



**New York State Department of
Environmental Conservation**

Site Number 7-04-009A

**Vestal Water Supply Site Quarterly
Report**

First Quarter 2014

August 2014



A handwritten signature in black ink, appearing to read "Bruce Nelson".

Bruce Nelson, CPG
Principal Geologist / Vice President

A handwritten signature in black ink, appearing to read "Jeremy Wyckoff".

Jeremy Wyckoff
Project Geologist

**Vestal Water Supply Site
Quarterly Report**

First Quarter 2014

Site Number 7-04-009A

Prepared for:
New York State Department of
Environmental Conservation

Prepared by:
Malcolm Pirnie, Inc.
855 Route 146
Suite 210
Clifton Park
New York 12065
Tel 518 250 7300
Fax 518 250 7301

Our Ref.:
00266401.0000

Date:
August 2014

*Malcolm Pirnie, Inc. was acquired by
ARCADIS in June 2009.*

1. Introduction	1
2. Site Description	2
3. Operation and Maintenance	3
3.1 Variable Frequency Drive	3
3.2 Flow Meter	3
3.3 Discharge Orifice	4
3.3.1 Orifice Configuration	4
3.3.2 Flow Readings	4
3.4 System Operation	4
3.5 Influent – Effluent Sampling	5
4. Groundwater Monitoring	7
5. Recommendations	8
6. Summary	9
7. References	10

Figures

- 2-1 Site Location
- 3-1 Well 1-1A Treatment Plant Flow
- 3-2 Well 1-1A Treatment Plant Total VOCs Concentration

Tables

- 3-1 Well 1-1A Flow Summary
- 3-2 Summary of Groundwater Treatment System VOCs (Influent)
- 3-3 Summary of Groundwater Treatment System VOCs (Effluent)

Appendices

- A Monthly Reports and System Operation and Maintenance Logs
- B Analytical Reporting Forms
- C Site Photographs



1. Introduction

The New York State Department of Environmental Conservation (NYSDEC) has issued a Work Assignment (# D007618-7) to Malcolm Pirnie, Inc. (Malcolm Pirnie) for Operation, Maintenance, and Monitoring at the Vestal Water Supply Site in New York State (Site # 7-04-009A). Malcolm Pirnie has prepared this Quarterly Report in accordance with the NYSDEC-approved Work Plan to summarize site activities.

2. Site Description

The Vestal Water Supply (Site 1-1) Site is located on Pumphouse Road, Vestal, Broome County, New York (Figure 2-1), along the southern bank of the Susquehanna River. Well 1-1 is located just south of the Susquehanna River and northwest of an industrial park located along Stage Road. Until 1980, Well 1-1 was the main source of water for Water District 1, which provides drinking water for several areas of the Town of Vestal. Currently, there are two other production wells, Wells 1-2A and 1-3 that function as the main source of water for Water District 1. Well 1-1A was installed in 1993 to replace Well 1-1 and is currently being used to pump and treat groundwater, which is then discharged to the Susquehanna River.

3. Operation and Maintenance

Malcolm Pirnie has maintained continuous operation of the groundwater treatment plant at the Vestal Water Supply Site. This includes the operation, maintenance, and influent/effluent sampling in accordance with the operations and maintenance (O&M) manual (Final Operation and Maintenance Manual, Long-Term Response, Operable Unit 1, Vestal Well 1-1 Site, Vestal, New York) (Tetra Tech EC, Inc., 2006) (Final O&M Manual). However, as indicated in the Work Assignment, no work was performed on the Vestal Water Supply (Site 1-1) soil vapor extraction system.

As part of managing the Vestal Water Supply Site, Malcolm Pirnie has a subcontract with Environmental Compliance, Inc. (ECI), who has unique knowledge of operating the groundwater treatment plant. ECI provides materials, labor, equipment, and supervision to maintain continuous operation of the groundwater treatment plant.

3.1 Variable Frequency Drive

A variable frequency drive (VFD) was installed in February 2009 to provide soft-start operation for the Well 1-1A replacement well pump motor and reduced torque on the Certa-Lock® PVC drop pipe. The VFD also provides energy savings by allowing the well pump motor to be operated at a reduced speed. The current VFD setting is 50 hertz.

3.2 Flow Meter

As discussed in the Third and Fourth Quarter 2010 Quarterly Report (Malcolm Pirnie, 2010) the digital flow meter readings for Well 1-1A may be understated and the ECI Monthly Reports and System O&M Logs presented estimated adjusted values. The estimated adjusted flow values for July through December 2010 were calculated by adding an additional 150 gallons per minute (GPM) to the flow displayed on the digital flow meter. The adjustment value was based on the difference between the flow calculated using the manufacturer's pump performance curve, system operating pressure, and pumping level compared to the reading on the digital flow meter. Following discussions with ECI in April 2011, and to be consistent with historical reporting formats, the Monthly Reports and System O&M logs will no longer present the adjusted flow values. Therefore, the flow measurements presented in the Monthly Report and System O&M Logs (Appendix A) are direct readings from the digital flow meter.

3.3 Discharge Orifice

A temporary circular weir orifice (orifice) was installed in the discharge outlet for the Well 1-1A treatment plant on July 18, 2012 to provide a better estimate of flow through the treatment plant. Flow data measured from the orifice will be used to support the NYSDEC Remedial System Optimization (RSO) evaluation.

3.3.1 Orifice Configuration

The orifice was constructed using removable five or six inch inside-diameter (ID) orifice plates inserted into a 10 inch ID PVC outlet pipe. Details of the installation were provided in the Third Quarter 2013 Report and Annual Groundwater Monitoring Summary (Malcolm Pirnie, 2013). Flow through the orifice is calculated using the following equation from Driscoll, 1986:

$$Q = CA\sqrt{2gh}$$

Where:

Q = Flow (gallons per minute);

C = Correction factor based on diameter of the orifice and orifice discharge pipe;

A = Area of orifice in square inches;

g = acceleration due to gravity (feet per second squared); and

h = height of water (inches) in the piezometer tube

3.3.2 Flow Readings

The orifice plate was removed from the outlet pipe during winter months to reduce the potential for the outlet to freeze. Therefore, no flow readings were recorded during the first quarter 2014 operating period.

3.4 System Operation

The groundwater treatment system was shut down and winterized on February 28, 2014 to support the RSO evaluation. The system will be shut down for a period of up to one year while the current remedy is being assessed. The treatment plant was

winterized by draining water from all above-grade water lines for Well 1-1A, air stripper, clear well pump, and municipal water supply potable water connections. The discharge orifice (described in Section 3.3) was removed from the outlet pipe and the outlet flap/valve was cleaned and checked for proper operation. Lock-out/Tag-out devices were applied to the electrical disconnect switches for Well 1-1A and the air stripper blower to prevent activation during the shutdown.

Table 3-1 and Figure 3-1 summarize groundwater treatment system flow rates from the Monthly Reports and System O&M Logs. As shown in Table 3-1, the groundwater treatment system flow rate for Well 1-1A increased slightly from an average of 146 GPM in December 2013 to an average of 153 GPM in January 2014. The average flow rate during February 2014 decreased to 140 GPM. As indicated above, the treatment plant was shut down on February 28, 2014 to support the RSO. As shown in Table 3-1, approximately 12,475,000 gallons of water were treated during the first quarter 2014 operating period. As shown in the Monthly Reports and System O&M logs, the treatment system ran without interruption in January and February 2014.

3.5 Influent – Effluent Sampling

First quarter 2014 influent and effluent groundwater samples were collected from the Well 1-1A treatment system in accordance with the Work Plan. Influent and effluent groundwater samples were sent to TestAmerica Laboratories following chain-of-custody protocols for analysis of volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260. At the request of USEPA, the VOC analyte list was expanded in June 2013 to include 1,2,4 trimethylbenzene and 1,3,5 trimethylbenzene; methyl tert-butyl ether (MTBE) was also added. The laboratory analytical reporting forms are provided in Appendix B. The laboratory analytical data for the treatment plan samples are summarized in Tables 3-2 (influent VOCs) and Table 3-3 (effluent VOCs); Figure 3-2 presents the Well 1-1A treatment plant total influent VOC concentrations over time.

As shown in Table 3-2, influent sample concentrations of 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2 DCE), and trichloroethene (TCE) are consistent with previous sampling results and exceed the corresponding NYSDEC Class GA Standards.

As shown in Table 3-2, MTBE was detected in the January and February 2014 influent samples from Well 1-1A at concentrations of 2.2 ug/L and 1.9 ug/L, respectively. Table

3-4 shows that these concentrations are less than the corresponding NYSDEC Class GA Standard of 10 ug/L.

Table 3-3 shows that cis-1,2-DCE was detected in the January (7.8 ug/L) and February (9.6 ug/L) 2014 post-treatment effluent samples at concentrations greater than the respective NYSDEC Class GA Standard of 5 ug/L. As shown in Table 3-3, 1,1,1 TCA, 1,1 DCA, TCE, and MTBE were also detected in the first quarter 2014 post-treatment effluent samples. However, as shown in Table 3-3, none of these concentrations exceeded the respective NYSDEC Class GA Standards.

Post-treatment effluent samples from the Well 1-1A treatment plant indicate that the air stripper is no longer capable of removing VOCs to concentrations less than Class GA Standards. The air stripper was inspected on March 21, 2014 by removing the inspection cover for the air stripper tower packing media. During the inspection, significant calcium carbonate precipitate was observed in the tower and on the packing media. Photographs taken during the inspection are provided in Appendix C. Based on the detection of VOCs in the post-treatment effluent samples at concentrations greater than the respective NYSDEC Class GA Standards, and precipitate accumulation observed in the air stripper tower, the air stripper will require cleaning and/or replacement of the tower packing media before the system can be returned to service.

Based on influent sample concentrations, post-treatment effluent sample concentrations (i.e. breakthrough), and total flow volumes from the Well 1-1A treatment system, approximately 24 pounds of VOCs were removed by the treatment system between January and February, 2014.

4. Groundwater Monitoring

At the direction of the NYSDEC, the annual groundwater monitoring event and RSO baseline groundwater sampling events were combined. New and existing groundwater monitoring wells were sampled in accordance with the RSO Work Plan on February 20, 2014. The results of the sampling event will be presented in the RSO Quarterly Report. The next sampling event will be conducted during the second quarter 2014 to support the RSO assessment.

5. Recommendations

Recommendations for revised instrumentation and controls; replacement of the discharge line from the clear well to the outfall; evaluation of well pump corrosion; and routine well development have been presented to the NYSDEC in the Quarterly Report and Annual Groundwater Monitoring Summary (Malcolm Pirnie, 2013).

The air stripper tower should be cleaned and/or the tower packing media replaced before the treatment system is placed back in service.

6. Summary

The Vestal Well 1-1A groundwater treatment operated without interruption between January and February, 2014. The treatment system was shut down and winterized on February 28, 2014 to support the RSO evaluation. Total flow through the treatment system between January and February 2014 was approximately 12.5 million gallons. Based on monthly influent and effluent sampling, the air stripper is no longer capable of removing the total VOC mass extracted from the capture zone. Based on a visual inspection of the air stripper tower, the packing media have a significant accumulation of calcium carbonate precipitate, reducing the the VOC removal capability of the air stripper. Approximately 24 pounds of VOCs were removed by the treatment system between January and February, 2014.

The combined annual groundwater monitoring event and baseline RSO sampling was conducted on February 20, 2014. Results from the sampling will be presented in the RSO Quarterly Report. The next RSO sampling is anticipated to occur during the second quarter 2014.

Recommendations for revised instrumentation and controls; replacement of the discharge line; evaluation of well pump corrosion; and routine well development have been presented to the NYSDEC.

The air stripper tower will have to be cleaned before the treatment system can be returned to service.

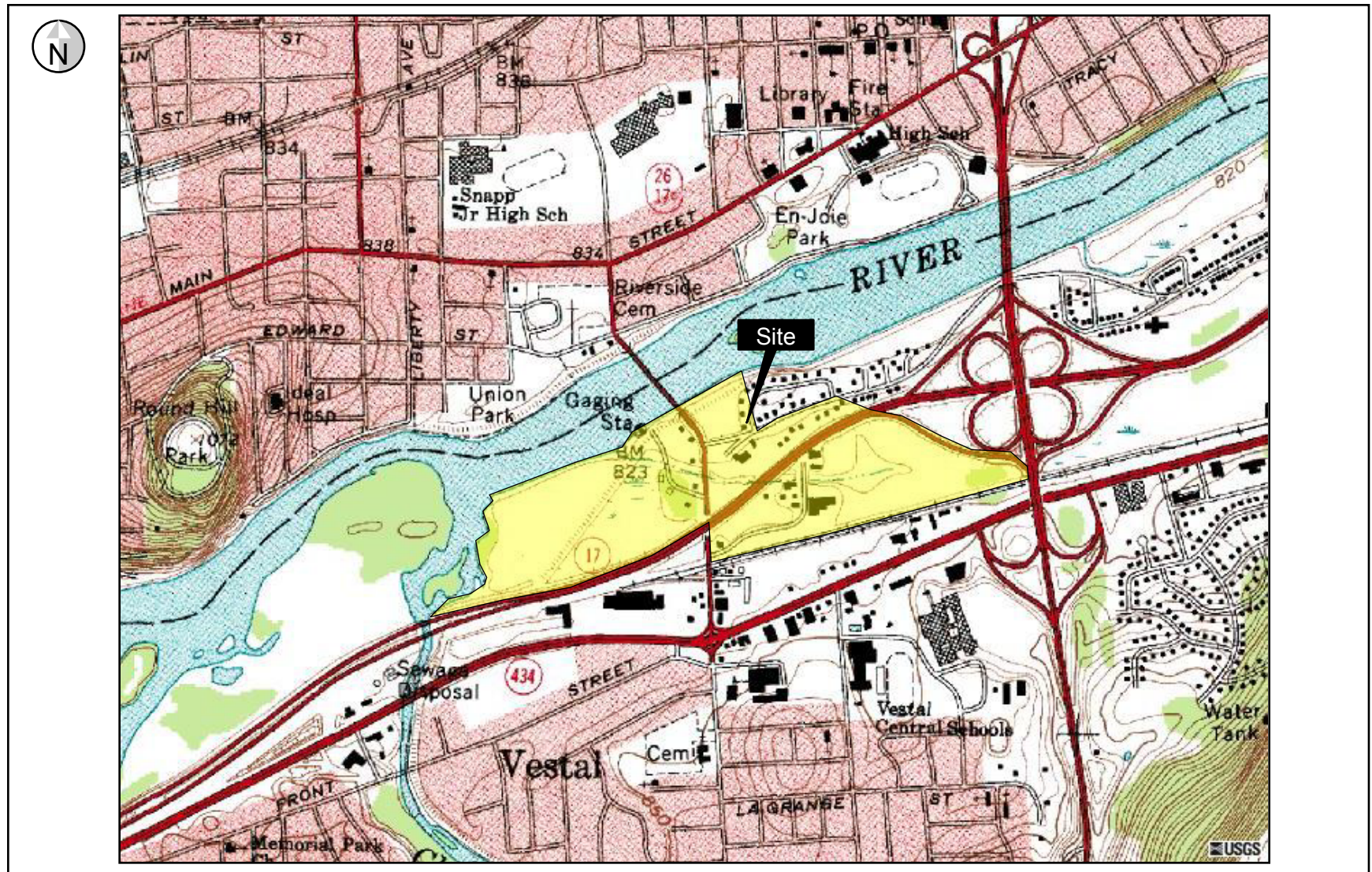
7. References

Driscoll, Fletcher. G, 1986, Groundwater and Wells: A Comprehensive Study of Groundwater and the Technologies used to Locate, Extract, Treat, and Protect this Resource. Johnson Screens, St. Paul, Minnesota.

Malcolm Pirnie, 2010, Quarterly Report, Third and Fourth Quarter 2010, Vestal Water Supply Site, Site Number 7-04-009A.

Malcolm Pirnie, 2013, Quarterly Report and Annual Groundwater Monitoring Summary, Third Quarter 2012, Vestal Water Supply Site, Site Number 7-04-009A.

Tetra Tech EC, Inc., 2006, Final Operation and Maintenance Manual, Long-Term Response, Operable Unit 1, Vestal Well 1-1 Site, Vestal, New York.



Source: USGS 7.5-minute Series Topographic Quadrangle, Endicott (1988).



Figure 3-1
Well 1-1A Treatment Plant Flow
Vestal Water Supply Site
NYSDEC Site Number 7-04-009A

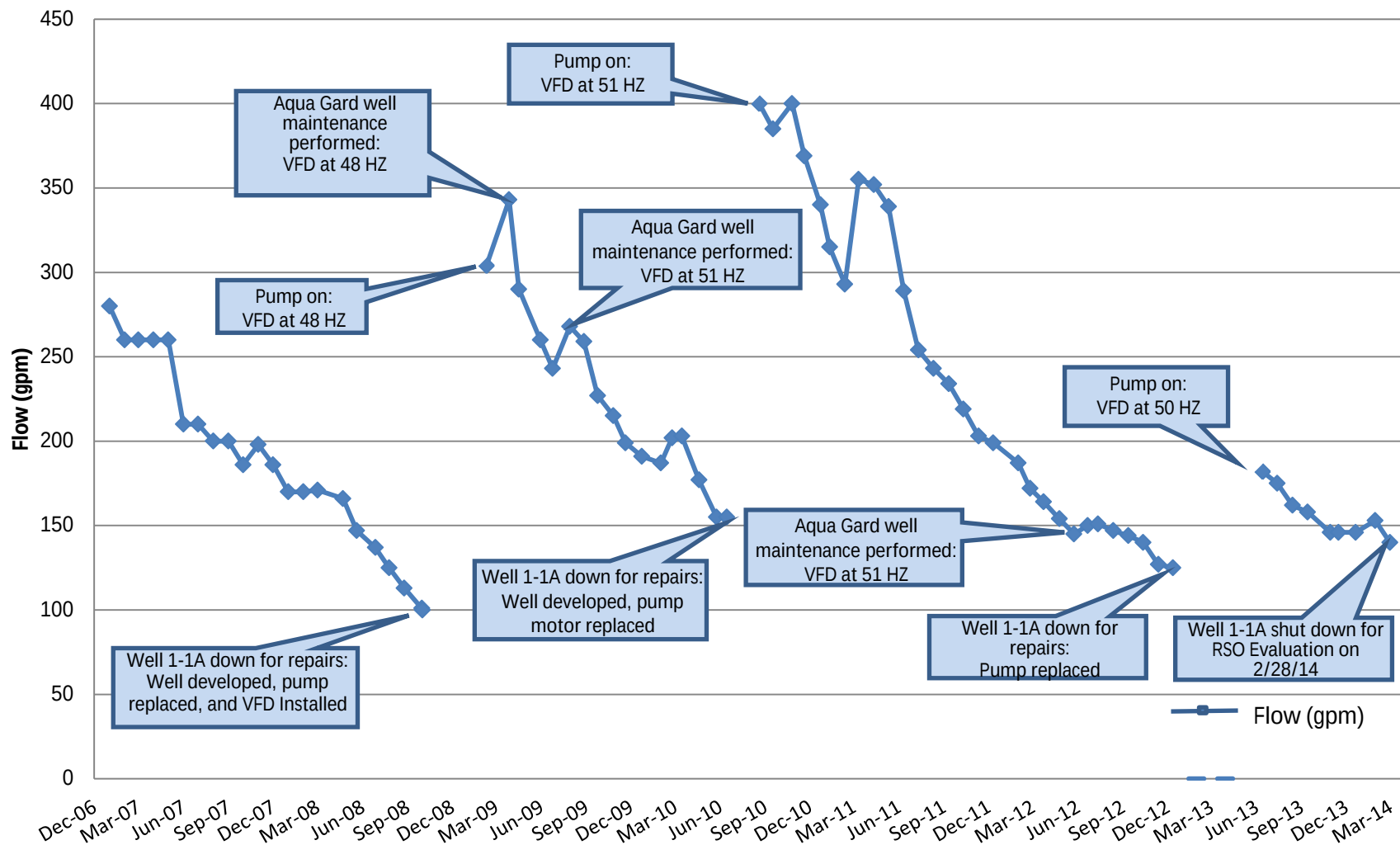




Figure 3-2
Well 1-1A Treatment Plant Total VOCs Concentrations
Vestal Water Supply Site
NYSDEC Site Number 7-04-009A

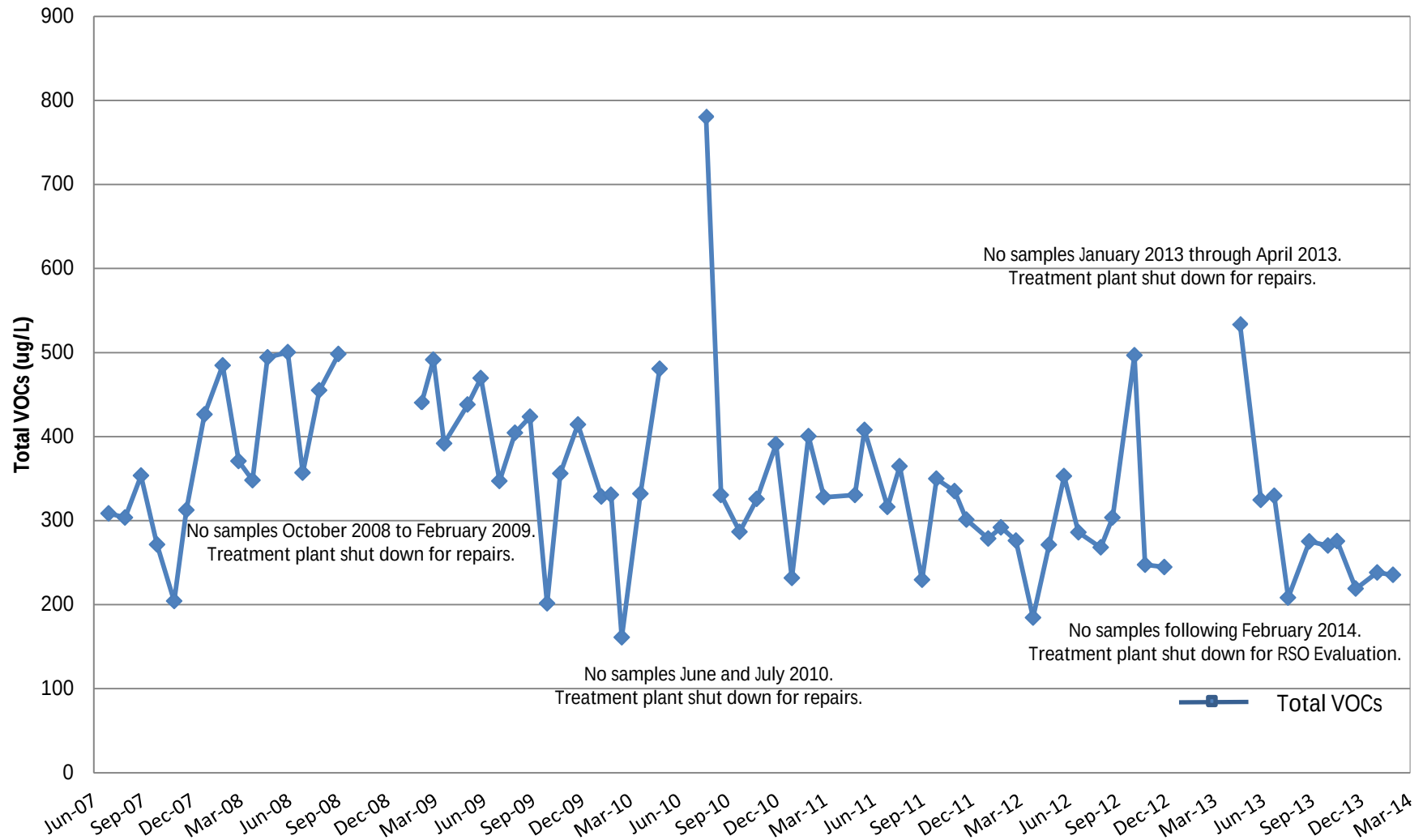


TABLE 3-1
WELL 1-1A FLOW SUMMARY
VESTAL WATER SUPPLY
VESTAL, NEW YORK
NYSDEC SITE NO. 7-04-009A

Date	System Operation ⁽¹⁾ (days/month)	Pumping Rate ⁽¹⁾ (gpm)	Total Flow ⁽²⁾ (gallons)	Quarterly Flow (gallons)
January-07	31	280	12,499,200	33,840,000
February-07	28	260	10,483,200	
March-07	29 (3)	260	10,857,600	
April-07	30	260	11,232,000	31,910,400
May-07	31	260	11,606,400	
June-07	30	210	9,072,000	
July-07	31	210	9,374,400	26,942,400
August-07	31	200	8,928,000	
September-07	30	200	8,640,000	
October-07	31	186	8,303,040	24,874,560
November-07	29	198	8,268,480	
December-07	31	186	8,303,040	
January-08	31	170	7,588,800	22,321,440
February-08	29	170	7,099,200	
March-08	31	171	7,633,440	
April-08	30	166	7,171,200	19,651,680
May-08	31	147	6,562,080	
June-08	30	137	5,918,400	
July-08	31	125	5,580,000	14,987,520
August-08	31	113	5,044,320	
September-08	30	101	4,363,200	
October-08	6 (4)	100	864,000	864,000
November-08	0 (4)	0	0	
December-08	0 (4)	0	0	
January-09	0 (4)	0	0	22,641,120
February-09	19 (4)	304	8,317,440	
March-09	29 (3)	343	14,323,680	
April-09	30	290	12,528,000	34,257,600
May-09	30 (5)	260	11,232,000	
June-09	30	243	10,497,600	
July-09	29 (4)	268	11,191,680	31,160,160
August-09	29 (5)	259	10,815,840	
September-09	28 (5)	227	9,152,640	
October-09	31	215	9,597,600	26,720,640
November-09	30 (5)	199	8,596,800	
December-09	31	191	8,526,240	

Total Flow (2007) 117,567,360
Total Flow (2008) 65,750,400
Total Flow (2009) 93,790,080

Notes:

- 1 - From Environmental Compliance, Inc. O&M Reports and Malcolm Pirnie, Inc. field notes.
 - 2 - Calculated assuming system operating 24-hours per day
 - 3 - System shut down for flooding
 - 4 - System shut down for repairs
 - 5 - System down due to power failure
- gpm - Gallons per minute

TABLE 3-1
WELL 1-1A FLOW SUMMARY
VESTAL WATER SUPPLY
VESTAL, NEW YORK
NYSDEC SITE NO. 7-04-009A

Date	System Operation ⁽¹⁾ (days/month)	Pumping Rate ⁽¹⁾ (gpm)	Total Flow ⁽²⁾ (gallons)	Quarterly Flow (gallons)
January-10	25 (3)	187	6,732,000	23,938,560
February-10	28	202	8,144,640	
March-10	31	203	9,061,920	
April-10	30	177	7,646,400	16,128,000
May-10	31	155	6,919,200	
June-10	7 (4)	155	1,562,400	
July-10	0 (4)	0	0	23,544,000
August-10	12 (4)	400	6,912,000	
September-10	30	385	16,632,000	
October-10	31	400	17,856,000	47,911,680
November-10	28 (5)	369	14,878,080	
December-10	31	340	15,177,600	
January-11	31	315	14,061,600	40,278,240
February-11	27 (5)	293	11,391,840	
March-11	29 (3)	355	14,824,800	
April-11	26 (3)	352	13,178,880	39,820,320
May-11	29 (3)	339	14,156,640	
June-11	30	289	12,484,800	
July-11	29 (5)	254	10,607,040	29,178,720
August-11	29 (3)	243	10,147,680	
September-11	25 (3)	234	8,424,000	
October-11	31	219	9,776,160	27,429,120
November-11	30	203	8,769,600	
December-11	31	199	8,883,360	
January-12	31	187	8,347,680	22,851,360
February-12	29	172	7,182,720	
March-12	31	164	7,320,960	
April-12	30	154	6,652,800	19,173,600
May-12	31	145	6,472,800	
June-12	28 (4)	150	6,048,000	
July-12	29 (5)	151	6,305,760	17,818,560
August-12	25 (4)	147	5,292,000	
September-12	30	144	6,220,800	
October-12	30 (storm)	140	6,048,000	17,114,400
November-12	30	127	5,486,400	
December-12	31	125	5,580,000	

Total Flow (2010) 111,522,240
Total Flow (2011) 136,706,400
Total Flow (2012) 76,957,920

Notes:

- 1 - From Environmental Compliance, Inc. O&M Reports and Malcolm Pirnie, Inc. field notes.
- 2 - Calculated assuming system operating 24-hours per day
- 3 - System shut down for flooding
- 4 - System shut down for repairs
- 5 - System down due to power failure
- gpm - Gallons per minute

