	200.0	172.6	
45 Propionitrile	54	7.770	7.770	0.000	95	1166379	2000.0	1973.7	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	5054785	2000.0	1832.6	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.888	0.000	87	1351297	200.0	201.8	
48 Tert-amyl methyl ether	73	7.900	7.900	0.000	98	3037014	200.0	209.2	
49 1,2-Dichloroethane	62	7.971	7.971	0.000	97	1657364	200.0	195.2	
50 Isobutyl alcohol	42	8.102	8.101	0.001	96	646093	5000.0	5226.3	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	1835205	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.444	0.001	91	3109065	200.0	178.2	
53 Trichloroethene	95	8.468	8.468	0.000	98	1765508	200.0	163.6	
54 n-Butanol	56	8.977	8.989	-0.012	86	730079	5000.0	5242.4	
55 Dibromomethane	93	9.001	9.001	0.000	92	694468	200.0	200.2	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	98	1780042	200.0	192.7	
123 Ethyl acrylate	55	9.226	9.225	0.001	98	1332750	200.0	227.2	
57 Dichlorobromomethane	83	9.226	9.225	0.001	99	1976701	200.0	199.1	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	1489512	400.0	462.8	
59 1,4-Dioxane	88	9.498	9.498	0.000	85	179986	4000.0	4209.7	
61 cis-1,3-Dichloropropene	75	10.018	10.018	0.000	96	2495676	200.0	213.3	
60 2-Chloroethyl vinyl ether	63		10.030				ND	ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	6048286	200.0	201.7	
63 Toluene	92	10.314	10.314	0.000	98	4215932	200.0	196.3	
64 2-Nitropropane	43	10.610	10.610	0.000	95	517458	400.0	399.5	
65 Tetrachloroethene	164	10.764	10.764	0.000	94	1260016	200.0	198.4	
66 4-Methyl-2-pentanone (MIBK	43	10.799	10.811	-0.012	94	884746	200.0	249.7	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	1857722	200.0	239.9	
68 1,1,2-Trichloroethane	83	11.012	11.012	0.000	90	869330	200.0	209.9	
69 Ethyl methacrylate	69	11.048	11.048	0.000	85	1459925	200.0	208.6	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	1102362	200.0	238.0	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	1896449	200.0	217.1	
72 Ethylene Dibromide	107	11.438	11.438	0.000	98	937207	200.0	209.7	
S 73 1,3-Dichloropropene, Total	75				0			453.2	
118 n-Butyl acetate	43	11.640	11.639	0.001	99	1654668	200.0	199.8	
74 2-Hexanone	43	11.722	11.722	0.000	95	652751	200.0	212.0	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	91	937532	50.0	50.0	
75 1-Chlorohexane	91	12.006	11.994	0.012	90	2448039	200.0	174.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.006	12.006	0.000	94	3485114	200.0	175.5	
78 Ethylbenzene	91	12.042	12.042	0.000	97	7049044	200.0	174.3	
79 1,1,1,2-Tetrachloroethane	131	12.077	12.077	0.000	95	1182056	200.0	210.5	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	98	2755890	200.0	191.9	
82 o-Xylene	106	12.610	12.610	0.000	97	2590240	200.0	197.5	
83 Styrene	104	12.669	12.669	0.000	95	3882806	200.0	194.8	
84 Bromoform	173	12.681	12.681	0.000	96	445905	200.0	218.0	
85 Isopropylbenzene	105	12.918	12.917	0.001	97	6299200	200.0	178.1	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	81	1974434	200.0	201.3	
87 Bromobenzene	156	13.272	13.272	0.000	95	1234847	200.0	195.9	
88 N-Propylbenzene	91	13.308	13.308	0.000	97	7091326	200.0	166.0	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	996710	200.0	211.1	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	4484420	200.0	184.0	
91 1,3,5-Trimethylbenzene	105	13.485	13.485	0.000	95	4586652	200.0	175.2	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	79	247631	200.0	191.4	
94 Cyclohexanone	55	13.533	13.533	0.000	75	271014	2000.0	2128.9	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.544	-0.011	92	310504	200.0	208.6	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	4483260	200.0	184.3	
96 tert-Butylbenzene	119	13.781	13.781	0.000	93	4180679	200.0	179.9	
97 1,2,4-Trimethylbenzene	105	13.840	13.840	0.000	98	4603510	200.0	177.0	
98 sec-Butylbenzene	105	13.935	13.935	0.000	95	6088436	200.0	166.0	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	96	4874672	200.0	174.7	
100 1,3-Dichlorobenzene	146	14.124	14.124	0.000	97	2296641	200.0	181.1	
* 101 1,4-Dichlorobenzene-d4	152	14.195	14.195	0.000	96	366546	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	92	2107833	200.0	176.0	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	4098824	200.0	174.3	
120 Benzyl chloride	126	14.432	14.432	0.000	90	299565	200.0	208.9	
103 n-Butylbenzene	134	14.432	14.432	0.000	98	1251415	200.0	179.9	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	95	1964046	200.0	187.8	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	86	135937	200.0	223.7	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	69	598990	200.0	162.9	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	96	1407899	200.0	173.2	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	605360	200.0	163.9	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	1147667	200.0	184.3	
110 Naphthalene	128	16.112	16.112	0.000	97	2411292	200.0	214.1	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	94	934953	200.0	182.2	
S 112 Xylenes, Total	106				0			389.4	
S 113 Trihalomethanes, Total	1				0			840.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

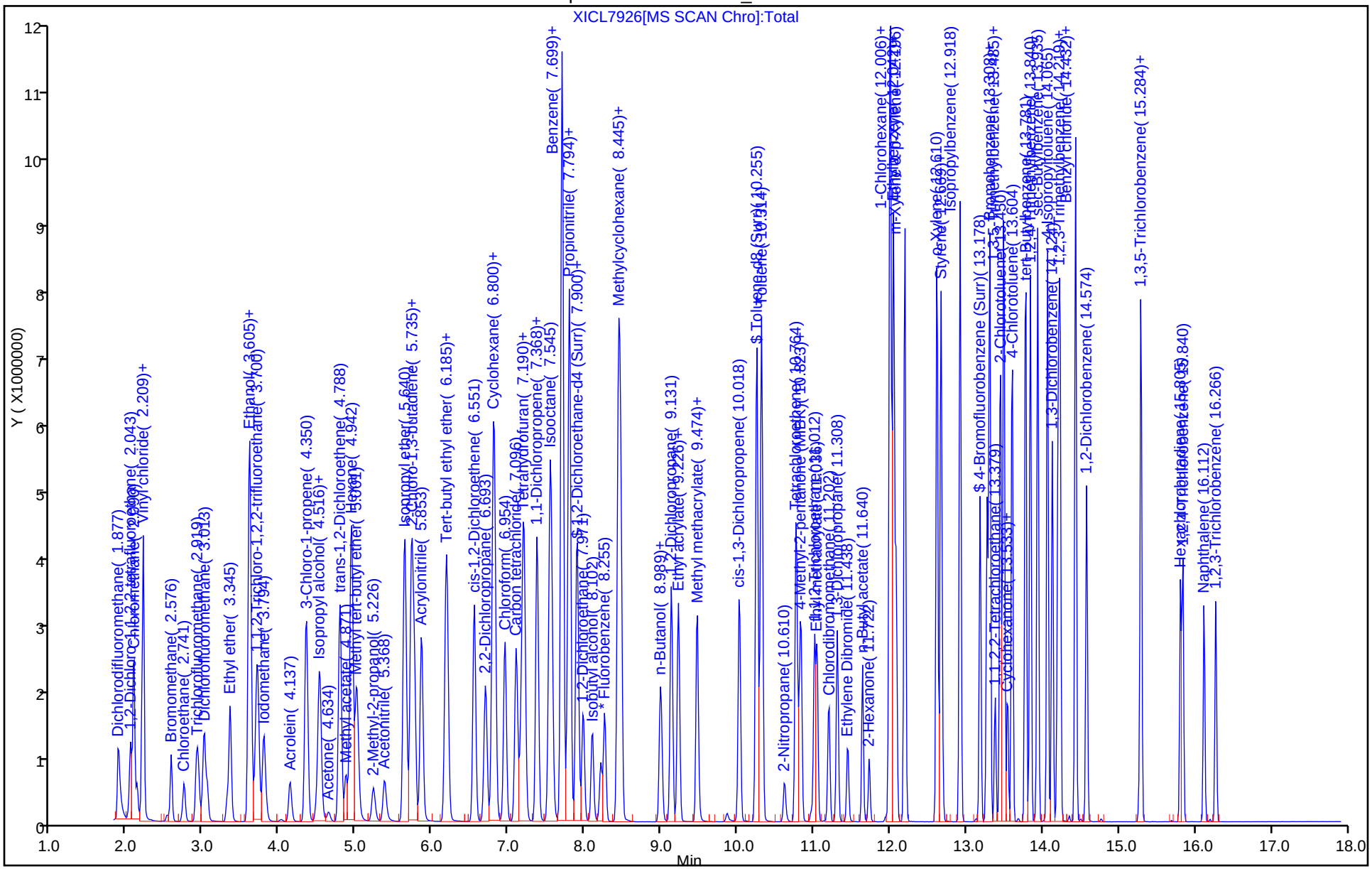
8260NewHiWrk_00202	Amount Added: 8.00	Units: uL	
8260_Surr_00048	Amount Added: 0.40	Units: uL	
I.S. Working_00149	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Jul-2017 17:36:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Injection Date:	30-Jun-2017 12:12:30	Instrument ID:	VMSX	Operator ID:	ADB
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

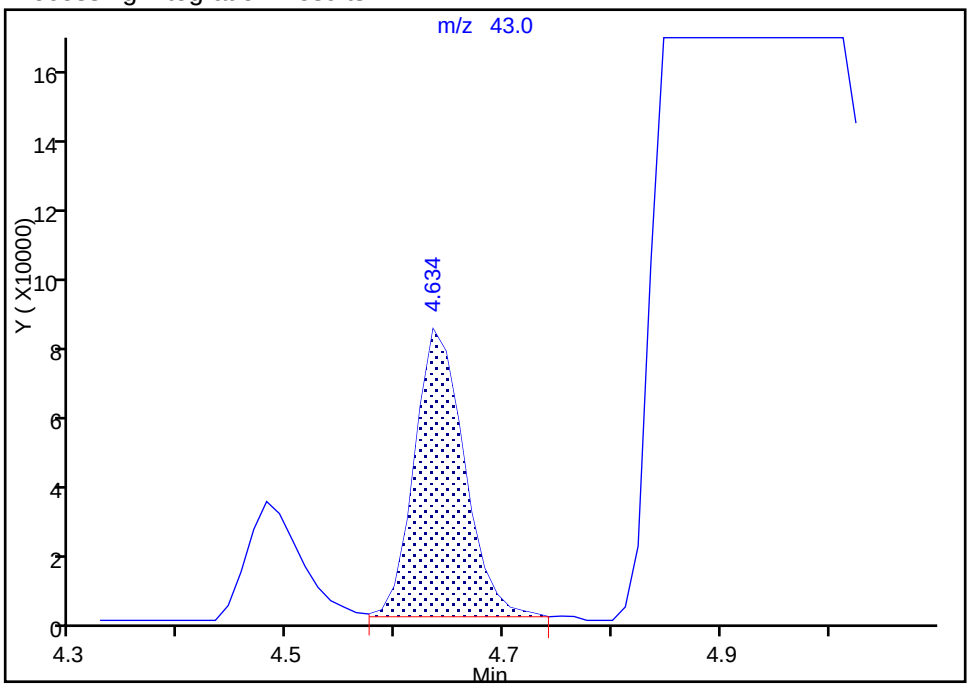
Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D
Injection Date: 30-Jun-2017 12:12:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: ADB ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

18 Acetone, CAS: 67-64-1

Signal: 1

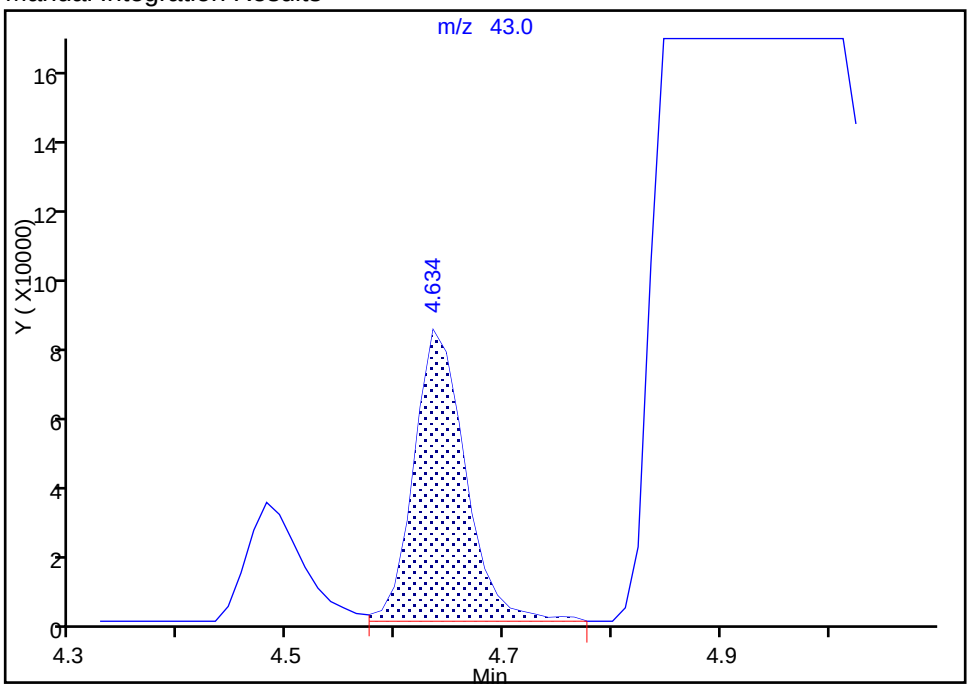
Processing Integration Results

RT: 4.63
Area: 255431
Amount: 167.8737
Amount Units: ug/l



Manual Integration Results

RT: 4.63
Area: 267642
Amount: 200.4699
Amount Units: ug/l



Reviewer: hannj, 02-Jul-2017 14:24:17
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: ICV 160-315895/12 Calibration Date: 06/30/2017 13:01

Instrument ID: VMSX Calib Start Date: 05/03/2017 21:27

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 05/04/2017 00:21

Lab File ID: XICV7928.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
2-Chloroethyl vinyl ether	Lin1				2.00	50.0	-100.0*	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICV7928.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 30-Jun-2017 13:01:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: ICV
Operator ID: ADB Instrument ID: VMSX
Sublist:

Method: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 03-Jul-2017 17:36:47 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: hannj Date: 02-Jul-2017 14:29:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	99	545923	50.0	48.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.055	-0.012	98	282493	50.0	51.1	
3 Chloromethane	50	2.090	2.078	0.012	99	744115	50.0	47.1	
4 Vinyl chloride	62	2.197	2.185	0.012	97	562267	50.0	48.6	
121 Butadiene	39	2.209	2.209	0.000	89	427745	50.0	45.8	
5 Bromomethane	94	2.575	2.575	0.000	91	178267	50.0	50.1	
6 Chloroethane	64	2.741	2.741	0.000	99	179137	50.0	49.0	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	99	410819	50.0	49.1	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	97	509853	50.0	56.4	
8 Ethyl ether	74	3.356	3.345	0.012	92	244920	50.0	52.5	
11 Ethanol	45	3.605	3.605	0.000	26	114616	2000.0	2003.3	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	97	551728	50.0	49.8	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1733800	50.0	45.1	
12 1,1,2-Trichloro-1,2,2-trif	151	3.699	3.711	-0.012	95	369283	50.0	49.6	
13 Iodomethane	142	3.794	3.794	0.000	97	667540	50.0	49.2	
14 Acrolein	56	4.137	4.137	0.000	99	168433	250.0	224.8	
15 3-Chloro-1-propene	39	4.350	4.350	0.000	94	594118	50.0	51.9	
16 Isopropyl alcohol	45	4.492	4.504	-0.012	98	134579	500.0	495.2	
17 Methylene Chloride	84	4.528	4.528	0.000	94	473613	50.0	46.8	
18 Acetone	43	4.646	4.646	0.000	99	73239	50.0	49.0	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	97	594250	50.0	50.8	
20 Methyl acetate	74	4.871	4.871	0.000	97	76349	250.0	254.1	
21 Hexane	86	4.942	4.942	0.000	87	190974	50.0	51.3	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	93	857619	50.0	50.7	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	96	206492	500.0	462.8	
24 Acetonitrile	41	5.380	5.380	0.000	99	259259	500.0	453.3	
25 Isopropyl ether	45	5.640	5.640	0.000	96	1631746	50.0	53.7	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	91	981482	50.0	51.3	
28 1,1-Dichloroethane	63	5.758	5.758	0.000	96	970644	50.0	48.1	
29 Acrylonitrile	53	5.865	5.865	0.000	100	862067	500.0	481.9	

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	6.184	6.184	0.000	98	1188504	50.0	53.6	
31 Vinyl acetate	43	6.196	6.196	0.000	98	539398	50.0	44.1	
32 cis-1,2-Dichloroethene	96	6.551	6.551	0.000	80	578331	50.0	50.5	
33 2,2-Dichloropropane	77	6.693	6.693	0.000	91	526625	50.0	48.6	
34 Cyclohexane	84	6.800	6.800	0.000	90	959889	50.0	49.8	
35 Chlorobromomethane	128	6.823	6.823	0.000	95	167291	50.0	48.2	
36 Chloroform	83	6.954	6.954	0.000	94	835556	50.0	48.6	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	640370	50.0	51.1	
38 Tetrahydrofuran	71	7.155	7.166	-0.011	92	50860	100.0	99.1	
39 Ethyl acetate	45	7.178	7.178	0.000	99	67021	100.0	99.0	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	99	767642	50.0	50.8	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	93	370801	50.0	48.0	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	97	811977	50.0	50.8	
43 2-Butanone (MEK)	43	7.403	7.403	0.000	100	108865	50.0	50.1	
124 Isooctane	57	7.545	7.533	0.012	95	2607769	50.0	49.7	
117 n-Heptane	43	7.699	7.699	0.000	74	1079124	50.0	49.9	
44 Benzene	78	7.699	7.699	0.000	96	2095423	50.0	46.1	
45 Propionitrile	54	7.770	7.770	0.000	98	306074	500.0	476.7	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	1414715	500.0	472.1	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.888	7.888	0.000	87	356422	50.0	49.0	
48 Tert-amyl methyl ether	73	7.900	7.900	0.000	97	805118	50.0	51.0	
49 1,2-Dichloroethane	62	7.983	7.971	0.012	97	449944	50.0	48.8	
50 Isobutyl alcohol	42	8.101	8.101	0.000	95	151599	1250.0	1144.0	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	1993760	50.0	50.0	
52 Methylcyclohexane	55	8.444	8.444	0.000	90	932700	50.0	49.2	
53 Trichloroethene	95	8.468	8.468	0.000	98	560706	50.0	47.8	
54 n-Butanol	56	8.989	8.989	0.000	88	155558	1250.0	1088.3	
55 Dibromomethane	93	9.001	9.001	0.000	93	189136	50.0	50.2	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	98	519935	50.0	51.8	
123 Ethyl acrylate	55	9.225	9.225	0.000	99	340820	50.0	53.5	
57 Dichlorobromomethane	83	9.225	9.225	0.000	99	558685	50.0	51.8	
58 Methyl methacrylate	69	9.474	9.474	0.000	92	385666	100.0	110.3	
59 1,4-Dioxane	88	9.498	9.498	0.000	83	45365	1000.0	976.7	
61 cis-1,3-Dichloropropene	75	10.030	10.018	0.012	96	711559	50.0	56.0	
60 2-Chloroethyl vinyl ether	63		10.030				ND	ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1869759	50.0	50.5	
63 Toluene	92	10.314	10.314	0.000	99	1326069	50.0	50.0	
64 2-Nitropropane	43	10.622	10.610	0.012	97	106357	100.0	95.4	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	395421	50.0	50.4	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	95	230772	50.0	52.7	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	499525	50.0	52.2	
68 1,1,2-Trichloroethane	83	11.012	11.012	0.000	88	247083	50.0	48.3	
69 Ethyl methacrylate	69	11.048	11.048	0.000	84	383982	50.0	46.5	
70 Chlorodibromomethane	129	11.202	11.202	0.000	90	297219	50.0	51.9	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	529113	50.0	49.0	
72 Ethylene Dibromide	107	11.438	11.438	0.000	99	249251	50.0	45.6	
118 n-Butyl acetate	43	11.639	11.639	0.000	99	408425	50.0	50.7	
74 2-Hexanone	43	11.722	11.722	0.000	95	167011	50.0	46.0	
* 76 Chlorobenzene-d5	117	11.994	11.983	0.011	88	1158427	50.0	50.0	
75 1-Chlorohexane	91	11.994	11.994	0.000	84	869242	50.0	50.1	
77 Chlorobenzene	112	12.006	12.006	0.000	96	1199723	50.0	48.9	
78 Ethylbenzene	91	12.042	12.042	0.000	96	2481308	50.0	49.7	

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	12.077	12.077	0.000	95	350885	50.0	50.6	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	97	909591	50.0	51.3	
82 o-Xylene	106	12.610	12.610	0.000	98	875130	50.0	54.0	
83 Styrene	104	12.669	12.669	0.000	94	1283990	50.0	52.1	
84 Bromoform	173	12.681	12.681	0.000	96	122962	50.0	51.1	
85 Isopropylbenzene	105	12.917	12.917	0.000	96	2332125	50.0	56.0	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	80	607208	50.0	52.6	
87 Bromobenzene	156	13.272	13.272	0.000	94	385164	50.0	51.9	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2729499	50.0	54.3	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	263221	50.0	47.4	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	1543945	50.0	53.8	
91 1,3,5-Trimethylbenzene	105	13.485	13.485	0.000	95	1677167	50.0	54.4	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	80	71629	50.0	47.1	
94 Cyclohexanone	55	13.544	13.533	0.011	67	58921	500.0	416.7	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.544	-0.011	87	81118	50.0	48.4	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	1546819	50.0	54.0	
96 tert-Butylbenzene	119	13.781	13.781	0.000	93	1515399	50.0	55.4	
97 1,2,4-Trimethylbenzene	105	13.840	13.840	0.000	97	1641271	50.0	53.6	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	2344162	50.0	54.3	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	97	1871352	50.0	57.0	
100 1,3-Dichlorobenzene	146	14.124	14.124	0.000	97	752337	50.0	50.4	
* 101 1,4-Dichlorobenzene-d4	152	14.195	14.195	0.000	95	431407	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	92	700509	50.0	49.7	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1455837	50.0	52.6	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	465599	50.0	56.9	
120 Benzyl chloride	126	14.432	14.432	0.000	89	73045	50.0	44.7	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	95	626380	50.0	50.9	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	84	35804	50.0	50.1	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	48	91102	50.0	43.6	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	96	505068	50.0	52.8	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	95	236378	50.0	54.4	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	393500	50.0	53.7	
110 Naphthalene	128	16.112	16.112	0.000	97	724105	50.0	54.6	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	94	321071	50.0	53.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

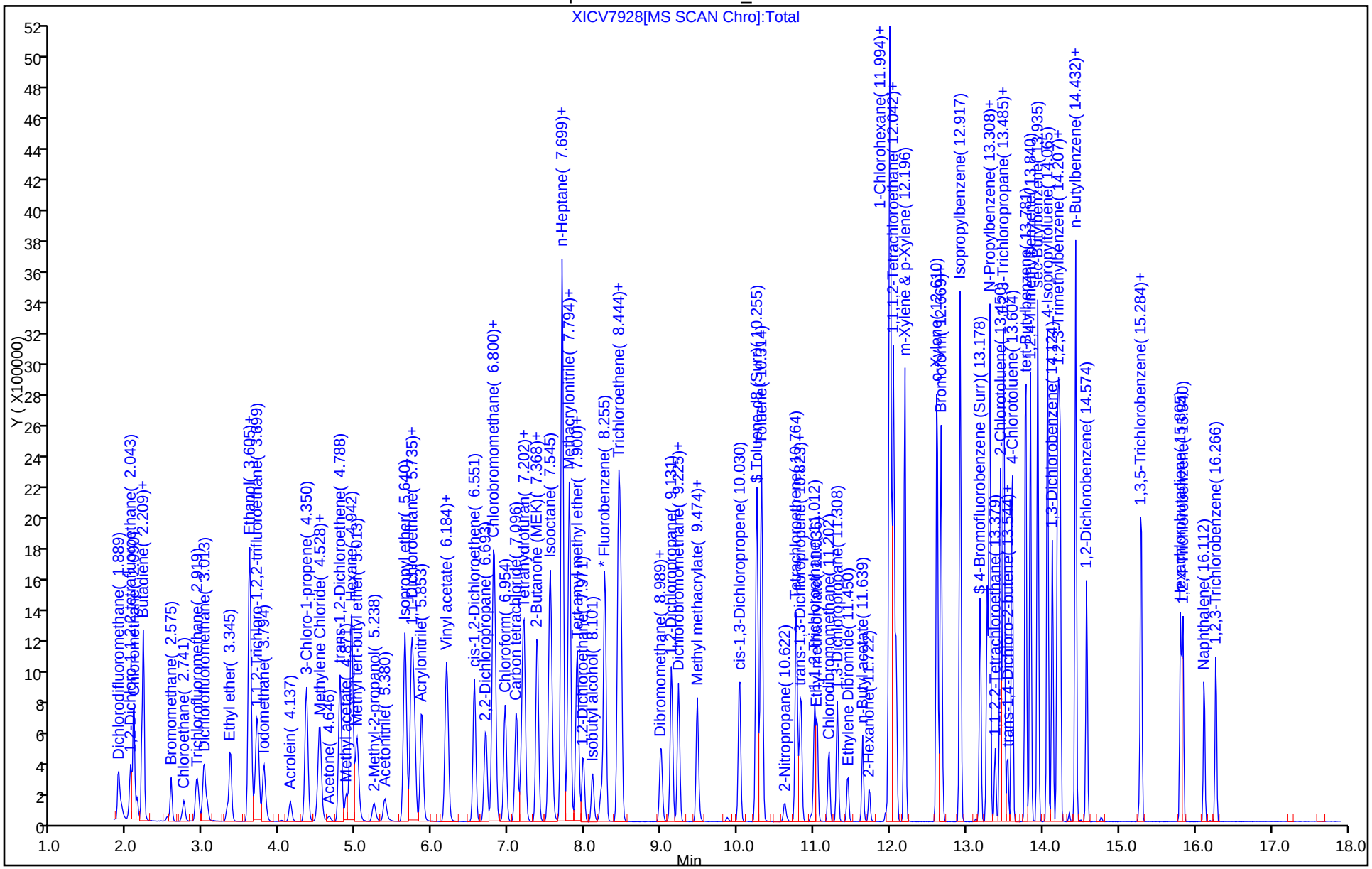
8260 Surr 25_00075	Amount Added: 10.00	Units: uL	
8260NewICVMix_00216	Amount Added: 10.00	Units: uL	
I.S. Working_00149	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Jul-2017 17:36:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICV7928.D

Injection Date:	30-Jun-2017 13:01:30	Instrument ID:	VMSX	Operator ID:	ADB
Lims ID:	ICV			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: ICV 160-315895/12 Calibration Date: 06/30/2017 13:01

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XICV7928.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	0.2851	0.2738	0.1000	48.0	50.0	-3.9	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1386	0.1417	0.0100	51.1	50.0	2.2	20.0
Chloromethane	Ave	0.3961	0.3732	0.1000	47.1	50.0	-5.8	20.0
Vinyl chloride	Ave	0.2902	0.2820	0.1000	48.6	50.0	-2.8	20.0
Butadiene	Ave	0.2344	0.2145	0.0100	45.8	50.0	-8.5	20.0
Bromomethane	Ave	0.0892	0.0894*	0.1000	50.1	50.0	0.2	20.0
Chloroethane	Ave	0.0917	0.0899*	0.1000	49.0	50.0	-2.0	20.0
Trichlorofluoromethane	Ave	0.2097	0.2061	0.1000	49.1	50.0	-1.7	20.0
Dichlorofluoromethane	Ave	0.2267	0.2557	0.0100	56.4	50.0	12.8	20.0
Ethyl ether	Ave	0.1169	0.1228	0.0100	52.5	50.0	5.1	20.0
1,1-Dichloroethene	Ave	0.2777	0.2767	0.1000	49.8	50.0	-0.4	20.0
Carbon disulfide	Ave	0.9642	0.8696	0.1000	45.1	50.0	-9.8	20.0
Ethanol	Ave	0.0014	0.0014*	0.0100	2000	2000	0.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1866	0.1852	0.1000	49.6	50.0	-0.7	20.0
Iodomethane	Ave	0.3400	0.3348	0.0100	49.2	50.0	-1.5	20.0
Acrolein	Ave	0.0188	0.0169	0.0010	225	250	-10.1	20.0
3-Chloro-1-propene	Ave	0.2872	0.2980	0.0100	51.9	50.0	3.8	20.0
Isopropyl alcohol	Qua		0.0068*	0.0100	495	500	-1.0	20.0
Methylene Chloride	Ave	0.2540	0.2376	0.1000	46.8	50.0	-6.5	20.0
Acetone	Lin		0.0367*	0.1000	49.0	50.0	-1.9	20.0
trans-1,2-Dichloroethene	Ave	0.2931	0.2981	0.1000	50.8	50.0	1.7	20.0
Methyl acetate	Ave	0.0075	0.0077*	0.1000	254	250	1.6	20.0
Hexane	Ave	0.0934	0.0958	0.0100	51.3	50.0	2.6	20.0
Methyl tert-butyl ether	Ave	0.4242	0.4302	0.1000	50.7	50.0	1.4	20.0
2-Methyl-2-propanol	Lin1		0.0104	0.0100	463	500	-7.4	20.0
Acetonitrile	Ave	0.0143	0.0130	0.0010	453	500	-9.3	20.0
Isopropyl ether	Ave	0.7615	0.8184	0.0100	53.7	50.0	7.5	20.0
2-Chloro-1,3-butadiene	Ave	0.4796	0.4923	0.0100	51.3	50.0	2.6	20.0
1,1-Dichloroethane	Ave	0.5058	0.4868	0.2000	48.1	50.0	-3.7	20.0
Acrylonitrile	Ave	0.0449	0.0432	0.0100	482	500	-3.6	20.0
Tert-butyl ethyl ether	Ave	0.5565	0.5961	0.0100	53.6	50.0	7.1	20.0
Vinyl acetate	Ave	0.3066	0.2705	0.0100	44.1	50.0	-11.8	20.0
cis-1,2-Dichloroethene	Ave	0.2872	0.2901	0.1000	50.5	50.0	1.0	20.0
2,2-Dichloropropane	Ave	0.2720	0.2641	0.0100	48.6	50.0	-2.9	20.0
Cyclohexane	Ave	0.4834	0.4815	0.1000	49.8	50.0	-0.4	20.0
Bromochloromethane	Ave	0.0870	0.0839	0.0100	48.2	50.0	-3.6	20.0
Chloroform	Ave	0.4309	0.4191	0.2000	48.6	50.0	-2.7	20.0
Carbon tetrachloride	Ave	0.3141	0.3212	0.1000	51.1	50.0	2.3	20.0
Ethyl acetate	Lin1		0.0168	0.0100	99.0	100	-1.0	20.0
1,1,1-Trichloroethane	Ave	0.3787	0.3850	0.1000	50.8	50.0	1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: ICV 160-315895/12 Calibration Date: 06/30/2017 13:01

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XICV7928.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-Dichloropropene	Ave	0.4009	0.4073	0.0100	50.8	50.0	1.6	20.0
2-Butanone (MEK)	Ave	0.0545	0.0546*	0.1000	50.1	50.0	0.3	20.0
Isooctane	Ave	1.315	1.308	0.0100	49.7	50.0	-0.5	20.0
Benzene	Ave	1.139	1.051	0.5000	46.1	50.0	-7.7	20.0
n-Heptane	Ave	0.5425	0.5413	0.0100	49.9	50.0	-0.2	20.0
Propionitrile	Ave	0.0161	0.0154	0.0010	477	500	-4.7	20.0
Methacrylonitrile	Ave	0.0751	0.0710	0.0100	472	500	-5.6	20.0
Tert-amyl methyl ether	Ave	0.3956	0.4038	0.0100	51.0	50.0	2.1	20.0
1,2-Dichloroethane	Ave	0.2313	0.2257	0.1000	48.8	50.0	-2.4	20.0
Isobutyl alcohol	Lin1		0.0030	0.0010	1140	1250	-8.5	20.0
Methylcyclohexane	Ave	0.4753	0.4678	0.1000	49.2	50.0	-1.6	20.0
Trichloroethene	Ave	0.2939	0.2812	0.2000	47.8	50.0	-4.3	20.0
n-Butanol	Lin1		0.0031*	0.0100	1090	1250	-12.9	20.0
Dibromomethane	Ave	0.0945	0.0949	0.0100	50.2	50.0	0.4	20.0
1,2-Dichloropropane	Ave	0.2517	0.2608	0.1000	51.8	50.0	3.6	20.0
Bromodichloromethane	Ave	0.2705	0.2802	0.2000	51.8	50.0	3.6	20.0
Ethyl acrylate	Ave	0.1598	0.1709	0.0100	53.5	50.0	6.9	20.0
Methyl methacrylate	Ave	0.0877	0.0967	0.0100	110	100	10.3	20.0
1,4-Dioxane	Ave	0.0012	0.0011	0.0010	977	1000	-2.3	20.0
cis-1,3-Dichloropropene	Ave	0.3187	0.3569	0.2000	56.0	50.0	12.0	20.0
Toluene	Ave	1.145	1.145	0.4000	50.0	50.0	-0.0	20.0
2-Nitropropane	QuaF		0.0459	0.0100	95.4	100	-4.6	20.0
Tetrachloroethene	Ave	0.3386	0.3413	0.2000	50.4	50.0	0.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1890	0.1992	0.1000	52.7	50.0	5.4	20.0
trans-1,3-Dichloropropene	Ave	0.4130	0.4312	0.1000	52.2	50.0	4.4	20.0
1,1,2-Trichloroethane	Ave	0.2209	0.2133	0.1000	48.3	50.0	-3.5	20.0
Ethyl methacrylate	Lin1		0.3315	0.0100	46.5	50.0	-7.0	20.0
Dibromochloromethane	Ave	0.2470	0.2566	0.1000	51.9	50.0	3.9	20.0
1,3-Dichloropropane	Ave	0.4659	0.4568	0.0100	49.0	50.0	-2.0	20.0
1,2-Dibromoethane	Lin1		0.2152	0.1000	45.6	50.0	-8.8	20.0
n-Butyl acetate	QuaF		0.3526	0.0100	50.7	50.0	1.4	20.0
2-Hexanone	Lin1		0.1442	0.1000	46.0	50.0	-7.9	20.0
1-Chlorohexane	Ave	0.7493	0.7504	0.0100	50.1	50.0	0.1	20.0
Chlorobenzene	Ave	1.059	1.036	0.5000	48.9	50.0	-2.2	20.0
Ethylbenzene	Ave	2.156	2.142	0.1000	49.7	50.0	-0.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2995	0.3029	0.0100	50.6	50.0	1.1	20.0
m,p-Xylenes	Ave	0.7659	0.7852	0.1000	51.3	50.0	2.5	20.0
o-Xylene	Ave	0.6996	0.7555	0.3000	54.0	50.0	8.0	20.0
Styrene	Ave	1.063	1.108	0.3000	52.1	50.0	4.2	20.0
Bromoform	Ave	0.2790	0.2850	0.1000	51.1	50.0	2.2	20.0
Isopropylbenzene	Ave	4.824	5.406	0.1000	56.0	50.0	12.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: ICV 160-315895/12 Calibration Date: 06/30/2017 13:01

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XICV7928.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
Bromobenzene	Ave	0.8599	0.8928	0.0100	51.9	50.0	3.8	20.0
N-Propylbenzene	Ave	5.829	6.327	0.0100	54.3	50.0	8.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6439	0.6102	0.3000	47.4	50.0	-5.2	20.0
2-Chlorotoluene	Ave	3.324	3.579	0.0100	53.8	50.0	7.7	20.0
1,3,5-Trimethylbenzene	Ave	3.571	3.888	0.0100	54.4	50.0	8.9	20.0
1,2,3-Trichloropropane	Ave	0.1764	0.1660	0.0100	47.1	50.0	-5.9	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1880	0.0100	48.4	50.0	-3.1	20.0
Cyclohexanone	Lin1		0.0137	0.0010	417	500	-16.7	20.0
4-Chlorotoluene	Ave	3.318	3.586	0.0100	54.0	50.0	8.1	20.0
tert-Butylbenzene	Ave	3.170	3.513	0.0100	55.4	50.0	10.8	20.0
1,2,4-Trimethylbenzene	Ave	3.547	3.804	0.0100	53.6	50.0	7.3	20.0
sec-Butylbenzene	Ave	5.003	5.434	0.0100	54.3	50.0	8.6	20.0
p-Isopropyltoluene	Ave	3.806	4.338	0.0100	57.0	50.0	14.0	20.0
1,3-Dichlorobenzene	Ave	1.730	1.744	0.6000	50.4	50.0	0.8	20.0
1,4-Dichlorobenzene	Ave	1.633	1.624	0.5000	49.7	50.0	-0.6	20.0
1,2,3-Trimethylbenzene	Ave	3.207	3.375	0.0100	52.6	50.0	5.2	20.0
Benzyl chloride	Lin1		0.1693	0.0100	44.7	50.0	-10.6	20.0
n-Butylbenzene	Ave	0.9491	1.079	0.0100	56.9	50.0	13.7	20.0
1,2-Dichlorobenzene	Ave	1.427	1.452	0.4000	50.9	50.0	1.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0829	0.0830	0.0500	50.1	50.0	0.1	20.0
n-Nonyl Aldehyde	Qua		0.2112	0.0100	43.6	50.0	-12.9	20.0
1,3,5-Trichlorobenzene	Ave	1.109	1.171	0.0100	52.8	50.0	5.6	20.0
Hexachlorobutadiene	Ave	0.5039	0.5479	0.0100	54.4	50.0	8.7	20.0
1,2,4-Trichlorobenzene	Ave	0.8494	0.9121	0.2000	53.7	50.0	7.4	20.0
Naphthalene	Ave	1.536	1.678	0.0100	54.6	50.0	9.2	20.0
1,2,3-Trichlorobenzene	Ave	0.7001	0.7442	0.0100	53.2	50.0	6.3	20.0
Dibromofluoromethane (Surr)	Ave	0.1936	0.1860	0.0100	48.0	50.0	-3.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1824	0.1788	0.0100	49.0	50.0	-2.0	20.0
Toluene-d8 (Surr)	Ave	1.599	1.614	0.0100	50.5	50.0	0.9	20.0
4-Bromofluorobenzene (Surr)	Ave	1.338	1.408	0.0100	52.6	50.0	5.2	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICV7928.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 30-Jun-2017 13:01:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: ICV
Operator ID: ADB Instrument ID: VMSX
Sublist:

Method: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 03-Jul-2017 17:36:47 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: hannj Date: 02-Jul-2017 14:29:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	99	545923	50.0	48.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.055	-0.012	98	282493	50.0	51.1	
3 Chloromethane	50	2.090	2.078	0.012	99	744115	50.0	47.1	
4 Vinyl chloride	62	2.197	2.185	0.012	97	562267	50.0	48.6	
121 Butadiene	39	2.209	2.209	0.000	89	427745	50.0	45.8	
5 Bromomethane	94	2.575	2.575	0.000	91	178267	50.0	50.1	
6 Chloroethane	64	2.741	2.741	0.000	99	179137	50.0	49.0	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	99	410819	50.0	49.1	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	97	509853	50.0	56.4	
8 Ethyl ether	74	3.356	3.345	0.012	92	244920	50.0	52.5	
11 Ethanol	45	3.605	3.605	0.000	26	114616	2000.0	2003.3	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	97	551728	50.0	49.8	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1733800	50.0	45.1	
12 1,1,2-Trichloro-1,2,2-trif	151	3.699	3.711	-0.012	95	369283	50.0	49.6	
13 Iodomethane	142	3.794	3.794	0.000	97	667540	50.0	49.2	
14 Acrolein	56	4.137	4.137	0.000	99	168433	250.0	224.8	
15 3-Chloro-1-propene	39	4.350	4.350	0.000	94	594118	50.0	51.9	
16 Isopropyl alcohol	45	4.492	4.504	-0.012	98	134579	500.0	495.2	
17 Methylene Chloride	84	4.528	4.528	0.000	94	473613	50.0	46.8	
18 Acetone	43	4.646	4.646	0.000	99	73239	50.0	49.0	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	97	594250	50.0	50.8	
20 Methyl acetate	74	4.871	4.871	0.000	97	76349	250.0	254.1	
21 Hexane	86	4.942	4.942	0.000	87	190974	50.0	51.3	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	93	857619	50.0	50.7	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	96	206492	500.0	462.8	
24 Acetonitrile	41	5.380	5.380	0.000	99	259259	500.0	453.3	
25 Isopropyl ether	45	5.640	5.640	0.000	96	1631746	50.0	53.7	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	91	981482	50.0	51.3	
28 1,1-Dichloroethane	63	5.758	5.758	0.000	96	970644	50.0	48.1	
29 Acrylonitrile	53	5.865	5.865	0.000	100	862067	500.0	481.9	

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	6.184	6.184	0.000	98	1188504	50.0	53.6	
31 Vinyl acetate	43	6.196	6.196	0.000	98	539398	50.0	44.1	
32 cis-1,2-Dichloroethene	96	6.551	6.551	0.000	80	578331	50.0	50.5	
33 2,2-Dichloropropane	77	6.693	6.693	0.000	91	526625	50.0	48.6	
34 Cyclohexane	84	6.800	6.800	0.000	90	959889	50.0	49.8	
35 Chlorobromomethane	128	6.823	6.823	0.000	95	167291	50.0	48.2	
36 Chloroform	83	6.954	6.954	0.000	94	835556	50.0	48.6	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	640370	50.0	51.1	
38 Tetrahydrofuran	71	7.155	7.166	-0.011	92	50860	100.0	99.1	
39 Ethyl acetate	45	7.178	7.178	0.000	99	67021	100.0	99.0	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	99	767642	50.0	50.8	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	93	370801	50.0	48.0	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	97	811977	50.0	50.8	
43 2-Butanone (MEK)	43	7.403	7.403	0.000	100	108865	50.0	50.1	
124 Isooctane	57	7.545	7.533	0.012	95	2607769	50.0	49.7	
117 n-Heptane	43	7.699	7.699	0.000	74	1079124	50.0	49.9	
44 Benzene	78	7.699	7.699	0.000	96	2095423	50.0	46.1	
45 Propionitrile	54	7.770	7.770	0.000	98	306074	500.0	476.7	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	1414715	500.0	472.1	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.888	7.888	0.000	87	356422	50.0	49.0	
48 Tert-amyl methyl ether	73	7.900	7.900	0.000	97	805118	50.0	51.0	
49 1,2-Dichloroethane	62	7.983	7.971	0.012	97	449944	50.0	48.8	
50 Isobutyl alcohol	42	8.101	8.101	0.000	95	151599	1250.0	1144.0	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	1993760	50.0	50.0	
52 Methylcyclohexane	55	8.444	8.444	0.000	90	932700	50.0	49.2	
53 Trichloroethene	95	8.468	8.468	0.000	98	560706	50.0	47.8	
54 n-Butanol	56	8.989	8.989	0.000	88	155558	1250.0	1088.3	
55 Dibromomethane	93	9.001	9.001	0.000	93	189136	50.0	50.2	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	98	519935	50.0	51.8	
123 Ethyl acrylate	55	9.225	9.225	0.000	99	340820	50.0	53.5	
57 Dichlorobromomethane	83	9.225	9.225	0.000	99	558685	50.0	51.8	
58 Methyl methacrylate	69	9.474	9.474	0.000	92	385666	100.0	110.3	
59 1,4-Dioxane	88	9.498	9.498	0.000	83	45365	1000.0	976.7	
61 cis-1,3-Dichloropropene	75	10.030	10.018	0.012	96	711559	50.0	56.0	
60 2-Chloroethyl vinyl ether	63		10.030				ND	ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1869759	50.0	50.5	
63 Toluene	92	10.314	10.314	0.000	99	1326069	50.0	50.0	
64 2-Nitropropane	43	10.622	10.610	0.012	97	106357	100.0	95.4	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	395421	50.0	50.4	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	95	230772	50.0	52.7	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	499525	50.0	52.2	
68 1,1,2-Trichloroethane	83	11.012	11.012	0.000	88	247083	50.0	48.3	
69 Ethyl methacrylate	69	11.048	11.048	0.000	84	383982	50.0	46.5	
70 Chlorodibromomethane	129	11.202	11.202	0.000	90	297219	50.0	51.9	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	529113	50.0	49.0	
72 Ethylene Dibromide	107	11.438	11.438	0.000	99	249251	50.0	45.6	
118 n-Butyl acetate	43	11.639	11.639	0.000	99	408425	50.0	50.7	
74 2-Hexanone	43	11.722	11.722	0.000	95	167011	50.0	46.0	
* 76 Chlorobenzene-d5	117	11.994	11.983	0.011	88	1158427	50.0	50.0	
75 1-Chlorohexane	91	11.994	11.994	0.000	84	869242	50.0	50.1	
77 Chlorobenzene	112	12.006	12.006	0.000	96	1199723	50.0	48.9	
78 Ethylbenzene	91	12.042	12.042	0.000	96	2481308	50.0	49.7	

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	12.077	12.077	0.000	95	350885	50.0	50.6	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	97	909591	50.0	51.3	
82 o-Xylene	106	12.610	12.610	0.000	98	875130	50.0	54.0	
83 Styrene	104	12.669	12.669	0.000	94	1283990	50.0	52.1	
84 Bromoform	173	12.681	12.681	0.000	96	122962	50.0	51.1	
85 Isopropylbenzene	105	12.917	12.917	0.000	96	2332125	50.0	56.0	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	80	607208	50.0	52.6	
87 Bromobenzene	156	13.272	13.272	0.000	94	385164	50.0	51.9	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2729499	50.0	54.3	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	263221	50.0	47.4	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	1543945	50.0	53.8	
91 1,3,5-Trimethylbenzene	105	13.485	13.485	0.000	95	1677167	50.0	54.4	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	80	71629	50.0	47.1	
94 Cyclohexanone	55	13.544	13.533	0.011	67	58921	500.0	416.7	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.544	-0.011	87	81118	50.0	48.4	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	1546819	50.0	54.0	
96 tert-Butylbenzene	119	13.781	13.781	0.000	93	1515399	50.0	55.4	
97 1,2,4-Trimethylbenzene	105	13.840	13.840	0.000	97	1641271	50.0	53.6	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	2344162	50.0	54.3	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	97	1871352	50.0	57.0	
100 1,3-Dichlorobenzene	146	14.124	14.124	0.000	97	752337	50.0	50.4	
* 101 1,4-Dichlorobenzene-d4	152	14.195	14.195	0.000	95	431407	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	92	700509	50.0	49.7	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1455837	50.0	52.6	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	465599	50.0	56.9	
120 Benzyl chloride	126	14.432	14.432	0.000	89	73045	50.0	44.7	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	95	626380	50.0	50.9	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	84	35804	50.0	50.1	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	48	91102	50.0	43.6	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	96	505068	50.0	52.8	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	95	236378	50.0	54.4	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	393500	50.0	53.7	
110 Naphthalene	128	16.112	16.112	0.000	97	724105	50.0	54.6	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	94	321071	50.0	53.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

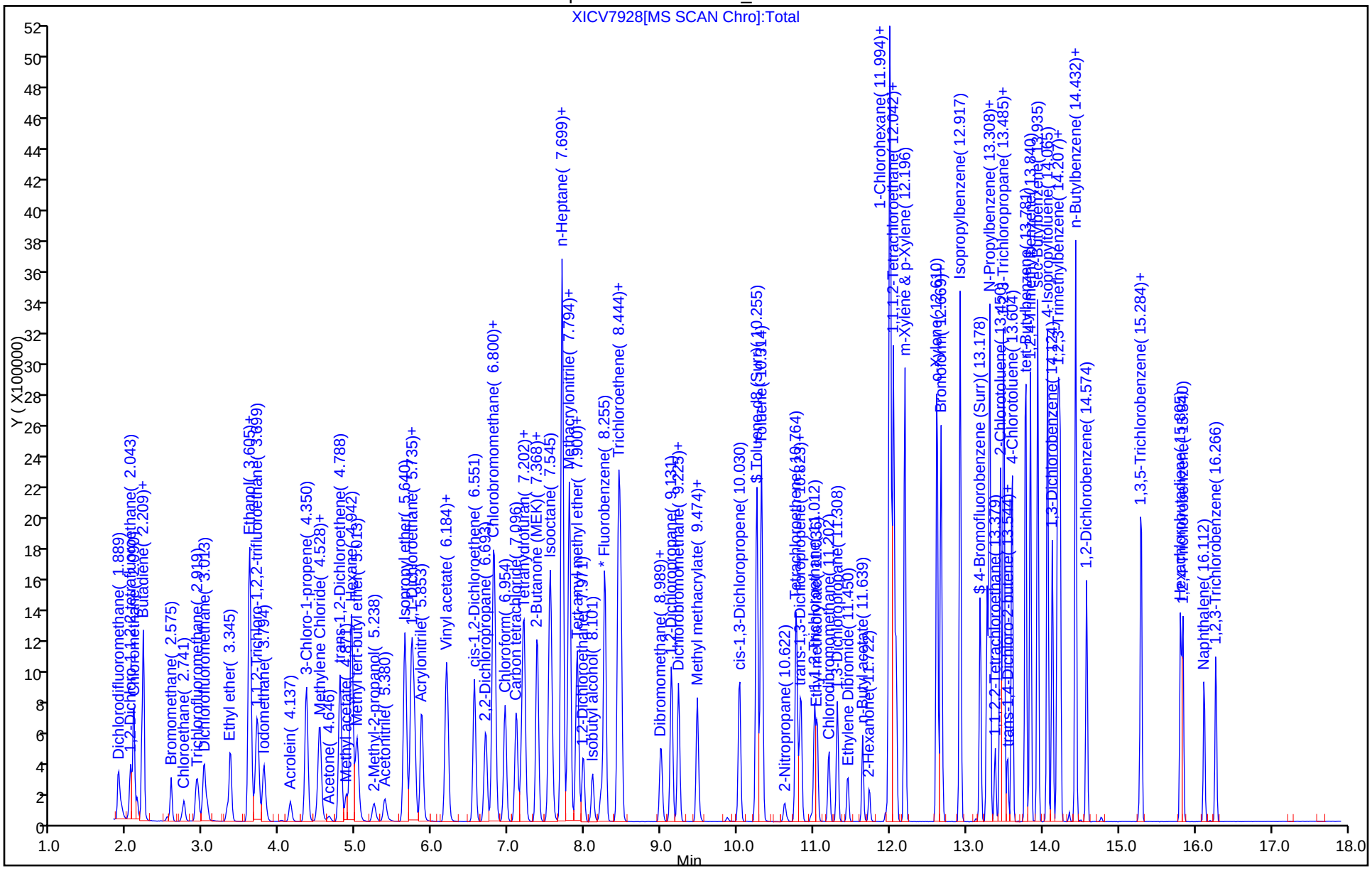
8260 Surr 25_00075	Amount Added: 10.00	Units: uL	
8260NewICVMix_00216	Amount Added: 10.00	Units: uL	
I.S. Working_00149	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Jul-2017 17:36:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICV7928.D

Injection Date:	30-Jun-2017 13:01:30	Instrument ID:	VMSX	Operator ID:	ADB
Lims ID:	ICV			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCV 160-320257/3 Calibration Date: 08/01/2017 15:49

Instrument ID: VMSX Calib Start Date: 05/03/2017 21:27

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 05/04/2017 00:21

Lab File ID: XCCV8165.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
2-Chloroethyl vinyl ether	Lin1		0.0220	0.0100		50.0		20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XCCV8165.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Aug-2017 15:49:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-003
Misc. Info.: CCVIS
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:04:47 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:04:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.878	0.000	99	442361	50.0	44.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	214016	50.0	43.9	
3 Chloromethane	50	2.091	2.091	0.000	99	620730	50.0	44.6	
4 Vinyl chloride	62	2.197	2.197	0.000	98	463654	50.0	45.5	
121 Butadiene	39	2.209	2.209	0.000	89	382374	50.0	46.4	
5 Bromomethane	94	2.576	2.576	0.000	92	161690	50.0	51.6	
6 Chloroethane	64	2.741	2.741	0.000	98	137879	50.0	42.8	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	406409	50.0	55.1	
122 Dichlorofluoromethane	67	3.002	3.002	0.000	97	419072	50.0	52.6	
8 Ethyl ether	74	3.345	3.345	0.000	93	192825	50.0	46.9	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	96	440647	50.0	45.1	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1503390	50.0	44.4	
11 Ethanol	45	3.605	3.605	0.000	25	85315	2000.0	1691.6	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	305230	50.0	46.5	
13 Iodomethane	142	3.795	3.795	0.000	97	552872	50.0	46.3	
14 Acrolein	56	4.138	4.138	0.000	100	163720	250.0	247.8	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	492046	50.0	48.7	
16 Isopropyl alcohol	45	4.493	4.493	0.000	97	109520	500.0	459.1	
17 Methylene Chloride	84	4.516	4.516	0.000	95	392555	50.0	44.0	
18 Acetone	43	4.647	4.647	0.000	100	54657	50.0	41.2	
19 trans-1,2-Dichloroethene	96	4.789	4.789	0.000	98	461221	50.0	44.8	
20 Methyl acetate	74	4.871	4.871	0.000	98	57869	250.0	218.5	
21 Hexane	86	4.942	4.942	0.000	88	151253	50.0	46.1	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	94	662915	50.0	44.5	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	96	160774	500.0	409.7	
24 Acetonitrile	41	5.380	5.380	0.000	99	233789	500.0	463.7	
25 Isopropyl ether	45	5.641	5.641	0.000	95	1279580	50.0	47.8	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	92	808652	50.0	48.0	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	96	792768	50.0	44.6	
29 Acrylonitrile	53	5.854	5.854	0.000	99	714333	500.0	453.0	

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	6.185	6.185	0.000	98	1002759	50.0	51.3	
31 Vinyl acetate	43	6.197	6.197	0.000	97	612016	50.0	56.8	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	80	469257	50.0	46.5	
33 2,2-Dichloropropane	77	6.694	6.694	0.000	93	449733	50.0	47.0	
34 Cyclohexane	84	6.800	6.800	0.000	90	760183	50.0	44.7	
35 Chlorobromomethane	128	6.824	6.824	0.000	96	151656	50.0	49.6	
36 Chloroform	83	6.954	6.954	0.000	94	681018	50.0	45.0	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	518995	50.0	47.0	
38 Tetrahydrofuran	71	7.155	7.155	0.000	91	39447	100.0	87.2	
39 Ethyl acetate	45	7.167	7.167	0.000	99	52563	100.0	88.4	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.191	0.000	92	341377	50.0	50.2	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	623763	50.0	46.9	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	97	640458	50.0	45.4	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	100	86941	50.0	45.4	
124 Isooctane	57	7.546	7.546	0.000	96	2095896	50.0	45.4	
117 n-Heptane	43	7.699	7.699	0.000	73	886213	50.0	46.5	
44 Benzene	78	7.699	7.699	0.000	96	1759510	50.0	44.0	
45 Propionitrile	54	7.770	7.770	0.000	95	254267	500.0	449.3	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	1210871	500.0	458.4	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	88	315789	50.0	49.2	
48 Tert-amyl methyl ether	73	7.901	7.901	0.000	96	709032	50.0	51.0	
49 1,2-Dichloroethane	62	7.972	7.972	0.000	96	375236	50.0	46.2	
50 Isobutyl alcohol	42	8.102	8.102	0.000	95	124233	1250.0	1064.9	
* 51 Fluorobenzene	96	8.256	8.256	0.000	99	1757567	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.433	0.000	91	771301	50.0	46.2	
53 Trichloroethene	95	8.469	8.469	0.000	98	457214	50.0	44.2	
54 n-Butanol	56	8.989	8.989	0.000	91	124128	1250.0	992.3	
55 Dibromomethane	93	9.001	9.001	0.000	95	159387	50.0	48.0	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	96	412521	50.0	46.6	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	264660	50.0	47.1	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	465477	50.0	49.0	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	291951	100.0	94.7	
59 1,4-Dioxane	88	9.498	9.498	0.000	89	38330	1000.0	936.1	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	91	38712	NC	NC	
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	95	570824	50.0	50.9	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1646485	50.0	48.2	
63 Toluene	92	10.315	10.315	0.000	98	1121388	50.0	45.9	
64 2-Nitropropane	43	10.610	10.610	0.000	98	96893	100.0	94.4	
65 Tetrachloroethene	164	10.764	10.764	0.000	94	343524	50.0	47.5	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.800	0.000	95	179027	50.0	44.4	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	94	433100	50.0	49.1	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	89	201248	50.0	42.7	
69 Ethyl methacrylate	69	11.036	11.036	0.000	90	301447	50.0	40.0	
70 Chlorodibromomethane	129	11.202	11.202	0.000	90	256477	50.0	48.6	
71 1,3-Dichloropropane	76	11.309	11.309	0.000	92	438352	50.0	44.1	
72 Ethylene Dibromide	107	11.439	11.439	0.000	98	213944	50.0	42.5	
118 n-Butyl acetate	43	11.640	11.640	0.000	99	316431	50.0	43.2	
74 2-Hexanone	43	11.723	11.723	0.000	95	127734	50.0	38.7	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	1067648	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	88	755145	50.0	47.2	
77 Chlorobenzene	112	12.007	12.007	0.000	94	1048769	50.0	46.4	
78 Ethylbenzene	91	12.042	12.042	0.000	96	2082492	50.0	45.2	

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	12.078	12.078	0.000	95	306034	50.0	47.9	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	97	769273	50.0	47.0	
82 o-Xylene	106	12.610	12.610	0.000	97	728947	50.0	48.8	
83 Styrene	104	12.669	12.669	0.000	95	1103803	50.0	48.6	
84 Bromoform	173	12.681	12.681	0.000	97	116282	50.0	49.0	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1965854	50.0	47.9	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	522155	50.0	45.9	
87 Bromobenzene	156	13.273	13.273	0.000	96	354281	50.0	48.5	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2355953	50.0	47.5	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	93	234749	50.0	42.9	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	1325574	50.0	46.9	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1454792	50.0	47.9	
92 1,2,3-Trichloropropane	110	13.498	13.498	0.000	80	65400	50.0	43.6	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	92	71219	50.0	43.4	
94 Cyclohexanone	55	13.533	13.533	0.000	70	54073	500.0	390.1	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	1317789	50.0	46.7	
96 tert-Butylbenzene	119	13.782	13.782	0.000	93	1293291	50.0	48.0	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	1449131	50.0	48.1	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	2043369	50.0	48.0	
99 4-Isopropyltoluene	119	14.066	14.066	0.000	97	1610321	50.0	49.8	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	696307	50.0	47.4	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	425103	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.208	0.000	91	654024	50.0	47.1	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1269018	50.0	46.5	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	425886	50.0	52.8	
120 Benzyl chloride	126	14.432	14.432	0.000	89	85007	50.0	52.5	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	97	572989	50.0	47.2	
105 1,2-Dibromo-3-Chloropropan	157	15.273	15.273	0.000	86	30436	50.0	43.2	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	60	144113	50.0	60.7	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	97	488714	50.0	51.8	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	97	218432	50.0	51.0	
109 1,2,4-Trichlorobenzene	180	15.841	15.841	0.000	95	369527	50.0	51.2	
110 Naphthalene	128	16.113	16.113	0.000	97	609192	50.0	46.6	
111 1,2,3-Trichlorobenzene	180	16.267	16.267	0.000	95	298429	50.0	50.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

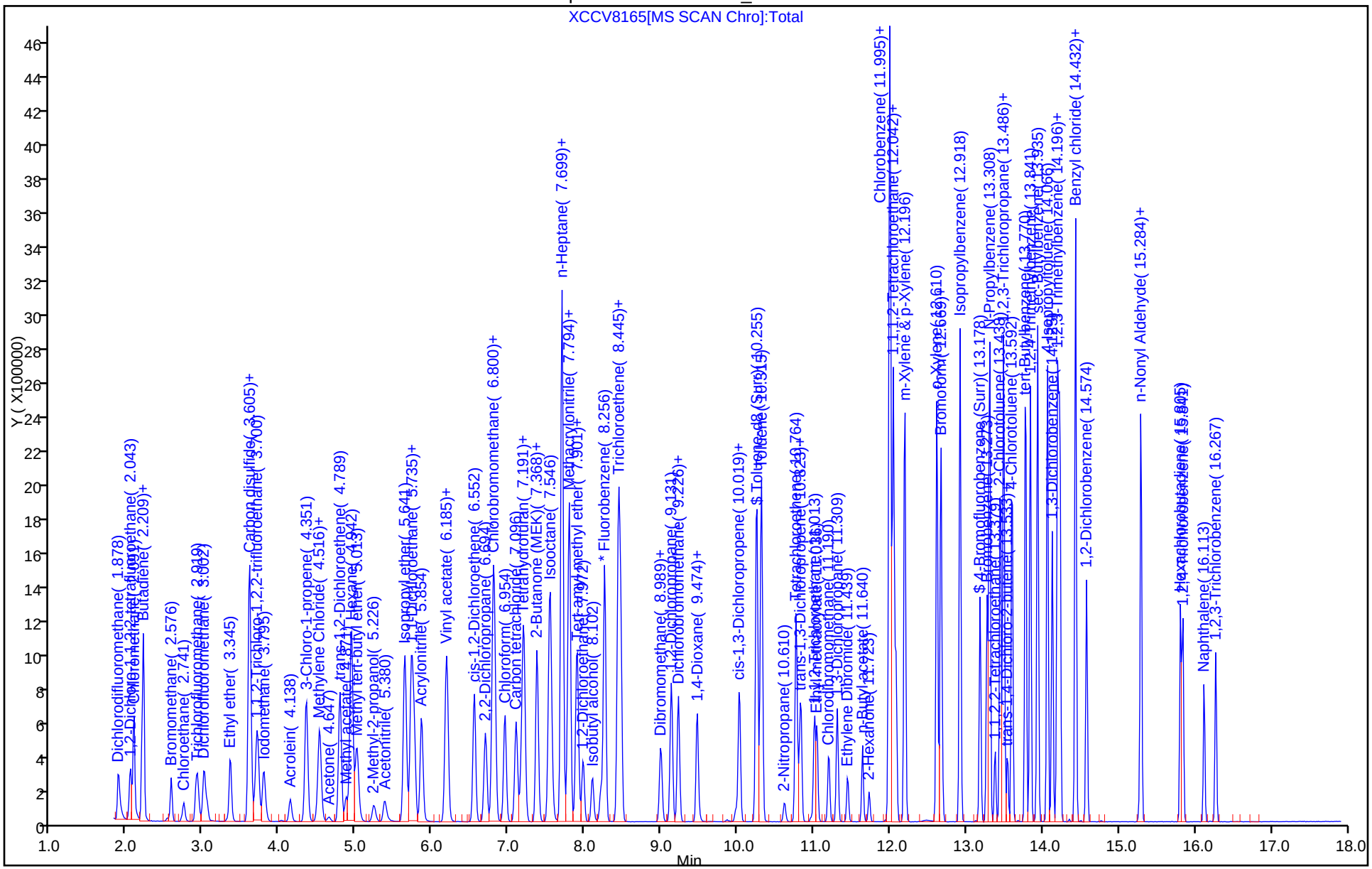
8260 NewWkMix_00230	Amount Added: 10.00	Units: uL	
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:04:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XCCV8165.D

Injection Date:	01-Aug-2017 15:49:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCV 160-320257/3 Calibration Date: 08/01/2017 15:49

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XCCV8165.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	0.2851	0.2517	0.1000	44.1	50.0	-11.7	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1386	0.1218	0.0100	43.9	50.0	-12.2	20.0
Chloromethane	Ave	0.3961	0.3532	0.1000	44.6	50.0	-10.8	20.0
Vinyl chloride	Ave	0.2902	0.2638	0.1000	45.5	50.0	-9.1	20.0
Butadiene	Ave	0.2344	0.2176	0.0100	46.4	50.0	-7.2	20.0
Bromomethane	Ave	0.0892	0.0920*	0.1000	51.6	50.0	3.1	20.0
Chloroethane	Ave	0.0917	0.0785*	0.1000	42.8	50.0	-14.5	20.0
Trichlorofluoromethane	Ave	0.2097	0.2312	0.1000	55.1	50.0	10.3	20.0
Dichlorofluoromethane	Ave	0.2267	0.2384	0.0100	52.6	50.0	5.2	20.0
Ethyl ether	Ave	0.1169	0.1097	0.0100	46.9	50.0	-6.1	20.0
1,1-Dichloroethene	Ave	0.2777	0.2507	0.1000	45.1	50.0	-9.7	20.0
Carbon disulfide	Ave	0.9642	0.8554	0.1000	44.4	50.0	-11.3	20.0
Ethanol	Ave	0.0014	0.0012*	0.0100	1690	2000	-15.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1866	0.1737	0.1000	46.5	50.0	-6.9	20.0
Iodomethane	Ave	0.3400	0.3146	0.0100	46.3	50.0	-7.5	20.0
Acrolein	Ave	0.0188	0.0186	0.0010	248	250	-0.9	20.0
3-Chloro-1-propene	Ave	0.2872	0.2800	0.0100	48.7	50.0	-2.5	20.0
Isopropyl alcohol	Qua		0.0062*	0.0100	459	500	-8.2	20.0
Methylene Chloride	Ave	0.2540	0.2234	0.1000	44.0	50.0	-12.1	20.0
Acetone	Lin		0.0311*	0.1000	41.2	50.0	-17.6	20.0
trans-1,2-Dichloroethene	Ave	0.2931	0.2624	0.1000	44.8	50.0	-10.5	20.0
Methyl acetate	Ave	0.0075	0.0066*	0.1000	218	250	-12.6	20.0
Hexane	Ave	0.0934	0.0861	0.0100	46.1	50.0	-7.8	20.0
Methyl tert-butyl ether	Ave	0.4242	0.3772	0.1000	44.5	50.0	-11.1	20.0
2-Methyl-2-propanol	Lin1		0.0092*	0.0100	410	500	-18.1	20.0
Acetonitrile	Ave	0.0143	0.0133	0.0010	464	500	-7.3	20.0
Isopropyl ether	Ave	0.7615	0.7280	0.0100	47.8	50.0	-4.4	20.0
2-Chloro-1,3-butadiene	Ave	0.4796	0.4601	0.0100	48.0	50.0	-4.1	20.0
1,1-Dichloroethane	Ave	0.5058	0.4511	0.2000	44.6	50.0	-10.8	20.0
Acrylonitrile	Ave	0.0449	0.0406	0.0100	453	500	-9.4	20.0
Tert-butyl ethyl ether	Ave	0.5565	0.5705	0.0100	51.3	50.0	2.5	20.0
Vinyl acetate	Ave	0.3066	0.3482	0.0100	56.8	50.0	13.6	20.0
cis-1,2-Dichloroethene	Ave	0.2872	0.2670	0.1000	46.5	50.0	-7.0	20.0
2,2-Dichloropropane	Ave	0.2720	0.2559	0.0100	47.0	50.0	-5.9	20.0
Cyclohexane	Ave	0.4834	0.4325	0.1000	44.7	50.0	-10.5	20.0
Bromochloromethane	Ave	0.0870	0.0863	0.0100	49.6	50.0	-0.8	20.0
Chloroform	Ave	0.4309	0.3875	0.2000	45.0	50.0	-10.1	20.0
Carbon tetrachloride	Ave	0.3141	0.2953	0.1000	47.0	50.0	-6.0	20.0
Ethyl acetate	Lin1		0.0150	0.0100	88.4	100	-11.6	20.0
1,1,1-Trichloroethane	Ave	0.3787	0.3549	0.1000	46.9	50.0	-6.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCV 160-320257/3 Calibration Date: 08/01/2017 15:49