TABLE 3-1
WELL 1-1A FLOW SUMMARY
VESTAL WATER SUPPLY
VESTAL, NEW YORK
NYSDEC SITE NO. 7-04-009A

Date	System Operation ⁽¹⁾ (days/month)	Pumping Rate ⁽¹⁾ (gpm)	Total Flow ⁽²⁾ (gallons)	Quarterly Flow (gallons)
January-13	0	0	0	0
February-13	0	0	0	
March-13	0	0	0	
April-13	0	0	0	
May-13	13	186	3,481,920	11,344,320
June-13	30	182	7,862,400	
July-13	31	175	7,812,000	21,641,760
August-13	31	162	7,231,680	
September-13	29 (5)	158	6,598,080	
October-13	30 (storm)	146	6,307,200	18,711,360
November-13	30	146	6,307,200	
December-13	29 (3)	146	6,096,960	
January-14	31	153	6,829,920	12,474,720
February-14	28	140	5,644,800	
March-14	0 (6)	0	0	
Total Flow (2013)			51,697,440	
Total Flow (2014)			12,474,720	

Notes:

- 1 - From Environmental Compliance, Inc. O&M Reports and Malcolm Pirnie, Inc. field notes.
- 2 - Calculated assuming system operating 24-hours per day
- 3 - System shut down for flooding
- 4 - System shut down for repairs
- 5 - System down due to power failure
- 6 - System off for RSO evaluation
- gpm - Gallons per minute

TABLE 3-2
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (INFLUENT)
VESTAL WATER SUPPLY
VESTAL, NEW YORK
NYSDEC SITE #7-04-009A

Sample ID Sampling Date Matrix Units	NYSDEC GA Standard ug/L	WELL 1A-INF 12/26/2012 WATER ug/L	WELL 1A-INF 5/17/2013 WATER ug/L	WELL 1A-INF 6/25/2013 WATER ug/L	WELL 1A-INF 7/20/2013 WATER ug/L	WELL 1A-INF 8/15/2013 WATER ug/L	WELL 1A-INF 9/24/2013 WATER ug/L	WELL 1A-INF 10/29/2013 WATER ug/L	WELL 1A-INF 11/15/2013 WATER ug/L	WELL 1A-INF 12/20/2013 WATER ug/L	WELL 1A-INF 1/29/2014 WATER ug/L	WELL 1A-INF 2/28/2014 WATER ug/L
VOCs												
1,1,1-Trichloroethane	5	130	280 E	170	170	99	140	140	140	110	120	120 E
1,1,2,2-Tetrachloroethane	5	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
1,1,2-Trichloroethane	1	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
1,1-Dichloroethane	5	18	37	23	24	17	19	19	20	17	18	17
1,1-Dichloroethene	5	12	44	17	18	8.6	18	14	16	10	9.7	9.3
1,2-Dichloroethane	0.6	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
1,2-Dichloropropane	5	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
1,2,4-Trimethylbenzene	5	NA	NA	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
1,3,5-Trimethylbenzene	5	NA	NA	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
2-Butanone (MEK)	50	20 U	20 U	10 U	10 U	20 U	20 U	20 U	20 U	20 U	20 U	10 U
2-Hexanone	50*	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U
4-Methyl-2-pentanone (MIBK)		10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U
Acetone	50*	20 U	20 U	10 U	10 U	20 U	20 U	20 U	20 U	20 U	20 U	10 U
Benzene	1	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Bromodichloromethane	50	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Bromoform	50*	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Bromomethane	5	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Carbon disulfide		2 U	5.9	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Carbon tetrachloride	5	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Chlorobenzene	5	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Chloroethane	5	2 U	2 U	0.79 J	2	2 U	2 U	2 U	2 U	2 U	2 U	0.52 J
Chloroform	7	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Chloromethane		2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	5	37	78	50	50	37	43	43	45	34	39	39
cis-1,3-Dichloropropene	0.4	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Dibromochloromethane	50	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Ethylbenzene	5	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Methyl tert-butyl ether	10	NA	NA	3.6	3.6	2.4	2.4	2.5	2.8	2.3	2.2	1.9
Methylene Chloride	5	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Styrene	5	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Tetrachloroethene	5	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Toluene	5	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
trans-1,2-Dichloroethene	5	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
trans-1,3-Dichloropropene	0.4	2 U	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Trichloroethene	5	42	74	49	52	37	46	44	45	39	43	43
Vinyl chloride	2	5.7	15	11	10	7.4	6.9	5.7	6.8	6.6	6.3	4.6
Xylenes, Total	5	4 U	4 U	2 U	3 U	6 U	6 U	4 U	4 U	4 U	4 U	4 U
Total VOCs		245	534	324	330	208	275	270	276	219	238	235

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.
- U - Not detected at the indicated concentration.
- J - Estimated concentration.
- B - Analyte found in associated blank as well as the sample.
- E - Concentration exceeds instrument calibration range.
- D - Laboratory Dilution.
- NA - Not Analyzed

TABLE 3-3
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (EFFLUENT)
VESTAL WATER SUPPLY
VESTAL, NEW YORK
NYSDEC SITE #7-04-009A

Sample ID Sampling Date Matrix Units	NYSDEC GA Standard ug/L	WELL 1A-EFF 12/26/2012 WATER ug/L	WELL 1A-EFF 5/17/2013 WATER ug/L	WELL 1A-EFF 6/25/2013 WATER ug/L	WELL 1A-EFF 7/2/2013 WATER ug/L	WELL 1A-EFF 8/15/2013 WATER ug/L	WELL 1A-EFF 9/24/2013 WATER ug/L	WELL 1A-EFF 10/29/2013 WATER ug/L	WELL 1A-EFF 11/15/2013 WATER ug/L	WELL 1A-EFF 12/20/2013 WATER ug/L	WELL 1A-EFF 1/29/2014 WATER ug/L	WELL 1A-EFF 2/28/2014 WATER ug/L
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.86 J	2.9	3.9
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.94 J	2.1	2.6
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5	NA	NA	1 U	1 U	1 U	U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone (MIBK)		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1.1	1.1	1.2	1 U	1.7	2.9	3.8	7.8	9.6
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	10	NA	NA	2	2	1.4	1.4	1.4	1.8	1.6	1.7	1.5
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.56 J	0.93 J	2.9	3.8
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	2 U	2 U	2 U	3 U	3 U	3 U	2 U	2 U	2 U	2 U	2 U

Notes

 - Concentration exceeds corresponding NYSDEC Class GA Standard.

U - Not detected at the indicated concentration.

J - Estimated concentration.

M - Manual integrated compound.

B - Analyte found in associated blank as well as the sample.

NA - Not Analyzed



Appendix A

Monthly Reports and System
Operation and Maintenance Logs



ENVIRONMENTAL COMPLIANCE, INC.

101 Mount Bethel Rd.
Warren, New Jersey 07059
908-754-1700
908-754-1866 (fax)
<http://www.eci-nj.com>
j.jimenez@eci-nj.com (email)

**Vestal Well 1-1 Monthly Report
January 2014**

SECTION I – SUMMARY OF ACTIVITIES

System operated continuously entire month without incident. System operated at 150 to 154 GPM.

SECTION II – MONTHLY OPERATIONS & MAINTENANCE

- Daily routine inspection of property
- Checked and replaced belts
- Lubricated equipment, as needed
- Changed filters
- Checked and cleaned grounds.

SECTION III – REPAIR WORK COMPLETED

- None

SECTION IV – REPAIR WORK NEEDED

- None

SECTION V – RECOMMENDATIONS

- None



ENVIRONMENTAL COMPLIANCE, INC.

101 Mount Bethel Rd.
Warren, New Jersey 07059
908-754-1700
908-754-1866 (fax)
<http://www.eci-nj.com>
j.jimenez@eci-nj.com (email)

**Vestal Well 1-1 Monthly Report
February 2014**

SECTION I – SUMMARY OF ACTIVITIES

System operated continuously entire month without incident. System operated at 139 to 140 GPM. System turned off on February 28, 2014 at request of client. O&M terminated at request of client until further notice.

SECTION II – MONTHLY OPERATIONS & MAINTENANCE

- Daily routine inspection of property
- Checked and replaced belts
- Lubricated equipment, as needed
- Changed filters
- Checked and cleaned grounds.

SECTION III – REPAIR WORK COMPLETED

- None

SECTION IV – REPAIR WORK NEEDED

- None

SECTION V – RECOMMENDATIONS

- None

ENVIRONMENTAL COMPLIANCE, INC.				VESTAL WELL 1-1 MONTHLY O & M LOG																	January 2014										
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
TIME																															
WELL HOUSE	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X
PRE LUBE LINE																															
PUMP MOTOR OIL																															
CHEMICAL BUILDING																															
SUMP PUMP	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X
DISCHARGE VALVES	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X
FLOW METER (GPM)*						154										154						152						150			
CHLORINE ROOM																															
GENERAL CONDITION	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X
TOWER PACKING INSP.	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X
MAIN PUMPHOUSE																															
BLOWER AND MOTOR	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X
BLOWER AIR FILTERS	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X
ALARM / CONTROL PANEL																															
CLEARWELL LEVEL	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X
OTHER*																															
GROUNDS	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X
INGROUND TANK LEVEL	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X

*Unadjusted Meter Reading

ENVIRONMENTAL COMPLIANCE, INC.										VESTAL WELL 1-1 MONTHLY O & M LOG												February 2014									
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
TIME																															
WELL HOUSE	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X			
PRE LUBE LINE																															
PUMP MOTOR OIL																															
CHEMICAL BUILDING																															
SUMP PUMP	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X			
DISCHARGE VALVES	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X			
FLOW METER (GPM)*						140						140							139							139					
CHLORINE ROOM																															
GENERAL CONDITION	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X			
TOWER PACKING INSP.	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X			
MAIN PUMPHOUSE																															
BLOWER AND MOTOR	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X			
BLOWER AIR FILTERS	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X			
ALARM / CONTROL PANEL																															
CLEARWELL LEVEL	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X			
OTHER*																															
GROUNDS	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X			
INGROUND TANK LEVEL	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X			

*Unadjusted Meter Reading

Notes:

System shutdown 2/28/2014



Appendix **B**

Analytical Reporting Forms

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-55128-2

Client Project/Site: Vestal Water Supply RSO

For:

ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Bruce Nelson



Authorized for release by:

2/28/2014 4:07:35 PM

Candace Fox, Manager of Project Management

(716)504-9844

candace.fox@testamericainc.com

LINKS

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results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	13
Surrogate Summary	65
QC Sample Results	67
QC Association Summary	79
Lab Chronicle	81
Certification Summary	86
Method Summary	87
Sample Summary	88
Chain of Custody	89
Receipt Checklists	94



Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Job ID: 480-55128-2

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-55128-2

Comments

No additional comments.

Receipt

The samples were received on 2/24/2014 4:37 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 2.4° C.

GC/MS VOA

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) for batch 167465 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) in batch 167565 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: (480-55128-25 MS), (480-55128-25 MSD), 4009-23D-022014 (480-55128-23), 4009-25D-022014 (480-55128-26), 4009-25S-022014 (480-55128-25), 4009-26-022014 (480-55128-27). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: ERT-4S-022014 (480-55128-40). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) for batch 167657 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 1-1A(INF)-022114 (480-55128-50), 4009-29I-022014 (480-55128-33), 4009-29S-022014 (480-55128-32), DUP-02-022014 (480-55128-45), ERT-1I-022014 (480-55128-35), ERT-3D-022014 (480-55128-39), ERT-3I-022014 (480-55128-38), ERT-3S-022014 (480-55128-37), ERT-4D-022014 (480-55128-42), ERT-4I-022014 (480-55128-41). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: ERT-4S-022014 (480-55128-40). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: Methylene Chloride; 1,1,2 Trichloroethane; 1,1-Dichloroethene; Methylcyclohexane were detected in the following sample at a concentration above the linear range of the initial calibration curve: ERT-4S-022014 (480-55128-40). Due to the high dilution dictated by other target compounds, these analytes were diluted out in the re-analysis of the sample. Therefore, the values being reported are from the original analysis and are qualified with E flags.

No other analytical or quality issues were noted.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-22-022014

Lab Sample ID: 480-55128-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12		10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.69	J	1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	0.55	J	1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-23S-022014

Lab Sample ID: 480-55128-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.2		1.0	0.38	ug/L	1		8260C	Total/NA
1,2,3-Trimethylbenzene	1.8		1.0	0.26	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	8.6		1.0	0.75	ug/L	1		8260C	Total/NA
1,3,5-Trimethylbenzene	4.4		1.0	0.77	ug/L	1		8260C	Total/NA
Acetone	6.1	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	1.8		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.2		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	0.78	J	1.0	0.18	ug/L	1		8260C	Total/NA
Isopropylbenzene	5.3		1.0	0.79	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.69	J	1.0	0.16	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.4		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	1.6		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	0.93	J	1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-23D-022014

Lab Sample ID: 480-55128-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	130	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane	24		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	210	E	1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	31		1.0	0.29	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.43	J	1.0	0.21	ug/L	1		8260C	Total/NA
Acetone	8.3	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroethane	11		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	490	E	1.0	0.81	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.25	J	1.0	0.16	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.3		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	8.7		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	580	E	1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	130		10	8.2	ug/L	10		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	23		10	3.1	ug/L	10		8260C	Total/NA
1,1-Dichloroethane - DL	250		10	3.8	ug/L	10		8260C	Total/NA
1,1-Dichloroethene - DL	29		10	2.9	ug/L	10		8260C	Total/NA
Chloroethane - DL	9.3	J	10	3.2	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	580		10	8.1	ug/L	10		8260C	Total/NA
Trichloroethene - DL	9.6	J	10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	630		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: 4009-24-022014

Lab Sample ID: 480-55128-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.4	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	9.3	J	10	3.0	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-25S-022014

Lab Sample ID: 480-55128-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1600	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane	31		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	87		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	230	E	1.0	0.29	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	140	E	1.0	0.81	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.9		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	32		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	3.7		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	2600		40	33	ug/L	40		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	32	J	40	12	ug/L	40		8260C	Total/NA
1,1-Dichloroethane - DL	110		40	15	ug/L	40		8260C	Total/NA
1,1-Dichloroethene - DL	210		40	12	ug/L	40		8260C	Total/NA
cis-1,2-Dichloroethene - DL	180		40	32	ug/L	40		8260C	Total/NA
Trichloroethene - DL	44		40	18	ug/L	40		8260C	Total/NA

Client Sample ID: 4009-25D-022014

Lab Sample ID: 480-55128-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1400	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane	32		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	74		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	160	E	1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	6.0	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	76		1.0	0.81	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.0		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	16		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	1.4		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	1900		20	16	ug/L	20		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	32		20	6.2	ug/L	20		8260C	Total/NA
1,1-Dichloroethane - DL	82		20	7.6	ug/L	20		8260C	Total/NA
1,1-Dichloroethene - DL	120		20	5.8	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene - DL	82		20	16	ug/L	20		8260C	Total/NA
Trichloroethene - DL	18	J	20	9.2	ug/L	20		8260C	Total/NA

Client Sample ID: 4009-26-022014

Lab Sample ID: 480-55128-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	98		1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane	7.7		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	27		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	6.0		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	10		10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.81	J	1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	110	E	1.0	0.81	ug/L	1		8260C	Total/NA
Dichlorodifluoromethane	3.9		1.0	0.68	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.1		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	45		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	12		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	100		2.0	1.6	ug/L	2		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	8.4		2.0	0.62	ug/L	2		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-26-022014 (Continued)

Lab Sample ID: 480-55128-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane - DL	29		2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene - DL	6.6		2.0	0.58	ug/L	2		8260C	Total/NA
Acetone - DL	12	J	20	6.0	ug/L	2		8260C	Total/NA
Chloroethane - DL	0.74	J	2.0	0.64	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene - DL	120		2.0	1.6	ug/L	2		8260C	Total/NA
Dichlorodifluoromethane - DL	3.7		2.0	1.4	ug/L	2		8260C	Total/NA
Tetrachloroethene - DL	1.1	J	2.0	0.72	ug/L	2		8260C	Total/NA
Trichloroethene - DL	49		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride - DL	12		2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: 4009-27S-022014

Lab Sample ID: 480-55128-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	54		1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane	2.8		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.9		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	5.7		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	9.9	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	18		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	25		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27I-022014

Lab Sample ID: 480-55128-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.8	J	10	3.0	ug/L	1		8260C	Total/NA
Trichloroethene	1.4		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27D-022014

Lab Sample ID: 480-55128-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.8	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-28-022014

Lab Sample ID: 480-55128-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.3		1.0	0.82	ug/L	1		8260C	Total/NA
Acetone	7.9	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-29S-022014

Lab Sample ID: 480-55128-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	660	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane	12		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	120	E	1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	92		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	6.0	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroethane	2.9		1.0	0.32	ug/L	1		8260C	Total/NA
Chloroform	0.69	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	240	E	1.0	0.81	ug/L	1		8260C	Total/NA
Dichlorodifluoromethane	1.3		1.0	0.68	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-29S-022014 (Continued)

Lab Sample ID: 480-55128-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.95	J	1.0	0.36	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.5		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	270	E	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	43		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	710		10	8.2	ug/L	10		8260C	Total/NA
1,1-Dichloroethane - DL	130		10	3.8	ug/L	10		8260C	Total/NA
1,1-Dichloroethene - DL	78		10	2.9	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	260		10	8.1	ug/L	10		8260C	Total/NA
Trichloroethene - DL	300		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	44		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: 4009-29I-022014

Lab Sample ID: 480-55128-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1400	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloroethane	0.86	J	1.0	0.23	ug/L	1		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane	21		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	83		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	200	E	1.0	0.29	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.41	J	1.0	0.21	ug/L	1		8260C	Total/NA
Acetone	11		10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.59	J	1.0	0.41	ug/L	1		8260C	Total/NA
Chlorobenzene	1.6		1.0	0.75	ug/L	1		8260C	Total/NA
Chloroethane	5.0		1.0	0.32	ug/L	1		8260C	Total/NA
Chloroform	1.1		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	360	E	1.0	0.81	ug/L	1		8260C	Total/NA
Dichlorodifluoromethane	1.2		1.0	0.68	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.1		1.0	0.36	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	3.4		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	390	E	1.0	0.46	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	0.94	J	1.0	0.88	ug/L	1		8260C	Total/NA
Vinyl chloride	85		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	1700		25	21	ug/L	25		8260C	Total/NA
1,1-Dichloroethane - DL	81		25	9.5	ug/L	25		8260C	Total/NA
1,1-Dichloroethene - DL	150		25	7.3	ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene - DL	400		25	20	ug/L	25		8260C	Total/NA
Trichloroethene - DL	450		25	12	ug/L	25		8260C	Total/NA
Vinyl chloride - DL	84		25	23	ug/L	25		8260C	Total/NA

Client Sample ID: 4009-29D-022014

Lab Sample ID: 480-55128-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.1		1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	6.9	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.4		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	1.8		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	4.7		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: ERT-1I-022014

Lab Sample ID: 480-55128-35

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-1I-022014 (Continued)

Lab Sample ID: 480-55128-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.1		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.99	J	1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	4.8	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	740	E	1.0	0.81	ug/L	1		8260C	Total/NA
Toluene	0.57	J	1.0	0.51	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.5		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	1.9		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	11		1.0	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane - DL	4.3	J	10	3.8	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	990		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	10		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: ERT-1D-022014

Lab Sample ID: 480-55128-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.1	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	7.7		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	1.6		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: ERT-3S-022014

Lab Sample ID: 480-55128-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3600	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane	3.0		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	550	E	1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	1000	E	1.0	0.29	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	1.2		1.0	0.21	ug/L	1		8260C	Total/NA
Acetone	5.8	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroethane	76		1.0	0.32	ug/L	1		8260C	Total/NA
Chloroform	2.4		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	23		1.0	0.81	ug/L	1		8260C	Total/NA
Methylene Chloride	8.6		1.0	0.44	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.3		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	28		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	1.9		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	5100		100	82	ug/L	100		8260C	Total/NA
1,1-Dichloroethane - DL	570		100	38	ug/L	100		8260C	Total/NA
1,1-Dichloroethene - DL	720		100	29	ug/L	100		8260C	Total/NA

Client Sample ID: ERT-3I-022014

Lab Sample ID: 480-55128-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2100	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane	1.6		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	140	E	1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	270	E	1.0	0.29	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	3.1	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	8.8	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroethane	3.3		1.0	0.32	ug/L	1		8260C	Total/NA
Chloroform	0.82	J	1.0	0.34	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-3I-022014 (Continued)

Lab Sample ID: 480-55128-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	1.9		1.0	0.35	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.9		1.0	0.81	ug/L	1		8260C	Total/NA
Methylene Chloride	0.77	J	1.0	0.44	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.3		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	8.3		1.0	0.46	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	2800		50	41	ug/L	50		8260C	Total/NA
1,1-Dichloroethane - DL	150		50	19	ug/L	50		8260C	Total/NA
1,1-Dichloroethene - DL	160		50	15	ug/L	50		8260C	Total/NA

Client Sample ID: ERT-3D-022014

Lab Sample ID: 480-55128-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	16		1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1100	E	1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	8.3		1.0	0.29	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	2.3		1.0	0.21	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	1.4	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	7.1	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroethane	21		1.0	0.32	ug/L	1		8260C	Total/NA
Methylene Chloride	0.61	J	1.0	0.44	ug/L	1		8260C	Total/NA
Vinyl chloride	2.1		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	16	J	20	16	ug/L	20		8260C	Total/NA
1,1-Dichloroethane - DL	1700		20	7.6	ug/L	20		8260C	Total/NA
Chloroethane - DL	21		20	6.4	ug/L	20		8260C	Total/NA

Client Sample ID: ERT-4S-022014

Lab Sample ID: 480-55128-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	60000	E	5.0	4.1	ug/L	5		8260C	Total/NA
1,1,2,2-Tetrachloroethane	49		5.0	1.1	ug/L	5		8260C	Total/NA
1,1,2-Trichloroethane	1500	E	5.0	1.2	ug/L	5		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane	96		5.0	1.6	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	290		5.0	1.9	ug/L	5		8260C	Total/NA
1,1-Dichloroethene	36000	E	5.0	1.5	ug/L	5		8260C	Total/NA
1,2,3-Trimethylbenzene	30		5.0	1.3	ug/L	5		8260C	Total/NA
1,2,4-Trichlorobenzene	26		5.0	2.1	ug/L	5		8260C	Total/NA
1,2,4-Trimethylbenzene	24		5.0	3.8	ug/L	5		8260C	Total/NA
1,2-Dichlorobenzene	42		5.0	4.0	ug/L	5		8260C	Total/NA
1,2-Dichloroethane	64		5.0	1.1	ug/L	5		8260C	Total/NA
1,3,5-Trimethylbenzene	4.0	J	5.0	3.9	ug/L	5		8260C	Total/NA
1,4-Dichlorobenzene	7.8		5.0	4.2	ug/L	5		8260C	Total/NA
Benzene	14		5.0	2.1	ug/L	5		8260C	Total/NA
Bromodichloromethane	11		5.0	2.0	ug/L	5		8260C	Total/NA
Chloroform	120		5.0	1.7	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	110		5.0	4.1	ug/L	5		8260C	Total/NA
Ethylbenzene	23		5.0	3.7	ug/L	5		8260C	Total/NA
Methylcyclohexane	610	E	5.0	0.80	ug/L	5		8260C	Total/NA
Methylene Chloride	670	E	5.0	2.2	ug/L	5		8260C	Total/NA
Tetrachloroethene	120		5.0	1.8	ug/L	5		8260C	Total/NA
Toluene	460		5.0	2.6	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-4S-022014 (Continued)

Lab Sample ID: 480-55128-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	59000	E	5.0	2.3	ug/L	5		8260C	Total/NA
Xylenes, Total	110		10	3.3	ug/L	5		8260C	Total/NA
1,1,1-Trichloroethane - DL	310000		10000	8200	ug/L	10000		8260C	Total/NA
Trichloroethene - DL	510000		10000	4600	ug/L	10000		8260C	Total/NA

Client Sample ID: ERT-4I-022014

Lab Sample ID: 480-55128-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4800		80	66	ug/L	80		8260C	Total/NA
1,1-Dichloroethane	150		80	30	ug/L	80		8260C	Total/NA
1,1-Dichloroethene	310		80	23	ug/L	80		8260C	Total/NA

Client Sample ID: ERT-4D-022014

Lab Sample ID: 480-55128-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4100		50	41	ug/L	50		8260C	Total/NA
1,1-Dichloroethane	1500		50	19	ug/L	50		8260C	Total/NA
1,1-Dichloroethene	230		50	15	ug/L	50		8260C	Total/NA
cis-1,2-Dichloroethene	100		50	41	ug/L	50		8260C	Total/NA
Trichloroethene	80		50	23	ug/L	50		8260C	Total/NA

Client Sample ID: ERT-7-022014

Lab Sample ID: 480-55128-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.1		1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	76		1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	7.5	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	8.5		1.0	0.81	ug/L	1		8260C	Total/NA
Methylene Chloride	2.6		1.0	0.44	ug/L	1		8260C	Total/NA
Toluene	0.54	J	1.0	0.51	ug/L	1		8260C	Total/NA
Trichloroethene	7.9		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: ERT-8-022014

Lab Sample ID: 480-55128-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	44		1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	8.9	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroethane	28		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.5		1.0	0.81	ug/L	1		8260C	Total/NA
Toluene	0.77	J	1.0	0.51	ug/L	1		8260C	Total/NA
Trichloroethene	0.53	J	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	2.5		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: DUP-02-022014

Lab Sample ID: 480-55128-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1500	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane	31		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	79		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	50		1.0	0.29	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: DUP-02-022014 (Continued)

Lab Sample ID: 480-55128-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.6	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	80		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	15		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	1.3		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	1800		25	21	ug/L	25		8260C	Total/NA
1,1-Dichloroethane - DL	71		25	9.5	ug/L	25		8260C	Total/NA
1,1-Dichloroethene - DL	110		25	7.3	ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene - DL	72		25	20	ug/L	25		8260C	Total/NA
Trichloroethene - DL	14	J	25	12	ug/L	25		8260C	Total/NA

Client Sample ID: FB-01-022014

Lab Sample ID: 480-55128-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.5	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: TB-02-022014

Lab Sample ID: 480-55128-49

No Detections.