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XCCV8165.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-Dichloropropene	Ave	0.4009	0.3644	0.0100	45.4	50.0	-9.1	20.0
2-Butanone (MEK)	Ave	0.0545	0.0495*	0.1000	45.4	50.0	-9.2	20.0
Isooctane	Ave	1.315	1.193	0.0100	45.4	50.0	-9.3	20.0
Benzene	Ave	1.139	1.001	0.5000	44.0	50.0	-12.1	20.0
n-Heptane	Ave	0.5425	0.5042	0.0100	46.5	50.0	-7.1	20.0
Propionitrile	Ave	0.0161	0.0145	0.0010	449	500	-10.1	20.0
Methacrylonitrile	Ave	0.0751	0.0689	0.0100	458	500	-8.3	20.0
Tert-amyl methyl ether	Ave	0.3956	0.4034	0.0100	51.0	50.0	2.0	20.0
1,2-Dichloroethane	Ave	0.2313	0.2135	0.1000	46.2	50.0	-7.7	20.0
Isobutyl alcohol	Lin1		0.0028	0.0010	1060	1250	-14.8	20.0
Methylcyclohexane	Ave	0.4753	0.4389	0.1000	46.2	50.0	-7.7	20.0
Trichloroethene	Ave	0.2939	0.2601	0.2000	44.2	50.0	-11.5	20.0
n-Butanol	Lin1		0.0028*	0.0100	992	1250	-20.6*	20.0
Dibromomethane	Ave	0.0945	0.0907	0.0100	48.0	50.0	-4.0	20.0
1,2-Dichloropropane	Ave	0.2517	0.2347	0.1000	46.6	50.0	-6.8	20.0
Bromodichloromethane	Ave	0.2705	0.2648	0.2000	49.0	50.0	-2.1	20.0
Ethyl acrylate	Ave	0.1598	0.1506	0.0100	47.1	50.0	-5.8	20.0
Methyl methacrylate	Ave	0.0877	0.0831	0.0100	94.7	100	-5.3	20.0
1,4-Dioxane	Ave	0.0012	0.0011	0.0010	936	1000	-6.4	20.0
cis-1,3-Dichloropropene	Ave	0.3187	0.3248	0.2000	50.9	50.0	1.9	20.0
Toluene	Ave	1.145	1.050	0.4000	45.9	50.0	-8.3	20.0
2-Nitropropane	QuaF		0.0454	0.0100	94.4	100	-5.6	20.0
Tetrachloroethene	Ave	0.3386	0.3218	0.2000	47.5	50.0	-5.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1890	0.1677	0.1000	44.4	50.0	-11.3	20.0
trans-1,3-Dichloropropene	Ave	0.4130	0.4057	0.1000	49.1	50.0	-1.8	20.0
1,1,2-Trichloroethane	Ave	0.2209	0.1885	0.1000	42.7	50.0	-14.7	20.0
Ethyl methacrylate	Lin1		0.2824	0.0100	40.0	50.0	-20.0	20.0
Dibromochloromethane	Ave	0.2470	0.2402	0.1000	48.6	50.0	-2.8	20.0
1,3-Dichloropropane	Ave	0.4659	0.4106	0.0100	44.1	50.0	-11.9	20.0
1,2-Dibromoethane	Lin1		0.2004	0.1000	42.5	50.0	-15.0	20.0
n-Butyl acetate	QuaF		0.2964	0.0100	43.2	50.0	-13.5	20.0
2-Hexanone	Lin1		0.1196	0.1000	38.7	50.0	-22.7*	20.0
1-Chlorohexane	Ave	0.7493	0.7073	0.0100	47.2	50.0	-5.6	20.0
Chlorobenzene	Ave	1.059	0.9823	0.5000	46.4	50.0	-7.3	20.0
Ethylbenzene	Ave	2.156	1.951	0.1000	45.2	50.0	-9.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2995	0.2866	0.0100	47.9	50.0	-4.3	20.0
m,p-Xylenes	Ave	0.7659	0.7205	0.1000	47.0	50.0	-5.9	20.0
o-Xylene	Ave	0.6996	0.6828	0.3000	48.8	50.0	-2.4	20.0
Styrene	Ave	1.063	1.034	0.3000	48.6	50.0	-2.8	20.0
Bromoform	Ave	0.2790	0.2735	0.1000	49.0	50.0	-2.0	20.0
Isopropylbenzene	Ave	4.824	4.624	0.1000	47.9	50.0	-4.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCV 160-320257/3 Calibration Date: 08/01/2017 15:49

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XCCV8165.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
Bromobenzene	Ave	0.8599	0.8334	0.0100	48.5	50.0	-3.1	20.0
N-Propylbenzene	Ave	5.829	5.542	0.0100	47.5	50.0	-4.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6439	0.5522	0.3000	42.9	50.0	-14.2	20.0
2-Chlorotoluene	Ave	3.324	3.118	0.0100	46.9	50.0	-6.2	20.0
1,3,5-Trimethylbenzene	Ave	3.571	3.422	0.0100	47.9	50.0	-4.2	20.0
1,2,3-Trichloropropane	Ave	0.1764	0.1539	0.0100	43.6	50.0	-12.8	20.0
Cyclohexanone	Lin1		0.0127	0.0010	390	500	-22.0*	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1675	0.0100	43.4	50.0	-13.1	20.0
4-Chlorotoluene	Ave	3.318	3.100	0.0100	46.7	50.0	-6.6	20.0
tert-Butylbenzene	Ave	3.170	3.042	0.0100	48.0	50.0	-4.0	20.0
1,2,4-Trimethylbenzene	Ave	3.547	3.409	0.0100	48.1	50.0	-3.9	20.0
sec-Butylbenzene	Ave	5.003	4.807	0.0100	48.0	50.0	-3.9	20.0
p-Isopropyltoluene	Ave	3.806	3.788	0.0100	49.8	50.0	-0.5	20.0
1,3-Dichlorobenzene	Ave	1.730	1.638	0.6000	47.4	50.0	-5.3	20.0
1,4-Dichlorobenzene	Ave	1.633	1.539	0.5000	47.1	50.0	-5.8	20.0
1,2,3-Trimethylbenzene	Ave	3.207	2.985	0.0100	46.5	50.0	-6.9	20.0
Benzyl chloride	Lin1		0.2000	0.0100	52.5	50.0	5.0	20.0
n-Butylbenzene	Ave	0.9491	1.002	0.0100	52.8	50.0	5.6	20.0
1,2-Dichlorobenzene	Ave	1.427	1.348	0.4000	47.2	50.0	-5.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0829	0.0716	0.0500	43.2	50.0	-13.6	20.0
1,3,5-Trichlorobenzene	Ave	1.109	1.150	0.0100	51.8	50.0	3.7	20.0
n-Nonyl Aldehyde	Qua		0.3390	0.0100	60.7	50.0	21.3*	20.0
Hexachlorobutadiene	Ave	0.5039	0.5138	0.0100	51.0	50.0	2.0	20.0
1,2,4-Trichlorobenzene	Ave	0.8494	0.8693	0.2000	51.2	50.0	2.3	20.0
Naphthalene	Ave	1.536	1.433	0.0100	46.6	50.0	-6.7	20.0
1,2,3-Trichlorobenzene	Ave	0.7001	0.7020	0.0100	50.1	50.0	0.3	20.0
Dibromofluoromethane (Surr)	Ave	0.1936	0.1942	0.0100	50.2	50.0	0.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1824	0.1797	0.0100	49.2	50.0	-1.5	20.0
Toluene-d8 (Surr)	Ave	1.599	1.542	0.0100	48.2	50.0	-3.6	20.0
4-Bromofluorobenzene (Surr)	Ave	1.338	1.228	0.0100	45.9	50.0	-8.2	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XCCV8165.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Aug-2017 15:49:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-003
Misc. Info.: CCVIS
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:04:47 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:04:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.878	0.000	99	442361	50.0	44.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	214016	50.0	43.9	
3 Chloromethane	50	2.091	2.091	0.000	99	620730	50.0	44.6	
4 Vinyl chloride	62	2.197	2.197	0.000	98	463654	50.0	45.5	
121 Butadiene	39	2.209	2.209	0.000	89	382374	50.0	46.4	
5 Bromomethane	94	2.576	2.576	0.000	92	161690	50.0	51.6	
6 Chloroethane	64	2.741	2.741	0.000	98	137879	50.0	42.8	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	406409	50.0	55.1	
122 Dichlorofluoromethane	67	3.002	3.002	0.000	97	419072	50.0	52.6	
8 Ethyl ether	74	3.345	3.345	0.000	93	192825	50.0	46.9	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	96	440647	50.0	45.1	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1503390	50.0	44.4	
11 Ethanol	45	3.605	3.605	0.000	25	85315	2000.0	1691.6	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	305230	50.0	46.5	
13 Iodomethane	142	3.795	3.795	0.000	97	552872	50.0	46.3	
14 Acrolein	56	4.138	4.138	0.000	100	163720	250.0	247.8	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	492046	50.0	48.7	
16 Isopropyl alcohol	45	4.493	4.493	0.000	97	109520	500.0	459.1	
17 Methylene Chloride	84	4.516	4.516	0.000	95	392555	50.0	44.0	
18 Acetone	43	4.647	4.647	0.000	100	54657	50.0	41.2	
19 trans-1,2-Dichloroethene	96	4.789	4.789	0.000	98	461221	50.0	44.8	
20 Methyl acetate	74	4.871	4.871	0.000	98	57869	250.0	218.5	
21 Hexane	86	4.942	4.942	0.000	88	151253	50.0	46.1	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	94	662915	50.0	44.5	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	96	160774	500.0	409.7	
24 Acetonitrile	41	5.380	5.380	0.000	99	233789	500.0	463.7	
25 Isopropyl ether	45	5.641	5.641	0.000	95	1279580	50.0	47.8	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	92	808652	50.0	48.0	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	96	792768	50.0	44.6	
29 Acrylonitrile	53	5.854	5.854	0.000	99	714333	500.0	453.0	

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	6.185	6.185	0.000	98	1002759	50.0	51.3	
31 Vinyl acetate	43	6.197	6.197	0.000	97	612016	50.0	56.8	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	80	469257	50.0	46.5	
33 2,2-Dichloropropane	77	6.694	6.694	0.000	93	449733	50.0	47.0	
34 Cyclohexane	84	6.800	6.800	0.000	90	760183	50.0	44.7	
35 Chlorobromomethane	128	6.824	6.824	0.000	96	151656	50.0	49.6	
36 Chloroform	83	6.954	6.954	0.000	94	681018	50.0	45.0	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	518995	50.0	47.0	
38 Tetrahydrofuran	71	7.155	7.155	0.000	91	39447	100.0	87.2	
39 Ethyl acetate	45	7.167	7.167	0.000	99	52563	100.0	88.4	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.191	0.000	92	341377	50.0	50.2	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	623763	50.0	46.9	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	97	640458	50.0	45.4	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	100	86941	50.0	45.4	
124 Isooctane	57	7.546	7.546	0.000	96	2095896	50.0	45.4	
117 n-Heptane	43	7.699	7.699	0.000	73	886213	50.0	46.5	
44 Benzene	78	7.699	7.699	0.000	96	1759510	50.0	44.0	
45 Propionitrile	54	7.770	7.770	0.000	95	254267	500.0	449.3	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	1210871	500.0	458.4	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	88	315789	50.0	49.2	
48 Tert-amyl methyl ether	73	7.901	7.901	0.000	96	709032	50.0	51.0	
49 1,2-Dichloroethane	62	7.972	7.972	0.000	96	375236	50.0	46.2	
50 Isobutyl alcohol	42	8.102	8.102	0.000	95	124233	1250.0	1064.9	
* 51 Fluorobenzene	96	8.256	8.256	0.000	99	1757567	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.433	0.000	91	771301	50.0	46.2	
53 Trichloroethene	95	8.469	8.469	0.000	98	457214	50.0	44.2	
54 n-Butanol	56	8.989	8.989	0.000	91	124128	1250.0	992.3	
55 Dibromomethane	93	9.001	9.001	0.000	95	159387	50.0	48.0	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	96	412521	50.0	46.6	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	264660	50.0	47.1	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	465477	50.0	49.0	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	291951	100.0	94.7	
59 1,4-Dioxane	88	9.498	9.498	0.000	89	38330	1000.0	936.1	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	91	38712	NC	NC	
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	95	570824	50.0	50.9	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1646485	50.0	48.2	
63 Toluene	92	10.315	10.315	0.000	98	1121388	50.0	45.9	
64 2-Nitropropane	43	10.610	10.610	0.000	98	96893	100.0	94.4	
65 Tetrachloroethene	164	10.764	10.764	0.000	94	343524	50.0	47.5	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.800	0.000	95	179027	50.0	44.4	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	94	433100	50.0	49.1	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	89	201248	50.0	42.7	
69 Ethyl methacrylate	69	11.036	11.036	0.000	90	301447	50.0	40.0	
70 Chlorodibromomethane	129	11.202	11.202	0.000	90	256477	50.0	48.6	
71 1,3-Dichloropropane	76	11.309	11.309	0.000	92	438352	50.0	44.1	
72 Ethylene Dibromide	107	11.439	11.439	0.000	98	213944	50.0	42.5	
118 n-Butyl acetate	43	11.640	11.640	0.000	99	316431	50.0	43.2	
74 2-Hexanone	43	11.723	11.723	0.000	95	127734	50.0	38.7	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	1067648	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	88	755145	50.0	47.2	
77 Chlorobenzene	112	12.007	12.007	0.000	94	1048769	50.0	46.4	
78 Ethylbenzene	91	12.042	12.042	0.000	96	2082492	50.0	45.2	

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	12.078	12.078	0.000	95	306034	50.0	47.9	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	97	769273	50.0	47.0	
82 o-Xylene	106	12.610	12.610	0.000	97	728947	50.0	48.8	
83 Styrene	104	12.669	12.669	0.000	95	1103803	50.0	48.6	
84 Bromoform	173	12.681	12.681	0.000	97	116282	50.0	49.0	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1965854	50.0	47.9	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	522155	50.0	45.9	
87 Bromobenzene	156	13.273	13.273	0.000	96	354281	50.0	48.5	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2355953	50.0	47.5	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	93	234749	50.0	42.9	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	1325574	50.0	46.9	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1454792	50.0	47.9	
92 1,2,3-Trichloropropane	110	13.498	13.498	0.000	80	65400	50.0	43.6	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	92	71219	50.0	43.4	
94 Cyclohexanone	55	13.533	13.533	0.000	70	54073	500.0	390.1	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	1317789	50.0	46.7	
96 tert-Butylbenzene	119	13.782	13.782	0.000	93	1293291	50.0	48.0	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	1449131	50.0	48.1	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	2043369	50.0	48.0	
99 4-Isopropyltoluene	119	14.066	14.066	0.000	97	1610321	50.0	49.8	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	696307	50.0	47.4	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	425103	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.208	0.000	91	654024	50.0	47.1	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1269018	50.0	46.5	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	425886	50.0	52.8	
120 Benzyl chloride	126	14.432	14.432	0.000	89	85007	50.0	52.5	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	97	572989	50.0	47.2	
105 1,2-Dibromo-3-Chloropropan	157	15.273	15.273	0.000	86	30436	50.0	43.2	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	60	144113	50.0	60.7	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	97	488714	50.0	51.8	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	97	218432	50.0	51.0	
109 1,2,4-Trichlorobenzene	180	15.841	15.841	0.000	95	369527	50.0	51.2	
110 Naphthalene	128	16.113	16.113	0.000	97	609192	50.0	46.6	
111 1,2,3-Trichlorobenzene	180	16.267	16.267	0.000	95	298429	50.0	50.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

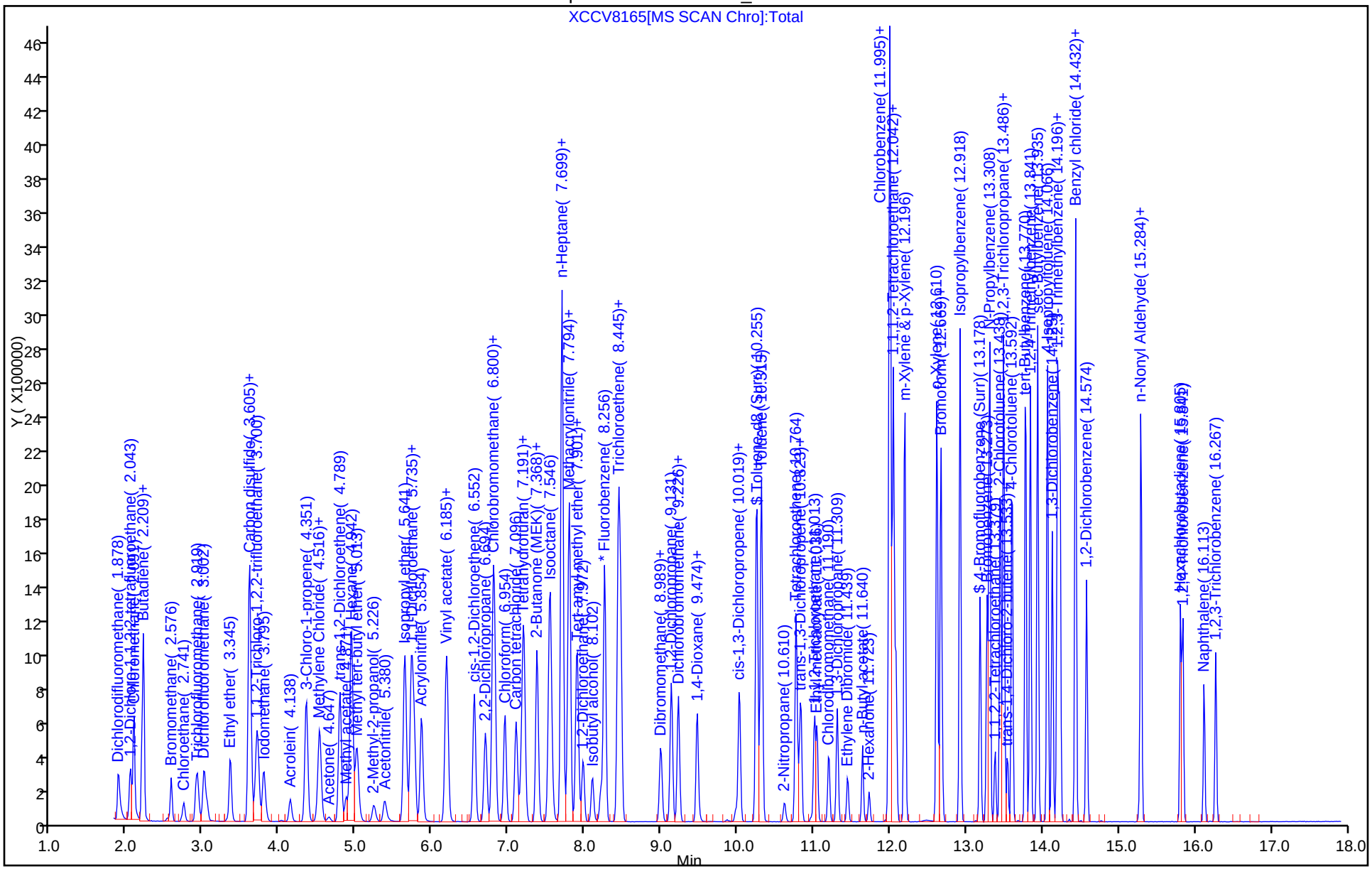
8260 NewWkMix_00230	Amount Added: 10.00	Units: uL	
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:04:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XCCV8165.D

Injection Date:	01-Aug-2017 15:49:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCVC 160-320257/19 Calibration Date: 08/01/2017 23:52

Instrument ID: VMSX Calib Start Date: 05/03/2017 21:27

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 05/04/2017 00:21

Lab File ID: XCCV8181.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
2-Chloroethyl vinyl ether	Lin1		0.0234	0.0100		50.0		50.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XCCV8181.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 01-Aug-2017 23:52:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-019
Misc. Info.: CCVC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:53:17 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:53:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.878	0.000	99	490433	50.0	53.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	98	223193	50.0	50.1	
3 Chloromethane	50	2.091	2.091	0.000	99	650293	50.0	51.1	
4 Vinyl chloride	62	2.197	2.197	0.000	98	507908	50.0	54.4	
121 Butadiene	39	2.209	2.209	0.000	90	424486	50.0	56.3	
5 Bromomethane	94	2.576	2.576	0.000	91	181614	50.0	63.3	
6 Chloroethane	64	2.741	2.741	0.000	98	156498	50.0	53.1	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	99	422747	50.0	62.7	
122 Dichlorofluoromethane	67	3.014	3.014	0.000	97	440818	50.0	60.5	
8 Ethyl ether	74	3.357	3.357	0.000	92	192245	50.0	51.1	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	95	450477	50.0	50.4	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1592330	50.0	51.4	
11 Ethanol	45	3.605	3.605	0.000	25	89418	2000.0	1938.0	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	94	311931	50.0	52.0	
13 Iodomethane	142	3.795	3.795	0.000	96	547458	50.0	50.1	
14 Acrolein	56	4.138	4.138	0.000	99	156763	250.0	259.4	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	487353	50.0	52.8	
16 Isopropyl alcohol	45	4.493	4.493	0.000	97	106086	500.0	484.7	
17 Methylene Chloride	84	4.528	4.528	0.000	96	394602	50.0	48.3	
18 Acetone	43	4.647	4.647	0.000	99	54071	50.0	44.7	
19 trans-1,2-Dichloroethene	96	4.789	4.789	0.000	98	464785	50.0	49.3	
20 Methyl acetate	74	4.871	4.871	0.000	98	59841	250.0	246.9	
21 Hexane	86	4.942	4.942	0.000	88	159791	50.0	53.2	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	94	648472	50.0	47.5	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	95	156416	500.0	435.2	
24 Acetonitrile	41	5.380	5.380	0.000	99	235805	500.0	511.3	
25 Isopropyl ether	45	5.641	5.641	0.000	95	1270253	50.0	51.9	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	92	817765	50.0	53.0	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	95	802960	50.0	49.4	
S 26 1,2-Dichloroethene, Total	96				0			99.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	99	712419	500.0	493.9	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	98	983650	50.0	55.0	
31 Vinyl acetate	43	6.197	6.197	0.000	98	607793	50.0	61.7	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	80	466304	50.0	50.5	
33 2,2-Dichloropropane	77	6.705	6.705	0.000	93	427700	50.0	48.9	
34 Cyclohexane	84	6.800	6.800	0.000	91	783553	50.0	50.4	
35 Chlorobromomethane	128	6.824	6.824	0.000	94	149519	50.0	53.4	
36 Chloroform	83	6.954	6.954	0.000	94	675691	50.0	48.8	
37 Carbon tetrachloride	117	7.108	7.108	0.000	98	504823	50.0	50.0	
38 Tetrahydrofuran	71	7.167	7.167	0.000	92	39869	100.0	96.3	
39 Ethyl acetate	45	7.179	7.179	0.000	99	53806	100.0	98.6	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	93	314380	50.0	50.5	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	620016	50.0	50.9	
42 1,1-Dichloropropene	75	7.380	7.380	0.000	96	637028	50.0	49.4	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	100	86341	50.0	49.3	
124 Isooctane	57	7.546	7.546	0.000	96	2167799	50.0	51.3	
117 n-Heptane	43	7.699	7.699	0.000	75	923548	50.0	52.9	
44 Benzene	78	7.699	7.699	0.000	96	1765178	50.0	48.2	
45 Propionitrile	54	7.770	7.770	0.000	94	254599	500.0	491.7	
46 Methacrylonitrile	41	7.794	7.794	0.000	93	1241200	500.0	513.6	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	89	296651	50.0	50.6	
48 Tert-amyl methyl ether	73	7.901	7.901	0.000	96	696457	50.0	54.7	
49 1,2-Dichloroethane	62	7.983	7.983	0.000	97	373622	50.0	50.2	
50 Isobutyl alcohol	42	8.102	8.102	0.000	94	119095	1250.0	1115.0	
* 51 Fluorobenzene	96	8.267	8.267	0.000	99	1607821	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.445	0.000	91	790858	50.0	51.7	
53 Trichloroethene	95	8.469	8.469	0.000	98	457094	50.0	48.4	
54 n-Butanol	56	8.989	8.989	0.000	88	121817	1250.0	1059.0	
55 Dibromomethane	93	9.001	9.001	0.000	97	159298	50.0	52.4	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	97	415044	50.0	51.3	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	264261	50.0	51.4	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	456731	50.0	52.5	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	298880	100.0	106.0	
59 1,4-Dioxane	88	9.498	9.498	0.000	83	38970	1000.0	1040.4	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	90	37665	NC	NC	
61 cis-1,3-Dichloropropene	75	10.031	10.031	0.000	95	549262	50.0	53.6	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1526866	50.0	48.0	
63 Toluene	92	10.315	10.315	0.000	98	1117110	50.0	49.0	
64 2-Nitropropane	43	10.622	10.622	0.000	97	94578	100.0	98.3	
65 Tetrachloroethene	164	10.776	10.776	0.000	96	342393	50.0	50.8	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	96	183067	50.0	48.7	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	94	416849	50.0	50.7	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	89	203305	50.0	46.2	
69 Ethyl methacrylate	69	11.048	11.048	0.000	83	301944	50.0	42.8	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	243137	50.0	49.5	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	92	437129	50.0	47.1	
72 Ethylene Dibromide	107	11.450	11.450	0.000	99	210554	50.0	44.8	
S 73 1,3-Dichloropropene, Total	75				0			104.3	
118 n-Butyl acetate	43	11.640	11.640	0.000	99	321177	50.0	46.8	
74 2-Hexanone	43	11.723	11.723	0.000	96	126930	50.0	41.1	
* 76 Chlorobenzene-d5	117	11.995	11.995	0.000	87	994992	50.0	50.0	
75 1-Chlorohexane	91	12.007	12.007	0.000	74	727246	50.0	48.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.007	12.007	0.000	95	1047643	50.0	49.7	
78 Ethylbenzene	91	12.042	12.042	0.000	96	2108855	50.0	49.1	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	95	299026	50.0	50.2	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	96	773102	50.0	50.7	
82 o-Xylene	106	12.610	12.610	0.000	98	709606	50.0	51.0	
83 Styrene	104	12.669	12.669	0.000	95	1105253	50.0	52.2	
84 Bromoform	173	12.681	12.681	0.000	96	109997	50.0	51.2	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1921374	50.0	51.8	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	470100	50.0	45.7	
87 Bromobenzene	156	13.273	13.273	0.000	95	348620	50.0	52.7	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2317580	50.0	51.7	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	231166	50.0	46.7	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	1280320	50.0	50.1	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1427203	50.0	51.9	
92 1,2,3-Trichloropropane	110	13.498	13.498	0.000	80	63006	50.0	46.4	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	85	61230	50.0	41.4	
94 Cyclohexanone	55	13.545	13.545	0.000	75	48203	500.0	384.7	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	1272536	50.0	49.9	
96 tert-Butylbenzene	119	13.782	13.782	0.000	93	1286224	50.0	52.7	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	1407581	50.0	51.6	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	2022587	50.0	52.5	
99 4-Isopropyltoluene	119	14.066	14.066	0.000	97	1568244	50.0	53.6	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	680603	50.0	51.1	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	384660	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.208	0.000	92	640012	50.0	50.9	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1233859	50.0	50.0	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	404026	50.0	55.3	
120 Benzyl chloride	126	14.432	14.432	0.000	89	72815	50.0	49.8	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	553248	50.0	50.4	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	85	29258	50.0	45.9	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	59	129083	50.0	60.2	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	97	448359	50.0	52.6	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	95	202860	50.0	52.3	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	337131	50.0	51.6	
110 Naphthalene	128	16.113	16.113	0.000	97	565547	50.0	47.8	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	272822	50.0	50.7	
S 112 Xylenes, Total	106				0			101.7	
S 113 Trihalomethanes, Total	1				0			202.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

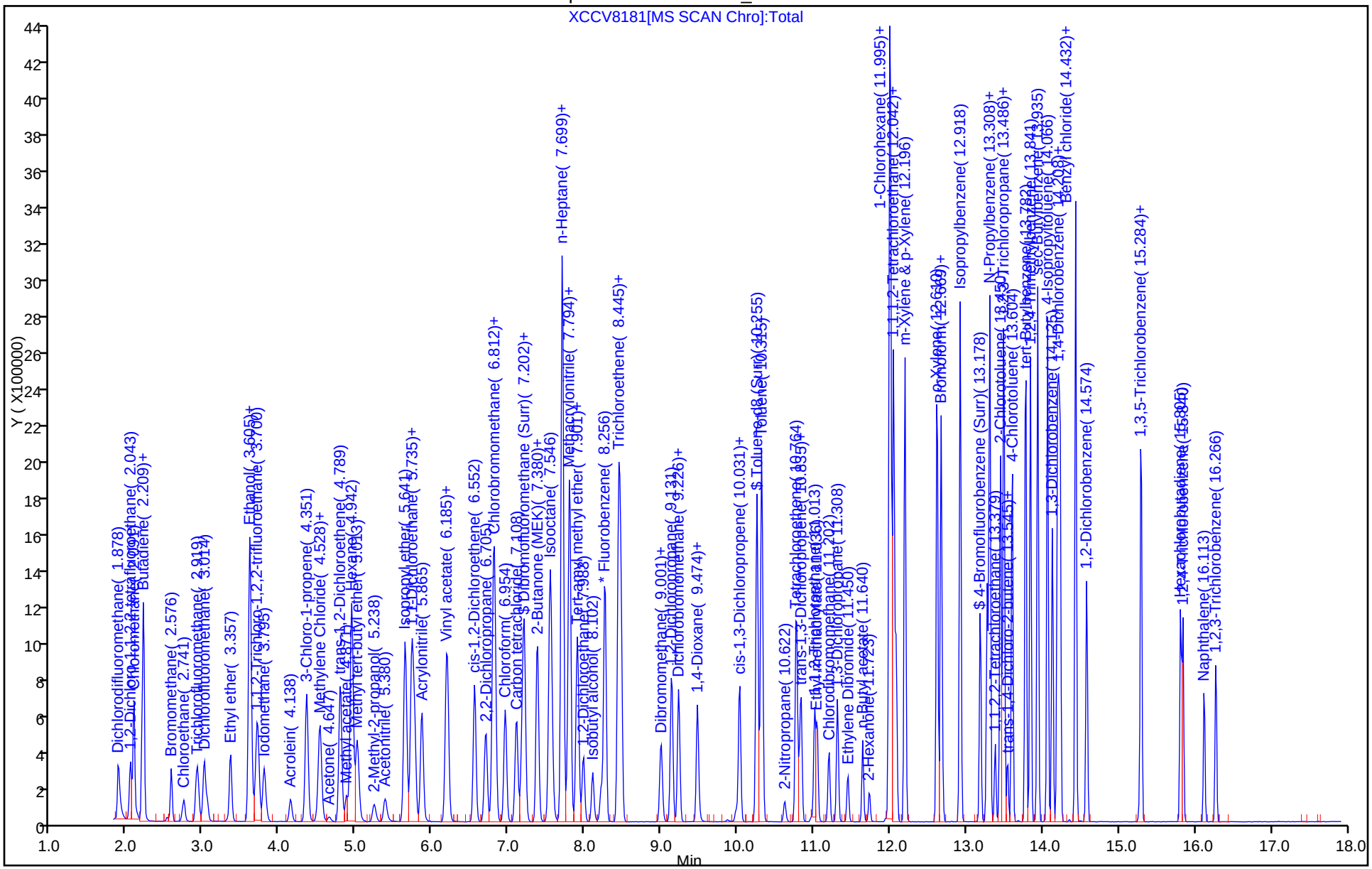
8260 NewWkMix_00230	Amount Added: 10.00	Units: uL	
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:53:19 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XCCV8181.D

Injection Date:	01-Aug-2017 23:52:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	CCVC			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCVC 160-320257/19 Calibration Date: 08/01/2017 23:52

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XCCV8181.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	0.2851	0.3050	0.1000	53.5	50.0	7.0	50.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1386	0.1388	0.0100	50.1	50.0	0.1	50.0
Chloromethane	Ave	0.3961	0.4045	0.1000	51.1	50.0	2.1	50.0
Vinyl chloride	Ave	0.2902	0.3159	0.1000	54.4	50.0	8.9	50.0
Butadiene	Ave	0.2344	0.2640	0.0100	56.3	50.0	12.6	50.0
Bromomethane	Ave	0.0892	0.1130	0.1000	63.3	50.0	26.6	50.0
Chloroethane	Ave	0.0917	0.0973*	0.1000	53.1	50.0	6.1	50.0
Trichlorofluoromethane	Ave	0.2097	0.2629	0.1000	62.7	50.0	25.4	50.0
Dichlorofluoromethane	Ave	0.2267	0.2742	0.0100	60.5	50.0	21.0	50.0
Ethyl ether	Ave	0.1169	0.1196	0.0100	51.1	50.0	2.3	50.0
1,1-Dichloroethene	Ave	0.2777	0.2802	0.1000	50.4	50.0	0.9	50.0
Carbon disulfide	Ave	0.9642	0.9904	0.1000	51.4	50.0	2.7	50.0
Ethanol	Ave	0.0014	0.0014*	0.0100	1940	2000	-3.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1866	0.1940	0.1000	52.0	50.0	4.0	50.0
Iodomethane	Ave	0.3400	0.3405	0.0100	50.1	50.0	0.2	50.0
Acrolein	Ave	0.0188	0.0195	0.0010	259	250	3.8	50.0
3-Chloro-1-propene	Ave	0.2872	0.3031	0.0100	52.8	50.0	5.5	50.0
Isopropyl alcohol	Qua		0.0066*	0.0100	485	500	-3.1	50.0
Methylene Chloride	Ave	0.2540	0.2454	0.1000	48.3	50.0	-3.4	50.0
Acetone	Lin		0.0336*	0.1000	44.7	50.0	-10.5	50.0
trans-1,2-Dichloroethene	Ave	0.2931	0.2891	0.1000	49.3	50.0	-1.4	50.0
Methyl acetate	Ave	0.0075	0.0074*	0.1000	247	250	-1.2	50.0
Hexane	Ave	0.0934	0.0994	0.0100	53.2	50.0	6.4	50.0
Methyl tert-butyl ether	Ave	0.4242	0.4033	0.1000	47.5	50.0	-4.9	50.0
2-Methyl-2-propanol	Lin1		0.0097*	0.0100	435	500	-13.0	50.0
Acetonitrile	Ave	0.0143	0.0147	0.0010	511	500	2.3	50.0
Isopropyl ether	Ave	0.7615	0.7901	0.0100	51.9	50.0	3.8	50.0
2-Chloro-1,3-butadiene	Ave	0.4796	0.5086	0.0100	53.0	50.0	6.0	50.0
1,1-Dichloroethane	Ave	0.5058	0.4994	0.2000	49.4	50.0	-1.3	50.0
Acrylonitrile	Ave	0.0449	0.0443	0.0100	494	500	-1.2	50.0
Tert-butyl ethyl ether	Ave	0.5565	0.6118	0.0100	55.0	50.0	9.9	50.0
Vinyl acetate	Ave	0.3066	0.3780	0.0100	61.7	50.0	23.3	50.0
cis-1,2-Dichloroethene	Ave	0.2872	0.2900	0.1000	50.5	50.0	1.0	50.0
2,2-Dichloropropane	Ave	0.2720	0.2660	0.0100	48.9	50.0	-2.2	50.0
Cyclohexane	Ave	0.4834	0.4873	0.1000	50.4	50.0	0.8	50.0
Bromochloromethane	Ave	0.0870	0.0930	0.0100	53.4	50.0	6.9	50.0
Chloroform	Ave	0.4309	0.4203	0.2000	48.8	50.0	-2.5	50.0
Carbon tetrachloride	Ave	0.3141	0.3140	0.1000	50.0	50.0	-0.0	50.0
Ethyl acetate	Lin1		0.0167	0.0100	98.6	100	-1.4	50.0
1,1,1-Trichloroethane	Ave	0.3787	0.3856	0.1000	50.9	50.0	1.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCVC 160-320257/19 Calibration Date: 08/01/2017 23:52

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XCCV8181.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-Dichloropropene	Ave	0.4009	0.3962	0.0100	49.4	50.0	-1.2	50.0
2-Butanone (MEK)	Ave	0.0545	0.0537*	0.1000	49.3	50.0	-1.4	50.0
Isooctane	Ave	1.315	1.348	0.0100	51.3	50.0	2.6	50.0
Benzene	Ave	1.139	1.098	0.5000	48.2	50.0	-3.6	50.0
n-Heptane	Ave	0.5425	0.5744	0.0100	52.9	50.0	5.9	50.0
Propionitrile	Ave	0.0161	0.0158	0.0010	492	500	-1.7	50.0
Methacrylonitrile	Ave	0.0751	0.0772	0.0100	514	500	2.7	50.0
Tert-amyl methyl ether	Ave	0.3956	0.4332	0.0100	54.7	50.0	9.5	50.0
1,2-Dichloroethane	Ave	0.2313	0.2324	0.1000	50.2	50.0	0.5	50.0
Isobutyl alcohol	Lin1		0.0030	0.0010	1110	1250	-10.8	50.0
Methylcyclohexane	Ave	0.4753	0.4919	0.1000	51.7	50.0	3.5	50.0
Trichloroethene	Ave	0.2939	0.2843	0.2000	48.4	50.0	-3.3	50.0
n-Butanol	Lin1		0.0030*	0.0100	1060	1250	-15.3	50.0
Dibromomethane	Ave	0.0945	0.0991	0.0100	52.4	50.0	4.8	50.0
1,2-Dichloropropane	Ave	0.2517	0.2581	0.1000	51.3	50.0	2.5	50.0
Bromodichloromethane	Ave	0.2705	0.2841	0.2000	52.5	50.0	5.0	50.0
Ethyl acrylate	Ave	0.1598	0.1644	0.0100	51.4	50.0	2.8	50.0
Methyl methacrylate	Ave	0.0877	0.0930	0.0100	106	100	6.0	50.0
1,4-Dioxane	Ave	0.0012	0.0012	0.0010	1040	1000	4.0	50.0
cis-1,3-Dichloropropene	Ave	0.3187	0.3416	0.2000	53.6	50.0	7.2	50.0
Toluene	Ave	1.145	1.123	0.4000	49.0	50.0	-2.0	50.0
2-Nitropropane	QuaF		0.0475	0.0100	98.3	100	-1.7	50.0
Tetrachloroethene	Ave	0.3386	0.3441	0.2000	50.8	50.0	1.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1890	0.1840	0.1000	48.7	50.0	-2.6	50.0
trans-1,3-Dichloropropene	Ave	0.4130	0.4190	0.1000	50.7	50.0	1.4	50.0
1,1,2-Trichloroethane	Ave	0.2209	0.2043	0.1000	46.2	50.0	-7.5	50.0
Ethyl methacrylate	Lin1		0.3035	0.0100	42.8	50.0	-14.4	50.0
Dibromochloromethane	Ave	0.2470	0.2444	0.1000	49.5	50.0	-1.1	50.0
1,3-Dichloropropane	Ave	0.4659	0.4393	0.0100	47.1	50.0	-5.7	50.0
1,2-Dibromoethane	Lin1		0.2116	0.1000	44.8	50.0	-10.3	50.0
n-Butyl acetate	QuaF		0.3228	0.0100	46.8	50.0	-6.5	50.0
2-Hexanone	Lin1		0.1276	0.1000	41.1	50.0	-17.9	50.0
1-Chlorohexane	Ave	0.7493	0.7309	0.0100	48.8	50.0	-2.5	50.0
Chlorobenzene	Ave	1.059	1.053	0.5000	49.7	50.0	-0.6	50.0
Ethylbenzene	Ave	2.156	2.119	0.1000	49.1	50.0	-1.7	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2995	0.3005	0.0100	50.2	50.0	0.3	50.0
m,p-Xylenes	Ave	0.7659	0.7770	0.1000	50.7	50.0	1.5	50.0
o-Xylene	Ave	0.6996	0.7132	0.3000	51.0	50.0	1.9	50.0
Styrene	Ave	1.063	1.111	0.3000	52.2	50.0	4.5	50.0
Bromoform	Ave	0.2790	0.2860	0.1000	51.2	50.0	2.5	50.0
Isopropylbenzene	Ave	4.824	4.995	0.1000	51.8	50.0	3.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCVC 160-320257/19 Calibration Date: 08/01/2017 23:52

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XCCV8181.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
Bromobenzene	Ave	0.8599	0.9063	0.0100	52.7	50.0	5.4	50.0
N-Propylbenzene	Ave	5.829	6.025	0.0100	51.7	50.0	3.4	50.0
1,1,2,2-Tetrachloroethane	Ave	0.6439	0.6010	0.3000	46.7	50.0	-6.7	50.0
2-Chlorotoluene	Ave	3.324	3.328	0.0100	50.1	50.0	0.1	50.0
1,3,5-Trimethylbenzene	Ave	3.571	3.710	0.0100	51.9	50.0	3.9	50.0
1,2,3-Trichloropropane	Ave	0.1764	0.1638	0.0100	46.4	50.0	-7.2	50.0
trans-1,4-Dichloro-2-butene	Lin1		0.1592	0.0100	41.4	50.0	-17.2	50.0
Cyclohexanone	Lin1		0.0125	0.0010	385	500	-23.1	50.0
4-Chlorotoluene	Ave	3.318	3.308	0.0100	49.9	50.0	-0.3	50.0
tert-Butylbenzene	Ave	3.170	3.344	0.0100	52.7	50.0	5.5	50.0
1,2,4-Trimethylbenzene	Ave	3.547	3.659	0.0100	51.6	50.0	3.2	50.0
sec-Butylbenzene	Ave	5.003	5.258	0.0100	52.5	50.0	5.1	50.0
p-Isopropyltoluene	Ave	3.806	4.077	0.0100	53.6	50.0	7.1	50.0
1,3-Dichlorobenzene	Ave	1.730	1.769	0.6000	51.1	50.0	2.3	50.0
1,4-Dichlorobenzene	Ave	1.633	1.664	0.5000	50.9	50.0	1.9	50.0
1,2,3-Trimethylbenzene	Ave	3.207	3.208	0.0100	50.0	50.0	0.0	50.0
Benzyl chloride	Lin1		0.1893	0.0100	49.8	50.0	-0.5	50.0
n-Butylbenzene	Ave	0.9491	1.050	0.0100	55.3	50.0	10.7	50.0
1,2-Dichlorobenzene	Ave	1.427	1.438	0.4000	50.4	50.0	0.8	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.0829	0.0761	0.0500	45.9	50.0	-8.3	50.0
n-Nonyl Aldehyde	Qua		0.3356	0.0100	60.2	50.0	20.5	50.0
1,3,5-Trichlorobenzene	Ave	1.109	1.166	0.0100	52.6	50.0	5.1	50.0
Hexachlorobutadiene	Ave	0.5039	0.5274	0.0100	52.3	50.0	4.7	50.0
1,2,4-Trichlorobenzene	Ave	0.8494	0.8764	0.2000	51.6	50.0	3.2	50.0
Naphthalene	Ave	1.536	1.470	0.0100	47.8	50.0	-4.3	50.0
1,2,3-Trichlorobenzene	Ave	0.7001	0.7093	0.0100	50.7	50.0	1.3	50.0
Dibromofluoromethane (Surr)	Ave	0.1936	0.1955	0.0100	50.5	50.0	1.0	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1824	0.1845	0.0100	50.6	50.0	1.1	50.0
Toluene-d8 (Surr)	Ave	1.599	1.535	0.0100	48.0	50.0	-4.0	50.0
4-Bromofluorobenzene (Surr)	Ave	1.338	1.222	0.0100	45.7	50.0	-8.6	50.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XCCV8181.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 01-Aug-2017 23:52:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-019
Misc. Info.: CCVC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:53:17 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:53:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.878	0.000	99	490433	50.0	53.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	98	223193	50.0	50.1	
3 Chloromethane	50	2.091	2.091	0.000	99	650293	50.0	51.1	
4 Vinyl chloride	62	2.197	2.197	0.000	98	507908	50.0	54.4	
121 Butadiene	39	2.209	2.209	0.000	90	424486	50.0	56.3	
5 Bromomethane	94	2.576	2.576	0.000	91	181614	50.0	63.3	
6 Chloroethane	64	2.741	2.741	0.000	98	156498	50.0	53.1	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	99	422747	50.0	62.7	
122 Dichlorofluoromethane	67	3.014	3.014	0.000	97	440818	50.0	60.5	
8 Ethyl ether	74	3.357	3.357	0.000	92	192245	50.0	51.1	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	95	450477	50.0	50.4	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1592330	50.0	51.4	
11 Ethanol	45	3.605	3.605	0.000	25	89418	2000.0	1938.0	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	94	311931	50.0	52.0	
13 Iodomethane	142	3.795	3.795	0.000	96	547458	50.0	50.1	
14 Acrolein	56	4.138	4.138	0.000	99	156763	250.0	259.4	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	487353	50.0	52.8	
16 Isopropyl alcohol	45	4.493	4.493	0.000	97	106086	500.0	484.7	
17 Methylene Chloride	84	4.528	4.528	0.000	96	394602	50.0	48.3	
18 Acetone	43	4.647	4.647	0.000	99	54071	50.0	44.7	
19 trans-1,2-Dichloroethene	96	4.789	4.789	0.000	98	464785	50.0	49.3	
20 Methyl acetate	74	4.871	4.871	0.000	98	59841	250.0	246.9	
21 Hexane	86	4.942	4.942	0.000	88	159791	50.0	53.2	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	94	648472	50.0	47.5	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	95	156416	500.0	435.2	
24 Acetonitrile	41	5.380	5.380	0.000	99	235805	500.0	511.3	
25 Isopropyl ether	45	5.641	5.641	0.000	95	1270253	50.0	51.9	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	92	817765	50.0	53.0	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	95	802960	50.0	49.4	
S 26 1,2-Dichloroethene, Total	96				0			99.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	99	712419	500.0	493.9	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	98	983650	50.0	55.0	
31 Vinyl acetate	43	6.197	6.197	0.000	98	607793	50.0	61.7	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	80	466304	50.0	50.5	
33 2,2-Dichloropropane	77	6.705	6.705	0.000	93	427700	50.0	48.9	
34 Cyclohexane	84	6.800	6.800	0.000	91	783553	50.0	50.4	
35 Chlorobromomethane	128	6.824	6.824	0.000	94	149519	50.0	53.4	
36 Chloroform	83	6.954	6.954	0.000	94	675691	50.0	48.8	
37 Carbon tetrachloride	117	7.108	7.108	0.000	98	504823	50.0	50.0	
38 Tetrahydrofuran	71	7.167	7.167	0.000	92	39869	100.0	96.3	
39 Ethyl acetate	45	7.179	7.179	0.000	99	53806	100.0	98.6	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	93	314380	50.0	50.5	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	620016	50.0	50.9	
42 1,1-Dichloropropene	75	7.380	7.380	0.000	96	637028	50.0	49.4	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	100	86341	50.0	49.3	
124 Isooctane	57	7.546	7.546	0.000	96	2167799	50.0	51.3	
117 n-Heptane	43	7.699	7.699	0.000	75	923548	50.0	52.9	
44 Benzene	78	7.699	7.699	0.000	96	1765178	50.0	48.2	
45 Propionitrile	54	7.770	7.770	0.000	94	254599	500.0	491.7	
46 Methacrylonitrile	41	7.794	7.794	0.000	93	1241200	500.0	513.6	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	89	296651	50.0	50.6	
48 Tert-amyl methyl ether	73	7.901	7.901	0.000	96	696457	50.0	54.7	
49 1,2-Dichloroethane	62	7.983	7.983	0.000	97	373622	50.0	50.2	
50 Isobutyl alcohol	42	8.102	8.102	0.000	94	119095	1250.0	1115.0	
* 51 Fluorobenzene	96	8.267	8.267	0.000	99	1607821	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.445	0.000	91	790858	50.0	51.7	
53 Trichloroethene	95	8.469	8.469	0.000	98	457094	50.0	48.4	
54 n-Butanol	56	8.989	8.989	0.000	88	121817	1250.0	1059.0	
55 Dibromomethane	93	9.001	9.001	0.000	97	159298	50.0	52.4	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	97	415044	50.0	51.3	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	264261	50.0	51.4	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	456731	50.0	52.5	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	298880	100.0	106.0	
59 1,4-Dioxane	88	9.498	9.498	0.000	83	38970	1000.0	1040.4	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	90	37665	NC	NC	
61 cis-1,3-Dichloropropene	75	10.031	10.031	0.000	95	549262	50.0	53.6	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1526866	50.0	48.0	
63 Toluene	92	10.315	10.315	0.000	98	1117110	50.0	49.0	
64 2-Nitropropane	43	10.622	10.622	0.000	97	94578	100.0	98.3	
65 Tetrachloroethene	164	10.776	10.776	0.000	96	342393	50.0	50.8	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	96	183067	50.0	48.7	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	94	416849	50.0	50.7	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	89	203305	50.0	46.2	
69 Ethyl methacrylate	69	11.048	11.048	0.000	83	301944	50.0	42.8	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	243137	50.0	49.5	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	92	437129	50.0	47.1	
72 Ethylene Dibromide	107	11.450	11.450	0.000	99	210554	50.0	44.8	
S 73 1,3-Dichloropropene, Total	75				0			104.3	
118 n-Butyl acetate	43	11.640	11.640	0.000	99	321177	50.0	46.8	
74 2-Hexanone	43	11.723	11.723	0.000	96	126930	50.0	41.1	
* 76 Chlorobenzene-d5	117	11.995	11.995	0.000	87	994992	50.0	50.0	
75 1-Chlorohexane	91	12.007	12.007	0.000	74	727246	50.0	48.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.007	12.007	0.000	95	1047643	50.0	49.7	
78 Ethylbenzene	91	12.042	12.042	0.000	96	2108855	50.0	49.1	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	95	299026	50.0	50.2	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	96	773102	50.0	50.7	
82 o-Xylene	106	12.610	12.610	0.000	98	709606	50.0	51.0	
83 Styrene	104	12.669	12.669	0.000	95	1105253	50.0	52.2	
84 Bromoform	173	12.681	12.681	0.000	96	109997	50.0	51.2	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1921374	50.0	51.8	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	470100	50.0	45.7	
87 Bromobenzene	156	13.273	13.273	0.000	95	348620	50.0	52.7	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2317580	50.0	51.7	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	231166	50.0	46.7	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	1280320	50.0	50.1	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1427203	50.0	51.9	
92 1,2,3-Trichloropropane	110	13.498	13.498	0.000	80	63006	50.0	46.4	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	85	61230	50.0	41.4	
94 Cyclohexanone	55	13.545	13.545	0.000	75	48203	500.0	384.7	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	1272536	50.0	49.9	
96 tert-Butylbenzene	119	13.782	13.782	0.000	93	1286224	50.0	52.7	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	1407581	50.0	51.6	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	2022587	50.0	52.5	
99 4-Isopropyltoluene	119	14.066	14.066	0.000	97	1568244	50.0	53.6	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	680603	50.0	51.1	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	384660	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.208	0.000	92	640012	50.0	50.9	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1233859	50.0	50.0	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	404026	50.0	55.3	
120 Benzyl chloride	126	14.432	14.432	0.000	89	72815	50.0	49.8	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	553248	50.0	50.4	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	85	29258	50.0	45.9	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	59	129083	50.0	60.2	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	97	448359	50.0	52.6	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	95	202860	50.0	52.3	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	337131	50.0	51.6	
110 Naphthalene	128	16.113	16.113	0.000	97	565547	50.0	47.8	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	272822	50.0	50.7	
S 112 Xylenes, Total	106				0			101.7	
S 113 Trihalomethanes, Total	1				0			202.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

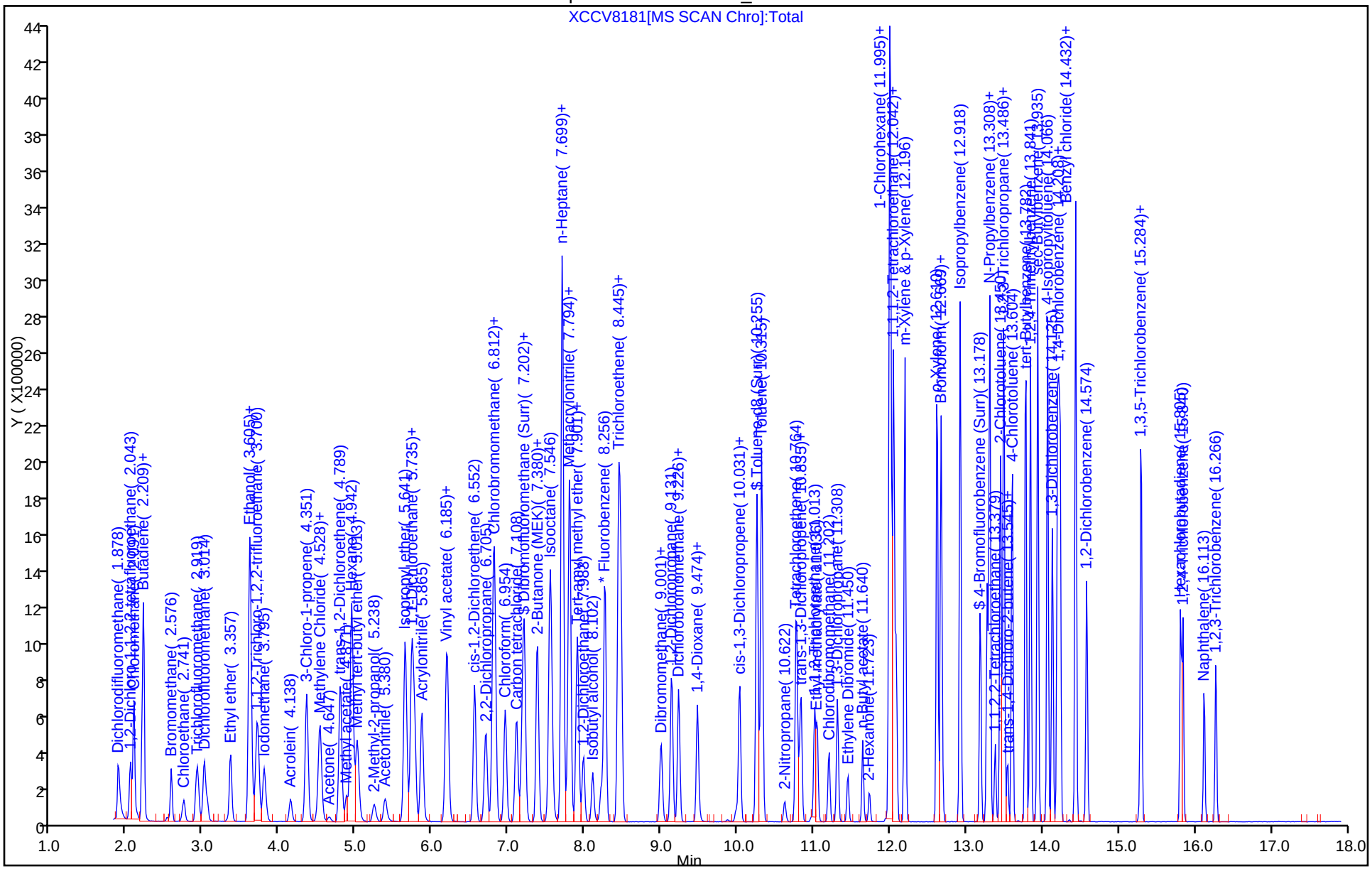
8260 NewWkMix_00230	Amount Added: 10.00	Units: uL	
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:53:19 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XCCV8181.D

Injection Date:	01-Aug-2017 23:52:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	CCVC			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCV 160-320393/3 Calibration Date: 08/02/2017 16:44

Instrument ID: VMSX Calib Start Date: 05/03/2017 21:27

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 05/04/2017 00:21

Lab File ID: XCCV8184.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
2-Chloroethyl vinyl ether	Lin1		0.0229	0.0100		50.0		20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XCCV8184.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 02-Aug-2017 16:44:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011097-003
Misc. Info.: CCV
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 07-Aug-2017 20:49:42 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: hannj Date: 07-Aug-2017 20:49:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.878	0.000	99	506340	50.0	52.3	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	227980	50.0	48.4	
3 Chloromethane	50	2.091	2.091	0.000	99	664899	50.0	49.4	
4 Vinyl chloride	62	2.197	2.197	0.000	98	504890	50.0	51.2	
121 Butadiene	39	2.209	2.209	0.000	89	432362	50.0	54.3	
5 Bromomethane	94	2.576	2.576	0.000	91	175360	50.0	57.9	
6 Chloroethane	64	2.741	2.741	0.000	98	152006	50.0	48.8	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	429048	50.0	60.3	
122 Dichlorofluoromethane	67	3.002	3.002	0.000	97	430281	50.0	55.9	
8 Ethyl ether	74	3.357	3.357	0.000	92	194875	50.0	49.1	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	96	450729	50.0	47.8	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1562093	50.0	47.7	
11 Ethanol	45	3.605	3.605	0.000	25	87870	2000.0	1803.4	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	94	311599	50.0	49.2	
13 Iodomethane	142	3.795	3.795	0.000	97	555611	50.0	48.1	
14 Acrolein	56	4.138	4.138	0.000	99	155048	250.0	243.0	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	490757	50.0	50.3	
16 Isopropyl alcohol	45	4.493	4.493	0.000	98	108465	500.0	470.0	
17 Methylene Chloride	84	4.528	4.528	0.000	96	393895	50.0	45.7	
18 Acetone	43	4.647	4.647	0.000	98	56006	50.0	43.8	
19 trans-1,2-Dichloroethene	96	4.789	4.789	0.000	98	470182	50.0	47.2	
20 Methyl acetate	74	4.871	4.871	0.000	98	56483	250.0	220.7	
21 Hexane	86	4.942	4.942	0.000	88	158049	50.0	49.8	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	97	657278	50.0	45.6	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	95	156199	500.0	412.0	
24 Acetonitrile	41	5.380	5.380	0.000	100	228846	500.0	469.9	
25 Isopropyl ether	45	5.640	5.640	0.000	95	1274419	50.0	49.3	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	92	813282	50.0	49.9	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	97	797022	50.0	46.4	
S 26 1,2-Dichloroethene, Total	96				0			94.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.853	0.000	100	709185	500.0	465.5	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	98	985266	50.0	52.1	
31 Vinyl acetate	43	6.197	6.197	0.000	98	617207	50.0	59.3	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	80	464022	50.0	47.6	
33 2,2-Dichloropropane	77	6.694	6.694	0.000	92	442794	50.0	47.9	
34 Cyclohexane	84	6.800	6.800	0.000	90	779901	50.0	47.5	
35 Chlorobromomethane	128	6.824	6.824	0.000	97	149375	50.0	50.6	
36 Chloroform	83	6.954	6.954	0.000	94	674508	50.0	46.1	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	512862	50.0	48.1	
38 Tetrahydrofuran	71	7.167	7.167	0.000	91	38804	100.0	88.8	
39 Ethyl acetate	45	7.167	7.167	0.000	99	52140	100.0	90.7	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.191	0.000	92	325835	50.0	49.6	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	97	613661	50.0	47.7	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	96	634248	50.0	46.6	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	99	83865	50.0	45.4	
124 Isooctane	57	7.546	7.546	0.000	96	2127105	50.0	47.6	
117 n-Heptane	43	7.699	7.699	0.000	75	912119	50.0	49.5	
44 Benzene	78	7.699	7.699	0.000	96	1744747	50.0	45.1	
45 Propionitrile	54	7.770	7.770	0.000	95	246369	500.0	450.6	
46 Methacrylonitrile	41	7.794	7.794	0.000	93	1200633	500.0	470.5	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	88	303440	50.0	49.0	
48 Tert-amyl methyl ether	73	7.901	7.901	0.000	97	703362	50.0	52.4	
49 1,2-Dichloroethane	62	7.972	7.972	0.000	97	373251	50.0	47.5	
50 Isobutyl alcohol	42	8.102	8.102	0.000	95	118863	1250.0	1054.8	
* 51 Fluorobenzene	96	8.256	8.256	0.000	99	1697901	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.433	0.000	92	775889	50.0	48.1	
53 Trichloroethene	95	8.469	8.469	0.000	98	443999	50.0	44.5	
54 n-Butanol	56	8.989	8.989	0.000	89	120715	1250.0	998.4	
55 Dibromomethane	93	9.001	9.001	0.000	93	157383	50.0	49.0	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	96	404783	50.0	47.4	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	262996	50.0	48.5	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	456395	50.0	49.7	
58 Methyl methacrylate	69	9.474	9.474	0.000	94	292755	100.0	98.3	
59 1,4-Dioxane	88	9.498	9.498	0.000	88	36908	1000.0	933.0	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	90	38920	NC	NC	
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	95	551478	50.0	50.9	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1589017	50.0	48.0	
63 Toluene	92	10.314	10.314	0.000	98	1094403	50.0	46.2	
64 2-Nitropropane	43	10.622	10.622	0.000	97	94353	100.0	94.8	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	336335	50.0	48.0	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.800	0.000	95	174784	50.0	44.7	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	94	422168	50.0	49.4	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	89	199071	50.0	43.5	
69 Ethyl methacrylate	69	11.048	11.048	0.000	81	290950	50.0	39.8	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	244410	50.0	47.8	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	92	430902	50.0	44.7	
72 Ethylene Dibromide	107	11.439	11.439	0.000	99	207231	50.0	42.5	
S 73 1,3-Dichloropropene, Total	75				0			100.4	
118 n-Butyl acetate	43	11.640	11.640	0.000	99	311419	50.0	43.8	
74 2-Hexanone	43	11.723	11.723	0.000	95	125526	50.0	39.2	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	1034640	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	84	731118	50.0	47.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.007	12.007	0.000	96	1030667	50.0	47.0	
78 Ethylbenzene	91	12.042	12.042	0.000	98	2041004	50.0	45.7	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	96	294378	50.0	47.5	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	96	756187	50.0	47.7	
82 o-Xylene	106	12.610	12.610	0.000	98	705753	50.0	48.8	
83 Styrene	104	12.669	12.669	0.000	95	1072226	50.0	48.7	
84 Bromoform	173	12.681	12.681	0.000	95	105911	50.0	47.0	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1907710	50.0	49.0	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	82	493258	50.0	45.7	
87 Bromobenzene	156	13.273	13.273	0.000	96	343969	50.0	49.6	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2302103	50.0	48.9	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	227217	50.0	43.7	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	1277965	50.0	47.6	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1401337	50.0	48.6	
92 1,2,3-Trichloropropane	110	13.498	13.498	0.000	81	61643	50.0	43.3	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	87	62285	50.0	40.2	
94 Cyclohexanone	55	13.533	13.533	0.000	73	49336	500.0	376.0	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	1293969	50.0	48.3	
96 tert-Butylbenzene	119	13.782	13.782	0.000	93	1255852	50.0	49.1	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	1389881	50.0	48.5	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	1983963	50.0	49.1	
99 4-Isopropyltoluene	119	14.066	14.066	0.000	97	1563707	50.0	50.9	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	675479	50.0	48.4	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	403606	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.208	0.000	92	633461	50.0	48.0	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1213785	50.0	46.9	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	404778	50.0	52.8	
120 Benzyl chloride	126	14.432	14.432	0.000	89	81297	50.0	52.8	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	548378	50.0	47.6	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	86	27041	50.0	40.4	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	60	129336	50.0	58.4	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	97	460284	50.0	51.4	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	206918	50.0	50.9	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	95	346285	50.0	50.5	
110 Naphthalene	128	16.113	16.113	0.000	97	573224	50.0	46.2	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	274573	50.0	48.6	
S 112 Xylenes, Total	106				0			96.5	
S 113 Trihalomethanes, Total	1				0			190.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

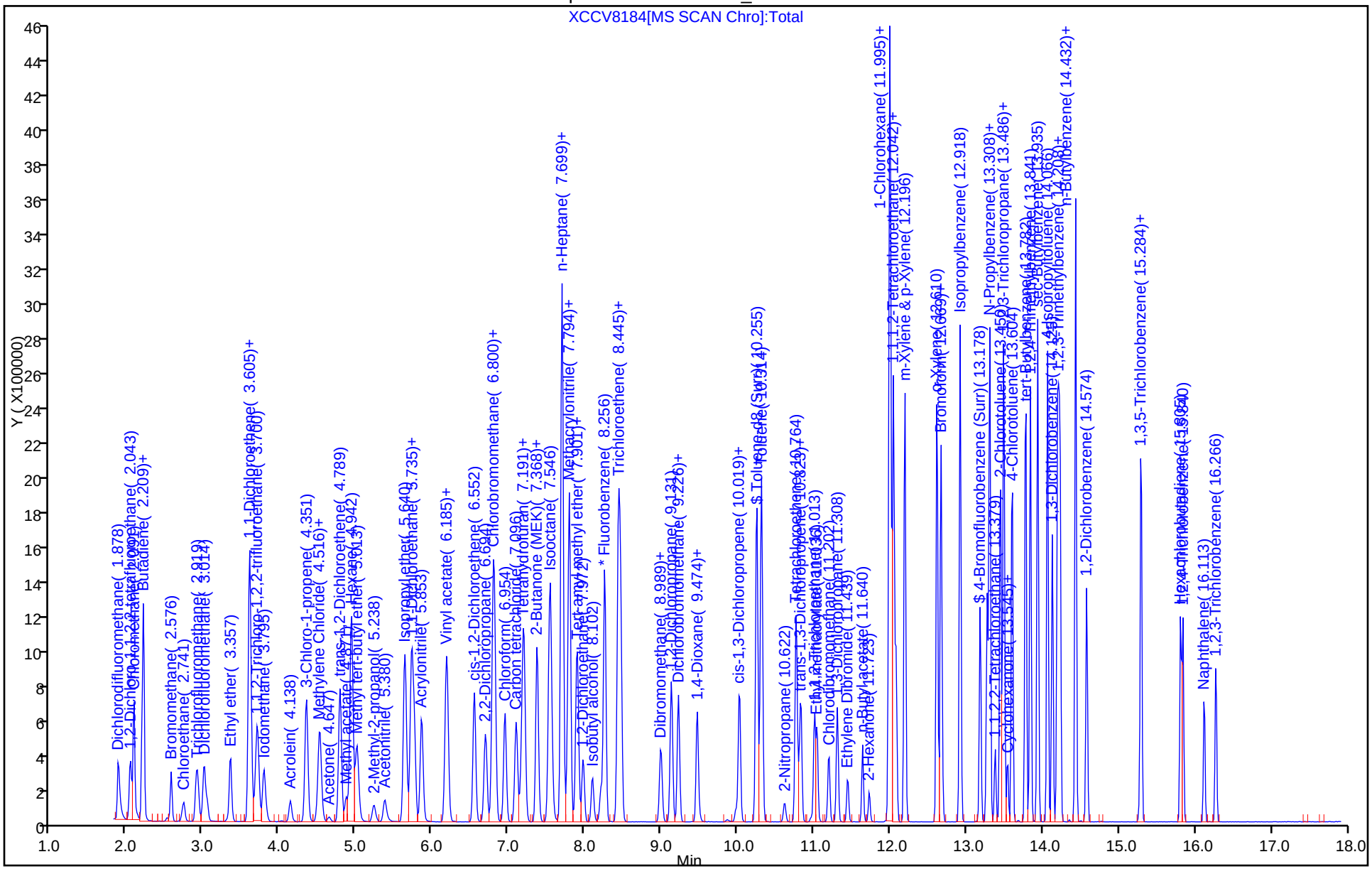
8260 NewWkMix_00230	Amount Added: 10.00	Units: uL	
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 07-Aug-2017 20:49:44 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XCCV8184.D

Injection Date:	02-Aug-2017 16:44:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCV 160-320393/3 Calibration Date: 08/02/2017 16:44

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XCCV8184.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	0.2851	0.2982	0.1000	52.3	50.0	4.6	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1386	0.1343	0.0100	48.4	50.0	-3.2	20.0
Chloromethane	Ave	0.3961	0.3916	0.1000	49.4	50.0	-1.1	20.0
Vinyl chloride	Ave	0.2902	0.2974	0.1000	51.2	50.0	2.5	20.0
Butadiene	Ave	0.2344	0.2546	0.0100	54.3	50.0	8.6	20.0
Bromomethane	Ave	0.0892	0.1033	0.1000	57.9	50.0	15.8	20.0
Chloroethane	Ave	0.0917	0.0895*	0.1000	48.8	50.0	-2.4	20.0
Trichlorofluoromethane	Ave	0.2097	0.2527	0.1000	60.3	50.0	20.5*	20.0
Dichlorofluoromethane	Ave	0.2267	0.2534	0.0100	55.9	50.0	11.8	20.0
Ethyl ether	Ave	0.1169	0.1148	0.0100	49.1	50.0	-1.8	20.0
1,1-Dichloroethene	Ave	0.2777	0.2655	0.1000	47.8	50.0	-4.4	20.0
Carbon disulfide	Ave	0.9642	0.9200	0.1000	47.7	50.0	-4.6	20.0
Ethanol	Ave	0.0014	0.0013*	0.0100	1800	2000	-9.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1866	0.1835	0.1000	49.2	50.0	-1.6	20.0
Iodomethane	Ave	0.3400	0.3272	0.0100	48.1	50.0	-3.7	20.0
Acrolein	Ave	0.0188	0.0183	0.0010	243	250	-2.8	20.0
3-Chloro-1-propene	Ave	0.2872	0.2890	0.0100	50.3	50.0	0.6	20.0
Isopropyl alcohol	Qua		0.0064*	0.0100	470	500	-6.0	20.0
Methylene Chloride	Ave	0.2540	0.2320	0.1000	45.7	50.0	-8.7	20.0
Acetone	Lin		0.0330*	0.1000	43.8	50.0	-12.3	20.0
trans-1,2-Dichloroethene	Ave	0.2931	0.2769	0.1000	47.2	50.0	-5.5	20.0
Methyl acetate	Ave	0.0075	0.0067*	0.1000	221	250	-11.7	20.0
Hexane	Ave	0.0934	0.0931	0.0100	49.8	50.0	-0.3	20.0
Methyl tert-butyl ether	Ave	0.4242	0.3871	0.1000	45.6	50.0	-8.7	20.0
2-Methyl-2-propanol	Lin1		0.0092*	0.0100	412	500	-17.6	20.0
Acetonitrile	Ave	0.0143	0.0135	0.0010	470	500	-6.0	20.0
Isopropyl ether	Ave	0.7615	0.7506	0.0100	49.3	50.0	-1.4	20.0
2-Chloro-1,3-butadiene	Ave	0.4796	0.4790	0.0100	49.9	50.0	-0.1	20.0
1,1-Dichloroethane	Ave	0.5058	0.4694	0.2000	46.4	50.0	-7.2	20.0
Acrylonitrile	Ave	0.0449	0.0418	0.0100	466	500	-6.9	20.0
Tert-butyl ethyl ether	Ave	0.5565	0.5803	0.0100	52.1	50.0	4.3	20.0
Vinyl acetate	Ave	0.3066	0.3635	0.0100	59.3	50.0	18.6	20.0
cis-1,2-Dichloroethene	Ave	0.2872	0.2733	0.1000	47.6	50.0	-4.8	20.0
2,2-Dichloropropane	Ave	0.2720	0.2608	0.0100	47.9	50.0	-4.1	20.0
Cyclohexane	Ave	0.4834	0.4593	0.1000	47.5	50.0	-5.0	20.0
Bromochloromethane	Ave	0.0870	0.0880	0.0100	50.6	50.0	1.1	20.0
Chloroform	Ave	0.4309	0.3973	0.2000	46.1	50.0	-7.8	20.0
Carbon tetrachloride	Ave	0.3141	0.3021	0.1000	48.1	50.0	-3.8	20.0
Ethyl acetate	Lin1		0.0154	0.0100	90.7	100	-9.3	20.0
1,1,1-Trichloroethane	Ave	0.3787	0.3614	0.1000	47.7	50.0	-4.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCV 160-320393/3 Calibration Date: 08/02/2017 16:44

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XCCV8184.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-Dichloropropene	Ave	0.4009	0.3736	0.0100	46.6	50.0	-6.8	20.0
2-Butanone (MEK)	Ave	0.0545	0.0494*	0.1000	45.4	50.0	-9.3	20.0
Isooctane	Ave	1.315	1.253	0.0100	47.6	50.0	-4.7	20.0
Benzene	Ave	1.139	1.028	0.5000	45.1	50.0	-9.8	20.0
n-Heptane	Ave	0.5425	0.5372	0.0100	49.5	50.0	-1.0	20.0
Propionitrile	Ave	0.0161	0.0145	0.0010	451	500	-9.9	20.0
Methacrylonitrile	Ave	0.0751	0.0707	0.0100	470	500	-5.9	20.0
Tert-amyl methyl ether	Ave	0.3956	0.4143	0.0100	52.4	50.0	4.7	20.0
1,2-Dichloroethane	Ave	0.2313	0.2198	0.1000	47.5	50.0	-5.0	20.0
Isobutyl alcohol	Lin1		0.0028	0.0010	1050	1250	-15.6	20.0
Methylcyclohexane	Ave	0.4753	0.4570	0.1000	48.1	50.0	-3.9	20.0
Trichloroethene	Ave	0.2939	0.2615	0.2000	44.5	50.0	-11.0	20.0
n-Butanol	Lin1		0.0028*	0.0100	998	1250	-20.1*	20.0
Dibromomethane	Ave	0.0945	0.0927	0.0100	49.0	50.0	-1.9	20.0
1,2-Dichloropropane	Ave	0.2517	0.2384	0.1000	47.4	50.0	-5.3	20.0
Bromodichloromethane	Ave	0.2705	0.2688	0.2000	49.7	50.0	-0.6	20.0
Ethyl acrylate	Ave	0.1598	0.1549	0.0100	48.5	50.0	-3.1	20.0
Methyl methacrylate	Ave	0.0877	0.0862	0.0100	98.3	100	-1.7	20.0
1,4-Dioxane	Ave	0.0012	0.0011	0.0010	933	1000	-6.7	20.0
cis-1,3-Dichloropropene	Ave	0.3187	0.3248	0.2000	50.9	50.0	1.9	20.0
Toluene	Ave	1.145	1.058	0.4000	46.2	50.0	-7.6	20.0
2-Nitropropane	QuaF		0.0456	0.0100	94.8	100	-5.2	20.0
Tetrachloroethene	Ave	0.3386	0.3251	0.2000	48.0	50.0	-4.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1890	0.1689	0.1000	44.7	50.0	-10.6	20.0
trans-1,3-Dichloropropene	Ave	0.4130	0.4080	0.1000	49.4	50.0	-1.2	20.0
1,1,2-Trichloroethane	Ave	0.2209	0.1924	0.1000	43.5	50.0	-12.9	20.0
Ethyl methacrylate	Lin1		0.2812	0.0100	39.8	50.0	-20.3*	20.0
Dibromochloromethane	Ave	0.2470	0.2362	0.1000	47.8	50.0	-4.4	20.0
1,3-Dichloropropane	Ave	0.4659	0.4165	0.0100	44.7	50.0	-10.6	20.0
1,2-Dibromoethane	Lin1		0.2003	0.1000	42.5	50.0	-15.1	20.0
n-Butyl acetate	QuaF		0.3010	0.0100	43.8	50.0	-12.3	20.0
2-Hexanone	Lin1		0.1213	0.1000	39.2	50.0	-21.6*	20.0
1-Chlorohexane	Ave	0.7493	0.7066	0.0100	47.2	50.0	-5.7	20.0
Chlorobenzene	Ave	1.059	0.996	0.5000	47.0	50.0	-5.9	20.0
Ethylbenzene	Ave	2.156	1.973	0.1000	45.7	50.0	-8.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2995	0.2845	0.0100	47.5	50.0	-5.0	20.0
m,p-Xylenes	Ave	0.7659	0.7309	0.1000	47.7	50.0	-4.6	20.0
o-Xylene	Ave	0.6996	0.6821	0.3000	48.8	50.0	-2.5	20.0
Styrene	Ave	1.063	1.036	0.3000	48.7	50.0	-2.5	20.0
Bromoform	Ave	0.2790	0.2624	0.1000	47.0	50.0	-6.0	20.0
Isopropylbenzene	Ave	4.824	4.727	0.1000	49.0	50.0	-2.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCV 160-320393/3 Calibration Date: 08/02/2017 16:44

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XCCV8184.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
Bromobenzene	Ave	0.8599	0.8522	0.0100	49.6	50.0	-0.9	20.0
N-Propylbenzene	Ave	5.829	5.704	0.0100	48.9	50.0	-2.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6439	0.5630	0.3000	43.7	50.0	-12.6	20.0
2-Chlorotoluene	Ave	3.324	3.166	0.0100	47.6	50.0	-4.7	20.0
1,3,5-Trimethylbenzene	Ave	3.571	3.472	0.0100	48.6	50.0	-2.8	20.0
1,2,3-Trichloropropane	Ave	0.1764	0.1527	0.0100	43.3	50.0	-13.4	20.0
Cyclohexanone	Lin1		0.0122	0.0010	376	500	-24.8*	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1543	0.0100	40.2	50.0	-19.5	20.0
4-Chlorotoluene	Ave	3.318	3.206	0.0100	48.3	50.0	-3.4	20.0
tert-Butylbenzene	Ave	3.170	3.112	0.0100	49.1	50.0	-1.9	20.0
1,2,4-Trimethylbenzene	Ave	3.547	3.444	0.0100	48.5	50.0	-2.9	20.0
sec-Butylbenzene	Ave	5.003	4.916	0.0100	49.1	50.0	-1.8	20.0
p-Isopropyltoluene	Ave	3.806	3.874	0.0100	50.9	50.0	1.8	20.0
1,3-Dichlorobenzene	Ave	1.730	1.674	0.6000	48.4	50.0	-3.2	20.0
1,4-Dichlorobenzene	Ave	1.633	1.570	0.5000	48.0	50.0	-3.9	20.0
1,2,3-Trimethylbenzene	Ave	3.207	3.007	0.0100	46.9	50.0	-6.2	20.0
Benzyl chloride	Lin1		0.2014	0.0100	52.8	50.0	5.7	20.0
n-Butylbenzene	Ave	0.9491	1.003	0.0100	52.8	50.0	5.7	20.0
1,2-Dichlorobenzene	Ave	1.427	1.359	0.4000	47.6	50.0	-4.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0829	0.0670	0.0500	40.4	50.0	-19.2	20.0
n-Nonyl Aldehyde	Qua		0.3205	0.0100	58.4	50.0	16.8	20.0
1,3,5-Trichlorobenzene	Ave	1.109	1.140	0.0100	51.4	50.0	2.9	20.0
Hexachlorobutadiene	Ave	0.5039	0.5127	0.0100	50.9	50.0	1.7	20.0
1,2,4-Trichlorobenzene	Ave	0.8494	0.8580	0.2000	50.5	50.0	1.0	20.0
Naphthalene	Ave	1.536	1.420	0.0100	46.2	50.0	-7.6	20.0
1,2,3-Trichlorobenzene	Ave	0.7001	0.6803	0.0100	48.6	50.0	-2.8	20.0
Dibromofluoromethane (Surr)	Ave	0.1936	0.1919	0.0100	49.6	50.0	-0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1824	0.1787	0.0100	49.0	50.0	-2.0	20.0
Toluene-d8 (Surr)	Ave	1.599	1.536	0.0100	48.0	50.0	-4.0	20.0
4-Bromofluorobenzene (Surr)	Ave	1.338	1.222	0.0100	45.7	50.0	-8.6	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XCCV8184.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 02-Aug-2017 16:44:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011097-003
Misc. Info.: CCV
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 07-Aug-2017 20:49:42 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: hannj Date: 07-Aug-2017 20:49:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.878	0.000	99	506340	50.0	52.3	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	227980	50.0	48.4	
3 Chloromethane	50	2.091	2.091	0.000	99	664899	50.0	49.4	
4 Vinyl chloride	62	2.197	2.197	0.000	98	504890	50.0	51.2	
121 Butadiene	39	2.209	2.209	0.000	89	432362	50.0	54.3	
5 Bromomethane	94	2.576	2.576	0.000	91	175360	50.0	57.9	
6 Chloroethane	64	2.741	2.741	0.000	98	152006	50.0	48.8	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	429048	50.0	60.3	
122 Dichlorofluoromethane	67	3.002	3.002	0.000	97	430281	50.0	55.9	
8 Ethyl ether	74	3.357	3.357	0.000	92	194875	50.0	49.1	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	96	450729	50.0	47.8	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1562093	50.0	47.7	
11 Ethanol	45	3.605	3.605	0.000	25	87870	2000.0	1803.4	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	94	311599	50.0	49.2	
13 Iodomethane	142	3.795	3.795	0.000	97	555611	50.0	48.1	
14 Acrolein	56	4.138	4.138	0.000	99	155048	250.0	243.0	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	490757	50.0	50.3	
16 Isopropyl alcohol	45	4.493	4.493	0.000	98	108465	500.0	470.0	
17 Methylene Chloride	84	4.528	4.528	0.000	96	393895	50.0	45.7	
18 Acetone	43	4.647	4.647	0.000	98	56006	50.0	43.8	
19 trans-1,2-Dichloroethene	96	4.789	4.789	0.000	98	470182	50.0	47.2	
20 Methyl acetate	74	4.871	4.871	0.000	98	56483	250.0	220.7	
21 Hexane	86	4.942	4.942	0.000	88	158049	50.0	49.8	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	97	657278	50.0	45.6	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	95	156199	500.0	412.0	
24 Acetonitrile	41	5.380	5.380	0.000	100	228846	500.0	469.9	
25 Isopropyl ether	45	5.640	5.640	0.000	95	1274419	50.0	49.3	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	92	813282	50.0	49.9	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	97	797022	50.0	46.4	
S 26 1,2-Dichloroethene, Total	96				0			94.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.853	0.000	100	709185	500.0	465.5	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	98	985266	50.0	52.1	
31 Vinyl acetate	43	6.197	6.197	0.000	98	617207	50.0	59.3	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	80	464022	50.0	47.6	
33 2,2-Dichloropropane	77	6.694	6.694	0.000	92	442794	50.0	47.9	
34 Cyclohexane	84	6.800	6.800	0.000	90	779901	50.0	47.5	
35 Chlorobromomethane	128	6.824	6.824	0.000	97	149375	50.0	50.6	
36 Chloroform	83	6.954	6.954	0.000	94	674508	50.0	46.1	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	512862	50.0	48.1	
38 Tetrahydrofuran	71	7.167	7.167	0.000	91	38804	100.0	88.8	
39 Ethyl acetate	45	7.167	7.167	0.000	99	52140	100.0	90.7	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.191	0.000	92	325835	50.0	49.6	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	97	613661	50.0	47.7	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	96	634248	50.0	46.6	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	99	83865	50.0	45.4	
124 Isooctane	57	7.546	7.546	0.000	96	2127105	50.0	47.6	
117 n-Heptane	43	7.699	7.699	0.000	75	912119	50.0	49.5	
44 Benzene	78	7.699	7.699	0.000	96	1744747	50.0	45.1	
45 Propionitrile	54	7.770	7.770	0.000	95	246369	500.0	450.6	
46 Methacrylonitrile	41	7.794	7.794	0.000	93	1200633	500.0	470.5	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	88	303440	50.0	49.0	
48 Tert-amyl methyl ether	73	7.901	7.901	0.000	97	703362	50.0	52.4	
49 1,2-Dichloroethane	62	7.972	7.972	0.000	97	373251	50.0	47.5	
50 Isobutyl alcohol	42	8.102	8.102	0.000	95	118863	1250.0	1054.8	
* 51 Fluorobenzene	96	8.256	8.256	0.000	99	1697901	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.433	0.000	92	775889	50.0	48.1	
53 Trichloroethene	95	8.469	8.469	0.000	98	443999	50.0	44.5	
54 n-Butanol	56	8.989	8.989	0.000	89	120715	1250.0	998.4	
55 Dibromomethane	93	9.001	9.001	0.000	93	157383	50.0	49.0	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	96	404783	50.0	47.4	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	262996	50.0	48.5	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	456395	50.0	49.7	
58 Methyl methacrylate	69	9.474	9.474	0.000	94	292755	100.0	98.3	
59 1,4-Dioxane	88	9.498	9.498	0.000	88	36908	1000.0	933.0	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	90	38920	NC	NC	
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	95	551478	50.0	50.9	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1589017	50.0	48.0	
63 Toluene	92	10.314	10.314	0.000	98	1094403	50.0	46.2	
64 2-Nitropropane	43	10.622	10.622	0.000	97	94353	100.0	94.8	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	336335	50.0	48.0	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.800	0.000	95	174784	50.0	44.7	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	94	422168	50.0	49.4	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	89	199071	50.0	43.5	
69 Ethyl methacrylate	69	11.048	11.048	0.000	81	290950	50.0	39.8	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	244410	50.0	47.8	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	92	430902	50.0	44.7	
72 Ethylene Dibromide	107	11.439	11.439	0.000	99	207231	50.0	42.5	
S 73 1,3-Dichloropropene, Total	75				0			100.4	
118 n-Butyl acetate	43	11.640	11.640	0.000	99	311419	50.0	43.8	
74 2-Hexanone	43	11.723	11.723	0.000	95	125526	50.0	39.2	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	1034640	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	84	731118	50.0	47.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.007	12.007	0.000	96	1030667	50.0	47.0	
78 Ethylbenzene	91	12.042	12.042	0.000	98	2041004	50.0	45.7	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	96	294378	50.0	47.5	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	96	756187	50.0	47.7	
82 o-Xylene	106	12.610	12.610	0.000	98	705753	50.0	48.8	
83 Styrene	104	12.669	12.669	0.000	95	1072226	50.0	48.7	
84 Bromoform	173	12.681	12.681	0.000	95	105911	50.0	47.0	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1907710	50.0	49.0	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	82	493258	50.0	45.7	
87 Bromobenzene	156	13.273	13.273	0.000	96	343969	50.0	49.6	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2302103	50.0	48.9	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	227217	50.0	43.7	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	1277965	50.0	47.6	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1401337	50.0	48.6	
92 1,2,3-Trichloropropane	110	13.498	13.498	0.000	81	61643	50.0	43.3	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	87	62285	50.0	40.2	
94 Cyclohexanone	55	13.533	13.533	0.000	73	49336	500.0	376.0	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	1293969	50.0	48.3	
96 tert-Butylbenzene	119	13.782	13.782	0.000	93	1255852	50.0	49.1	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	1389881	50.0	48.5	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	1983963	50.0	49.1	
99 4-Isopropyltoluene	119	14.066	14.066	0.000	97	1563707	50.0	50.9	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	675479	50.0	48.4	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	403606	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.208	0.000	92	633461	50.0	48.0	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1213785	50.0	46.9	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	404778	50.0	52.8	
120 Benzyl chloride	126	14.432	14.432	0.000	89	81297	50.0	52.8	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	548378	50.0	47.6	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	86	27041	50.0	40.4	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	60	129336	50.0	58.4	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	97	460284	50.0	51.4	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	206918	50.0	50.9	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	95	346285	50.0	50.5	
110 Naphthalene	128	16.113	16.113	0.000	97	573224	50.0	46.2	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	274573	50.0	48.6	
S 112 Xylenes, Total	106				0			96.5	
S 113 Trihalomethanes, Total	1				0			190.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

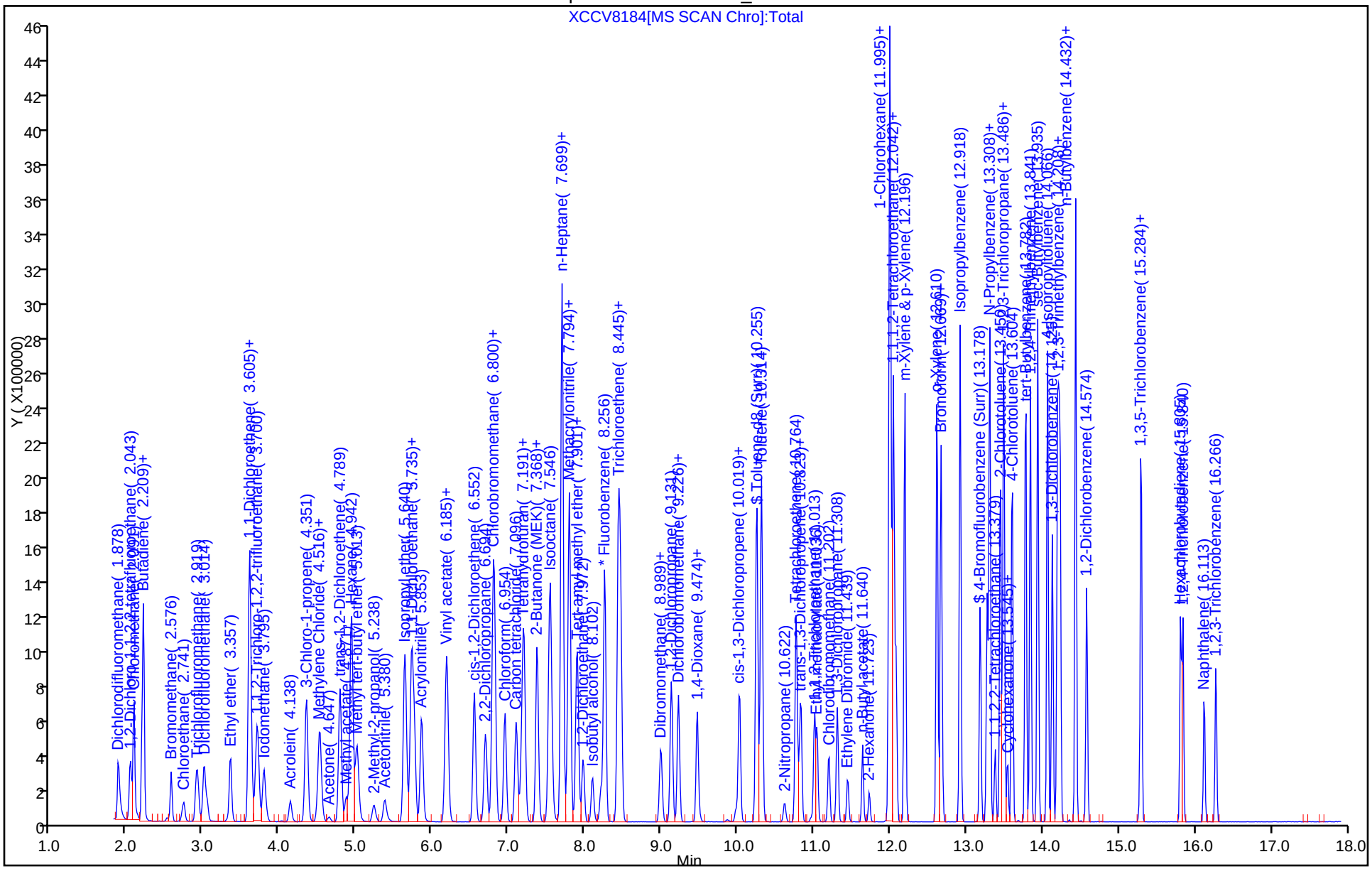
8260 NewWkMix_00230	Amount Added: 10.00	Units: uL	
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 07-Aug-2017 20:49:44 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XCCV8184.D

Injection Date:	02-Aug-2017 16:44:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCVC 160-320393/9 Calibration Date: 08/02/2017 19:36

Instrument ID: VMSX Calib Start Date: 05/03/2017 21:27

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 05/04/2017 00:21

Lab File ID: XCCV8190.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
2-Chloroethyl vinyl ether	Lin1		0.0231	0.0100		50.0		50.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XCCV8190.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 02-Aug-2017 19:36:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011097-009
Misc. Info.: CCVC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 07-Aug-2017 20:56:23 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: hannj Date: 07-Aug-2017 20:56:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	99	493913	50.0	50.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	220292	50.0	46.0	
3 Chloromethane	50	2.091	2.091	0.000	99	646087	50.0	47.2	
4 Vinyl chloride	62	2.197	2.197	0.000	98	481331	50.0	48.0	
121 Butadiene	39	2.221	2.221	0.000	89	403732	50.0	49.8	
5 Bromomethane	94	2.576	2.576	0.000	91	173200	50.0	56.1	
6 Chloroethane	64	2.741	2.741	0.000	99	148928	50.0	47.0	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	401864	50.0	55.4	
122 Dichlorofluoromethane	67	3.014	3.014	0.000	97	421061	50.0	53.7	
8 Ethyl ether	74	3.357	3.357	0.000	93	201966	50.0	50.0	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	96	446529	50.0	46.5	
10 Carbon disulfide	76	3.617	3.617	0.000	99	1556111	50.0	46.7	
11 Ethanol	45	3.617	3.617	0.000	25	95695	2000.0	1928.8	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	95	310095	50.0	48.1	
13 Iodomethane	142	3.795	3.795	0.000	97	560224	50.0	47.7	
14 Acrolein	56	4.150	4.150	0.000	100	165862	250.0	255.2	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	486909	50.0	49.0	
16 Isopropyl alcohol	45	4.505	4.505	0.000	97	117227	500.0	497.3	
17 Methylene Chloride	84	4.528	4.528	0.000	95	397512	50.0	45.3	
18 Acetone	43	4.658	4.658	0.000	99	54418	50.0	41.7	
19 trans-1,2-Dichloroethene	96	4.800	4.800	0.000	98	468911	50.0	46.3	
20 Methyl acetate	74	4.883	4.883	0.000	98	60944	250.0	233.9	
21 Hexane	86	4.942	4.942	0.000	88	153224	50.0	47.5	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	96	698587	50.0	47.6	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	96	179500	500.0	463.9	
24 Acetonitrile	41	5.380	5.380	0.000	99	242054	500.0	488.1	
25 Isopropyl ether	45	5.640	5.640	0.000	95	1301007	50.0	49.4	
27 2-Chloro-1,3-butadiene	53	5.735	5.735	0.000	92	812337	50.0	49.0	
28 1,1-Dichloroethane	63	5.771	5.771	0.000	97	791828	50.0	45.3	
S 26 1,2-Dichloroethene, Total	96				0			93.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	99	730634	500.0	471.0	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	98	1029402	50.0	53.5	
31 Vinyl acetate	43	6.208	6.208	0.000	97	630289	50.0	59.5	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	80	466341	50.0	47.0	
33 2,2-Dichloropropane	77	6.705	6.705	0.000	93	413925	50.0	44.0	
34 Cyclohexane	84	6.800	6.800	0.000	90	775169	50.0	46.4	
35 Chlorobromomethane	128	6.824	6.824	0.000	95	148789	50.0	49.5	
36 Chloroform	83	6.954	6.954	0.000	93	687406	50.0	46.1	
37 Carbon tetrachloride	117	7.108	7.108	0.000	98	510515	50.0	47.0	
38 Tetrahydrofuran	71	7.167	7.167	0.000	91	44622	100.0	100.3	
39 Ethyl acetate	45	7.179	7.179	0.000	97	57541	100.0	98.1	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	91	329603	50.0	49.2	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	620735	50.0	47.4	
42 1,1-Dichloropropene	75	7.380	7.380	0.000	97	637469	50.0	46.0	
43 2-Butanone (MEK)	43	7.404	7.404	0.000	100	91472	50.0	48.6	
124 Isooctane	57	7.546	7.546	0.000	96	2130246	50.0	46.9	
117 n-Heptane	43	7.699	7.699	0.000	76	910928	50.0	48.6	
44 Benzene	78	7.711	7.711	0.000	96	1741649	50.0	44.2	
45 Propionitrile	54	7.770	7.770	0.000	94	259453	500.0	466.0	
46 Methacrylonitrile	41	7.806	7.806	0.000	92	1270338	500.0	488.9	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	88	315201	50.0	50.0	
48 Tert-amyl methyl ether	73	7.912	7.912	0.000	96	731321	50.0	53.5	
49 1,2-Dichloroethane	62	7.983	7.983	0.000	96	379680	50.0	47.5	
50 Isobutyl alcohol	42	8.102	8.102	0.000	95	131893	1250.0	1147.7	
* 51 Fluorobenzene	96	8.267	8.267	0.000	99	1728949	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.445	0.000	90	764552	50.0	46.5	
53 Trichloroethene	95	8.480	8.480	0.000	99	444918	50.0	43.8	
54 n-Butanol	56	8.989	8.989	0.000	90	134279	1250.0	1083.7	
55 Dibromomethane	93	9.001	9.001	0.000	97	159222	50.0	48.7	
56 1,2-Dichloropropane	63	9.143	9.143	0.000	97	410149	50.0	47.1	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	280857	50.0	50.8	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	464021	50.0	49.6	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	315856	100.0	104.2	
59 1,4-Dioxane	88	9.498	9.498	0.000	80	41544	1000.0	1031.4	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	89	39971	NC	NC	
61 cis-1,3-Dichloropropene	75	10.030	10.030	0.000	96	562299	50.0	51.0	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1606996	50.0	47.7	
63 Toluene	92	10.314	10.314	0.000	98	1098636	50.0	45.6	
64 2-Nitropropane	43	10.622	10.622	0.000	98	96644	100.0	95.4	
65 Tetrachloroethene	164	10.776	10.776	0.000	95	333852	50.0	46.8	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	97	194306	50.0	48.8	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	94	429565	50.0	49.4	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	89	210107	50.0	45.2	
69 Ethyl methacrylate	69	11.048	11.048	0.000	88	311233	50.0	41.8	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	250763	50.0	48.2	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	92	450677	50.0	45.9	
72 Ethylene Dibromide	107	11.450	11.450	0.000	98	217581	50.0	43.8	
S 73 1,3-Dichloropropene, Total	75				0			100.4	
118 n-Butyl acetate	43	11.640	11.640	0.000	98	337251	50.0	46.4	
74 2-Hexanone	43	11.734	11.734	0.000	96	137642	50.0	42.0	
* 76 Chlorobenzene-d5	117	11.995	11.995	0.000	88	1052733	50.0	50.0	
75 1-Chlorohexane	91	12.007	12.007	0.000	77	683589	50.0	43.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.007	12.007	0.000	97	1034244	50.0	46.4	
78 Ethylbenzene	91	12.042	12.042	0.000	98	2118439	50.0	46.7	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	95	301405	50.0	47.8	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	96	761772	50.0	47.2	
82 o-Xylene	106	12.622	12.622	0.000	97	724930	50.0	49.2	
83 Styrene	104	12.669	12.669	0.000	96	1102723	50.0	49.3	
84 Bromoform	173	12.681	12.681	0.000	96	112666	50.0	48.4	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1936663	50.0	48.1	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	508072	50.0	45.5	
87 Bromobenzene	156	13.273	13.273	0.000	95	353488	50.0	49.2	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2330324	50.0	47.9	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	237112	50.0	44.1	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	1282301	50.0	46.2	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1433262	50.0	48.1	
92 1,2,3-Trichloropropane	110	13.498	13.498	0.000	80	65553	50.0	44.5	
93 trans-1,4-Dichloro-2-buten	53	13.545	13.545	0.000	84	65674	50.0	41.0	
94 Cyclohexanone	55	13.545	13.545	0.000	75	52203	500.0	383.9	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	1304612	50.0	47.1	
96 tert-Butylbenzene	119	13.782	13.782	0.000	93	1289816	50.0	48.7	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	98	1418367	50.0	47.9	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	2019083	50.0	48.3	
99 4-Isopropyltoluene	119	14.066	14.066	0.000	97	1584831	50.0	49.9	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	672227	50.0	46.5	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	97	417547	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	96	638396	50.0	46.8	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1241604	50.0	46.4	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	407293	50.0	51.4	
120 Benzyl chloride	126	14.432	14.432	0.000	89	74466	50.0	47.0	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	564355	50.0	47.4	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	84	30007	50.0	43.3	
106 n-Nonyl Aldehyde	57	15.296	15.296	0.000	57	144445	50.0	61.5	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	97	460923	50.0	49.8	
108 Hexachlorobutadiene	225	15.817	15.817	0.000	97	210626	50.0	50.1	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	354194	50.0	49.9	
110 Naphthalene	128	16.124	16.124	0.000	97	599626	50.0	46.7	
111 1,2,3-Trichlorobenzene	180	16.278	16.278	0.000	96	290773	50.0	49.7	
S 112 Xylenes, Total	106				0			96.5	
S 113 Trihalomethanes, Total	1				0			192.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

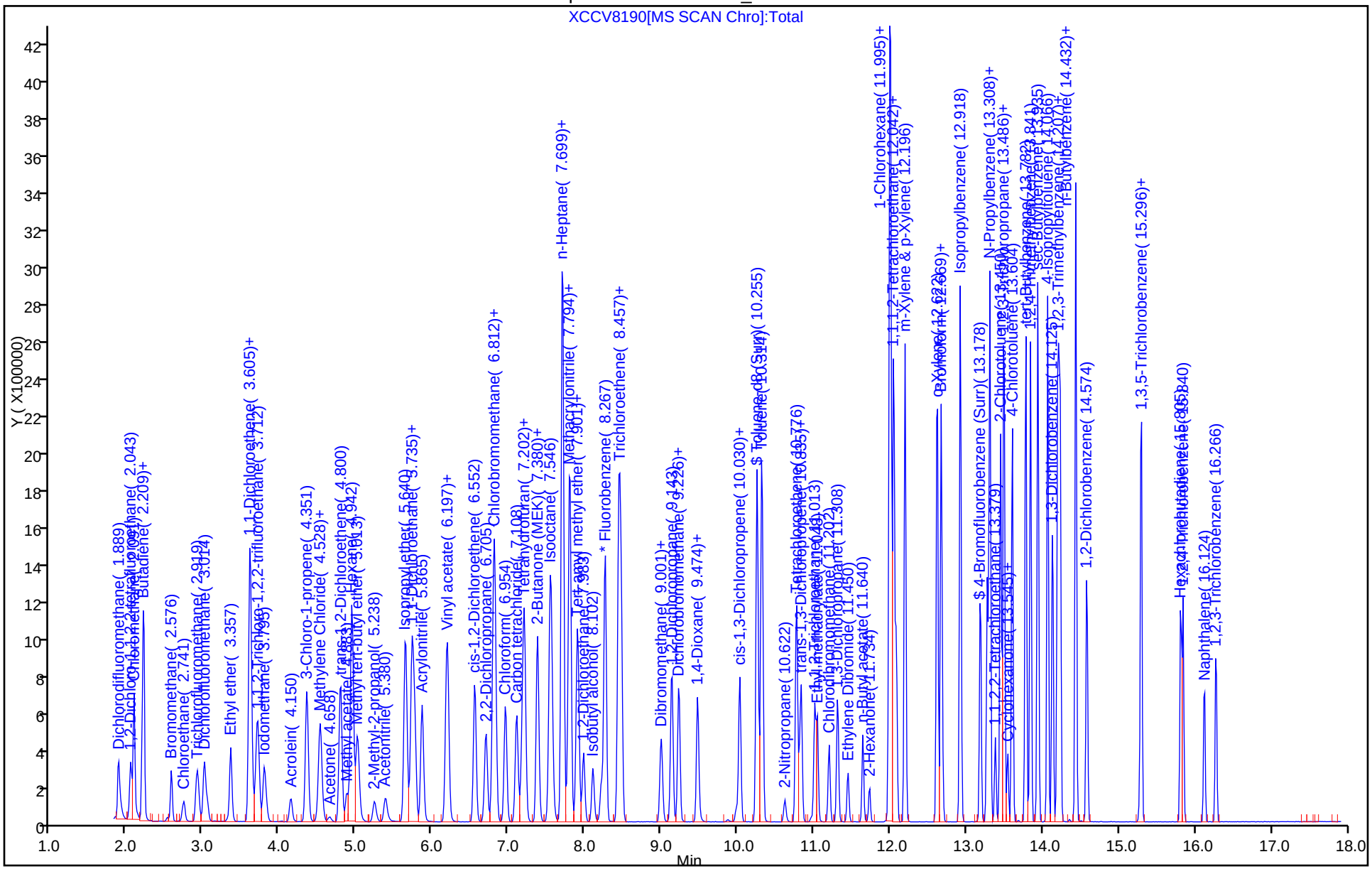
8260 NewWkMix_00230	Amount Added: 10.00	Units: uL	
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 07-Aug-2017 20:56:23 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XCCV8190.D

Injection Date:	02-Aug-2017 19:36:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	CCVC			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCVC 160-320393/9 Calibration Date: 08/02/2017 19:36

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XCCV8190.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	0.2851	0.2857	0.1000	50.1	50.0	0.2	50.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1386	0.1274	0.0100	46.0	50.0	-8.1	50.0
Chloromethane	Ave	0.3961	0.3737	0.1000	47.2	50.0	-5.7	50.0
Vinyl chloride	Ave	0.2902	0.2784	0.1000	48.0	50.0	-4.1	50.0
Butadiene	Ave	0.2344	0.2335	0.0100	49.8	50.0	-0.4	50.0
Bromomethane	Ave	0.0892	0.1002	0.1000	56.1	50.0	12.3	50.0
Chloroethane	Ave	0.0917	0.0861*	0.1000	47.0	50.0	-6.1	50.0
Trichlorofluoromethane	Ave	0.2097	0.2324	0.1000	55.4	50.0	10.8	50.0
Dichlorofluoromethane	Ave	0.2267	0.2435	0.0100	53.7	50.0	7.4	50.0
Ethyl ether	Ave	0.1169	0.1168	0.0100	50.0	50.0	-0.0	50.0
1,1-Dichloroethene	Ave	0.2777	0.2583	0.1000	46.5	50.0	-7.0	50.0
Carbon disulfide	Ave	0.9642	0.9000	0.1000	46.7	50.0	-6.7	50.0
Ethanol	Ave	0.0014	0.0014*	0.0100	1930	2000	-3.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1866	0.1794	0.1000	48.1	50.0	-3.9	50.0
Iodomethane	Ave	0.3400	0.3240	0.0100	47.7	50.0	-4.7	50.0
Acrolein	Ave	0.0188	0.0192	0.0010	255	250	2.1	50.0
3-Chloro-1-propene	Ave	0.2872	0.2816	0.0100	49.0	50.0	-1.9	50.0
Isopropyl alcohol	Qua		0.0068*	0.0100	497	500	-0.5	50.0
Methylene Chloride	Ave	0.2540	0.2299	0.1000	45.3	50.0	-9.5	50.0
Acetone	Lin		0.0315*	0.1000	41.7	50.0	-16.5	50.0
trans-1,2-Dichloroethene	Ave	0.2931	0.2712	0.1000	46.3	50.0	-7.5	50.0
Methyl acetate	Ave	0.0075	0.0071*	0.1000	234	250	-6.5	50.0
Hexane	Ave	0.0934	0.0886	0.0100	47.5	50.0	-5.1	50.0
Methyl tert-butyl ether	Ave	0.4242	0.4041	0.1000	47.6	50.0	-4.7	50.0
2-Methyl-2-propanol	Lin1		0.0104	0.0100	464	500	-7.2	50.0
Acetonitrile	Ave	0.0143	0.0140	0.0010	488	500	-2.4	50.0
Isopropyl ether	Ave	0.7615	0.7525	0.0100	49.4	50.0	-1.2	50.0
2-Chloro-1,3-butadiene	Ave	0.4796	0.4698	0.0100	49.0	50.0	-2.0	50.0
1,1-Dichloroethane	Ave	0.5058	0.4580	0.2000	45.3	50.0	-9.4	50.0
Acrylonitrile	Ave	0.0449	0.0423	0.0100	471	500	-5.8	50.0
Tert-butyl ethyl ether	Ave	0.5565	0.5954	0.0100	53.5	50.0	7.0	50.0
Vinyl acetate	Ave	0.3066	0.3646	0.0100	59.5	50.0	18.9	50.0
cis-1,2-Dichloroethene	Ave	0.2872	0.2697	0.1000	47.0	50.0	-6.1	50.0
2,2-Dichloropropane	Ave	0.2720	0.2394	0.0100	44.0	50.0	-12.0	50.0
Cyclohexane	Ave	0.4834	0.4484	0.1000	46.4	50.0	-7.2	50.0
Bromochloromethane	Ave	0.0870	0.0861	0.0100	49.5	50.0	-1.1	50.0
Chloroform	Ave	0.4309	0.3976	0.2000	46.1	50.0	-7.7	50.0
Carbon tetrachloride	Ave	0.3141	0.2953	0.1000	47.0	50.0	-6.0	50.0
Ethyl acetate	Lin1		0.0166	0.0100	98.1	100	-1.9	50.0
1,1,1-Trichloroethane	Ave	0.3787	0.3590	0.1000	47.4	50.0	-5.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCVC 160-320393/9 Calibration Date: 08/02/2017 19:36

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XCCV8190.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-Dichloropropene	Ave	0.4009	0.3687	0.0100	46.0	50.0	-8.0	50.0
2-Butanone (MEK)	Ave	0.0545	0.0529*	0.1000	48.6	50.0	-2.8	50.0
Isooctane	Ave	1.315	1.232	0.0100	46.9	50.0	-6.3	50.0
n-Heptane	Ave	0.5425	0.5269	0.0100	48.6	50.0	-2.9	50.0
Benzene	Ave	1.139	1.007	0.5000	44.2	50.0	-11.5	50.0
Propionitrile	Ave	0.0161	0.0150	0.0010	466	500	-6.8	50.0
Methacrylonitrile	Ave	0.0751	0.0735	0.0100	489	500	-2.2	50.0
Tert-amyl methyl ether	Ave	0.3956	0.4230	0.0100	53.5	50.0	6.9	50.0
1,2-Dichloroethane	Ave	0.2313	0.2196	0.1000	47.5	50.0	-5.1	50.0
Isobutyl alcohol	Lin1		0.0031	0.0010	1150	1250	-8.2	50.0
Methylcyclohexane	Ave	0.4753	0.4422	0.1000	46.5	50.0	-7.0	50.0
Trichloroethene	Ave	0.2939	0.2573	0.2000	43.8	50.0	-12.5	50.0
n-Butanol	Lin1		0.0031*	0.0100	1080	1250	-13.3	50.0
Dibromomethane	Ave	0.0945	0.0921	0.0100	48.7	50.0	-2.6	50.0
1,2-Dichloropropane	Ave	0.2517	0.2372	0.1000	47.1	50.0	-5.8	50.0
Bromodichloromethane	Ave	0.2705	0.2684	0.2000	49.6	50.0	-0.8	50.0
Ethyl acrylate	Ave	0.1598	0.1624	0.0100	50.8	50.0	1.6	50.0
Methyl methacrylate	Ave	0.0877	0.0913	0.0100	104	100	4.2	50.0
1,4-Dioxane	Ave	0.0012	0.0012	0.0010	1030	1000	3.1	50.0
cis-1,3-Dichloropropene	Ave	0.3187	0.3252	0.2000	51.0	50.0	2.0	50.0
Toluene	Ave	1.145	1.044	0.4000	45.6	50.0	-8.9	50.0
2-Nitropropane	QuaF		0.0459	0.0100	95.4	100	-4.6	50.0
Tetrachloroethene	Ave	0.3386	0.3171	0.2000	46.8	50.0	-6.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1890	0.1846	0.1000	48.8	50.0	-2.3	50.0
trans-1,3-Dichloropropene	Ave	0.4130	0.4081	0.1000	49.4	50.0	-1.2	50.0
1,1,2-Trichloroethane	Ave	0.2209	0.1996	0.1000	45.2	50.0	-9.7	50.0
Ethyl methacrylate	Lin1		0.2956	0.0100	41.8	50.0	-16.5	50.0
Dibromochloromethane	Ave	0.2470	0.2382	0.1000	48.2	50.0	-3.6	50.0
1,3-Dichloropropane	Ave	0.4659	0.4281	0.0100	45.9	50.0	-8.1	50.0
1,2-Dibromoethane	Lin1		0.2067	0.1000	43.8	50.0	-12.4	50.0
n-Butyl acetate	QuaF		0.3204	0.0100	46.4	50.0	-7.1	50.0
2-Hexanone	Lin1		0.1308	0.1000	42.0	50.0	-16.0	50.0
1-Chlorohexane	Ave	0.7493	0.6494	0.0100	43.3	50.0	-13.3	50.0
Chlorobenzene	Ave	1.059	0.9824	0.5000	46.4	50.0	-7.2	50.0
Ethylbenzene	Ave	2.156	2.012	0.1000	46.7	50.0	-6.7	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2995	0.2863	0.0100	47.8	50.0	-4.4	50.0
m,p-Xylenes	Ave	0.7659	0.7236	0.1000	47.2	50.0	-5.5	50.0
o-Xylene	Ave	0.6996	0.6886	0.3000	49.2	50.0	-1.6	50.0
Styrene	Ave	1.063	1.047	0.3000	49.3	50.0	-1.5	50.0
Bromoform	Ave	0.2790	0.2698	0.1000	48.4	50.0	-3.3	50.0
Isopropylbenzene	Ave	4.824	4.638	0.1000	48.1	50.0	-3.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Lab Sample ID: CCVC 160-320393/9 Calibration Date: 08/02/2017 19:36

Instrument ID: VMSX Calib Start Date: 06/30/2017 09:17

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 06/30/2017 12:12

Lab File ID: XCCV8190.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
Bromobenzene	Ave	0.8599	0.8466	0.0100	49.2	50.0	-1.5	50.0
N-Propylbenzene	Ave	5.829	5.581	0.0100	47.9	50.0	-4.3	50.0
1,1,2,2-Tetrachloroethane	Ave	0.6439	0.5679	0.3000	44.1	50.0	-11.8	50.0
2-Chlorotoluene	Ave	3.324	3.071	0.0100	46.2	50.0	-7.6	50.0
1,3,5-Trimethylbenzene	Ave	3.571	3.433	0.0100	48.1	50.0	-3.9	50.0
1,2,3-Trichloropropane	Ave	0.1764	0.1570	0.0100	44.5	50.0	-11.0	50.0
Cyclohexanone	Lin1		0.0125	0.0010	384	500	-23.2	50.0
trans-1,4-Dichloro-2-butene	Lin1		0.1573	0.0100	41.0	50.0	-18.1	50.0
4-Chlorotoluene	Ave	3.318	3.124	0.0100	47.1	50.0	-5.8	50.0
tert-Butylbenzene	Ave	3.170	3.089	0.0100	48.7	50.0	-2.6	50.0
1,2,4-Trimethylbenzene	Ave	3.547	3.397	0.0100	47.9	50.0	-4.2	50.0
sec-Butylbenzene	Ave	5.003	4.836	0.0100	48.3	50.0	-3.4	50.0
p-Isopropyltoluene	Ave	3.806	3.796	0.0100	49.9	50.0	-0.3	50.0
1,3-Dichlorobenzene	Ave	1.730	1.610	0.6000	46.5	50.0	-6.9	50.0
1,4-Dichlorobenzene	Ave	1.633	1.529	0.5000	46.8	50.0	-6.4	50.0
1,2,3-Trimethylbenzene	Ave	3.207	2.974	0.0100	46.4	50.0	-7.3	50.0
Benzyl chloride	Lin1		0.1783	0.0100	47.0	50.0	-6.0	50.0
n-Butylbenzene	Ave	0.9491	0.9754	0.0100	51.4	50.0	2.8	50.0
1,2-Dichlorobenzene	Ave	1.427	1.352	0.4000	47.4	50.0	-5.3	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.0829	0.0719	0.0500	43.3	50.0	-13.3	50.0
1,3,5-Trichlorobenzene	Ave	1.109	1.104	0.0100	49.8	50.0	-0.4	50.0
n-Nonyl Aldehyde	Qua		0.3459	0.0100	61.5	50.0	23.0	50.0
Hexachlorobutadiene	Ave	0.5039	0.5044	0.0100	50.1	50.0	0.1	50.0
1,2,4-Trichlorobenzene	Ave	0.8494	0.8483	0.2000	49.9	50.0	-0.1	50.0
Naphthalene	Ave	1.536	1.436	0.0100	46.7	50.0	-6.5	50.0
1,2,3-Trichlorobenzene	Ave	0.7001	0.6964	0.0100	49.7	50.0	-0.5	50.0
Dibromofluoromethane (Surr)	Ave	0.1936	0.1906	0.0100	49.2	50.0	-1.5	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1824	0.1823	0.0100	50.0	50.0	-0.0	50.0
Toluene-d8 (Surr)	Ave	1.599	1.527	0.0100	47.7	50.0	-4.5	50.0
4-Bromofluorobenzene (Surr)	Ave	1.338	1.217	0.0100	45.5	50.0	-9.0	50.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XCCV8190.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 02-Aug-2017 19:36:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011097-009
Misc. Info.: CCVC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 07-Aug-2017 20:56:23 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: hannj Date: 07-Aug-2017 20:56:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	99	493913	50.0	50.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	220292	50.0	46.0	
3 Chloromethane	50	2.091	2.091	0.000	99	646087	50.0	47.2	
4 Vinyl chloride	62	2.197	2.197	0.000	98	481331	50.0	48.0	
121 Butadiene	39	2.221	2.221	0.000	89	403732	50.0	49.8	
5 Bromomethane	94	2.576	2.576	0.000	91	173200	50.0	56.1	
6 Chloroethane	64	2.741	2.741	0.000	99	148928	50.0	47.0	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	401864	50.0	55.4	
122 Dichlorofluoromethane	67	3.014	3.014	0.000	97	421061	50.0	53.7	
8 Ethyl ether	74	3.357	3.357	0.000	93	201966	50.0	50.0	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	96	446529	50.0	46.5	
10 Carbon disulfide	76	3.617	3.617	0.000	99	1556111	50.0	46.7	
11 Ethanol	45	3.617	3.617	0.000	25	95695	2000.0	1928.8	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	95	310095	50.0	48.1	
13 Iodomethane	142	3.795	3.795	0.000	97	560224	50.0	47.7	
14 Acrolein	56	4.150	4.150	0.000	100	165862	250.0	255.2	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	486909	50.0	49.0	
16 Isopropyl alcohol	45	4.505	4.505	0.000	97	117227	500.0	497.3	
17 Methylene Chloride	84	4.528	4.528	0.000	95	397512	50.0	45.3	
18 Acetone	43	4.658	4.658	0.000	99	54418	50.0	41.7	
19 trans-1,2-Dichloroethene	96	4.800	4.800	0.000	98	468911	50.0	46.3	
20 Methyl acetate	74	4.883	4.883	0.000	98	60944	250.0	233.9	
21 Hexane	86	4.942	4.942	0.000	88	153224	50.0	47.5	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	96	698587	50.0	47.6	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	96	179500	500.0	463.9	
24 Acetonitrile	41	5.380	5.380	0.000	99	242054	500.0	488.1	
25 Isopropyl ether	45	5.640	5.640	0.000	95	1301007	50.0	49.4	
27 2-Chloro-1,3-butadiene	53	5.735	5.735	0.000	92	812337	50.0	49.0	
28 1,1-Dichloroethane	63	5.771	5.771	0.000	97	791828	50.0	45.3	
S 26 1,2-Dichloroethene, Total	96				0			93.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	99	730634	500.0	471.0	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	98	1029402	50.0	53.5	
31 Vinyl acetate	43	6.208	6.208	0.000	97	630289	50.0	59.5	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	80	466341	50.0	47.0	
33 2,2-Dichloropropane	77	6.705	6.705	0.000	93	413925	50.0	44.0	
34 Cyclohexane	84	6.800	6.800	0.000	90	775169	50.0	46.4	
35 Chlorobromomethane	128	6.824	6.824	0.000	95	148789	50.0	49.5	
36 Chloroform	83	6.954	6.954	0.000	93	687406	50.0	46.1	
37 Carbon tetrachloride	117	7.108	7.108	0.000	98	510515	50.0	47.0	
38 Tetrahydrofuran	71	7.167	7.167	0.000	91	44622	100.0	100.3	
39 Ethyl acetate	45	7.179	7.179	0.000	97	57541	100.0	98.1	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	91	329603	50.0	49.2	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	620735	50.0	47.4	
42 1,1-Dichloropropene	75	7.380	7.380	0.000	97	637469	50.0	46.0	
43 2-Butanone (MEK)	43	7.404	7.404	0.000	100	91472	50.0	48.6	
124 Isooctane	57	7.546	7.546	0.000	96	2130246	50.0	46.9	
117 n-Heptane	43	7.699	7.699	0.000	76	910928	50.0	48.6	
44 Benzene	78	7.711	7.711	0.000	96	1741649	50.0	44.2	
45 Propionitrile	54	7.770	7.770	0.000	94	259453	500.0	466.0	
46 Methacrylonitrile	41	7.806	7.806	0.000	92	1270338	500.0	488.9	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	88	315201	50.0	50.0	
48 Tert-amyl methyl ether	73	7.912	7.912	0.000	96	731321	50.0	53.5	
49 1,2-Dichloroethane	62	7.983	7.983	0.000	96	379680	50.0	47.5	
50 Isobutyl alcohol	42	8.102	8.102	0.000	95	131893	1250.0	1147.7	
* 51 Fluorobenzene	96	8.267	8.267	0.000	99	1728949	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.445	0.000	90	764552	50.0	46.5	
53 Trichloroethene	95	8.480	8.480	0.000	99	444918	50.0	43.8	
54 n-Butanol	56	8.989	8.989	0.000	90	134279	1250.0	1083.7	
55 Dibromomethane	93	9.001	9.001	0.000	97	159222	50.0	48.7	
56 1,2-Dichloropropane	63	9.143	9.143	0.000	97	410149	50.0	47.1	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	280857	50.0	50.8	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	464021	50.0	49.6	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	315856	100.0	104.2	
59 1,4-Dioxane	88	9.498	9.498	0.000	80	41544	1000.0	1031.4	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	89	39971	NC	NC	
61 cis-1,3-Dichloropropene	75	10.030	10.030	0.000	96	562299	50.0	51.0	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1606996	50.0	47.7	
63 Toluene	92	10.314	10.314	0.000	98	1098636	50.0	45.6	
64 2-Nitropropane	43	10.622	10.622	0.000	98	96644	100.0	95.4	
65 Tetrachloroethene	164	10.776	10.776	0.000	95	333852	50.0	46.8	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	97	194306	50.0	48.8	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	94	429565	50.0	49.4	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	89	210107	50.0	45.2	
69 Ethyl methacrylate	69	11.048	11.048	0.000	88	311233	50.0	41.8	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	250763	50.0	48.2	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	92	450677	50.0	45.9	
72 Ethylene Dibromide	107	11.450	11.450	0.000	98	217581	50.0	43.8	
S 73 1,3-Dichloropropene, Total	75				0			100.4	
118 n-Butyl acetate	43	11.640	11.640	0.000	98	337251	50.0	46.4	
74 2-Hexanone	43	11.734	11.734	0.000	96	137642	50.0	42.0	
* 76 Chlorobenzene-d5	117	11.995	11.995	0.000	88	1052733	50.0	50.0	
75 1-Chlorohexane	91	12.007	12.007	0.000	77	683589	50.0	43.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.007	12.007	0.000	97	1034244	50.0	46.4	
78 Ethylbenzene	91	12.042	12.042	0.000	98	2118439	50.0	46.7	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	95	301405	50.0	47.8	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	96	761772	50.0	47.2	
82 o-Xylene	106	12.622	12.622	0.000	97	724930	50.0	49.2	
83 Styrene	104	12.669	12.669	0.000	96	1102723	50.0	49.3	
84 Bromoform	173	12.681	12.681	0.000	96	112666	50.0	48.4	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1936663	50.0	48.1	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	508072	50.0	45.5	
87 Bromobenzene	156	13.273	13.273	0.000	95	353488	50.0	49.2	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2330324	50.0	47.9	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	237112	50.0	44.1	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	1282301	50.0	46.2	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1433262	50.0	48.1	
92 1,2,3-Trichloropropane	110	13.498	13.498	0.000	80	65553	50.0	44.5	
93 trans-1,4-Dichloro-2-buten	53	13.545	13.545	0.000	84	65674	50.0	41.0	
94 Cyclohexanone	55	13.545	13.545	0.000	75	52203	500.0	383.9	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	1304612	50.0	47.1	
96 tert-Butylbenzene	119	13.782	13.782	0.000	93	1289816	50.0	48.7	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	98	1418367	50.0	47.9	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	2019083	50.0	48.3	
99 4-Isopropyltoluene	119	14.066	14.066	0.000	97	1584831	50.0	49.9	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	672227	50.0	46.5	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	97	417547	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	96	638396	50.0	46.8	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1241604	50.0	46.4	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	407293	50.0	51.4	
120 Benzyl chloride	126	14.432	14.432	0.000	89	74466	50.0	47.0	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	564355	50.0	47.4	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	84	30007	50.0	43.3	
106 n-Nonyl Aldehyde	57	15.296	15.296	0.000	57	144445	50.0	61.5	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	97	460923	50.0	49.8	
108 Hexachlorobutadiene	225	15.817	15.817	0.000	97	210626	50.0	50.1	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	354194	50.0	49.9	
110 Naphthalene	128	16.124	16.124	0.000	97	599626	50.0	46.7	
111 1,2,3-Trichlorobenzene	180	16.278	16.278	0.000	96	290773	50.0	49.7	
S 112 Xylenes, Total	106				0			96.5	
S 113 Trihalomethanes, Total	1				0			192.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

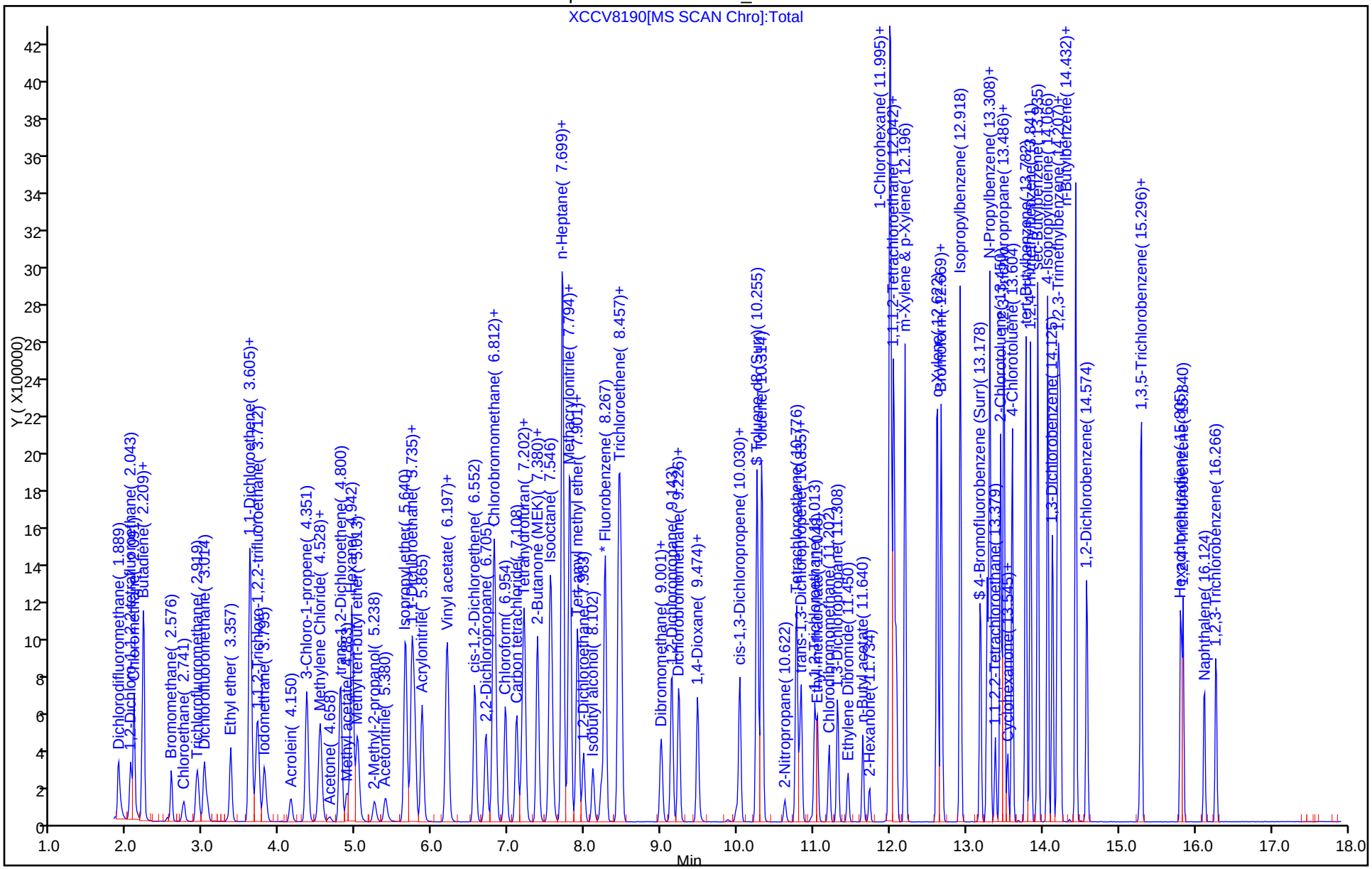
8260 NewWkMix_00230	Amount Added: 10.00	Units: uL	
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 07-Aug-2017 20:56:23 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XCCV8190.D

Injection Date:	02-Aug-2017 19:36:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	CCVC			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Target Compound Quantitation Report

Data File:	\\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XBFB7917.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	30-Jun-2017 08:28:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	2.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	BFB				
Operator ID:	ADB	Instrument ID:	VMSX		
Method:	\\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\5mL-8260-MSX.m				
Limit Group:	MSV-8260_DoD				
Last Update:	02-Jul-2017 18:52:35	Calib Date:	30-Jun-2017 12:12:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK033				
First Level Reviewer: hannj		Date:	02-Jul-2017 18:52:35		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 114 BFB	95	3.942	3.942	0.000	0	454494	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

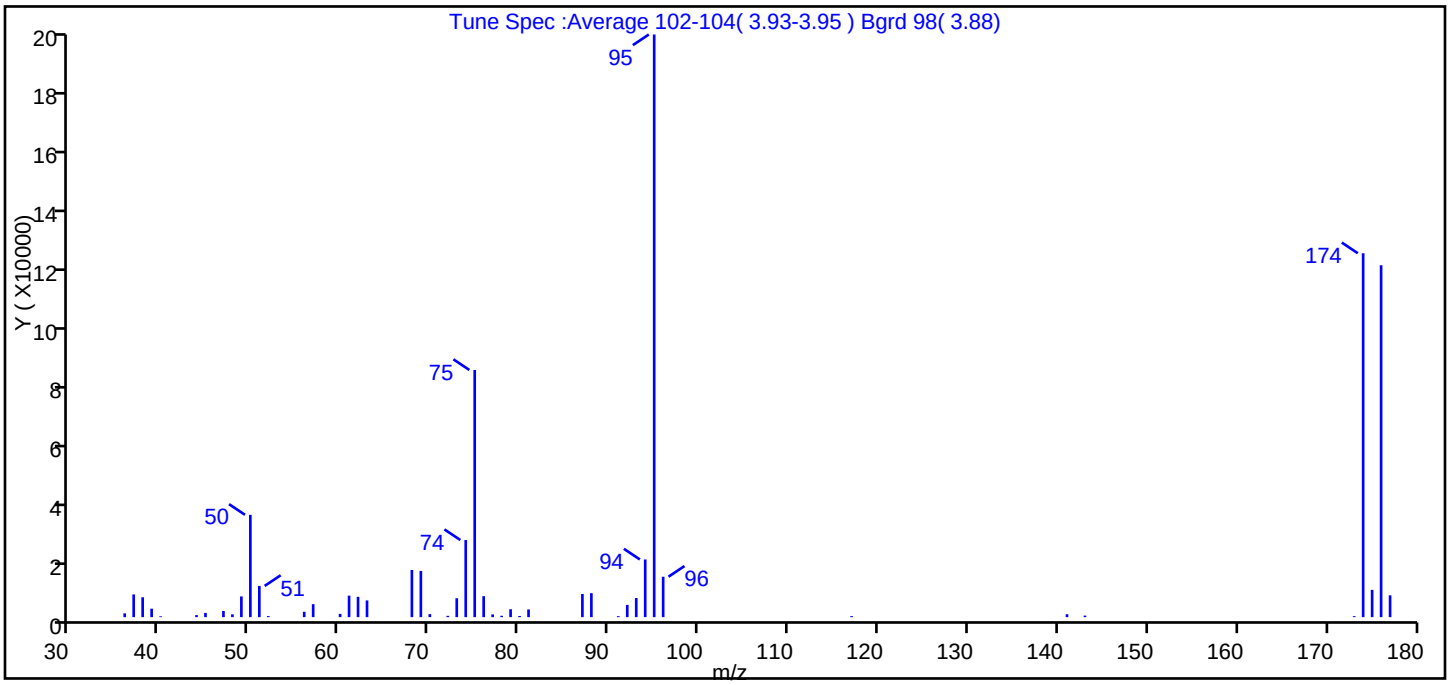
BFB_00071 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XBFB7917.D
Injection Date: 30-Jun-2017 08:28:30 Instrument ID: VMSX
Lims ID: BFB
Client ID:
Operator ID: ADB ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: 5mL-8260-MSX 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	17.6
75	30 to 60% of m/z 95	42.4
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	62.5
175	5 to 9% of m/z 174	4.7 (7.5)
176	Greater than 95% but less than 101% of m/z 174	60.4 (96.7)
177	5 to 9% of m/z 176	3.7 (6.2)