Client Sample ID: 1-1A(INF)-022114

Lab Sample ID: 480-55128-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	120	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichlorotrifluoroethane	2.1		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	17		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	9.3		1.0	0.29	ug/L	1		8260C	Total/NA
Chloroethane	0.52	J	1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	39		1.0	0.81	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	1.9		1.0	0.16	ug/L	1		8260C	Total/NA
Trichloroethene	43		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	4.6		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	120		2.0	1.6	ug/L	2		8260C	Total/NA
1,1-Dichloroethane - DL	16		2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene - DL	14		2.0	0.58	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene - DL	37		2.0	1.6	ug/L	2		8260C	Total/NA
Methyl tert-butyl ether - DL	1.8	J	2.0	0.32	ug/L	2		8260C	Total/NA
Trichloroethene - DL	42		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride - DL	4.6		2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: 1-1A(EFF)-022114

Lab Sample ID: 480-55128-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.9		1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	2.6		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	9.6		1.0	0.81	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	1.5		1.0	0.16	ug/L	1		8260C	Total/NA
Trichloroethene	3.8		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-22-022014

Lab Sample ID: 480-55128-21

Date Collected: 02/20/14 08:50

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/25/14 16:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/25/14 16:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/25/14 16:18	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/25/14 16:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/25/14 16:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/25/14 16:18	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/25/14 16:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/25/14 16:18	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/25/14 16:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/25/14 16:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/25/14 16:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/25/14 16:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/25/14 16:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/25/14 16:18	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/25/14 16:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/25/14 16:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/25/14 16:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/25/14 16:18	1
2-Hexanone	ND		5.0	1.2	ug/L			02/25/14 16:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/25/14 16:18	1
Acetone	12		10	3.0	ug/L			02/25/14 16:18	1
Benzene	0.69	J	1.0	0.41	ug/L			02/25/14 16:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/25/14 16:18	1
Bromoform	ND		1.0	0.26	ug/L			02/25/14 16:18	1
Bromomethane	ND		1.0	0.69	ug/L			02/25/14 16:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/25/14 16:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/25/14 16:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/25/14 16:18	1
Chloroethane	ND		1.0	0.32	ug/L			02/25/14 16:18	1
Chloroform	ND		1.0	0.34	ug/L			02/25/14 16:18	1
Chloromethane	ND		1.0	0.35	ug/L			02/25/14 16:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/25/14 16:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/25/14 16:18	1
Cyclohexane	ND		1.0	0.18	ug/L			02/25/14 16:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/25/14 16:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/25/14 16:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/25/14 16:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/25/14 16:18	1
Methyl acetate	ND		2.5	0.50	ug/L			02/25/14 16:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/25/14 16:18	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/25/14 16:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/25/14 16:18	1
Styrene	ND		1.0	0.73	ug/L			02/25/14 16:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/25/14 16:18	1
Toluene	0.55	J	1.0	0.51	ug/L			02/25/14 16:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/25/14 16:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/25/14 16:18	1
Trichloroethene	ND		1.0	0.46	ug/L			02/25/14 16:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/25/14 16:18	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-22-022014

Lab Sample ID: 480-55128-21

Date Collected: 02/20/14 08:50

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.90	ug/L			02/25/14 16:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/25/14 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137					02/25/14 16:18	1
4-Bromofluorobenzene (Surr)	99		73 - 120					02/25/14 16:18	1
Toluene-d8 (Surr)	101		71 - 126					02/25/14 16:18	1

Client Sample ID: 4009-23S-022014

Lab Sample ID: 480-55128-22

Date Collected: 02/20/14 13:55

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/25/14 16:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/25/14 16:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/25/14 16:39	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/25/14 16:39	1
1,1-Dichloroethane	3.2		1.0	0.38	ug/L			02/25/14 16:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/25/14 16:39	1
1,2,3-Trimethylbenzene	1.8		1.0	0.26	ug/L			02/25/14 16:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/25/14 16:39	1
1,2,4-Trimethylbenzene	8.6		1.0	0.75	ug/L			02/25/14 16:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/25/14 16:39	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/25/14 16:39	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/25/14 16:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/25/14 16:39	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/25/14 16:39	1
1,3,5-Trimethylbenzene	4.4		1.0	0.77	ug/L			02/25/14 16:39	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/25/14 16:39	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/25/14 16:39	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/25/14 16:39	1
2-Hexanone	ND		5.0	1.2	ug/L			02/25/14 16:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/25/14 16:39	1
Acetone	6.1 J		10	3.0	ug/L			02/25/14 16:39	1
Benzene	1.8		1.0	0.41	ug/L			02/25/14 16:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/25/14 16:39	1
Bromoform	ND		1.0	0.26	ug/L			02/25/14 16:39	1
Bromomethane	ND		1.0	0.69	ug/L			02/25/14 16:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/25/14 16:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/25/14 16:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/25/14 16:39	1
Chloroethane	ND		1.0	0.32	ug/L			02/25/14 16:39	1
Chloroform	ND		1.0	0.34	ug/L			02/25/14 16:39	1
Chloromethane	ND		1.0	0.35	ug/L			02/25/14 16:39	1
cis-1,2-Dichloroethene	2.2		1.0	0.81	ug/L			02/25/14 16:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/25/14 16:39	1
Cyclohexane	0.78 J		1.0	0.18	ug/L			02/25/14 16:39	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/25/14 16:39	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/25/14 16:39	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-23S-022014

Lab Sample ID: 480-55128-22

Date Collected: 02/20/14 13:55

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			02/25/14 16:39	1
Isopropylbenzene	5.3		1.0	0.79	ug/L			02/25/14 16:39	1
Methyl acetate	ND		2.5	0.50	ug/L			02/25/14 16:39	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/25/14 16:39	1
Methylcyclohexane	0.69	J	1.0	0.16	ug/L			02/25/14 16:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/25/14 16:39	1
Styrene	ND		1.0	0.73	ug/L			02/25/14 16:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/25/14 16:39	1
Toluene	ND		1.0	0.51	ug/L			02/25/14 16:39	1
trans-1,2-Dichloroethene	2.4		1.0	0.90	ug/L			02/25/14 16:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/25/14 16:39	1
Trichloroethene	1.6		1.0	0.46	ug/L			02/25/14 16:39	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/25/14 16:39	1
Vinyl chloride	0.93	J	1.0	0.90	ug/L			02/25/14 16:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/25/14 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137					02/25/14 16:39	1
4-Bromofluorobenzene (Surr)	103		73 - 120					02/25/14 16:39	1
Toluene-d8 (Surr)	100		71 - 126					02/25/14 16:39	1

Client Sample ID: 4009-23D-022014

Lab Sample ID: 480-55128-23

Date Collected: 02/20/14 13:50

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	130	E	1.0	0.82	ug/L			02/25/14 17:01	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/25/14 17:01	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/25/14 17:01	1
1,1,2-Trichlorotrifluoroethane	24		1.0	0.31	ug/L			02/25/14 17:01	1
1,1-Dichloroethane	210	E	1.0	0.38	ug/L			02/25/14 17:01	1
1,1-Dichloroethene	31		1.0	0.29	ug/L			02/25/14 17:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/25/14 17:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/25/14 17:01	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/25/14 17:01	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/25/14 17:01	1
1,2-Dichloroethane	0.43	J	1.0	0.21	ug/L			02/25/14 17:01	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/25/14 17:01	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/25/14 17:01	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/25/14 17:01	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/25/14 17:01	1
2-Hexanone	ND		5.0	1.2	ug/L			02/25/14 17:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/25/14 17:01	1
Acetone	8.3	J	10	3.0	ug/L			02/25/14 17:01	1
Benzene	ND		1.0	0.41	ug/L			02/25/14 17:01	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/25/14 17:01	1
Bromoform	ND		1.0	0.26	ug/L			02/25/14 17:01	1
Bromomethane	ND		1.0	0.69	ug/L			02/25/14 17:01	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/25/14 17:01	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-23D-022014

Lab Sample ID: 480-55128-23

Date Collected: 02/20/14 13:50

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/25/14 17:01	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/25/14 17:01	1
Chloroethane	11		1.0	0.32	ug/L			02/25/14 17:01	1
Chloroform	ND		1.0	0.34	ug/L			02/25/14 17:01	1
Chloromethane	ND		1.0	0.35	ug/L			02/25/14 17:01	1
cis-1,2-Dichloroethene	490 E		1.0	0.81	ug/L			02/25/14 17:01	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/25/14 17:01	1
Cyclohexane	ND		1.0	0.18	ug/L			02/25/14 17:01	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/25/14 17:01	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/25/14 17:01	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/25/14 17:01	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/25/14 17:01	1
Methyl acetate	ND		2.5	0.50	ug/L			02/25/14 17:01	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/25/14 17:01	1
Methylcyclohexane	0.25 J		1.0	0.16	ug/L			02/25/14 17:01	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/25/14 17:01	1
Styrene	ND		1.0	0.73	ug/L			02/25/14 17:01	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/25/14 17:01	1
Toluene	ND		1.0	0.51	ug/L			02/25/14 17:01	1
trans-1,2-Dichloroethene	2.3		1.0	0.90	ug/L			02/25/14 17:01	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/25/14 17:01	1
Trichloroethene	8.7		1.0	0.46	ug/L			02/25/14 17:01	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/25/14 17:01	1
Vinyl chloride	580 E		1.0	0.90	ug/L			02/25/14 17:01	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/25/14 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		02/25/14 17:01	1
4-Bromofluorobenzene (Surr)	98		73 - 120		02/25/14 17:01	1
Toluene-d8 (Surr)	102		71 - 126		02/25/14 17:01	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	130		10	8.2	ug/L			02/25/14 23:17	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			02/25/14 23:17	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			02/25/14 23:17	10
1,1,2-Trichlorotrifluoroethane	23		10	3.1	ug/L			02/25/14 23:17	10
1,1-Dichloroethane	250		10	3.8	ug/L			02/25/14 23:17	10
1,1-Dichloroethene	29		10	2.9	ug/L			02/25/14 23:17	10
1,2,3-Trimethylbenzene	ND		10	2.6	ug/L			02/25/14 23:17	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			02/25/14 23:17	10
1,2,4-Trimethylbenzene	ND		10	7.5	ug/L			02/25/14 23:17	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			02/25/14 23:17	10
1,2-Dibromoethane	ND		10	7.3	ug/L			02/25/14 23:17	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			02/25/14 23:17	10
1,2-Dichloroethane	ND		10	2.1	ug/L			02/25/14 23:17	10
1,2-Dichloropropane	ND		10	7.2	ug/L			02/25/14 23:17	10
1,3,5-Trimethylbenzene	ND		10	7.7	ug/L			02/25/14 23:17	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			02/25/14 23:17	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			02/25/14 23:17	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-23D-022014

Lab Sample ID: 480-55128-23

Date Collected: 02/20/14 13:50

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		100	13	ug/L			02/25/14 23:17	10
2-Hexanone	ND		50	12	ug/L			02/25/14 23:17	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			02/25/14 23:17	10
Acetone	ND		100	30	ug/L			02/25/14 23:17	10
Benzene	ND		10	4.1	ug/L			02/25/14 23:17	10
Bromodichloromethane	ND		10	3.9	ug/L			02/25/14 23:17	10
Bromoform	ND		10	2.6	ug/L			02/25/14 23:17	10
Bromomethane	ND		10	6.9	ug/L			02/25/14 23:17	10
Carbon disulfide	ND		10	1.9	ug/L			02/25/14 23:17	10
Carbon tetrachloride	ND		10	2.7	ug/L			02/25/14 23:17	10
Chlorobenzene	ND		10	7.5	ug/L			02/25/14 23:17	10
Chloroethane	9.3	J	10	3.2	ug/L			02/25/14 23:17	10
Chloroform	ND		10	3.4	ug/L			02/25/14 23:17	10
Chloromethane	ND		10	3.5	ug/L			02/25/14 23:17	10
cis-1,2-Dichloroethene	580		10	8.1	ug/L			02/25/14 23:17	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			02/25/14 23:17	10
Cyclohexane	ND		10	1.8	ug/L			02/25/14 23:17	10
Dibromochloromethane	ND		10	3.2	ug/L			02/25/14 23:17	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			02/25/14 23:17	10
Ethylbenzene	ND		10	7.4	ug/L			02/25/14 23:17	10
Isopropylbenzene	ND		10	7.9	ug/L			02/25/14 23:17	10
Methyl acetate	ND		25	5.0	ug/L			02/25/14 23:17	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			02/25/14 23:17	10
Methylcyclohexane	ND		10	1.6	ug/L			02/25/14 23:17	10
Methylene Chloride	ND		10	4.4	ug/L			02/25/14 23:17	10
Styrene	ND		10	7.3	ug/L			02/25/14 23:17	10
Tetrachloroethene	ND		10	3.6	ug/L			02/25/14 23:17	10
Toluene	ND		10	5.1	ug/L			02/25/14 23:17	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			02/25/14 23:17	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			02/25/14 23:17	10
Trichloroethene	9.6	J	10	4.6	ug/L			02/25/14 23:17	10
Trichlorofluoromethane	ND		10	8.8	ug/L			02/25/14 23:17	10
Vinyl chloride	630		10	9.0	ug/L			02/25/14 23:17	10
Xylenes, Total	ND		20	6.6	ug/L			02/25/14 23:17	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		02/25/14 23:17	10
4-Bromofluorobenzene (Surr)	99		73 - 120		02/25/14 23:17	10
Toluene-d8 (Surr)	102		71 - 126		02/25/14 23:17	10

Client Sample ID: 4009-24-022014

Lab Sample ID: 480-55128-24

Date Collected: 02/20/14 14:05

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/25/14 17:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/25/14 17:23	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/25/14 17:23	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/25/14 17:23	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-24-022014

Lab Sample ID: 480-55128-24

Date Collected: 02/20/14 14:05

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/25/14 17:23	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/25/14 17:23	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/25/14 17:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/25/14 17:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/25/14 17:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/25/14 17:23	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/25/14 17:23	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/25/14 17:23	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/25/14 17:23	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/25/14 17:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/25/14 17:23	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/25/14 17:23	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/25/14 17:23	1
2-Butanone (MEK)	1.4	J	10	1.3	ug/L			02/25/14 17:23	1
2-Hexanone	ND		5.0	1.2	ug/L			02/25/14 17:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/25/14 17:23	1
Acetone	9.3	J	10	3.0	ug/L			02/25/14 17:23	1
Benzene	ND		1.0	0.41	ug/L			02/25/14 17:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/25/14 17:23	1
Bromoform	ND		1.0	0.26	ug/L			02/25/14 17:23	1
Bromomethane	ND		1.0	0.69	ug/L			02/25/14 17:23	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/25/14 17:23	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/25/14 17:23	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/25/14 17:23	1
Chloroethane	ND		1.0	0.32	ug/L			02/25/14 17:23	1
Chloroform	ND		1.0	0.34	ug/L			02/25/14 17:23	1
Chloromethane	ND		1.0	0.35	ug/L			02/25/14 17:23	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/25/14 17:23	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/25/14 17:23	1
Cyclohexane	ND		1.0	0.18	ug/L			02/25/14 17:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/25/14 17:23	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/25/14 17:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/25/14 17:23	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/25/14 17:23	1
Methyl acetate	ND		2.5	0.50	ug/L			02/25/14 17:23	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/25/14 17:23	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/25/14 17:23	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/25/14 17:23	1
Styrene	ND		1.0	0.73	ug/L			02/25/14 17:23	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/25/14 17:23	1
Toluene	ND		1.0	0.51	ug/L			02/25/14 17:23	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/25/14 17:23	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/25/14 17:23	1
Trichloroethene	ND		1.0	0.46	ug/L			02/25/14 17:23	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/25/14 17:23	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/25/14 17:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/25/14 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		02/25/14 17:23	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-24-022014

Lab Sample ID: 480-55128-24

Date Collected: 02/20/14 14:05

Matrix: Water

Date Received: 02/24/14 16:37

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		73 - 120		02/25/14 17:23	1
Toluene-d8 (Surr)	101		71 - 126		02/25/14 17:23	1

Client Sample ID: 4009-25S-022014

Lab Sample ID: 480-55128-25

Date Collected: 02/20/14 15:35

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1600	E	1.0	0.82	ug/L			02/25/14 17:44	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/25/14 17:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/25/14 17:44	1
1,1,2-Trichlorotrifluoroethane	31		1.0	0.31	ug/L			02/25/14 17:44	1
1,1-Dichloroethane	87		1.0	0.38	ug/L			02/25/14 17:44	1
1,1-Dichloroethene	230	E	1.0	0.29	ug/L			02/25/14 17:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/25/14 17:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/25/14 17:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/25/14 17:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/25/14 17:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/25/14 17:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/25/14 17:44	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/25/14 17:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/25/14 17:44	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/25/14 17:44	1
2-Hexanone	ND		5.0	1.2	ug/L			02/25/14 17:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/25/14 17:44	1
Acetone	ND		10	3.0	ug/L			02/25/14 17:44	1
Benzene	ND		1.0	0.41	ug/L			02/25/14 17:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/25/14 17:44	1
Bromoform	ND		1.0	0.26	ug/L			02/25/14 17:44	1
Bromomethane	ND		1.0	0.69	ug/L			02/25/14 17:44	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/25/14 17:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/25/14 17:44	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/25/14 17:44	1
Chloroethane	ND		1.0	0.32	ug/L			02/25/14 17:44	1
Chloroform	ND		1.0	0.34	ug/L			02/25/14 17:44	1
Chloromethane	ND		1.0	0.35	ug/L			02/25/14 17:44	1
cis-1,2-Dichloroethene	140	E	1.0	0.81	ug/L			02/25/14 17:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/25/14 17:44	1
Cyclohexane	ND		1.0	0.18	ug/L			02/25/14 17:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/25/14 17:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/25/14 17:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/25/14 17:44	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/25/14 17:44	1
Methyl acetate	ND		2.5	0.50	ug/L			02/25/14 17:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/25/14 17:44	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/25/14 17:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/25/14 17:44	1
Styrene	ND		1.0	0.73	ug/L			02/25/14 17:44	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-25S-022014

Lab Sample ID: 480-55128-25

Date Collected: 02/20/14 15:35

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			02/25/14 17:44	1
Toluene	ND		1.0	0.51	ug/L			02/25/14 17:44	1
trans-1,2-Dichloroethene	2.9		1.0	0.90	ug/L			02/25/14 17:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/25/14 17:44	1
Trichloroethene	32		1.0	0.46	ug/L			02/25/14 17:44	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/25/14 17:44	1
Vinyl chloride	3.7		1.0	0.90	ug/L			02/25/14 17:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/25/14 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137					02/25/14 17:44	1
4-Bromofluorobenzene (Surr)	98		73 - 120					02/25/14 17:44	1
Toluene-d8 (Surr)	99		71 - 126					02/25/14 17:44	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2600		40	33	ug/L			02/25/14 23:38	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			02/25/14 23:38	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			02/25/14 23:38	40
1,1,2-Trichlorotrifluoroethane	32 J		40	12	ug/L			02/25/14 23:38	40
1,1-Dichloroethane	110		40	15	ug/L			02/25/14 23:38	40
1,1-Dichloroethene	210		40	12	ug/L			02/25/14 23:38	40
1,2,3-Trimethylbenzene	ND		40	10	ug/L			02/25/14 23:38	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			02/25/14 23:38	40
1,2,4-Trimethylbenzene	ND		40	30	ug/L			02/25/14 23:38	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			02/25/14 23:38	40
1,2-Dibromoethane	ND		40	29	ug/L			02/25/14 23:38	40
1,2-Dichlorobenzene	ND		40	32	ug/L			02/25/14 23:38	40
1,2-Dichloroethane	ND		40	8.4	ug/L			02/25/14 23:38	40
1,2-Dichloropropane	ND		40	29	ug/L			02/25/14 23:38	40
1,3,5-Trimethylbenzene	ND		40	31	ug/L			02/25/14 23:38	40
1,3-Dichlorobenzene	ND		40	31	ug/L			02/25/14 23:38	40
1,4-Dichlorobenzene	ND		40	34	ug/L			02/25/14 23:38	40
2-Butanone (MEK)	ND		400	53	ug/L			02/25/14 23:38	40
2-Hexanone	ND		200	50	ug/L			02/25/14 23:38	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			02/25/14 23:38	40
Acetone	ND		400	120	ug/L			02/25/14 23:38	40
Benzene	ND		40	16	ug/L			02/25/14 23:38	40
Bromodichloromethane	ND		40	16	ug/L			02/25/14 23:38	40
Bromoform	ND		40	10	ug/L			02/25/14 23:38	40
Bromomethane	ND		40	28	ug/L			02/25/14 23:38	40
Carbon disulfide	ND		40	7.6	ug/L			02/25/14 23:38	40
Carbon tetrachloride	ND		40	11	ug/L			02/25/14 23:38	40
Chlorobenzene	ND		40	30	ug/L			02/25/14 23:38	40
Chloroethane	ND		40	13	ug/L			02/25/14 23:38	40
Chloroform	ND		40	14	ug/L			02/25/14 23:38	40
Chloromethane	ND		40	14	ug/L			02/25/14 23:38	40
cis-1,2-Dichloroethene	180		40	32	ug/L			02/25/14 23:38	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			02/25/14 23:38	40
Cyclohexane	ND		40	7.2	ug/L			02/25/14 23:38	40

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-25S-022014

Lab Sample ID: 480-55128-25

Date Collected: 02/20/14 15:35

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		40	13	ug/L			02/25/14 23:38	40
Dichlorodifluoromethane	ND		40	27	ug/L			02/25/14 23:38	40
Ethylbenzene	ND		40	30	ug/L			02/25/14 23:38	40
Isopropylbenzene	ND		40	32	ug/L			02/25/14 23:38	40
Methyl acetate	ND		100	20	ug/L			02/25/14 23:38	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			02/25/14 23:38	40
Methylcyclohexane	ND		40	6.4	ug/L			02/25/14 23:38	40
Methylene Chloride	ND		40	18	ug/L			02/25/14 23:38	40
Styrene	ND		40	29	ug/L			02/25/14 23:38	40
Tetrachloroethene	ND		40	14	ug/L			02/25/14 23:38	40
Toluene	ND		40	20	ug/L			02/25/14 23:38	40
trans-1,2-Dichloroethene	ND		40	36	ug/L			02/25/14 23:38	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			02/25/14 23:38	40
Trichloroethene	44		40	18	ug/L			02/25/14 23:38	40
Trichlorofluoromethane	ND		40	35	ug/L			02/25/14 23:38	40
Vinyl chloride	ND		40	36	ug/L			02/25/14 23:38	40
Xylenes, Total	ND		80	26	ug/L			02/25/14 23:38	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		02/25/14 23:38	40
4-Bromofluorobenzene (Surr)	96		73 - 120		02/25/14 23:38	40
Toluene-d8 (Surr)	101		71 - 126		02/25/14 23:38	40

Client Sample ID: 4009-25D-022014

Lab Sample ID: 480-55128-26

Date Collected: 02/20/14 15:40

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1400	E	1.0	0.82	ug/L			02/25/14 18:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/25/14 18:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/25/14 18:06	1
1,1,2-Trichlorotrifluoroethane	32		1.0	0.31	ug/L			02/25/14 18:06	1
1,1-Dichloroethane	74		1.0	0.38	ug/L			02/25/14 18:06	1
1,1-Dichloroethene	160	E	1.0	0.29	ug/L			02/25/14 18:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/25/14 18:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/25/14 18:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/25/14 18:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/25/14 18:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/25/14 18:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/25/14 18:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/25/14 18:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/25/14 18:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/25/14 18:06	1
2-Hexanone	ND		5.0	1.2	ug/L			02/25/14 18:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/25/14 18:06	1
Acetone	6.0	J	10	3.0	ug/L			02/25/14 18:06	1
Benzene	ND		1.0	0.41	ug/L			02/25/14 18:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/25/14 18:06	1
Bromoform	ND		1.0	0.26	ug/L			02/25/14 18:06	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-25D-022014

Lab Sample ID: 480-55128-26

Date Collected: 02/20/14 15:40

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0	0.69	ug/L			02/25/14 18:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/25/14 18:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/25/14 18:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/25/14 18:06	1
Chloroethane	ND		1.0	0.32	ug/L			02/25/14 18:06	1
Chloroform	ND		1.0	0.34	ug/L			02/25/14 18:06	1
Chloromethane	ND		1.0	0.35	ug/L			02/25/14 18:06	1
cis-1,2-Dichloroethene	76		1.0	0.81	ug/L			02/25/14 18:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/25/14 18:06	1
Cyclohexane	ND		1.0	0.18	ug/L			02/25/14 18:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/25/14 18:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/25/14 18:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/25/14 18:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/25/14 18:06	1
Methyl acetate	ND		2.5	0.50	ug/L			02/25/14 18:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/25/14 18:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/25/14 18:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/25/14 18:06	1
Styrene	ND		1.0	0.73	ug/L			02/25/14 18:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/25/14 18:06	1
Toluene	ND		1.0	0.51	ug/L			02/25/14 18:06	1
trans-1,2-Dichloroethene	2.0		1.0	0.90	ug/L			02/25/14 18:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/25/14 18:06	1
Trichloroethene	16		1.0	0.46	ug/L			02/25/14 18:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/25/14 18:06	1
Vinyl chloride	1.4		1.0	0.90	ug/L			02/25/14 18:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/25/14 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		02/25/14 18:06	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/25/14 18:06	1
Toluene-d8 (Surr)	101		71 - 126		02/25/14 18:06	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1900		20	16	ug/L			02/26/14 00:44	20
1,1,1,2-Tetrachloroethane	ND		20	4.2	ug/L			02/26/14 00:44	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			02/26/14 00:44	20
1,1,2-Trichlorotrifluoroethane	32		20	6.2	ug/L			02/26/14 00:44	20
1,1-Dichloroethane	82		20	7.6	ug/L			02/26/14 00:44	20
1,1-Dichloroethene	120		20	5.8	ug/L			02/26/14 00:44	20
1,2,3-Trimethylbenzene	ND		20	5.2	ug/L			02/26/14 00:44	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			02/26/14 00:44	20
1,2,4-Trimethylbenzene	ND		20	15	ug/L			02/26/14 00:44	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			02/26/14 00:44	20
1,2-Dibromoethane	ND		20	15	ug/L			02/26/14 00:44	20
1,2-Dichlorobenzene	ND		20	16	ug/L			02/26/14 00:44	20
1,2-Dichloroethane	ND		20	4.2	ug/L			02/26/14 00:44	20
1,2-Dichloropropane	ND		20	14	ug/L			02/26/14 00:44	20
1,3,5-Trimethylbenzene	ND		20	15	ug/L			02/26/14 00:44	20

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-25D-022014

Lab Sample ID: 480-55128-26

Date Collected: 02/20/14 15:40

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		20	16	ug/L			02/26/14 00:44	20
1,4-Dichlorobenzene	ND		20	17	ug/L			02/26/14 00:44	20
2-Butanone (MEK)	ND		200	26	ug/L			02/26/14 00:44	20
2-Hexanone	ND		100	25	ug/L			02/26/14 00:44	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			02/26/14 00:44	20
Acetone	ND		200	60	ug/L			02/26/14 00:44	20
Benzene	ND		20	8.2	ug/L			02/26/14 00:44	20
Bromodichloromethane	ND		20	7.8	ug/L			02/26/14 00:44	20
Bromoform	ND		20	5.2	ug/L			02/26/14 00:44	20
Bromomethane	ND		20	14	ug/L			02/26/14 00:44	20
Carbon disulfide	ND		20	3.8	ug/L			02/26/14 00:44	20
Carbon tetrachloride	ND		20	5.4	ug/L			02/26/14 00:44	20
Chlorobenzene	ND		20	15	ug/L			02/26/14 00:44	20
Chloroethane	ND		20	6.4	ug/L			02/26/14 00:44	20
Chloroform	ND		20	6.8	ug/L			02/26/14 00:44	20
Chloromethane	ND		20	7.0	ug/L			02/26/14 00:44	20
cis-1,2-Dichloroethene	82		20	16	ug/L			02/26/14 00:44	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			02/26/14 00:44	20
Cyclohexane	ND		20	3.6	ug/L			02/26/14 00:44	20
Dibromochloromethane	ND		20	6.4	ug/L			02/26/14 00:44	20
Dichlorodifluoromethane	ND		20	14	ug/L			02/26/14 00:44	20
Ethylbenzene	ND		20	15	ug/L			02/26/14 00:44	20
Isopropylbenzene	ND		20	16	ug/L			02/26/14 00:44	20
Methyl acetate	ND		50	10	ug/L			02/26/14 00:44	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			02/26/14 00:44	20
Methylcyclohexane	ND		20	3.2	ug/L			02/26/14 00:44	20
Methylene Chloride	ND		20	8.8	ug/L			02/26/14 00:44	20
Styrene	ND		20	15	ug/L			02/26/14 00:44	20
Tetrachloroethene	ND		20	7.2	ug/L			02/26/14 00:44	20
Toluene	ND		20	10	ug/L			02/26/14 00:44	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			02/26/14 00:44	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			02/26/14 00:44	20
Trichloroethene	18 J		20	9.2	ug/L			02/26/14 00:44	20
Trichlorofluoromethane	ND		20	18	ug/L			02/26/14 00:44	20
Vinyl chloride	ND		20	18	ug/L			02/26/14 00:44	20
Xylenes, Total	ND		40	13	ug/L			02/26/14 00:44	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137					02/26/14 00:44	20
4-Bromofluorobenzene (Surr)	97		73 - 120					02/26/14 00:44	20
Toluene-d8 (Surr)	100		71 - 126					02/26/14 00:44	20

Client Sample ID: 4009-26-022014

Lab Sample ID: 480-55128-27

Date Collected: 02/20/14 13:25

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	98		1.0	0.82	ug/L			02/25/14 18:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/25/14 18:28	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-26-022014

Lab Sample ID: 480-55128-27

Date Collected: 02/20/14 13:25

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/25/14 18:28	1
1,1,2-Trichlorotrifluoroethane	7.7		1.0	0.31	ug/L			02/25/14 18:28	1
1,1-Dichloroethane	27		1.0	0.38	ug/L			02/25/14 18:28	1
1,1-Dichloroethene	6.0		1.0	0.29	ug/L			02/25/14 18:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/25/14 18:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/25/14 18:28	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/25/14 18:28	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/25/14 18:28	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/25/14 18:28	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/25/14 18:28	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/25/14 18:28	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/25/14 18:28	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/25/14 18:28	1
2-Hexanone	ND		5.0	1.2	ug/L			02/25/14 18:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/25/14 18:28	1
Acetone	10		10	3.0	ug/L			02/25/14 18:28	1
Benzene	0.81	J	1.0	0.41	ug/L			02/25/14 18:28	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/25/14 18:28	1
Bromoform	ND		1.0	0.26	ug/L			02/25/14 18:28	1
Bromomethane	ND		1.0	0.69	ug/L			02/25/14 18:28	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/25/14 18:28	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/25/14 18:28	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/25/14 18:28	1
Chloroethane	ND		1.0	0.32	ug/L			02/25/14 18:28	1
Chloroform	ND		1.0	0.34	ug/L			02/25/14 18:28	1
Chloromethane	ND		1.0	0.35	ug/L			02/25/14 18:28	1
cis-1,2-Dichloroethene	110	E	1.0	0.81	ug/L			02/25/14 18:28	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/25/14 18:28	1
Cyclohexane	ND		1.0	0.18	ug/L			02/25/14 18:28	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/25/14 18:28	1
Dichlorodifluoromethane	3.9		1.0	0.68	ug/L			02/25/14 18:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/25/14 18:28	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/25/14 18:28	1
Methyl acetate	ND		2.5	0.50	ug/L			02/25/14 18:28	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/25/14 18:28	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/25/14 18:28	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/25/14 18:28	1
Styrene	ND		1.0	0.73	ug/L			02/25/14 18:28	1
Tetrachloroethene	1.1		1.0	0.36	ug/L			02/25/14 18:28	1
Toluene	ND		1.0	0.51	ug/L			02/25/14 18:28	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/25/14 18:28	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/25/14 18:28	1
Trichloroethene	45		1.0	0.46	ug/L			02/25/14 18:28	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/25/14 18:28	1
Vinyl chloride	12		1.0	0.90	ug/L			02/25/14 18:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/25/14 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		02/25/14 18:28	1
4-Bromofluorobenzene (Surr)	97		73 - 120		02/25/14 18:28	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-26-022014