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XBFB7917.D\5mL-8260-MSX.rslt\spectra.d
Injection Date: 30-Jun-2017 08:28:30
Spectrum: Tune Spec :Average 102-104(3.93-3.95) Bgrd 98(3.88)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 48

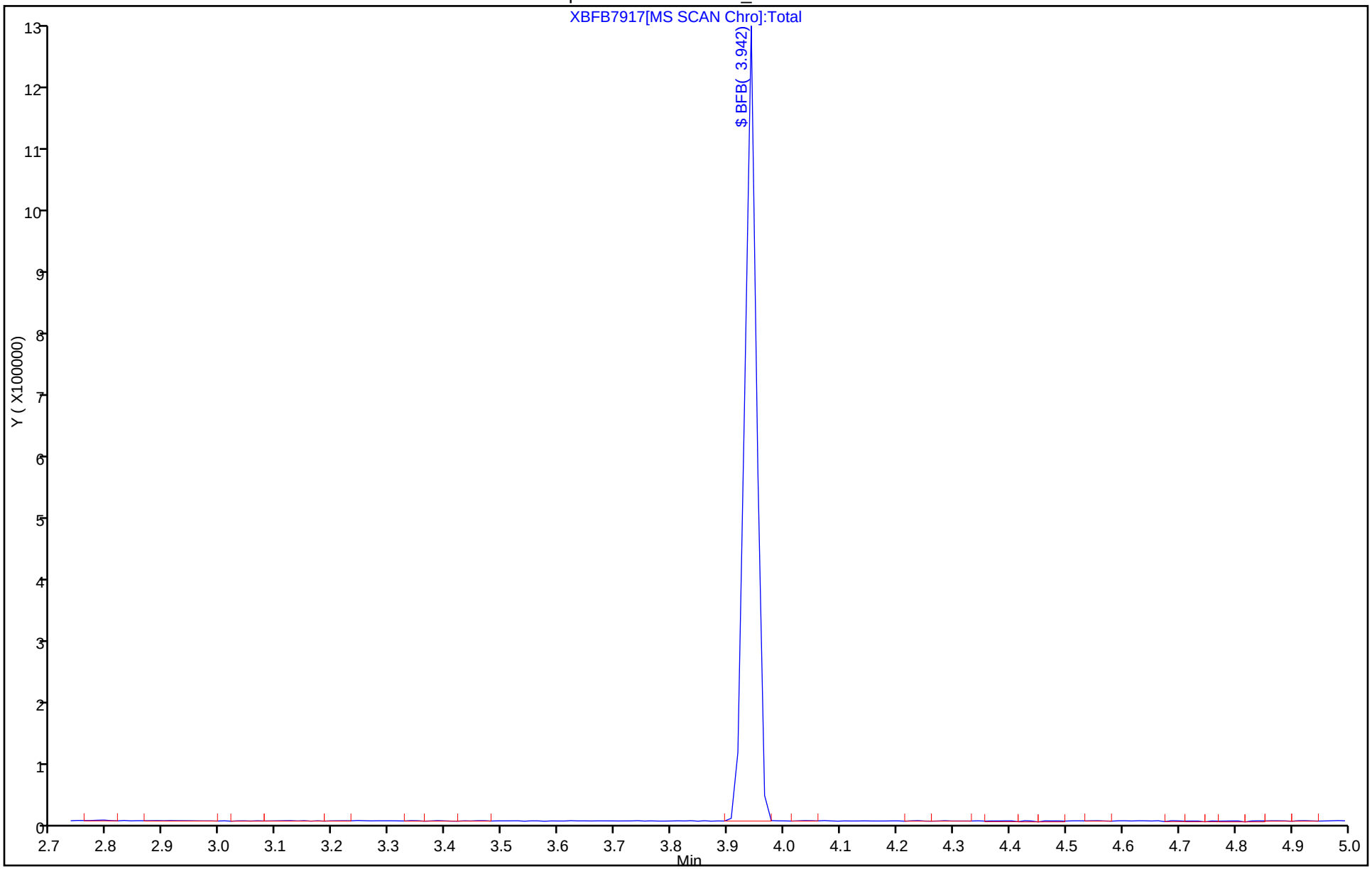
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1300	52.00	366	74.00	26392	93.00	6552
37.00	7774	56.00	1844	75.00	84624	94.00	19744
38.00	6804	57.00	4442	76.00	7183	95.00	199488
39.00	2894	60.00	1115	77.00	947	96.00	13839
40.00	287	61.00	7358	78.00	467	117.00	348
44.00	707	62.00	6953	79.00	2712	141.00	997
45.00	1451	63.00	5722	80.00	392	143.00	527
47.00	2112	68.00	16156	81.00	2633	173.00	337
48.00	960	69.00	15818	87.00	7932	174.00	124592
49.00	7090	70.00	1032	88.00	8210	175.00	9338
50.00	35032	72.00	451	91.00	338	176.00	120480
51.00	10686	73.00	6474	92.00	4188	177.00	7473

Report Date: 02-Jul-2017 18:52:36 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XBFB7917.D

Injection Date:	30-Jun-2017 08:28:30	Instrument ID:	VMSX	Operator ID:	ADB
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XBFB8164.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 01-Aug-2017 15:27:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: 160-0011086-002
Misc. Info.: BFB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 01-Aug-2017 23:43:17 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: hannj Date: 01-Aug-2017 23:43:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 114 BFB	95	3.942	3.942	0.000	0	276404	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

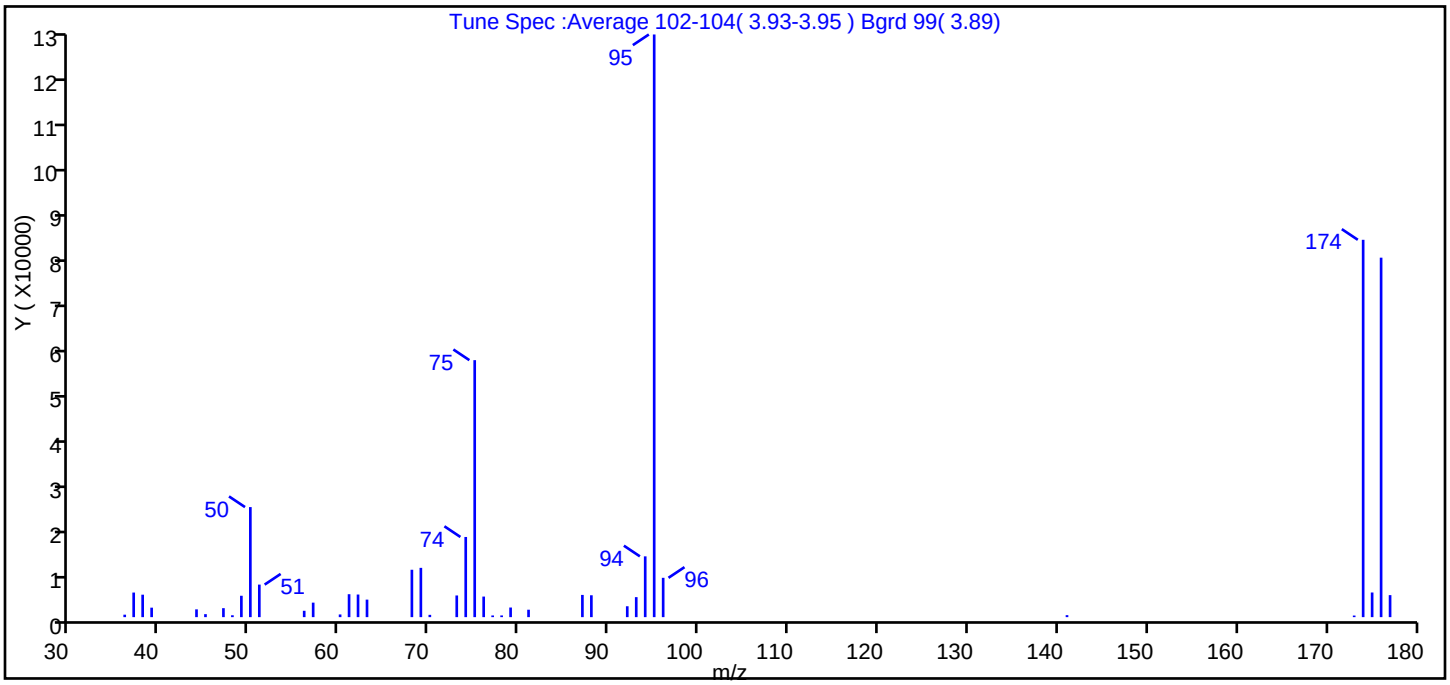
BFB_00072 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica St. Louis

Data File:	\\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XBFB8164.D				
Injection Date:	01-Aug-2017 15:27:30	Instrument ID:	VMSX		
Lims ID:	BFB				
Client ID:					
Operator ID:	JDH	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 uL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	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	18.9
75	30 to 60% of m/z 95	44.1
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	64.8
175	5 to 9% of m/z 174	4.2 (6.5)
176	Greater than 95% but less than 101% of m/z 174	61.7 (95.3)
177	5 to 9% of m/z 176	3.8 (6.1)

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XBFB8164.D\5mL-8260-MSX.rslt\spectra.d
Injection Date: 01-Aug-2017 15:27:30
Spectrum: Tune Spec :Average 102-104(3.93-3.95) Bgrd 99(3.89)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 41

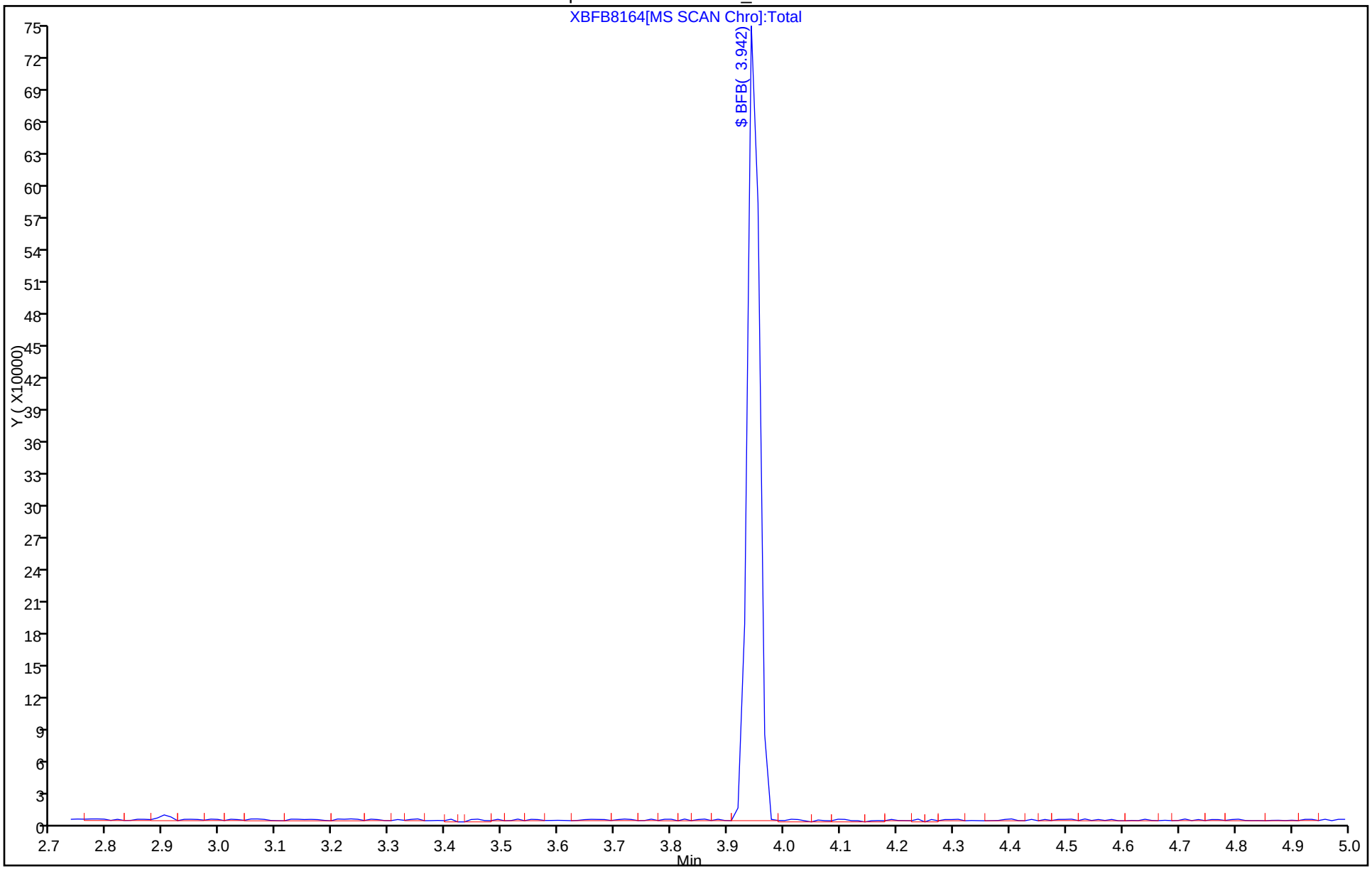
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	518	56.00	1339	75.00	54080	95.00	122616
37.00	5174	57.00	3053	76.00	4329	96.00	8277
38.00	4726	60.00	566	77.00	354	141.00	419
39.00	1996	61.00	4826	78.00	359	173.00	337
44.00	1640	62.00	4760	79.00	2025	174.00	79408
45.00	630	63.00	3687	81.00	1563	175.00	5187
47.00	1889	68.00	9973	87.00	4678	176.00	75648
48.00	396	69.00	10373	88.00	4604	177.00	4633
49.00	4500	70.00	485	92.00	2292		
50.00	23160	73.00	4562	93.00	4210		
51.00	6848	74.00	16872	94.00	12793		

Report Date: 01-Aug-2017 23:43:18 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XBFB8164.D

Injection Date:	01-Aug-2017 15:27:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XBFB8183.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 02-Aug-2017 16:21:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: 160-0011097-002
Misc. Info.: BFB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 19:33:08 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 19:33:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 114 BFB	95	3.942	3.942	0.000	0	260900	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

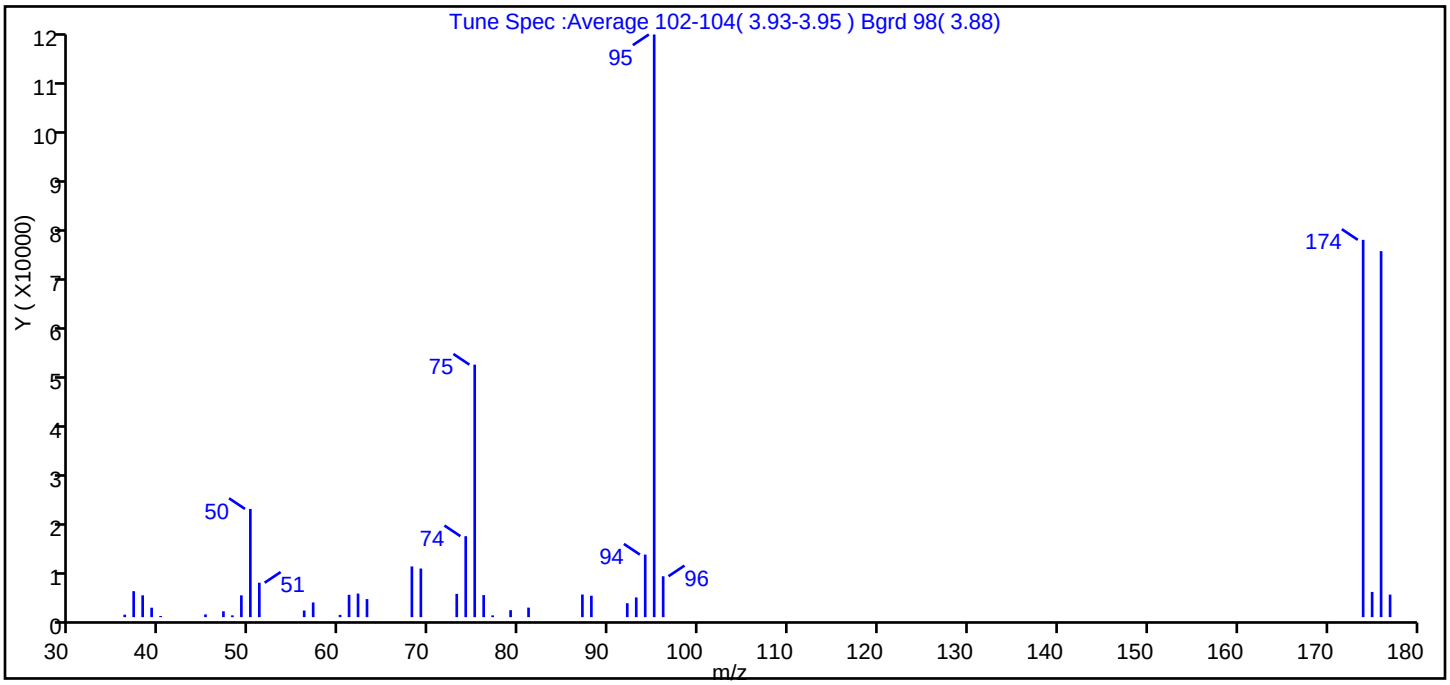
BFB_00073 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XBFB8183.D
Injection Date: 02-Aug-2017 16:21:30 Instrument ID: VMSX
Lims ID: BFB
Client ID:
Operator ID: JDH ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: 5mL-8260-MSX 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	18.6
75	30 to 60% of m/z 95	43.3
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	64.8
175	5 to 9% of m/z 174	4.3 (6.7)
176	Greater than 95% but less than 101% of m/z 174	62.8 (97.0)
177	5 to 9% of m/z 176	3.9 (6.2)

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XBFB8183.D\5mL-8260-MSX.rslt\spectra.d
Injection Date: 02-Aug-2017 16:21:30
Spectrum: Tune Spec :Average 102-104(3.93-3.95) Bgrd 98(3.88)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 37

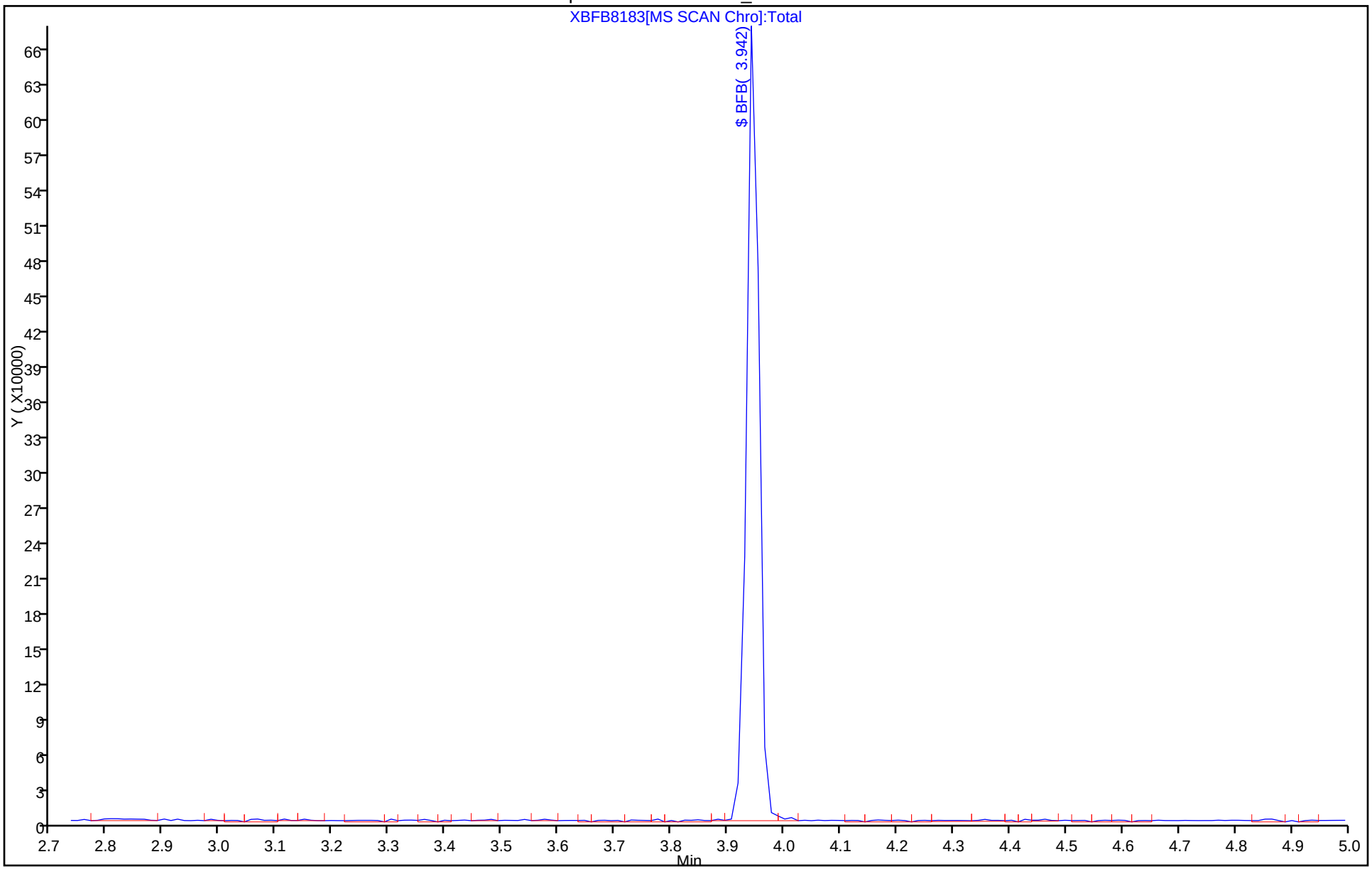
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	477	51.00	6613	74.00	15553	94.00	12014
37.00	4989	56.00	1277	75.00	48504	95.00	111920
38.00	4191	57.00	2821	76.00	4236	96.00	7853
39.00	1815	60.00	441	77.00	341	174.00	72472
40.00	228	61.00	4290	79.00	1337	175.00	4846
45.00	520	62.00	4532	81.00	1828	176.00	70304
47.00	1128	63.00	3474	87.00	4342	177.00	4336
48.00	340	68.00	9740	88.00	4114		
49.00	4188	69.00	9335	92.00	2680		
50.00	20784	73.00	4468	93.00	3789		

Report Date: 02-Aug-2017 19:33:09 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XBFB8183.D

Injection Date:	02-Aug-2017 16:21:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 160-320257/6

Matrix: Water | Lab File ID: XBLK8168.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 17:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.0	U	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 160-320257/6

Matrix: Water | Lab File ID: XBLK8168.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 17:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		81-118
460-00-4	4-Bromofluorobenzene (Surr)	90		85-114
1868-53-7	Dibromofluoromethane (Surr)	105		80-119
2037-26-5	Toluene-d8 (Surr)	92		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XBLK8168.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Aug-2017 17:50:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-006
Misc. Info.: LB 160-319969/1-A
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:47:24 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:40:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.878					ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.043					ND	
3 Chloromethane	50		2.091					ND	
4 Vinyl chloride	62		2.197					ND	
121 Butadiene	39		2.209					ND	
5 Bromomethane	94		2.576					ND	
6 Chloroethane	64		2.741					ND	
7 Trichlorofluoromethane	101		2.919					ND	
122 Dichlorofluoromethane	67		3.014					ND	
8 Ethyl ether	74		3.357					ND	
9 1,1-Dichloroethene	96		3.605					ND	
10 Carbon disulfide	76		3.605					ND	
11 Ethanol	45		3.605					ND	
12 1,1,2-Trichloro-1,2,2-trif	151		3.700					ND	
13 Iodomethane	142		3.795					ND	
14 Acrolein	56		4.138					ND	
15 3-Chloro-1-propene	39		4.351					ND	
16 Isopropyl alcohol	45		4.493					ND	
17 Methylene Chloride	84		4.528					ND	
18 Acetone	43		4.647					ND	
19 trans-1,2-Dichloroethene	96		4.789					ND	
20 Methyl acetate	74		4.871					ND	
21 Hexane	86		4.942					ND	
22 Methyl tert-butyl ether	73		5.013					ND	
23 2-Methyl-2-propanol	59		5.238					ND	
24 Acetonitrile	41		5.380					ND	
25 Isopropyl ether	45		5.641					ND	
27 2-Chloro-1,3-butadiene	53		5.723					ND	
28 1,1-Dichloroethane	63		5.759					ND	
S 26 1,2-Dichloroethene, Total	96		5.816					ND	
29 Acrylonitrile	53		5.865					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		6.185					ND	
31 Vinyl acetate	43		6.197					ND	
32 cis-1,2-Dichloroethene	96		6.552					ND	
33 2,2-Dichloropropane	77		6.705					ND	
34 Cyclohexane	84		6.800					ND	
35 Chlorobromomethane	128		6.824					ND	
36 Chloroform	83		6.954					ND	
37 Carbon tetrachloride	117		7.108					ND	
38 Tetrahydrofuran	71		7.167					ND	
39 Ethyl acetate	45		7.179					ND	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.202	-0.012	93	370196	50.0		52.3
40 1,1,1-Trichloroethane	97		7.202					ND	
42 1,1-Dichloropropene	75		7.380					ND	
43 2-Butanone (MEK)	43		7.392					ND	
124 Isooctane	57		7.546					ND	
117 n-Heptane	43		7.699					ND	
44 Benzene	78		7.699					ND	
45 Propionitrile	54		7.770					ND	
46 Methacrylonitrile	41		7.794					ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	31	360861	50.0		54.1
48 Tert-amyl methyl ether	73		7.901					ND	
49 1,2-Dichloroethane	62		7.983					ND	
50 Isobutyl alcohol	42		8.102					ND	
* 51 Fluorobenzene	96	8.255	8.267	-0.012	99	1826860	50.0		50.0
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55		8.445					ND	
53 Trichloroethene	95		8.469					ND	
A 126 C6-C12	1	8.921	(3.966-13.876)		0	1004537			NC
54 n-Butanol	56		8.989					ND	
55 Dibromomethane	93		9.001					ND	
56 1,2-Dichloropropane	63		9.131					ND	
123 Ethyl acrylate	55		9.226					ND	
57 Dichlorobromomethane	83		9.226					ND	
58 Methyl methacrylate	69		9.474					ND	
59 1,4-Dioxane	88		9.498					ND	
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63		9.983					ND	
61 cis-1,3-Dichloropropene	75		10.031					ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1682811	50.0		46.2
63 Toluene	92		10.315					ND	
64 2-Nitropropane	43		10.622					ND	
65 Tetrachloroethene	164		10.776					ND	
66 4-Methyl-2-pentanone (MIBK	43		10.811					ND	
67 trans-1,3-Dichloropropene	75		10.835					ND	
68 1,1,2-Trichloroethane	83		11.013					ND	
69 Ethyl methacrylate	69		11.048					ND	
70 Chlorodibromomethane	129		11.202					ND	
71 1,3-Dichloropropane	76		11.308					ND	
72 Ethylene Dibromide	107		11.450					ND	
S 73 1,3-Dichloropropene, Total	75		11.620					ND	
118 n-Butyl acetate	43		11.640					ND	
74 2-Hexanone	43		11.723					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	11.983	11.995	-0.012	87	1138730	50.0	50.0	
75 1-Chlorohexane	91		12.007					ND	
77 Chlorobenzene	112		12.007					ND	
78 Ethylbenzene	91		12.042					ND	
79 1,1,1,2-Tetrachloroethane	131		12.078					ND	
80 m-Xylene & p-Xylene	106		12.196					ND	
82 o-Xylene	106		12.610					ND	
83 Styrene	104		12.669					ND	
84 Bromoform	173		12.681					ND	
85 Isopropylbenzene	105		12.918					ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	82	535765	50.0	45.0	
87 Bromobenzene	156		13.273					ND	
88 N-Propylbenzene	91		13.308					ND	
89 1,1,2,2-Tetrachloroethane	83		13.379					ND	
90 2-Chlorotoluene	91		13.450					ND	
91 1,3,5-Trimethylbenzene	105		13.486					ND	
92 1,2,3-Trichloropropane	110		13.498					ND	
93 trans-1,4-Dichloro-2-buten	53		13.533					ND	
94 Cyclohexanone	55		13.545					ND	
95 4-Chlorotoluene	91		13.604					ND	
81 Pentachloroethane	167		13.776					ND	
96 tert-Butylbenzene	119		13.782					ND	
97 1,2,4-Trimethylbenzene	105		13.841					ND	
98 sec-Butylbenzene	105		13.935					ND	
99 4-Isopropyltoluene	119		14.066					ND	
100 1,3-Dichlorobenzene	146		14.125					ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	97	445299	50.0	50.0	
102 1,4-Dichlorobenzene	146		14.208					ND	
119 1,2,3-Trimethylbenzene	105		14.231					ND	
103 n-Butylbenzene	134		14.432					ND	
120 Benzyl chloride	126		14.432					ND	
104 1,2-Dichlorobenzene	146		14.574					ND	
105 1,2-Dibromo-3-Chloropropan	157		15.272					ND	
106 n-Nonyl Aldehyde	57		15.284					ND	
107 1,3,5-Trichlorobenzene	180		15.296					ND	
108 Hexachlorobutadiene	225		15.805					ND	
109 1,2,4-Trichlorobenzene	180		15.840					ND	
110 Naphthalene	128		16.113					ND	
111 1,2,3-Trichlorobenzene	180		16.266					ND	
S 112 Xylenes, Total	106		16.500					ND	
S 113 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

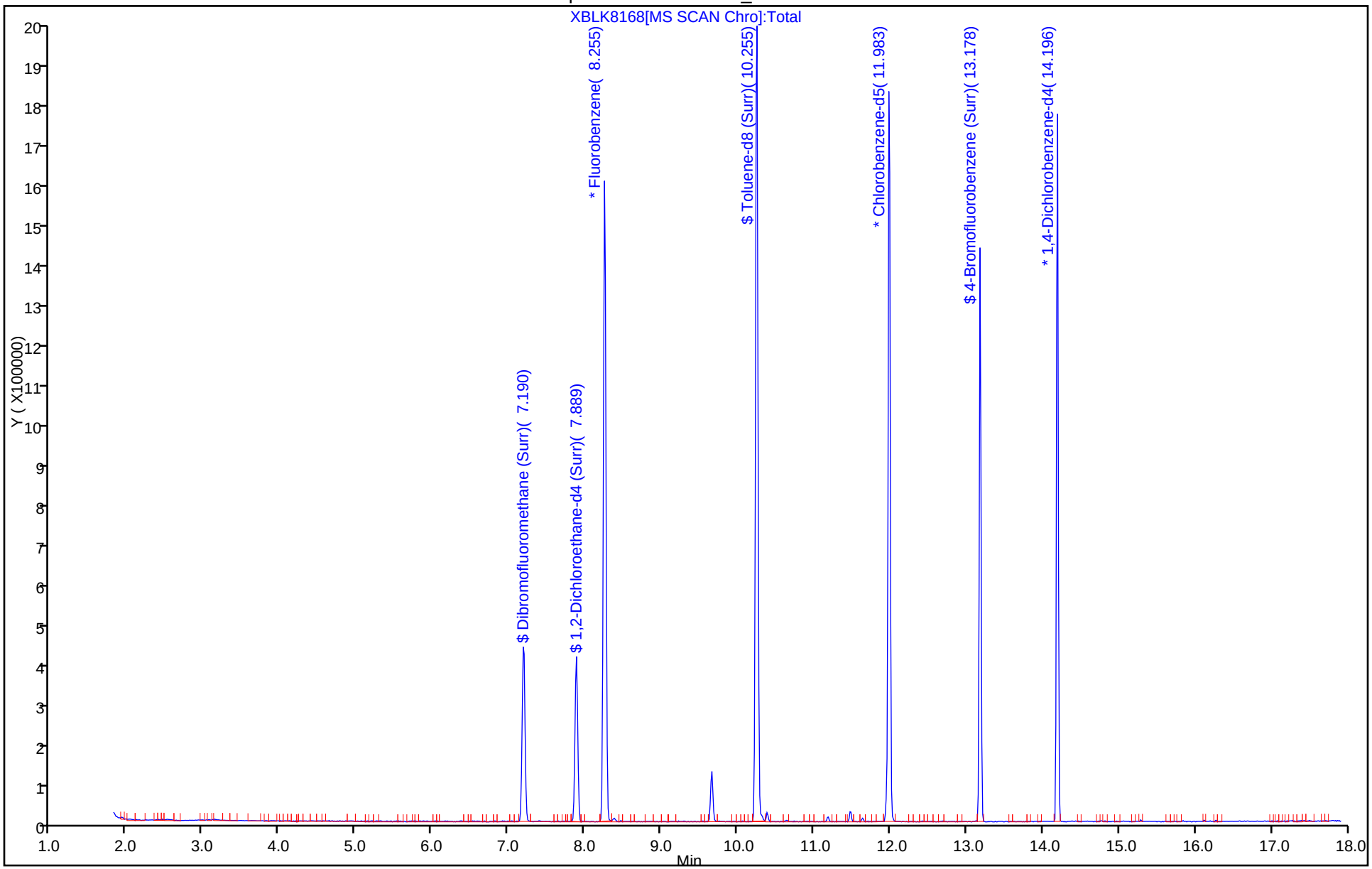
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:47:25 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XBLK8168.D

Injection Date:	01-Aug-2017 17:50:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XBLK8168.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Aug-2017 17:50:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-006
Misc. Info.: LB 160-319969/1-A
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:47:24 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:40:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	52.3	104.68
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	54.1	108.27
$ 62 Toluene-d8 (Surr)	50.0	46.2	92.42
$ 86 4-Bromofluorobenzene (Surr)	50.0	45.0	89.93

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 160-320393/7

Matrix: Water | Lab File ID: XBLK8188.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/02/2017 18:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320393 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.0	U	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 160-320393/7

Matrix: Water | Lab File ID: XBLK8188.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/02/2017 18:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320393 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	0.497	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		81-118
460-00-4	4-Bromofluorobenzene (Surr)	88		85-114
1868-53-7	Dibromofluoromethane (Surr)	104		80-119
2037-26-5	Toluene-d8 (Surr)	93		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XBLK8188.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Aug-2017 18:45:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011097-007
Misc. Info.: MB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 07-Aug-2017 21:16:41 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: hannj Date: 07-Aug-2017 21:16:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.889					ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.043					ND	
3 Chloromethane	50		2.091					ND	
4 Vinyl chloride	62		2.197					ND	
121 Butadiene	39		2.221					ND	
5 Bromomethane	94		2.576					ND	
6 Chloroethane	64		2.741					ND	
7 Trichlorofluoromethane	101		2.919					ND	
122 Dichlorofluoromethane	67		3.014					ND	
8 Ethyl ether	74		3.357					ND	
9 1,1-Dichloroethene	96		3.605					ND	
10 Carbon disulfide	76		3.617					ND	
11 Ethanol	45		3.617					ND	
12 1,1,2-Trichloro-1,2,2-trif	151		3.712					ND	
13 Iodomethane	142		3.795					ND	
14 Acrolein	56		4.150					ND	
15 3-Chloro-1-propene	39		4.351					ND	
16 Isopropyl alcohol	45		4.505					ND	
17 Methylene Chloride	84		4.528					ND	
18 Acetone	43		4.658					ND	
19 trans-1,2-Dichloroethene	96		4.800					ND	
20 Methyl acetate	74		4.883					ND	
21 Hexane	86		4.942					ND	
22 Methyl tert-butyl ether	73		5.013					ND	
23 2-Methyl-2-propanol	59		5.238					ND	
24 Acetonitrile	41		5.380					ND	
25 Isopropyl ether	45		5.640					ND	
27 2-Chloro-1,3-butadiene	53		5.735					ND	
28 1,1-Dichloroethane	63		5.771					ND	
S 26 1,2-Dichloroethene, Total	96		5.816					ND	
29 Acrylonitrile	53		5.865					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		6.185					ND	
31 Vinyl acetate	43		6.208					ND	
32 cis-1,2-Dichloroethene	96		6.552					ND	
33 2,2-Dichloropropane	77		6.705					ND	
34 Cyclohexane	84		6.800					ND	
35 Chlorobromomethane	128		6.824					ND	
36 Chloroform	83		6.954					ND	
37 Carbon tetrachloride	117		7.108					ND	
38 Tetrahydrofuran	71		7.167					ND	
39 Ethyl acetate	45		7.179					ND	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	93	366709	50.0	51.9	
40 1,1,1-Trichloroethane	97		7.202					ND	
42 1,1-Dichloropropene	75		7.380					ND	
43 2-Butanone (MEK)	43		7.404					ND	
124 Isooctane	57		7.546					ND	
117 n-Heptane	43		7.699					ND	
44 Benzene	78		7.711					ND	
45 Propionitrile	54		7.770					ND	
46 Methacrylonitrile	41		7.806					ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	31	358652	50.0	53.8	
48 Tert-amyl methyl ether	73		7.912					ND	
49 1,2-Dichloroethane	62		7.983					ND	
50 Isobutyl alcohol	42		8.102					ND	
* 51 Fluorobenzene	96	8.267	8.267	0.000	99	1825439	50.0	50.0	
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55		8.445					ND	
53 Trichloroethene	95	8.469	8.480	-0.011	89	5337		0.4973	
A 126 C6-C12	1	8.927	(3.966-13.888)		0	408123		NC	
54 n-Butanol	56		8.989					ND	
55 Dibromomethane	93		9.001					ND	
56 1,2-Dichloropropane	63		9.143					ND	
123 Ethyl acrylate	55		9.226					ND	
57 Dichlorobromomethane	83		9.226					ND	
58 Methyl methacrylate	69		9.474					ND	
59 1,4-Dioxane	88		9.498					ND	
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63		9.983					ND	
61 cis-1,3-Dichloropropene	75		10.030					ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1645518	50.0	46.7	
63 Toluene	92		10.314					ND	
64 2-Nitropropane	43		10.622					ND	
65 Tetrachloroethene	164		10.776					ND	
66 4-Methyl-2-pentanone (MIBK	43		10.811					ND	
67 trans-1,3-Dichloropropene	75		10.835					ND	
68 1,1,2-Trichloroethane	83		11.013					ND	
69 Ethyl methacrylate	69		11.048					ND	
70 Chlorodibromomethane	129		11.202					ND	
71 1,3-Dichloropropane	76		11.308					ND	
72 Ethylene Dibromide	107		11.450					ND	
S 73 1,3-Dichloropropene, Total	75		11.620					ND	
118 n-Butyl acetate	43		11.640					ND	
74 2-Hexanone	43		11.734					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	11.995	11.995	0.000	87	1102479	50.0	50.0	
75 1-Chlorohexane	91		12.007					ND	
77 Chlorobenzene	112		12.007					ND	
78 Ethylbenzene	91		12.042					ND	
79 1,1,1,2-Tetrachloroethane	131		12.078					ND	
80 m-Xylene & p-Xylene	106		12.196					ND	
82 o-Xylene	106		12.622					ND	
83 Styrene	104		12.669					ND	
84 Bromoform	173		12.681					ND	
85 Isopropylbenzene	105		12.918					ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	516989	50.0	44.1	
87 Bromobenzene	156		13.273					ND	
88 N-Propylbenzene	91		13.308					ND	
89 1,1,2,2-Tetrachloroethane	83		13.379					ND	
90 2-Chlorotoluene	91		13.450					ND	
91 1,3,5-Trimethylbenzene	105		13.486					ND	
92 1,2,3-Trichloropropane	110		13.498					ND	
93 trans-1,4-Dichloro-2-buten	53		13.545					ND	
94 Cyclohexanone	55		13.545					ND	
95 4-Chlorotoluene	91		13.604					ND	
81 Pentachloroethane	167		13.776					ND	
96 tert-Butylbenzene	119		13.782					ND	
97 1,2,4-Trimethylbenzene	105		13.841					ND	
98 sec-Butylbenzene	105		13.935					ND	
99 4-Isopropyltoluene	119		14.066					ND	
100 1,3-Dichlorobenzene	146		14.125					ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	97	438008	50.0	50.0	
102 1,4-Dichlorobenzene	146		14.207					ND	
119 1,2,3-Trimethylbenzene	105		14.231					ND	
103 n-Butylbenzene	134		14.432					ND	
120 Benzyl chloride	126		14.432					ND	
104 1,2-Dichlorobenzene	146		14.574					ND	
105 1,2-Dibromo-3-Chloropropan	157		15.272					ND	
106 n-Nonyl Aldehyde	57		15.296					ND	
107 1,3,5-Trichlorobenzene	180		15.296					ND	
108 Hexachlorobutadiene	225		15.817					ND	
109 1,2,4-Trichlorobenzene	180		15.840					ND	
110 Naphthalene	128		16.124					ND	
111 1,2,3-Trichlorobenzene	180		16.278					ND	
S 112 Xylenes, Total	106		16.500					ND	
S 113 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

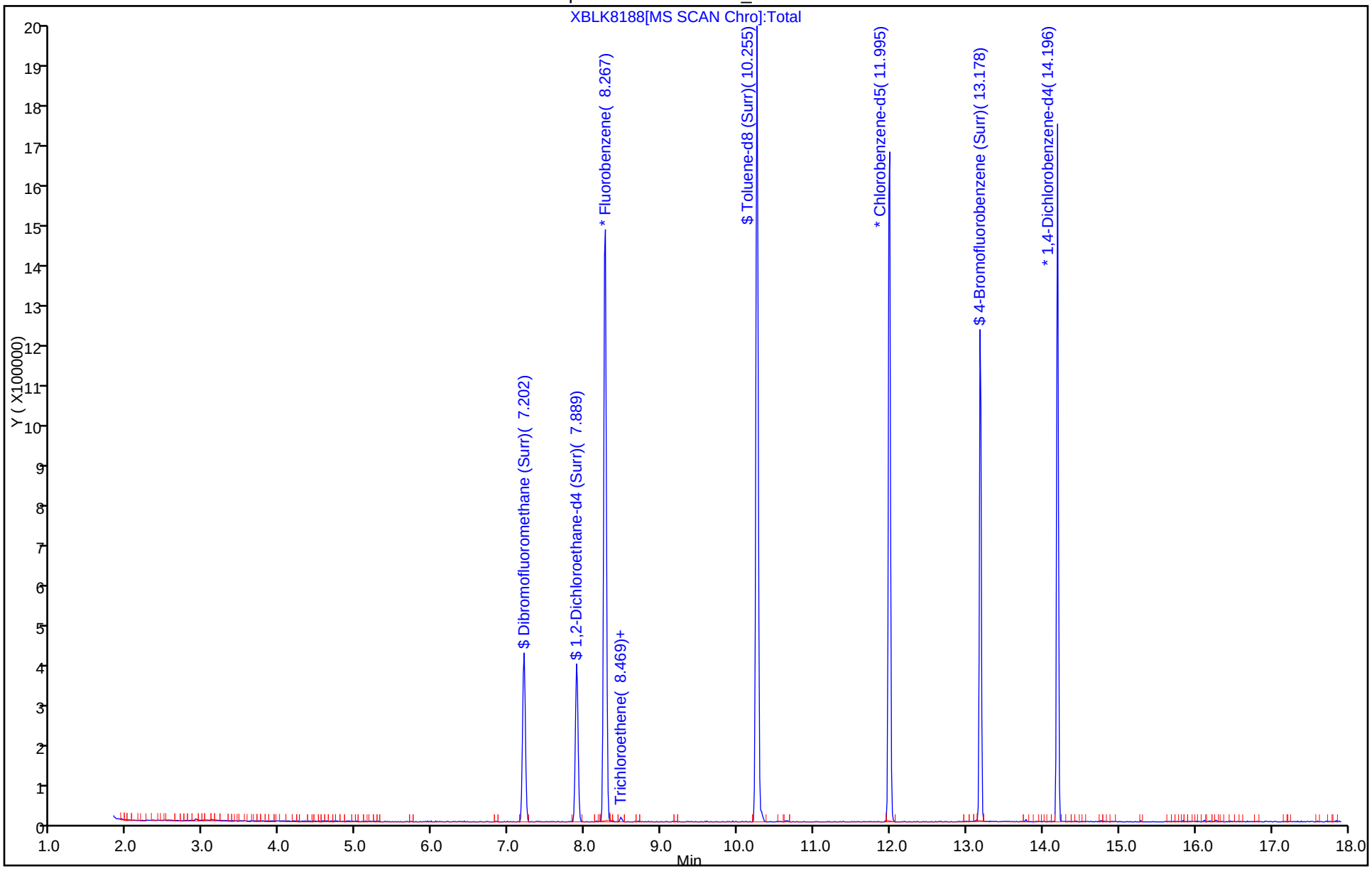
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 07-Aug-2017 21:16:51 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XBLK8188.D

Injection Date:	02-Aug-2017 18:45:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XBLK8188.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Aug-2017 18:45:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011097-007
Misc. Info.: MB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 07-Aug-2017 21:16:41 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: hannj Date: 07-Aug-2017 21:16:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	51.9	103.77
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	53.8	107.69
$ 62 Toluene-d8 (Surr)	50.0	46.7	93.34
$ 86 4-Bromofluorobenzene (Surr)	50.0	44.1	88.23

Report Date: 07-Aug-2017 21:16:51 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XBLK8188.D

Injection Date: 02-Aug-2017 18:45:30 Instrument ID: VMSX

Lims ID: MB

Client ID:

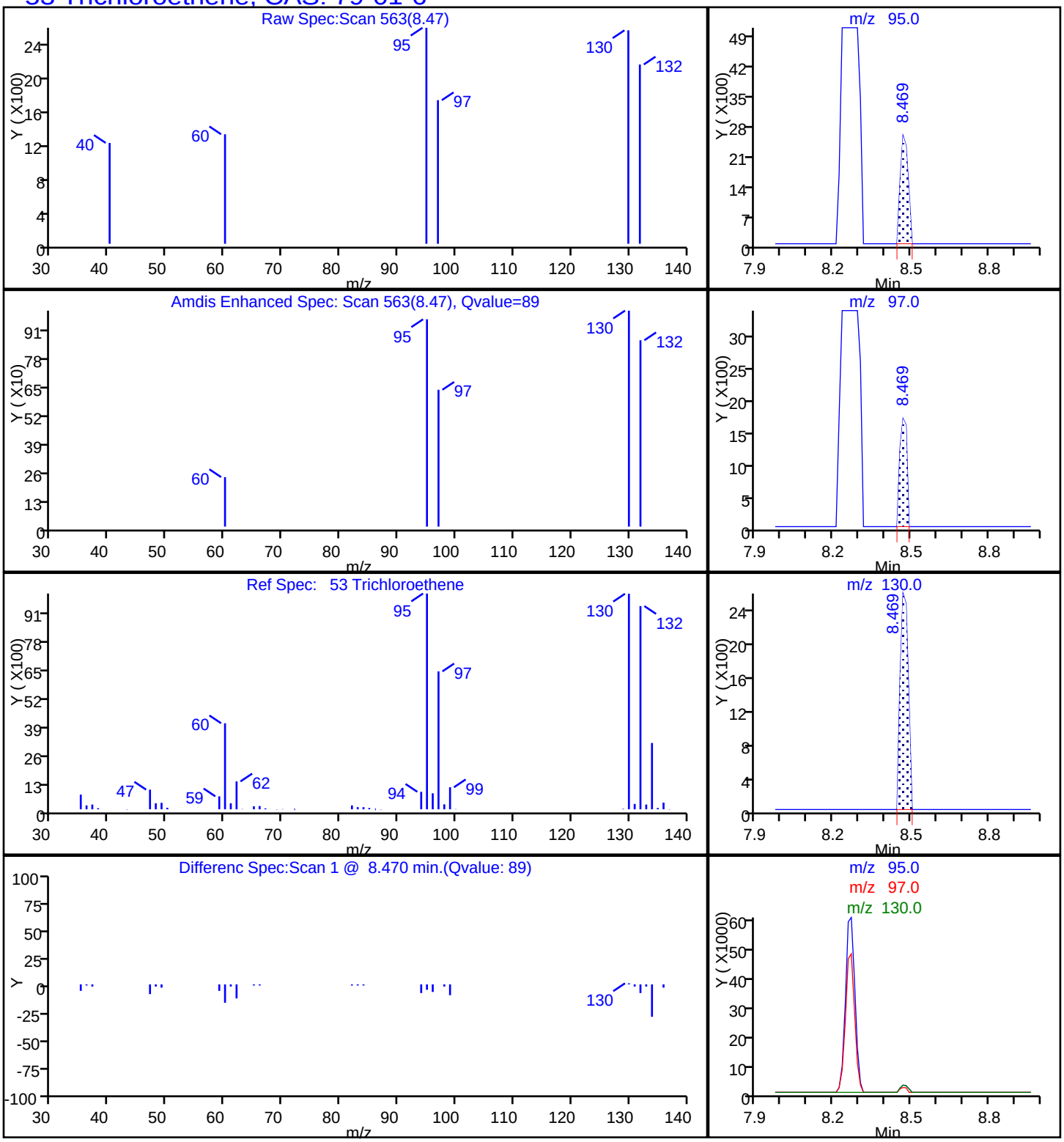
Operator ID: JDH ALS Bottle#: 6 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD

Column: Detector MS SCAN

53 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 160-320257/4

Matrix: Water | Lab File ID: XLCS8166.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 16:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	47.4		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	47.9		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	42.6		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	43.2		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	45.8		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	47.4		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	46.5		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	50.1		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	43.3		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	48.2		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	40.4		10	2.0	1.2
106-93-4	1,2-Dibromoethane	43.2		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	46.7		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	47.1		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	48.3		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	45.4		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	49.6		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	46.3		20	5.0	0.39
95-49-8	2-Chlorotoluene	47.2		5.0	2.0	0.34
591-78-6	2-Hexanone	40.1		20	2.0	0.59
106-43-4	4-Chlorotoluene	47.4		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	47.6		20	2.0	0.33
67-64-1	Acetone	39.7		20	10	6.7
71-43-2	Benzene	44.0		5.0	1.0	0.25
108-86-1	Bromobenzene	49.3		5.0	2.0	0.33
74-97-5	Bromochloromethane	50.0		5.0	2.0	0.55
75-27-4	Bromodichloromethane	49.5		5.0	2.0	0.25
75-25-2	Bromoform	48.1		5.0	1.0	0.37
74-83-9	Bromomethane	56.2		10	2.0	0.40
75-15-0	Carbon disulfide	47.5		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	48.0		5.0	1.0	0.36
108-90-7	Chlorobenzene	45.8		5.0	1.0	0.38
75-00-3	Chloroethane	46.5		10	1.0	0.38
67-66-3	Chloroform	46.1		5.0	1.0	0.15
74-87-3	Chloromethane	49.8		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	47.4		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 160-320257/4

Matrix: Water | Lab File ID: XLCS8166.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 16:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	52.3		5.0	1.0	0.34
124-48-1	Dibromochloromethane	49.0		5.0	1.0	0.33
74-95-3	Dibromomethane	48.8		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	51.9		10	2.0	0.45
100-41-4	Ethylbenzene	44.5		5.0	1.0	0.30
98-82-8	Isopropylbenzene	48.2		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	47.6		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	47.5		5.0	2.0	0.40
75-09-2	Methylene Chloride	45.3		7.5	5.0	1.7
91-20-3	Naphthalene	46.6		5.0	2.0	0.85
104-51-8	n-Butylbenzene	51.7		5.0	2.0	0.23
103-65-1	N-Propylbenzene	48.0		5.0	2.0	0.30
95-47-6	o-Xylene	48.0		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	49.5		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	47.6		5.0	2.0	0.31
100-42-5	Styrene	48.7		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	47.8		5.0	2.0	0.31
127-18-4	Tetrachloroethene	47.9		5.0	1.0	0.28
108-88-3	Toluene	45.8		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	47.4		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	50.3		5.0	1.0	0.35
79-01-6	Trichloroethene	44.1		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	59.1		5.0	2.0	0.22
75-01-4	Vinyl chloride	49.8		5.0	1.0	0.43
1330-20-7	Xylenes (total)	95.6		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		81-118
460-00-4	4-Bromofluorobenzene (Surr)	91		85-114
1868-53-7	Dibromofluoromethane (Surr)	98		80-119
2037-26-5	Toluene-d8 (Surr)	95		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XLCS8166.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Aug-2017 16:34:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-004
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:05:36 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:05:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.877	1.878	-0.001	99	539257	50.0	51.9	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	251209	50.0	49.7	
3 Chloromethane	50	2.090	2.091	-0.001	99	718236	50.0	49.8	
4 Vinyl chloride	62	2.197	2.197	0.000	98	526227	50.0	49.8	
121 Butadiene	39	2.209	2.209	0.000	90	446662	50.0	52.3	
5 Bromomethane	94	2.576	2.576	0.000	91	182691	50.0	56.2	
6 Chloroethane	64	2.741	2.741	0.000	99	155292	50.0	46.5	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	99	451464	50.0	59.1	
122 Dichlorofluoromethane	67	3.013	3.002	0.011	97	458293	50.0	55.5	
8 Ethyl ether	74	3.357	3.345	0.012	93	210880	50.0	49.5	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	95	480005	50.0	47.4	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1669818	50.0	47.5	
11 Ethanol	45	3.605	3.605	0.000	25	98427	2000.0	1882.7	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	325235	50.0	47.8	
13 Iodomethane	142	3.794	3.795	-0.001	97	608606	50.0	49.1	
14 Acrolein	56	4.138	4.138	0.000	99	181431	250.0	265.0	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	532403	50.0	50.9	
16 Isopropyl alcohol	45	4.493	4.493	0.000	98	120028	500.0	484.0	
17 Methylene Chloride	84	4.516	4.516	0.000	96	418857	50.0	45.3	
18 Acetone	43	4.646	4.647	-0.001	99	54709	50.0	39.7	
19 trans-1,2-Dichloroethene	96	4.788	4.789	-0.001	98	506549	50.0	47.4	
20 Methyl acetate	74	4.871	4.871	0.000	97	62200	250.0	226.5	
21 Hexane	86	4.942	4.942	0.000	87	171731	50.0	50.5	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	91	734497	50.0	47.5	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	96	183684	500.0	450.8	
24 Acetonitrile	41	5.380	5.380	0.000	100	248616	500.0	475.7	
25 Isopropyl ether	45	5.640	5.641	-0.001	95	1362122	50.0	49.1	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	92	854025	50.0	48.9	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	95	844686	50.0	45.8	
29 Acrylonitrile	53	5.853	5.854	-0.001	99	758183	500.0	463.8	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	98	1076113	50.0	53.1	

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	6.196	6.197	-0.001	97	657459	50.0	58.9	
32 cis-1,2-Dichloroethene	96	6.551	6.552	-0.001	80	496096	50.0	47.4	
33 2,2-Dichloropropane	77	6.693	6.694	-0.001	93	491087	50.0	49.6	
34 Cyclohexane	84	6.800	6.800	0.000	90	813583	50.0	46.2	
35 Chlorobromomethane	128	6.824	6.824	0.000	96	158507	50.0	50.0	
36 Chloroform	83	6.954	6.954	0.000	94	723530	50.0	46.1	
37 Carbon tetrachloride	117	7.096	7.096	0.000	98	549907	50.0	48.0	
38 Tetrahydrofuran	71	7.155	7.155	0.000	91	42731	100.0	91.1	
39 Ethyl acetate	45	7.167	7.167	0.000	99	57234	100.0	92.7	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.191	-0.001	93	344384	50.0	48.8	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	661286	50.0	47.9	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	97	678975	50.0	46.5	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	99	91914	50.0	46.3	
124 Isooctane	57	7.545	7.546	-0.001	96	2248922	50.0	47.0	
117 n-Heptane	43	7.699	7.699	0.000	74	958210	50.0	48.5	
44 Benzene	78	7.699	7.699	0.000	96	1827204	50.0	44.0	
45 Propionitrile	54	7.770	7.770	0.000	96	268861	500.0	458.3	
46 Methacrylonitrile	41	7.794	7.794	0.000	93	1294529	500.0	472.8	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	87	324836	50.0	48.9	
48 Tert-amyl methyl ether	73	7.900	7.901	-0.001	97	770568	50.0	53.5	
49 1,2-Dichloroethane	62	7.971	7.972	-0.001	97	393885	50.0	46.7	
50 Isobutyl alcohol	42	8.090	8.102	-0.012	95	136202	1250.0	1125.1	
* 51 Fluorobenzene	96	8.255	8.256	-0.001	99	1821827	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.433	0.000	91	807362	50.0	46.6	
53 Trichloroethene	95	8.468	8.469	-0.001	98	472464	50.0	44.1	
54 n-Butanol	56	8.989	8.989	0.000	90	137965	1250.0	1058.6	
55 Dibromomethane	93	9.001	9.001	0.000	94	167950	50.0	48.8	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	96	431794	50.0	47.1	
123 Ethyl acrylate	55	9.214	9.226	-0.012	98	291182	50.0	50.0	
57 Dichlorobromomethane	83	9.226	9.226	0.000	100	487815	50.0	49.5	
58 Methyl methacrylate	69	9.474	9.474	0.000	94	319879	100.0	100.1	
59 1,4-Dioxane	88	9.498	9.498	0.000	88	41404	1000.0	975.5	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	91	42515	NC	NC	
61 cis-1,3-Dichloropropene	75	10.018	10.019	-0.001	95	607114	50.0	52.3	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1680767	50.0	47.3	
63 Toluene	92	10.314	10.315	-0.001	99	1167172	50.0	45.8	
64 2-Nitropropane	43	10.610	10.610	0.000	99	105724	100.0	98.4	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	360971	50.0	47.9	
66 4-Methyl-2-pentanone (MIBK	43	10.799	10.800	-0.001	95	200076	50.0	47.6	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	461995	50.0	50.3	
68 1,1,2-Trichloroethane	83	11.012	11.013	-0.001	89	212011	50.0	43.2	
69 Ethyl methacrylate	69	11.036	11.036	0.000	91	322182	50.0	41.0	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	268987	50.0	49.0	
71 1,3-Dichloropropane	76	11.308	11.309	-0.001	91	470700	50.0	45.4	
72 Ethylene Dibromide	107	11.438	11.439	-0.001	98	226396	50.0	43.2	
118 n-Butyl acetate	43	11.640	11.640	0.000	99	363492	50.0	47.3	
74 2-Hexanone	43	11.722	11.723	-0.001	95	138135	50.0	40.1	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	1111764	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	84	782318	50.0	47.0	
77 Chlorobenzene	112	12.006	12.007	-0.001	96	1079009	50.0	45.8	
78 Ethylbenzene	91	12.042	12.042	0.000	96	2134837	50.0	44.5	
79 1,1,1,2-Tetrachloroethane	131	12.077	12.078	-0.001	96	315818	50.0	47.4	

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	12.196	12.196	0.000	97	810606	50.0	47.6	
82 o-Xylene	106	12.610	12.610	0.000	98	746082	50.0	48.0	
83 Styrene	104	12.669	12.669	0.000	95	1151985	50.0	48.7	
84 Bromoform	173	12.681	12.681	0.000	96	116896	50.0	48.1	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	2024596	50.0	48.2	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	528185	50.0	45.3	
87 Bromobenzene	156	13.273	13.273	0.000	96	369586	50.0	49.3	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2439069	50.0	48.0	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	95	238835	50.0	42.6	
90 2-Chlorotoluene	91	13.450	13.438	0.012	96	1366634	50.0	47.2	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1501542	50.0	48.3	
92 1,2,3-Trichloropropane	110	13.497	13.498	-0.001	81	66559	50.0	43.3	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	89	72502	50.0	43.2	
94 Cyclohexanone	55	13.533	13.533	0.000	68	53239	500.0	375.9	
95 4-Chlorotoluene	91	13.604	13.592	0.012	98	1368783	50.0	47.4	
96 tert-Butylbenzene	119	13.781	13.782	-0.001	93	1319176	50.0	47.8	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	1487948	50.0	48.2	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	2076399	50.0	47.6	
99 4-Isopropyltoluene	119	14.065	14.066	-0.001	97	1642375	50.0	49.5	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	712394	50.0	47.3	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	435578	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.208	-0.001	92	662014	50.0	46.5	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1288408	50.0	46.1	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	427600	50.0	51.7	
120 Benzyl chloride	126	14.432	14.432	0.000	89	88355	50.0	53.2	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	579814	50.0	46.6	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.273	-0.001	86	29182	50.0	40.4	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	57	130918	50.0	55.9	
107 1,3,5-Trichlorobenzene	180	15.296	15.284	0.012	97	490139	50.0	50.7	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	97	219237	50.0	49.9	
109 1,2,4-Trichlorobenzene	180	15.840	15.841	-0.001	94	372717	50.0	50.4	
110 Naphthalene	128	16.112	16.113	-0.001	97	624373	50.0	46.6	
111 1,2,3-Trichlorobenzene	180	16.266	16.267	0.000	95	305605	50.0	50.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

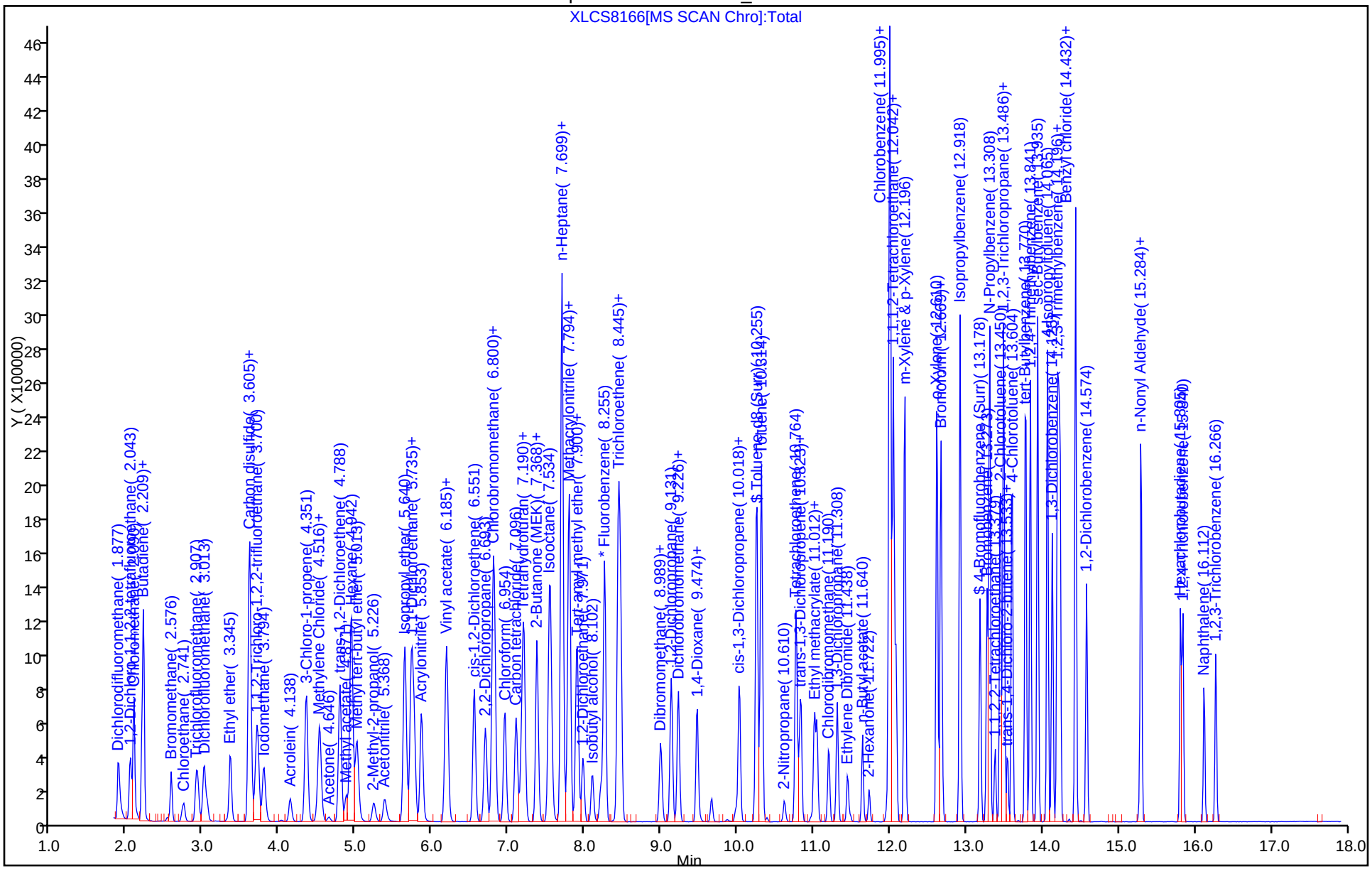
8260 NewWkMix_00230	Amount Added: 10.00	Units: uL	
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:05:37 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XLCS8166.D

Injection Date:	01-Aug-2017 16:34:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XLCS8166.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Aug-2017 16:34:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-004
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:05:36 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:05:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	48.8	97.65
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	48.9	97.73
$ 62 Toluene-d8 (Surr)	50.0	47.3	94.54
$ 86 4-Bromofluorobenzene (Surr)	50.0	45.3	90.64