Lab Sample ID: 480-55128-27

Date Collected: 02/20/14 13:25

Matrix: Water

Date Received: 02/24/14 16:37

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 126		02/25/14 18:28	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	100		2.0	1.6	ug/L			02/26/14 01:06	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			02/26/14 01:06	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			02/26/14 01:06	2
1,1,2-Trichlorotrifluoroethane	8.4		2.0	0.62	ug/L			02/26/14 01:06	2
1,1-Dichloroethane	29		2.0	0.76	ug/L			02/26/14 01:06	2
1,1-Dichloroethene	6.6		2.0	0.58	ug/L			02/26/14 01:06	2
1,2,3-Trimethylbenzene	ND		2.0	0.52	ug/L			02/26/14 01:06	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			02/26/14 01:06	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			02/26/14 01:06	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			02/26/14 01:06	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			02/26/14 01:06	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			02/26/14 01:06	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			02/26/14 01:06	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			02/26/14 01:06	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			02/26/14 01:06	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			02/26/14 01:06	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			02/26/14 01:06	2
2-Butanone (MEK)	ND		20	2.6	ug/L			02/26/14 01:06	2
2-Hexanone	ND		10	2.5	ug/L			02/26/14 01:06	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			02/26/14 01:06	2
Acetone	12 J		20	6.0	ug/L			02/26/14 01:06	2
Benzene	ND		2.0	0.82	ug/L			02/26/14 01:06	2
Bromodichloromethane	ND		2.0	0.78	ug/L			02/26/14 01:06	2
Bromoform	ND		2.0	0.52	ug/L			02/26/14 01:06	2
Bromomethane	ND		2.0	1.4	ug/L			02/26/14 01:06	2
Carbon disulfide	ND		2.0	0.38	ug/L			02/26/14 01:06	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			02/26/14 01:06	2
Chlorobenzene	ND		2.0	1.5	ug/L			02/26/14 01:06	2
Chloroethane	0.74 J		2.0	0.64	ug/L			02/26/14 01:06	2
Chloroform	ND		2.0	0.68	ug/L			02/26/14 01:06	2
Chloromethane	ND		2.0	0.70	ug/L			02/26/14 01:06	2
cis-1,2-Dichloroethene	120		2.0	1.6	ug/L			02/26/14 01:06	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			02/26/14 01:06	2
Cyclohexane	ND		2.0	0.36	ug/L			02/26/14 01:06	2
Dibromochloromethane	ND		2.0	0.64	ug/L			02/26/14 01:06	2
Dichlorodifluoromethane	3.7		2.0	1.4	ug/L			02/26/14 01:06	2
Ethylbenzene	ND		2.0	1.5	ug/L			02/26/14 01:06	2
Isopropylbenzene	ND		2.0	1.6	ug/L			02/26/14 01:06	2
Methyl acetate	ND		5.0	1.0	ug/L			02/26/14 01:06	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			02/26/14 01:06	2
Methylcyclohexane	ND		2.0	0.32	ug/L			02/26/14 01:06	2
Methylene Chloride	ND		2.0	0.88	ug/L			02/26/14 01:06	2
Styrene	ND		2.0	1.5	ug/L			02/26/14 01:06	2
Tetrachloroethene	1.1 J		2.0	0.72	ug/L			02/26/14 01:06	2
Toluene	ND		2.0	1.0	ug/L			02/26/14 01:06	2

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-26-022014

Lab Sample ID: 480-55128-27

Date Collected: 02/20/14 13:25

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			02/26/14 01:06	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			02/26/14 01:06	2
Trichloroethene	49		2.0	0.92	ug/L			02/26/14 01:06	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			02/26/14 01:06	2
Vinyl chloride	12		2.0	1.8	ug/L			02/26/14 01:06	2
Xylenes, Total	ND		4.0	1.3	ug/L			02/26/14 01:06	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		02/26/14 01:06	2
4-Bromofluorobenzene (Surr)	98		73 - 120		02/26/14 01:06	2
Toluene-d8 (Surr)	101		71 - 126		02/26/14 01:06	2

Client Sample ID: 4009-27S-022014

Lab Sample ID: 480-55128-28

Date Collected: 02/20/14 11:15

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	54		1.0	0.82	ug/L			02/26/14 01:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 01:28	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 01:28	1
1,1,2-Trichlorotrifluoroethane	2.8		1.0	0.31	ug/L			02/26/14 01:28	1
1,1-Dichloroethane	1.9		1.0	0.38	ug/L			02/26/14 01:28	1
1,1-Dichloroethene	5.7		1.0	0.29	ug/L			02/26/14 01:28	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 01:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 01:28	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 01:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 01:28	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 01:28	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 01:28	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 01:28	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 01:28	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 01:28	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 01:28	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 01:28	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 01:28	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 01:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 01:28	1
Acetone	9.9 J		10	3.0	ug/L			02/26/14 01:28	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 01:28	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 01:28	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 01:28	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 01:28	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 01:28	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 01:28	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 01:28	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/14 01:28	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 01:28	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 01:28	1
cis-1,2-Dichloroethene	18		1.0	0.81	ug/L			02/26/14 01:28	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-27S-022014

Lab Sample ID: 480-55128-28

Date Collected: 02/20/14 11:15

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 01:28	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 01:28	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 01:28	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 01:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 01:28	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 01:28	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 01:28	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 01:28	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 01:28	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 01:28	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 01:28	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 01:28	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 01:28	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 01:28	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 01:28	1
Trichloroethene	25		1.0	0.46	ug/L			02/26/14 01:28	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 01:28	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/14 01:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		02/26/14 01:28	1
4-Bromofluorobenzene (Surr)	97		73 - 120		02/26/14 01:28	1
Toluene-d8 (Surr)	101		71 - 126		02/26/14 01:28	1

Client Sample ID: 4009-27I-022014

Lab Sample ID: 480-55128-29

Date Collected: 02/20/14 11:20

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/25/14 19:11	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/25/14 19:11	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/25/14 19:11	1
1,1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/25/14 19:11	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/25/14 19:11	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/25/14 19:11	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/25/14 19:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/25/14 19:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/25/14 19:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/25/14 19:11	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/25/14 19:11	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/25/14 19:11	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/25/14 19:11	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/25/14 19:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/25/14 19:11	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/25/14 19:11	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/25/14 19:11	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/25/14 19:11	1
2-Hexanone	ND		5.0	1.2	ug/L			02/25/14 19:11	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-27I-022014

Lab Sample ID: 480-55128-29

Date Collected: 02/20/14 11:20

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/25/14 19:11	1
Acetone	5.8	J	10	3.0	ug/L			02/25/14 19:11	1
Benzene	ND		1.0	0.41	ug/L			02/25/14 19:11	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/25/14 19:11	1
Bromoform	ND		1.0	0.26	ug/L			02/25/14 19:11	1
Bromomethane	ND		1.0	0.69	ug/L			02/25/14 19:11	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/25/14 19:11	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/25/14 19:11	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/25/14 19:11	1
Chloroethane	ND		1.0	0.32	ug/L			02/25/14 19:11	1
Chloroform	ND		1.0	0.34	ug/L			02/25/14 19:11	1
Chloromethane	ND		1.0	0.35	ug/L			02/25/14 19:11	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/25/14 19:11	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/25/14 19:11	1
Cyclohexane	ND		1.0	0.18	ug/L			02/25/14 19:11	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/25/14 19:11	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/25/14 19:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/25/14 19:11	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/25/14 19:11	1
Methyl acetate	ND		2.5	0.50	ug/L			02/25/14 19:11	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/25/14 19:11	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/25/14 19:11	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/25/14 19:11	1
Styrene	ND		1.0	0.73	ug/L			02/25/14 19:11	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/25/14 19:11	1
Toluene	ND		1.0	0.51	ug/L			02/25/14 19:11	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/25/14 19:11	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/25/14 19:11	1
Trichloroethene	1.4		1.0	0.46	ug/L			02/25/14 19:11	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/25/14 19:11	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/25/14 19:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/25/14 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		02/25/14 19:11	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/25/14 19:11	1
Toluene-d8 (Surr)	102		71 - 126		02/25/14 19:11	1

Client Sample ID: 4009-27D-022014

Lab Sample ID: 480-55128-30

Date Collected: 02/20/14 11:25

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/26/14 01:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 01:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 01:49	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/26/14 01:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/14 01:49	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/14 01:49	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-27D-022014

Lab Sample ID: 480-55128-30

Date Collected: 02/20/14 11:25

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 01:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 01:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 01:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 01:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 01:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 01:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 01:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 01:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 01:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 01:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 01:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 01:49	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 01:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 01:49	1
Acetone	9.8	J	10	3.0	ug/L			02/26/14 01:49	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 01:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 01:49	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 01:49	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 01:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 01:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 01:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 01:49	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/14 01:49	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 01:49	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 01:49	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/14 01:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 01:49	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 01:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 01:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 01:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 01:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 01:49	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 01:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 01:49	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 01:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 01:49	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 01:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 01:49	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 01:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 01:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 01:49	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/14 01:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 01:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/14 01:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		02/26/14 01:49	1
4-Bromofluorobenzene (Surr)	98		73 - 120		02/26/14 01:49	1
Toluene-d8 (Surr)	100		71 - 126		02/26/14 01:49	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-28-022014

Lab Sample ID: 480-55128-31

Date Collected: 02/20/14 08:20

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.3		1.0	0.82	ug/L			02/26/14 02:11	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 02:11	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 02:11	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/26/14 02:11	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/14 02:11	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/14 02:11	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 02:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 02:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 02:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 02:11	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 02:11	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 02:11	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 02:11	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 02:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 02:11	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 02:11	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 02:11	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 02:11	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 02:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 02:11	1
Acetone	7.9	J	10	3.0	ug/L			02/26/14 02:11	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 02:11	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 02:11	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 02:11	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 02:11	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 02:11	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 02:11	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 02:11	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/14 02:11	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 02:11	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 02:11	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/14 02:11	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 02:11	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 02:11	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 02:11	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 02:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 02:11	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 02:11	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 02:11	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 02:11	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 02:11	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 02:11	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 02:11	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 02:11	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 02:11	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 02:11	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 02:11	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/14 02:11	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 02:11	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-28-022014

Lab Sample ID: 480-55128-31

Date Collected: 02/20/14 08:20

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/14 02:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137					02/26/14 02:11	1
4-Bromofluorobenzene (Surr)	99		73 - 120					02/26/14 02:11	1
Toluene-d8 (Surr)	100		71 - 126					02/26/14 02:11	1

Client Sample ID: 4009-29S-022014

Lab Sample ID: 480-55128-32

Date Collected: 02/20/14 11:30

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	660	E	1.0	0.82	ug/L			02/26/14 02:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 02:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 02:32	1
1,1,2-Trichlorotrifluoroethane	12		1.0	0.31	ug/L			02/26/14 02:32	1
1,1-Dichloroethane	120	E	1.0	0.38	ug/L			02/26/14 02:32	1
1,1-Dichloroethene	92		1.0	0.29	ug/L			02/26/14 02:32	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 02:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 02:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 02:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 02:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 02:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 02:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 02:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 02:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 02:32	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 02:32	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 02:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 02:32	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 02:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 02:32	1
Acetone	6.0	J	10	3.0	ug/L			02/26/14 02:32	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 02:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 02:32	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 02:32	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 02:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 02:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 02:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 02:32	1
Chloroethane	2.9		1.0	0.32	ug/L			02/26/14 02:32	1
Chloroform	0.69	J	1.0	0.34	ug/L			02/26/14 02:32	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 02:32	1
cis-1,2-Dichloroethene	240	E	1.0	0.81	ug/L			02/26/14 02:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 02:32	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 02:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 02:32	1
Dichlorodifluoromethane	1.3		1.0	0.68	ug/L			02/26/14 02:32	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-29S-022014

Lab Sample ID: 480-55128-32

Date Collected: 02/20/14 11:30

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 02:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 02:32	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 02:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 02:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 02:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 02:32	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 02:32	1
Tetrachloroethene	0.95	J	1.0	0.36	ug/L			02/26/14 02:32	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 02:32	1
trans-1,2-Dichloroethene	1.5		1.0	0.90	ug/L			02/26/14 02:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 02:32	1
Trichloroethene	270	E	1.0	0.46	ug/L			02/26/14 02:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 02:32	1
Vinyl chloride	43		1.0	0.90	ug/L			02/26/14 02:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		02/26/14 02:32	1
4-Bromofluorobenzene (Surr)	97		73 - 120		02/26/14 02:32	1
Toluene-d8 (Surr)	101		71 - 126		02/26/14 02:32	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	710		10	8.2	ug/L			02/26/14 14:49	10
1,1,1,2-Tetrachloroethane	ND		10	2.1	ug/L			02/26/14 14:49	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			02/26/14 14:49	10
1,1,2-Trichlorotrifluoroethane	ND		10	3.1	ug/L			02/26/14 14:49	10
1,1-Dichloroethane	130		10	3.8	ug/L			02/26/14 14:49	10
1,1-Dichloroethene	78		10	2.9	ug/L			02/26/14 14:49	10
1,2,3-Trimethylbenzene	ND		10	2.6	ug/L			02/26/14 14:49	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			02/26/14 14:49	10
1,2,4-Trimethylbenzene	ND		10	7.5	ug/L			02/26/14 14:49	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			02/26/14 14:49	10
1,2-Dibromoethane	ND		10	7.3	ug/L			02/26/14 14:49	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			02/26/14 14:49	10
1,2-Dichloroethane	ND		10	2.1	ug/L			02/26/14 14:49	10
1,2-Dichloropropane	ND		10	7.2	ug/L			02/26/14 14:49	10
1,3,5-Trimethylbenzene	ND		10	7.7	ug/L			02/26/14 14:49	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			02/26/14 14:49	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			02/26/14 14:49	10
2-Butanone (MEK)	ND		100	13	ug/L			02/26/14 14:49	10
2-Hexanone	ND		50	12	ug/L			02/26/14 14:49	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			02/26/14 14:49	10
Acetone	ND		100	30	ug/L			02/26/14 14:49	10
Benzene	ND		10	4.1	ug/L			02/26/14 14:49	10
Bromodichloromethane	ND		10	3.9	ug/L			02/26/14 14:49	10
Bromoform	ND		10	2.6	ug/L			02/26/14 14:49	10
Bromomethane	ND		10	6.9	ug/L			02/26/14 14:49	10
Carbon disulfide	ND		10	1.9	ug/L			02/26/14 14:49	10
Carbon tetrachloride	ND		10	2.7	ug/L			02/26/14 14:49	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-29S-022014

Lab Sample ID: 480-55128-32

Date Collected: 02/20/14 11:30

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		10	7.5	ug/L			02/26/14 14:49	10
Chloroethane	ND		10	3.2	ug/L			02/26/14 14:49	10
Chloroform	ND		10	3.4	ug/L			02/26/14 14:49	10
Chloromethane	ND		10	3.5	ug/L			02/26/14 14:49	10
cis-1,2-Dichloroethene	260		10	8.1	ug/L			02/26/14 14:49	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			02/26/14 14:49	10
Cyclohexane	ND		10	1.8	ug/L			02/26/14 14:49	10
Dibromochloromethane	ND		10	3.2	ug/L			02/26/14 14:49	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			02/26/14 14:49	10
Ethylbenzene	ND		10	7.4	ug/L			02/26/14 14:49	10
Isopropylbenzene	ND		10	7.9	ug/L			02/26/14 14:49	10
Methyl acetate	ND		25	5.0	ug/L			02/26/14 14:49	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			02/26/14 14:49	10
Methylcyclohexane	ND		10	1.6	ug/L			02/26/14 14:49	10
Methylene Chloride	ND		10	4.4	ug/L			02/26/14 14:49	10
Styrene	ND		10	7.3	ug/L			02/26/14 14:49	10
Tetrachloroethene	ND		10	3.6	ug/L			02/26/14 14:49	10
Toluene	ND		10	5.1	ug/L			02/26/14 14:49	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			02/26/14 14:49	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			02/26/14 14:49	10
Trichloroethene	300		10	4.6	ug/L			02/26/14 14:49	10
Trichlorofluoromethane	ND		10	8.8	ug/L			02/26/14 14:49	10
Vinyl chloride	44		10	9.0	ug/L			02/26/14 14:49	10
Xylenes, Total	ND		20	6.6	ug/L			02/26/14 14:49	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137					02/26/14 14:49	10
4-Bromofluorobenzene (Surr)	98		73 - 120					02/26/14 14:49	10
Toluene-d8 (Surr)	102		71 - 126					02/26/14 14:49	10

Client Sample ID: 4009-29I-022014

Lab Sample ID: 480-55128-33

Date Collected: 02/20/14 11:35

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1400	E	1.0	0.82	ug/L			02/26/14 02:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 02:54	1
1,1,2-Trichloroethane	0.86	J	1.0	0.23	ug/L			02/26/14 02:54	1
1,1,2-Trichlorotrifluoroethane	21		1.0	0.31	ug/L			02/26/14 02:54	1
1,1-Dichloroethane	83		1.0	0.38	ug/L			02/26/14 02:54	1
1,1-Dichloroethene	200	E	1.0	0.29	ug/L			02/26/14 02:54	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 02:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 02:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 02:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 02:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 02:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 02:54	1
1,2-Dichloroethane	0.41	J	1.0	0.21	ug/L			02/26/14 02:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 02:54	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-291-022014

Lab Sample ID: 480-55128-33

Date Collected: 02/20/14 11:35

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 02:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 02:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 02:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 02:54	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 02:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 02:54	1
Acetone	11		10	3.0	ug/L			02/26/14 02:54	1
Benzene	0.59	J	1.0	0.41	ug/L			02/26/14 02:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 02:54	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 02:54	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 02:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 02:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 02:54	1
Chlorobenzene	1.6		1.0	0.75	ug/L			02/26/14 02:54	1
Chloroethane	5.0		1.0	0.32	ug/L			02/26/14 02:54	1
Chloroform	1.1		1.0	0.34	ug/L			02/26/14 02:54	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 02:54	1
cis-1,2-Dichloroethene	360	E	1.0	0.81	ug/L			02/26/14 02:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 02:54	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 02:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 02:54	1
Dichlorodifluoromethane	1.2		1.0	0.68	ug/L			02/26/14 02:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 02:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 02:54	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 02:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 02:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 02:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 02:54	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 02:54	1
Tetrachloroethene	2.1		1.0	0.36	ug/L			02/26/14 02:54	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 02:54	1
trans-1,2-Dichloroethene	3.4		1.0	0.90	ug/L			02/26/14 02:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 02:54	1
Trichloroethene	390	E	1.0	0.46	ug/L			02/26/14 02:54	1
Trichlorofluoromethane	0.94	J	1.0	0.88	ug/L			02/26/14 02:54	1
Vinyl chloride	85		1.0	0.90	ug/L			02/26/14 02:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		02/26/14 02:54	1
4-Bromofluorobenzene (Surr)	97		73 - 120		02/26/14 02:54	1
Toluene-d8 (Surr)	100		71 - 126		02/26/14 02:54	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1700		25	21	ug/L			02/26/14 15:11	25
1,1,2,2-Tetrachloroethane	ND		25	5.3	ug/L			02/26/14 15:11	25
1,1,2-Trichloroethane	ND		25	5.8	ug/L			02/26/14 15:11	25
1,1,2-Trichlorotrifluoroethane	ND		25	7.8	ug/L			02/26/14 15:11	25
1,1-Dichloroethane	81		25	9.5	ug/L			02/26/14 15:11	25

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-291-022014

Lab Sample ID: 480-55128-33

Date Collected: 02/20/14 11:35

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	150		25	7.3	ug/L			02/26/14 15:11	25
1,2,3-Trimethylbenzene	ND		25	6.5	ug/L			02/26/14 15:11	25
1,2,4-Trichlorobenzene	ND		25	10	ug/L			02/26/14 15:11	25
1,2,4-Trimethylbenzene	ND		25	19	ug/L			02/26/14 15:11	25
1,2-Dibromo-3-Chloropropane	ND		25	9.8	ug/L			02/26/14 15:11	25
1,2-Dibromoethane	ND		25	18	ug/L			02/26/14 15:11	25
1,2-Dichlorobenzene	ND		25	20	ug/L			02/26/14 15:11	25
1,2-Dichloroethane	ND		25	5.3	ug/L			02/26/14 15:11	25
1,2-Dichloropropane	ND		25	18	ug/L			02/26/14 15:11	25
1,3,5-Trimethylbenzene	ND		25	19	ug/L			02/26/14 15:11	25
1,3-Dichlorobenzene	ND		25	20	ug/L			02/26/14 15:11	25
1,4-Dichlorobenzene	ND		25	21	ug/L			02/26/14 15:11	25
2-Butanone (MEK)	ND		250	33	ug/L			02/26/14 15:11	25
2-Hexanone	ND		130	31	ug/L			02/26/14 15:11	25
4-Methyl-2-pentanone (MIBK)	ND		130	53	ug/L			02/26/14 15:11	25
Acetone	ND		250	75	ug/L			02/26/14 15:11	25
Benzene	ND		25	10	ug/L			02/26/14 15:11	25
Bromodichloromethane	ND		25	9.8	ug/L			02/26/14 15:11	25
Bromoform	ND		25	6.5	ug/L			02/26/14 15:11	25
Bromomethane	ND		25	17	ug/L			02/26/14 15:11	25
Carbon disulfide	ND		25	4.8	ug/L			02/26/14 15:11	25
Carbon tetrachloride	ND		25	6.8	ug/L			02/26/14 15:11	25
Chlorobenzene	ND		25	19	ug/L			02/26/14 15:11	25
Chloroethane	ND		25	8.0	ug/L			02/26/14 15:11	25
Chloroform	ND		25	8.5	ug/L			02/26/14 15:11	25
Chloromethane	ND		25	8.8	ug/L			02/26/14 15:11	25
cis-1,2-Dichloroethene	400		25	20	ug/L			02/26/14 15:11	25
cis-1,3-Dichloropropene	ND		25	9.0	ug/L			02/26/14 15:11	25
Cyclohexane	ND		25	4.5	ug/L			02/26/14 15:11	25
Dibromochloromethane	ND		25	8.0	ug/L			02/26/14 15:11	25
Dichlorodifluoromethane	ND		25	17	ug/L			02/26/14 15:11	25
Ethylbenzene	ND		25	19	ug/L			02/26/14 15:11	25
Isopropylbenzene	ND		25	20	ug/L			02/26/14 15:11	25
Methyl acetate	ND		63	13	ug/L			02/26/14 15:11	25
Methyl tert-butyl ether	ND		25	4.0	ug/L			02/26/14 15:11	25
Methylcyclohexane	ND		25	4.0	ug/L			02/26/14 15:11	25
Methylene Chloride	ND		25	11	ug/L			02/26/14 15:11	25
Styrene	ND		25	18	ug/L			02/26/14 15:11	25
Tetrachloroethene	ND		25	9.0	ug/L			02/26/14 15:11	25
Toluene	ND		25	13	ug/L			02/26/14 15:11	25
trans-1,2-Dichloroethene	ND		25	23	ug/L			02/26/14 15:11	25
trans-1,3-Dichloropropene	ND		25	9.3	ug/L			02/26/14 15:11	25
Trichloroethene	450		25	12	ug/L			02/26/14 15:11	25
Trichlorofluoromethane	ND		25	22	ug/L			02/26/14 15:11	25
Vinyl chloride	84		25	23	ug/L			02/26/14 15:11	25
Xylenes, Total	ND		50	17	ug/L			02/26/14 15:11	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		02/26/14 15:11	25
4-Bromofluorobenzene (Surr)	100		73 - 120		02/26/14 15:11	25

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-29I-022014

Lab Sample ID: 480-55128-33

Date Collected: 02/20/14 11:35

Matrix: Water

Date Received: 02/24/14 16:37

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		71 - 126		02/26/14 15:11	25

Client Sample ID: 4009-29D-022014

Lab Sample ID: 480-55128-34

Date Collected: 02/20/14 11:40

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/26/14 15:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 15:33	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 15:33	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/26/14 15:33	1
1,1-Dichloroethane	1.1		1.0	0.38	ug/L			02/26/14 15:33	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/14 15:33	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 15:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 15:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 15:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 15:33	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 15:33	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 15:33	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 15:33	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 15:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 15:33	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 15:33	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 15:33	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 15:33	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 15:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 15:33	1
Acetone	6.9 J		10	3.0	ug/L			02/26/14 15:33	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 15:33	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 15:33	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 15:33	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 15:33	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 15:33	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 15:33	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 15:33	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/14 15:33	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 15:33	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 15:33	1
cis-1,2-Dichloroethene	1.4		1.0	0.81	ug/L			02/26/14 15:33	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 15:33	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 15:33	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 15:33	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 15:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 15:33	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 15:33	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 15:33	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 15:33	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 15:33	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-29D-022014

Lab Sample ID: 480-55128-34

Date Collected: 02/20/14 11:40

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 15:33	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 15:33	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 15:33	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 15:33	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 15:33	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 15:33	1
Trichloroethene	1.8		1.0	0.46	ug/L			02/26/14 15:33	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 15:33	1
Vinyl chloride	4.7		1.0	0.90	ug/L			02/26/14 15:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137					02/26/14 15:33	1
4-Bromofluorobenzene (Surr)	99		73 - 120					02/26/14 15:33	1
Toluene-d8 (Surr)	102		71 - 126					02/26/14 15:33	1

Client Sample ID: ERT-1I-022014

Lab Sample ID: 480-55128-35

Date Collected: 02/20/14 15:15

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/26/14 03:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 03:36	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 03:36	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/26/14 03:36	1
1,1-Dichloroethane	4.1		1.0	0.38	ug/L			02/26/14 03:36	1
1,1-Dichloroethene	0.99 J		1.0	0.29	ug/L			02/26/14 03:36	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 03:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 03:36	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 03:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 03:36	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 03:36	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 03:36	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 03:36	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 03:36	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 03:36	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 03:36	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 03:36	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 03:36	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 03:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 03:36	1
Acetone	4.8 J		10	3.0	ug/L			02/26/14 03:36	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 03:36	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 03:36	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 03:36	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 03:36	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 03:36	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 03:36	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 03:36	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-1I-022014

Lab Sample ID: 480-55128-35

Date Collected: 02/20/14 15:15

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.0	0.32	ug/L			02/26/14 03:36	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 03:36	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 03:36	1
cis-1,2-Dichloroethene	740	E	1.0	0.81	ug/L			02/26/14 03:36	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 03:36	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 03:36	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 03:36	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 03:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 03:36	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 03:36	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 03:36	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 03:36	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 03:36	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 03:36	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 03:36	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 03:36	1
Toluene	0.57	J	1.0	0.51	ug/L			02/26/14 03:36	1
trans-1,2-Dichloroethene	1.5		1.0	0.90	ug/L			02/26/14 03:36	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 03:36	1
Trichloroethene	1.9		1.0	0.46	ug/L			02/26/14 03:36	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 03:36	1
Vinyl chloride	11		1.0	0.90	ug/L			02/26/14 03:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		02/26/14 03:36	1
4-Bromofluorobenzene (Surr)	97		73 - 120		02/26/14 03:36	1
Toluene-d8 (Surr)	100		71 - 126		02/26/14 03:36	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			02/26/14 15:54	10
1,1,1,2-Tetrachloroethane	ND		10	2.1	ug/L			02/26/14 15:54	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			02/26/14 15:54	10
1,1,2-Trichlorotrifluoroethane	ND		10	3.1	ug/L			02/26/14 15:54	10
1,1-Dichloroethane	4.3	J	10	3.8	ug/L			02/26/14 15:54	10
1,1-Dichloroethene	ND		10	2.9	ug/L			02/26/14 15:54	10
1,2,3-Trimethylbenzene	ND		10	2.6	ug/L			02/26/14 15:54	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			02/26/14 15:54	10
1,2,4-Trimethylbenzene	ND		10	7.5	ug/L			02/26/14 15:54	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			02/26/14 15:54	10
1,2-Dibromoethane	ND		10	7.3	ug/L			02/26/14 15:54	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			02/26/14 15:54	10
1,2-Dichloroethane	ND		10	2.1	ug/L			02/26/14 15:54	10
1,2-Dichloropropane	ND		10	7.2	ug/L			02/26/14 15:54	10
1,3,5-Trimethylbenzene	ND		10	7.7	ug/L			02/26/14 15:54	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			02/26/14 15:54	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			02/26/14 15:54	10
2-Butanone (MEK)	ND		100	13	ug/L			02/26/14 15:54	10
2-Hexanone	ND		50	12	ug/L			02/26/14 15:54	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-1I-022014