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 160-320393/4

Matrix: Water | Lab File ID: XLCS8185.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/02/2017 17:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320393 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	47.0		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	48.0		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	43.0		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	43.1		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	45.4		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	47.1		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	46.1		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	50.3		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	42.7		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	47.4		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	40.8		10	2.0	1.2
106-93-4	1,2-Dibromoethane	42.6		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	46.8		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	46.9		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	48.0		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	44.2		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	48.3		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	47.4		20	5.0	0.39
95-49-8	2-Chlorotoluene	47.0		5.0	2.0	0.34
591-78-6	2-Hexanone	39.7		20	2.0	0.59
106-43-4	4-Chlorotoluene	47.0		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	46.0		20	2.0	0.33
67-64-1	Acetone	43.3		20	10	6.7
71-43-2	Benzene	44.1		5.0	1.0	0.25
108-86-1	Bromobenzene	49.0		5.0	2.0	0.33
74-97-5	Bromochloromethane	49.1		5.0	2.0	0.55
75-27-4	Bromodichloromethane	48.8		5.0	2.0	0.25
75-25-2	Bromoform	45.6		5.0	1.0	0.37
74-83-9	Bromomethane	55.7		10	2.0	0.40
75-15-0	Carbon disulfide	47.0		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	47.3		5.0	1.0	0.36
108-90-7	Chlorobenzene	45.9		5.0	1.0	0.38
75-00-3	Chloroethane	45.4		10	1.0	0.38
67-66-3	Chloroform	45.8		5.0	1.0	0.15
74-87-3	Chloromethane	48.5		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	46.9		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 160-320393/4

Matrix: Water | Lab File ID: XLCS8185.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/02/2017 17:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320393 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	51.2		5.0	1.0	0.34
124-48-1	Dibromochloromethane	47.4		5.0	1.0	0.33
74-95-3	Dibromomethane	48.6		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	51.6		10	2.0	0.45
100-41-4	Ethylbenzene	44.9		5.0	1.0	0.30
98-82-8	Isopropylbenzene	47.8		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	46.8		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	47.2		5.0	2.0	0.40
75-09-2	Methylene Chloride	45.1		7.5	5.0	1.7
91-20-3	Naphthalene	48.4		5.0	2.0	0.85
104-51-8	n-Butylbenzene	52.8		5.0	2.0	0.23
103-65-1	N-Propylbenzene	47.2		5.0	2.0	0.30
95-47-6	o-Xylene	47.8		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	50.1		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	47.4		5.0	2.0	0.31
100-42-5	Styrene	47.9		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	48.2		5.0	2.0	0.31
127-18-4	Tetrachloroethene	46.9		5.0	1.0	0.28
108-88-3	Toluene	45.1		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	46.4		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	48.9		5.0	1.0	0.35
79-01-6	Trichloroethene	44.1		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	58.7		5.0	2.0	0.22
75-01-4	Vinyl chloride	49.3		5.0	1.0	0.43
1330-20-7	Xylenes (total)	94.6		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		81-118
460-00-4	4-Bromofluorobenzene (Surr)	92		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	96		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XLCS8185.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Aug-2017 17:20:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011097-004
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 07-Aug-2017 20:50:18 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: hannj Date: 07-Aug-2017 20:50:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.878	0.011	99	517784	50.0	51.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	237328	50.0	48.6	
3 Chloromethane	50	2.091	2.091	0.000	99	676809	50.0	48.5	
4 Vinyl chloride	62	2.197	2.197	0.000	98	503866	50.0	49.3	
121 Butadiene	39	2.221	2.209	0.012	89	430344	50.0	52.1	
5 Bromomethane	94	2.576	2.576	0.000	91	175025	50.0	55.7	
6 Chloroethane	64	2.741	2.741	0.000	99	146795	50.0	45.4	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	433630	50.0	58.7	
122 Dichlorofluoromethane	67	3.014	3.002	0.012	97	433252	50.0	54.3	
8 Ethyl ether	74	3.357	3.357	0.000	93	201419	50.0	48.9	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	95	461106	50.0	47.1	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1595392	50.0	47.0	
11 Ethanol	45	3.605	3.605	0.000	25	96567	2000.0	1911.0	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	95	316526	50.0	48.2	
13 Iodomethane	142	3.795	3.795	0.000	97	586973	50.0	49.0	
14 Acrolein	56	4.138	4.138	0.000	100	162023	250.0	244.8	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	502675	50.0	49.7	
16 Isopropyl alcohol	45	4.493	4.493	0.000	98	118108	500.0	492.3	
17 Methylene Chloride	84	4.528	4.528	0.000	96	403435	50.0	45.1	
18 Acetone	43	4.647	4.647	0.000	100	57430	50.0	43.3	
19 trans-1,2-Dichloroethene	96	4.789	4.789	0.000	98	479143	50.0	46.4	
20 Methyl acetate	74	4.871	4.871	0.000	98	62304	250.0	234.8	
21 Hexane	86	4.942	4.942	0.000	87	160128	50.0	48.7	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	97	704893	50.0	47.2	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	96	177560	500.0	450.8	
24 Acetonitrile	41	5.380	5.380	0.000	99	245389	500.0	485.8	
25 Isopropyl ether	45	5.640	5.640	0.000	96	1322161	50.0	49.3	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	92	819541	50.0	48.5	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	97	808850	50.0	45.4	
29 Acrylonitrile	53	5.865	5.853	0.012	99	733524	500.0	464.3	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	98	1043280	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
31 Vinyl acetate	43	6.197	6.197	0.000	97	634443	50.0	58.8	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	80	474698	50.0	46.9	
33 2,2-Dichloropropane	77	6.694	6.694	0.000	92	462626	50.0	48.3	
34 Cyclohexane	84	6.800	6.800	0.000	90	790320	50.0	46.4	
35 Chlorobromomethane	128	6.824	6.824	0.000	96	150459	50.0	49.1	
36 Chloroform	83	6.954	6.954	0.000	94	694423	50.0	45.8	
37 Carbon tetrachloride	117	7.096	7.096	0.000	98	523198	50.0	47.3	
38 Tetrahydrofuran	71	7.167	7.167	0.000	92	41968	100.0	92.6	
39 Ethyl acetate	45	7.179	7.167	0.012	99	56010	100.0	93.8	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.191	0.011	93	344076	50.0	50.5	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	640590	50.0	48.0	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	96	651164	50.0	46.1	
43 2-Butanone (MEK)	43	7.404	7.392	0.012	100	90856	50.0	47.4	
124 Isooctane	57	7.546	7.546	0.000	96	2175743	50.0	47.0	
117 n-Heptane	43	7.699	7.699	0.000	74	926680	50.0	48.5	
44 Benzene	78	7.699	7.699	0.000	96	1767146	50.0	44.1	
45 Propionitrile	54	7.770	7.770	0.000	95	258917	500.0	456.6	
46 Methacrylonitrile	41	7.794	7.794	0.000	93	1247958	500.0	471.5	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	88	321574	50.0	50.0	
48 Tert-amyl methyl ether	73	7.901	7.901	0.000	96	738149	50.0	53.0	
49 1,2-Dichloroethane	62	7.972	7.972	0.000	97	381291	50.0	46.8	
50 Isobutyl alcohol	42	8.102	8.102	0.000	94	134829	1250.0	1151.9	
* 51 Fluorobenzene	96	8.256	8.256	0.000	99	1760895	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.433	0.012	90	780864	50.0	46.6	
53 Trichloroethene	95	8.469	8.469	0.000	98	456322	50.0	44.1	
54 n-Butanol	56	8.989	8.989	0.000	91	134955	1250.0	1070.4	
55 Dibromomethane	93	9.001	9.001	0.000	94	161741	50.0	48.6	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	97	416186	50.0	46.9	
123 Ethyl acrylate	55	9.226	9.226	0.000	97	273854	50.0	48.6	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	464932	50.0	48.8	
58 Methyl methacrylate	69	9.474	9.474	0.000	94	309884	100.0	100.3	
59 1,4-Dioxane	88	9.498	9.498	0.000	85	39857	1000.0	971.6	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	91	40872	NC	NC	
61 cis-1,3-Dichloropropene	75	10.031	10.019	0.011	95	575156	50.0	51.2	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1664097	50.0	48.1	
63 Toluene	92	10.314	10.314	0.000	98	1117421	50.0	45.1	
64 2-Nitropropane	43	10.622	10.622	0.000	97	100682	100.0	96.6	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	343636	50.0	46.9	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.800	0.011	95	187958	50.0	46.0	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	436548	50.0	48.9	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	90	205913	50.0	43.1	
69 Ethyl methacrylate	69	11.048	11.048	0.000	84	308680	50.0	40.4	
70 Chlorodibromomethane	129	11.202	11.202	0.000	90	253315	50.0	47.4	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	92	445269	50.0	44.2	
72 Ethylene Dibromide	107	11.439	11.439	0.000	98	217429	50.0	42.6	
118 n-Butyl acetate	43	11.640	11.640	0.000	99	339477	50.0	45.6	
74 2-Hexanone	43	11.723	11.723	0.000	95	132987	50.0	39.7	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	87	1081003	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	80	738774	50.0	45.6	
77 Chlorobenzene	112	12.007	12.007	0.000	97	1051685	50.0	45.9	
78 Ethylbenzene	91	12.042	12.042	0.000	96	2092361	50.0	44.9	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	95	304550	50.0	47.0	

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	12.196	12.196	0.000	96	775366	50.0	46.8	
82 o-Xylene	106	12.610	12.610	0.000	98	722244	50.0	47.8	
83 Styrene	104	12.669	12.669	0.000	95	1100222	50.0	47.9	
84 Bromoform	173	12.681	12.681	0.000	95	108815	50.0	45.6	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1968633	50.0	47.8	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	524572	50.0	45.9	
87 Bromobenzene	156	13.273	13.273	0.000	96	359980	50.0	49.0	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2351881	50.0	47.2	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	93	236609	50.0	43.0	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	1335098	50.0	47.0	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1464159	50.0	48.0	
92 1,2,3-Trichloropropane	110	13.498	13.498	0.000	80	64354	50.0	42.7	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	86	67165	50.0	40.9	
94 Cyclohexanone	55	13.533	13.533	0.000	73	54373	500.0	390.2	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	1332779	50.0	47.0	
96 tert-Butylbenzene	119	13.782	13.782	0.000	93	1304557	50.0	48.2	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	1437215	50.0	47.4	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	2028183	50.0	47.4	
99 4-Isopropyltoluene	119	14.066	14.066	0.000	97	1628694	50.0	50.1	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	697919	50.0	47.2	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	427263	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.208	0.000	94	654876	50.0	46.9	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1265882	50.0	46.2	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	427959	50.0	52.8	
120 Benzyl chloride	126	14.432	14.432	0.000	89	84799	50.0	52.1	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	97	572224	50.0	46.9	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	85	28906	50.0	40.8	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	62	157340	50.0	64.2	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	97	482700	50.0	50.9	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	222660	50.0	51.7	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	366596	50.0	50.5	
110 Naphthalene	128	16.113	16.113	0.000	97	634844	50.0	48.4	
111 1,2,3-Trichlorobenzene	180	16.278	16.266	0.012	96	300738	50.0	50.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

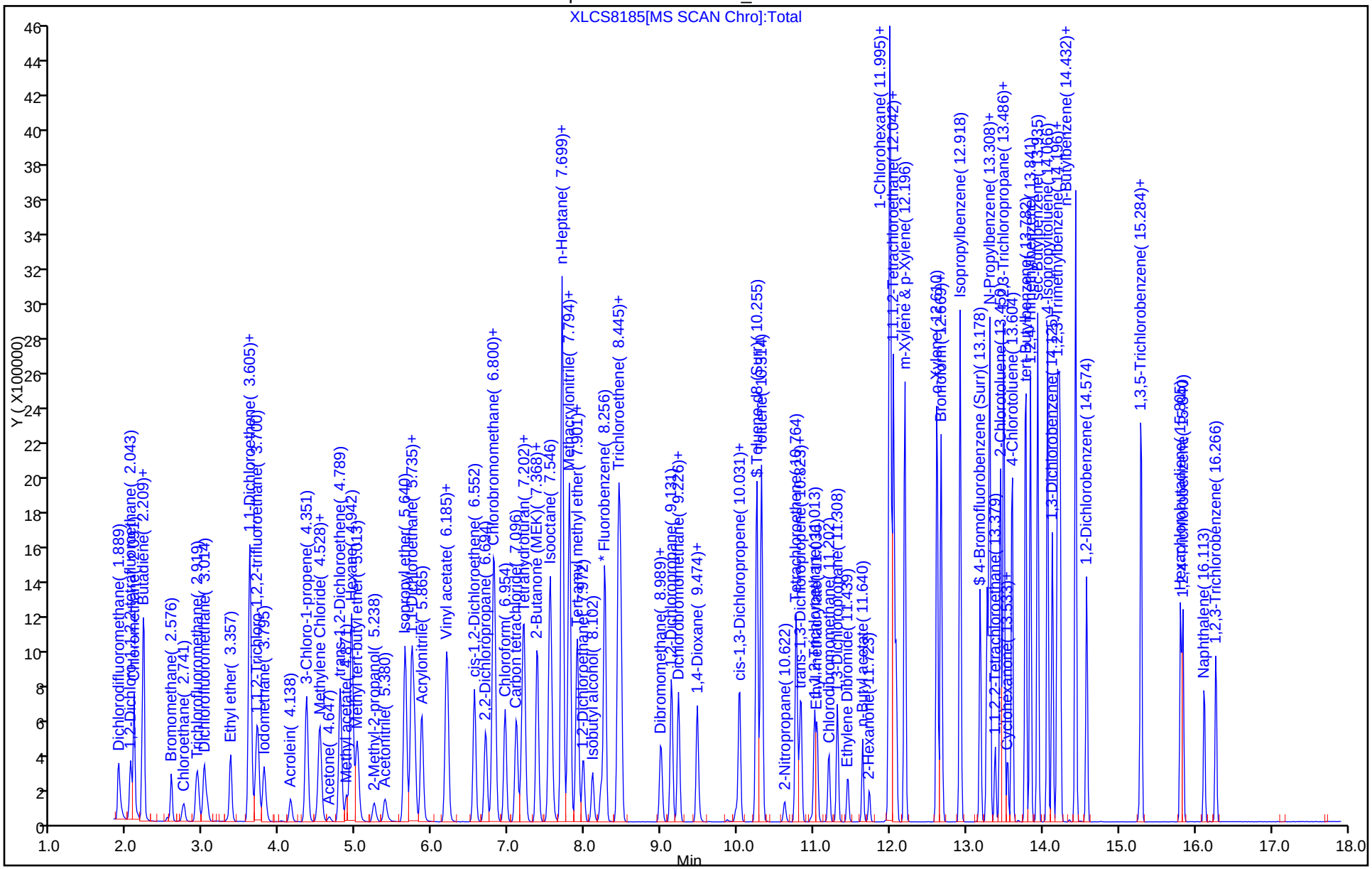
8260 NewWkMix_00230	Amount Added: 10.00	Units: uL	
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 07-Aug-2017 20:50:19 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XLCS8185.D

Injection Date:	02-Aug-2017 17:20:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XLCS8185.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Aug-2017 17:20:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011097-004
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 07-Aug-2017 20:50:18 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: hannj Date: 07-Aug-2017 20:50:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.5	100.94
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.0	100.10
$ 62 Toluene-d8 (Surr)	50.0	48.1	96.27
$ 86 4-Bromofluorobenzene (Surr)	50.0	45.9	91.77

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 160-320393/5

Matrix: Water | Lab File ID: XLCS8186.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/02/2017 17:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320393 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	48.6		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	48.9		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	43.8		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	45.4		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	46.1		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	47.4		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	46.7		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	50.2		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	43.3		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	48.7		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	44.8		10	2.0	1.2
106-93-4	1,2-Dibromoethane	44.6		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	47.8		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	47.2		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	48.6		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	46.2		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	48.2		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	49.7		20	5.0	0.39
95-49-8	2-Chlorotoluene	47.0		5.0	2.0	0.34
591-78-6	2-Hexanone	43.2		20	2.0	0.59
106-43-4	4-Chlorotoluene	47.6		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	49.8		20	2.0	0.33
67-64-1	Acetone	44.3		20	10	6.7
71-43-2	Benzene	44.4		5.0	1.0	0.25
108-86-1	Bromobenzene	49.7		5.0	2.0	0.33
74-97-5	Bromochloromethane	50.0		5.0	2.0	0.55
75-27-4	Bromodichloromethane	50.2		5.0	2.0	0.25
75-25-2	Bromoform	48.6		5.0	1.0	0.37
74-83-9	Bromomethane	56.1		10	2.0	0.40
75-15-0	Carbon disulfide	47.1		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	49.2		5.0	1.0	0.36
108-90-7	Chlorobenzene	46.2		5.0	1.0	0.38
75-00-3	Chloroethane	48.2		10	1.0	0.38
67-66-3	Chloroform	46.1		5.0	1.0	0.15
74-87-3	Chloromethane	48.6		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	49.0		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 160-320393/5

Matrix: Water | Lab File ID: XLCS8186.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/02/2017 17:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320393 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	52.2		5.0	1.0	0.34
124-48-1	Dibromochloromethane	49.2		5.0	1.0	0.33
74-95-3	Dibromomethane	50.6		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	52.0		10	2.0	0.45
100-41-4	Ethylbenzene	45.9		5.0	1.0	0.30
98-82-8	Isopropylbenzene	48.5		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	48.6		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	49.2		5.0	2.0	0.40
75-09-2	Methylene Chloride	45.4		7.5	5.0	1.7
91-20-3	Naphthalene	48.5		5.0	2.0	0.85
104-51-8	n-Butylbenzene	51.3		5.0	2.0	0.23
103-65-1	N-Propylbenzene	47.9		5.0	2.0	0.30
95-47-6	o-Xylene	48.9		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	49.5		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	47.9		5.0	2.0	0.31
100-42-5	Styrene	49.1		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	48.2		5.0	2.0	0.31
127-18-4	Tetrachloroethene	48.4		5.0	1.0	0.28
108-88-3	Toluene	46.2		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	47.1		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	50.7		5.0	1.0	0.35
79-01-6	Trichloroethene	44.0		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	56.4		5.0	2.0	0.22
75-01-4	Vinyl chloride	48.4		5.0	1.0	0.43
1330-20-7	Xylenes (total)	97.5		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		81-118
460-00-4	4-Bromofluorobenzene (Surr)	93		85-114
1868-53-7	Dibromofluoromethane (Surr)	102		80-119
2037-26-5	Toluene-d8 (Surr)	98		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XLCS8186.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 02-Aug-2017 17:50:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011097-005
Misc. Info.: LCSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 07-Aug-2017 20:50:49 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: hannj Date: 07-Aug-2017 20:50:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.878	0.011	100	527676	50.0	52.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	235148	50.0	47.7	
3 Chloromethane	50	2.090	2.091	-0.001	99	685283	50.0	48.6	
4 Vinyl chloride	62	2.197	2.197	0.000	98	499860	50.0	48.4	
121 Butadiene	39	2.221	2.209	0.012	89	434823	50.0	52.1	
5 Bromomethane	94	2.576	2.576	0.000	91	178080	50.0	56.1	
6 Chloroethane	64	2.741	2.741	0.000	99	157185	50.0	48.2	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	420683	50.0	56.4	
122 Dichlorofluoromethane	67	3.013	3.002	0.011	97	436899	50.0	54.2	
8 Ethyl ether	74	3.357	3.357	0.000	92	210931	50.0	50.7	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	95	468653	50.0	47.4	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1617793	50.0	47.1	
11 Ethanol	45	3.617	3.605	0.012	37	101282	2000.0	1983.2	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	95	325103	50.0	48.9	
13 Iodomethane	142	3.794	3.795	-0.001	97	596170	50.0	49.3	
14 Acrolein	56	4.138	4.138	0.000	99	174144	250.0	260.3	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	509861	50.0	49.9	
16 Isopropyl alcohol	45	4.493	4.493	0.000	98	124816	500.0	513.5	
17 Methylene Chloride	84	4.528	4.528	0.000	96	410794	50.0	45.4	
18 Acetone	43	4.646	4.647	-0.001	99	59316	50.0	44.3	
19 trans-1,2-Dichloroethene	96	4.788	4.789	-0.001	98	491901	50.0	47.1	
20 Methyl acetate	74	4.883	4.871	0.012	97	64650	250.0	241.0	
21 Hexane	86	4.942	4.942	0.000	87	164102	50.0	49.4	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	93	742656	50.0	49.2	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	96	192631	500.0	483.3	
24 Acetonitrile	41	5.380	5.380	0.000	100	250287	500.0	490.3	
25 Isopropyl ether	45	5.640	5.640	0.000	95	1372291	50.0	50.6	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	92	839521	50.0	49.2	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	98	829161	50.0	46.1	
29 Acrylonitrile	53	5.865	5.853	0.012	100	775956	500.0	486.0	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	98	1087857	50.0	54.9	

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	6.196	6.197	-0.001	97	657197	50.0	60.2	
32 cis-1,2-Dichloroethene	96	6.551	6.552	-0.001	80	501226	50.0	49.0	
33 2,2-Dichloropropane	77	6.705	6.694	0.011	91	466492	50.0	48.2	
34 Cyclohexane	84	6.800	6.800	0.000	90	801608	50.0	46.6	
35 Chlorobromomethane	128	6.824	6.824	0.000	96	154701	50.0	50.0	
36 Chloroform	83	6.954	6.954	0.000	94	706559	50.0	46.1	
37 Carbon tetrachloride	117	7.096	7.096	0.000	98	550245	50.0	49.2	
38 Tetrahydrofuran	71	7.167	7.167	0.000	91	45867	100.0	100.1	
39 Ethyl acetate	45	7.179	7.167	0.012	99	59735	100.0	98.9	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.191	0.011	92	349762	50.0	50.8	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	99	659560	50.0	48.9	
42 1,1-Dichloropropene	75	7.380	7.368	0.012	97	666406	50.0	46.7	
43 2-Butanone (MEK)	43	7.403	7.392	0.011	100	96312	50.0	49.7	
124 Isooctane	57	7.545	7.546	-0.001	96	2211888	50.0	47.3	
117 n-Heptane	43	7.699	7.699	0.000	75	940739	50.0	48.7	
44 Benzene	78	7.699	7.699	0.000	96	1801023	50.0	44.4	
45 Propionitrile	54	7.770	7.770	0.000	95	272447	500.0	475.4	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	1301008	500.0	486.4	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	88	338217	50.0	52.1	
48 Tert-amyl methyl ether	73	7.900	7.901	-0.001	97	773121	50.0	54.9	
49 1,2-Dichloroethane	62	7.983	7.972	0.011	96	393256	50.0	47.8	
50 Isobutyl alcohol	42	8.102	8.102	0.000	95	142693	1250.0	1205.3	
* 51 Fluorobenzene	96	8.255	8.256	-0.001	99	1779685	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.433	0.012	91	804122	50.0	47.5	
53 Trichloroethene	95	8.468	8.469	-0.001	99	460259	50.0	44.0	
54 n-Butanol	56	8.989	8.989	0.000	89	146245	1250.0	1142.3	
55 Dibromomethane	93	9.001	9.001	0.000	96	170040	50.0	50.6	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	96	422887	50.0	47.2	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	290729	50.0	51.1	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	483269	50.0	50.2	
58 Methyl methacrylate	69	9.474	9.474	0.000	94	326693	100.0	104.7	
59 1,4-Dioxane	88	9.498	9.498	0.000	83	40162	1000.0	968.7	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	89	42998	NC	NC	
61 cis-1,3-Dichloropropene	75	10.030	10.019	0.011	96	592741	50.0	52.2	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1683673	50.0	48.8	
63 Toluene	92	10.314	10.314	0.000	98	1141046	50.0	46.2	
64 2-Nitropropane	43	10.622	10.622	0.000	98	107435	100.0	102.4	
65 Tetrachloroethene	164	10.776	10.764	0.012	95	354110	50.0	48.4	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.800	0.011	96	203252	50.0	49.8	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	94	451734	50.0	50.7	
68 1,1,2-Trichloroethane	83	11.012	11.013	-0.001	89	216540	50.0	45.4	
69 Ethyl methacrylate	69	11.048	11.048	0.000	84	326093	50.0	42.6	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	262261	50.0	49.2	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	464730	50.0	46.2	
72 Ethylene Dibromide	107	11.450	11.439	0.011	98	227319	50.0	44.6	
118 n-Butyl acetate	43	11.640	11.640	0.000	99	356144	50.0	47.7	
74 2-Hexanone	43	11.722	11.723	-0.001	96	145518	50.0	43.2	
* 76 Chlorobenzene-d5	117	11.995	11.983	0.012	88	1079209	50.0	50.0	
75 1-Chlorohexane	91	12.006	11.995	0.011	74	743908	50.0	46.0	
77 Chlorobenzene	112	12.006	12.007	-0.001	97	1056045	50.0	46.2	
78 Ethylbenzene	91	12.042	12.042	0.000	97	2137399	50.0	45.9	
79 1,1,1,2-Tetrachloroethane	131	12.077	12.078	-0.001	95	313951	50.0	48.6	

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	12.196	12.196	0.000	97	802962	50.0	48.6	
82 o-Xylene	106	12.610	12.610	0.000	98	738161	50.0	48.9	
83 Styrene	104	12.669	12.669	0.000	95	1126455	50.0	49.1	
84 Bromoform	173	12.681	12.681	0.000	96	115607	50.0	48.6	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1995450	50.0	48.5	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	82	529329	50.0	46.4	
87 Bromobenzene	156	13.273	13.273	0.000	96	364761	50.0	49.7	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2380400	50.0	47.9	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	240527	50.0	43.8	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	1332301	50.0	47.0	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1479963	50.0	48.6	
92 1,2,3-Trichloropropane	110	13.497	13.498	-0.001	81	65175	50.0	43.3	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	86	69977	50.0	42.6	
94 Cyclohexanone	55	13.533	13.533	0.000	74	54675	500.0	392.7	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	1347916	50.0	47.6	
96 tert-Butylbenzene	119	13.781	13.782	-0.001	93	1305055	50.0	48.2	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	1475360	50.0	48.7	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	2044561	50.0	47.9	
99 4-Isopropyltoluene	119	14.065	14.066	-0.001	97	1606865	50.0	49.5	
100 1,3-Dichlorobenzene	146	14.125	14.125	-0.001	97	704178	50.0	47.7	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	426665	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.208	-0.001	91	648518	50.0	46.5	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1275280	50.0	46.6	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	415581	50.0	51.3	
120 Benzyl chloride	126	14.432	14.432	0.000	89	85439	50.0	52.5	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	573653	50.0	47.1	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	88	31686	50.0	44.8	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	63	158605	50.0	64.6	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	97	472926	50.0	50.0	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	215425	50.0	50.1	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	371138	50.0	51.2	
110 Naphthalene	128	16.112	16.113	-0.001	97	635738	50.0	48.5	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	300157	50.0	50.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

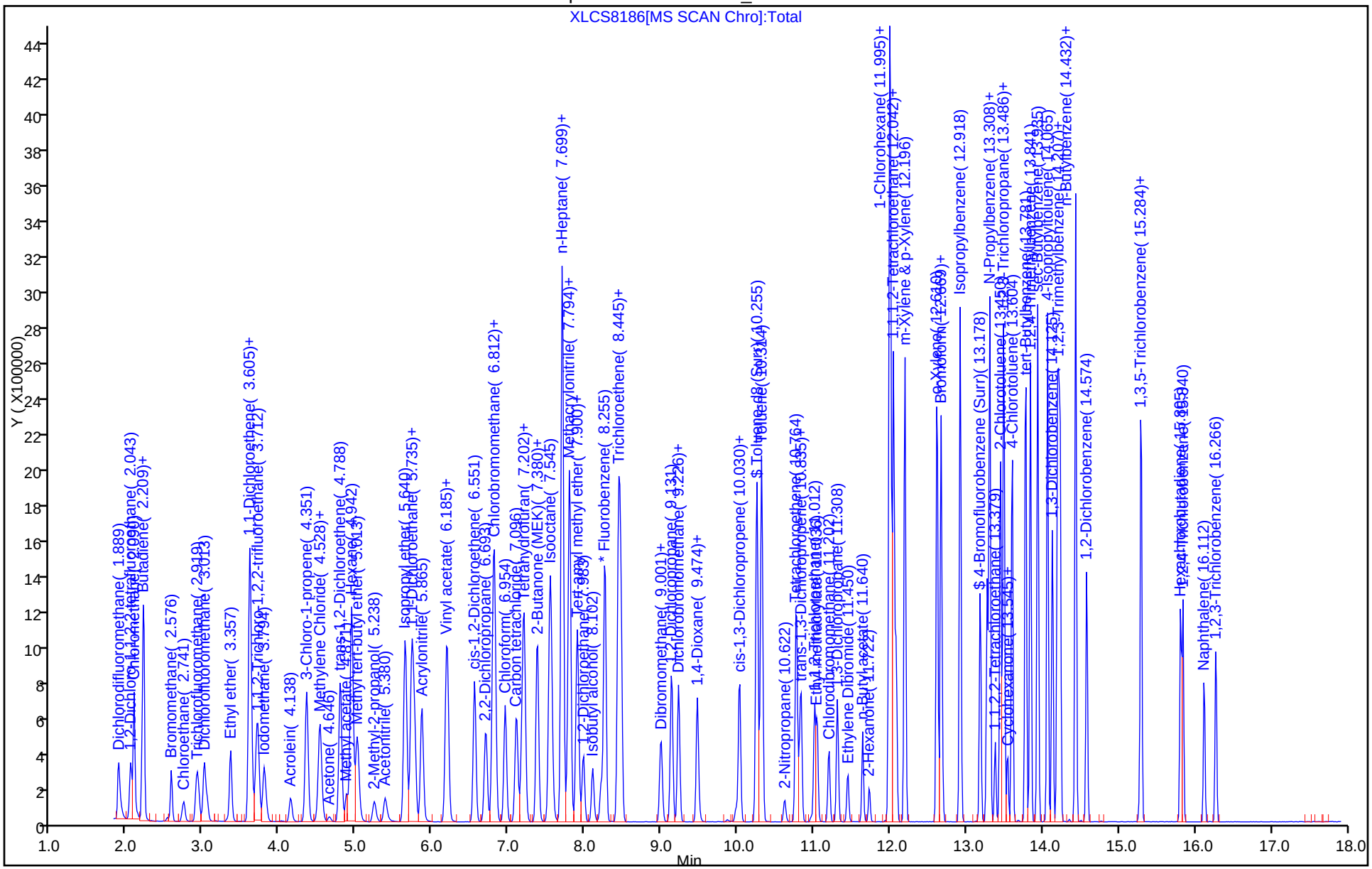
8260 NewWkMix_00230	Amount Added: 10.00	Units: uL	
I.S. Working_00150	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 07-Aug-2017 20:50:50 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XLCS8186.D

Injection Date:	02-Aug-2017 17:50:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\XLCS8186.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 02-Aug-2017 17:50:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011097-005
Misc. Info.: LCSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170802-11097.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 07-Aug-2017 20:50:49 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: hannj Date: 07-Aug-2017 20:50:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.8	101.52
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	52.1	104.17
$ 62 Toluene-d8 (Surr)	50.0	48.8	97.56
$ 86 4-Bromofluorobenzene (Surr)	50.0	46.4	92.73

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2005MS MS | Lab Sample ID: 280-99527-1 MS

Matrix: Water | Lab File ID: XSMP8172.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 19:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	50.0		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	50.6		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	44.9		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	46.0		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	49.1		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	50.1		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	49.1		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	52.2		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	46.1		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	50.1		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	44.9		10	2.0	1.2
106-93-4	1,2-Dibromoethane	44.7		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	50.8		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	50.5		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	49.8		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	47.2		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	51.8		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	49.6		20	5.0	0.39
95-49-8	2-Chlorotoluene	48.8		5.0	2.0	0.34
591-78-6	2-Hexanone	41.4		20	2.0	0.59
106-43-4	4-Chlorotoluene	49.0		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	49.1		20	2.0	0.33
67-64-1	Acetone	48.0		20	10	6.7
71-43-2	Benzene	48.1		5.0	1.0	0.25
108-86-1	Bromobenzene	51.2		5.0	2.0	0.33
74-97-5	Bromochloromethane	54.4		5.0	2.0	0.55
75-27-4	Bromodichloromethane	53.3		5.0	2.0	0.25
75-25-2	Bromoform	49.1		5.0	1.0	0.37
74-83-9	Bromomethane	56.8		10	2.0	0.40
75-15-0	Carbon disulfide	51.3		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	50.1		5.0	1.0	0.36
108-90-7	Chlorobenzene	49.1		5.0	1.0	0.38
75-00-3	Chloroethane	48.7		10	1.0	0.38
67-66-3	Chloroform	49.0		5.0	1.0	0.15
74-87-3	Chloromethane	43.7		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	51.2		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2005MS MS | Lab Sample ID: 280-99527-1 MS

Matrix: Water | Lab File ID: XSMP8172.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 19:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	54.9		5.0	1.0	0.34
124-48-1	Dibromochloromethane	51.0		5.0	1.0	0.33
74-95-3	Dibromomethane	52.4		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	52.3		10	2.0	0.45
100-41-4	Ethylbenzene	48.4		5.0	1.0	0.30
98-82-8	Isopropylbenzene	49.0		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	50.0		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	49.8		5.0	2.0	0.40
75-09-2	Methylene Chloride	48.0		7.5	5.0	1.7
91-20-3	Naphthalene	49.6		5.0	2.0	0.85
104-51-8	n-Butylbenzene	54.3		5.0	2.0	0.23
103-65-1	N-Propylbenzene	48.9		5.0	2.0	0.30
95-47-6	o-Xylene	50.7		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	50.7		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	49.5		5.0	2.0	0.31
100-42-5	Styrene	51.2		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	49.4		5.0	2.0	0.31
127-18-4	Tetrachloroethene	48.9		5.0	1.0	0.28
108-88-3	Toluene	47.9		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	49.4		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	51.9		5.0	1.0	0.35
79-01-6	Trichloroethene	47.6		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	60.9		5.0	2.0	0.22
75-01-4	Vinyl chloride	48.7		5.0	1.0	0.43
1330-20-7	Xylenes (total)	101		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		81-118
460-00-4	4-Bromofluorobenzene (Surr)	92		85-114
1868-53-7	Dibromofluoromethane (Surr)	104		80-119
2037-26-5	Toluene-d8 (Surr)	96		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8172.D
Lims ID: 280-99527-A-1 MS
Client ID: 6MW2005MS
Sample Type: MS
Inject. Date: 01-Aug-2017 19:47:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-010
Misc. Info.: 280-99527-A-1 MS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:54:49 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:54:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.890	1.878	0.012	99	467223	50.0	52.3	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	216597	50.0	49.9	
3 Chloromethane	50	2.091	2.091	0.000	99	542035	50.0	43.7	
4 Vinyl chloride	62	2.197	2.197	0.000	98	442360	50.0	48.7	
121 Butadiene	39	2.221	2.209	0.012	89	384582	50.0	52.4	
5 Bromomethane	94	2.576	2.576	0.000	92	158741	50.0	56.8	
6 Chloroethane	64	2.741	2.741	0.000	98	139997	50.0	48.7	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	99	399788	50.0	60.9	
122 Dichlorofluoromethane	67	3.014	3.014	0.000	97	406857	50.0	57.3	
8 Ethyl ether	74	3.357	3.357	0.000	93	189461	50.0	51.7	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	96	436116	50.0	50.1	
10 Carbon disulfide	76	3.617	3.605	0.012	99	1549725	50.0	51.3	
11 Ethanol	45	3.605	3.605	0.000	25	89874	2000.0	1999.8	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.700	0.012	95	297481	50.0	50.9	
13 Iodomethane	142	3.795	3.795	0.000	97	541188	50.0	50.8	
14 Acrolein	56	4.138	4.138	0.000	99	163016	250.0	276.9	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	481369	50.0	53.5	
16 Isopropyl alcohol	45	4.505	4.493	0.012	96	117034	500.0	545.3	
17 Methylene Chloride	84	4.528	4.528	0.000	95	382083	50.0	48.0	
18 Acetone	43	4.647	4.647	0.000	100	56407	50.0	48.0	
19 trans-1,2-Dichloroethene	96	4.800	4.789	0.011	97	453798	50.0	49.4	
20 Methyl acetate	74	4.871	4.871	0.000	98	58443	250.0	247.6	
21 Hexane	86	4.942	4.942	0.000	88	151525	50.0	51.8	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	96	661166	50.0	49.8	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	95	161415	500.0	460.6	
24 Acetonitrile	41	5.380	5.380	0.000	99	234107	500.0	521.1	
25 Isopropyl ether	45	5.641	5.641	0.001	95	1261407	50.0	52.9	
27 2-Chloro-1,3-butadiene	53	5.735	5.723	0.012	92	780638	50.0	52.0	
28 1,1-Dichloroethane	63	5.771	5.759	0.012	98	777913	50.0	49.1	
S 26 1,2-Dichloroethene, Total	96				0			100.6	
29 Acrylonitrile	53	5.865	5.865	0.000	99	698772	500.0	497.3	

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	6.185	6.185	0.000	98	976262	50.0	56.0	
31 Vinyl acetate	43	6.209	6.197	0.012	98	608797	50.0	63.4	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	80	460351	50.0	51.2	
33 2,2-Dichloropropane	77	6.706	6.705	0.001	93	441197	50.0	51.8	
34 Cyclohexane	84	6.800	6.800	0.000	90	747386	50.0	49.4	
35 Chlorobromomethane	128	6.824	6.824	0.000	95	148123	50.0	54.4	
36 Chloroform	83	6.954	6.954	0.000	94	661175	50.0	49.0	
37 Carbon tetrachloride	117	7.108	7.108	0.000	98	493278	50.0	50.1	
38 Tetrahydrofuran	71	7.167	7.167	0.000	91	42512	100.0	105.4	
39 Ethyl acetate	45	7.179	7.179	0.000	99	52219	100.0	98.2	
$ 41 Dibromofluoromethane (Surr	113	7.203	7.202	0.000	92	314825	50.0	51.9	
40 1,1,1-Trichloroethane	97	7.203	7.202	0.000	99	599954	50.0	50.6	
42 1,1-Dichloropropene	75	7.380	7.380	0.000	96	616415	50.0	49.1	
43 2-Butanone (MEK)	43	7.404	7.392	0.012	100	84678	50.0	49.6	
124 Isooctane	57	7.546	7.546	0.000	96	2072900	50.0	50.3	
117 n-Heptane	43	7.699	7.699	0.000	75	887076	50.0	52.2	
44 Benzene	78	7.699	7.699	0.000	96	1714660	50.0	48.1	
45 Propionitrile	54	7.770	7.770	0.000	94	254517	500.0	504.7	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	1219625	500.0	518.2	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	87	303750	50.0	53.2	
48 Tert-amyl methyl ether	73	7.901	7.901	0.000	96	697777	50.0	56.3	
49 1,2-Dichloroethane	62	7.983	7.983	0.000	96	367701	50.0	50.8	
50 Isobutyl alcohol	42	8.102	8.102	0.000	94	125110	1250.0	1201.0	
* 51 Fluorobenzene	96	8.267	8.267	0.000	99	1566085	50.0	50.0	
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55	8.445	8.445	0.000	90	755789	50.0	50.8	
53 Trichloroethene	95	8.469	8.469	0.000	99	438542	50.0	47.6	
A 126 C6-C12	1	8.921	(3.966-13.876)		0	137063948		NC	
54 n-Butanol	56	8.989	8.989	0.000	91	122789	1250.0	1093.3	
55 Dibromomethane	93	9.001	9.001	0.000	97	155242	50.0	52.4	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	96	398476	50.0	50.5	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	261810	50.0	52.3	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	451348	50.0	53.3	
58 Methyl methacrylate	69	9.474	9.474	0.000	94	295174	100.0	107.5	
59 1,4-Dioxane	88	9.498	9.498	0.000	81	37458	1000.0	1026.7	
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	86	14678	NC	NC	
61 cis-1,3-Dichloropropene	75	10.031	10.031	0.000	95	548315	50.0	54.9	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1519668	50.0	48.1	
63 Toluene	92	10.315	10.315	0.001	98	1083696	50.0	47.9	
64 2-Nitropropane	43	10.622	10.622	0.000	99	92793	100.0	97.4	
65 Tetrachloroethene	164	10.776	10.776	0.000	96	326593	50.0	48.9	
66 4-Methyl-2-pentanone (MIBK	43	10.812	10.811	0.001	97	183061	50.0	49.1	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	423317	50.0	51.9	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	88	200764	50.0	46.0	
69 Ethyl methacrylate	69	11.048	11.048	0.000	85	297187	50.0	42.5	
70 Chlorodibromomethane	129	11.202	11.202	0.000	90	248703	50.0	51.0	
71 1,3-Dichloropropane	76	11.309	11.308	0.001	92	433869	50.0	47.2	
72 Ethylene Dibromide	107	11.451	11.450	0.001	99	208410	50.0	44.7	
S 73 1,3-Dichloropropene, Total	75				0			106.8	
118 n-Butyl acetate	43	11.640	11.640	0.000	98	315139	50.0	46.3	
74 2-Hexanone	43	11.723	11.723	0.000	95	127014	50.0	41.4	

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	11.995	11.995	0.000	87	987019	50.0	50.0	
75 1-Chlorohexane	91	12.007	12.007	0.000	74	687034	50.0	46.4	
77 Chlorobenzene	112	12.007	12.007	0.000	94	1026915	50.0	49.1	
78 Ethylbenzene	91	12.042	12.042	0.000	97	2059902	50.0	48.4	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	95	295827	50.0	50.0	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	97	756438	50.0	50.0	
82 o-Xylene	106	12.622	12.610	0.012	97	699503	50.0	50.7	
83 Styrene	104	12.669	12.669	0.000	96	1074015	50.0	51.2	
84 Bromoform	173	12.681	12.681	0.000	96	108631	50.0	49.1	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1874412	50.0	49.0	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	487593	50.0	45.9	
87 Bromobenzene	156	13.273	13.273	0.000	95	349316	50.0	51.2	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2262960	50.0	48.9	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	229511	50.0	44.9	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	1287091	50.0	48.8	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	95	1409444	50.0	49.8	
92 1,2,3-Trichloropropane	110	13.498	13.498	0.000	79	64472	50.0	46.1	
93 trans-1,4-Dichloro-2-buten	53	13.545	13.533	0.012	88	70539	50.0	46.0	
94 Cyclohexanone	55	13.545	13.545	0.000	69	47412	500.0	368.3	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	1288745	50.0	49.0	
81 Pentachloroethane	167		13.776					ND	
96 tert-Butylbenzene	119	13.782	13.782	0.000	93	1241982	50.0	49.4	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	1410166	50.0	50.1	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	1963857	50.0	49.5	
99 4-Isopropyltoluene	119	14.066	14.066	0.000	97	1531994	50.0	50.7	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	674219	50.0	49.1	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	396617	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.208	0.000	91	637609	50.0	49.2	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1231577	50.0	48.4	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	408435	50.0	54.3	
120 Benzyl chloride	126	14.432	14.432	0.000	89	82391	50.0	54.4	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	555661	50.0	49.1	
105 1,2-Dibromo-3-Chloropropan	157	15.273	15.272	0.001	86	29553	50.0	44.9	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	63	158574	50.0	67.8	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	97	478324	50.0	54.4	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	212519	50.0	53.2	
109 1,2,4-Trichlorobenzene	180	15.841	15.840	0.001	94	360575	50.0	53.5	
110 Naphthalene	128	16.113	16.113	0.000	97	604290	50.0	49.6	
111 1,2,3-Trichlorobenzene	180	16.278	16.266	0.012	95	289755	50.0	52.2	
S 112 Xylenes, Total	106				0			100.7	
S 113 Trihalomethanes, Total	1				0			202.4	
127 2-Methylpentane	43	4.138	4.061	0.077	0	2060		NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Reagents:

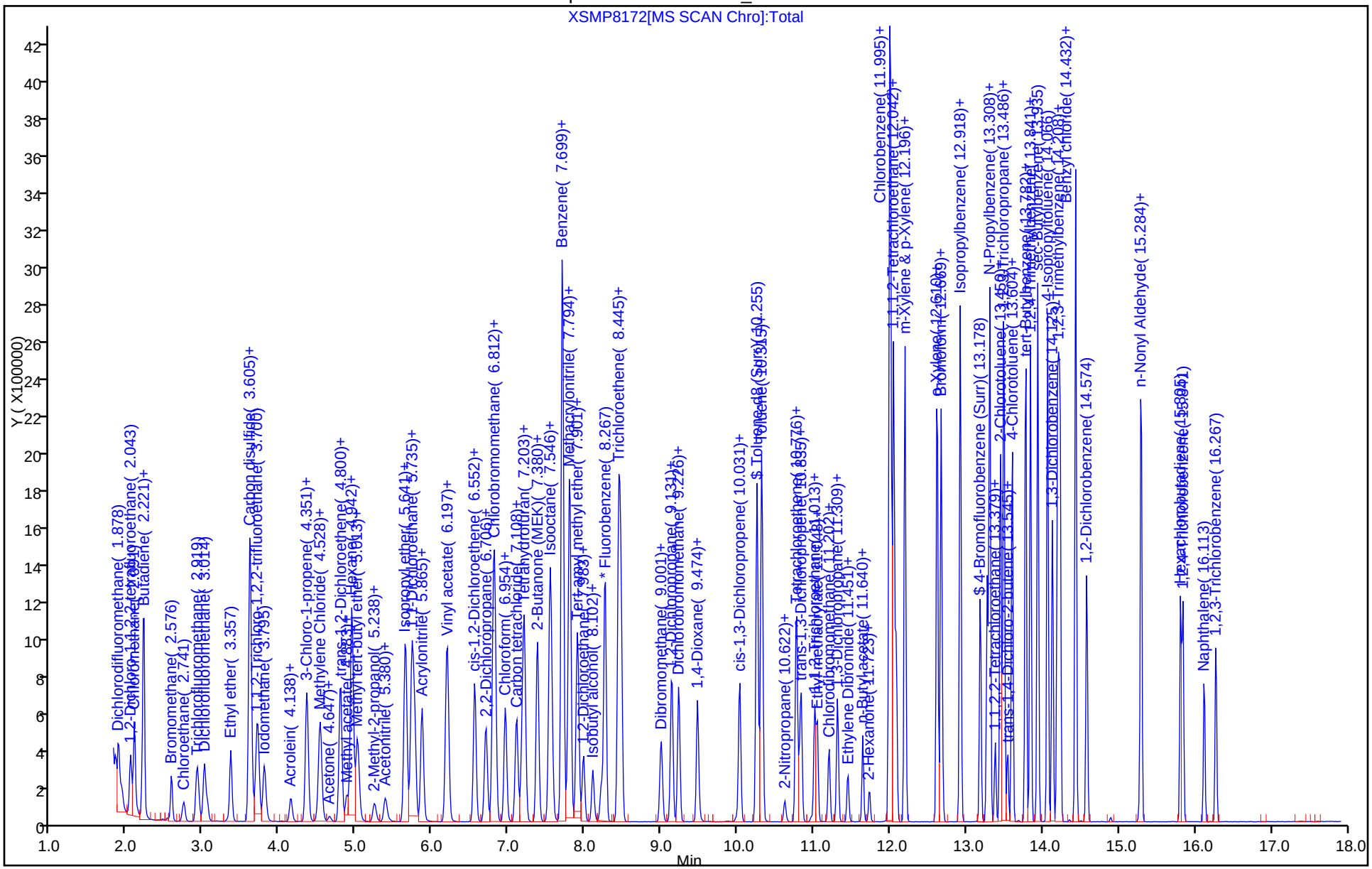
8260 NewWkMix_00230	Amount Added:	10.00	Units: uL	
I.S. Working_00150	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:54:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8172.D

Injection Date:	01-Aug-2017 19:47:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-99527-A-1 MS			Worklist Smp#:	10
Client ID:	6MW2005MS				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8172.D
Lims ID: 280-99527-A-1 MS
Client ID: 6MW2005MS
Sample Type: MS
Inject. Date: 01-Aug-2017 19:47:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-010
Misc. Info.: 280-99527-A-1 MS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:54:49 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:54:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	51.9	103.85
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	53.2	106.31
$ 62 Toluene-d8 (Surr)	50.0	48.1	96.28
$ 86 4-Bromofluorobenzene (Surr)	50.0	45.9	91.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2005MSD MSD | Lab Sample ID: 280-99527-1 MSD

Matrix: Water | Lab File ID: XSMP8173.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 20:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	48.9		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	49.3		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	43.7		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	44.5		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	47.2		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	47.7		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	47.6		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	51.3		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	43.9		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	46.9		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	43.3		10	2.0	1.2
106-93-4	1,2-Dibromoethane	43.9		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	50.5		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	49.6		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	46.7		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	46.6		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	50.8		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	49.7		20	5.0	0.39
95-49-8	2-Chlorotoluene	45.5		5.0	2.0	0.34
591-78-6	2-Hexanone	42.8		20	2.0	0.59
106-43-4	4-Chlorotoluene	45.5		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	49.3		20	2.0	0.33
67-64-1	Acetone	46.7		20	10	6.7
71-43-2	Benzene	46.4		5.0	1.0	0.25
108-86-1	Bromobenzene	48.3		5.0	2.0	0.33
74-97-5	Bromochloromethane	52.9		5.0	2.0	0.55
75-27-4	Bromodichloromethane	52.1		5.0	2.0	0.25
75-25-2	Bromoform	47.6		5.0	1.0	0.37
74-83-9	Bromomethane	54.1		10	2.0	0.40
75-15-0	Carbon disulfide	49.8		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	49.2		5.0	1.0	0.36
108-90-7	Chlorobenzene	46.6		5.0	1.0	0.38
75-00-3	Chloroethane	47.0		10	1.0	0.38
67-66-3	Chloroform	47.9		5.0	1.0	0.15
74-87-3	Chloromethane	42.3		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	50.1		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-99527-1

SDG No.:

Client Sample ID: 6MW2005MSD MSD | Lab Sample ID: 280-99527-1 MSD

Matrix: Water | Lab File ID: XSMP8173.D

Analysis Method: 8260C DOD | Date Collected: 07/21/2017 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2017 20:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTXVMS30 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 320257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	52.4		5.0	1.0	0.34
124-48-1	Dibromochloromethane	49.9		5.0	1.0	0.33
74-95-3	Dibromomethane	52.2		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	52.1		10	2.0	0.45
100-41-4	Ethylbenzene	46.1		5.0	1.0	0.30
98-82-8	Isopropylbenzene	46.2		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	47.5		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	50.1		5.0	2.0	0.40
75-09-2	Methylene Chloride	47.6		7.5	5.0	1.7
91-20-3	Naphthalene	49.8		5.0	2.0	0.85
104-51-8	n-Butylbenzene	51.2		5.0	2.0	0.23
103-65-1	N-Propylbenzene	46.2		5.0	2.0	0.30
95-47-6	o-Xylene	48.5		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	49.2		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	46.5		5.0	2.0	0.31
100-42-5	Styrene	49.8		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	46.4		5.0	2.0	0.31
127-18-4	Tetrachloroethene	46.4		5.0	1.0	0.28
108-88-3	Toluene	46.2		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	48.0		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	50.0		5.0	1.0	0.35
79-01-6	Trichloroethene	46.4		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	58.4		5.0	2.0	0.22
75-01-4	Vinyl chloride	45.8		5.0	1.0	0.43
1330-20-7	Xylenes (total)	96.0		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		81-118
460-00-4	4-Bromofluorobenzene (Surr)	91		85-114
1868-53-7	Dibromofluoromethane (Surr)	105		80-119
2037-26-5	Toluene-d8 (Surr)	95		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8173.D
Lims ID: 280-99527-A-1 MSD
Client ID: 6MW2005MSD
Sample Type: MSD
Inject. Date: 01-Aug-2017 20:13:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-011
Misc. Info.: 280-99527-A-1 MSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:55:27 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:55:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.878	0.011	99	460509	50.0	52.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	209556	50.0	48.8	
3 Chloromethane	50	2.091	2.091	0.000	99	519605	50.0	42.3	
4 Vinyl chloride	62	2.197	2.197	0.000	98	411779	50.0	45.8	
121 Butadiene	39	2.221	2.209	0.012	88	352525	50.0	48.5	
5 Bromomethane	94	2.576	2.576	0.000	92	149468	50.0	54.1	
6 Chloroethane	64	2.741	2.741	0.000	98	133415	50.0	47.0	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	99	379531	50.0	58.4	
122 Dichlorofluoromethane	67	3.014	3.014	0.000	97	382708	50.0	54.5	
8 Ethyl ether	74	3.357	3.357	0.000	93	187729	50.0	51.8	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	95	410151	50.0	47.7	
10 Carbon disulfide	76	3.617	3.605	0.012	99	1489012	50.0	49.8	
11 Ethanol	45	3.605	3.605	0.000	25	91210	2000.0	2052.0	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.700	0.012	95	288558	50.0	49.9	
13 Iodomethane	142	3.794	3.795	-0.001	97	533397	50.0	50.6	
14 Acrolein	56	4.149	4.138	0.011	100	162280	250.0	278.7	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	464066	50.0	52.2	
16 Isopropyl alcohol	45	4.504	4.493	0.011	97	118498	500.0	557.4	
17 Methylene Chloride	84	4.528	4.528	0.000	95	374831	50.0	47.6	
18 Acetone	43	4.646	4.647	-0.001	99	54241	50.0	46.7	
19 trans-1,2-Dichloroethene	96	4.800	4.789	0.011	98	435818	50.0	48.0	
20 Methyl acetate	74	4.883	4.871	0.012	98	58981	250.0	252.6	
21 Hexane	86	4.942	4.942	0.000	88	147973	50.0	51.2	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	92	658801	50.0	50.1	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	96	164317	500.0	473.9	
24 Acetonitrile	41	5.380	5.380	0.000	100	226805	500.0	510.5	
25 Isopropyl ether	45	5.652	5.641	0.012	95	1223501	50.0	51.9	
27 2-Chloro-1,3-butadiene	53	5.735	5.723	0.012	91	746965	50.0	50.3	
28 1,1-Dichloroethane	63	5.771	5.759	0.012	97	738994	50.0	47.2	
S 26 1,2-Dichloroethene, Total	96				0			98.1	
29 Acrylonitrile	53	5.865	5.865	0.000	99	696608	500.0	501.3	

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	6.185	6.185	0.000	98	969619	50.0	56.2	
31 Vinyl acetate	43	6.208	6.197	0.011	97	595410	50.0	62.7	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	80	445998	50.0	50.1	
33 2,2-Dichloropropane	77	6.705	6.705	0.000	93	427809	50.0	50.8	
34 Cyclohexane	84	6.800	6.800	0.000	90	719187	50.0	48.0	
35 Chlorobromomethane	128	6.824	6.824	0.000	95	142630	50.0	52.9	
36 Chloroform	83	6.954	6.954	0.000	94	639290	50.0	47.9	
37 Carbon tetrachloride	117	7.108	7.108	0.000	98	478507	50.0	49.2	
38 Tetrahydrofuran	71	7.167	7.167	0.000	92	41198	100.0	103.3	
39 Ethyl acetate	45	7.179	7.179	0.000	96	53240	100.0	101.2	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	93	314460	50.0	52.4	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	578246	50.0	49.3	
42 1,1-Dichloropropene	75	7.380	7.380	0.000	96	591414	50.0	47.6	
43 2-Butanone (MEK)	43	7.404	7.392	0.012	100	83841	50.0	49.7	
124 Isooctane	57	7.546	7.546	0.000	96	2009499	50.0	49.3	
117 n-Heptane	43	7.699	7.699	0.000	74	845146	50.0	50.3	
44 Benzene	78	7.711	7.699	0.012	96	1638498	50.0	46.4	
45 Propionitrile	54	7.770	7.770	0.000	94	251468	500.0	504.2	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	1193545	500.0	512.7	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	87	300237	50.0	53.1	
48 Tert-amyl methyl ether	73	7.912	7.901	0.011	96	693573	50.0	56.6	
49 1,2-Dichloroethane	62	7.983	7.983	0.000	96	361795	50.0	50.5	
50 Isobutyl alcohol	42	8.102	8.102	0.000	94	121715	1250.0	1181.6	
* 51 Fluorobenzene	96	8.267	8.267	0.000	99	1548940	50.0	50.0	
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55	8.445	8.445	0.000	90	718211	50.0	48.8	
53 Trichloroethene	95	8.468	8.469	-0.001	98	422809	50.0	46.4	
A 126 C6-C12	1	8.921	(3.966-13.876)		0	132793526		NC	
54 n-Butanol	56	8.989	8.989	0.000	88	125402	1250.0	1126.5	
55 Dibromomethane	93	9.001	9.001	0.000	96	152832	50.0	52.2	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	97	386530	50.0	49.6	
123 Ethyl acrylate	55	9.226	9.226	0.000	97	264692	50.0	53.5	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	436114	50.0	52.1	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	297891	100.0	109.7	
59 1,4-Dioxane	88	9.498	9.498	0.000	83	37957	1000.0	1051.8	
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63		9.983				ND	ND	
61 cis-1,3-Dichloropropene	75	10.030	10.031	-0.001	96	516990	50.0	52.4	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1493449	50.0	47.6	
63 Toluene	92	10.314	10.315	0.000	98	1038174	50.0	46.2	
64 2-Nitropropane	43	10.622	10.622	0.000	99	90964	100.0	96.3	
65 Tetrachloroethene	164	10.776	10.776	0.000	95	307873	50.0	46.4	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	96	182527	50.0	49.3	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	94	404591	50.0	50.0	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	88	192790	50.0	44.5	
69 Ethyl methacrylate	69	11.048	11.048	0.000	85	300148	50.0	43.1	
70 Chlorodibromomethane	129	11.202	11.202	0.000	90	241787	50.0	49.9	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	92	425348	50.0	46.6	
72 Ethylene Dibromide	107	11.450	11.450	0.000	99	203069	50.0	43.9	
S 73 1,3-Dichloropropene, Total	75				0			102.3	
118 n-Butyl acetate	43	11.640	11.640	0.000	99	319097	50.0	47.1	
74 2-Hexanone	43	11.723	11.723	0.000	96	130737	50.0	42.8	

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	11.995	11.995	0.000	87	980394	50.0	50.0	
75 1-Chlorohexane	91	12.007	12.007	0.000	78	658039	50.0	44.8	
77 Chlorobenzene	112	12.007	12.007	0.000	94	968089	50.0	46.6	
78 Ethylbenzene	91	12.042	12.042	0.000	97	1951047	50.0	46.1	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	95	287306	50.0	48.9	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	96	713595	50.0	47.5	
82 o-Xylene	106	12.622	12.610	0.012	97	665090	50.0	48.5	
83 Styrene	104	12.669	12.669	0.000	95	1037416	50.0	49.8	
84 Bromoform	173	12.681	12.681	0.000	96	107073	50.0	47.6	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1795182	50.0	46.2	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	487903	50.0	45.3	
87 Bromobenzene	156	13.273	13.273	0.000	95	334876	50.0	48.3	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2168908	50.0	46.2	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	226528	50.0	43.7	
90 2-Chlorotoluene	91	13.450	13.450	0.000	96	1218023	50.0	45.5	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	95	1344988	50.0	46.7	
92 1,2,3-Trichloropropane	110	13.497	13.498	-0.001	80	62452	50.0	43.9	
93 trans-1,4-Dichloro-2-buten	53	13.545	13.533	0.012	87	67536	50.0	43.5	
94 Cyclohexanone	55	13.545	13.545	0.000	68	47697	500.0	365.1	
95 4-Chlorotoluene	91	13.604	13.604	0.000	98	1217179	50.0	45.5	
81 Pentachloroethane	167		13.776					ND	
96 tert-Butylbenzene	119	13.781	13.782	-0.001	93	1186188	50.0	46.4	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	1339339	50.0	46.9	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	1874812	50.0	46.5	
99 4-Isopropyltoluene	119	14.065	14.066	-0.001	97	1509615	50.0	49.2	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	655901	50.0	47.1	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	402829	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.208	-0.001	91	614461	50.0	46.7	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1192787	50.0	46.2	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	391474	50.0	51.2	
120 Benzyl chloride	126	14.432	14.432	0.000	89	82475	50.0	53.7	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	539564	50.0	46.9	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	85	28896	50.0	43.3	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	65	167080	50.0	69.5	
107 1,3,5-Trichlorobenzene	180	15.296	15.296	0.000	97	450658	50.0	50.4	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	207960	50.0	51.2	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	95	350204	50.0	51.2	
110 Naphthalene	128	16.113	16.113	0.000	97	616193	50.0	49.8	
111 1,2,3-Trichlorobenzene	180	16.278	16.266	0.012	96	289461	50.0	51.3	
S 112 Xylenes, Total	106				0			96.0	
S 113 Trihalomethanes, Total	1				0			197.5	
127 2-Methylpentane	43	4.138	4.061	0.077	0	2307		NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

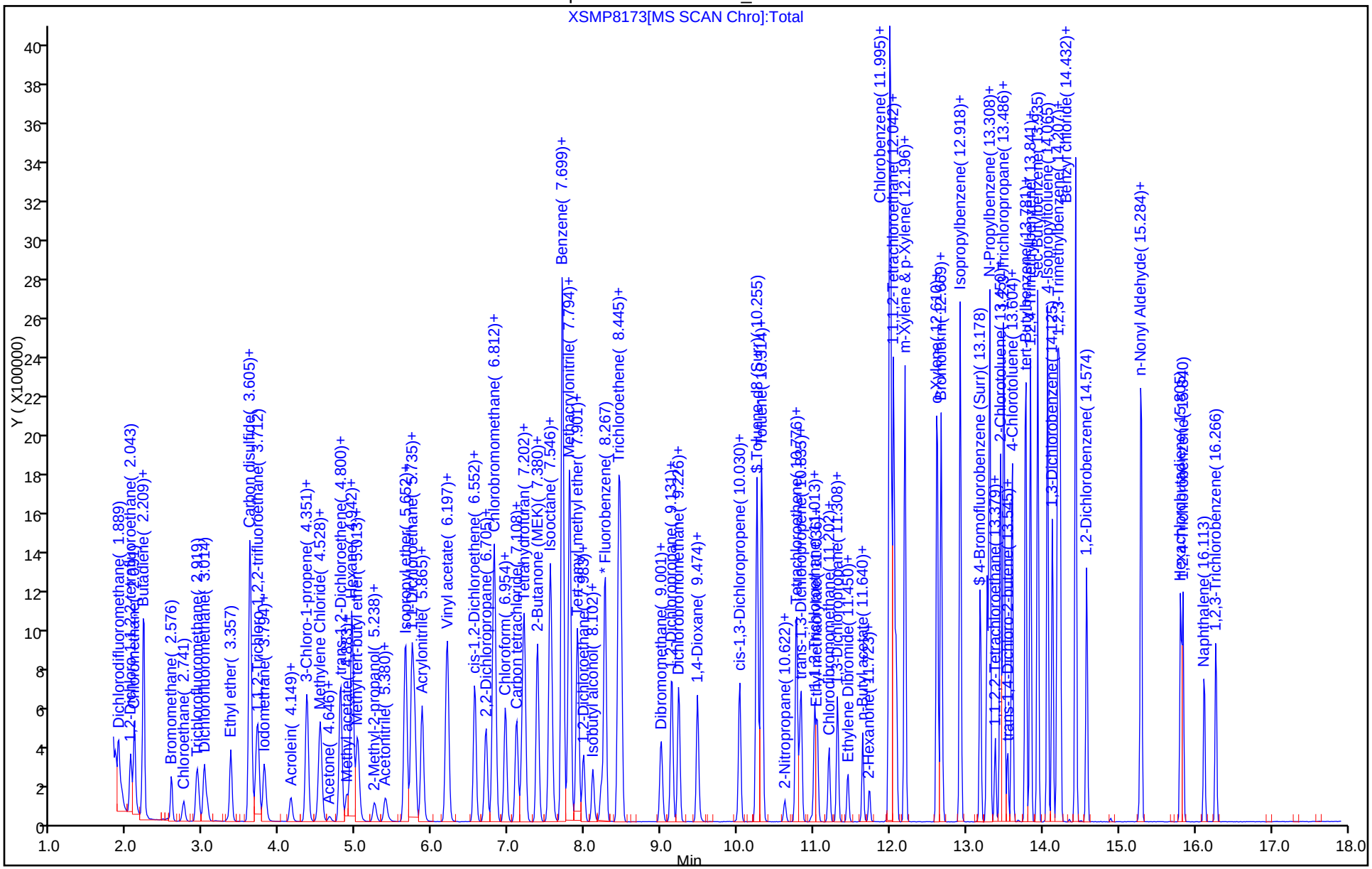
8260 NewWkMix_00230	Amount Added:	10.00	Units: uL	
I.S. Working_00150	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00076	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 02-Aug-2017 15:55:27 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8173.D

Injection Date:	01-Aug-2017 20:13:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-99527-A-1 MSD			Worklist Smp#:	11
Client ID:	6MW2005MSD				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\XSMP8173.D
Lims ID: 280-99527-A-1 MSD
Client ID: 6MW2005MSD
Sample Type: MSD
Inject. Date: 01-Aug-2017 20:13:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011086-011
Misc. Info.: 280-99527-A-1 MSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170801-11086.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 02-Aug-2017 15:55:27 Calib Date: 30-Jun-2017 12:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170630-10876.b\XICL7926.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 02-Aug-2017 15:55:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	52.4	104.87
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	53.1	106.24
$ 62 Toluene-d8 (Surr)	50.0	47.6	95.26
$ 86 4-Bromofluorobenzene (Surr)	50.0	45.3	90.53

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Instrument ID: VMSX Start Date: 06/30/2017 08:28

Analysis Batch Number: 315895 End Date: 06/30/2017 13:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-315895/1		06/30/2017 08:28	1	XBFB7917.D	RTXVMS30 0.25(mm)
IC 160-315895/2		06/30/2017 09:17	1	XICL7919.D	RTXVMS30 0.25(mm)
IC 160-315895/3		06/30/2017 09:42	1	XICL7920.D	RTXVMS30 0.25(mm)
IC 160-315895/4		06/30/2017 10:07	1	XICL7921.D	RTXVMS30 0.25(mm)
IC 160-315895/5		06/30/2017 10:32	1	XICL7922.D	RTXVMS30 0.25(mm)
IC 160-315895/6		06/30/2017 10:57	1	XICL7923.D	RTXVMS30 0.25(mm)
ICIS 160-315895/7		06/30/2017 11:22	1	XICL7924.D	RTXVMS30 0.25(mm)
IC 160-315895/8		06/30/2017 11:47	1	XICL7925.D	RTXVMS30 0.25(mm)
IC 160-315895/9		06/30/2017 12:12	1	XICL7926.D	RTXVMS30 0.25(mm)
ICV 160-315895/12		06/30/2017 13:01	1	XICV7928.D	RTXVMS30 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Instrument ID: VMSX Start Date: 08/01/2017 15:27