Lab Sample ID: 480-55128-35

Date Collected: 02/20/14 15:15

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			02/26/14 15:54	10
Acetone	ND		100	30	ug/L			02/26/14 15:54	10
Benzene	ND		10	4.1	ug/L			02/26/14 15:54	10
Bromodichloromethane	ND		10	3.9	ug/L			02/26/14 15:54	10
Bromoform	ND		10	2.6	ug/L			02/26/14 15:54	10
Bromomethane	ND		10	6.9	ug/L			02/26/14 15:54	10
Carbon disulfide	ND		10	1.9	ug/L			02/26/14 15:54	10
Carbon tetrachloride	ND		10	2.7	ug/L			02/26/14 15:54	10
Chlorobenzene	ND		10	7.5	ug/L			02/26/14 15:54	10
Chloroethane	ND		10	3.2	ug/L			02/26/14 15:54	10
Chloroform	ND		10	3.4	ug/L			02/26/14 15:54	10
Chloromethane	ND		10	3.5	ug/L			02/26/14 15:54	10
cis-1,2-Dichloroethene	990		10	8.1	ug/L			02/26/14 15:54	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			02/26/14 15:54	10
Cyclohexane	ND		10	1.8	ug/L			02/26/14 15:54	10
Dibromochloromethane	ND		10	3.2	ug/L			02/26/14 15:54	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			02/26/14 15:54	10
Ethylbenzene	ND		10	7.4	ug/L			02/26/14 15:54	10
Isopropylbenzene	ND		10	7.9	ug/L			02/26/14 15:54	10
Methyl acetate	ND		25	5.0	ug/L			02/26/14 15:54	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			02/26/14 15:54	10
Methylcyclohexane	ND		10	1.6	ug/L			02/26/14 15:54	10
Methylene Chloride	ND		10	4.4	ug/L			02/26/14 15:54	10
Styrene	ND		10	7.3	ug/L			02/26/14 15:54	10
Tetrachloroethene	ND		10	3.6	ug/L			02/26/14 15:54	10
Toluene	ND		10	5.1	ug/L			02/26/14 15:54	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			02/26/14 15:54	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			02/26/14 15:54	10
Trichloroethene	ND		10	4.6	ug/L			02/26/14 15:54	10
Trichlorofluoromethane	ND		10	8.8	ug/L			02/26/14 15:54	10
Vinyl chloride	10		10	9.0	ug/L			02/26/14 15:54	10
Xylenes, Total	ND		20	6.6	ug/L			02/26/14 15:54	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137					02/26/14 15:54	10
4-Bromofluorobenzene (Surr)	98		73 - 120					02/26/14 15:54	10
Toluene-d8 (Surr)	103		71 - 126					02/26/14 15:54	10

Client Sample ID: ERT-1D-022014

Lab Sample ID: 480-55128-36

Date Collected: 02/20/14 15:20

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/26/14 03:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 03:58	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 03:58	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/26/14 03:58	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/14 03:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/14 03:58	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-1D-022014

Lab Sample ID: 480-55128-36

Date Collected: 02/20/14 15:20

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 03:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 03:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 03:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 03:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 03:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 03:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 03:58	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 03:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 03:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 03:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 03:58	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 03:58	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 03:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 03:58	1
Acetone	8.1	J	10	3.0	ug/L			02/26/14 03:58	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 03:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 03:58	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 03:58	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 03:58	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 03:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 03:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 03:58	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/14 03:58	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 03:58	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 03:58	1
cis-1,2-Dichloroethene	7.7		1.0	0.81	ug/L			02/26/14 03:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 03:58	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 03:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 03:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 03:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 03:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 03:58	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 03:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 03:58	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 03:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 03:58	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 03:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 03:58	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 03:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 03:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 03:58	1
Trichloroethene	1.6		1.0	0.46	ug/L			02/26/14 03:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 03:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/14 03:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 03:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		02/26/14 03:58	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/26/14 03:58	1
Toluene-d8 (Surr)	102		71 - 126		02/26/14 03:58	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-3S-022014

Lab Sample ID: 480-55128-37

Date Collected: 02/20/14 16:40

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3600	E	1.0	0.82	ug/L			02/26/14 04:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 04:20	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 04:20	1
1,1,1,2-Trichlorotrifluoroethane	3.0		1.0	0.31	ug/L			02/26/14 04:20	1
1,1-Dichloroethane	550	E	1.0	0.38	ug/L			02/26/14 04:20	1
1,1-Dichloroethene	1000	E	1.0	0.29	ug/L			02/26/14 04:20	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 04:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 04:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 04:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 04:20	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 04:20	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 04:20	1
1,2-Dichloroethane	1.2		1.0	0.21	ug/L			02/26/14 04:20	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 04:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 04:20	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 04:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 04:20	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 04:20	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 04:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 04:20	1
Acetone	5.8	J	10	3.0	ug/L			02/26/14 04:20	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 04:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 04:20	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 04:20	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 04:20	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 04:20	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 04:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 04:20	1
Chloroethane	76		1.0	0.32	ug/L			02/26/14 04:20	1
Chloroform	2.4		1.0	0.34	ug/L			02/26/14 04:20	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 04:20	1
cis-1,2-Dichloroethene	23		1.0	0.81	ug/L			02/26/14 04:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 04:20	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 04:20	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 04:20	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 04:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 04:20	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 04:20	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 04:20	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 04:20	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 04:20	1
Methylene Chloride	8.6		1.0	0.44	ug/L			02/26/14 04:20	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 04:20	1
Tetrachloroethene	2.3		1.0	0.36	ug/L			02/26/14 04:20	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 04:20	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 04:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 04:20	1
Trichloroethene	28		1.0	0.46	ug/L			02/26/14 04:20	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 04:20	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-3S-022014

Lab Sample ID: 480-55128-37

Date Collected: 02/20/14 16:40

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.9		1.0	0.90	ug/L			02/26/14 04:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137					02/26/14 04:20	1
4-Bromofluorobenzene (Surr)	100		73 - 120					02/26/14 04:20	1
Toluene-d8 (Surr)	103		71 - 126					02/26/14 04:20	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5100		100	82	ug/L			02/26/14 16:16	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			02/26/14 16:16	100
1,1,2-Trichloroethane	ND		100	23	ug/L			02/26/14 16:16	100
1,1,2-Trichlorotrifluoroethane	ND		100	31	ug/L			02/26/14 16:16	100
1,1-Dichloroethane	570		100	38	ug/L			02/26/14 16:16	100
1,1-Dichloroethene	720		100	29	ug/L			02/26/14 16:16	100
1,2,3-Trimethylbenzene	ND		100	26	ug/L			02/26/14 16:16	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			02/26/14 16:16	100
1,2,4-Trimethylbenzene	ND		100	75	ug/L			02/26/14 16:16	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			02/26/14 16:16	100
1,2-Dibromoethane	ND		100	73	ug/L			02/26/14 16:16	100
1,2-Dichlorobenzene	ND		100	79	ug/L			02/26/14 16:16	100
1,2-Dichloroethane	ND		100	21	ug/L			02/26/14 16:16	100
1,2-Dichloropropane	ND		100	72	ug/L			02/26/14 16:16	100
1,3,5-Trimethylbenzene	ND		100	77	ug/L			02/26/14 16:16	100
1,3-Dichlorobenzene	ND		100	78	ug/L			02/26/14 16:16	100
1,4-Dichlorobenzene	ND		100	84	ug/L			02/26/14 16:16	100
2-Butanone (MEK)	ND		1000	130	ug/L			02/26/14 16:16	100
2-Hexanone	ND		500	120	ug/L			02/26/14 16:16	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			02/26/14 16:16	100
Acetone	ND		1000	300	ug/L			02/26/14 16:16	100
Benzene	ND		100	41	ug/L			02/26/14 16:16	100
Bromodichloromethane	ND		100	39	ug/L			02/26/14 16:16	100
Bromoform	ND		100	26	ug/L			02/26/14 16:16	100
Bromomethane	ND		100	69	ug/L			02/26/14 16:16	100
Carbon disulfide	ND		100	19	ug/L			02/26/14 16:16	100
Carbon tetrachloride	ND		100	27	ug/L			02/26/14 16:16	100
Chlorobenzene	ND		100	75	ug/L			02/26/14 16:16	100
Chloroethane	ND		100	32	ug/L			02/26/14 16:16	100
Chloroform	ND		100	34	ug/L			02/26/14 16:16	100
Chloromethane	ND		100	35	ug/L			02/26/14 16:16	100
cis-1,2-Dichloroethene	ND		100	81	ug/L			02/26/14 16:16	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			02/26/14 16:16	100
Cyclohexane	ND		100	18	ug/L			02/26/14 16:16	100
Dibromochloromethane	ND		100	32	ug/L			02/26/14 16:16	100
Dichlorodifluoromethane	ND		100	68	ug/L			02/26/14 16:16	100
Ethylbenzene	ND		100	74	ug/L			02/26/14 16:16	100
Isopropylbenzene	ND		100	79	ug/L			02/26/14 16:16	100
Methyl acetate	ND		250	50	ug/L			02/26/14 16:16	100
Methyl tert-butyl ether	ND		100	16	ug/L			02/26/14 16:16	100

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-3S-022014

Lab Sample ID: 480-55128-37

Date Collected: 02/20/14 16:40

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND		100	16	ug/L			02/26/14 16:16	100
Methylene Chloride	ND		100	44	ug/L			02/26/14 16:16	100
Styrene	ND		100	73	ug/L			02/26/14 16:16	100
Tetrachloroethene	ND		100	36	ug/L			02/26/14 16:16	100
Toluene	ND		100	51	ug/L			02/26/14 16:16	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			02/26/14 16:16	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			02/26/14 16:16	100
Trichloroethene	ND		100	46	ug/L			02/26/14 16:16	100
Trichlorofluoromethane	ND		100	88	ug/L			02/26/14 16:16	100
Vinyl chloride	ND		100	90	ug/L			02/26/14 16:16	100
Xylenes, Total	ND		200	66	ug/L			02/26/14 16:16	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		02/26/14 16:16	100
4-Bromofluorobenzene (Surr)	98		73 - 120		02/26/14 16:16	100
Toluene-d8 (Surr)	101		71 - 126		02/26/14 16:16	100

Client Sample ID: ERT-3I-022014

Lab Sample ID: 480-55128-38

Date Collected: 02/20/14 16:45

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2100	E	1.0	0.82	ug/L			02/26/14 04:42	1
1,1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 04:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 04:42	1
1,1,2-Trichlorotrifluoroethane	1.6		1.0	0.31	ug/L			02/26/14 04:42	1
1,1-Dichloroethane	140	E	1.0	0.38	ug/L			02/26/14 04:42	1
1,1-Dichloroethene	270	E	1.0	0.29	ug/L			02/26/14 04:42	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 04:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 04:42	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 04:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 04:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 04:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 04:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 04:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 04:42	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 04:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 04:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 04:42	1
2-Butanone (MEK)	3.1	J	10	1.3	ug/L			02/26/14 04:42	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 04:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 04:42	1
Acetone	8.8	J	10	3.0	ug/L			02/26/14 04:42	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 04:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 04:42	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 04:42	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 04:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 04:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 04:42	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-3I-022014

Lab Sample ID: 480-55128-38

Date Collected: 02/20/14 16:45

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 04:42	1
Chloroethane	3.3		1.0	0.32	ug/L			02/26/14 04:42	1
Chloroform	0.82	J	1.0	0.34	ug/L			02/26/14 04:42	1
Chloromethane	1.9		1.0	0.35	ug/L			02/26/14 04:42	1
cis-1,2-Dichloroethene	3.9		1.0	0.81	ug/L			02/26/14 04:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 04:42	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 04:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 04:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 04:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 04:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 04:42	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 04:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 04:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 04:42	1
Methylene Chloride	0.77	J	1.0	0.44	ug/L			02/26/14 04:42	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 04:42	1
Tetrachloroethene	1.3		1.0	0.36	ug/L			02/26/14 04:42	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 04:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 04:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 04:42	1
Trichloroethene	8.3		1.0	0.46	ug/L			02/26/14 04:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 04:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/14 04:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		02/26/14 04:42	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/26/14 04:42	1
Toluene-d8 (Surr)	100		71 - 126		02/26/14 04:42	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2800		50	41	ug/L			02/26/14 16:38	50
1,1,1,2-Tetrachloroethane	ND		50	11	ug/L			02/26/14 16:38	50
1,1,1,2-Trichloroethane	ND		50	12	ug/L			02/26/14 16:38	50
1,1,1,2-Trichlorotrifluoroethane	ND		50	16	ug/L			02/26/14 16:38	50
1,1-Dichloroethane	150		50	19	ug/L			02/26/14 16:38	50
1,1-Dichloroethene	160		50	15	ug/L			02/26/14 16:38	50
1,2,3-Trimethylbenzene	ND		50	13	ug/L			02/26/14 16:38	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			02/26/14 16:38	50
1,2,4-Trimethylbenzene	ND		50	38	ug/L			02/26/14 16:38	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			02/26/14 16:38	50
1,2-Dibromoethane	ND		50	37	ug/L			02/26/14 16:38	50
1,2-Dichlorobenzene	ND		50	40	ug/L			02/26/14 16:38	50
1,2-Dichloroethane	ND		50	11	ug/L			02/26/14 16:38	50
1,2-Dichloropropane	ND		50	36	ug/L			02/26/14 16:38	50
1,3,5-Trimethylbenzene	ND		50	39	ug/L			02/26/14 16:38	50
1,3-Dichlorobenzene	ND		50	39	ug/L			02/26/14 16:38	50
1,4-Dichlorobenzene	ND		50	42	ug/L			02/26/14 16:38	50
2-Butanone (MEK)	ND		500	66	ug/L			02/26/14 16:38	50

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-3I-022014

Lab Sample ID: 480-55128-38

Date Collected: 02/20/14 16:45

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		250	62	ug/L			02/26/14 16:38	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			02/26/14 16:38	50
Acetone	ND		500	150	ug/L			02/26/14 16:38	50
Benzene	ND		50	21	ug/L			02/26/14 16:38	50
Bromodichloromethane	ND		50	20	ug/L			02/26/14 16:38	50
Bromoform	ND		50	13	ug/L			02/26/14 16:38	50
Bromomethane	ND		50	35	ug/L			02/26/14 16:38	50
Carbon disulfide	ND		50	9.5	ug/L			02/26/14 16:38	50
Carbon tetrachloride	ND		50	14	ug/L			02/26/14 16:38	50
Chlorobenzene	ND		50	38	ug/L			02/26/14 16:38	50
Chloroethane	ND		50	16	ug/L			02/26/14 16:38	50
Chloroform	ND		50	17	ug/L			02/26/14 16:38	50
Chloromethane	ND		50	18	ug/L			02/26/14 16:38	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			02/26/14 16:38	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			02/26/14 16:38	50
Cyclohexane	ND		50	9.0	ug/L			02/26/14 16:38	50
Dibromochloromethane	ND		50	16	ug/L			02/26/14 16:38	50
Dichlorodifluoromethane	ND		50	34	ug/L			02/26/14 16:38	50
Ethylbenzene	ND		50	37	ug/L			02/26/14 16:38	50
Isopropylbenzene	ND		50	40	ug/L			02/26/14 16:38	50
Methyl acetate	ND		130	25	ug/L			02/26/14 16:38	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			02/26/14 16:38	50
Methylcyclohexane	ND		50	8.0	ug/L			02/26/14 16:38	50
Methylene Chloride	ND		50	22	ug/L			02/26/14 16:38	50
Styrene	ND		50	37	ug/L			02/26/14 16:38	50
Tetrachloroethene	ND		50	18	ug/L			02/26/14 16:38	50
Toluene	ND		50	26	ug/L			02/26/14 16:38	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			02/26/14 16:38	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			02/26/14 16:38	50
Trichloroethene	ND		50	23	ug/L			02/26/14 16:38	50
Trichlorofluoromethane	ND		50	44	ug/L			02/26/14 16:38	50
Vinyl chloride	ND		50	45	ug/L			02/26/14 16:38	50
Xylenes, Total	ND		100	33	ug/L			02/26/14 16:38	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137					02/26/14 16:38	50
4-Bromofluorobenzene (Surr)	99		73 - 120					02/26/14 16:38	50
Toluene-d8 (Surr)	101		71 - 126					02/26/14 16:38	50

Client Sample ID: ERT-3D-022014

Lab Sample ID: 480-55128-39

Date Collected: 02/20/14 16:50

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	16		1.0	0.82	ug/L			02/26/14 05:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 05:03	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 05:03	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/26/14 05:03	1
1,1-Dichloroethane	1100	E	1.0	0.38	ug/L			02/26/14 05:03	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-3D-022014

Lab Sample ID: 480-55128-39

Date Collected: 02/20/14 16:50

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	8.3		1.0	0.29	ug/L			02/26/14 05:03	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 05:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 05:03	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 05:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 05:03	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 05:03	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 05:03	1
1,2-Dichloroethane	2.3		1.0	0.21	ug/L			02/26/14 05:03	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 05:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 05:03	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 05:03	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 05:03	1
2-Butanone (MEK)	1.4	J	10	1.3	ug/L			02/26/14 05:03	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 05:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 05:03	1
Acetone	7.1	J	10	3.0	ug/L			02/26/14 05:03	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 05:03	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 05:03	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 05:03	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 05:03	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 05:03	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 05:03	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 05:03	1
Chloroethane	21		1.0	0.32	ug/L			02/26/14 05:03	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 05:03	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 05:03	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/14 05:03	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 05:03	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 05:03	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 05:03	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 05:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 05:03	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 05:03	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 05:03	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 05:03	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 05:03	1
Methylene Chloride	0.61	J	1.0	0.44	ug/L			02/26/14 05:03	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 05:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 05:03	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 05:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 05:03	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 05:03	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/14 05:03	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 05:03	1
Vinyl chloride	2.1		1.0	0.90	ug/L			02/26/14 05:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 05:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		02/26/14 05:03	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/26/14 05:03	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-3D-022014

Lab Sample ID: 480-55128-39

Date Collected: 02/20/14 16:50

Matrix: Water

Date Received: 02/24/14 16:37

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		71 - 126		02/26/14 05:03	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	16	J	20	16	ug/L			02/26/14 16:59	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			02/26/14 16:59	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			02/26/14 16:59	20
1,1,2-Trichlorotrifluoroethane	ND		20	6.2	ug/L			02/26/14 16:59	20
1,1-Dichloroethane	1700		20	7.6	ug/L			02/26/14 16:59	20
1,1-Dichloroethene	ND		20	5.8	ug/L			02/26/14 16:59	20
1,2,3-Trimethylbenzene	ND		20	5.2	ug/L			02/26/14 16:59	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			02/26/14 16:59	20
1,2,4-Trimethylbenzene	ND		20	15	ug/L			02/26/14 16:59	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			02/26/14 16:59	20
1,2-Dibromoethane	ND		20	15	ug/L			02/26/14 16:59	20
1,2-Dichlorobenzene	ND		20	16	ug/L			02/26/14 16:59	20
1,2-Dichloroethane	ND		20	4.2	ug/L			02/26/14 16:59	20
1,2-Dichloropropane	ND		20	14	ug/L			02/26/14 16:59	20
1,3,5-Trimethylbenzene	ND		20	15	ug/L			02/26/14 16:59	20
1,3-Dichlorobenzene	ND		20	16	ug/L			02/26/14 16:59	20
1,4-Dichlorobenzene	ND		20	17	ug/L			02/26/14 16:59	20
2-Butanone (MEK)	ND		200	26	ug/L			02/26/14 16:59	20
2-Hexanone	ND		100	25	ug/L			02/26/14 16:59	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			02/26/14 16:59	20
Acetone	ND		200	60	ug/L			02/26/14 16:59	20
Benzene	ND		20	8.2	ug/L			02/26/14 16:59	20
Bromodichloromethane	ND		20	7.8	ug/L			02/26/14 16:59	20
Bromoform	ND		20	5.2	ug/L			02/26/14 16:59	20
Bromomethane	ND		20	14	ug/L			02/26/14 16:59	20
Carbon disulfide	ND		20	3.8	ug/L			02/26/14 16:59	20
Carbon tetrachloride	ND		20	5.4	ug/L			02/26/14 16:59	20
Chlorobenzene	ND		20	15	ug/L			02/26/14 16:59	20
Chloroethane	21		20	6.4	ug/L			02/26/14 16:59	20
Chloroform	ND		20	6.8	ug/L			02/26/14 16:59	20
Chloromethane	ND		20	7.0	ug/L			02/26/14 16:59	20
cis-1,2-Dichloroethene	ND		20	16	ug/L			02/26/14 16:59	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			02/26/14 16:59	20
Cyclohexane	ND		20	3.6	ug/L			02/26/14 16:59	20
Dibromochloromethane	ND		20	6.4	ug/L			02/26/14 16:59	20
Dichlorodifluoromethane	ND		20	14	ug/L			02/26/14 16:59	20
Ethylbenzene	ND		20	15	ug/L			02/26/14 16:59	20
Isopropylbenzene	ND		20	16	ug/L			02/26/14 16:59	20
Methyl acetate	ND		50	10	ug/L			02/26/14 16:59	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			02/26/14 16:59	20
Methylcyclohexane	ND		20	3.2	ug/L			02/26/14 16:59	20
Methylene Chloride	ND		20	8.8	ug/L			02/26/14 16:59	20
Styrene	ND		20	15	ug/L			02/26/14 16:59	20
Tetrachloroethene	ND		20	7.2	ug/L			02/26/14 16:59	20
Toluene	ND		20	10	ug/L			02/26/14 16:59	20

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-3D-022014

Lab Sample ID: 480-55128-39

Date Collected: 02/20/14 16:50

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		20	18	ug/L			02/26/14 16:59	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			02/26/14 16:59	20
Trichloroethene	ND		20	9.2	ug/L			02/26/14 16:59	20
Trichlorofluoromethane	ND		20	18	ug/L			02/26/14 16:59	20
Vinyl chloride	ND		20	18	ug/L			02/26/14 16:59	20
Xylenes, Total	ND		40	13	ug/L			02/26/14 16:59	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		02/26/14 16:59	20
4-Bromofluorobenzene (Surr)	97		73 - 120		02/26/14 16:59	20
Toluene-d8 (Surr)	100		71 - 126		02/26/14 16:59	20

Client Sample ID: ERT-4S-022014

Lab Sample ID: 480-55128-40

Date Collected: 02/20/14 16:35

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	60000	E	5.0	4.1	ug/L			02/26/14 05:25	5
1,1,1,2-Tetrachloroethane	49		5.0	1.1	ug/L			02/26/14 05:25	5
1,1,2-Trichloroethane	1500	E	5.0	1.2	ug/L			02/26/14 05:25	5
1,1,2-Trichlorotrifluoroethane	96		5.0	1.6	ug/L			02/26/14 05:25	5
1,1-Dichloroethane	290		5.0	1.9	ug/L			02/26/14 05:25	5
1,1-Dichloroethene	36000	E	5.0	1.5	ug/L			02/26/14 05:25	5
1,2,3-Trimethylbenzene	30		5.0	1.3	ug/L			02/26/14 05:25	5
1,2,4-Trichlorobenzene	26		5.0	2.1	ug/L			02/26/14 05:25	5
1,2,4-Trimethylbenzene	24		5.0	3.8	ug/L			02/26/14 05:25	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			02/26/14 05:25	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			02/26/14 05:25	5
1,2-Dichlorobenzene	42		5.0	4.0	ug/L			02/26/14 05:25	5
1,2-Dichloroethane	64		5.0	1.1	ug/L			02/26/14 05:25	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			02/26/14 05:25	5
1,3,5-Trimethylbenzene	4.0	J	5.0	3.9	ug/L			02/26/14 05:25	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			02/26/14 05:25	5
1,4-Dichlorobenzene	7.8		5.0	4.2	ug/L			02/26/14 05:25	5
2-Butanone (MEK)	ND		50	6.6	ug/L			02/26/14 05:25	5
2-Hexanone	ND		25	6.2	ug/L			02/26/14 05:25	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			02/26/14 05:25	5
Acetone	ND		50	15	ug/L			02/26/14 05:25	5
Benzene	14		5.0	2.1	ug/L			02/26/14 05:25	5
Bromodichloromethane	11		5.0	2.0	ug/L			02/26/14 05:25	5
Bromoform	ND		5.0	1.3	ug/L			02/26/14 05:25	5
Bromomethane	ND		5.0	3.5	ug/L			02/26/14 05:25	5
Carbon disulfide	ND		5.0	0.95	ug/L			02/26/14 05:25	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			02/26/14 05:25	5
Chlorobenzene	ND		5.0	3.8	ug/L			02/26/14 05:25	5
Chloroethane	ND		5.0	1.6	ug/L			02/26/14 05:25	5
Chloroform	120		5.0	1.7	ug/L			02/26/14 05:25	5
Chloromethane	ND		5.0	1.8	ug/L			02/26/14 05:25	5
cis-1,2-Dichloroethene	110		5.0	4.1	ug/L			02/26/14 05:25	5

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-4S-022014

Lab Sample ID: 480-55128-40

Date Collected: 02/20/14 16:35

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			02/26/14 05:25	5
Cyclohexane	ND		5.0	0.90	ug/L			02/26/14 05:25	5
Dibromochloromethane	ND		5.0	1.6	ug/L			02/26/14 05:25	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			02/26/14 05:25	5
Ethylbenzene	23		5.0	3.7	ug/L			02/26/14 05:25	5
Isopropylbenzene	ND		5.0	4.0	ug/L			02/26/14 05:25	5
Methyl acetate	ND		13	2.5	ug/L			02/26/14 05:25	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			02/26/14 05:25	5
Methylcyclohexane	610	E	5.0	0.80	ug/L			02/26/14 05:25	5
Methylene Chloride	670	E	5.0	2.2	ug/L			02/26/14 05:25	5
Styrene	ND		5.0	3.7	ug/L			02/26/14 05:25	5
Tetrachloroethene	120		5.0	1.8	ug/L			02/26/14 05:25	5
Toluene	460		5.0	2.6	ug/L			02/26/14 05:25	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			02/26/14 05:25	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			02/26/14 05:25	5
Trichloroethene	59000	E	5.0	2.3	ug/L			02/26/14 05:25	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			02/26/14 05:25	5
Vinyl chloride	ND		5.0	4.5	ug/L			02/26/14 05:25	5
Xylenes, Total	110		10	3.3	ug/L			02/26/14 05:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		02/26/14 05:25	5
4-Bromofluorobenzene (Surr)	89		73 - 120		02/26/14 05:25	5
Toluene-d8 (Surr)	106		71 - 126		02/26/14 05:25	5

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	310000		10000	8200	ug/L			02/27/14 03:02	10000
1,1,1,2-Tetrachloroethane	ND		10000	2100	ug/L			02/27/14 03:02	10000
1,1,2-Trichloroethane	ND		10000	2300	ug/L			02/27/14 03:02	10000
1,1,2-Trichlorotrifluoroethane	ND		10000	3100	ug/L			02/27/14 03:02	10000
1,1-Dichloroethane	ND		10000	3800	ug/L			02/27/14 03:02	10000
1,1-Dichloroethene	ND		10000	2900	ug/L			02/27/14 03:02	10000
1,2,3-Trimethylbenzene	ND		10000	2600	ug/L			02/27/14 03:02	10000
1,2,4-Trichlorobenzene	ND		10000	4100	ug/L			02/27/14 03:02	10000
1,2,4-Trimethylbenzene	ND		10000	7500	ug/L			02/27/14 03:02	10000
1,2-Dibromo-3-Chloropropane	ND		10000	3900	ug/L			02/27/14 03:02	10000
1,2-Dibromoethane	ND		10000	7300	ug/L			02/27/14 03:02	10000
1,2-Dichlorobenzene	ND		10000	7900	ug/L			02/27/14 03:02	10000
1,2-Dichloroethane	ND		10000	2100	ug/L			02/27/14 03:02	10000
1,2-Dichloropropane	ND		10000	7200	ug/L			02/27/14 03:02	10000
1,3,5-Trimethylbenzene	ND		10000	7700	ug/L			02/27/14 03:02	10000
1,3-Dichlorobenzene	ND		10000	7800	ug/L			02/27/14 03:02	10000
1,4-Dichlorobenzene	ND		10000	8400	ug/L			02/27/14 03:02	10000
2-Butanone (MEK)	ND		100000	13000	ug/L			02/27/14 03:02	10000
2-Hexanone	ND		50000	12000	ug/L			02/27/14 03:02	10000
4-Methyl-2-pentanone (MIBK)	ND		50000	21000	ug/L			02/27/14 03:02	10000
Acetone	ND		100000	30000	ug/L			02/27/14 03:02	10000
Benzene	ND		10000	4100	ug/L			02/27/14 03:02	10000
Bromodichloromethane	ND		10000	3900	ug/L			02/27/14 03:02	10000