Analysis Batch Number: 320257 End Date: 08/01/2017 23:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-320257/2		08/01/2017 15:27	1	XBFB8164.D	RTXVMS30 0.25(mm)
CCV 160-320257/3		08/01/2017 15:49	1	XCCV8165.D	RTXVMS30 0.25(mm)
LCS 160-320257/4		08/01/2017 16:34	1	XLCS8166.D	RTXVMS30 0.25(mm)
ZZZZZ		08/01/2017 17:14	1		RTXVMS30 0.25(mm)
MB 160-320257/6		08/01/2017 17:50	1	XBLK8168.D	RTXVMS30 0.25(mm)
280-99527-10		08/01/2017 18:16	1	XSMP8169.D	RTXVMS30 0.25(mm)
280-99527-11		08/01/2017 18:55	1	XSMP8170.D	RTXVMS30 0.25(mm)
280-99527-1		08/01/2017 19:21	1	XSMP8171.D	RTXVMS30 0.25(mm)
280-99527-1 MS		08/01/2017 19:47	1	XSMP8172.D	RTXVMS30 0.25(mm)
280-99527-1 MSD		08/01/2017 20:13	1	XSMP8173.D	RTXVMS30 0.25(mm)
280-99527-5		08/01/2017 21:07	1	XSMP8175.D	RTXVMS30 0.25(mm)
280-99527-6		08/01/2017 21:32	1	XSMP8176.D	RTXVMS30 0.25(mm)
280-99527-7		08/01/2017 21:58	1	XSMP8177.D	RTXVMS30 0.25(mm)
ZZZZZ		08/01/2017 22:24	1		RTXVMS30 0.25(mm)
280-99527-9		08/01/2017 22:50	1	XSMP8179.D	RTXVMS30 0.25(mm)
280-99527-13		08/01/2017 23:26	1	XSMP8180.D	RTXVMS30 0.25(mm)
CCVC 160-320257/19		08/01/2017 23:52	1	XCCV8181.D	RTXVMS30 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. Louis Job No.: 280-99527-1

SDG No.:

Instrument ID: VMSX Start Date: 08/02/2017 16:21

Analysis Batch Number: 320393 End Date: 08/02/2017 19:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-320393/2		08/02/2017 16:21	1	XBFB8183.D	RTXVMS30 0.25(mm)
CCV 160-320393/3		08/02/2017 16:44	1	XCCV8184.D	RTXVMS30 0.25(mm)
LCS 160-320393/4		08/02/2017 17:20	1	XLCS8185.D	RTXVMS30 0.25(mm)
LCSD 160-320393/5		08/02/2017 17:50	1	XLCS8186.D	RTXVMS30 0.25(mm)
ZZZZZ		08/02/2017 18:19	1		RTXVMS30 0.25(mm)
MB 160-320393/7		08/02/2017 18:45	1	XBLK8188.D	RTXVMS30 0.25(mm)
280-99527-8 RA		08/02/2017 19:10	1	XSMP8189.D	RTXVMS30 0.25(mm)
CCVC 160-320393/9		08/02/2017 19:36	1	XCCV8190.D	RTXVMS30 0.25(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-99527-1

SDG No.:

Project: Stratton ANGB, NY

Client Sample ID	Lab Sample ID
6MW2005	280-99527-1
6MW2205	280-99527-5
6MW2305	280-99527-6
6MW2405	280-99527-7
6MW2505	280-99527-8
6MW2605	280-99527-9

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2005 Lab Sample ID: 280-99527-1

Lab Name: TestAmerica Denver Job No.: 280-99527-1

SDG ID.:

Matrix: Water Date Sampled: 07/21/2017 09:35

Reporting Basis: WET Date Received: 07/25/2017 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	8.6	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2205 Lab Sample ID: 280-99527-5

Lab Name: TestAmerica Denver Job No.: 280-99527-1

SDG ID.:

Matrix: Water Date Sampled: 07/21/2017 11:05

Reporting Basis: WET Date Received: 07/25/2017 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	83	2.2	1.1	0.34	mg/L			2.17	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2305 Lab Sample ID: 280-99527-6

Lab Name: TestAmerica Denver Job No.: 280-99527-1

SDG ID.:

Matrix: Water Date Sampled: 07/21/2017 12:00

Reporting Basis: WET Date Received: 07/25/2017 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	3.9	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2405 Lab Sample ID: 280-99527-7

Lab Name: TestAmerica Denver Job No.: 280-99527-1

SDG ID.:

Matrix: Water Date Sampled: 07/21/2017 12:40

Reporting Basis: WET Date Received: 07/25/2017 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	5.9	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2505 Lab Sample ID: 280-99527-8

Lab Name: TestAmerica Denver Job No.: 280-99527-1

SDG ID.:

Matrix: Water Date Sampled: 07/21/2017 13:40

Reporting Basis: WET Date Received: 07/25/2017 09:00

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: 6MW2605 Lab Sample ID: 280-99527-9

Lab Name: TestAmerica Denver Job No.: 280-99527-1

SDG ID.:

Matrix: Water Date Sampled: 07/21/2017 14:30

Reporting Basis: WET Date Received: 07/25/2017 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	5.4	1.0	0.50	0.16	mg/L			1	9060A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-99527-1

SDG No.:

Analyst: CCJ Batch Start Date: 07/27/2017

Reporting Units: mg/L Analytical Batch No.: 382409

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	ICV	16:35	Total Organic Carbon - Quad	20.0	20.0	100	90-110		TOC ICV Std_00030
3	ICB	16:51	Total Organic Carbon - Quad	0.162				J	
16	CCV	20:24	Total Organic Carbon - Quad	23.3	25.0	93	90-110		TOC LCS Std_00037
17	CCB	20:40	Total Organic Carbon - Quad	0.187				J	
28	CCV	23:33	Total Organic Carbon - Quad	23.6	25.0	94	90-110		TOC LCS Std_00037
29	CCB	23:48	Total Organic Carbon - Quad	0.276				J	
40	CCV	02:35	Total Organic Carbon - Quad	23.1	25.0	93	90-110		TOC LCS Std_00037
41	CCB	02:51	Total Organic Carbon - Quad	0.212				J	
52	CCV	05:53	Total Organic Carbon - Quad	23.9	25.0	96	90-110		TOC LCS Std_00037
53	CCB	06:13	Total Organic Carbon - Quad	0.229				J	
64	CCV	09:10	Total Organic Carbon - Quad	23.3	25.0	93	90-110		TOC LCS Std_00037
65	CCB	09:26	Total Organic Carbon - Quad	0.262				J	
68	CCV	10:11	Total Organic Carbon - Quad	23.7	25.0	95	90-110		TOC LCS Std_00037
69	CCB	10:29	Total Organic Carbon - Quad	0.305				J	

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: TestAmerica Denver Job No.: 280-99527-1

SDG No.:

Analyst: CCJ Batch Start Date: 07/28/2017

Reporting Units: mg/L Analytical Batch No.: 382568

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	13:40	Total Organic Carbon - Quad	21.0	20.0	105	90-110		TOC ICV Std_00031
2	ICB	13:55	Total Organic Carbon - Quad	0.50				U	
16	CCV	17:30	Total Organic Carbon - Quad	24.9	25.0	100	90-110		TOC LCS Std_00037
17	CCB	17:45	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: TestAmerica Denver Job No.: 280-99527-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 382409 Date: 07/27/2017 17:22							
9060A	MB 280-382409/5	Total Organic Carbon - Quad	0.198	J	mg/L	1.0	1
Batch ID: 382409 Date: 07/28/2017 01:35							
9060A	MB 280-382409/36	Total Organic Carbon - Quad	0.227	J	mg/L	1.0	1
Batch ID: 382568 Date: 07/28/2017 14:44							
9060A	MB 280-382568/5	Total Organic Carbon - Quad	0.50	U	mg/L	1.0	1

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-99527-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 382409	Date: 07/27/2017 17:06										
						LCS Source: TOC LCS Std_00037					
9060A	LCS 280-382409/4	Total Organic Carbon - Quad	24.4		mg/L	25.0	98	88-112			
Batch ID: 382409	Date: 07/28/2017 01:19										
						LCS Source: TOC LCS Std_00037					
9060A	LCS 280-382409/35	Total Organic Carbon - Quad	23.1		mg/L	25.0	93	88-112			
Batch ID: 382568	Date: 07/28/2017 14:12										
						LCS Source: TOC LCS Std_00037					
9060A	LCS 280-382568/3	Total Organic Carbon - Quad	25.2		mg/L	25.0	101	88-112	1	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: TestAmerica Denver Job No.: 280-99527-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 382568	Date: 07/28/2017 14:27										
						LCSD Source: TOC LCS Std_00037					
9060A	LCSD 280-382568/4	Total Organic Carbon - Quad	25.5		mg/L	25.0	102	88-112	1	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: TestAmerica Denver Job Number: 280-99527-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI2

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: TestAmerica Denver Job Number: 280-99527-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI2

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

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-99527-1

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: TestAmerica Denver Job Number: 280-99527-1

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: TestAmerica Denver Job No.: 280-99527-1

SDG No.:

Instrument ID: WC_SHI2 Analysis Method: 9060A

Start Date: 07/27/2017 15:29 End Date: 07/28/2017 10:29

Lab Sample Id	D/F	Type	Time	Analytes																										
				TOCQ																										
ZZZZZZ			15:29																											
ICV 280-382409/2	1		16:35	X																										
ICB 280-382409/3	1		16:51	X																										
LCS 280-382409/4	1	T	17:06	X																										
MB 280-382409/5	1	T	17:22	X																										
ZZZZZZ			17:36																											
ZZZZZZ			17:51																											
ZZZZZZ			18:10																											
ZZZZZZ			18:29																											
ZZZZZZ			18:50																											
ZZZZZZ			19:05																											
ZZZZZZ			19:22																											
ZZZZZZ			19:37																											
ZZZZZZ			19:52																											
ZZZZZZ			20:08																											
CCV 280-382409/16	1		20:24	X																										
CCB 280-382409/17	1		20:40	X																										
ZZZZZZ			20:55																											
ZZZZZZ			21:10																											
ZZZZZZ			21:26																											
ZZZZZZ			21:41																											
ZZZZZZ			21:56																											
ZZZZZZ			22:13																											
ZZZZZZ			22:27																											
ZZZZZZ			22:42																											
280-99527-1	1	T	22:57	X																										
280-99527-5	2.17	T	23:15	X																										
CCV 280-382409/28	1		23:33	X																										
CCB 280-382409/29	1		23:48	X																										
280-99527-6	1	T	00:03	X																										
280-99527-7	1	T	00:18	X																										
ZZZZZZ			00:33																											
ZZZZZZ			00:48																											
ZZZZZZ			01:03																											
LCS 280-382409/35	1	T	01:19	X																										
MB 280-382409/36	1	T	01:35	X																										
ZZZZZZ			01:49																											
ZZZZZZ			02:04																											
ZZZZZZ			02:19																											
CCV 280-382409/40	1		02:35	X																										

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-99527-1

SDG No.:

Instrument ID: WC_SHI2 Analysis Method: 9060A

Start Date: 07/27/2017 15:29 End Date: 07/28/2017 10:29

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
CCB 280-382409/41	1		02:51	X																									
ZZZZZZ			03:06																										
ZZZZZZ			03:24																										
ZZZZZZ			03:40																										
ZZZZZZ			03:57																										
ZZZZZZ			04:12																										
ZZZZZZ			04:30																										
ZZZZZZ			04:45																										
ZZZZZZ			05:04																										
ZZZZZZ			05:19																										
ZZZZZZ			05:38																										
CCV 280-382409/52	1		05:53	X																									
CCB 280-382409/53	1		06:13	X																									
ZZZZZZ			06:28																										
ZZZZZZ			06:42																										
ZZZZZZ			06:59																										
ZZZZZZ			07:16																										
ZZZZZZ			07:34																										
ZZZZZZ			07:49																										
ZZZZZZ			08:06																										
ZZZZZZ			08:23																										
ZZZZZZ			08:37																										
ZZZZZZ			08:54																										
CCV 280-382409/64	1		09:10	X																									
CCB 280-382409/65	1		09:26	X																									
ZZZZZZ			09:40																										
280-99527-8	1	T	09:56	X																									
CCV 280-382409/68	1		10:11	X																									
CCB 280-382409/69	1		10:29	X																									

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-99527-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 07/28/2017 13:40 End Date: 07/29/2017 07:47

Lab Sample Id	D/F	Type	Time	Analytes																								
				TOCQ																								
ICV 280-382568/1	1		13:40	X																								
ICB 280-382568/2	1		13:55	X																								
LCS 280-382568/3	1	T	14:12	X																								
LCSD 280-382568/4	1	T	14:27	X																								
MB 280-382568/5	1	T	14:44	X																								
ZZZZZZ			14:58																									
ZZZZZZ			15:13																									
ZZZZZZ			15:28																									
ZZZZZZ			15:43																									
280-99527-9	1	T	15:57	X																								
ZZZZZZ			16:12																									
ZZZZZZ			16:29																									
ZZZZZZ			16:44																									
ZZZZZZ			16:58																									
ZZZZZZ			17:15																									
CCV 280-382568/16	1		17:30	X																								
CCB 280-382568/17	1		17:45	X																								
ZZZZZZ			18:01																									
ZZZZZZ			18:18																									
ZZZZZZ			18:33																									
ZZZZZZ			18:48																									
ZZZZZZ			19:06																									
ZZZZZZ			19:21																									
ZZZZZZ			19:36																									
ZZZZZZ			19:53																									
ZZZZZZ			20:09																									
ZZZZZZ			20:26																									
CCV 280-382568/28			20:43																									
CCB 280-382568/29			21:00																									
ZZZZZZ			21:16																									
ZZZZZZ			21:33																									
ZZZZZZ			21:50																									
ZZZZZZ			22:07																									
ZZZZZZ			22:22																									
ZZZZZZ			22:37																									
ZZZZZZ			22:52																									
ZZZZZZ			23:07																									
ZZZZZZ			23:21																									
ZZZZZZ			23:36																									
CCV 280-382568/40			23:55																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-99527-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 07/28/2017 13:40 End Date: 07/29/2017 07:47

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
CCB 280-382568/41			00:10																										
ZZZZZZ			00:24																										
ZZZZZZ			00:39																										
ZZZZZZ			00:54																										
ZZZZZZ			01:09																										
ZZZZZZ			01:23																										
ZZZZZZ			01:39																										
ZZZZZZ			01:55																										
ZZZZZZ			02:12																										
ZZZZZZ			02:29																										
ZZZZZZ			02:44																										
CCV 280-382568/52			02:58																										
CCB 280-382568/53			03:13																										
ZZZZZZ			03:28																										
ZZZZZZ			03:47																										
ZZZZZZ			04:01																										
ZZZZZZ			04:16																										
ZZZZZZ			04:33																										
ZZZZZZ			04:48																										
ZZZZZZ			05:02																										
ZZZZZZ			05:19																										
ZZZZZZ			05:40																										
ZZZZZZ			05:59																										
CCV 280-382568/64			06:14																										
CCB 280-382568/65			06:29																										
ZZZZZZ			06:46																										
ZZZZZZ			07:00																										
ZZZZZZ			07:17																										
CCV 280-382568/69			07:32																										
CCB 280-382568/70			07:47																										

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-99527-1

SDG No.:

Batch Number: 382409 Batch Start Date: 07/27/17 15:29 Batch Analyst: Jewell, Connie C

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TOC ICV Std 00030	TOC LCS Std 00037	AnalysisComment		
ICV 280-382409/2		9060A		50 mL	1 mL				
LCS 280-382409/4		9060A		200 mL		5 mL			
CCV 280-382409/16		9060A		200 mL		5 mL			
280-99527-A-5	6MW2205	9060A	T				instrument dilution		
CCV 280-382409/28		9060A		200 mL		5 mL			
LCS 280-382409/35		9060A		200 mL		5 mL			
CCV 280-382409/40		9060A		200 mL		5 mL			
CCV 280-382409/52		9060A		200 mL		5 mL			
CCV 280-382409/64		9060A		200 mL		5 mL			
CCV 280-382409/68		9060A		200 mL		5 mL			

Batch Notes	
Sulfuric Acid ID	H2SO4_00170, 0.2%H2SO4_00272
Pipette ID	wc5000cj, wc1000cj, wc200cj

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: TestAmerica Denver Job No.: 280-99527-1

SDG No.:

Batch Number: 382568 Batch Start Date: 07/28/17 13:40 Batch Analyst: Jewell, Connie C

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TOC ICV Std 00031	TOC LCS Std 00037			
ICV 280-382568/1		9060A		50 mL	1 mL				
LCS 280-382568/3		9060A		200 mL		5 mL			
LCSD 280-382568/4		9060A		200 mL		5 mL			
CCV 280-382568/16		9060A		200 mL		5 mL			

Batch Notes	
Sulfuric Acid ID	H2SO4_00170, 0.2%H2SO4_00272
Pipette ID	wc5000cj, wc1000cj

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.

pH 7/27/17

	Analysis	Sample Name	Dilution	Result	Comment	Date / Time	Vial
1	NPOC	ICV	1.000				1
2	NPOC	ICB	1.000				2
3	NPOC	LCS	1.000				3
4	NPOC	MB	1.000				4
5	NPOC	TIC	1.000				5
6	NPOC	280-99573-b-2	1.000				6
7	NPOC	MS 280-99573-b-2	1.000				7
8	NPOC	MSD 280-99573-b-2	1.000				8
9	NPOC	280-99573-b-4	1.000				9
10	NPOC	280-99448-a-24	1.000				10
11	NPOC	280-99448-a-25	1.000				11
12	NPOC	280-99481-e-1	1.000				12
13	NPOC	280-99481-e-2	1.000				13
14	NPOC	280-99597-d-2	1.000				14
15	NPOC	CCV	1.000				15
16	NPOC	CCB	1.000				16
17	NPOC	280-99597-o-3	1.000				17
18	NPOC	MS 280-99597-o-3	1.000				18
19	NPOC	MSD 280-99597-o-3	1.000				19
20	NPOC	280-99597-d-4	1.000				20
21	NPOC	280-99597-d-5	1.000				21
22	NPOC	280-99597-d-6	1.000				22
23	NPOC	280-99597-d-7	1.000				23
24	NPOC	280-99597-d-8	1.000				24
25	NPOC	280-99527-a-1	1.000				25
26	NPOC	280-99527-a-5	1.000				26
27	NPOC	CCV	1.000				27
28	NPOC	CCB	1.000				28
29	NPOC	280-99527-a-6	1.000				29
30	NPOC	280-99527-a-7	1.000				30
31	NPOC	280-99503-a-3	1.000				31
32	NPOC	280-99503-a-8	1.000				32
33	NPOC	280-99503-a-15	1.000				33
34	NPOC	LCS	1.000				34
35	NPOC	MB	1.000				35
36	NPOC	TIC	1.000				36
37	NPOC	280-99503-c-2	1.000				37
38	NPOC	MS 280-99503-c-2	1.000				38
39	NPOC	CCV	1.000				39
40	NPOC	CCB	1.000				40
41	NPOC	MSD 280-99503-c-2	1.000				41
42	NPOC	280-99503-a-17	1.000				42
43	NPOC	280-99503-a-22	1.000				43
44	NPOC	280-99503-a-24	1.000				44
45	NPOC	280-99503-a-26	1.000				45
46	NPOC	280-99503-a-27	1.000				46
47	NPOC	280-99503-a-28	1.000				47
48	NPOC	280-99503-a-29	1.000				48
49	NPOC	280-99503-a-30	1.000				49
50	NPOC	280-99503-a-31	1.000				50
51	NPOC	CCV	1.000				51
52	NPOC	CCB	1.000				52
53	NPOC	280-99503-a-32	1.000				53
54	NPOC	280-99503-a-33	1.000				54
55	NPOC	MS 280-99503-a-33	1.000				55
56	NPOC	MSD 280-99503-a-3	1.000				56
57	NPOC	280-99503-a-34	1.000				57
58	NPOC	280-99503-a-35	1.000				58
59	NPOC	280-99503-a-36	1.000				59
60	NPOC	280-99503-a-39	1.000				60
61	NPOC	280-99503-a-40	1.000				61
62	NPOC	280-99503-a-41	1.000				62
63	NPOC	CCV	1.000				63
64	NPOC	CCB	1.000				64
65	NPOC	280-99503-a-42	1.000				65
66	NPOC	280-99527-a-8	1.000				66
67	NPOC	CCV	1.000				67

	Analysis	Sample Name	Dilution	Result	Comment	Date / Time	Vial
68	NPOC	CCB	1.000	0.0			68

	Analysis	Sample Name	Dilution	Result	Comment	Date / Time	Vial
1	NPOC	cal	1.000			07/27/2017 04:26:43	69, 70, 71, 72
2	NPOC	ICV	1.000	NPOC:20.00ppm		07/27/2017 04:42:55	1
3	NPOC	ICB	1.000	NPOC:0.1624ppm		07/27/2017 04:57:29	2
4	NPOC	LCS	1.000	NPOC:24.44ppm		07/27/2017 05:13:50	3
5	NPOC	MB	1.000	NPOC:0.1980ppm		07/27/2017 05:28:24	4
6	NPOC	TIC	1.000	NPOC:0.2128ppm		07/27/2017 05:42:58	5
7	NPOC	280-99573-b-2	1.000	NPOC:50.96ppm		07/27/2017 05:59:35	6
8	NPOC	MS 280-99573-b-2	1.000	NPOC:73.34ppm		07/27/2017 06:18:14	7
9	NPOC	MSD 280-99573-b-2	1.000	NPOC:73.92ppm		07/27/2017 06:36:44	8
10	NPOC	280-99573-b-4	1.000	NPOC:12.96ppm		07/27/2017 06:57:36	9
11	NPOC	280-99448-a-24	1.000	NPOC:4.271ppm		07/27/2017 07:12:35	10
12	NPOC	280-99448-a-25	1.000	NPOC:2.639ppm		07/27/2017 07:29:18	11
13	NPOC	280-99481-e-1	1.000	NPOC:5.824ppm		07/27/2017 07:44:13	12
14	NPOC	280-99481-e-2	1.000	NPOC:14.51ppm		07/27/2017 08:00:10	13
15	NPOC	280-99597-d-2	1.000	NPOC:3.859ppm		07/27/2017 08:15:02	14
16	NPOC	CCV	1.000	NPOC:23.28ppm		07/27/2017 08:32:28	15
17	NPOC	CCB	1.000	NPOC:0.1865ppm		07/27/2017 08:47:02	16
18	NPOC	280-99597-o-3	1.000	NPOC:3.091ppm		07/27/2017 09:01:39	17
19	NPOC	MS 280-99597-o-3	1.000	NPOC:26.57ppm		07/27/2017 09:17:25	18
20	NPOC	MSD 280-99597-o-3	1.000	NPOC:26.51ppm		07/27/2017 09:33:20	19
21	NPOC	280-99597-d-4	1.000	NPOC:3.978ppm		07/27/2017 09:48:17	20
22	NPOC	280-99597-d-5	1.000	NPOC:2.860ppm		07/27/2017 10:02:54	21
23	NPOC	280-99597-d-6	1.000	NPOC:2.885ppm		07/27/2017 10:19:39	22
24	NPOC	280-99597-d-7	1.000	NPOC:0.4898ppm		07/27/2017 10:34:12	23
25	NPOC	280-99597-d-8	1.000	NPOC:0.4774ppm		07/27/2017 10:48:47	24
26	NPOC	280-99527-a-1	1.000	NPOC:8.554ppm		07/27/2017 11:04:14	25
27	NPOC	280-99527-a-5	1.000	NPOC:82.70ppm		07/27/2017 11:24:37	26
28	NPOC	CCV	1.000	NPOC:23.57ppm		07/27/2017 11:40:42	27
29	NPOC	CCB	1.000	NPOC:0.2758ppm		07/27/2017 11:55:16	28
30	NPOC	280-99527-a-6	1.000	NPOC:3.917ppm		07/28/2017 12:10:05	29
31	NPOC	280-99527-a-7	1.000	NPOC:5.863ppm		07/28/2017 12:25:22	30
32	NPOC	280-99503-a-3	1.000	NPOC:1.990ppm		07/28/2017 12:39:57	31
33	NPOC	280-99503-a-8	1.000	NPOC:7.395ppm		07/28/2017 12:55:32	32
34	NPOC	280-99503-a-15	1.000	NPOC:3.776ppm		07/28/2017 01:10:33	33
35	NPOC	LCS	1.000	NPOC:23.13ppm		07/28/2017 01:26:48	34
36	NPOC	MB	1.000	NPOC:0.2274ppm		07/28/2017 01:41:23	35
37	NPOC	TIC	1.000	NPOC:0.2160ppm		07/28/2017 01:56:08	36
38	NPOC	280-99503-c-2	1.000	NPOC:1.684ppm		07/28/2017 02:10:43	37
39	NPOC	MS 280-99503-c-2	1.000	NPOC:24.46ppm		07/28/2017 02:26:47	38
40	NPOC	CCV	1.000	NPOC:23.15ppm		07/28/2017 02:43:07	39
41	NPOC	CCB	1.000	NPOC:0.2122ppm		07/28/2017 02:57:42	40
42	NPOC	MSD 280-99503-c-2	1.000	NPOC:24.63ppm		07/28/2017 03:13:46	41
43	NPOC	280-99503-a-17	1.000	NPOC:2.129ppm		07/28/2017 03:32:38	42
44	NPOC	280-99503-a-22	1.000	NPOC:2.723ppm		07/28/2017 03:47:15	43
45	NPOC	280-99503-a-24	1.000	NPOC:3.280ppm		07/28/2017 04:04:08	44
46	NPOC	280-99503-a-26	1.000	NPOC:9.051ppm		07/28/2017 04:20:01	45
47	NPOC	280-99503-a-27	1.000	NPOC:2.001ppm		07/28/2017 04:36:48	46
48	NPOC	280-99503-a-28	1.000	NPOC:4.013ppm		07/28/2017 04:54:07	47
49	NPOC	280-99503-a-29	1.000	NPOC:3.915ppm		07/28/2017 05:11:16	48
50	NPOC	280-99503-a-30	1.000	NPOC:4.134ppm		07/28/2017 05:26:06	49
51	NPOC	280-99503-a-31	1.000	NPOC:1.957ppm		07/28/2017 05:44:53	50
52	NPOC	CCV	1.000	NPOC:23.90ppm		07/28/2017 06:01:08	51
53	NPOC	CCB	1.000	NPOC:0.2289ppm		07/28/2017 06:19:55	52
54	NPOC	280-99503-a-32	1.000	NPOC:1.414ppm		07/28/2017 06:34:25	53
55	NPOC	280-99503-a-33	1.000	NPOC:1.381ppm		07/28/2017 06:51:06	54
56	NPOC	MS 280-99503-a-33	1.000	NPOC:25.45ppm		07/28/2017 07:07:38	55
57	NPOC	MSD 280-99503-a-3	1.000	NPOC:25.20ppm		07/28/2017 07:24:16	56
58	NPOC	280-99503-a-34	1.000	NPOC:0.8594ppm		07/28/2017 07:40:58	57
59	NPOC	280-99503-a-35	1.000	NPOC:2.373ppm		07/28/2017 07:57:41	58
60	NPOC	280-99503-a-36	1.000	NPOC:6.361ppm		07/28/2017 08:12:45	59
61	NPOC	280-99503-a-39	1.000	NPOC:1.529ppm		07/28/2017 08:29:27	60
62	NPOC	280-99503-a-40	1.000	NPOC:1.591ppm		07/28/2017 08:46:08	61
63	NPOC	280-99503-a-41	1.000	NPOC:4.506ppm		07/28/2017 09:01:27	62
64	NPOC	CCV	1.000	NPOC:23.34ppm		07/28/2017 09:17:49	63
65	NPOC	CCB	1.000	NPOC:0.2615ppm		07/28/2017 09:32:25	64
66	NPOC	280-99503-a-42	1.000	NPOC:4.442ppm		07/28/2017 09:47:34	65
67	NPOC	280-99527-a-8	1.000	NPOC:4.394ppm		07/28/2017 10:02:39	66
68	NPOC	CCV	1.000	NPOC:23.67ppm		07/28/2017 10:19:29	67
69	NPOC	CCB	1.000	NPOC:0.3045ppm		07/28/2017 10:36:11	68

Instr.Information

System	TOC-VCSH(2)
Detector	Combustion
Catalyst	Regular Sensitivity
Cell Length	long

Cal. Curve

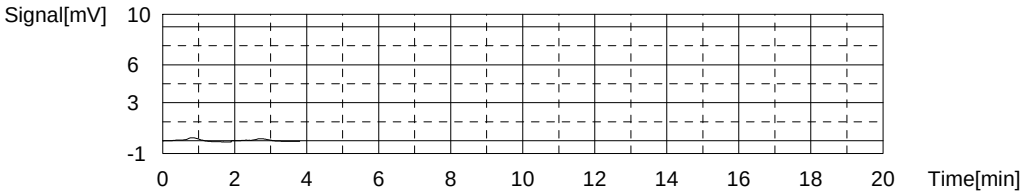
Sample Name:	cal
Sample ID:	CAL
Cal. Curve:	1-50 PPM TOC.2017_07_27_15_21_17.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.4395	50uL	1	*******		07/27/2017 03:29:31 PM
2	0.3155	50uL	1	*******		07/27/2017 03:31:37 PM

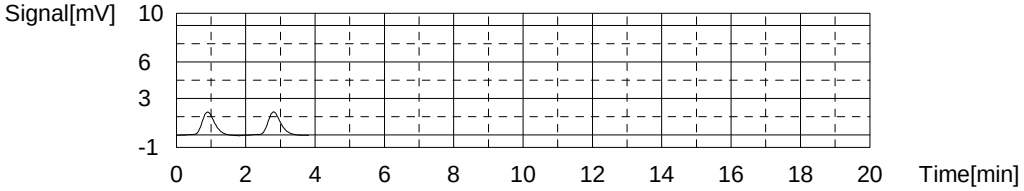
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 0.3775



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.735	50uL	1	*******		07/27/2017 03:39:57 PM
2	4.762	50uL	1	*******		07/27/2017 03:42:03 PM

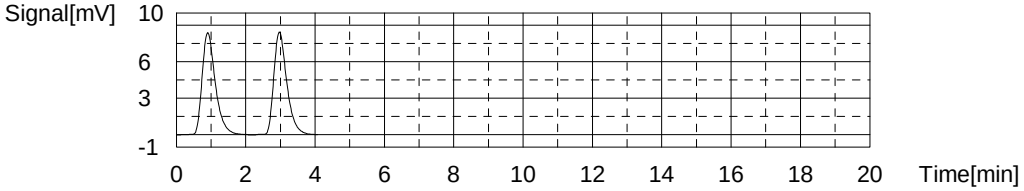
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 4.748



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	22.23	50uL	1	*******		07/27/2017 03:50:33 PM
2	22.15	50uL	1	*******		07/27/2017 03:52:45 PM

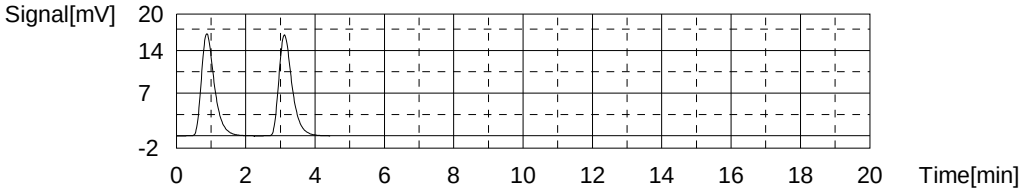
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 22.19



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	44.11	50uL	1	*******		07/27/2017 04:01:26 PM
2	44.26	50uL	1	*******		07/27/2017 04:03:50 PM

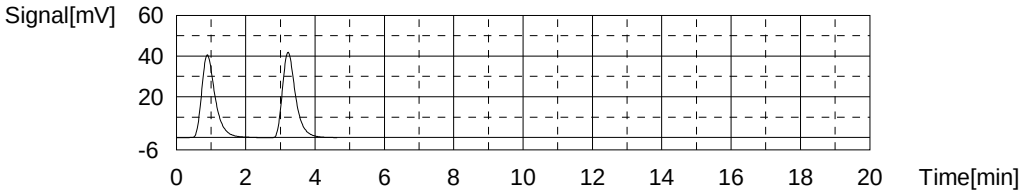
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 44.19



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	110.1	50uL	1	*******		07/27/2017 04:12:36 PM
2	111.5	50uL	1	*******		07/27/2017 04:15:07 PM

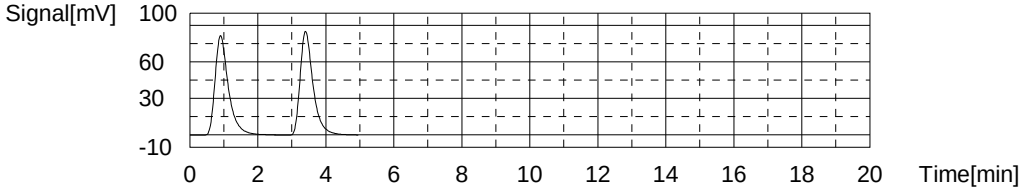
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 110.8



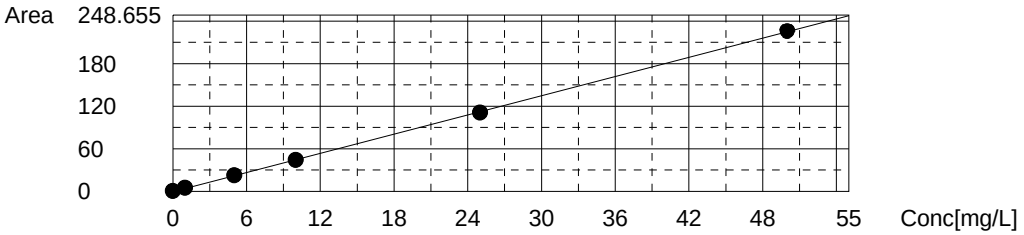
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	224.5	50uL	1	*******		07/27/2017 04:24:04 PM
2	227.6	50uL	1	*******		07/27/2017 04:26:43 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 226.1



Slope: 4.510
Intercept -0.3372
r^2 0.9999
r 0.9999
Zero Shift No



Sample

Sample Name: ICV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

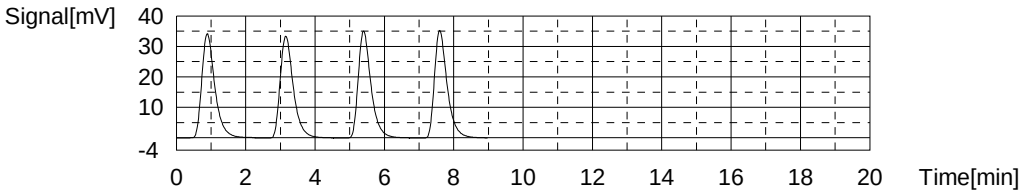
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:20.00ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.84	20.00ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 04:35:37 PM
2	88.76	19.76ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 04:38:04 PM
3	90.23	20.08ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 04:40:28 PM
4	90.63	20.17ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 04:42:55 PM

Mean Area 89.87
Mean Conc. 20.00ppm



Sample

Sample Name: ICB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

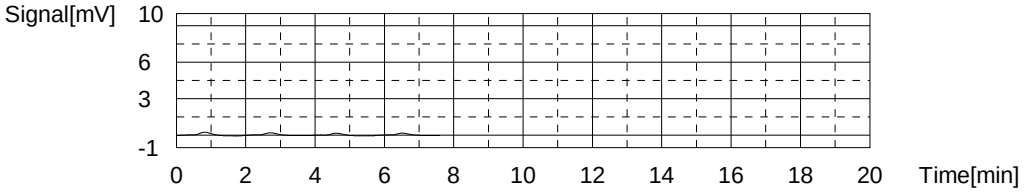
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1624ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4943	0.1844ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 04:51:11 PM
2	0.3941	0.1622ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 04:53:17 PM
3	0.3676	0.1563ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 04:55:23 PM
4	0.3240	0.1466ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 04:57:29 PM

Mean Area 0.3950
Mean Conc. 0.1624ppm



Sample

Sample Name: LCS
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

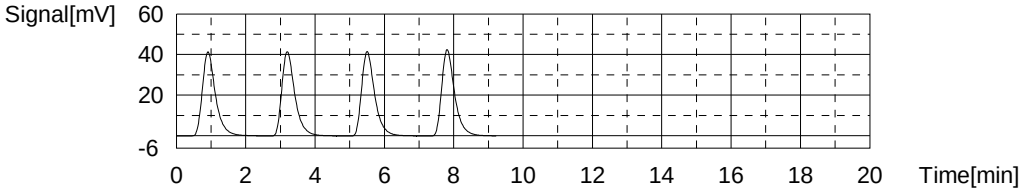
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.44ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	109.4	24.33ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:06:20 PM
2	109.4	24.33ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:08:50 PM
3	109.7	24.40ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:11:20 PM
4	111.0	24.69ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:13:50 PM

Mean Area 109.9
Mean Conc. 24.44ppm



Sample

Sample Name: MB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

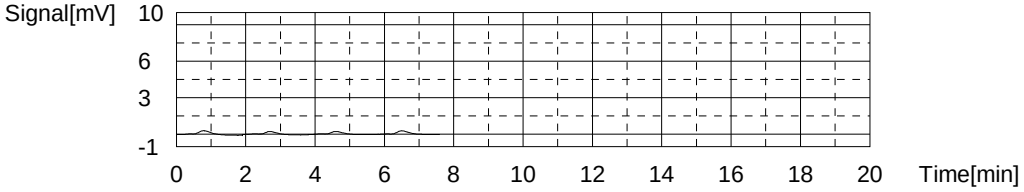
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1980ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6588	0.2209ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:22:06 PM
2	0.4732	0.1797ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:24:12 PM
3	0.4797	0.1812ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:26:18 PM
4	0.6110	0.2103ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:28:24 PM

Mean Area 0.5557
Mean Conc. 0.1980ppm



Sample

Sample Name: TIC
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

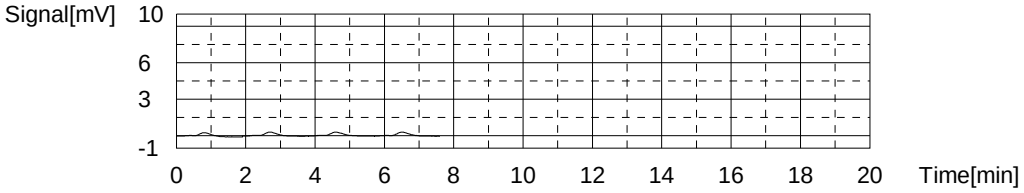
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2128ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5853	0.2046ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:36:40 PM
2	0.6127	0.2106ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:38:46 PM
3	0.6252	0.2134ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:40:52 PM
4	0.6666	0.2226ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:42:58 PM

Mean Area 0.6224
Mean Conc. 0.2128ppm



Sample

Sample Name: 280-99573-b-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

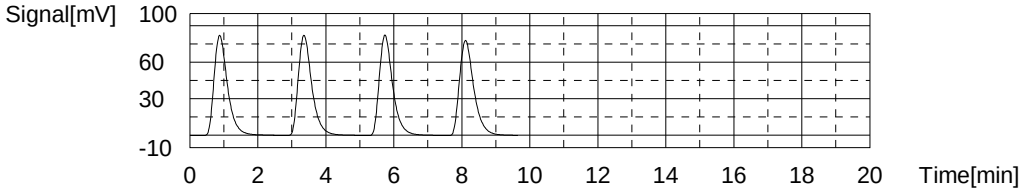
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:50.96ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	227.1	50.43ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:51:48 PM
2	231.0	51.30ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:54:23 PM
3	228.3	50.70ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:56:57 PM
4	231.5	51.41ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 05:59:35 PM

Mean Area 229.5
Mean Conc. 50.96ppm



Sample

Sample Name: MS 280-99573-b-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

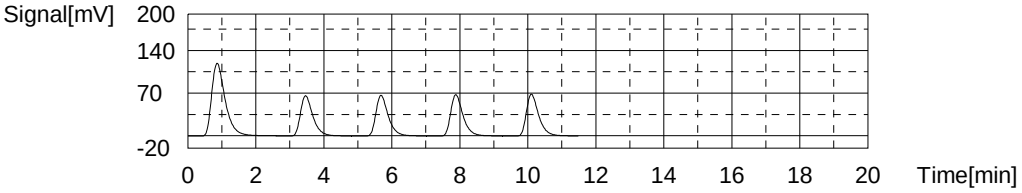
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:73.34ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	333.8	74.09ppm	50uL	1	R	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:08:33 PM
2	169.8	72.48ppm	26uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:10:58 PM
3	169.7	72.44ppm	26uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:13:22 PM
4	172.8	73.76ppm	26uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:15:48 PM
5	174.9	74.66ppm	26uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:18:14 PM

Mean Area 171.8
Mean Conc. 73.34ppm



Sample

Sample Name: MSD 280-99573-b-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

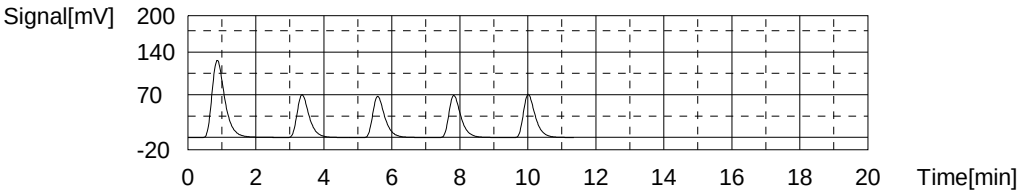
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:73.92ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	336.8	74.76ppm	50uL	1	R	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:27:05 PM
2	176.0	75.13ppm	26uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:29:31 PM
3	169.9	72.53ppm	26uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:31:57 PM
4	172.2	73.51ppm	26uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:34:21 PM
5	174.6	74.53ppm	26uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:36:44 PM

Mean Area 173.2
Mean Conc. 73.92ppm



Sample

Sample Name: 280-99573-b-4
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

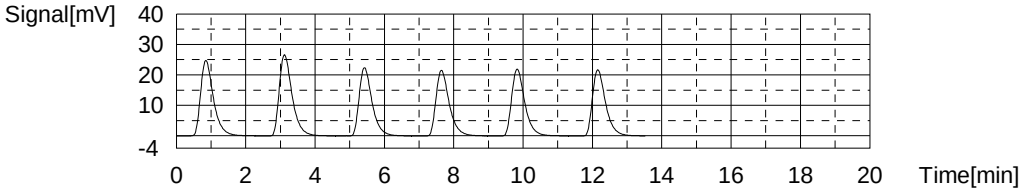
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:12.96ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	64.24	14.32ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:45:21 PM
2	69.72	15.54ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:47:51 PM
3	58.45	13.04ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:50:16 PM
4	57.61	12.85ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:52:39 PM
5	58.52	13.05ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:55:11 PM
6	57.84	12.90ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 06:57:36 PM

Mean Area 58.11
Mean Conc. 12.96ppm



Sample

Sample Name: 280-99448-a-24
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

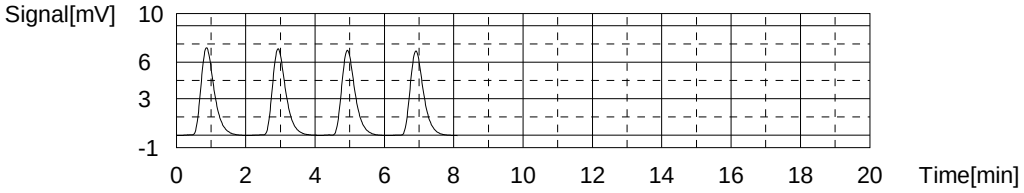
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.271ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.30	4.355ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:05:56 PM
2	18.95	4.277ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:08:07 PM
3	18.77	4.237ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:10:18 PM
4	18.68	4.217ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:12:35 PM

Mean Area 18.92
Mean Conc. 4.271ppm



Sample

Sample Name: 280-99448-a-25
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

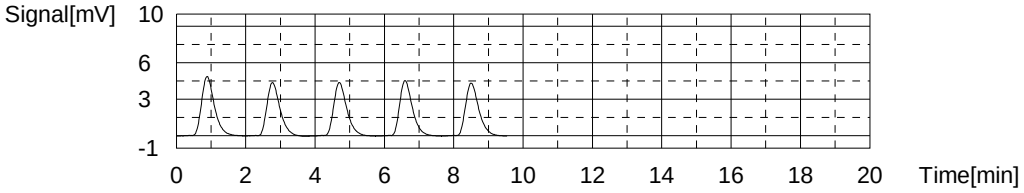
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.639ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.48	2.842ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:20:51 PM
2	11.60	2.647ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:22:59 PM
3	11.53	2.632ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:25:06 PM
4	11.58	2.643ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:27:12 PM
5	11.55	2.636ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:29:18 PM

Mean Area 11.57
Mean Conc. 2.639ppm



Sample

Sample Name: 280-99481-e-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

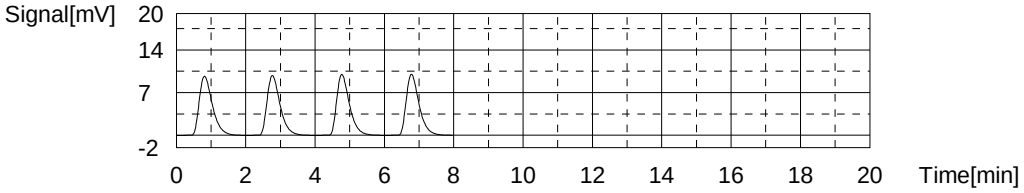
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.824ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	25.88	5.814ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:37:35 PM
2	25.91	5.820ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:39:48 PM
3	25.86	5.809ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:42:00 PM
4	26.06	5.854ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:44:13 PM

Mean Area 25.93
Mean Conc. 5.824ppm



Sample

Sample Name: 280-99481-e-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

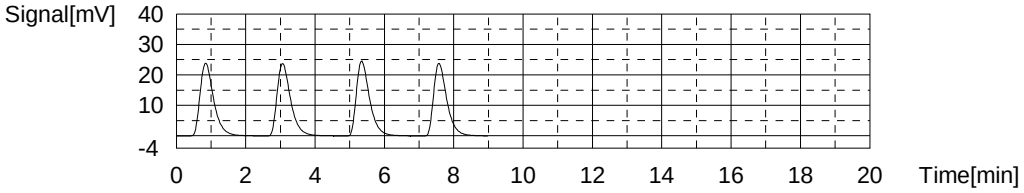
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:14.51ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	65.60	14.62ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:52:48 PM
2	65.16	14.52ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:55:18 PM
3	65.80	14.67ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 07:57:43 PM
4	63.75	14.21ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:00:10 PM

Mean Area 65.08
Mean Conc. 14.51ppm



Sample

Sample Name: 280-99597-d-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

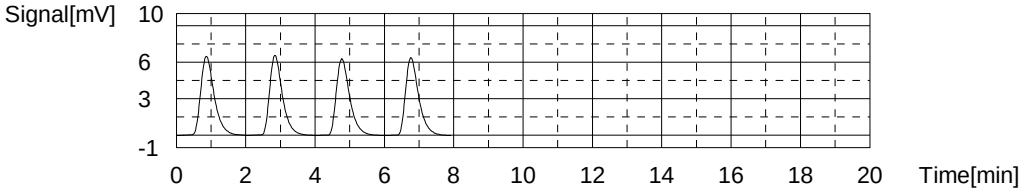
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.859ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.53	3.962ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:08:31 PM
2	16.88	3.818ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:10:39 PM
3	16.89	3.820ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:12:51 PM
4	16.97	3.838ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:15:02 PM

Mean Area 17.07
Mean Conc. 3.859ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

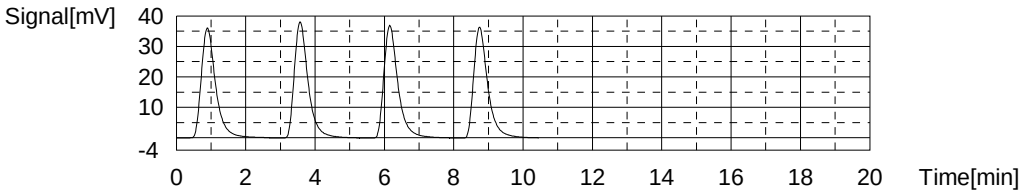
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:23.28ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	104.0	23.14ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:24:06 PM
2	106.3	23.65ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:26:53 PM
3	105.1	23.38ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:29:41 PM
4	103.2	22.96ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:32:28 PM

Mean Area 104.7
Mean Conc. 23.28ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

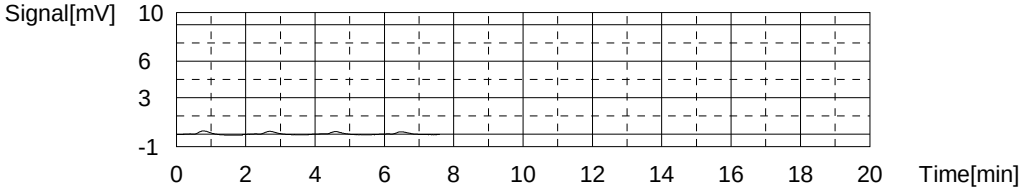
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1865ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6264	0.2137ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:40:44 PM
2	0.5200	0.1901ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:42:50 PM
3	0.4527	0.1752ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:44:56 PM
4	0.4165	0.1671ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:47:02 PM

Mean Area 0.5039
Mean Conc. 0.1865ppm



Sample

Sample Name: 280-99597-o-3
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

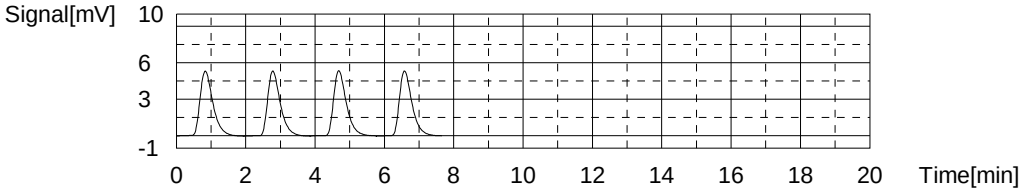
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.091ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.78	3.130ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:55:21 PM
2	13.58	3.086ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:57:27 PM
3	13.68	3.108ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 08:59:33 PM
4	13.36	3.037ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:01:39 PM

Mean Area 13.60
Mean Conc. 3.091ppm



Sample

Sample Name: MS 280-99597-o-3
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

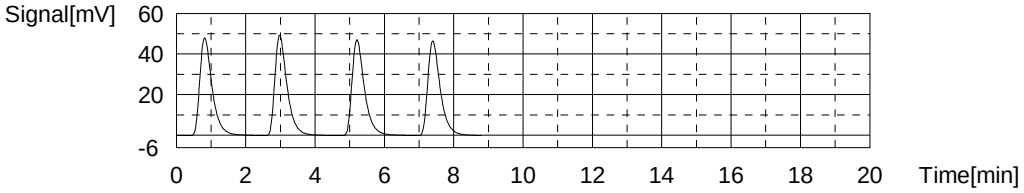
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:26.57ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	119.3	26.53ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:10:11 PM
2	122.0	27.13ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:12:36 PM
3	118.5	26.35ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:14:59 PM
4	118.2	26.29ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:17:25 PM

Mean Area 119.5
Mean Conc. 26.57ppm



Sample

Sample Name: MSD 280-99597-o-3
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

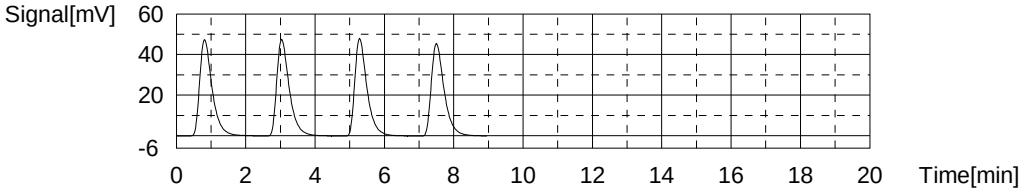
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:26.51ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	119.3	26.53ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:26:00 PM
2	120.4	26.77ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:28:27 PM
3	118.3	26.31ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:30:51 PM
4	118.9	26.44ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:33:20 PM

Mean Area 119.2
Mean Conc. 26.51ppm



Sample

Sample Name: 280-99597-d-4
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

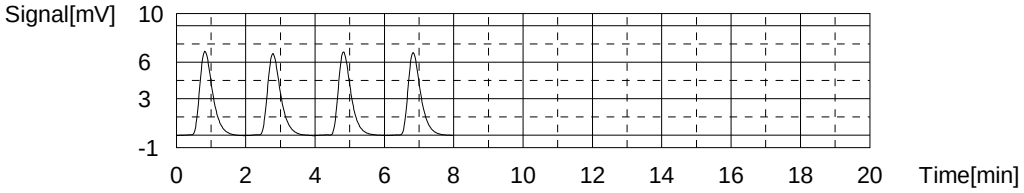
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.978ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.97	4.060ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:41:40 PM
2	17.76	4.013ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:43:54 PM
3	17.36	3.924ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:46:07 PM
4	17.31	3.913ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:48:17 PM

Mean Area 17.60
Mean Conc. 3.978ppm



Sample

Sample Name: 280-99597-d-5
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

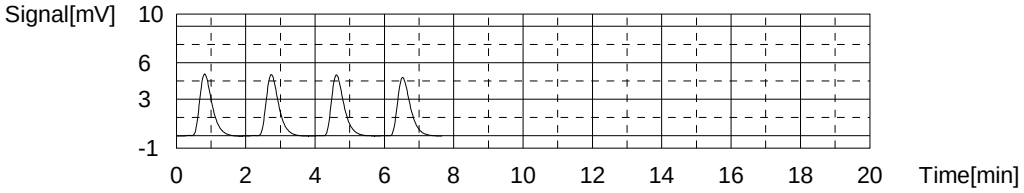
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.860ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.69	2.889ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:56:33 PM
2	12.60	2.869ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 09:58:39 PM
3	12.58	2.864ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:00:45 PM
4	12.38	2.820ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:02:54 PM

Mean Area 12.56
Mean Conc. 2.860ppm



Sample

Sample Name: 280-99597-d-6
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

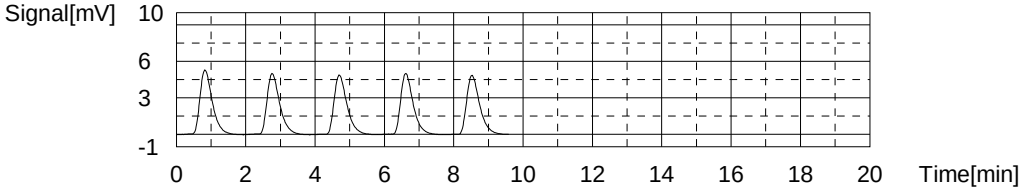
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.885ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.16	2.993ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:11:12 PM
2	12.80	2.913ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:13:20 PM
3	12.56	2.860ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:15:27 PM
4	12.58	2.864ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:17:33 PM
5	12.75	2.902ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:19:39 PM

Mean Area 12.67
Mean Conc. 2.885ppm



Sample

Sample Name: 280-99597-d-7
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

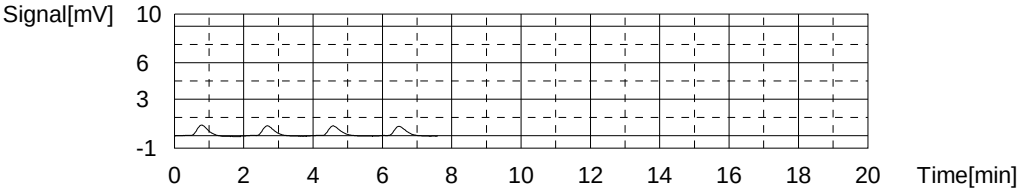
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4898ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.938	0.5045ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:27:54 PM
2	1.870	0.4894ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:30:00 PM
3	1.863	0.4879ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:32:06 PM
4	1.815	0.4773ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:34:12 PM

Mean Area 1.872
Mean Conc. 0.4898ppm



Sample

Sample Name: 280-99597-d-8
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

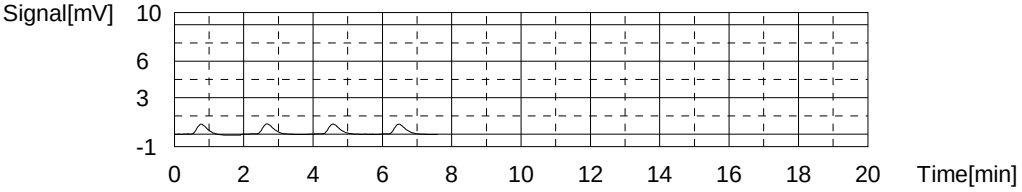
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4774ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.762	0.4655ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:42:29 PM
2	1.840	0.4828ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:44:35 PM
3	1.832	0.4810ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:46:41 PM
4	1.829	0.4804ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:48:47 PM

Mean Area 1.816
Mean Conc. 0.4774ppm



Sample

Sample Name: 280-99527-a-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

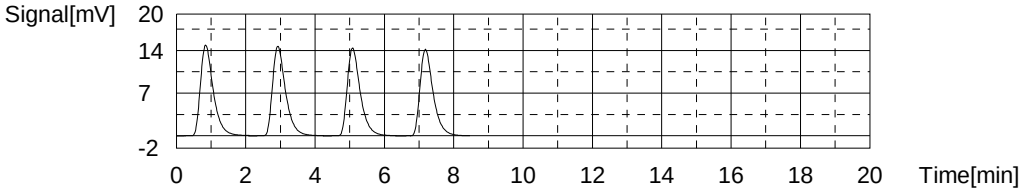
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:8.554ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.58	8.630ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:57:15 PM
2	38.70	8.656ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 10:59:36 PM
3	37.88	8.475ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:01:54 PM
4	37.79	8.455ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:04:14 PM

Mean Area 38.24
Mean Conc. 8.554ppm



Sample

Sample Name: 280-99527-a-5
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

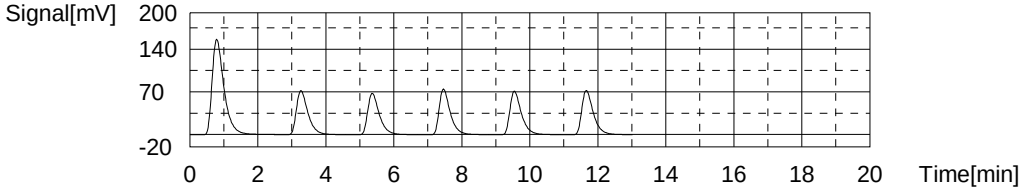
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:82.70ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	383.9	85.20ppm	50uL	1	R	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:13:05 PM
2	172.9	83.42ppm	23uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:15:23 PM
3	162.4	78.36ppm	23uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:17:41 PM
4	170.8	82.41ppm	23uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:19:58 PM
5	169.1	81.59ppm	23uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:22:17 PM
6	172.8	83.38ppm	23uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:24:37 PM

Mean Area 171.4
Mean Conc. 82.70ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

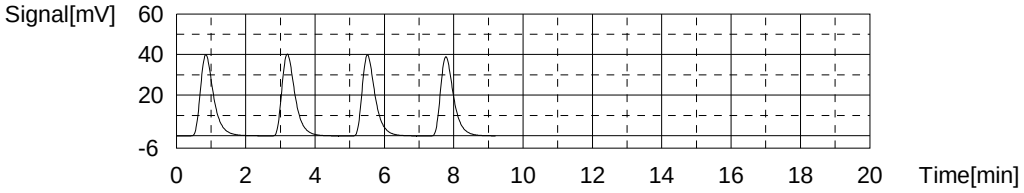
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:23.57ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	106.8	23.76ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:33:15 PM
2	108.1	24.05ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:35:46 PM
3	105.3	23.42ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:38:14 PM
4	103.6	23.05ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:40:42 PM

Mean Area 106.0
Mean Conc. 23.57ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

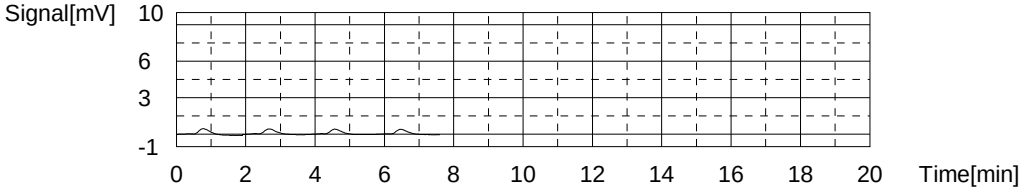
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2758ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9787	0.2918ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:48:58 PM
2	0.9239	0.2797ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:51:04 PM
3	0.8557	0.2645ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:53:10 PM
4	0.8687	0.2674ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/27/2017 11:55:16 PM

Mean Area 0.9068
Mean Conc. 0.2758ppm



Sample

Sample Name: 280-99527-a-6
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

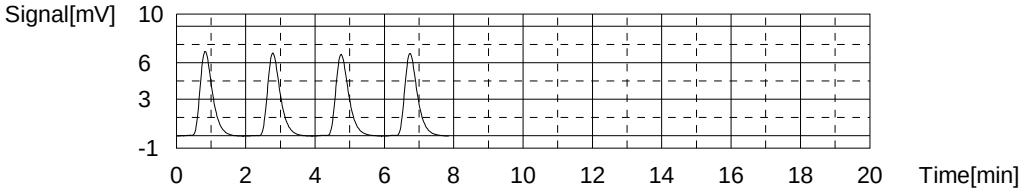
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.917ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.23	3.896ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:03:34 AM
2	17.47	3.949ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:05:44 AM
3	17.45	3.944ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:07:56 AM
4	17.15	3.878ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:10:05 AM

Mean Area 17.33
Mean Conc. 3.917ppm



Sample

Sample Name: 280-99527-a-7
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

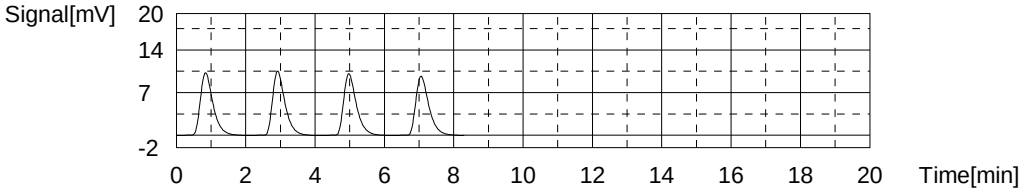
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.863ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	26.25	5.896ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:18:34 AM
2	26.48	5.947ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:20:48 AM
3	26.01	5.842ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:23:05 AM
4	25.67	5.767ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:25:22 AM

Mean Area 26.10
Mean Conc. 5.863ppm



Sample

Sample Name: 280-99503-a-3
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

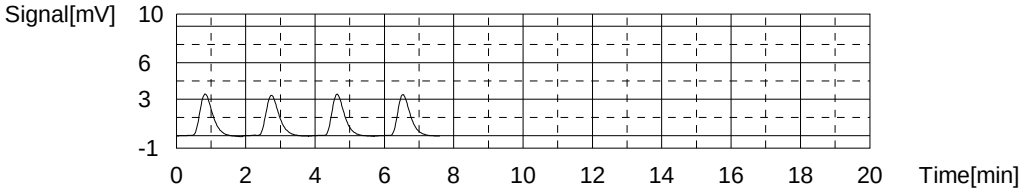
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.990ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.804	2.027ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:33:40 AM
2	8.656	1.994ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:35:45 AM
3	8.586	1.979ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:37:51 AM
4	8.495	1.959ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:39:57 AM

Mean Area 8.635
Mean Conc. 1.990ppm



Sample

Sample Name: 280-99503-a-8
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

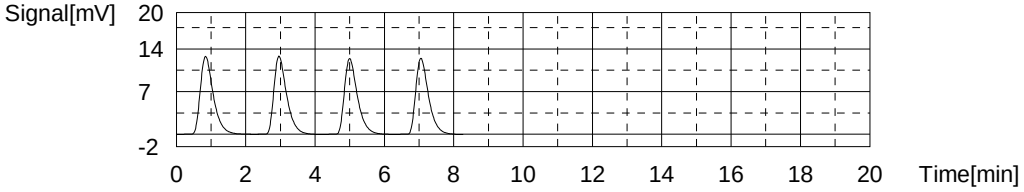
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:7.395ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.67	7.541ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:48:48 AM
2	33.21	7.439ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:51:02 AM
3	32.71	7.328ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:53:17 AM
4	32.46	7.273ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 12:55:32 AM

Mean Area 33.01
Mean Conc. 7.395ppm



Sample

Sample Name: 280-99503-a-15
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

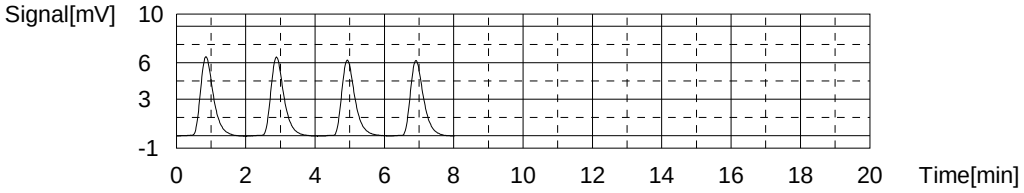
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.776ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.86	3.813ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:03:57 AM
2	17.05	3.856ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:06:12 AM
3	16.45	3.723ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:08:23 AM
4	16.40	3.711ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:10:33 AM

Mean Area 16.69
Mean Conc. 3.776ppm



Sample

Sample Name: LCS
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

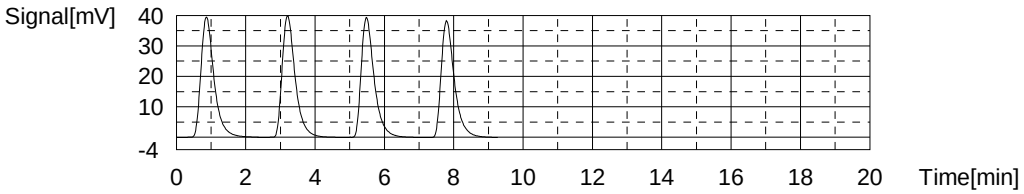
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:23.13ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	104.9	23.34ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:19:17 AM
2	105.5	23.47ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:21:47 AM
3	103.4	23.00ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:24:17 AM
4	102.0	22.69ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:26:48 AM