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-4S-022014

Lab Sample ID: 480-55128-40

Date Collected: 02/20/14 16:35

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		10000	2600	ug/L			02/27/14 03:02	10000
Bromomethane	ND		10000	6900	ug/L			02/27/14 03:02	10000
Carbon disulfide	ND		10000	1900	ug/L			02/27/14 03:02	10000
Carbon tetrachloride	ND		10000	2700	ug/L			02/27/14 03:02	10000
Chlorobenzene	ND		10000	7500	ug/L			02/27/14 03:02	10000
Chloroethane	ND		10000	3200	ug/L			02/27/14 03:02	10000
Chloroform	ND		10000	3400	ug/L			02/27/14 03:02	10000
Chloromethane	ND		10000	3500	ug/L			02/27/14 03:02	10000
cis-1,2-Dichloroethene	ND		10000	8100	ug/L			02/27/14 03:02	10000
cis-1,3-Dichloropropene	ND		10000	3600	ug/L			02/27/14 03:02	10000
Cyclohexane	ND		10000	1800	ug/L			02/27/14 03:02	10000
Dibromochloromethane	ND		10000	3200	ug/L			02/27/14 03:02	10000
Dichlorodifluoromethane	ND		10000	6800	ug/L			02/27/14 03:02	10000
Ethylbenzene	ND		10000	7400	ug/L			02/27/14 03:02	10000
Isopropylbenzene	ND		10000	7900	ug/L			02/27/14 03:02	10000
Methyl acetate	ND		25000	5000	ug/L			02/27/14 03:02	10000
Methyl tert-butyl ether	ND		10000	1600	ug/L			02/27/14 03:02	10000
Methylcyclohexane	ND		10000	1600	ug/L			02/27/14 03:02	10000
Methylene Chloride	ND		10000	4400	ug/L			02/27/14 03:02	10000
Styrene	ND		10000	7300	ug/L			02/27/14 03:02	10000
Tetrachloroethene	ND		10000	3600	ug/L			02/27/14 03:02	10000
Toluene	ND		10000	5100	ug/L			02/27/14 03:02	10000
trans-1,2-Dichloroethene	ND		10000	9000	ug/L			02/27/14 03:02	10000
trans-1,3-Dichloropropene	ND		10000	3700	ug/L			02/27/14 03:02	10000
Trichloroethene	510000		10000	4600	ug/L			02/27/14 03:02	10000
Trichlorofluoromethane	ND		10000	8800	ug/L			02/27/14 03:02	10000
Vinyl chloride	ND		10000	9000	ug/L			02/27/14 03:02	10000
Xylenes, Total	ND		20000	6600	ug/L			02/27/14 03:02	10000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		66 - 137					02/27/14 03:02	10000
4-Bromofluorobenzene (Surr)	103		73 - 120					02/27/14 03:02	10000
Toluene-d8 (Surr)	101		71 - 126					02/27/14 03:02	10000

Client Sample ID: ERT-4I-022014

Lab Sample ID: 480-55128-41

Date Collected: 02/20/14 16:20

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4800		80	66	ug/L			02/26/14 17:21	80
1,1,1,2-Tetrachloroethane	ND		80	17	ug/L			02/26/14 17:21	80
1,1,1,2-Trichloroethane	ND		80	18	ug/L			02/26/14 17:21	80
1,1,1,2-Trichlorotrifluoroethane	ND		80	25	ug/L			02/26/14 17:21	80
1,1-Dichloroethane	150		80	30	ug/L			02/26/14 17:21	80
1,1-Dichloroethene	310		80	23	ug/L			02/26/14 17:21	80
1,2,3-Trimethylbenzene	ND		80	21	ug/L			02/26/14 17:21	80
1,2,4-Trichlorobenzene	ND		80	33	ug/L			02/26/14 17:21	80
1,2,4-Trimethylbenzene	ND		80	60	ug/L			02/26/14 17:21	80
1,2-Dibromo-3-Chloropropane	ND		80	31	ug/L			02/26/14 17:21	80

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-4I-022014

Lab Sample ID: 480-55128-41

Date Collected: 02/20/14 16:20

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		80	58	ug/L			02/26/14 17:21	80
1,2-Dichlorobenzene	ND		80	63	ug/L			02/26/14 17:21	80
1,2-Dichloroethane	ND		80	17	ug/L			02/26/14 17:21	80
1,2-Dichloropropane	ND		80	58	ug/L			02/26/14 17:21	80
1,3,5-Trimethylbenzene	ND		80	62	ug/L			02/26/14 17:21	80
1,3-Dichlorobenzene	ND		80	62	ug/L			02/26/14 17:21	80
1,4-Dichlorobenzene	ND		80	67	ug/L			02/26/14 17:21	80
2-Butanone (MEK)	ND		800	110	ug/L			02/26/14 17:21	80
2-Hexanone	ND		400	99	ug/L			02/26/14 17:21	80
4-Methyl-2-pentanone (MIBK)	ND		400	170	ug/L			02/26/14 17:21	80
Acetone	ND		800	240	ug/L			02/26/14 17:21	80
Benzene	ND		80	33	ug/L			02/26/14 17:21	80
Bromodichloromethane	ND		80	31	ug/L			02/26/14 17:21	80
Bromoform	ND		80	21	ug/L			02/26/14 17:21	80
Bromomethane	ND		80	55	ug/L			02/26/14 17:21	80
Carbon disulfide	ND		80	15	ug/L			02/26/14 17:21	80
Carbon tetrachloride	ND		80	22	ug/L			02/26/14 17:21	80
Chlorobenzene	ND		80	60	ug/L			02/26/14 17:21	80
Chloroethane	ND		80	26	ug/L			02/26/14 17:21	80
Chloroform	ND		80	27	ug/L			02/26/14 17:21	80
Chloromethane	ND		80	28	ug/L			02/26/14 17:21	80
cis-1,2-Dichloroethene	ND		80	65	ug/L			02/26/14 17:21	80
cis-1,3-Dichloropropene	ND		80	29	ug/L			02/26/14 17:21	80
Cyclohexane	ND		80	14	ug/L			02/26/14 17:21	80
Dibromochloromethane	ND		80	26	ug/L			02/26/14 17:21	80
Dichlorodifluoromethane	ND		80	54	ug/L			02/26/14 17:21	80
Ethylbenzene	ND		80	59	ug/L			02/26/14 17:21	80
Isopropylbenzene	ND		80	63	ug/L			02/26/14 17:21	80
Methyl acetate	ND		200	40	ug/L			02/26/14 17:21	80
Methyl tert-butyl ether	ND		80	13	ug/L			02/26/14 17:21	80
Methylcyclohexane	ND		80	13	ug/L			02/26/14 17:21	80
Methylene Chloride	ND		80	35	ug/L			02/26/14 17:21	80
Styrene	ND		80	58	ug/L			02/26/14 17:21	80
Tetrachloroethene	ND		80	29	ug/L			02/26/14 17:21	80
Toluene	ND		80	41	ug/L			02/26/14 17:21	80
trans-1,2-Dichloroethene	ND		80	72	ug/L			02/26/14 17:21	80
trans-1,3-Dichloropropene	ND		80	30	ug/L			02/26/14 17:21	80
Trichloroethene	ND		80	37	ug/L			02/26/14 17:21	80
Trichlorofluoromethane	ND		80	70	ug/L			02/26/14 17:21	80
Vinyl chloride	ND		80	72	ug/L			02/26/14 17:21	80
Xylenes, Total	ND		160	53	ug/L			02/26/14 17:21	80

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		02/26/14 17:21	80
4-Bromofluorobenzene (Surr)	96		73 - 120		02/26/14 17:21	80
Toluene-d8 (Surr)	100		71 - 126		02/26/14 17:21	80

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-4D-022014

Lab Sample ID: 480-55128-42

Date Collected: 02/20/14 16:25

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4100		50	41	ug/L			02/26/14 17:42	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			02/26/14 17:42	50
1,1,2-Trichloroethane	ND		50	12	ug/L			02/26/14 17:42	50
1,1,2-Trichlorotrifluoroethane	ND		50	16	ug/L			02/26/14 17:42	50
1,1-Dichloroethane	1500		50	19	ug/L			02/26/14 17:42	50
1,1-Dichloroethene	230		50	15	ug/L			02/26/14 17:42	50
1,2,3-Trimethylbenzene	ND		50	13	ug/L			02/26/14 17:42	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			02/26/14 17:42	50
1,2,4-Trimethylbenzene	ND		50	38	ug/L			02/26/14 17:42	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			02/26/14 17:42	50
1,2-Dibromoethane	ND		50	37	ug/L			02/26/14 17:42	50
1,2-Dichlorobenzene	ND		50	40	ug/L			02/26/14 17:42	50
1,2-Dichloroethane	ND		50	11	ug/L			02/26/14 17:42	50
1,2-Dichloropropane	ND		50	36	ug/L			02/26/14 17:42	50
1,3,5-Trimethylbenzene	ND		50	39	ug/L			02/26/14 17:42	50
1,3-Dichlorobenzene	ND		50	39	ug/L			02/26/14 17:42	50
1,4-Dichlorobenzene	ND		50	42	ug/L			02/26/14 17:42	50
2-Butanone (MEK)	ND		500	66	ug/L			02/26/14 17:42	50
2-Hexanone	ND		250	62	ug/L			02/26/14 17:42	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			02/26/14 17:42	50
Acetone	ND		500	150	ug/L			02/26/14 17:42	50
Benzene	ND		50	21	ug/L			02/26/14 17:42	50
Bromodichloromethane	ND		50	20	ug/L			02/26/14 17:42	50
Bromoform	ND		50	13	ug/L			02/26/14 17:42	50
Bromomethane	ND		50	35	ug/L			02/26/14 17:42	50
Carbon disulfide	ND		50	9.5	ug/L			02/26/14 17:42	50
Carbon tetrachloride	ND		50	14	ug/L			02/26/14 17:42	50
Chlorobenzene	ND		50	38	ug/L			02/26/14 17:42	50
Chloroethane	ND		50	16	ug/L			02/26/14 17:42	50
Chloroform	ND		50	17	ug/L			02/26/14 17:42	50
Chloromethane	ND		50	18	ug/L			02/26/14 17:42	50
cis-1,2-Dichloroethene	100		50	41	ug/L			02/26/14 17:42	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			02/26/14 17:42	50
Cyclohexane	ND		50	9.0	ug/L			02/26/14 17:42	50
Dibromochloromethane	ND		50	16	ug/L			02/26/14 17:42	50
Dichlorodifluoromethane	ND		50	34	ug/L			02/26/14 17:42	50
Ethylbenzene	ND		50	37	ug/L			02/26/14 17:42	50
Isopropylbenzene	ND		50	40	ug/L			02/26/14 17:42	50
Methyl acetate	ND		130	25	ug/L			02/26/14 17:42	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			02/26/14 17:42	50
Methylcyclohexane	ND		50	8.0	ug/L			02/26/14 17:42	50
Methylene Chloride	ND		50	22	ug/L			02/26/14 17:42	50
Styrene	ND		50	37	ug/L			02/26/14 17:42	50
Tetrachloroethene	ND		50	18	ug/L			02/26/14 17:42	50
Toluene	ND		50	26	ug/L			02/26/14 17:42	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			02/26/14 17:42	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			02/26/14 17:42	50
Trichloroethene	80		50	23	ug/L			02/26/14 17:42	50
Trichlorofluoromethane	ND		50	44	ug/L			02/26/14 17:42	50

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-4D-022014

Lab Sample ID: 480-55128-42

Date Collected: 02/20/14 16:25

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		50	45	ug/L			02/26/14 17:42	50
Xylenes, Total	ND		100	33	ug/L			02/26/14 17:42	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137					02/26/14 17:42	50
4-Bromofluorobenzene (Surr)	97		73 - 120					02/26/14 17:42	50
Toluene-d8 (Surr)	100		71 - 126					02/26/14 17:42	50

Client Sample ID: ERT-7-022014

Lab Sample ID: 480-55128-43

Date Collected: 02/20/14 16:30

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.1		1.0	0.82	ug/L			02/26/14 18:04	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 18:04	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 18:04	1
1,1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/26/14 18:04	1
1,1-Dichloroethane	76		1.0	0.38	ug/L			02/26/14 18:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/14 18:04	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 18:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 18:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 18:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 18:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 18:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 18:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 18:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 18:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 18:04	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 18:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 18:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 18:04	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 18:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 18:04	1
Acetone	7.5 J		10	3.0	ug/L			02/26/14 18:04	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 18:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 18:04	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 18:04	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 18:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 18:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 18:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 18:04	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/14 18:04	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 18:04	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 18:04	1
cis-1,2-Dichloroethene	8.5		1.0	0.81	ug/L			02/26/14 18:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 18:04	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 18:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 18:04	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 18:04	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-7-022014

Lab Sample ID: 480-55128-43

Date Collected: 02/20/14 16:30

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 18:04	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 18:04	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 18:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 18:04	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 18:04	1
Methylene Chloride	2.6		1.0	0.44	ug/L			02/26/14 18:04	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 18:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 18:04	1
Toluene	0.54 J		1.0	0.51	ug/L			02/26/14 18:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 18:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 18:04	1
Trichloroethene	7.9		1.0	0.46	ug/L			02/26/14 18:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 18:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/14 18:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		02/26/14 18:04	1
4-Bromofluorobenzene (Surr)	98		73 - 120		02/26/14 18:04	1
Toluene-d8 (Surr)	100		71 - 126		02/26/14 18:04	1

Client Sample ID: ERT-8-022014

Lab Sample ID: 480-55128-44

Date Collected: 02/20/14 15:00

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/26/14 18:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 18:26	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 18:26	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/26/14 18:26	1
1,1-Dichloroethane	44		1.0	0.38	ug/L			02/26/14 18:26	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/14 18:26	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 18:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 18:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 18:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 18:26	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 18:26	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 18:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 18:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 18:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 18:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 18:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 18:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 18:26	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 18:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 18:26	1
Acetone	8.9 J		10	3.0	ug/L			02/26/14 18:26	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 18:26	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 18:26	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-8-022014

Lab Sample ID: 480-55128-44

Date Collected: 02/20/14 15:00

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.26	ug/L			02/26/14 18:26	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 18:26	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 18:26	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 18:26	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 18:26	1
Chloroethane	28		1.0	0.32	ug/L			02/26/14 18:26	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 18:26	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 18:26	1
cis-1,2-Dichloroethene	2.5		1.0	0.81	ug/L			02/26/14 18:26	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 18:26	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 18:26	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 18:26	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 18:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 18:26	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 18:26	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 18:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 18:26	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 18:26	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 18:26	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 18:26	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 18:26	1
Toluene	0.77 J		1.0	0.51	ug/L			02/26/14 18:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 18:26	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 18:26	1
Trichloroethene	0.53 J		1.0	0.46	ug/L			02/26/14 18:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 18:26	1
Vinyl chloride	2.5		1.0	0.90	ug/L			02/26/14 18:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		02/26/14 18:26	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/26/14 18:26	1
Toluene-d8 (Surr)	101		71 - 126		02/26/14 18:26	1

Client Sample ID: DUP-02-022014

Lab Sample ID: 480-55128-45

Date Collected: 02/20/14 00:00

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1500	E	1.0	0.82	ug/L			02/26/14 03:47	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 03:47	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 03:47	1
1,1,1,2-Trichlorotrifluoroethane	31		1.0	0.31	ug/L			02/26/14 03:47	1
1,1-Dichloroethane	79		1.0	0.38	ug/L			02/26/14 03:47	1
1,1-Dichloroethene	50		1.0	0.29	ug/L			02/26/14 03:47	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 03:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 03:47	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 03:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 03:47	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: DUP-02-022014

Lab Sample ID: 480-55128-45

Date Collected: 02/20/14 00:00

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 03:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 03:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 03:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 03:47	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 03:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 03:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 03:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 03:47	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 03:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 03:47	1
Acetone	5.6	J	10	3.0	ug/L			02/26/14 03:47	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 03:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 03:47	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 03:47	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 03:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 03:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 03:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 03:47	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/14 03:47	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 03:47	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 03:47	1
cis-1,2-Dichloroethene	80		1.0	0.81	ug/L			02/26/14 03:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 03:47	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 03:47	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 03:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 03:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 03:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 03:47	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 03:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 03:47	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 03:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 03:47	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 03:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 03:47	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 03:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 03:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 03:47	1
Trichloroethene	15		1.0	0.46	ug/L			02/26/14 03:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 03:47	1
Vinyl chloride	1.3		1.0	0.90	ug/L			02/26/14 03:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		02/26/14 03:47	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/26/14 03:47	1
Toluene-d8 (Surr)	94		71 - 126		02/26/14 03:47	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1800		25	21	ug/L			02/26/14 18:48	25

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: DUP-02-022014

Lab Sample ID: 480-55128-45

Date Collected: 02/20/14 00:00

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		25	5.3	ug/L			02/26/14 18:48	25
1,1,2-Trichloroethane	ND		25	5.8	ug/L			02/26/14 18:48	25
1,1,2-Trichlorotrifluoroethane	ND		25	7.8	ug/L			02/26/14 18:48	25
1,1-Dichloroethane	71		25	9.5	ug/L			02/26/14 18:48	25
1,1-Dichloroethene	110		25	7.3	ug/L			02/26/14 18:48	25
1,2,3-Trimethylbenzene	ND		25	6.5	ug/L			02/26/14 18:48	25
1,2,4-Trichlorobenzene	ND		25	10	ug/L			02/26/14 18:48	25
1,2,4-Trimethylbenzene	ND		25	19	ug/L			02/26/14 18:48	25
1,2-Dibromo-3-Chloropropane	ND		25	9.8	ug/L			02/26/14 18:48	25
1,2-Dibromoethane	ND		25	18	ug/L			02/26/14 18:48	25
1,2-Dichlorobenzene	ND		25	20	ug/L			02/26/14 18:48	25
1,2-Dichloroethane	ND		25	5.3	ug/L			02/26/14 18:48	25
1,2-Dichloropropane	ND		25	18	ug/L			02/26/14 18:48	25
1,3,5-Trimethylbenzene	ND		25	19	ug/L			02/26/14 18:48	25
1,3-Dichlorobenzene	ND		25	20	ug/L			02/26/14 18:48	25
1,4-Dichlorobenzene	ND		25	21	ug/L			02/26/14 18:48	25
2-Butanone (MEK)	ND		250	33	ug/L			02/26/14 18:48	25
2-Hexanone	ND		130	31	ug/L			02/26/14 18:48	25
4-Methyl-2-pentanone (MIBK)	ND		130	53	ug/L			02/26/14 18:48	25
Acetone	ND		250	75	ug/L			02/26/14 18:48	25
Benzene	ND		25	10	ug/L			02/26/14 18:48	25
Bromodichloromethane	ND		25	9.8	ug/L			02/26/14 18:48	25
Bromoform	ND		25	6.5	ug/L			02/26/14 18:48	25
Bromomethane	ND		25	17	ug/L			02/26/14 18:48	25
Carbon disulfide	ND		25	4.8	ug/L			02/26/14 18:48	25
Carbon tetrachloride	ND		25	6.8	ug/L			02/26/14 18:48	25
Chlorobenzene	ND		25	19	ug/L			02/26/14 18:48	25
Chloroethane	ND		25	8.0	ug/L			02/26/14 18:48	25
Chloroform	ND		25	8.5	ug/L			02/26/14 18:48	25
Chloromethane	ND		25	8.8	ug/L			02/26/14 18:48	25
cis-1,2-Dichloroethene	72		25	20	ug/L			02/26/14 18:48	25
cis-1,3-Dichloropropene	ND		25	9.0	ug/L			02/26/14 18:48	25
Cyclohexane	ND		25	4.5	ug/L			02/26/14 18:48	25
Dibromochloromethane	ND		25	8.0	ug/L			02/26/14 18:48	25
Dichlorodifluoromethane	ND		25	17	ug/L			02/26/14 18:48	25
Ethylbenzene	ND		25	19	ug/L			02/26/14 18:48	25
Isopropylbenzene	ND		25	20	ug/L			02/26/14 18:48	25
Methyl acetate	ND		63	13	ug/L			02/26/14 18:48	25
Methyl tert-butyl ether	ND		25	4.0	ug/L			02/26/14 18:48	25
Methylcyclohexane	ND		25	4.0	ug/L			02/26/14 18:48	25
Methylene Chloride	ND		25	11	ug/L			02/26/14 18:48	25
Styrene	ND		25	18	ug/L			02/26/14 18:48	25
Tetrachloroethene	ND		25	9.0	ug/L			02/26/14 18:48	25
Toluene	ND		25	13	ug/L			02/26/14 18:48	25
trans-1,2-Dichloroethene	ND		25	23	ug/L			02/26/14 18:48	25
trans-1,3-Dichloropropene	ND		25	9.3	ug/L			02/26/14 18:48	25
Trichloroethene	14 J		25	12	ug/L			02/26/14 18:48	25
Trichlorofluoromethane	ND		25	22	ug/L			02/26/14 18:48	25
Vinyl chloride	ND		25	23	ug/L			02/26/14 18:48	25

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: DUP-02-022014

Lab Sample ID: 480-55128-45

Date Collected: 02/20/14 00:00

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		50	17	ug/L			02/26/14 18:48	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137					02/26/14 18:48	25
4-Bromofluorobenzene (Surr)	98		73 - 120					02/26/14 18:48	25
Toluene-d8 (Surr)	101		71 - 126					02/26/14 18:48	25

Client Sample ID: FB-01-022014

Lab Sample ID: 480-55128-47

Date Collected: 02/20/14 17:10

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/26/14 19:31	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 19:31	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 19:31	1
1,1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/26/14 19:31	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/14 19:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/14 19:31	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 19:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 19:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 19:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 19:31	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 19:31	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 19:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 19:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 19:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 19:31	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 19:31	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 19:31	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 19:31	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 19:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 19:31	1
Acetone	9.5 J		10	3.0	ug/L			02/26/14 19:31	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 19:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 19:31	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 19:31	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 19:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 19:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 19:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 19:31	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/14 19:31	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 19:31	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 19:31	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/14 19:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 19:31	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 19:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 19:31	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 19:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 19:31	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: FB-01-022014

Lab Sample ID: 480-55128-47

Date Collected: 02/20/14 17:10

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 19:31	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 19:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 19:31	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 19:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 19:31	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 19:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 19:31	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 19:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 19:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 19:31	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/14 19:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 19:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/14 19:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		02/26/14 19:31	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/26/14 19:31	1
Toluene-d8 (Surr)	101		71 - 126		02/26/14 19:31	1

Client Sample ID: TB-02-022014

Lab Sample ID: 480-55128-49

Date Collected: 02/20/14 00:00

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/26/14 05:28	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 05:28	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 05:28	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/26/14 05:28	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/14 05:28	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/14 05:28	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 05:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 05:28	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 05:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 05:28	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 05:28	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 05:28	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 05:28	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 05:28	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 05:28	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 05:28	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 05:28	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 05:28	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 05:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 05:28	1
Acetone	ND		10	3.0	ug/L			02/26/14 05:28	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 05:28	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 05:28	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 05:28	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: TB-02-022014

Lab Sample ID: 480-55128-49

Date Collected: 02/20/14 00:00

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 05:28	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 05:28	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 05:28	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 05:28	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/14 05:28	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 05:28	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 05:28	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/14 05:28	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 05:28	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 05:28	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 05:28	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 05:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 05:28	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 05:28	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 05:28	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 05:28	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 05:28	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 05:28	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 05:28	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 05:28	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 05:28	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 05:28	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 05:28	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/14 05:28	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 05:28	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/14 05:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 05:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		02/26/14 05:28	1
4-Bromofluorobenzene (Surr)	95		73 - 120		02/26/14 05:28	1
Toluene-d8 (Surr)	91		71 - 126		02/26/14 05:28	1

Client Sample ID: 1-1A(INF)-022114

Lab Sample ID: 480-55128-50

Date Collected: 02/21/14 08:15

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	120	E	1.0	0.82	ug/L			02/26/14 05:54	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 05:54	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 05:54	1
1,1,1,2-Trichlorotrifluoroethane	2.1		1.0	0.31	ug/L			02/26/14 05:54	1
1,1-Dichloroethane	17		1.0	0.38	ug/L			02/26/14 05:54	1
1,1-Dichloroethene	9.3		1.0	0.29	ug/L			02/26/14 05:54	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 05:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 05:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 05:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 05:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 05:54	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 1-1A(INF)-022114

Lab Sample ID: 480-55128-50

Date Collected: 02/21/14 08:15

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 05:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 05:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 05:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 05:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 05:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 05:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 05:54	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 05:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 05:54	1
Acetone	ND		10	3.0	ug/L			02/26/14 05:54	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 05:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 05:54	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 05:54	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 05:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 05:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 05:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 05:54	1
Chloroethane	0.52	J	1.0	0.32	ug/L			02/26/14 05:54	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 05:54	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 05:54	1
cis-1,2-Dichloroethene	39		1.0	0.81	ug/L			02/26/14 05:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 05:54	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 05:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 05:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 05:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 05:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 05:54	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 05:54	1
Methyl tert-butyl ether	1.9		1.0	0.16	ug/L			02/26/14 05:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 05:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 05:54	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 05:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 05:54	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 05:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 05:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 05:54	1
Trichloroethene	43		1.0	0.46	ug/L			02/26/14 05:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 05:54	1
Vinyl chloride	4.6		1.0	0.90	ug/L			02/26/14 05:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 05:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		66 - 137		02/26/14 05:54	1
4-Bromofluorobenzene (Surr)	94		73 - 120		02/26/14 05:54	1
Toluene-d8 (Surr)	90		71 - 126		02/26/14 05:54	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	120		2.0	1.6	ug/L			02/26/14 19:53	2
1,1,1,2-Tetrachloroethane	ND		2.0	0.42	ug/L			02/26/14 19:53	2

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 1-1A(INF)-022114

Lab Sample ID: 480-55128-50

Date Collected: 02/21/14 08:15

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			02/26/14 19:53	2
1,1,2-Trichlorotrifluoroethane	ND		2.0	0.62	ug/L			02/26/14 19:53	2
1,1-Dichloroethane	16		2.0	0.76	ug/L			02/26/14 19:53	2
1,1-Dichloroethene	14		2.0	0.58	ug/L			02/26/14 19:53	2
1,2,3-Trimethylbenzene	ND		2.0	0.52	ug/L			02/26/14 19:53	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			02/26/14 19:53	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			02/26/14 19:53	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			02/26/14 19:53	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			02/26/14 19:53	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			02/26/14 19:53	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			02/26/14 19:53	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			02/26/14 19:53	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			02/26/14 19:53	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			02/26/14 19:53	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			02/26/14 19:53	2
2-Butanone (MEK)	ND		20	2.6	ug/L			02/26/14 19:53	2
2-Hexanone	ND		10	2.5	ug/L			02/26/14 19:53	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			02/26/14 19:53	2
Acetone	ND		20	6.0	ug/L			02/26/14 19:53	2
Benzene	ND		2.0	0.82	ug/L			02/26/14 19:53	2
Bromodichloromethane	ND		2.0	0.78	ug/L			02/26/14 19:53	2
Bromoform	ND		2.0	0.52	ug/L			02/26/14 19:53	2
Bromomethane	ND		2.0	1.4	ug/L			02/26/14 19:53	2
Carbon disulfide	ND		2.0	0.38	ug/L			02/26/14 19:53	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			02/26/14 19:53	2
Chlorobenzene	ND		2.0	1.5	ug/L			02/26/14 19:53	2
Chloroethane	ND		2.0	0.64	ug/L			02/26/14 19:53	2
Chloroform	ND		2.0	0.68	ug/L			02/26/14 19:53	2
Chloromethane	ND		2.0	0.70	ug/L			02/26/14 19:53	2
cis-1,2-Dichloroethene	37		2.0	1.6	ug/L			02/26/14 19:53	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			02/26/14 19:53	2
Cyclohexane	ND		2.0	0.36	ug/L			02/26/14 19:53	2
Dibromochloromethane	ND		2.0	0.64	ug/L			02/26/14 19:53	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			02/26/14 19:53	2
Ethylbenzene	ND		2.0	1.5	ug/L			02/26/14 19:53	2
Isopropylbenzene	ND		2.0	1.6	ug/L			02/26/14 19:53	2
Methyl acetate	ND		5.0	1.0	ug/L			02/26/14 19:53	2
Methyl tert-butyl ether	1.8 J		2.0	0.32	ug/L			02/26/14 19:53	2
Methylcyclohexane	ND		2.0	0.32	ug/L			02/26/14 19:53	2
Methylene Chloride	ND		2.0	0.88	ug/L			02/26/14 19:53	2
Styrene	ND		2.0	1.5	ug/L			02/26/14 19:53	2
Tetrachloroethene	ND		2.0	0.72	ug/L			02/26/14 19:53	2
Toluene	ND		2.0	1.0	ug/L			02/26/14 19:53	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			02/26/14 19:53	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			02/26/14 19:53	2
Trichloroethene	42		2.0	0.92	ug/L			02/26/14 19:53	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			02/26/14 19:53	2
Vinyl chloride	4.6		2.0	1.8	ug/L			02/26/14 19:53	2
Xylenes, Total	ND		4.0	1.3	ug/L			02/26/14 19:53	2

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 1-1A(INF)-022114

Lab Sample ID: 480-55128-50

Date Collected: 02/21/14 08:15

Matrix: Water

Date Received: 02/24/14 16:37

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		02/26/14 19:53	2
4-Bromofluorobenzene (Surr)	98		73 - 120		02/26/14 19:53	2
Toluene-d8 (Surr)	103		71 - 126		02/26/14 19:53	2

Client Sample ID: 1-1A(EFF)-022114

Lab Sample ID: 480-55128-51

Date Collected: 02/21/14 08:30

Matrix: Water

Date Received: 02/24/14 16:37

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.9		1.0	0.82	ug/L			02/26/14 06:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 06:19	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 06:19	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/26/14 06:19	1
1,1-Dichloroethane	2.6		1.0	0.38	ug/L			02/26/14 06:19	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/14 06:19	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 06:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 06:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 06:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 06:19	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 06:19	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 06:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 06:19	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 06:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 06:19	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 06:19	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 06:19	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 06:19	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 06:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 06:19	1
Acetone	ND		10	3.0	ug/L			02/26/14 06:19	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 06:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 06:19	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 06:19	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 06:19	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 06:19	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 06:19	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 06:19	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/14 06:19	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 06:19	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 06:19	1
cis-1,2-Dichloroethene	9.6		1.0	0.81	ug/L			02/26/14 06:19	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 06:19	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 06:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 06:19	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 06:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 06:19	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 06:19	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 06:19	1
Methyl tert-butyl ether	1.5		1.0	0.16	ug/L			02/26/14 06:19	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 1-1A(EFF)-022114

Lab Sample ID: 480-55128-51

Date Collected: 02/21/14 08:30

Matrix: Water

Date Received: 02/24/14 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 06:19	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 06:19	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 06:19	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 06:19	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 06:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 06:19	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 06:19	1
Trichloroethene	3.8		1.0	0.46	ug/L			02/26/14 06:19	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 06:19	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/14 06:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		02/26/14 06:19	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/26/14 06:19	1
Toluene-d8 (Surr)	93		71 - 126		02/26/14 06:19	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (66-137)	BFB (73-120)	TOL (71-126)
480-55128-21	4009-22-022014	101	99	101
480-55128-22	4009-23S-022014	103	103	100
480-55128-23	4009-23D-022014	102	98	102
480-55128-23 - DL	4009-23D-022014	102	99	102
480-55128-24	4009-24-022014	98	98	101
480-55128-25	4009-25S-022014	100	98	99
480-55128-25 - DL	4009-25S-022014	98	96	101
480-55128-25 MS	4009-25S-022014	99	102	98
480-55128-25 MSD	4009-25S-022014	98	102	99
480-55128-26	4009-25D-022014	100	99	101
480-55128-26 - DL	4009-25D-022014	99	97	100
480-55128-27	4009-26-022014	98	97	100
480-55128-27 - DL	4009-26-022014	102	98	101
480-55128-28	4009-27S-022014	100	97	101
480-55128-29	4009-27I-022014	102	99	102
480-55128-29 MS	4009-27I-022014	98	104	100
480-55128-29 MSD	4009-27I-022014	98	103	99
480-55128-30	4009-27D-022014	98	98	100
480-55128-31	4009-28-022014	98	99	100
480-55128-32	4009-29S-022014	99	97	101
480-55128-32 - DL	4009-29S-022014	100	98	102
480-55128-33	4009-29I-022014	99	97	100
480-55128-33 - DL	4009-29I-022014	103	100	104
480-55128-34	4009-29D-022014	101	99	102
480-55128-35	ERT-1I-022014	99	97	100
480-55128-35 - DL	ERT-1I-022014	100	98	103
480-55128-36	ERT-1D-022014	100	99	102
480-55128-37	ERT-3S-022014	101	100	103
480-55128-37 - DL	ERT-3S-022014	100	98	101
480-55128-38	ERT-3I-022014	101	100	100
480-55128-38 - DL	ERT-3I-022014	101	99	101
480-55128-39	ERT-3D-022014	100	99	99
480-55128-39 - DL	ERT-3D-022014	101	97	100
480-55128-40	ERT-4S-022014	103	89	106
480-55128-40 - DL	ERT-4S-022014	95	103	101
480-55128-41	ERT-4I-022014	99	96	100
480-55128-42	ERT-4D-022014	99	97	100
480-55128-43	ERT-7-022014	100	98	100
480-55128-44	ERT-8-022014	100	99	101
480-55128-45	DUP-02-022014	98	99	94
480-55128-45 - DL	DUP-02-022014	98	98	101
480-55128-47	FB-01-022014	100	99	101
480-55128-49	TB-02-022014	99	95	91
480-55128-50	1-1A(INF)-022114	97	94	90
480-55128-50 - DL	1-1A(INF)-022114	100	98	103
480-55128-51	1-1A(EFF)-022114	104	99	93
LCS 480-167465/5	Lab Control Sample	102	106	102
LCS 480-167565/5	Lab Control Sample	97	101	98
LCS 480-167570/4	Lab Control Sample	102	104	98

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (66-137)	BFB (73-120)	TOL (71-126)
LCS 480-167657/5	Lab Control Sample	100	104	102
LCS 480-167753/6	Lab Control Sample	89	105	100
MB 480-167465/7	Method Blank	100	97	100
MB 480-167565/7	Method Blank	99	100	101
MB 480-167570/6	Method Blank	99	100	94
MB 480-167657/7	Method Blank	99	98	101
MB 480-167753/8	Method Blank	93	104	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-167465/7

Matrix: Water

Analysis Batch: 167465

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/25/14 12:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/25/14 12:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/25/14 12:07	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/25/14 12:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/25/14 12:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/25/14 12:07	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/25/14 12:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/25/14 12:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/25/14 12:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/25/14 12:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/25/14 12:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/25/14 12:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/25/14 12:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/25/14 12:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/25/14 12:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/25/14 12:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/25/14 12:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/25/14 12:07	1
2-Hexanone	ND		5.0	1.2	ug/L			02/25/14 12:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/25/14 12:07	1
Acetone	ND		10	3.0	ug/L			02/25/14 12:07	1
Benzene	ND		1.0	0.41	ug/L			02/25/14 12:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/25/14 12:07	1
Bromoform	ND		1.0	0.26	ug/L			02/25/14 12:07	1
Bromomethane	ND		1.0	0.69	ug/L			02/25/14 12:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/25/14 12:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/25/14 12:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/25/14 12:07	1
Chloroethane	ND		1.0	0.32	ug/L			02/25/14 12:07	1
Chloroform	ND		1.0	0.34	ug/L			02/25/14 12:07	1
Chloromethane	ND		1.0	0.35	ug/L			02/25/14 12:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/25/14 12:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/25/14 12:07	1
Cyclohexane	ND		1.0	0.18	ug/L			02/25/14 12:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/25/14 12:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/25/14 12:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/25/14 12:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/25/14 12:07	1
Methyl acetate	ND		2.5	0.50	ug/L			02/25/14 12:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/25/14 12:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/25/14 12:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/25/14 12:07	1
Styrene	ND		1.0	0.73	ug/L			02/25/14 12:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/25/14 12:07	1
Toluene	ND		1.0	0.51	ug/L			02/25/14 12:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/25/14 12:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/25/14 12:07	1
Trichloroethene	ND		1.0	0.46	ug/L			02/25/14 12:07	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

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

Lab Sample ID: MB 480-167465/7

Matrix: Water

Analysis Batch: 167465

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/25/14 12:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/25/14 12:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/25/14 12:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137					02/25/14 12:07	1
4-Bromofluorobenzene (Surr)	97		73 - 120					02/25/14 12:07	1
Toluene-d8 (Surr)	100		71 - 126					02/25/14 12:07	1

Lab Sample ID: LCS 480-167465/5

Matrix: Water

Analysis Batch: 167465

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	25.2		ug/L		101	71 - 129
1,1-Dichloroethene	25.0	25.7		ug/L		103	58 - 121
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	76 - 121
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	25.1		ug/L		101	75 - 127
Benzene	25.0	25.4		ug/L		102	71 - 124
Chlorobenzene	25.0	24.9		ug/L		99	72 - 120
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	74 - 124
Ethylbenzene	25.0	25.0		ug/L		100	77 - 123
Methyl tert-butyl ether	25.0	26.1		ug/L		104	64 - 127
Tetrachloroethene	25.0	25.2		ug/L		101	74 - 122
Toluene	25.0	24.6		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	25.4		ug/L		101	73 - 127
Trichloroethene	25.0	25.5		ug/L		102	74 - 123
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	102		66 - 137				
4-Bromofluorobenzene (Surr)	106		73 - 120				
Toluene-d8 (Surr)	102		71 - 126				

Lab Sample ID: 480-55128-29 MS

Matrix: Water

Analysis Batch: 167465

Client Sample ID: 4009-271-022014

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		25.0	27.9		ug/L		112	71 - 129
1,1-Dichloroethene	ND		25.0	30.1		ug/L		120	58 - 121
1,2,4-Trimethylbenzene	ND		25.0	26.2		ug/L		105	76 - 121
1,2-Dichlorobenzene	ND		25.0	26.5		ug/L		106	80 - 124
1,2-Dichloroethane	ND		25.0	25.6		ug/L		102	75 - 127
Benzene	ND		25.0	27.7		ug/L		111	71 - 124
Chlorobenzene	ND		25.0	27.0		ug/L		108	72 - 120
cis-1,2-Dichloroethene	ND		25.0	28.1		ug/L		112	74 - 124
Ethylbenzene	ND		25.0	27.6		ug/L		110	77 - 123

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

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

Lab Sample ID: 480-55128-29 MS

Matrix: Water

Analysis Batch: 167465

Client Sample ID: 4009-271-022014

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	27.0		ug/L		108	64 - 127
Tetrachloroethene	ND		25.0	28.8		ug/L		115	74 - 122
Toluene	ND		25.0	27.0		ug/L		108	80 - 122
trans-1,2-Dichloroethene	ND		25.0	28.9		ug/L		116	73 - 127
Trichloroethene	1.4		25.0	29.1		ug/L		111	74 - 123

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Lab Sample ID: 480-55128-29 MSD

Matrix: Water

Analysis Batch: 167465

Client Sample ID: 4009-271-022014

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-Dichloroethane	ND		25.0	28.4		ug/L		113	71 - 129	2	20
1,1-Dichloroethene	ND		25.0	29.9		ug/L		119	58 - 121	1	16
1,2,4-Trimethylbenzene	ND		25.0	26.7		ug/L		107	76 - 121	2	20
1,2-Dichlorobenzene	ND		25.0	27.2		ug/L		109	80 - 124	2	20
1,2-Dichloroethane	ND		25.0	26.2		ug/L		105	75 - 127	2	20
Benzene	ND		25.0	28.1		ug/L		113	71 - 124	2	13
Chlorobenzene	ND		25.0	27.1		ug/L		108	72 - 120	1	25
cis-1,2-Dichloroethene	ND		25.0	28.4		ug/L		113	74 - 124	1	15
Ethylbenzene	ND		25.0	27.8		ug/L		111	77 - 123	1	15
Methyl tert-butyl ether	ND		25.0	27.4		ug/L		110	64 - 127	2	37
Tetrachloroethene	ND		25.0	28.8		ug/L		115	74 - 122	0	20
Toluene	ND		25.0	27.5		ug/L		110	80 - 122	2	15
trans-1,2-Dichloroethene	ND		25.0	29.3		ug/L		117	73 - 127	1	20
Trichloroethene	1.4		25.0	30.0		ug/L		114	74 - 123	3	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Lab Sample ID: MB 480-167565/7

Matrix: Water

Analysis Batch: 167565

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/25/14 22:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/25/14 22:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/25/14 22:35	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/25/14 22:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/25/14 22:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/25/14 22:35	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/25/14 22:35	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

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

Lab Sample ID: MB 480-167565/7

Matrix: Water

Analysis Batch: 167565

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/25/14 22:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/25/14 22:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/25/14 22:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/25/14 22:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/25/14 22:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/25/14 22:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/25/14 22:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/25/14 22:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/25/14 22:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/25/14 22:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/25/14 22:35	1
2-Hexanone	ND		5.0	1.2	ug/L			02/25/14 22:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/25/14 22:35	1
Acetone	ND		10	3.0	ug/L			02/25/14 22:35	1
Benzene	ND		1.0	0.41	ug/L			02/25/14 22:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/25/14 22:35	1
Bromoform	ND		1.0	0.26	ug/L			02/25/14 22:35	1
Bromomethane	ND		1.0	0.69	ug/L			02/25/14 22:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/25/14 22:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/25/14 22:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/25/14 22:35	1
Chloroethane	ND		1.0	0.32	ug/L			02/25/14 22:35	1
Chloroform	ND		1.0	0.34	ug/L			02/25/14 22:35	1
Chloromethane	ND		1.0	0.35	ug/L			02/25/14 22:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/25/14 22:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/25/14 22:35	1
Cyclohexane	ND		1.0	0.18	ug/L			02/25/14 22:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/25/14 22:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/25/14 22:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/25/14 22:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/25/14 22:35	1
Methyl acetate	ND		2.5	0.50	ug/L			02/25/14 22:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/25/14 22:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/25/14 22:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/25/14 22:35	1
Styrene	ND		1.0	0.73	ug/L			02/25/14 22:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/25/14 22:35	1
Toluene	ND		1.0	0.51	ug/L			02/25/14 22:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/25/14 22:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/25/14 22:35	1
Trichloroethene	ND		1.0	0.46	ug/L			02/25/14 22:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/25/14 22:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/25/14 22:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/25/14 22:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		02/25/14 22:35	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/25/14 22:35	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

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

Lab Sample ID: MB 480-167565/7

Matrix: Water

Analysis Batch: 167565

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 126		02/25/14 22:35	1

Lab Sample ID: LCS 480-167565/5

Matrix: Water

Analysis Batch: 167565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	25.1		ug/L		100	71 - 129
1,1-Dichloroethene	25.0	24.9		ug/L		100	58 - 121
1,2,4-Trimethylbenzene	25.0	23.9		ug/L		96	76 - 121
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	24.0		ug/L		96	75 - 127
Benzene	25.0	24.8		ug/L		99	71 - 124
Chlorobenzene	25.0	24.5		ug/L		98	72 - 120
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	74 - 124
Ethylbenzene	25.0	24.5		ug/L		98	77 - 123
Methyl tert-butyl ether	25.0	25.7		ug/L		103	64 - 127
Tetrachloroethene	25.0	24.8		ug/L		99	74 - 122
Toluene	25.0	24.0		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	24.7		ug/L		99	73 - 127
Trichloroethene	25.0	24.7		ug/L		99	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		66 - 137
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Lab Sample ID: 480-55128-25 MS

Matrix: Water

Analysis Batch: 167565

Client Sample ID: 4009-25S-022014

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	110		1000	1120		ug/L		101	71 - 129
1,1-Dichloroethene	210		1000	1320		ug/L		111	58 - 121
1,2,4-Trimethylbenzene	ND		1000	950		ug/L		95	76 - 121
1,2-Dichlorobenzene	ND		1000	975		ug/L		98	80 - 124
1,2-Dichloroethane	ND		1000	947		ug/L		95	75 - 127
Benzene	ND		1000	969		ug/L		97	71 - 124
Chlorobenzene	ND		1000	947		ug/L		95	72 - 120
cis-1,2-Dichloroethene	180		1000	1230		ug/L		105	74 - 124
Ethylbenzene	ND		1000	958		ug/L		96	77 - 123
Methyl tert-butyl ether	ND		1000	1020		ug/L		102	64 - 127
Tetrachloroethene	ND		1000	981		ug/L		98	74 - 122
Toluene	ND		1000	930		ug/L		93	80 - 122
trans-1,2-Dichloroethene	ND		1000	1020		ug/L		102	73 - 127
Trichloroethene	44		1000	1030		ug/L		99	74 - 123

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

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

Lab Sample ID: 480-55128-25 MS

Matrix: Water

Analysis Batch: 167565

Client Sample ID: 4009-25S-022014

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Lab Sample ID: 480-55128-25 MSD

Matrix: Water

Analysis Batch: 167565

Client Sample ID: 4009-25S-022014

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-Dichloroethane	110		1000	1030		ug/L		92	71 - 129	8	20
1,1-Dichloroethene	210		1000	1220		ug/L		102	58 - 121	7	16
1,2,4-Trimethylbenzene	ND		1000	916		ug/L		92	76 - 121	4	20
1,2-Dichlorobenzene	ND		1000	950		ug/L		95	80 - 124	3	20
1,2-Dichloroethane	ND		1000	935		ug/L		94	75 - 127	1	20
Benzene	ND		1000	921		ug/L		92	71 - 124	5	13
Chlorobenzene	ND		1000	926		ug/L		93	72 - 120	2	25
cis-1,2-Dichloroethene	180		1000	1140		ug/L		96	74 - 124	8	15
Ethylbenzene	ND		1000	921		ug/L		92	77 - 123	4	15
Methyl tert-butyl ether	ND		1000	994		ug/L		99	64 - 127	2	37
Tetrachloroethene	ND		1000	932		ug/L		93	74 - 122	5	20
Toluene	ND		1000	900		ug/L		90	80 - 122	3	15
trans-1,2-Dichloroethene	ND		1000	942		ug/L		94	73 - 127	8	20
Trichloroethene	44		1000	957		ug/L		91	74 - 123	7	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Lab Sample ID: MB 480-167570/6

Matrix: Water

Analysis Batch: 167570

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/25/14 23:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/25/14 23:47	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/25/14 23:47	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/25/14 23:47	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/25/14 23:47	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/25/14 23:47	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/25/14 23:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/25/14 23:47	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/25/14 23:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/25/14 23:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/25/14 23:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/25/14 23:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/25/14 23:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/25/14 23:47	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

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

Lab Sample ID: MB 480-167570/6

Matrix: Water

Analysis Batch: 167570

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/25/14 23:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/25/14 23:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/25/14 23:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/25/14 23:47	1
2-Hexanone	ND		5.0	1.2	ug/L			02/25/14 23:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/25/14 23:47	1
Acetone	ND		10	3.0	ug/L			02/25/14 23:47	1
Benzene	ND		1.0	0.41	ug/L			02/25/14 23:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/25/14 23:47	1
Bromoform	ND		1.0	0.26	ug/L			02/25/14 23:47	1
Bromomethane	ND		1.0	0.69	ug/L			02/25/14 23:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/25/14 23:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/25/14 23:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/25/14 23:47	1
Chloroethane	ND		1.0	0.32	ug/L			02/25/14 23:47	1
Chloroform	ND		1.0	0.34	ug/L			02/25/14 23:47	1
Chloromethane	ND		1.0	0.35	ug/L			02/25/14 23:47	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/25/14 23:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/25/14 23:47	1
Cyclohexane	ND		1.0	0.18	ug/L			02/25/14 23:47	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/25/14 23:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/25/14 23:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/25/14 23:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/25/14 23:47	1
Methyl acetate	ND		2.5	0.50	ug/L			02/25/14 23:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/25/14 23:47	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/25/14 23:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/25/14 23:47	1
Styrene	ND		1.0	0.73	ug/L			02/25/14 23:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/25/14 23:47	1
Toluene	ND		1.0	0.51	ug/L			02/25/14 23:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/25/14 23:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/25/14 23:47	1
Trichloroethene	ND		1.0	0.46	ug/L			02/25/14 23:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/25/14 23:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/25/14 23:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/25/14 23:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		02/25/14 23:47	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/25/14 23:47	1
Toluene-d8 (Surr)	94		71 - 126		02/25/14 23:47	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

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

Lab Sample ID: LCS 480-167570/4

Matrix: Water

Analysis Batch: 167570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	25.2		ug/L		101	71 - 129
1,1-Dichloroethene	25.0	25.8		ug/L		103	58 - 121
1,2,4-Trimethylbenzene	25.0	25.8		ug/L		103	76 - 121
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	25.3		ug/L		101	75 - 127
Benzene	25.0	25.5		ug/L		102	71 - 124
Chlorobenzene	25.0	24.5		ug/L		98	72 - 120
cis-1,2-Dichloroethene	25.0	26.4		ug/L		106	74 - 124
Ethylbenzene	25.0	25.4		ug/L		102	77 - 123
Methyl tert-butyl ether	25.0	26.7		ug/L		107	64 - 127
Tetrachloroethene	25.0	24.3		ug/L		97	74 - 122
Toluene	25.0	24.7		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	25.1		ug/L		100	73 - 127
Trichloroethene	25.0	25.6		ug/L		102	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Lab Sample ID: MB 480-167657/7

Matrix: Water

Analysis Batch: 167657

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/26/14 12:47	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 12:47	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 12:47	1
1,1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/26/14 12:47	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/14 12:47	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/14 12:47	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 12:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 12:47	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 12:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 12:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 12:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 12:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 12:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 12:47	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 12:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 12:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 12:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 12:47	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 12:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 12:47	1
Acetone	ND		10	3.0	ug/L			02/26/14 12:47	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 12:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 12:47	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

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

Lab Sample ID: MB 480-167657/7

Matrix: Water

Analysis Batch: 167657

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.26	ug/L			02/26/14 12:47	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 12:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 12:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 12:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 12:47	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/14 12:47	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 12:47	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 12:47	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/14 12:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 12:47	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 12:47	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 12:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 12:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 12:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 12:47	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 12:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 12:47	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 12:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 12:47	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 12:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 12:47	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 12:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 12:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 12:47	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/14 12:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 12:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/14 12:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 12:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		02/26/14 12:47	1
4-Bromofluorobenzene (Surr)	98		73 - 120		02/26/14 12:47	1
Toluene-d8 (Surr)	101		71 - 126		02/26/14 12:47	1

Lab Sample ID: LCS 480-167657/5

Matrix: Water

Analysis Batch: 167657

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	25.1		ug/L		100	71 - 129
1,1-Dichloroethene	25.0	25.4		ug/L		101	58 - 121
1,2,4-Trimethylbenzene	25.0	24.2		ug/L		97	76 - 121
1,2-Dichlorobenzene	25.0	24.6		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	23.7		ug/L		95	75 - 127
Benzene	25.0	24.7		ug/L		99	71 - 124
Chlorobenzene	25.0	24.5		ug/L		98	72 - 120
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	74 - 124
Ethylbenzene	25.0	24.8		ug/L		99	77 - 123

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

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

Lab Sample ID: LCS 480-167657/5

Matrix: Water

Analysis Batch: 167657

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.4		ug/L		101	64 - 127
Tetrachloroethene	25.0	25.4		ug/L		102	74 - 122
Toluene	25.0	24.4		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	73 - 127
Trichloroethene	25.0	25.2		ug/L		101	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	102		71 - 126

Lab Sample ID: MB 480-167753/8

Matrix: Water

Analysis Batch: 167753

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/26/14 21:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/14 21:33	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/14 21:33	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			02/26/14 21:33	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/14 21:33	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/14 21:33	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			02/26/14 21:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/14 21:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/26/14 21:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/14 21:33	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/14 21:33	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/14 21:33	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/14 21:33	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/14 21:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/26/14 21:33	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/14 21:33	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/14 21:33	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/14 21:33	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/14 21:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/14 21:33	1
Acetone	ND		10	3.0	ug/L			02/26/14 21:33	1
Benzene	ND		1.0	0.41	ug/L			02/26/14 21:33	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/14 21:33	1
Bromoform	ND		1.0	0.26	ug/L			02/26/14 21:33	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/14 21:33	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/14 21:33	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/14 21:33	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/14 21:33	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/14 21:33	1
Chloroform	ND		1.0	0.34	ug/L			02/26/14 21:33	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/14 21:33	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/14 21:33	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

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

Lab Sample ID: MB 480-167753/8

Matrix: Water

Analysis Batch: 167753

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/14 21:33	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/14 21:33	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/14 21:33	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/14 21:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/14 21:33	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/14 21:33	1
Methyl acetate	ND		2.5	0.50	ug/L			02/26/14 21:33	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/14 21:33	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/14 21:33	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/14 21:33	1
Styrene	ND		1.0	0.73	ug/L			02/26/14 21:33	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/14 21:33	1
Toluene	ND		1.0	0.51	ug/L			02/26/14 21:33	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/14 21:33	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/14 21:33	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/14 21:33	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/14 21:33	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/14 21:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/14 21:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		66 - 137		02/26/14 21:33	1
4-Bromofluorobenzene (Surr)	104		73 - 120		02/26/14 21:33	1
Toluene-d8 (Surr)	100		71 - 126		02/26/14 21:33	1

Lab Sample ID: LCS 480-167753/6

Matrix: Water

Analysis Batch: 167753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	22.9		ug/L		92	71 - 129
1,1-Dichloroethene	25.0	21.7		ug/L		87	58 - 121
1,2,4-Trimethylbenzene	25.0	24.5		ug/L		98	76 - 121
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	23.3		ug/L		93	75 - 127
Benzene	25.0	23.1		ug/L		92	71 - 124
Chlorobenzene	25.0	24.6		ug/L		98	72 - 120
cis-1,2-Dichloroethene	25.0	23.0		ug/L		92	74 - 124
Ethylbenzene	25.0	23.7		ug/L		95	77 - 123
Methyl tert-butyl ether	25.0	23.5		ug/L		94	64 - 127
Tetrachloroethene	25.0	23.5		ug/L		94	74 - 122
Toluene	25.0	24.5		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	21.9		ug/L		88	73 - 127
Trichloroethene	25.0	22.7		ug/L		91	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		66 - 137

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

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

Lab Sample ID: LCS 480-167753/6

Matrix: Water

Analysis Batch: 167753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		73 - 120
Toluene-d8 (Surr)	100		71 - 126

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

GC/MS VOA

Analysis Batch: 167465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-55128-21	4009-22-022014	Total/NA	Water	8260C	
480-55128-22	4009-23S-022014	Total/NA	Water	8260C	
480-55128-23	4009-23D-022014	Total/NA	Water	8260C	
480-55128-24	4009-24-022014	Total/NA	Water	8260C	
480-55128-25	4009-25S-022014	Total/NA	Water	8260C	
480-55128-26	4009-25D-022014	Total/NA	Water	8260C	
480-55128-27	4009-26-022014	Total/NA	Water	8260C	
480-55128-29	4009-27I-022014	Total/NA	Water	8260C	
480-55128-29 MS	4009-27I-022014	Total/NA	Water	8260C	
480-55128-29 MSD	4009-27I-022014	Total/NA	Water	8260C	
LCS 480-167465/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-167465/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 167565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-55128-23 - DL	4009-23D-022014	Total/NA	Water	8260C	
480-55128-25 - DL	4009-25S-022014	Total/NA	Water	8260C	
480-55128-25 MS	4009-25S-022014	Total/NA	Water	8260C	
480-55128-25 MSD	4009-25S-022014	Total/NA	Water	8260C	
480-55128-26 - DL	4009-25D-022014	Total/NA	Water	8260C	
480-55128-27 - DL	4009-26-022014	Total/NA	Water	8260C	
480-55128-28	4009-27S-022014	Total/NA	Water	8260C	
480-55128-30	4009-27D-022014	Total/NA	Water	8260C	
480-55128-31	4009-28-022014	Total/NA	Water	8260C	
480-55128-32	4009-29S-022014	Total/NA	Water	8260C	
480-55128-33	4009-29I-022014	Total/NA	Water	8260C	
480-55128-35	ERT-1I-022014	Total/NA	Water	8260C	
480-55128-36	ERT-1D-022014	Total/NA	Water	8260C	
480-55128-37	ERT-3S-022014	Total/NA	Water	8260C	
480-55128-38	ERT-3I-022014	Total/NA	Water	8260C	
480-55128-39	ERT-3D-022014	Total/NA	Water	8260C	
480-55128-40	ERT-4S-022014	Total/NA	Water	8260C	
LCS 480-167565/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-167565/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 167570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-55128-45	DUP-02-022014	Total/NA	Water	8260C	
480-55128-49	TB-02-022014	Total/NA	Water	8260C	
480-55128-50	1-1A(INF)-022114	Total/NA	Water	8260C	
480-55128-51	1-1A(EFF)-022114	Total/NA	Water	8260C	
LCS 480-167570/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-167570/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 167657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-55128-32 - DL	4009-29S-022014	Total/NA	Water	8260C	
480-55128-33 - DL	4009-29I-022014	Total/NA	Water	8260C	
480-55128-34	4009-29D-022014	Total/NA	Water	8260C	
480-55128-35 - DL	ERT-1I-022014	Total/NA	Water	8260C	
480-55128-37 - DL	ERT-3S-022014	Total/NA	Water	8260C	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

GC/MS VOA (Continued)