Mean Area 104.0
Mean Conc. 23.13ppm



Sample

Sample Name: MB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

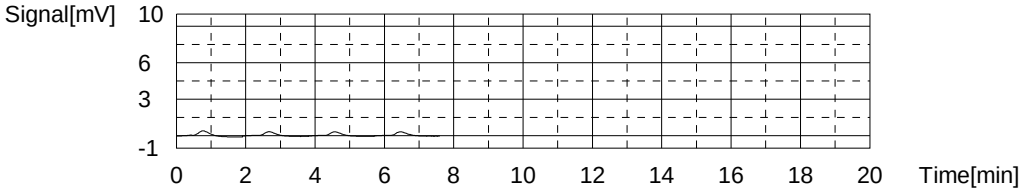
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2274ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8058	0.2535ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:35:05 AM
2	0.6671	0.2227ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:37:11 AM
3	0.6373	0.2161ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:39:17 AM
4	0.6433	0.2174ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:41:23 AM

Mean Area 0.6884
Mean Conc. 0.2274ppm



Sample

Sample Name: TIC
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

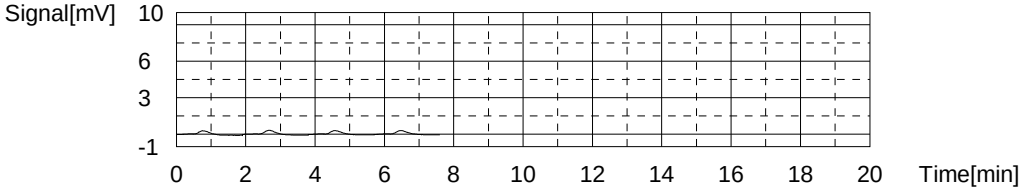
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2160ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5858	0.2047ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:49:40 AM
2	0.6840	0.2265ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:51:56 AM
3	0.6311	0.2147ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:54:02 AM
4	0.6461	0.2181ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 01:56:08 AM

Mean Area 0.6368
Mean Conc. 0.2160ppm



Sample

Sample Name: 280-99503-c-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

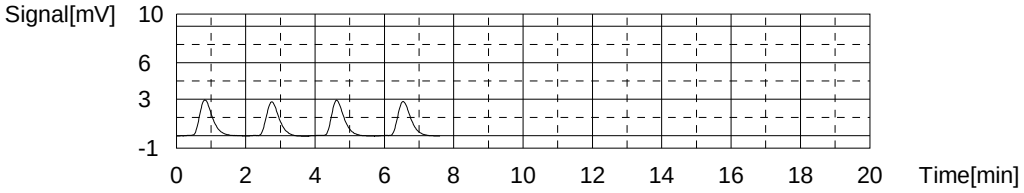
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.684ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.427	1.722ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:04:25 AM
2	7.147	1.660ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:06:31 AM
3	7.204	1.672ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:08:37 AM
4	7.247	1.682ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:10:43 AM

Mean Area 7.256
Mean Conc. 1.684ppm



Sample

Sample Name: MS 280-99503-c-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

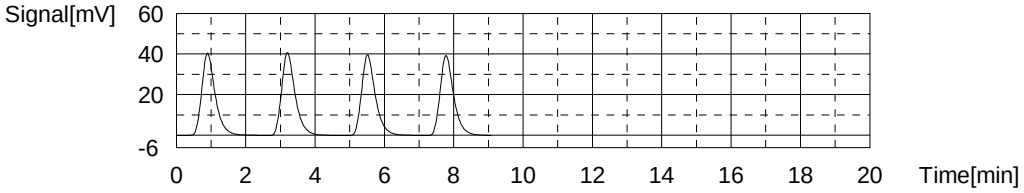
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.46ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	110.0	24.47ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:19:24 AM
2	111.7	24.84ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:21:55 AM
3	110.1	24.49ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:24:22 AM
4	108.0	24.02ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:26:47 AM

Mean Area 110.0
Mean Conc. 24.46ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

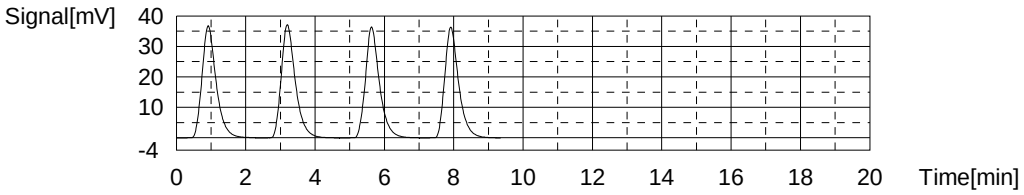
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:23.15ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	104.7	23.29ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:35:27 AM
2	105.9	23.56ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:38:04 AM
3	103.2	22.96ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:40:35 AM
4	102.4	22.78ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:43:07 AM

Mean Area 104.1
Mean Conc. 23.15ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

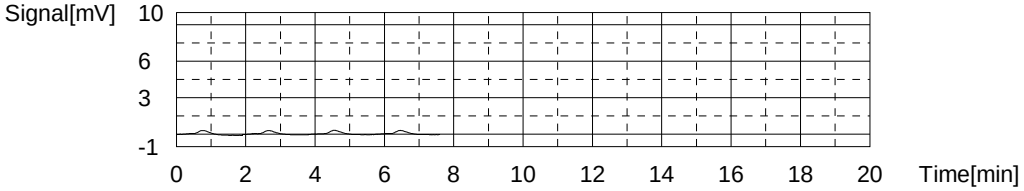
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2122ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6257	0.2135ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:51:24 AM
2	0.6134	0.2108ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:53:30 AM
3	0.6462	0.2181ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:55:36 AM
4	0.5940	0.2065ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 02:57:42 AM

Mean Area 0.6198
Mean Conc. 0.2122ppm



Sample

Sample Name: MSD 280-99503-c-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

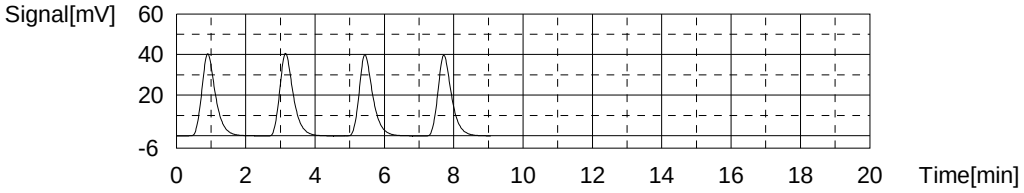
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.63ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	111.9	24.89ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:06:21 AM
2	111.7	24.84ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:08:50 AM
3	109.8	24.42ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:11:18 AM
4	109.6	24.38ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:13:46 AM

Mean Area 110.8
Mean Conc. 24.63ppm



Sample

Sample Name: 280-99503-a-17
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

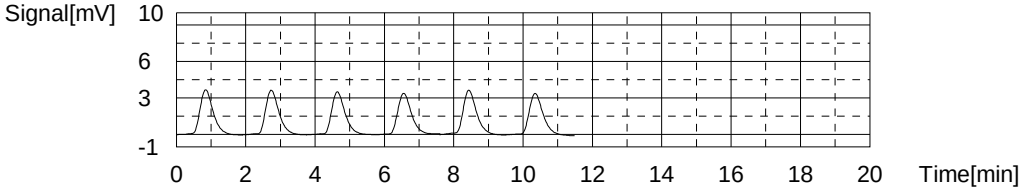
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.129ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.799	2.248ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:22:03 AM
2	9.530	2.188ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:24:09 AM
3	9.240	2.124ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:26:15 AM
4	9.000	2.071ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:28:21 AM
5	10.00	2.292ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:30:27 AM
6	9.284	2.133ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:32:38 AM

Mean Area 9.264
Mean Conc. 2.129ppm



Sample

Sample Name: 280-99503-a-22
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

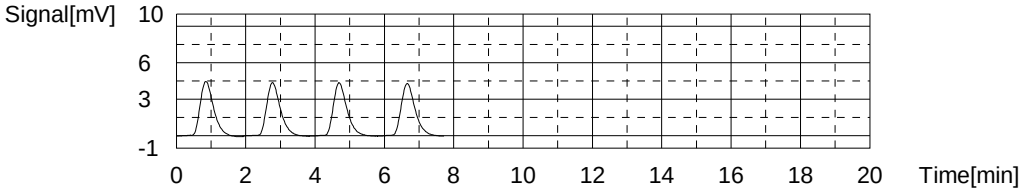
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.723ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.17	2.773ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:40:51 AM
2	11.91	2.716ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:42:58 AM
3	11.82	2.696ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:45:07 AM
4	11.87	2.707ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:47:15 AM

Mean Area 11.94
Mean Conc. 2.723ppm



Sample

Sample Name: 280-99503-a-24
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

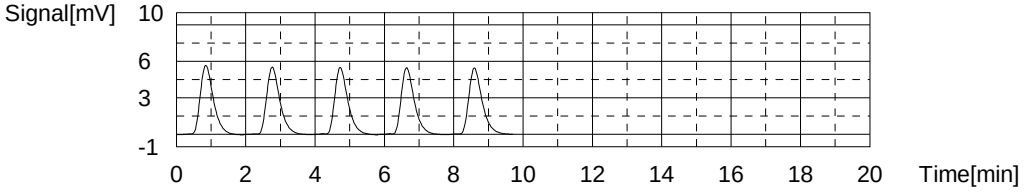
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.280ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.97	3.394ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:55:33 AM
2	14.63	3.319ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:57:43 AM
3	14.34	3.255ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 03:59:50 AM
4	14.23	3.230ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:01:58 AM
5	14.61	3.315ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:04:08 AM

Mean Area 14.45
Mean Conc. 3.280ppm



Sample

Sample Name: 280-99503-a-26
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

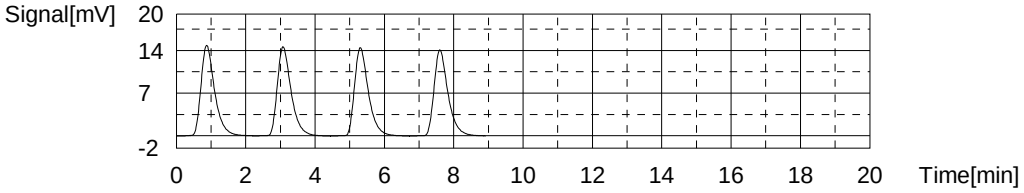
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:9.051ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	41.08	9.184ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:12:42 AM
2	40.77	9.115ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:15:08 AM
3	40.56	9.069ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:17:37 AM
4	39.50	8.834ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:20:01 AM

Mean Area 40.48
Mean Conc. 9.051ppm



Sample

Sample Name: 280-99503-a-27
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

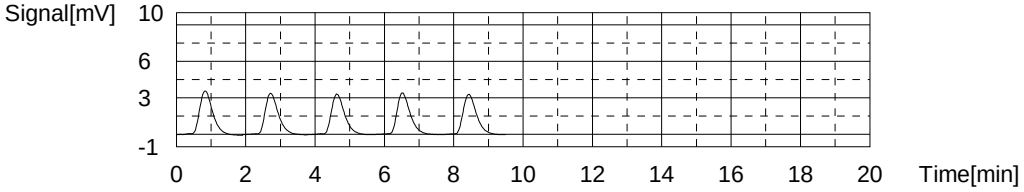
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.001ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.189	2.112ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:28:18 AM
2	8.715	2.007ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:30:24 AM
3	8.589	1.979ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:32:30 AM
4	8.739	2.013ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:34:42 AM
5	8.696	2.003ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:36:48 AM

Mean Area 8.685
Mean Conc. 2.001ppm



Sample

Sample Name: 280-99503-a-28
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

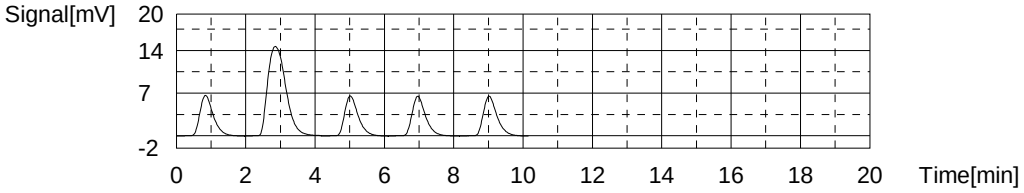
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.013ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.94	4.053ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:45:07 AM
2	53.47	11.93ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:47:33 AM
3	17.74	4.009ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:49:40 AM
4	17.50	3.955ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:51:56 AM
5	17.86	4.035ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 04:54:07 AM

Mean Area 17.76
Mean Conc. 4.013ppm



Sample

Sample Name: 280-99503-a-29
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

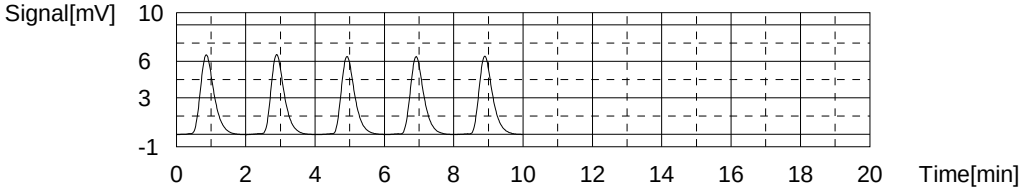
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.915ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.13	4.095ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:02:31 AM
2	17.40	3.933ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:04:45 AM
3	17.21	3.891ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:06:55 AM
4	17.28	3.907ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:09:07 AM
5	17.38	3.929ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:11:16 AM

Mean Area 17.32
Mean Conc. 3.915ppm



Sample

Sample Name: 280-99503-a-30
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

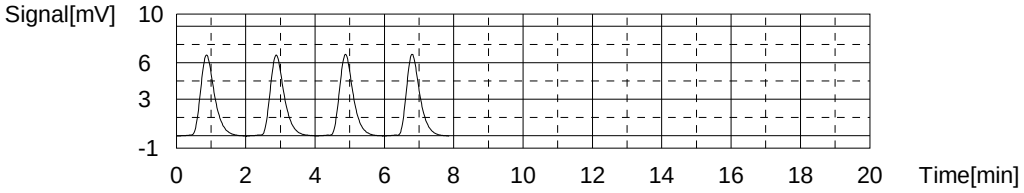
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.134ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.50	4.177ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:19:39 AM
2	18.58	4.195ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:21:50 AM
3	18.21	4.113ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:23:59 AM
4	17.94	4.053ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:26:06 AM

Mean Area 18.31
Mean Conc. 4.134ppm



Sample

Sample Name: 280-99503-a-31
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

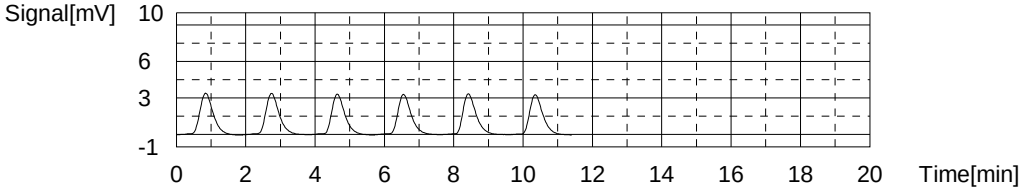
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.957ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.208	2.117ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:34:23 AM
2	9.001	2.071ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:36:29 AM
3	8.493	1.958ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:38:35 AM
4	8.420	1.942ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:40:41 AM
5	8.513	1.963ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:42:47 AM
6	8.519	1.964ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:44:53 AM

Mean Area 8.486
Mean Conc. 1.957ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

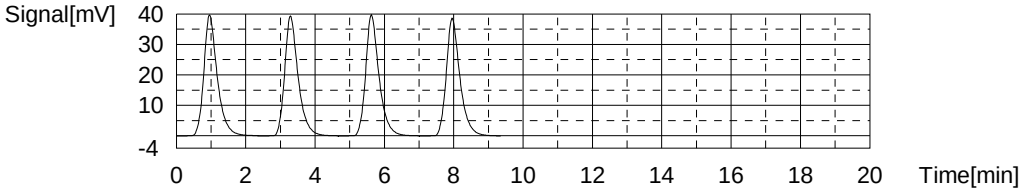
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:23.90ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	107.9	24.00ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:53:32 AM
2	107.1	23.82ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:56:03 AM
3	107.7	23.96ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 05:58:35 AM
4	107.1	23.82ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:01:08 AM

Mean Area 107.5
Mean Conc. 23.90ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

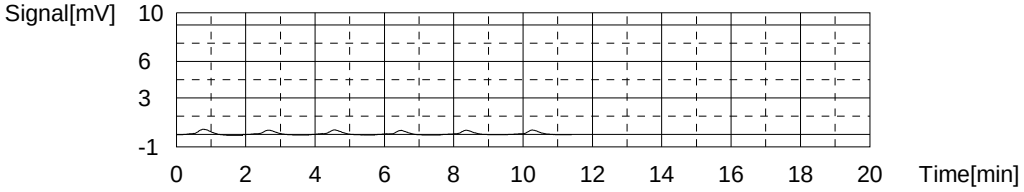
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2289ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.290	0.3608ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:09:25 AM
2	1.046	0.3067ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:11:31 AM
3	0.7288	0.2364ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:13:37 AM
4	0.6606	0.2213ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:15:43 AM
5	0.6519	0.2193ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:17:49 AM
6	0.7383	0.2385ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:19:55 AM

Mean Area 0.6949
Mean Conc. 0.2289ppm



Sample

Sample Name: 280-99503-a-32
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

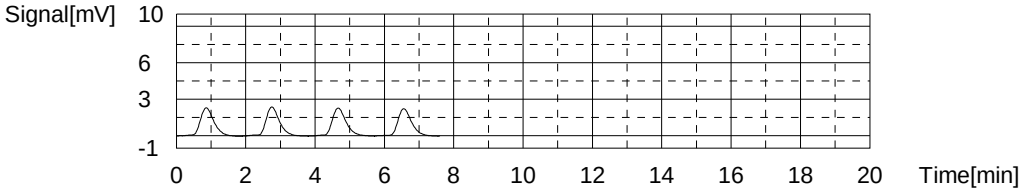
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.414ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.005	1.406ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:28:07 AM
2	6.141	1.437ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:30:13 AM
3	6.116	1.431ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:32:19 AM
4	5.897	1.382ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:34:25 AM

Mean Area 6.040
Mean Conc. 1.414ppm



Sample

Sample Name: 280-99503-a-33
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

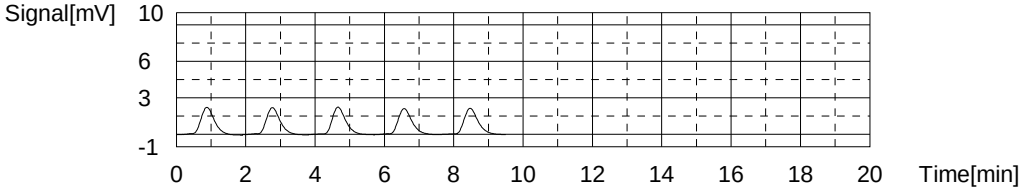
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.381ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.939	1.392ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:42:42 AM
2	5.898	1.383ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:44:48 AM
3	5.890	1.381ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:46:54 AM
4	5.663	1.331ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:49:00 AM
5	5.835	1.369ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:51:06 AM

Mean Area 5.891
Mean Conc. 1.381ppm



Sample

Sample Name: MS 280-99503-a-33
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

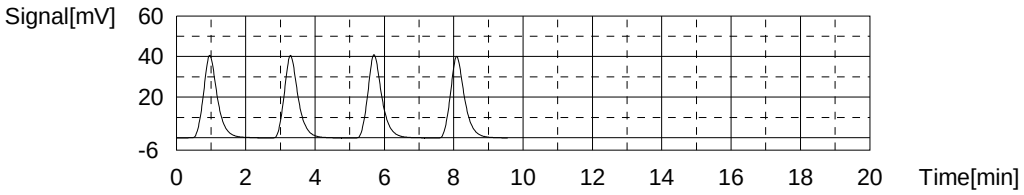
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:25.45ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	113.6	25.27ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 06:59:50 AM
2	113.3	25.20ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:02:26 AM
3	116.3	25.86ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:05:01 AM
4	114.5	25.47ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:07:38 AM

Mean Area 114.4
Mean Conc. 25.45ppm



Sample

Sample Name: MSD 280-99503-a-33
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

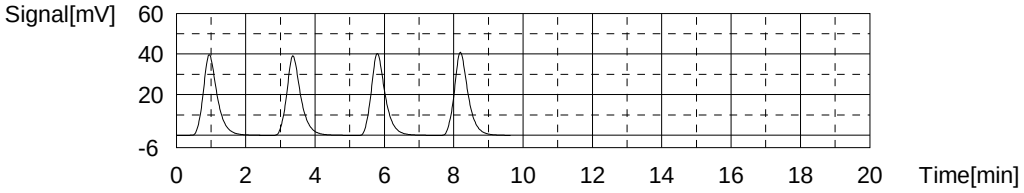
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:25.20ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	111.8	24.87ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:16:26 AM
2	111.6	24.82ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:19:05 AM
3	114.7	25.51ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:21:39 AM
4	115.2	25.62ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:24:16 AM

Mean Area 113.3
Mean Conc. 25.20ppm



Sample

Sample Name: 280-99503-a-34
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

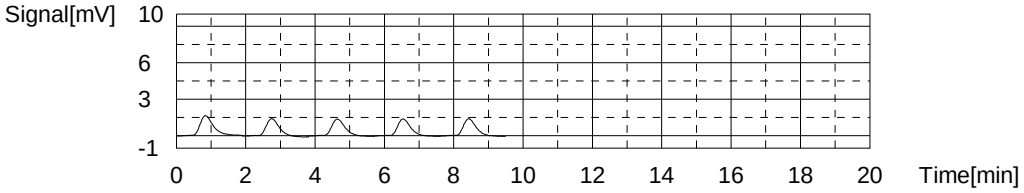
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.8594ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.210	1.008ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:32:34 AM
2	3.656	0.8855ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:34:40 AM
3	3.502	0.8513ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:36:46 AM
4	3.496	0.8500ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:38:52 AM
5	3.499	0.8507ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:40:58 AM

Mean Area 3.538
Mean Conc. 0.8594ppm



Sample

Sample Name: 280-99503-a-35
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

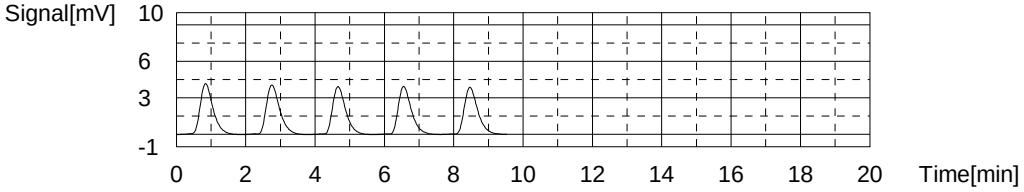
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.373ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.64	2.434ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:49:16 AM
2	10.86	2.483ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:51:22 AM
3	10.23	2.343ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:53:28 AM
4	10.27	2.352ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:55:34 AM
5	10.31	2.361ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 07:57:41 AM

Mean Area 10.36
Mean Conc. 2.373ppm



Sample

Sample Name: 280-99503-a-36
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

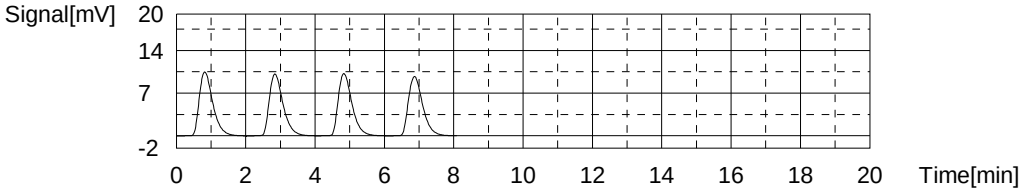
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:6.361ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	28.81	6.463ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:06:05 AM
2	28.16	6.319ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:08:16 AM
3	28.31	6.352ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:10:29 AM
4	28.11	6.308ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:12:45 AM

Mean Area 28.35
Mean Conc. 6.361ppm



Sample

Sample Name: 280-99503-a-39
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

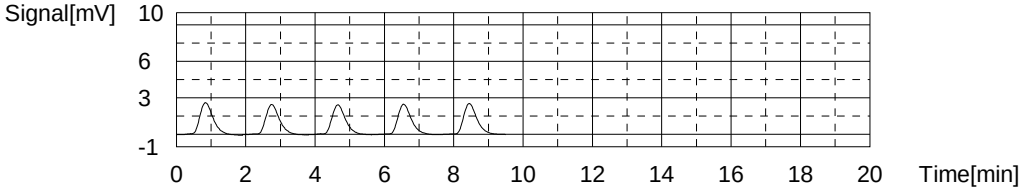
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.529ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.975	1.621ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:21:03 AM
2	6.571	1.532ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:23:09 AM
3	6.457	1.507ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:25:15 AM
4	6.562	1.530ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:27:21 AM
5	6.641	1.547ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:29:27 AM

Mean Area 6.558
Mean Conc. 1.529ppm



Sample

Sample Name: 280-99503-a-40
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

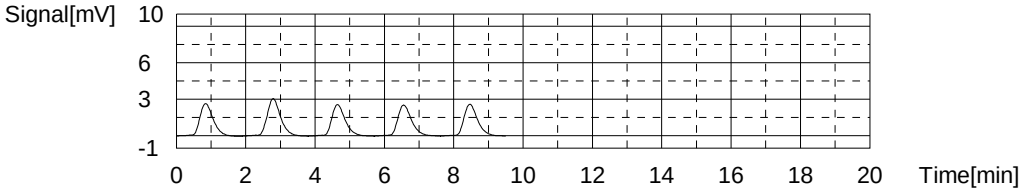
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.591ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.988	1.624ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:37:44 AM
2	8.076	1.866ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:39:50 AM
3	6.744	1.570ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:41:56 AM
4	6.749	1.571ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:44:02 AM
5	6.862	1.596ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:46:08 AM

Mean Area 6.836
Mean Conc. 1.591ppm



Sample

Sample Name: 280-99503-a-41
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

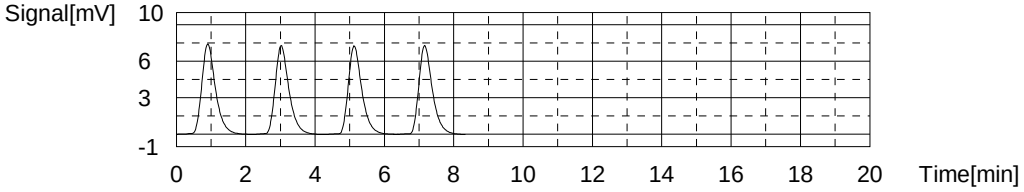
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.506ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.39	4.596ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:54:38 AM
2	20.09	4.530ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:56:57 AM
3	19.67	4.437ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 08:59:11 AM
4	19.78	4.461ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:01:27 AM

Mean Area 19.98
Mean Conc. 4.506ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

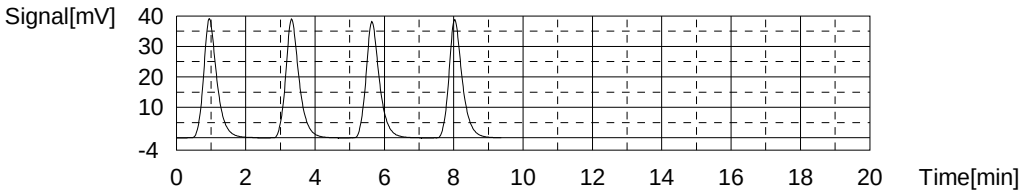
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:23.34ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	104.8	23.31ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:10:12 AM
2	106.0	23.58ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:12:44 AM
3	104.0	23.14ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:15:19 AM
4	104.9	23.34ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:17:49 AM

Mean Area 104.9
Mean Conc. 23.34ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

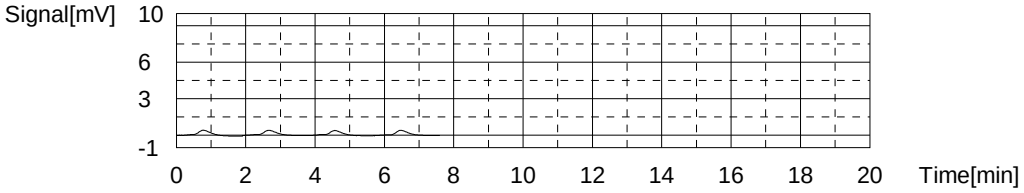
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2615ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8554	0.2645ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:26:07 AM
2	0.8354	0.2600ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:28:13 AM
3	0.7917	0.2503ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:30:19 AM
4	0.8857	0.2712ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:32:25 AM

Mean Area 0.8420
Mean Conc. 0.2615ppm



Sample

Sample Name: 280-99503-a-42
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

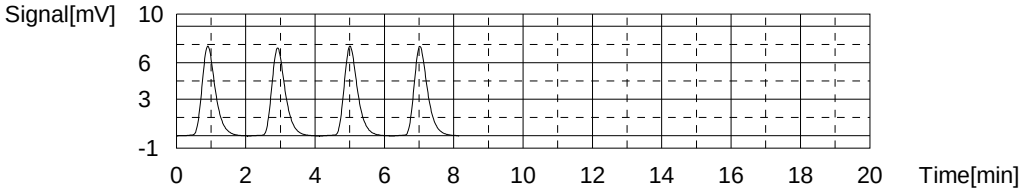
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.442ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.79	4.463ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:40:51 AM
2	19.48	4.394ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:43:08 AM
3	19.70	4.443ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:45:21 AM
4	19.80	4.465ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:47:34 AM

Mean Area 19.69
Mean Conc. 4.442ppm



Sample

Sample Name: 280-99527-a-8
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

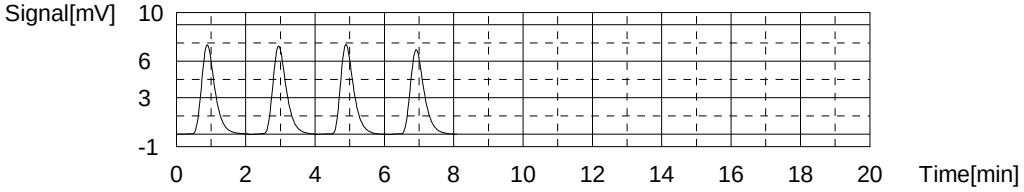
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.394ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.62	4.425ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:56:02 AM
2	19.65	4.432ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 09:58:12 AM
3	19.47	4.392ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 10:00:24 AM
4	19.18	4.328ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 10:02:39 AM

Mean Area 19.48
Mean Conc. 4.394ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

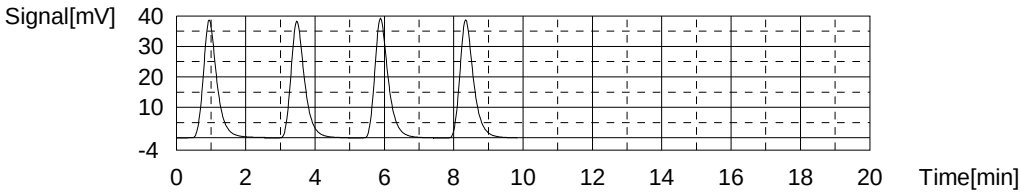
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:23.67ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.4	23.45ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 10:11:36 AM
2	105.6	23.49ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 10:14:13 AM
3	107.5	23.91ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 10:16:52 AM
4	107.1	23.82ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 10:19:29 AM

Mean Area 106.4
Mean Conc. 23.67ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

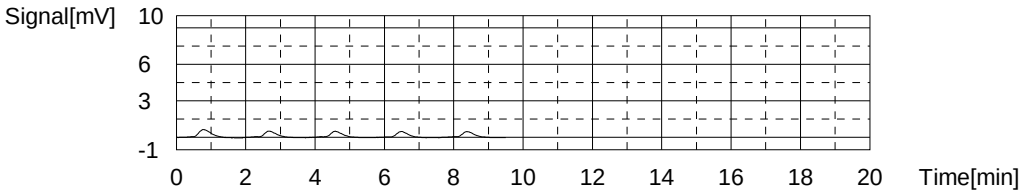
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3045ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.478	0.4025ppm	50uL	1	E	1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 10:27:47 AM
2	1.113	0.3216ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 10:29:53 AM
3	1.048	0.3072ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 10:31:59 AM
4	1.007	0.2981ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 10:34:05 AM
5	0.9757	0.2911ppm	50uL	1		1-50 PPM TOC.2017_07_27_15_21_17.cal	07/28/2017 10:36:11 AM

Mean Area 1.036
Mean Conc. 0.3045ppm



TOC-V Cal Curve Information
1-50 PPM TOC.2017_07_27_15_21_17.cal

Date of Creation	11:15:53 AM 10/28/2005
User	DEANN
System	TOC-VCSH

Cal. Curve

Sample Name:	cal
Sample ID:	CAL
Cal. Curve:	1-50 PPM TOC.2017_07_27_15_21_17.cal
Status	Completed
Comment:	

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.4395	50uL	1	*******		07/27/2017 03:29:31 F
2	0.3155	50uL	1	*******		07/27/2017 03:31:37 F

Acid Add.	1.500%
Sp. Time	90.00sec
Mean Area	0.3775
SD Area	0.08768
CV Area	23.23%
Vial	69

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.735	50uL	1	*******		07/27/2017 03:39:57 F
2	4.762	50uL	1	*******		07/27/2017 03:42:03 F

Acid Add.	1.500%
Sp. Time	90.00sec
Mean Area	4.748
SD Area	0.01909
CV Area	0.40%
Vial	70

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	22.23	50uL	1	*******		07/27/2017 03:50:33 F
2	22.15	50uL	1	*******		07/27/2017 03:52:45 F

Acid Add.	1.500%
Sp. Time	90.00sec
Mean Area	22.19
SD Area	0.05657
CV Area	0.25%
Vial	71

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	44.11	50uL	1	*******		07/27/2017 04:01:26 P
2	44.26	50uL	1	*******		07/27/2017 04:03:50 P

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 44.19
SD Area 0.1061
CV Area 0.24%
Vial 72

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	110.1	50uL	1	*******		07/27/2017 04:12:36 P
2	111.5	50uL	1	*******		07/27/2017 04:15:07 P

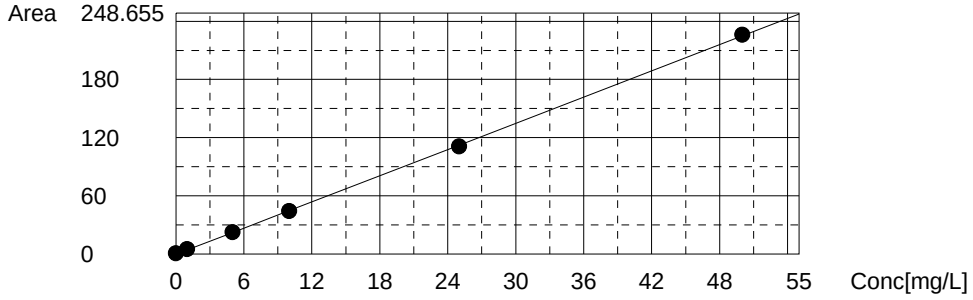
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 110.8
SD Area 0.9899
CV Area 0.89%
Vial 73

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	224.5	50uL	1	*******		07/27/2017 04:24:04 P
2	227.6	50uL	1	*******		07/27/2017 04:26:43 P

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 226.1
SD Area 2.192
CV Area 0.97%
Vial 74

Slope: 4.510
Intercept -0.3372
r^2 0.9999
r 0.9999
Zero Shift No



pH of 7/28/17

	Analysis	Sample Name	Manual Diluti	~~Result~~	Notes	Date / Time	Vial
1*	NPOC	ICV	1.000	"			1
2*	NPOC	ICB	1.000	"			2
3*	NPOC	LCS	1.000	"			3
4*	NPOC	LCSD	1.000	"			4
5*	NPOC	MB	1.000	"			5
6*	NPOC	TIC	1.000	"			6
7*	NPOC	280-99576-c-5	1.000	"			7
8*	NPOC	MS 280-99576-c-5	1.000	"			8
9*	NPOC	MSD 280-99576-c-5	1.000	"			9
10*	NPOC	280-99527-a-9	1.000	"			10
11*	NPOC	280-99532-e-1	1.000	"			11
12*	NPOC	280-99532-e-2	1.000	"			12
13*	NPOC	280-99532-e-3	1.000	"			13
14*	NPOC	280-99532-e-4	1.000	"			14
15*	NPOC	280-99532-d-5	1.000	"			15
16*	NPOC	CCV	1.000	"			16
17*	NPOC	CCB	1.000	"			17
18*	NPOC	280-99532-e-6	1.000	"			18
19*	NPOC	280-99503-a-37	1.000	"			19
20*	NPOC	280-99568-c-1	1.000	"			20
21*	NPOC	280-99568-c-2	1.000	"			21
22*	NPOC	280-99568-c-3	1.000	"			22
23*	NPOC	280-99568-c-4	1.000	"			23
24*	NPOC	280-99568-c-5	1.000	"			24
25*	NPOC	280-99568-c-6	1.000	"			25
26*	NPOC	280-99569-c-1	1.000	"			26
27*	NPOC	280-99569-c-2	1.000	"			27
28*	NPOC	CCV	1.000	"			28
29*	NPOC	CCB	1.000	"			29
30*	NPOC	280-99569-c-3	1.000	"			30
31*	NPOC	280-99569-c-4	1.000	"			31
32*	NPOC	280-99576-a-1	1.000	"			32
33*	NPOC	MS 280-99576-a-1	1.000	"			33
34*	NPOC	MSD 280-99576-a-1	1.000	"			34
35*	NPOC	LCS	1.000	"			35
36*	NPOC	LCSD	1.000	"			36
37*	NPOC	MB	1.000	"			37
38*	NPOC	TIC	1.000	"			38
39*	NPOC	280-99576-a-2	5X ~~1.000~~	"	>3000		39
40*	NPOC	CCV	1.000	"			40
41*	NPOC	CCB	1.000	"			41
42*	NPOC	280-99576-a-4	1.000	"			42
43*	NPOC	280-99576-a-6	5X ~~1.000~~	"	>3000		43
44*	NPOC	280-99576-c-7	1.000	"			44
45*	NPOC	MS 280-99576-c-7	1.000	"			45
46*	NPOC	MSD 280-99576-c-7	1.000	"			46
47*	NPOC	280-99576-a-8	1.000	"			47
48*	NPOC	280-99576-a-9	1.000	"			48
49*	NPOC	280-99576-a-10	1.000	"			49
50*	NPOC	280-99576-a-16	1.000	"			50
51*	NPOC	280-99576-a-17	1.000	"			51

pH 7/28/17

	Analysis	Sample Name	Manual Diluti	~~Result~~	Notes	Date / Time	Vial
52*	NPOC	CCV	1.000	"			52
53*	NPOC	CCB	1.000	"			53
54*	NPOC	280-99576-a-18	1.000	"			54
55*	NPOC	280-99576-a-19	1.000	"			55
56*	NPOC	280-99576-a-21	1.000	"			56
57*	NPOC	280-99576-a-22	1.000	"			57
58*	NPOC	280-99576-a-23	~~1.000~~ 2x	"	>1000		58
59*	NPOC	280-99571-d-1	1.000	"			59
60*	NPOC	280-99571-d-2	1.000	"			60
61*	NPOC	280-99574-b-3	1.000	"			61
62*	NPOC	MS 280-99574-b-3	1.000	"			62
63*	NPOC	MSD 280-99574-b-3	1.000	"			63
64*	NPOC	CCV	1.000	"			64
65*	NPOC	CCB	1.000	"			65
66*	NPOC	280-99574-a-4	1.000	"			66
67*	NPOC	280-99574-a-7	1.000	"			67
68*	NPOC	280-99574-a-8	1.000	"			68
69*	NPOC	CCV	1.000	"			69
70*	NPOC	CCB	1.000	"			70

	Analysis	Sample Name	Manual Diluti	Result	Notes	Date / Time	Vial
1	NPOC	ICV	1.000	NPOC:20.99mg/L		7/28/2017 1:46:53	1
2	NPOC	ICB	1.000	NPOC:0.03461mg/		7/28/2017 2:01:37	2
3	NPOC	LCS	1.000	NPOC:25.19mg/L		7/28/2017 2:18:35	3
4	NPOC	LCSD	1.000	NPOC:25.46mg/L		7/28/2017 2:35:38	4
5	NPOC	MB	1.000	NPOC:0.05075mg/		7/28/2017 2:50:20	5
6	NPOC	TIC	1.000	NPOC:0.09651mg/		7/28/2017 3:05:04	6
7	NPOC	280-99576-c-5	1.000	NPOC:3.015mg/L		7/28/2017 3:19:47	7
8	NPOC	MS 280-99576-c-5	1.000	NPOC:28.62mg/L		7/28/2017 3:34:32	8
9	NPOC	MSD 280-99576-c-5	1.000	NPOC:28.46mg/L		7/28/2017 3:49:15	9
10	NPOC	280-99527-a-9	1.000	NPOC:5.355mg/L		7/28/2017 4:03:59	10
11	NPOC	280-99532-e-1	1.000	NPOC:7.328mg/L		7/28/2017 4:20:47	11
12	NPOC	280-99532-e-2	1.000	NPOC:17.66mg/L		7/28/2017 4:35:29	12
13	NPOC	280-99532-e-3	1.000	NPOC:5.884mg/L		7/28/2017 4:50:13	13
14	NPOC	280-99532-e-4	1.000	NPOC:6.581mg/L		7/28/2017 5:07:00	14
15	NPOC	280-99532-d-5	1.000	NPOC:7.420mg/L		7/28/2017 5:21:42	15
16	NPOC	CCV	1.000	NPOC:24.89mg/L		7/28/2017 5:36:30	16
17	NPOC	CCB	1.000	NPOC:0.05909mg/		7/28/2017 5:53:18	17
18	NPOC	280-99532-e-6	1.000	NPOC:7.306mg/L		7/28/2017 6:10:04	18
19	NPOC	280-99503-a-37	1.000	NPOC:2.435mg/L		7/28/2017 6:24:46	19
20	NPOC	280-99568-c-1	1.000	NPOC:0.6805mg/L		7/28/2017 6:39:30	20
21	NPOC	280-99568-c-2	1.000	NPOC:0.9982mg/L		7/28/2017 6:56:17	21
22	NPOC	280-99568-c-3	1.000	NPOC:1.181mg/L		7/28/2017 7:13:03	22
23	NPOC	280-99568-c-4	1.000	NPOC:0.6025mg/L		7/28/2017 7:27:45	23
24	NPOC	280-99568-c-5	1.000	NPOC:0.5172mg/L		7/28/2017 7:44:33	24
25	NPOC	280-99568-c-6	1.000	NPOC:0.5655mg/L		7/28/2017 7:59:15	25
26	NPOC	280-99569-c-1	1.000	NPOC:28.58mg/L		7/28/2017 8:16:03	26
27	NPOC	280-99569-c-2	1.000	NPOC:81.88mg/L		7/28/2017 8:34:54	27
28	NPOC	CCV	1.000	NPOC:24.80mg/L		7/28/2017 8:49:34	28
29	NPOC	CCB	1.000	NPOC:0.06212mg/		7/28/2017 9:06:22	29
30	NPOC	280-99569-c-3	1.000	NPOC:51.16mg/L		7/28/2017 9:23:08	30
31	NPOC	280-99569-c-4	1.000	NPOC:8.908mg/L		7/28/2017 9:39:55	31
32	NPOC	280-99576-a-1	1.000	NPOC:2.618mg/L		7/28/2017 9:57:01	32
33	NPOC	MS 280-99576-a-1	1.000	NPOC:27.18mg/L		7/28/2017 10:14:04	33
34	NPOC	MSD 280-99576-a-1	1.000	NPOC:27.68mg/L		7/28/2017 10:28:56	34
35	NPOC	LCS	1.000	NPOC:24.67mg/L		7/28/2017 10:43:45	35
36	NPOC	LCSD	1.000	NPOC:24.82mg/L		7/28/2017 10:58:29	36
37	NPOC	MB	1.000	NPOC:0.06653mg/		7/28/2017 11:13:13	37
38	NPOC	TIC	1.000	NPOC:0.07465mg/		7/28/2017 11:27:57	38
39	NPOC	280-99576-a-2	5.000	NPOC:2.901mg/L		7/28/2017 11:46:49	39
40	NPOC	CCV	1.000	NPOC:24.57mg/L		7/29/2017 12:01:34	40
41	NPOC	CCB	1.000	NPOC:0.05735mg/		7/29/2017 12:16:18	41
42	NPOC	280-99576-a-4	1.000	NPOC:15.94mg/L		7/29/2017 12:31:05	42
43	NPOC	280-99576-a-6	5.000	NPOC:2.578mg/L		7/29/2017 12:45:49	43
44	NPOC	280-99576-c-7	1.000	NPOC:1.980mg/L		7/29/2017 1:00:33	44
45	NPOC	MS 280-99576-c-7	1.000	NPOC:26.52mg/L		7/29/2017 1:15:22	45
46	NPOC	MSD 280-99576-c-7	1.000	NPOC:26.89mg/L		7/29/2017 1:30:29	46
47	NPOC	280-99576-a-8	1.000	NPOC:2.334mg/L		7/29/2017 1:45:13	47
48	NPOC	280-99576-a-9	1.000	NPOC:2.302mg/L		7/29/2017 2:02:01	48
49	NPOC	280-99576-a-10	1.000	NPOC:10.52mg/L		7/29/2017 2:18:48	49
50	NPOC	280-99576-a-16	1.000	NPOC:3.333mg/L		7/29/2017 2:35:35	50
51	NPOC	280-99576-a-17	1.000	NPOC:6.726mg/L		7/29/2017 2:50:18	51
52	NPOC	CCV	1.000	NPOC:25.16mg/L		7/29/2017 3:05:03	52
53	NPOC	CCB	1.000	NPOC:0.05844mg/		7/29/2017 3:19:47	53

	Analysis	Sample Name	Manual Diluti	Result	Notes	Date / Time	Vial
54	NPOC	280-99576-a-18	1.000	NPOC:3.494mg/L		7/29/2017 3:36:35	54
55	NPOC	280-99576-a-19	1.000	NPOC:3.828mg/L		7/29/2017 3:53:22	55
56	NPOC	280-99576-a-21	1.000	NPOC:1.342mg/L		7/29/2017 4:08:06	56
57	NPOC	280-99576-a-22	1.000	NPOC:1.884mg/L		7/29/2017 4:24:55	57
58	NPOC	280-99576-a-23	2.000	NPOC:2.916mg/L		7/29/2017 4:39:39	58
59	NPOC	280-99571-d-1	1.000	NPOC:4.554mg/L		7/29/2017 4:54:24	59
60	NPOC	280-99571-d-2	1.000	NPOC:0.1987mg/L		7/29/2017 5:09:09	60
61	NPOC	280-99574-b-3	1.000	NPOC:139.3mg/L		7/29/2017 5:25:58	61
62	NPOC	MS 280-99574-b-3	1.000	NPOC:161.0mg/L		7/29/2017 5:49:17	62
63	NPOC	MSD 280-99574-b-3	1.000	NPOC:158.8mg/L		7/29/2017 6:05:59	63
64	NPOC	CCV	1.000	NPOC:25.01mg/L		7/29/2017 6:20:43	64
65	NPOC	CCB	1.000	NPOC:0.07109mg/		7/29/2017 6:35:28	65
66	NPOC	280-99574-a-4	1.000	NPOC:145.2mg/L		7/29/2017 6:52:17	66
67	NPOC	280-99574-a-7	1.000	NPOC:0.1735mg/L		7/29/2017 7:09:05	67
68	NPOC	280-99574-a-8	1.000	NPOC:0.1988mg/L		7/29/2017 7:23:49	68
69	NPOC	CCV	1.000	NPOC:25.06mg/L		7/29/2017 7:38:34	69
70	NPOC	CCB	1.000	NPOC:0.06400mg/		7/29/2017 7:53:19	70

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	

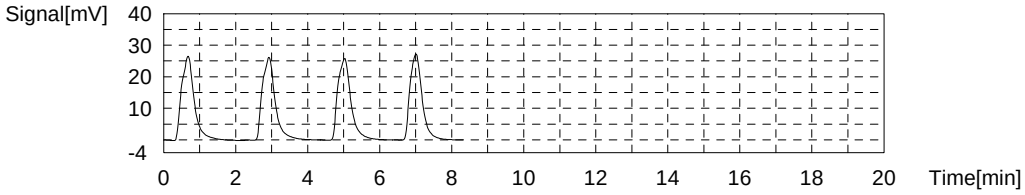
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.99mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	66.37	21.20mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 1:40:19 PM
2	65.97	21.07mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 1:42:35 PM
3	66.06	21.10mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 1:44:45 PM
4	64.51	20.60mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 1:46:53 PM

Mean Area 65.73
Mean Conc. 20.99mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

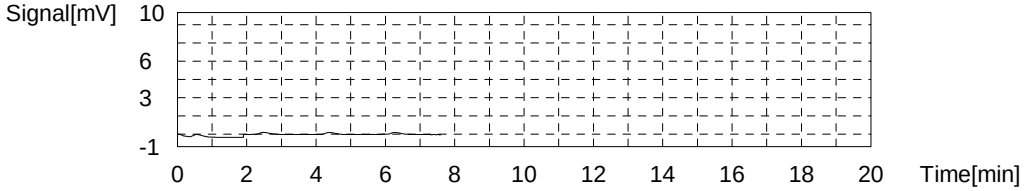
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03461mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3079	0.03373mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 1:55:25 PM
2	0.3356	0.04260mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 1:57:29 PM
3	0.3188	0.03722mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 1:59:33 PM
4	0.2804	0.02492mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:01:37 PM

Mean Area 0.3107
Mean Conc. 0.03461mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

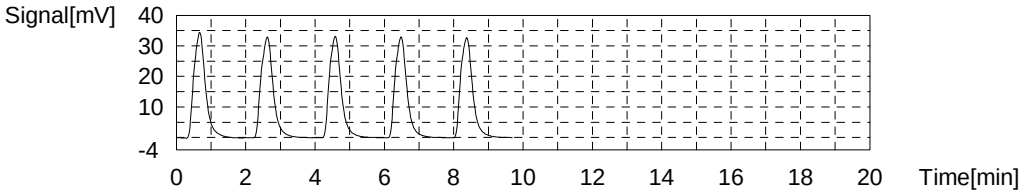
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.19mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	81.78	26.13mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:10:11 PM
2	80.34	25.67mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:12:20 PM
3	78.57	25.10mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:14:24 PM
4	78.03	24.93mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:16:27 PM
5	78.43	25.06mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:18:35 PM

Mean Area 78.84
Mean Conc. 25.19mg/L



Sample

Sample Name: LCSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

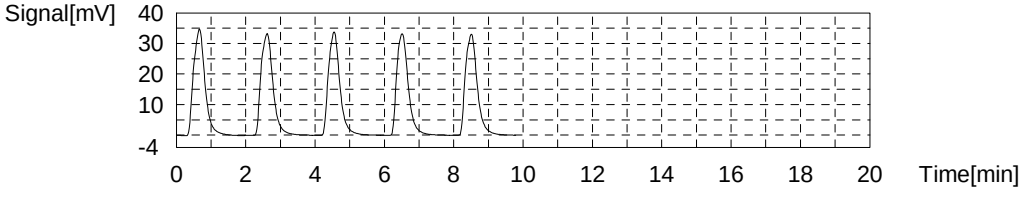
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.46mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	81.20	25.95mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:27:10 PM
2	80.14	25.61mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:29:16 PM
3	78.28	25.01mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:31:25 PM
4	77.06	24.62mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:33:34 PM
5	79.08	25.27mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:35:38 PM

Mean Area 79.67
Mean Conc. 25.46mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

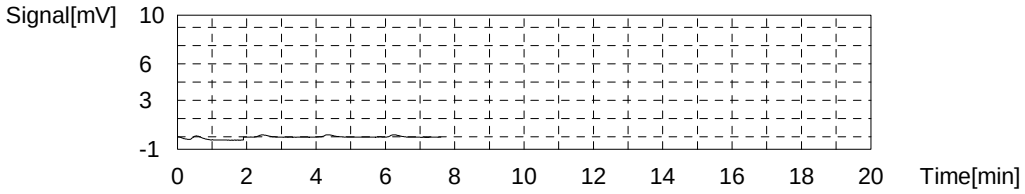
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05075mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4895	0.09190mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:44:09 PM
2	0.3485	0.04673mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:46:13 PM
3	0.2954	0.02972mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:48:17 PM
4	0.3108	0.03465mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:50:20 PM

Mean Area 0.3610
Mean Conc. 0.05075mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

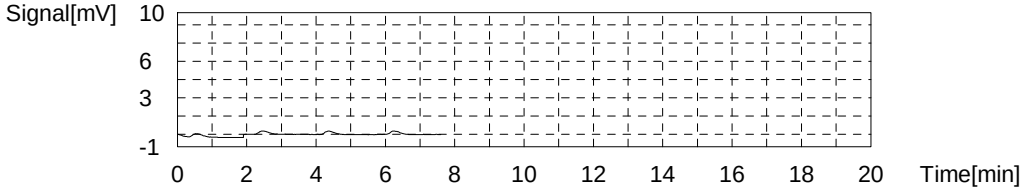
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.09651mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4661	0.08440mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 2:58:53 PM
2	0.4949	0.09363mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:00:57 PM
3	0.5560	0.1132mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:03:01 PM
4	0.4985	0.09478mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:05:04 PM

Mean Area 0.5039
Mean Conc. 0.09651mg/L



Sample

Sample Name: 280-99576-c-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

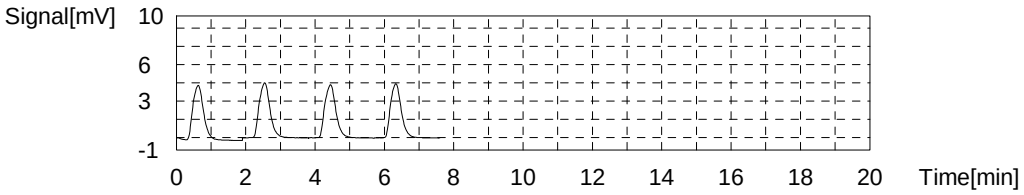
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.015mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.590	3.007mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:13:36 PM
2	9.650	3.026mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:15:40 PM
3	9.676	3.035mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:17:44 PM
4	9.536	2.990mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:19:47 PM

Mean Area 9.613
Mean Conc. 3.015mg/L



Sample

Sample Name: MS 280-99576-c-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

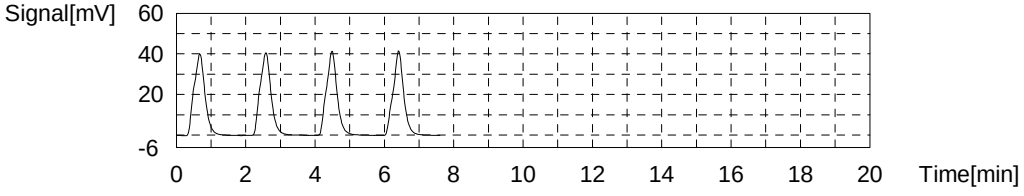
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.62mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.76	28.69mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:28:20 PM
2	90.24	28.84mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:30:24 PM
3	89.48	28.60mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:32:28 PM
4	88.69	28.35mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:34:32 PM

Mean Area 89.54
Mean Conc. 28.62mg/L



Sample

Sample Name: MSD 280-99576-c-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

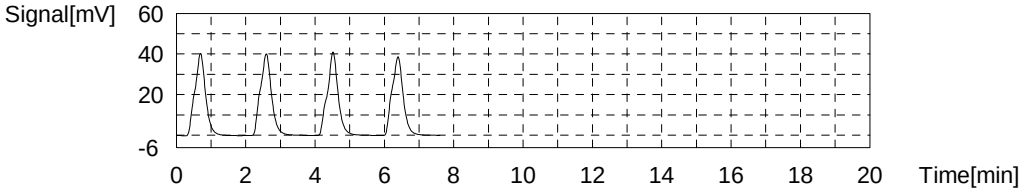
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.46mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	88.42	28.26mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:43:04 PM
2	90.59	28.96mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:45:08 PM
3	89.53	28.62mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:47:12 PM
4	87.67	28.02mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:49:15 PM

Mean Area 89.05
Mean Conc. 28.46mg/L



Sample

Sample Name: 280-99527-a-9
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

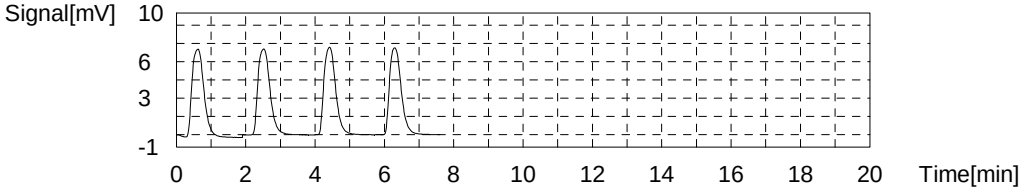
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.355mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.09	5.410mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:57:48 PM
2	17.06	5.400mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 3:59:52 PM
3	16.86	5.336mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:01:56 PM
4	16.66	5.272mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:03:59 PM

Mean Area 16.92
Mean Conc. 5.355mg/L



Sample

Sample Name: 280-99532-e-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

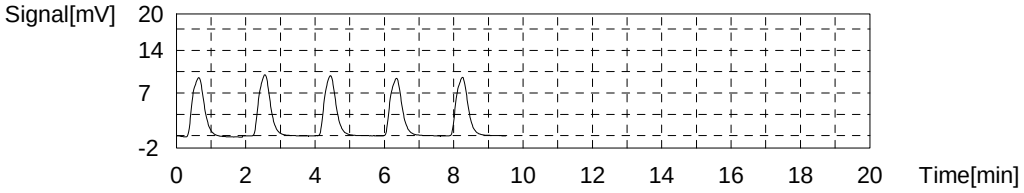
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.328mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	23.48	7.457mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:12:32 PM
2	23.37	7.422mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:14:36 PM
3	22.76	7.226mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:16:40 PM
4	22.36	7.098mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:18:44 PM
5	22.70	7.207mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:20:47 PM

Mean Area 23.08
Mean Conc. 7.328mg/L



Sample

Sample Name: 280-99532-e-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

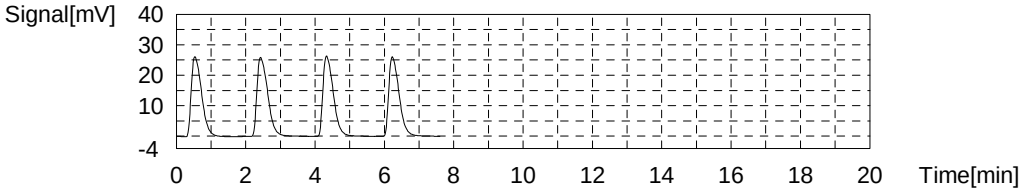
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.66mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	55.33	17.66mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:29:18 PM
2	56.20	17.94mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:31:22 PM
3	55.34	17.66mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:33:26 PM
4	54.48	17.39mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:35:29 PM

Mean Area 55.34
Mean Conc. 17.66mg/L



Sample

Sample Name: 280-99532-e-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

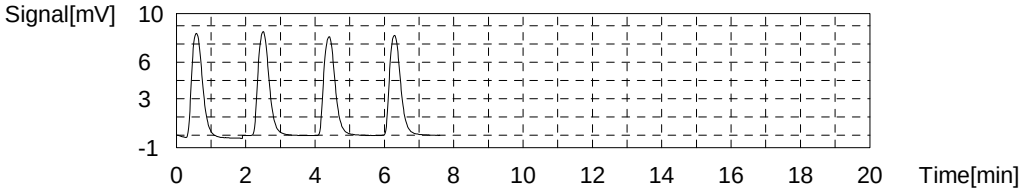
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.884mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.44	5.842mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:44:02 PM
2	19.04	6.034mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:46:06 PM
3	18.43	5.839mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:48:10 PM
4	18.37	5.820mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:50:13 PM

Mean Area 18.57
Mean Conc. 5.884mg/L



Sample

Sample Name: 280-99532-e-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

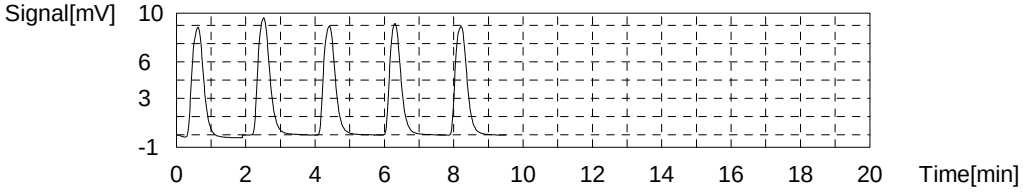
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.581mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.88	6.624mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 4:58:45 PM
2	22.69	7.204mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:00:49 PM
3	20.84	6.611mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:02:53 PM
4	20.51	6.505mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:04:57 PM
5	20.76	6.585mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:07:00 PM

Mean Area 20.75
Mean Conc. 6.581mg/L



Sample

Sample Name: 280-99532-d-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

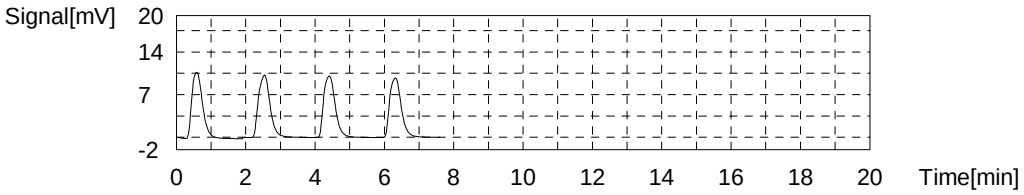
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.420mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	23.45	7.447mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:15:31 PM
2	23.82	7.566mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:17:35 PM
3	23.40	7.431mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:19:39 PM
4	22.79	7.236mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:21:42 PM

Mean Area 23.37
Mean Conc. 7.420mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

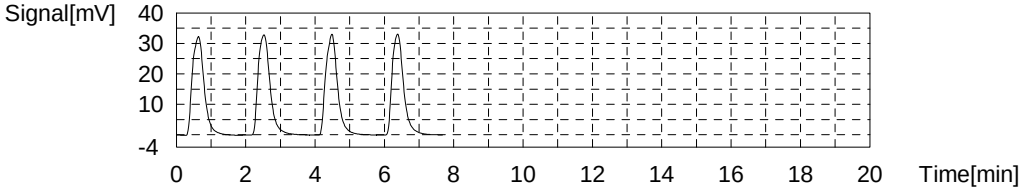
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.89mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	77.77	24.85mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:30:15 PM
2	79.01	25.25mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:32:21 PM
3	78.32	25.02mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:34:26 PM
4	76.51	24.44mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:36:30 PM

Mean Area 77.90
Mean Conc. 24.89mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

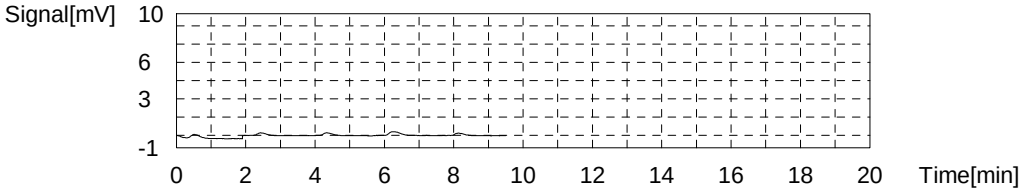
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05909mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4691	0.08537mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:45:03 PM
2	0.3569	0.04942mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:47:07 PM
3	0.3845	0.05826mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:49:11 PM
4	0.6307	0.1371mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:51:14 PM
5	0.3378	0.04330mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 5:53:18 PM

Mean Area 0.3871
Mean Conc. 0.05909mg/L



Sample

Sample Name: 280-99532-e-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

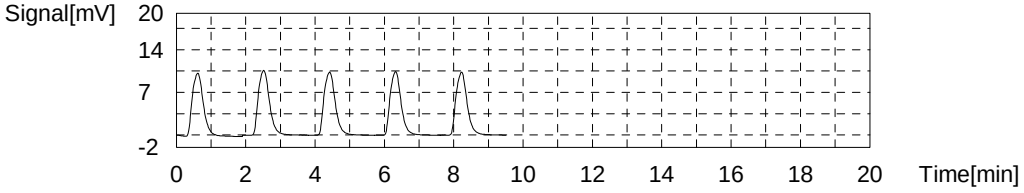
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.306mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.69	7.204mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:01:49 PM
2	23.82	7.566mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:03:53 PM
3	23.33	7.409mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:05:57 PM
4	22.97	7.293mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:08:00 PM
5	23.05	7.319mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:10:04 PM

Mean Area 23.01
Mean Conc. 7.306mg/L



Sample

Sample Name: 280-99503-a-37
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

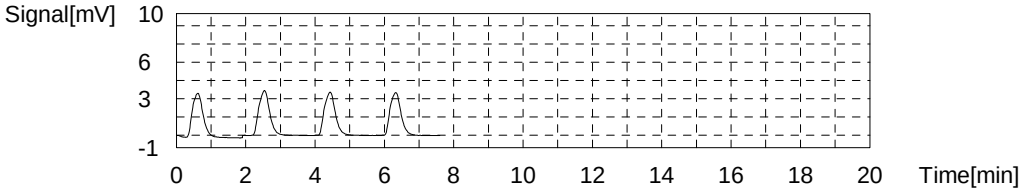
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.435mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.733	2.412mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:18:35 PM
2	7.968	2.488mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:20:39 PM
3	7.800	2.434mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:22:42 PM
4	7.711	2.405mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:24:46 PM

Mean Area 7.803
Mean Conc. 2.435mg/L



Sample

Sample Name: 280-99568-c-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

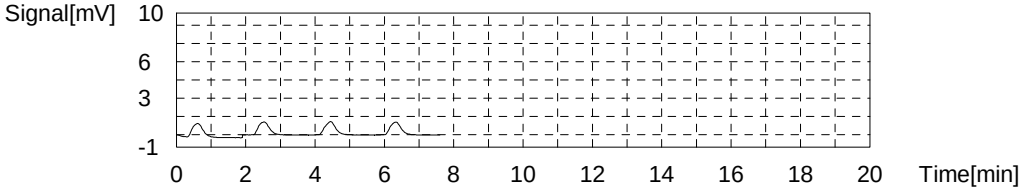
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6805mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.347	0.6869mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:33:19 PM
2	2.334	0.6828mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:35:23 PM
3	2.348	0.6873mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:37:26 PM
4	2.278	0.6648mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:39:30 PM

Mean Area 2.327
Mean Conc. 0.6805mg/L



Sample

Sample Name: 280-99568-c-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

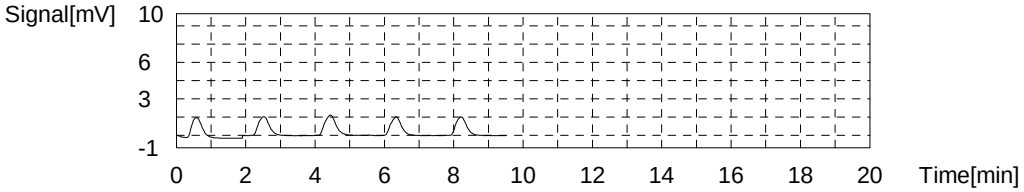
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9982mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.309	0.9951mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:48:02 PM
2	3.382	1.019mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:50:06 PM
3	3.757	1.139mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:52:09 PM
4	3.304	0.9935mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:54:13 PM
5	3.279	0.9855mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 6:56:17 PM

Mean Area 3.319
Mean Conc. 0.9982mg/L



Sample

Sample Name: 280-99568-c-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

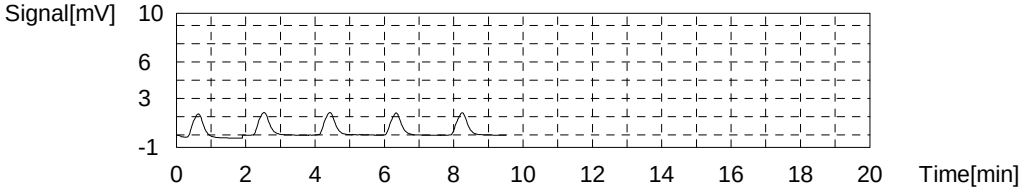
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.181mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.100	1.249mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:04:48 PM
2	3.959	1.203mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:06:52 PM
3	3.917	1.190mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:08:56 PM
4	3.812	1.156mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:10:59 PM
5	3.868	1.174mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:13:03 PM

Mean Area 3.889
Mean Conc. 1.181mg/L



Sample

Sample Name: 280-99568-c-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

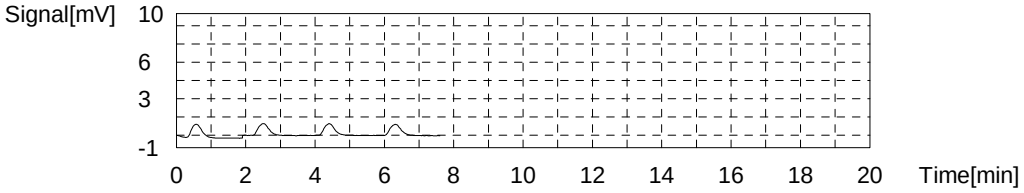
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6025mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.202	0.6405mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:21:34 PM
2	2.086	0.6033mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:23:38 PM
3	2.014	0.5803mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:25:41 PM
4	2.032	0.5860mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:27:45 PM

Mean Area 2.083
Mean Conc. 0.6025mg/L



Sample

Sample Name: 280-99568-c-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

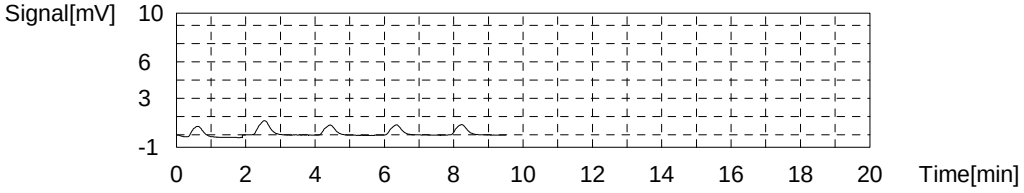
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5172mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.834	0.5226mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:36:18 PM
2	2.606	0.7699mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:38:22 PM
3	1.820	0.5181mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:40:25 PM
4	1.778	0.5047mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:42:29 PM
5	1.836	0.5232mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:44:33 PM

Mean Area 1.817
Mean Conc. 0.5172mg/L



Sample

Sample Name: 280-99568-c-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

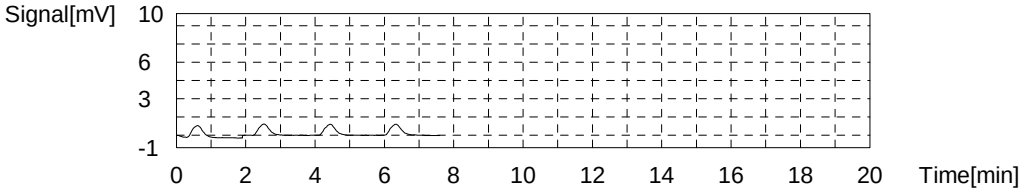
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5655mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.028	0.5848mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:53:04 PM
2	1.929	0.5530mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:55:08 PM
3	1.937	0.5556mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:57:11 PM
4	1.978	0.5687mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 7:59:15 PM

Mean Area 1.968
Mean Conc. 0.5655mg/L



Sample

Sample Name: 280-99569-c-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

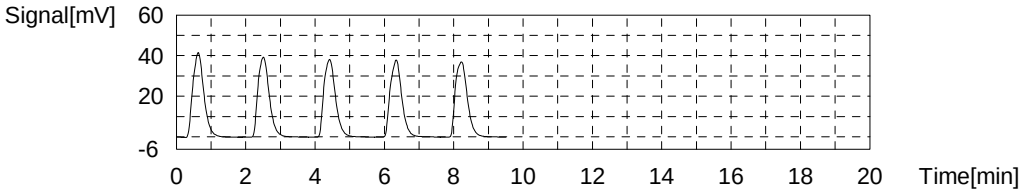
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.58mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	94.15	30.10mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:07:48 PM
2	89.92	28.74mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:09:52 PM
3	89.50	28.61mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:11:55 PM
4	88.67	28.34mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:13:59 PM
5	89.54	28.62mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:16:03 PM

Mean Area 89.41
Mean Conc. 28.58mg/L



Sample

Sample Name: 280-99569-c-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

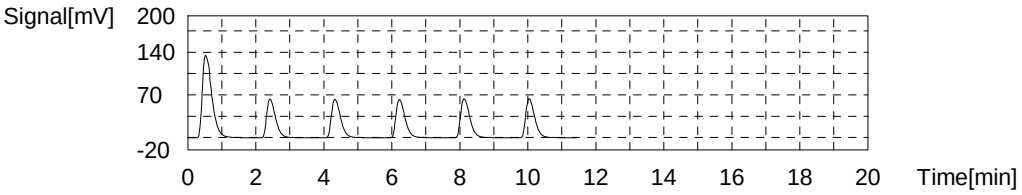
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:81.88mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	266.9	85.44mg/L	50uL	1	R	TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:24:34 PM
2	115.8	80.58mg/L	23uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:26:38 PM
3	118.5	82.46mg/L	23uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:28:41 PM
4	117.5	81.76mg/L	23uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:30:45 PM
5	121.6	84.62mg/L	23uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:32:50 PM
6	118.9	82.74mg/L	23uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:34:54 PM

Mean Area 117.7
Mean Conc. 81.88mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

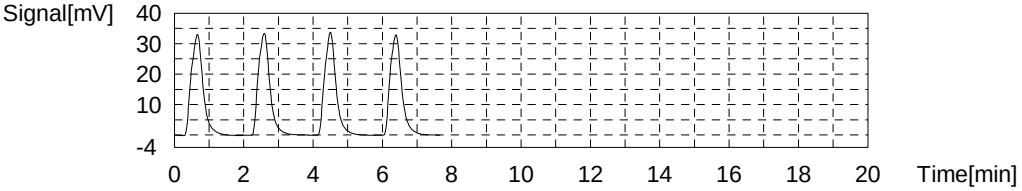
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.80mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	79.37	25.36mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:43:23 PM
2	77.61	24.80mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:45:27 PM
3	77.08	24.63mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:47:31 PM
4	76.47	24.43mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:49:34 PM

Mean Area 77.63
Mean Conc. 24.80mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

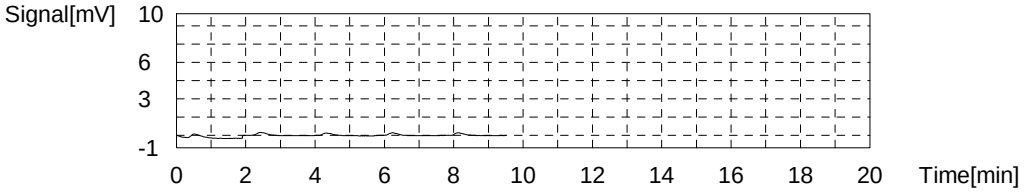
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06212mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5807	0.1211mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 8:58:07 PM
2	0.4684	0.08514mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:00:10 PM
3	0.3626	0.05125mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:02:14 PM
4	0.3758	0.05548mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:04:18 PM
5	0.3793	0.05660mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:06:22 PM

Mean Area 0.3965
Mean Conc. 0.06212mg/L



Sample

Sample Name: 280-99569-c-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

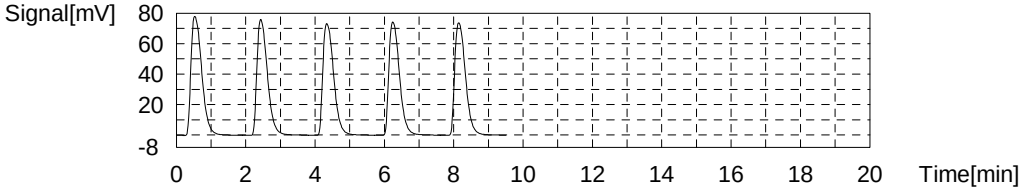
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:51.16mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	170.8	54.65mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:14:53 PM
2	160.2	51.25mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:16:57 PM
3	159.7	51.09mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:19:00 PM
4	159.7	51.09mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:21:04 PM
5	160.0	51.19mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:23:08 PM

Mean Area 159.9
Mean Conc. 51.16mg/L



Sample

Sample Name: 280-99569-c-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

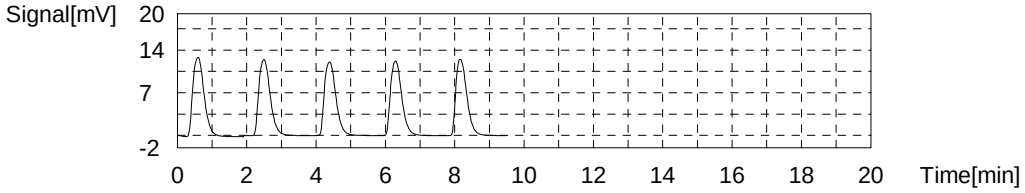
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.908mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	29.65	9.433mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:31:40 PM
2	28.58	9.091mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:33:43 PM
3	27.89	8.870mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:35:47 PM
4	27.78	8.834mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:37:51 PM
5	27.79	8.838mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:39:55 PM

Mean Area 28.01
Mean Conc. 8.908mg/L



Sample

Sample Name: 280-99576-a-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

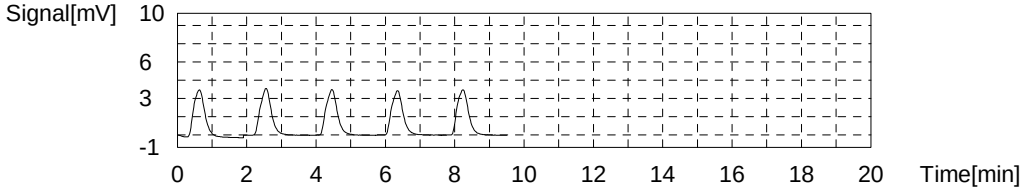
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.618mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.650	2.706mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:48:46 PM
2	8.468	2.648mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:50:50 PM
3	8.430	2.636mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:52:53 PM
4	8.227	2.571mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:54:57 PM
5	8.373	2.617mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 9:57:01 PM

Mean Area 8.375
Mean Conc. 2.618mg/L



Sample

Sample Name: MS 280-99576-a-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

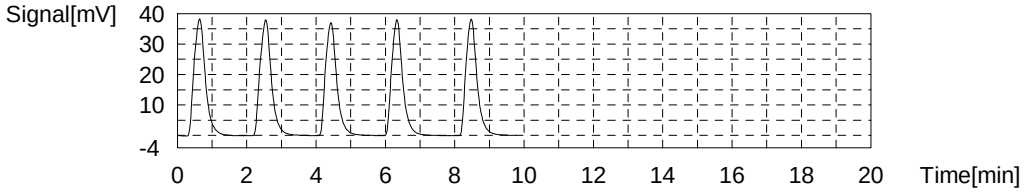
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.18mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.89	28.09mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:05:33 PM
2	86.97	27.80mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:07:37 PM
3	83.50	26.68mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:09:40 PM
4	84.60	27.04mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:11:59 PM
5	85.09	27.19mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:14:04 PM

Mean Area 85.04
Mean Conc. 27.18mg/L



Sample

Sample Name: MSD 280-99576-a-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

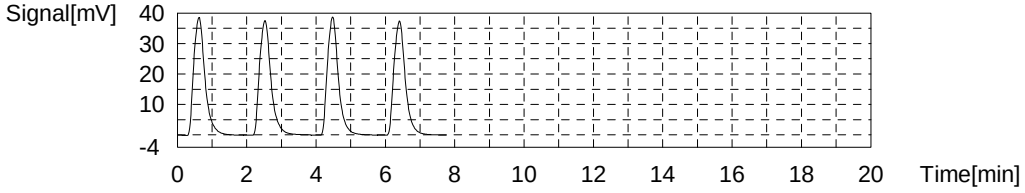
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.68mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	88.39	28.25mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:22:36 PM
2	86.56	27.66mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:24:42 PM
3	85.71	27.39mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:26:47 PM
4	85.76	27.41mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:28:56 PM

Mean Area 86.60
Mean Conc. 27.68mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

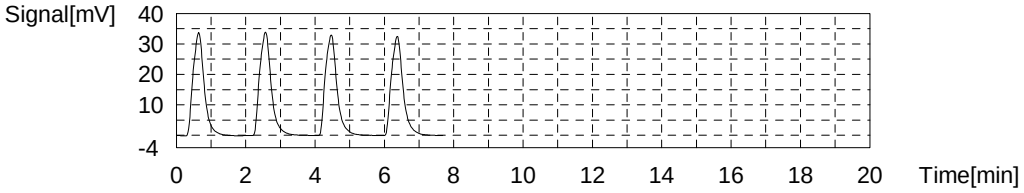
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.67mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.43	24.42mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:37:30 PM
2	78.72	25.15mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:39:34 PM
3	77.03	24.61mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:41:37 PM
4	76.66	24.49mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:43:45 PM

Mean Area 77.21
Mean Conc. 24.67mg/L



Sample

Sample Name: LCSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

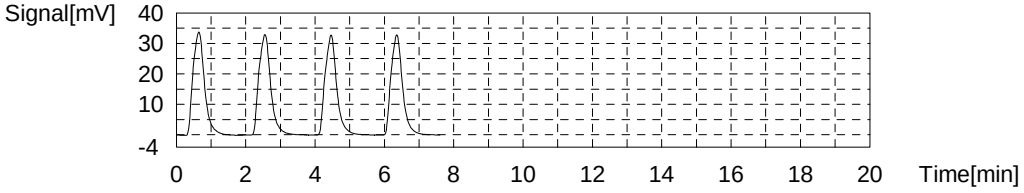
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.82mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	79.29	25.34mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:52:18 PM
2	78.51	25.09mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:54:22 PM
3	76.53	24.45mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:56:25 PM
4	76.36	24.40mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 10:58:29 PM

Mean Area 77.67
Mean Conc. 24.82mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

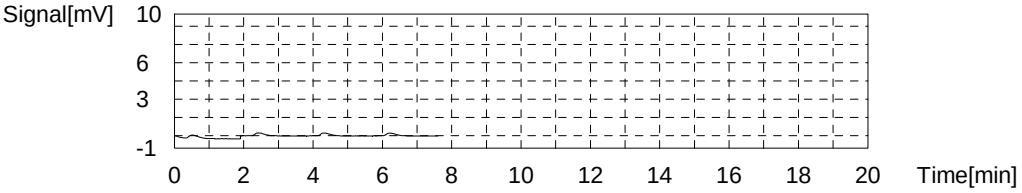
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06653mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4251	0.07127mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:07:02 PM
2	0.4008	0.06349mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:09:06 PM
3	0.4245	0.07108mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:11:09 PM
4	0.3908	0.06028mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:13:13 PM

Mean Area 0.4103
Mean Conc. 0.06653mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

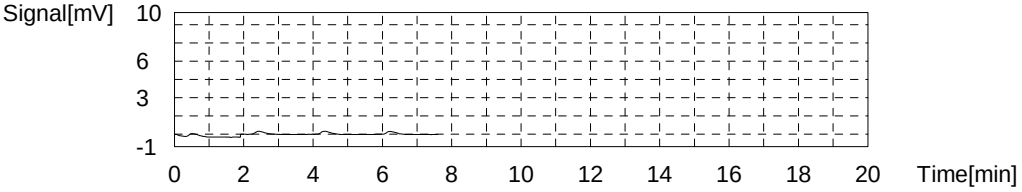
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07465mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3748	0.05516mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:21:46 PM
2	0.4549	0.08082mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:23:50 PM
3	0.4665	0.08453mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:25:53 PM
4	0.4464	0.07809mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:27:57 PM

Mean Area 0.4357
Mean Conc. 0.07465mg/L



Sample

Sample Name: 280-99576-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

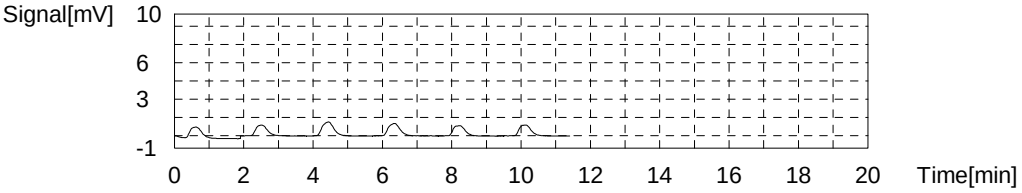
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	5.000	NPOC:2.901mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.024	2.917mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:36:30 PM
2	2.007	2.890mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:38:33 PM
3	2.641	3.906mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:40:37 PM
4	2.343	3.428mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:42:41 PM
5	1.965	2.823mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:44:45 PM
6	2.059	2.973mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:46:49 PM

Mean Area 2.014
Mean Conc. 2.901mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

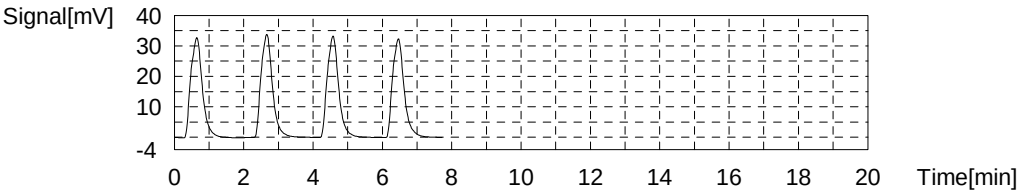
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.57mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	77.52	24.77mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:55:23 PM
2	77.66	24.81mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:57:26 PM
3	76.88	24.56mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/28/2017 11:59:30 PM
4	75.55	24.14mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:01:34 AM

Mean Area 76.90
Mean Conc. 24.57mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

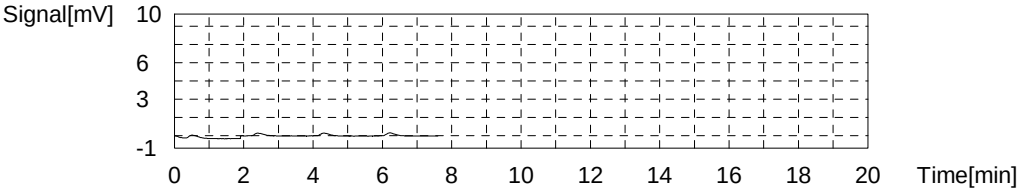
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05735mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3795	0.05666mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:10:07 AM
2	0.3824	0.05759mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:12:10 AM
3	0.3544	0.04862mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:14:14 AM
4	0.4103	0.06653mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:16:18 AM

Mean Area 0.3817
Mean Conc. 0.05735mg/L



Sample

Sample Name: 280-99576-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

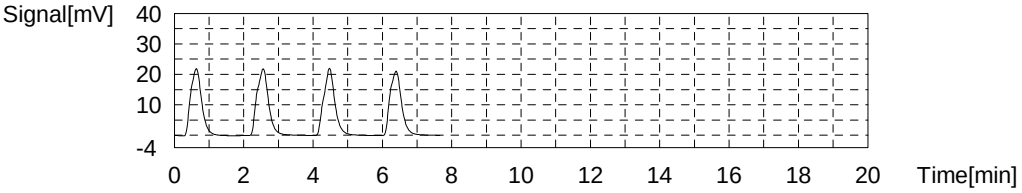
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.94mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	49.61	15.83mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:24:51 AM
2	51.12	16.31mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:26:55 AM
3	49.80	15.89mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:29:02 AM
4	49.28	15.72mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:31:05 AM

Mean Area 49.95
Mean Conc. 15.94mg/L



Sample

Sample Name: 280-99576-a-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

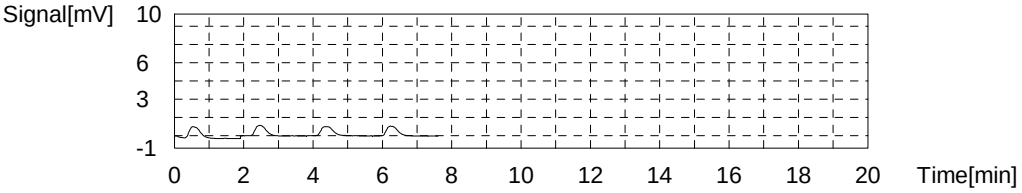
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	5.000	NPOC:2.578mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.936	2.776mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:39:37 AM
2	1.800	2.559mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:41:41 AM
3	1.748	2.475mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:43:45 AM
4	1.764	2.501mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:45:49 AM

Mean Area 1.812
Mean Conc. 2.578mg/L



Sample

Sample Name: 280-99576-c-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

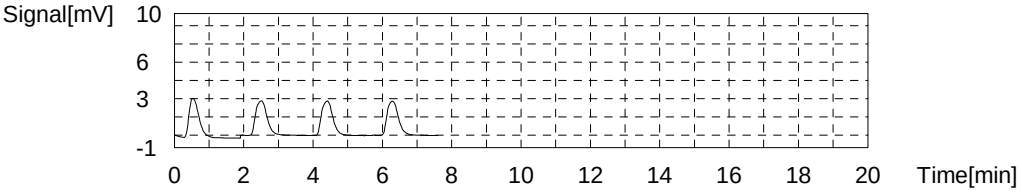
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.980mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.347	1.968mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:54:22 AM
2	6.491	2.014mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:56:25 AM
3	6.358	1.972mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 12:58:29 AM
4	6.341	1.966mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:00:33 AM

Mean Area 6.384
Mean Conc. 1.980mg/L



Sample

Sample Name: MS 280-99576-c-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

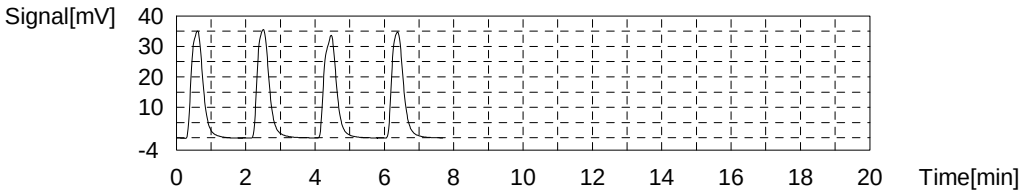
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.52mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	82.90	26.49mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:09:06 AM
2	84.47	26.99mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:11:10 AM
3	83.26	26.61mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:13:18 AM
4	81.33	25.99mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:15:22 AM

Mean Area 82.99
Mean Conc. 26.52mg/L



Sample

Sample Name: MSD 280-99576-c-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

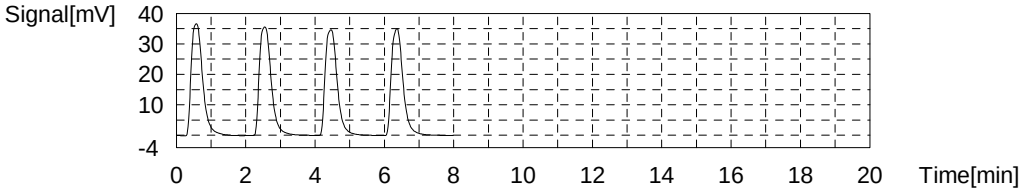
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.89mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	85.95	27.47mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:23:59 AM
2	84.75	27.08mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:26:02 AM
3	83.17	26.58mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:28:06 AM
4	82.70	26.43mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:30:29 AM

Mean Area 84.14
Mean Conc. 26.89mg/L



Sample

Sample Name: 280-99576-a-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

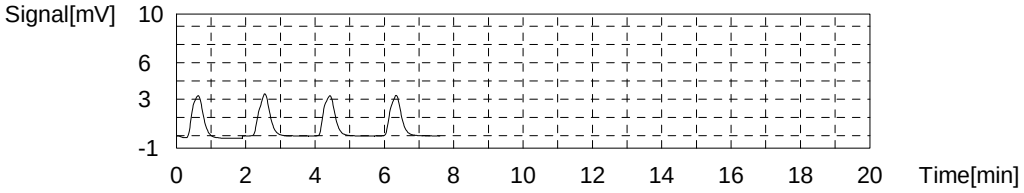
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.334mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.644	2.384mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:39:02 AM
2	7.485	2.333mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:41:05 AM
3	7.469	2.328mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:43:09 AM
4	7.360	2.293mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:45:13 AM

Mean Area 7.490
Mean Conc. 2.334mg/L



Sample

Sample Name: 280-99576-a-9
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

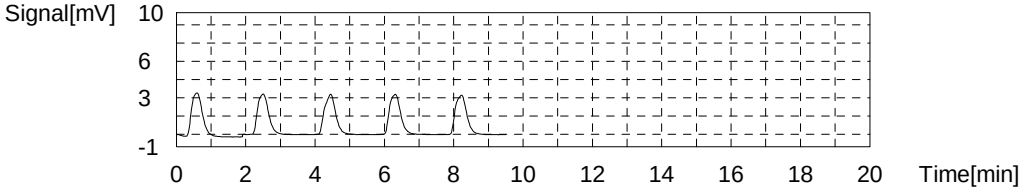
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.302mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.743	2.416mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:53:45 AM
2	7.352	2.290mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:55:49 AM
3	7.431	2.316mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:57:53 AM
4	7.380	2.299mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 1:59:57 AM
5	7.394	2.304mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:02:01 AM

Mean Area 7.389
Mean Conc. 2.302mg/L



Sample

Sample Name: 280-99576-a-10
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

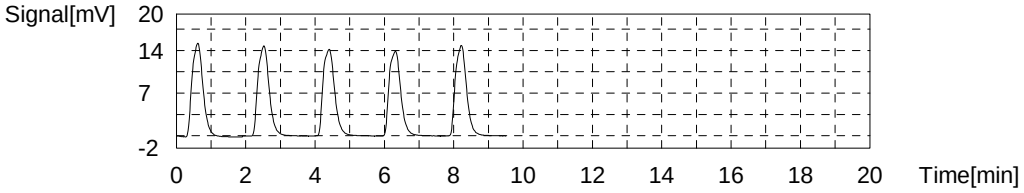
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.52mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.11	10.86mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:10:33 AM
2	33.52	10.67mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:12:36 AM
3	32.91	10.48mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:14:40 AM
4	32.48	10.34mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:16:44 AM
5	33.29	10.60mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:18:48 AM

Mean Area 33.05
Mean Conc. 10.52mg/L



Sample

Sample Name: 280-99576-a-16
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

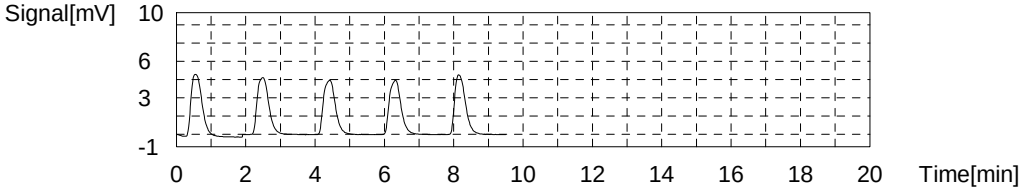
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.333mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.36	3.574mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:27:20 AM
2	10.80	3.395mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:29:23 AM
3	10.65	3.347mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:31:27 AM
4	10.42	3.273mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:33:31 AM
5	10.56	3.318mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:35:35 AM

Mean Area 10.61
Mean Conc. 3.333mg/L



Sample

Sample Name: 280-99576-a-17
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

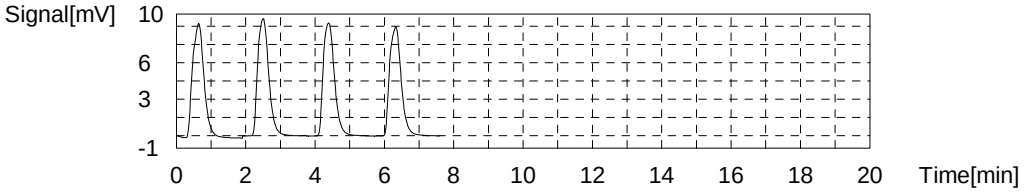
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.726mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.67	6.877mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:44:06 AM
2	21.41	6.794mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:46:10 AM
3	20.85	6.614mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:48:14 AM
4	20.87	6.621mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:50:18 AM

Mean Area 21.20
Mean Conc. 6.726mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

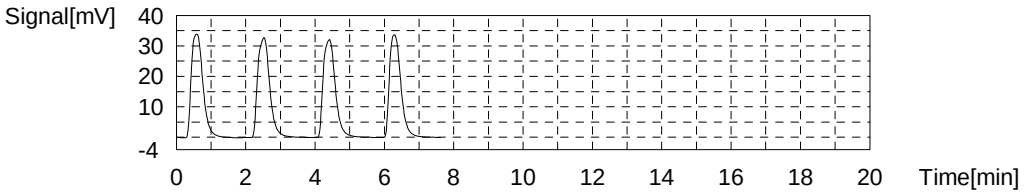
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.16mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	80.27	25.65mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 2:58:51 AM
2	79.13	25.28mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:00:54 AM
3	78.23	25.00mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:02:59 AM
4	77.30	24.70mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:05:03 AM

Mean Area 78.73
Mean Conc. 25.16mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

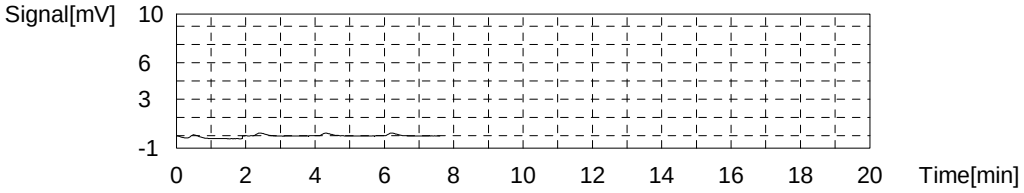
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05844mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3887	0.05961mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:13:35 AM
2	0.4150	0.06803mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:15:39 AM
3	0.3663	0.05243mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:17:43 AM
4	0.3702	0.05368mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:19:47 AM

Mean Area 0.3851
Mean Conc. 0.05844mg/L



Sample

Sample Name: 280-99576-a-18
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

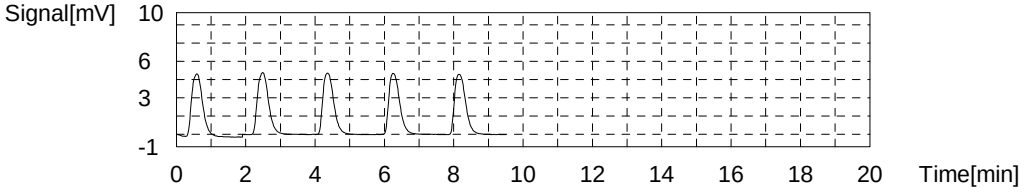
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.494mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.30	3.555mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:28:19 AM
2	11.29	3.552mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:30:23 AM
3	10.91	3.430mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:32:27 AM
4	10.78	3.388mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:34:31 AM
5	10.94	3.440mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:36:35 AM

Mean Area 11.11
Mean Conc. 3.494mg/L



Sample

Sample Name: 280-99576-a-19
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

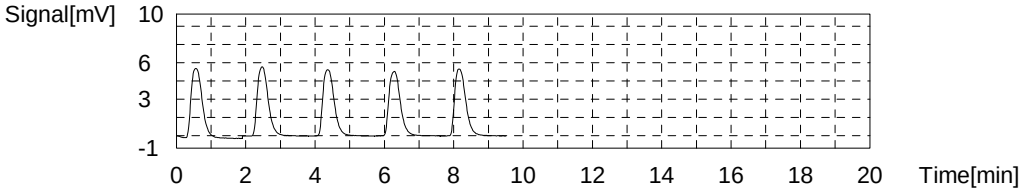
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.828mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.56	3.959mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:45:07 AM
2	12.33	3.885mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:47:10 AM
3	12.20	3.843mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:49:14 AM
4	11.96	3.766mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:51:18 AM
5	12.12	3.818mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 3:53:22 AM

Mean Area 12.15
Mean Conc. 3.828mg/L



Sample

Sample Name: 280-99576-a-21
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

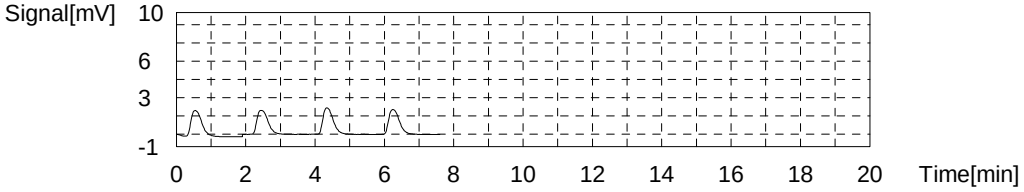
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.342mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.443	1.358mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:01:54 AM
2	4.310	1.316mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:03:58 AM
3	4.440	1.357mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:06:02 AM
4	4.380	1.338mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:08:06 AM

Mean Area 4.393
Mean Conc. 1.342mg/L



Sample

Sample Name: 280-99576-a-22
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

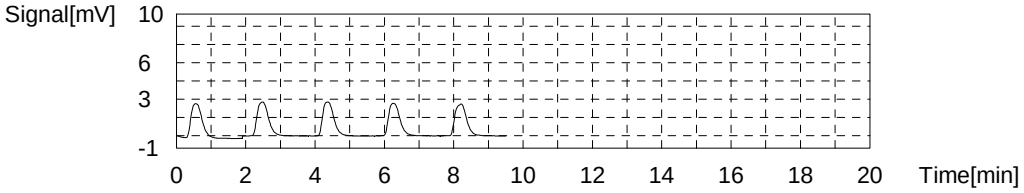
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.884mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.168	1.911mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:16:40 AM
2	6.283	1.948mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:18:43 AM
3	6.148	1.905mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:20:47 AM
4	5.969	1.847mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:22:51 AM
5	6.054	1.874mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:24:55 AM

Mean Area 6.085
Mean Conc. 1.884mg/L



Sample

Sample Name: 280-99576-a-23
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

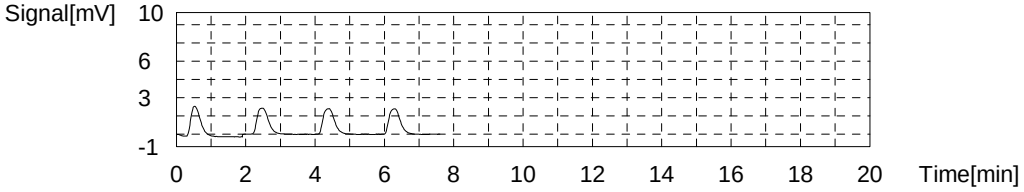
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:2.916mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.753	2.915mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:33:27 AM
2	4.794	2.942mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:35:31 AM
3	4.761	2.921mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:37:35 AM
4	4.705	2.885mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:39:39 AM

Mean Area 4.753
Mean Conc. 2.916mg/L



Sample

Sample Name: 280-99571-d-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

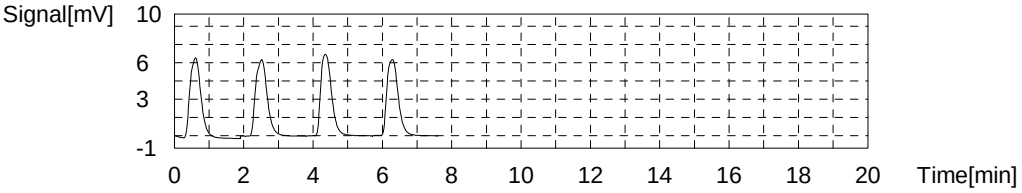
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.554mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.50	4.580mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:48:12 AM
2	14.59	4.609mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:50:16 AM
3	14.50	4.580mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:52:20 AM
4	14.08	4.446mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 4:54:24 AM

Mean Area 14.42
Mean Conc. 4.554mg/L



Sample

Sample Name: 280-99571-d-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

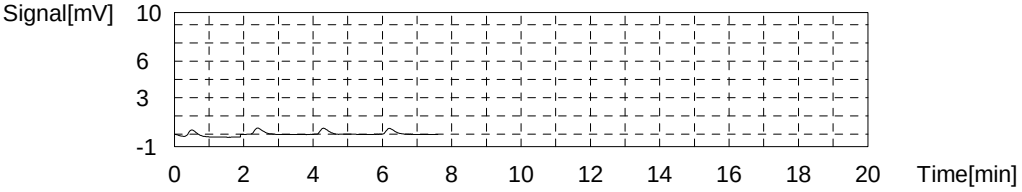
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1987mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8051	0.1930mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:02:58 AM
2	0.8598	0.2105mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:05:01 AM
3	0.8105	0.1947mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:07:05 AM
4	0.8166	0.1967mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:09:09 AM

Mean Area 0.8230
Mean Conc. 0.1987mg/L



Sample

Sample Name: 280-99574-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

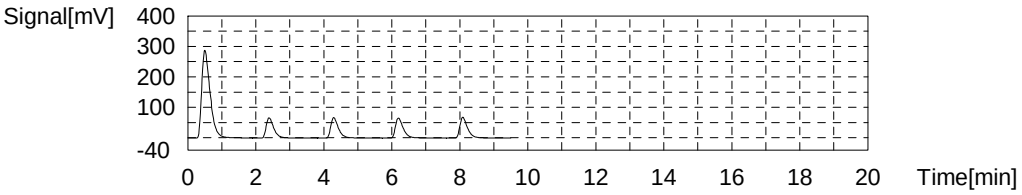
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:139.3mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	499.0	159.8mg/L	50uL	1	R	TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:17:42 AM
2	103.0	137.4mg/L	12uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:19:46 AM
3	103.9	138.6mg/L	12uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:21:50 AM
4	104.1	138.9mg/L	12uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:23:54 AM
5	106.7	142.4mg/L	12uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:25:58 AM

Mean Area 104.4
Mean Conc. 139.3mg/L



Sample

Sample Name: MS 280-99574-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

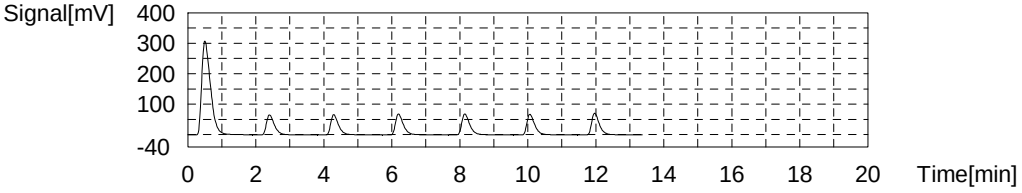
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:161.0mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	558.3	178.8mg/L	50uL	1	R	TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:34:31 AM
2	106.9	155.6mg/L	11uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:36:34 AM
3	104.6	152.2mg/L	11uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:38:38 AM
4	110.3	160.5mg/L	11uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:40:45 AM
5	111.8	162.7mg/L	11uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:42:50 AM
6	108.0	157.2mg/L	11uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:44:54 AM
7	112.4	163.6mg/L	11uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:49:17 AM

Mean Area 110.6
Mean Conc. 161.0mg/L



Sample

Sample Name: MSD 280-99574-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

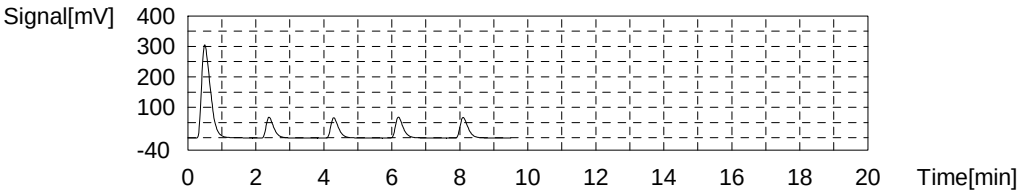
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:158.8mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	557.2	178.4mg/L	50uL	1	R	TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:57:43 AM
2	108.5	157.9mg/L	11uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 5:59:47 AM
3	106.3	154.7mg/L	11uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:01:51 AM
4	110.2	160.4mg/L	11uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:03:55 AM
5	111.3	162.0mg/L	11uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:05:59 AM

Mean Area 109.1
Mean Conc. 158.8mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

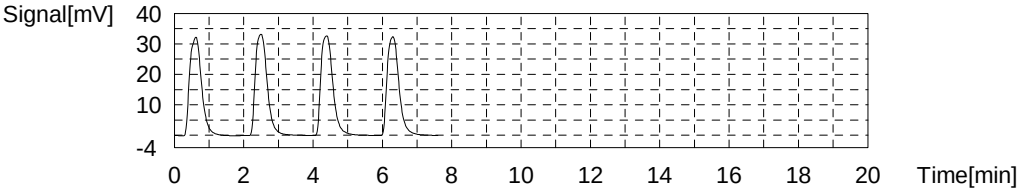
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.01mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	78.32	25.02mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:14:31 AM
2	78.93	25.22mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:16:35 AM
3	78.55	25.10mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:18:39 AM
4	77.27	24.69mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:20:43 AM

Mean Area 78.27
Mean Conc. 25.01mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

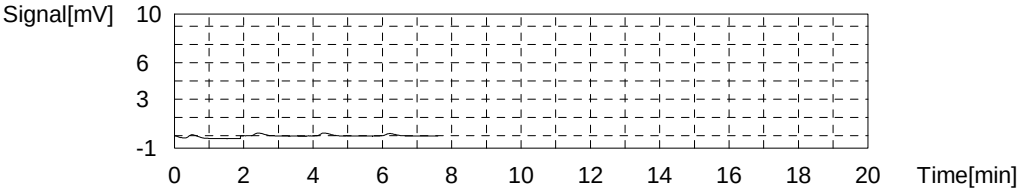
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07109mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4684	0.08514mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:29:16 AM
2	0.4239	0.07089mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:31:20 AM
3	0.4468	0.07822mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:33:24 AM
4	0.3591	0.05013mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:35:28 AM

Mean Area 0.4246
Mean Conc. 0.07109mg/L



Sample

Sample Name: 280-99574-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

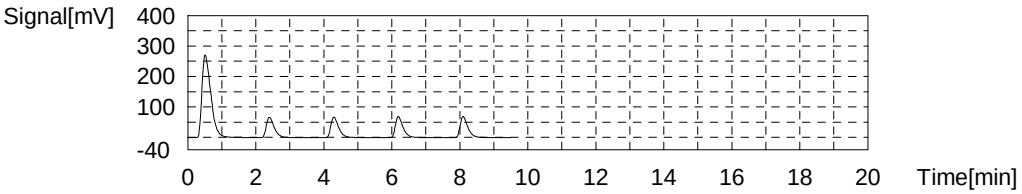
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:145.2mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	497.5	159.3mg/L	50uL	1	R	TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:44:01 AM
2	109.1	145.6mg/L	12uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:46:05 AM
3	108.2	144.4mg/L	12uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:48:09 AM
4	108.6	144.9mg/L	12uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:50:13 AM
5	109.5	146.1mg/L	12uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 6:52:17 AM

Mean Area 108.9
Mean Conc. 145.2mg/L



Sample

Sample Name: 280-99574-a-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

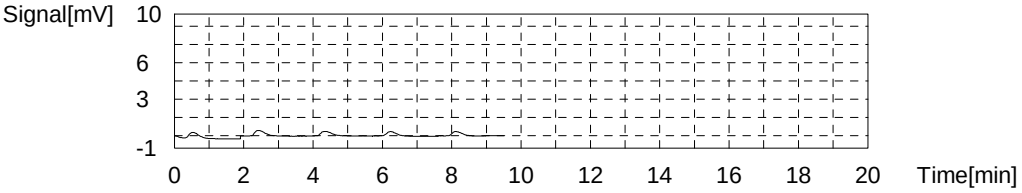
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1735mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8593	0.2104mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:00:49 AM
2	0.9097	0.2265mg/L	50uL	1	E	TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:02:53 AM
3	0.7722	0.1825mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:04:57 AM
4	0.6663	0.1485mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:07:01 AM
5	0.6786	0.1525mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:09:05 AM

Mean Area 0.7441
Mean Conc. 0.1735mg/L



Sample

Sample Name: 280-99574-a-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

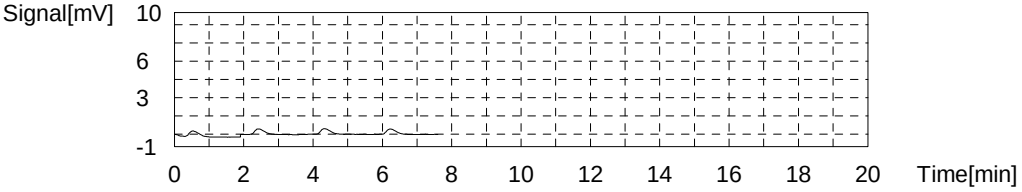
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1988mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7828	0.1859mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:17:37 AM
2	0.8471	0.2065mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:19:41 AM
3	0.8404	0.2043mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:21:45 AM
4	0.8226	0.1986mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:23:49 AM

Mean Area 0.8232
Mean Conc. 0.1988mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

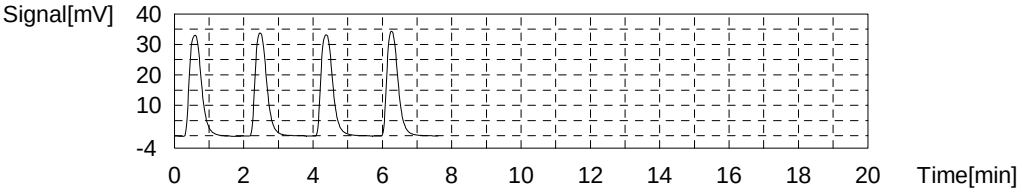
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.06mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	80.50	25.72mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:32:22 AM
2	77.76	24.85mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:34:26 AM
3	78.32	25.02mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:36:30 AM
4	77.20	24.67mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:38:34 AM

Mean Area 78.44
Mean Conc. 25.06mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

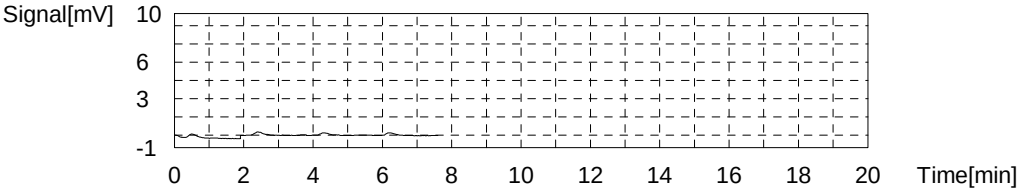
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06400mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4279	0.07217mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:47:07 AM
2	0.4549	0.08082mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:49:11 AM
3	0.3552	0.04888mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:51:15 AM
4	0.3716	0.05413mg/L	50uL	1		TOC3.2017_07_25_14_28_32.cal	7/29/2017 7:53:19 AM

Mean Area 0.4024
Mean Conc. 0.06400mg/L



TOC-V Cal Curve Information
C:¥TOC3201¥CalCurves¥TOC3.2017_07_25_14_28_32.cal

Date of Creation 3:31:41 PM 7/25/2017
User cj
System TOC-V cpn 3

Cal. Curve

Sample Name: CAL 110716
Sample ID: Untitled
Object ID 0A-103108-04335027-133C7E520477-0000
Cal. Curve: TOC3.2017_07_25_14_28_32.cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.3778	50uL	1	*******		7/25/2017 2:36:12 PM
2	0.4378	50uL	1	*******		7/25/2017 2:38:16 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 0.4078
SD Area 0.04243
CV Area 10.40%
Vial 1

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.428	50uL	1	*******		7/25/2017 2:46:50 PM
2	3.383	50uL	1	*******		7/25/2017 2:48:54 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 3.406
SD Area 0.03182
CV Area 0.93%
Vial 2

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	15.70	50uL	1	*******		7/25/2017 2:57:28 PM
2	15.76	50uL	1	*******		7/25/2017 2:59:32 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 15.73
SD Area 0.04243
CV Area 0.27%
Vial 3

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	31.23	50uL	1	*******		7/25/2017 3:08:06 PM
2	31.10	50uL	1	*******		7/25/2017 3:10:10 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 31.16
SD Area 0.09192
CV Area 0.29%
Vial 4

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	78.42	50uL	1	*******		7/25/2017 3:18:44 PM
2	78.03	50uL	1	*******		7/25/2017 3:20:49 PM

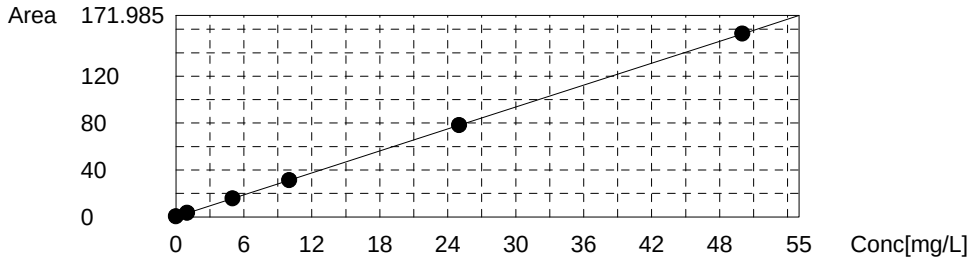
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 78.22
SD Area 0.2758
CV Area 0.35%
Vial 5

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	156.7	50uL	1	*******		7/25/2017 3:29:31 PM
2	156.0	50uL	1	*******		7/25/2017 3:31:41 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 156.4
SD Area 0.4950
CV Area 0.32%
Vial 6

Slope: 3.122
Intercept 0.2026
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

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Michael Doyotte	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-65344-22220.1
Client Contact: Mr. Michael Poligone	Phone:	E-Mail: donna.rydberg@testamericainc.com		Page: Page ___ of ___
Company: Leidos, Inc.				Job #:
Address: 301 Laboratory Road Leidos SSC-AP LOC #47, MS 2113-03	Due Date Requested:			
City: Oak Ridge	TAT Requested (days): Standard TAT			
State, Zip: TN, 37830				
Phone: 865-481-8749(Tel)	PO #: 314561.00.04.8001.324			
Email: poligonem@leidos.com	WO #: CLIM 0002: 314561.00.04.8002.940			
Project Name: Stratton ANGB, NY	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	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 - VOCs	9060A - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S		
6MW2005	7/21/17	9:35	G	GW	N	N	X	X	4	
6MW2005D	7/21/17	9:35	G	GW	N	N	X		3	
6MW2005MS	7/21/17	9:35	G	GW	N	Y	X		3	
6MW2005MSD	7/21/17	9:35	G	GW	N	Y	X		3	
6MW2205	7/21/17	11:05	G	GW	N	N	X	X	4	
6MW2305	7/21/17	12:00	G	GW	N	N	X	X	4	
6MW2405	7/21/17	12:40	G	GW	N	N	X	X	4	
6MW2505	7/21/17	13:40	G	GW	N	N	X	X	4	
6MW2605	7/21/17	14:30	G	GW	N	N	X	X	4	
TB06	7/21/17	14:45	G	QC	N	N	X		3	
EB02	7/21/17	14:50	G	QC	N	N	X		3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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]	7/21/17 4:30 pm	Haztech	Tim [signature]	7-24-17 1100	TA
[signature]	7-24-17 1800	TA	Lauren Lowy	7/25/17 0900	TAD
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:

1.5 1.5 IR#7 Transfered by Ld 7/25/17

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

estAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	COC No: 280-406942.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: New York
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA; NELAP - Florida; NELAP - New Hampshire ...	Page: Page 1 of 2
Address: 13715 Rider Trail North, ,	Due Date Requested: 8/11/2017		Job #: 280-99527-1
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	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)	8260C_DOD5/5030C VOCs - TA St. Louis (for NY samples)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
6MW2005 (280-99527-1)	7/21/17	09:35 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2005MS (280-99527-1MS)	7/21/17	09:35 Eastern	MS	Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2005MSD (280-99527-1MSD)	7/21/17	09:35 Eastern	MSD	Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2205 (280-99527-5)	7/21/17	11:05 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2305 (280-99527-6)	7/21/17	12:00 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2405 (280-99527-7)	7/21/17	12:40 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2505 (280-99527-8)	7/21/17	13:40 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2605 (280-99527-9)	7/21/17	14:30 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
TB06 (280-99527-10)	7/21/17	14:45 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 *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *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: 7/26/17 1440	Company TAD	Received by:	Date/Time: 7/27/17 0910	Company TASL
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:

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: 280-406942.2
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 #: 280-99527-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 8/11/2017			
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	Project #: 28015159			
Site:	SSOW#:			

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:

Analysis Requested

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:						
FB02 (280-99527-11)	7/21/17	14:50 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
TRIP BLANK (280-99527-12)	7/21/17	09:35 Eastern		Water			X	2	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2005D (280-99527-13)	7/21/17	09:35 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
Patricia Lee	7/26/17 1440	TAS		7/27/17 0910	TASL
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: 280-99527-1

Login Number: 99527
List Number: 1
Creator: Loux, Lauren P

List Source: 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.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
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").	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: 280-99527-1

Login Number: 99527
List Number: 2
Creator: Taylor, Kristene N

List Source: TestAmerica St. Louis
List Creation: 07/27/17 03:32 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	1.9
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?	False	
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.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C – FIELD CHANGE NOTICE 02

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FIELD CHANGE ORDER NO.: **Stratton FCO No. 02**

PROJECT: **2015 Eastern Regional Installation Restoration Program, Remedial Action – Operations, Long Term Monitoring, Project Closeout at Multiple Air National Guard Installations Eastern Region, Stratton Air National Guard Base**

CONTRACT NO.**:** **Contract Number DW9133L-14-D-0007, Task Order Number 0004**

REQUESTER IDENTIFICATION:

NAME: **Michael Poligone** ORGANIZATION: Leidos PHONE: **(865) 481-8749**

TITLE: **Leidos Project Manager** SIGNATURE: M. Pol

BASELINE IDENTIFICATION:

BASELINE(S) AFFECTED: ☒ COST ☒ SCOPE ☒ MILESTONE ☒ METHOD OF ACCOMPLISHMENT

AFFECTED DOCUMENT: **Work Plan for RAO, Monitoring, And Project Closeout at Site 6 (Suspected Spill Area), 109th Airlift Wing, Stratton ANGB, Scotia, New York**

DESCRIPTION OF CHANGE:

This change is included in the ANG base scope of work and will not impact ANG cost or schedule. In accordance with existing approved work plan, conduct supplemental injections into existing injection wells in the vicinity of 4 existing monitoring wells (Table 1). The scope will be the same as the current work plan with variation in the quantity of vegetable oil injected. We will not be injecting into 6MW-20, so the additional creek protection elements would not be implemented other than having oil booms on hand. We would still monitor wells and the interceptor trench. See attached Table 1 for supplemental quantities and Figure 3.2 from RA Completion Report for injection well locations and Figure 1-2 for monitoring well locations.

JUSTIFICATION:

Supplemental injections to meet project milestones.

IMPACT OF NOT IMPLEMENTING REQUEST:

Not attaining payment milestone.

PARTICIPANTS AFFECTED BY IMPLEMENTING REQUEST:

Stratton Air National Guard Base

COST ESTIMATE: **N/A** ESTIMATOR SIGNATURE: _____

PHONE: _____ DATE: _____

PREVIOUS FCR AFFECTED ○ YES ☒ NO; IF YES, FCR NO _____

CLIENT PROJECT MANAGER _____ DATE _____

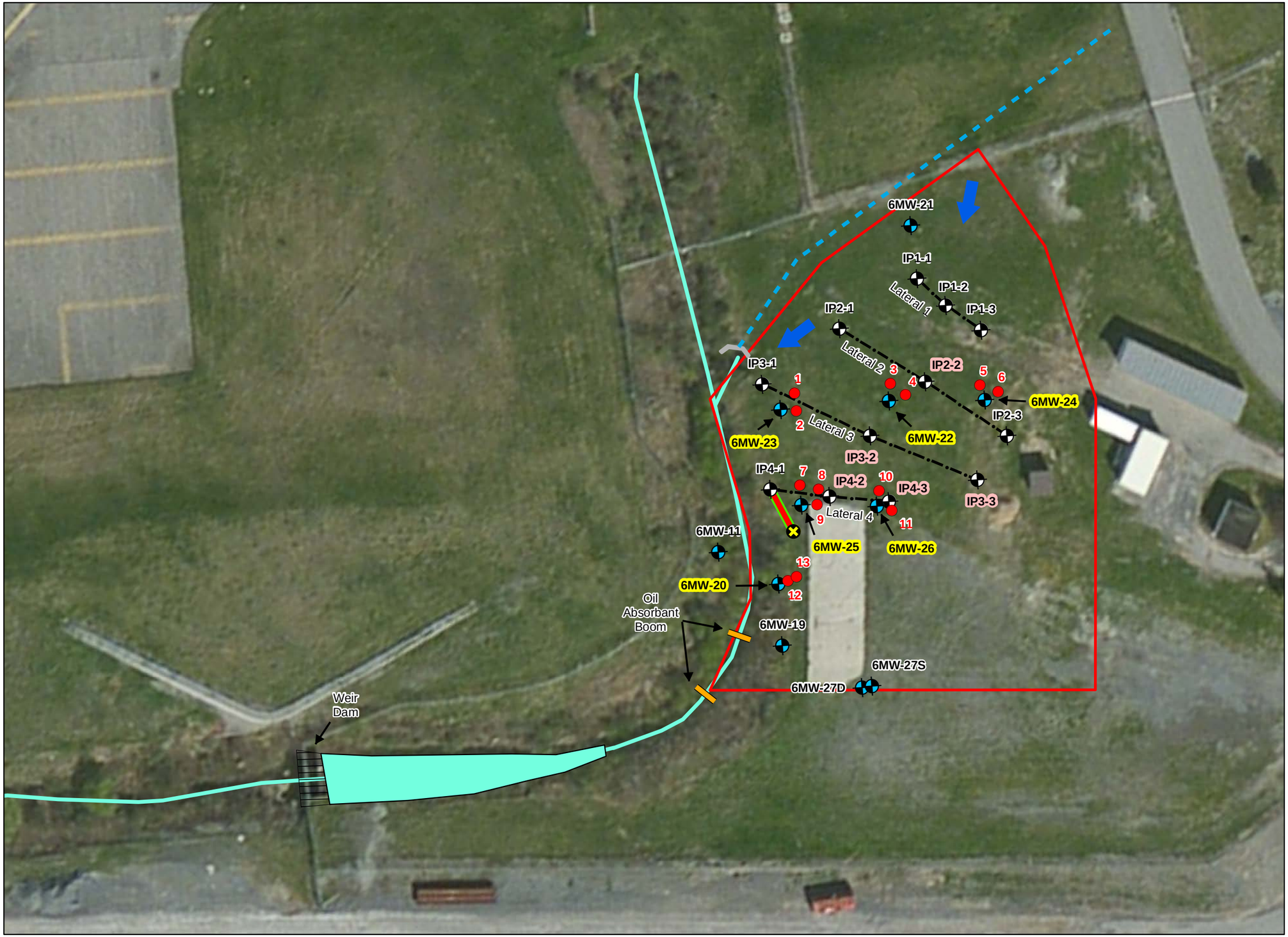
CLIENT QA SPECIALIST _____ DATE _____

Leidos H&S MANAGER SIGNATURE: **N/A - Existing AHAs encompass new scope.** DATE _____
(IF APPLICABLE)

Table 1. Summary of Proposed Injection Quantities at Site 6

Injection Well ID	Associated Monitoring Well	EVO (gal)	Water (gal)	DHC (L)
Permanent Injection Wells				
3	6MW-22	60	600	0
4	6MW-22	60	600	0
5	6MW-24	70	700	0
6	6MW-24	70	700	0
7	6MW-25	70	700	0
8	6MW-25	70	700	0
9	6MW-25	70	700	0
10	6MW-26	60	600	0
11	6MW-26	60	600	0
Subtotal Injected Volume		**590**	**5,900**	**0**

DHC = *Dehalococcoides* sp.
EVO = Emulsified vegetable oil.



LEGEND

- Injection Well
- Monitoring Well
- Infusion Point
- Collection Sump
- Interceptor Trench
- Horizontal Infusion Well
- Approximate Location of Stormwater Drain
- Drainage Ditch
- Oil Absorbant Boom
- Stormwater Outfall
- Site 6 Boundary
- General Groundwater Flow Direction
- 6MW-24 Performance Monitoring Well
- IP2-2 2016 Infusion Injection Location

NOTES

1. Oil booms were placed in the drainage ditch downstream from southernmost injection point. Pumps and tanks were in place as a contingency measure downstream from the northernmost oil boom. The drainage ditch was monitored for 48 hours and no releases were observed.

0 20 40 80 Feet

1 inch = 50 feet

Data Sources:
Background: ESRI World Imagery (USDA NAIP, May 2015)

INJECTION WELLS
AND SAMPLE LOCATIONS FOR
SITE 6 REMEDIAL ACTION

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

FIGURE: 3-2 | DATE: 2/16/2017

PROJECT: \Eastern_IRP\6. GIS Files\Schenectady\Projects\RACR\Figure 3-2 Sample Locations For Site 6_11x17.mxd

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

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-24 (4'-9') µg/L

Sample Date	2013 Sep	2014 Aug	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	0.25 U	0.25 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
TCE	**12.0**	**10.0**	**6.8**	**5.9**	4.9 J	3.2 J	4.6 J	**6.9**
cis-1,2-DCE	**14.0**	**9.7**	**5.2**	4.8 J	**13**	3.6 J	3 J	4.7 J
VC	0.50 U	0.50 U	1.0 U	1.0 U	**4.8 J**	1.6 J	0.52 J	1.3 J

6MW-23 (4'-9') µg/L

Sample Date	2013 Sep	2014 Aug	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	**5.9**	**16.0**	**7.7**	3.0 J	0.31 J	0.81 J	1.5 J	1 U
TCE	3.0	**5.4**	3.8	1.7 J	0.34 J	0.79 J	1.1 J	0.8 J
cis-1,2-DCE	**18.0**	**18.0**	**15.0**	**13**	1.3 J	0.93 J	0.85 J	2.1 J
VC	**3.2**	**2.0**	1.2	1.0 U	**6.4**	1 U	1 U	1.6 J

6MW-25 (4'-9') µg/L

Sample Date	2013 Sep	2014 Sep	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	4.5	**52.0**	**47.0**	**20**	1 U	1 U	1 U	1 U
TCE	**5.0**	**8.1**	**10.0**	**5.8**	1 U	1 U	1 U	1 U
cis-1,2-DCE	**220.0**	**36.0**	**68.0**	**58**	0.7 J	1.5 J	1.6 J	**5.8**
VC	**79.0**	0.50 U	**5.8**	**21**	1 U	1 U	1.4 J	**66**

6MW-22 (4'-9') µg/L

Sample Date	2014 Dec	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	**6.5**	**6.8**	3.4 J	1.6 J	**5.2**	4.8 J	1.4 J
TCE	**7.0**	**7.0**	3.6 J	1.2 J	2.2 J	1.9 J	1.7 J
cis-1,2-DCE	**16.0**	**19.0**	**16**	**36**	1.6 J	2.5 J	3.3 J
VC	0.50 U	0.61 J	1.0 U	**9.3**	**2.5 J**	**2.3 J**	**2.3 J**

6MW-26 (4'-9') µg/L

Sample Date	2013 Sep	2014 Aug	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	2.7	3.2	2.7	1.2 J	1 U	1 U	1 U	1 U
TCE	3.0	3.1	1.9	1.1 J	0.32 J	1 U	0.33 J	0.6 J
cis-1,2-DCE	**16.0**	**11.0**	**5.3**	**6.6 J**	2.6 J	2.5 J	1.8 J	2.4 J
VC	2.0	2.3	1.0 U	1.0 U	1 U	1 U	0.88 J	1.8 J

6MW-20 (5'-15') µg/L

Sample Date	2013 Sep	2014 Aug	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	0.32 J	0.33 J	**5.2**	0.86 J	1 U	1 U	1 U	1 U
TCE	0.51 J	1.2	1.9	1.5 J	1 U	1 U	1 U	1 U
cis-1,2-DCE	**22.0**	**19.0**	**6.8**	**6.8**	4.4 J	3.1 J	1.7 J	0.46 J
VC	**2.6**	**4.3**	1.0 U	1.0 U	**3.6 J**	**2.3 J**	1.7 J	1 U

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

6MW-21
IP1-1
IP1-2
IP1-3
Lateral 1
IP2-1
Lateral 2
IP2-2
6MW-24
IP2-3
6MW-22
6MW-23
IP3-1
IP3-2
Lateral 3
IP3-3
IP4-1
Lateral 4
IP4-2
IP4-3
6MW-25
6MW-26
6MW-11
Non-Detect
6MW-20
6MW-19
6MW-27D
6MW-27S
Non-Detect
Non-Detect

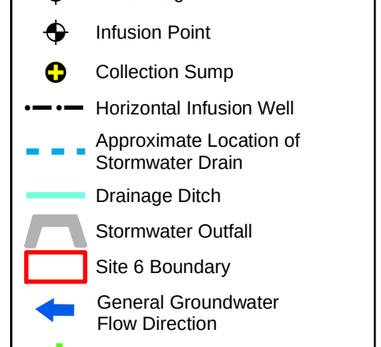
0 20 40 80 Feet
1 inch = 50 feet

Background: ESRI World Imagery (USDA NAIP, May 2015)

Legend

- Monitoring Well
- Infusion Point
- Collection Sump
- 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
- 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 sampling events were deleted so most recent data can be clearly inserted.



leidos

GROUNDWATER CONCENTRATIONS AT SITE 6, SEPTEMBER 2013 TO JULY 2017

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

FIGURE: 1-2 | DATE: 9/27/2017

PROJECT: \Eastern_IRP\6. GIS Files\Schenectady\Projects\LTM_Rpt_2017July\Figure 1-2 GW Concentrations at Site 6_11x17.mxd