Analysis Batch: 167657 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-55128-38 - DL	ERT-3I-022014	Total/NA	Water	8260C	
480-55128-39 - DL	ERT-3D-022014	Total/NA	Water	8260C	
480-55128-41	ERT-4I-022014	Total/NA	Water	8260C	
480-55128-42	ERT-4D-022014	Total/NA	Water	8260C	
480-55128-43	ERT-7-022014	Total/NA	Water	8260C	
480-55128-44	ERT-8-022014	Total/NA	Water	8260C	
480-55128-45 - DL	DUP-02-022014	Total/NA	Water	8260C	
480-55128-47	FB-01-022014	Total/NA	Water	8260C	
480-55128-50 - DL	1-1A(INF)-022114	Total/NA	Water	8260C	
LCS 480-167657/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-167657/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 167753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-55128-40 - DL	ERT-4S-022014	Total/NA	Water	8260C	
LCS 480-167753/6	Lab Control Sample	Total/NA	Water	8260C	
MB 480-167753/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-22-022014

Lab Sample ID: 480-55128-21

Date Collected: 02/20/14 08:50

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167465	02/25/14 16:18	NMD1	TAL BUF

Client Sample ID: 4009-23S-022014

Lab Sample ID: 480-55128-22

Date Collected: 02/20/14 13:55

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167465	02/25/14 16:39	NMD1	TAL BUF

Client Sample ID: 4009-23D-022014

Lab Sample ID: 480-55128-23

Date Collected: 02/20/14 13:50

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167465	02/25/14 17:01	NMD1	TAL BUF
Total/NA	Analysis	8260C	DL	10	167565	02/25/14 23:17	GTG	TAL BUF

Client Sample ID: 4009-24-022014

Lab Sample ID: 480-55128-24

Date Collected: 02/20/14 14:05

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167465	02/25/14 17:23	NMD1	TAL BUF

Client Sample ID: 4009-25S-022014

Lab Sample ID: 480-55128-25

Date Collected: 02/20/14 15:35

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167465	02/25/14 17:44	NMD1	TAL BUF
Total/NA	Analysis	8260C	DL	40	167565	02/25/14 23:38	GTG	TAL BUF

Client Sample ID: 4009-25D-022014

Lab Sample ID: 480-55128-26

Date Collected: 02/20/14 15:40

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167465	02/25/14 18:06	NMD1	TAL BUF
Total/NA	Analysis	8260C	DL	20	167565	02/26/14 00:44	GTG	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-26-022014

Lab Sample ID: 480-55128-27

Date Collected: 02/20/14 13:25

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167465	02/25/14 18:28	NMD1	TAL BUF
Total/NA	Analysis	8260C	DL	2	167565	02/26/14 01:06	GTG	TAL BUF

Client Sample ID: 4009-27S-022014

Lab Sample ID: 480-55128-28

Date Collected: 02/20/14 11:15

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167565	02/26/14 01:28	GTG	TAL BUF

Client Sample ID: 4009-27I-022014

Lab Sample ID: 480-55128-29

Date Collected: 02/20/14 11:20

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167465	02/25/14 19:11	NMD1	TAL BUF

Client Sample ID: 4009-27D-022014

Lab Sample ID: 480-55128-30

Date Collected: 02/20/14 11:25

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167565	02/26/14 01:49	GTG	TAL BUF

Client Sample ID: 4009-28-022014

Lab Sample ID: 480-55128-31

Date Collected: 02/20/14 08:20

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167565	02/26/14 02:11	GTG	TAL BUF

Client Sample ID: 4009-29S-022014

Lab Sample ID: 480-55128-32

Date Collected: 02/20/14 11:30

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167565	02/26/14 02:32	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	10	167657	02/26/14 14:49	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: 4009-29I-022014

Lab Sample ID: 480-55128-33

Date Collected: 02/20/14 11:35

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167565	02/26/14 02:54	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	25	167657	02/26/14 15:11	NMD1	TAL BUF

Client Sample ID: 4009-29D-022014

Lab Sample ID: 480-55128-34

Date Collected: 02/20/14 11:40

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167657	02/26/14 15:33	NMD1	TAL BUF

Client Sample ID: ERT-1I-022014

Lab Sample ID: 480-55128-35

Date Collected: 02/20/14 15:15

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167565	02/26/14 03:36	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	10	167657	02/26/14 15:54	NMD1	TAL BUF

Client Sample ID: ERT-1D-022014

Lab Sample ID: 480-55128-36

Date Collected: 02/20/14 15:20

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167565	02/26/14 03:58	GTG	TAL BUF

Client Sample ID: ERT-3S-022014

Lab Sample ID: 480-55128-37

Date Collected: 02/20/14 16:40

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167565	02/26/14 04:20	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	100	167657	02/26/14 16:16	NMD1	TAL BUF

Client Sample ID: ERT-3I-022014

Lab Sample ID: 480-55128-38

Date Collected: 02/20/14 16:45

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167565	02/26/14 04:42	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	50	167657	02/26/14 16:38	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: ERT-3D-022014

Lab Sample ID: 480-55128-39

Date Collected: 02/20/14 16:50

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167565	02/26/14 05:03	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	20	167657	02/26/14 16:59	NMD1	TAL BUF

Client Sample ID: ERT-4S-022014

Lab Sample ID: 480-55128-40

Date Collected: 02/20/14 16:35

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	167565	02/26/14 05:25	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	10000	167753	02/27/14 03:02	NMD1	TAL BUF

Client Sample ID: ERT-4I-022014

Lab Sample ID: 480-55128-41

Date Collected: 02/20/14 16:20

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		80	167657	02/26/14 17:21	NMD1	TAL BUF

Client Sample ID: ERT-4D-022014

Lab Sample ID: 480-55128-42

Date Collected: 02/20/14 16:25

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	167657	02/26/14 17:42	NMD1	TAL BUF

Client Sample ID: ERT-7-022014

Lab Sample ID: 480-55128-43

Date Collected: 02/20/14 16:30

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167657	02/26/14 18:04	NMD1	TAL BUF

Client Sample ID: ERT-8-022014

Lab Sample ID: 480-55128-44

Date Collected: 02/20/14 15:00

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167657	02/26/14 18:26	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Client Sample ID: DUP-02-022014

Lab Sample ID: 480-55128-45

Date Collected: 02/20/14 00:00

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167570	02/26/14 03:47	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	25	167657	02/26/14 18:48	NMD1	TAL BUF

Client Sample ID: FB-01-022014

Lab Sample ID: 480-55128-47

Date Collected: 02/20/14 17:10

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167657	02/26/14 19:31	NMD1	TAL BUF

Client Sample ID: TB-02-022014

Lab Sample ID: 480-55128-49

Date Collected: 02/20/14 00:00

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167570	02/26/14 05:28	LCH	TAL BUF

Client Sample ID: 1-1A(INF)-022114

Lab Sample ID: 480-55128-50

Date Collected: 02/21/14 08:15

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167570	02/26/14 05:54	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	2	167657	02/26/14 19:53	NMD1	TAL BUF

Client Sample ID: 1-1A(EFF)-022114

Lab Sample ID: 480-55128-51

Date Collected: 02/21/14 08:30

Matrix: Water

Date Received: 02/24/14 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167570	02/26/14 06:19	LCH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	NELAP	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	04-01-14
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	03-31-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
West Virginia DEP	State Program	3	252	03-31-14
Wisconsin	State Program	5	998310390	08-31-14

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-55128-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-55128-21	4009-22-022014	Water	02/20/14 08:50	02/24/14 16:37
480-55128-22	4009-23S-022014	Water	02/20/14 13:55	02/24/14 16:37
480-55128-23	4009-23D-022014	Water	02/20/14 13:50	02/24/14 16:37
480-55128-24	4009-24-022014	Water	02/20/14 14:05	02/24/14 16:37
480-55128-25	4009-25S-022014	Water	02/20/14 15:35	02/24/14 16:37
480-55128-26	4009-25D-022014	Water	02/20/14 15:40	02/24/14 16:37
480-55128-27	4009-26-022014	Water	02/20/14 13:25	02/24/14 16:37
480-55128-28	4009-27S-022014	Water	02/20/14 11:15	02/24/14 16:37
480-55128-29	4009-27I-022014	Water	02/20/14 11:20	02/24/14 16:37
480-55128-30	4009-27D-022014	Water	02/20/14 11:25	02/24/14 16:37
480-55128-31	4009-28-022014	Water	02/20/14 08:20	02/24/14 16:37
480-55128-32	4009-29S-022014	Water	02/20/14 11:30	02/24/14 16:37
480-55128-33	4009-29I-022014	Water	02/20/14 11:35	02/24/14 16:37
480-55128-34	4009-29D-022014	Water	02/20/14 11:40	02/24/14 16:37
480-55128-35	ERT-1I-022014	Water	02/20/14 15:15	02/24/14 16:37
480-55128-36	ERT-1D-022014	Water	02/20/14 15:20	02/24/14 16:37
480-55128-37	ERT-3S-022014	Water	02/20/14 16:40	02/24/14 16:37
480-55128-38	ERT-3I-022014	Water	02/20/14 16:45	02/24/14 16:37
480-55128-39	ERT-3D-022014	Water	02/20/14 16:50	02/24/14 16:37
480-55128-40	ERT-4S-022014	Water	02/20/14 16:35	02/24/14 16:37
480-55128-41	ERT-4I-022014	Water	02/20/14 16:20	02/24/14 16:37
480-55128-42	ERT-4D-022014	Water	02/20/14 16:25	02/24/14 16:37
480-55128-43	ERT-7-022014	Water	02/20/14 16:30	02/24/14 16:37
480-55128-44	ERT-8-022014	Water	02/20/14 15:00	02/24/14 16:37
480-55128-45	DUP-02-022014	Water	02/20/14 00:00	02/24/14 16:37
480-55128-47	FB-01-022014	Water	02/20/14 17:10	02/24/14 16:37
480-55128-49	TB-02-022014	Water	02/20/14 00:00	02/24/14 16:37
480-55128-50	1-1A(INF)-022114	Water	02/21/14 08:15	02/24/14 16:37
480-55128-51	1-1A(EFF)-022114	Water	02/21/14 08:30	02/24/14 16:37

TestAmerica Buffalo



Client Information
 Client Contact: Ms. Katie Bidwell or Terry Wilcock
 Company: ARCADIS U.S. Inc.
 Address: 855 Route 146 Suite 210
 City: Clifton Park
 State, Zip: NY, 12065
 Phone: 518-250-7360 (Tel)
 Email: katie.bidwell@arcadis-us.com
 Project Name: Vestal Water Supply RSO
 Site:

Sampler: J. Brater
Lab PM: Fox, Candace L.
Phone: 585-750-2666
E-Mail: candace.fox@tes.com

COC No: 480-44450-12063.1
Page: Page 1 of 5
Job #:

Analysis Requested

Due Date Requested: Standard
TAT Requested (days):

PO #: 266401
WO #:
Project #: 48008914
SSOW#:

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
 Other:

Preservation Codes:
 M - Hexane
 N - None
 O - AshtO2
 P - Na2SO4
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - ph 4-5
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=soil, T=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
4009-1 - 0220/14	02/20/14	15:10	6	Water				
4009-2		13:45		Water				
4009-3		14:45		Water				
4009-4		14:20		Water				
4009-5		14:10		Water				
4009-6		13:40		Water				
4009-7		14:00		Water				
4009-8		13:20		Water				
4009-9		10:40		Water				
4009-10		10:35		Water				
4009-11		11:00		Water				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____
 Relinquished by: _____
 Relinquished by: _____
 Relinquished by: _____

Date: _____
Time: _____

Company: ARCADIS
Date/Time: 02/24/14 16:37
Company: ARCADIS
Date/Time: 02/24/14 16:37
Company: ARCADIS
Date/Time: 02/24/14 16:37

Custody Seal No.: _____
 Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks: #1 20.2, 1.2, 2.4

Chain of Custody Record

Client Information		Sampler: <i>J. Beyer</i>		Lab PM: Fox, Candace L	Carrier Tracking No(s):		COC No: 480-44450-12063.2			
Client Contact: Ms. Katie Bidwell & Tracy Wickoff		Phone: 585-750-2601		E-Mail: candace.fox@testamerica.com	Page: Page 2 of 5		Job #:			
Company: ARCADIS U.S. Inc		Analysis Requested								
Address: 855 Route 146 Suite 210		Due Date Requested:								
City: Clifton Park		TAT Requested (days):								
State, Zip: NY, 12065		Standard								
Phone: 518-250-7360 (Tel)		PO #: 266401								
Email: katie.bidwell@arcadis-us.com		WO #: 48008914								
Project Name: Vestal Water Supply RSO		SSON#:								
Site:										
Sample Identification		Sample Date		Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=Tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2 + THPS	
4009-11A - 022014		2/20/14	11:05		G	Water				
4009-12				10:15		Water				
4009-12A				10:20		Water				
4009-13				11:50		Water				
4009-13A				11:55		Water				
4009-14				9:00		Water				
4009-15				9:35		Water				
4009-16				9:25		Water				
4009-16A				9:20		Water				
4009-22				8:50		Water				
4009-23S				13:55		Water				
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:		Method of Shipment:						
Relinquished by: <i>Katie Bidwell</i>		Date/Time: 02/24/14 11:37		Relinquished by: <i>Tracy Wickoff</i>						
Relinquished by:		Date/Time:		Relinquished by:						
Relinquished by:		Date/Time:		Relinquished by:						
Custody Seals Intact: A Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: #1 20.2, 21.2, 21.4						

Chain of Custody Record

Client Information		Lab PM: Fox, Candace L		Carrier Tracking No(s):		COC No: 480-44450-12063.3	
Client Contact: Ms. Katie Bidwell or Jeremy Wyckoff		Phone: 585-750-2606		E-Mail: candace.fox@testamericainc.com		Page: Page 3 of 5	
Company: ARCADIS U.S. Inc		Due Date Requested:		Analysis Requested		Job #:	
Address: 855 Route 146 Suite 210		TAT Requested (days):		Preservation Codes:		Total Number of Containers:	
City: Clifton Park		PO #: 266401		A - HCl		M - Hexane	
State, Zip: NY, 12065		WO #: 48008914		B - NaOH		N - None	
Phone: 518-250-7360(Tel)		Project #: 48008914		C - Zn Acetate		O - AsNaO2	
Email: katie.bidwell@arcadis-us.com		SSOW#:		D - Nitric Acid		P - Na2SO4	
Project Name: Vestal Water Supply RSO		Sample Date		E - NaHSO4		Q - Na2SO3	
Site:		Sample Time		F - MeOH		R - Na2S2O3	
Sample Identification		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=soil, A=air)		S - H2SO4	
4009-23D - 022014		02/20/14 13:50		Water		T - TSP Dodecahydrate	
4009-24		14:05		Water		U - Acetone	
4009-25S		15:35		Water		V - MCAA	
4009-25D		15:40		Water		W - pH 4-5	
4009-26		13:25		Water		X - EDTA	
4009-27S		11:15		Water		Z - other (specify)	
4009-27I		11:20		Water		Other:	
4009-27D		11:25		Water		Special Instructions/Note:	
4009-28		08:20		Water			
4009-29S		11:30		Water			
4009-29I		11:35		Water			
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Radiological		☒ Unknown ☐ Radiological		☒ Return To Client ☐ Disposal By Lab		☒ Archive For _____ Months	
Deliverable Requested: I, II, III, IV/Other (specify)		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Method of Shipment:			
Relinquished by: <i>Katie Bidwell</i>		Date: 02/20/14 16:37		Relinquished by: <i>Jeremy Wyckoff</i>		Date: 2/20/14 16:37	
Relinquished by: <i>Katie Bidwell</i>		Date: 02/20/14 16:37		Relinquished by: <i>Jeremy Wyckoff</i>		Date: 2/20/14 16:37	
Relinquished by:		Date:		Relinquished by:		Date:	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		#1 20.2, 2.4	

Chain of Custody Record

Client Information		Sampler: <u>J. Baxer</u>		Lab PM: <u>Fox, Candace L</u>		Carrier Tracking No(s):		COC No: <u>480-44450-12063.4</u>															
Client Contact: Ms. Katie Bidwell or <u>Jason Wyckoff</u>		Phone: <u>585-750-2606</u>		E-Mail: <u>candace.fox@testamericainc.com</u>		Page: <u>Page 4 of 5</u>		Job #:															
Company: <u>ARCADIS U.S. Inc</u>		Due Date Requested:		Analysis Requested		Total Number of Containers		Preservation Codes:															
Address: <u>855 Route 146 Suite 210</u>		TAT Requested (days):		Field Filtered Sample (Yes or No)		Platform MS/MSD (Yes or No)		A-HCL M-Hexane B-NaOH N-None C-Zn Acetate O-AsNaO2 D-Nitric Acid P-Na2O4S E-NaHSO4 F-MeOH R-Na2S2O3 S-H2SO4 G-Anchlor H-Ascorbic Acid T-TSP Dodecylhydrate I-Ice J-DI Water U-Acetone V-MCAA W-ph 4-5 K-EDTA L-EDA Z-other (specify) Other:															
City: <u>Clifton Park</u>		PO #:		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix (W=Water, S=solid, O=soil, L=liquid, A=air)		Preservation Code:											
State Zip: <u>NY, 12065</u>		Phone: <u>518-250-7360(Tel)</u>		Project #:		SSOW#:		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix (W=Water, S=solid, O=soil, L=liquid, A=air)		Preservation Code:							
Email: <u>katie.bidwell@arcadis-us.com</u>		WO #:		Project Name: <u>Vestal Water Supply RSO</u>		Site:		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix (W=Water, S=solid, O=soil, L=liquid, A=air)		Preservation Code:							
Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:							
Sample Identification		4009-29D -022014		ERT-11		ERT-1D		ERT-3S		ERT-3I		ERT-3D		ERT-4S		ERT-4I		ERT-4D		ERT-7		ERT-8	
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Radiological ☐		Deliverable Requested: I, II, III (V Other (specify))		Empty Kit Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Date/Time: <u>02/24/14 16:37</u>		Date/Time: <u>02/24/14 16:37</u>		Date/Time: <u>02/24/14 16:37</u>		Date/Time: <u>02/24/14 16:37</u>		Date/Time: <u>02/24/14 16:37</u>		Date/Time: <u>02/24/14 16:37</u>		Date/Time: <u>02/24/14 16:37</u>		Date/Time: <u>02/24/14 16:37</u>		Date/Time: <u>02/24/14 16:37</u>		Date/Time: <u>02/24/14 16:37</u>		Date/Time: <u>02/24/14 16:37</u>		Date/Time: <u>02/24/14 16:37</u>	
Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	
Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	

Chain of Custody Record



ENCLOSURE 14 OCTOBER 1973

Client Information				Lab PW:				Carrier Tracking No(s):				COC No:							
Client Contact: Ms. Katie Bidwell Company: ARCADIS U.S. Inc.				J. Baker Fox, Candace L. E-Mail: candace.fox@testamericainc.com								480-44450-12063.5							
Address: 8555 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065 Phone: 1518-250-7360(Tel) Email: katie.bidwell@arcadis-us.com Project Name: Vestal Water Supply RSO Site:				Due Date Requested: TAT Requested (days): Standard PO #: 266401 WO #: Project #: 48008914 SSOW#:				Analysis Requested				Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - H2SO4 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				Sample Date				Sample Time				Sample Type (C=comp, G=grab)				Matrix (W=water, S=solid, O=wastefill, BT=Tissue, A=Air)			
Sample Identification				Sample Date				Sample Time				Sample Type (C=comp, G=grab)				Matrix (W=water, S=solid, O=wastefill, BT=Tissue, A=Air)			
MS 4009-3 MS-02-022014				02/20/14				14:45				Water				Field Filtered Sample (Yes or No)			
MS 4009-3 MS-02-022014				02/20/14				14:45				Water				Field Filtered Sample (Yes or No)			
MS 4009-27 MS-01-022014				02/20/14				11:20				Water				Field Filtered Sample (Yes or No)			
MS 4009-27 MS-01-022014				02/20/14				11:20				Water				Field Filtered Sample (Yes or No)			
DUP-02-022014				02/20/14				---				Water				Field Filtered Sample (Yes or No)			
DUP-01-022014				02/20/14				---				Water				Field Filtered Sample (Yes or No)			
FB-01-022014				02/20/14				17:10				Water				Field Filtered Sample (Yes or No)			
TB-01-022014 022014				---				---				Water				Field Filtered Sample (Yes or No)			
TB-02-022014 022014				---				---				Water				Field Filtered Sample (Yes or No)			
1-1A(INF)-022014				02/21/14				8:15				Water				Field Filtered Sample (Yes or No)			
1-1A(EFF)-022014				02/21/14				8:30				Water				Field Filtered Sample (Yes or No)			
Possible Hazard Identification				Deliverable Requested: 1, II, III, IV (Other (specify))				Toxicological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Non-Hazard				Flammable				Skin Irritant				Return To Client							
Empty Kit Relinquished by:				Date/Time:				Date/Time:				Date/Time:							
Relinquished by:				Date/Time:				Date/Time:				Date/Time:							
Relinquished by:				Date/Time:				Date/Time:				Date/Time:							
Relinquished by:				Date/Time:				Date/Time:				Date/Time:							
Custody Seals Intact				Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:				Company:							

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-55128-2

Login Number: 55128

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

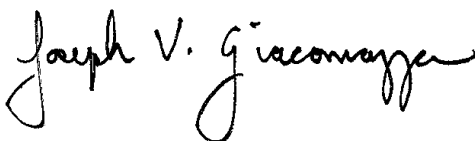
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-54309-1

Job Description: Vestal Well 1-1A Sampling LMCO

For:
ARCADIS U.S. Inc
855 Route 146
Suite 210
Clifton Park, NY 12065
Attention: Jeremy Wyckoff



Approved for release.
Joe V Giacomazza
Project Management Assistant II
2/20/2014 4:52 PM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
judy.stone@testamericainc.com
02/20/2014
Revision: 1

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive, Amherst, NY 14228-2298
Tel (716) 691-2600 Fax (716) 691-7991 www.testamericainc.com



Table of Contents

Cover Title Page	1
Data Summaries	4
Report Narrative	4
Manual Integration Summary	5
Sample Summary	7
Executive Summary	8
Method Summary	9
Method / Analyst Summary	10
Sample Datasheets	11
Surrogate Summary	17
QC Data Summary	18
Data Qualifiers	24
QC Association Summary	25
Lab Chronicle	26
Certification Summary	27
Organic Sample Data	28
GC/MS VOA	28
Method 8260C	28
Method 8260C QC Summary	29
Method 8260C Sample Data	40
Standards Data	70
Method 8260C ICAL Data	70
Method 8260C CCAL Data	110
Raw QC Data	124
Method 8260C Tune Data	124
Method 8260C Blank Data	133

Table of Contents

Method 8260C LCS/LCSD Data	149
Method 8260C Run Logs	164
Method 8260C Prep Data	167
Shipping and Receiving Documents	176
Client Chain of Custody	177
Sample Receipt Checklist	178

Job Narrative
480-54309-1

Revision (1)

This report has been revised to include vinyl chloride and total xylenes in the VOA analyte list as requested by the client.

Receipt

The samples were received on 2/6/2014 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° C.

GC/MS VOA

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: Well 1-1A INF (480-54309-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) for batch 164965 recovered outside control limits for the following analyte: 2-Hexanone. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 165079 recovered outside control limits for the following analytes: 2-Hexanone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Instrument ID: HP5973C Analysis Batch Number: 164151Lab Sample ID: IC 480-164151/7 Client Sample ID: _____Date Analyzed: 02/01/14 02:18 Lab File ID: C36633.D GC Column: ZB-624 (30) ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl acetate	7.93	Peak Tail	Hilll	02/04/14 10:02
trans-1,4-Dichloro-2-butene	12.84	Missed Peak	Hilll	02/04/14 10:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Instrument ID: HP5973C Analysis Batch Number: 164965Lab Sample ID: LCS 480-164965/4 Client Sample ID: _____Date Analyzed: 02/07/14 11:53 Lab File ID: C36819.D GC Column: ZB-624 (30) ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	8.44	Coelution	Hilll	02/07/14 12:44

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-54309-1	Well 1-1A INF	Water	01/29/2014 1630	02/06/2014 0900
480-54309-2	Well 1-1A EFF	Water	01/29/2014 1635	02/06/2014 0900
480-54309-3	Trip Blank	Water	01/29/2014 0000	02/06/2014 0900

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-54309-1	WELL 1-1A INF					
1,1,1-Trichloroethane		120		2.0	ug/L	8260C
1,1-Dichloroethane		18		2.0	ug/L	8260C
1,1-Dichloroethene		9.7		2.0	ug/L	8260C
cis-1,2-Dichloroethene		39		2.0	ug/L	8260C
Methyl tert-butyl ether		2.2		2.0	ug/L	8260C
Trichloroethene		43		2.0	ug/L	8260C
Vinyl chloride		6.3		2.0	ug/L	8260C
480-54309-2	WELL 1-1A EFF					
1,1,1-Trichloroethane		2.9		1.0	ug/L	8260C
1,1-Dichloroethane		2.1		1.0	ug/L	8260C
cis-1,2-Dichloroethene		7.8		1.0	ug/L	8260C
Methyl tert-butyl ether		1.7		1.0	ug/L	8260C
Trichloroethene		2.9		1.0	ug/L	8260C

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

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

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Method	Analyst	Analyst ID
SW846 8260C	Hill, Leah C	LCH
SW846 8260C	Larson, Renee A	RAL

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Client Sample ID: Well 1-1A INF

Lab Sample ID: 480-54309-1

Client Matrix: Water

Date Sampled: 01/29/2014 1630

Date Received: 02/06/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-164965	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C36824.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/07/2014 1412			Final Weight/Volume:	5 mL
Prep Date:	02/07/2014 1412				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	2.0	U	0.70	2.0
1,1,1-Trichloroethane	120		1.6	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.42	2.0
1,1,2-Trichloroethane	2.0	U	0.46	2.0
1,1-Dichloroethane	18		0.76	2.0
1,1-Dichloroethene	9.7		0.58	2.0
1,2,4-Trichlorobenzene	2.0	U	0.82	2.0
1,2,4-Trimethylbenzene	2.0	U	1.5	2.0
1,2-Dibromo-3-Chloropropane	2.0	U	0.78	2.0
1,2-Dibromoethane	2.0	U	1.5	2.0
1,2-Dichlorobenzene	2.0	U	1.6	2.0
1,2-Dichloroethane	2.0	U	0.42	2.0
1,2-Dichloropropane	2.0	U	1.4	2.0
1,1-Dichloropropene	2.0	U	1.4	2.0
1,3,5-Trimethylbenzene	2.0	U	1.5	2.0
1,3-Dichlorobenzene	2.0	U	1.6	2.0
1,2,3-Trichlorobenzene	2.0	U	0.82	2.0
1,4-Dichlorobenzene	2.0	U	1.7	2.0
2-Butanone (MEK)	20	U	2.6	20
1,2,3-Trichloropropane	2.0	U	1.8	2.0
2-Hexanone	10	U *	2.5	10
p-Isopropyltoluene	2.0	U	0.62	2.0
4-Methyl-2-pentanone (MIBK)	10	U	4.2	10
Acetone	20	U	6.0	20
Benzene	2.0	U	0.82	2.0
Bromodichloromethane	2.0	U	0.78	2.0
Bromoform	2.0	U	0.52	2.0
Bromomethane	2.0	U	1.4	2.0
Carbon disulfide	2.0	U	0.38	2.0
Carbon tetrachloride	2.0	U	0.54	2.0
Chlorobenzene	2.0	U	1.5	2.0
Chloroethane	2.0	U	0.64	2.0
Chloroform	2.0	U	0.68	2.0
Chloromethane	2.0	U	0.70	2.0
cis-1,2-Dichloroethene	39		1.6	2.0
cis-1,3-Dichloropropene	2.0	U	0.72	2.0
Dibromochloromethane	2.0	U	0.64	2.0
Dichlorodifluoromethane	2.0	U	1.4	2.0
Ethylbenzene	2.0	U	1.5	2.0
Isopropylbenzene	2.0	U	1.6	2.0
m,p-Xylene	4.0	U	1.3	4.0
1,3-Dichloropropane	2.0	U	1.5	2.0
Methyl tert-butyl ether	2.2		0.32	2.0
Methylcyclohexane	2.0	U	0.32	2.0
Methylene Chloride	2.0	U	0.88	2.0
n-Butylbenzene	2.0	U	1.3	2.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Client Sample ID: Well 1-1A INF

Lab Sample ID: 480-54309-1

Date Sampled: 01/29/2014 1630

Client Matrix: Water

Date Received: 02/06/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-164965	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C36824.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/07/2014 1412			Final Weight/Volume:	5 mL
Prep Date:	02/07/2014 1412				

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Propylbenzene	2.0	U	1.4	2.0
o-Xylene	2.0	U	1.5	2.0
sec-Butylbenzene	2.0	U	1.5	2.0
Styrene	2.0	U	1.5	2.0
2,2-Dichloropropane	2.0	U	0.80	2.0
tert-Butylbenzene	2.0	U	1.6	2.0
Tetrachloroethene	2.0	U	0.72	2.0
Toluene	2.0	U	1.0	2.0
trans-1,2-Dichloroethene	2.0	U	1.8	2.0
trans-1,3-Dichloropropene	2.0	U	0.74	2.0
2-Chlorotoluene	2.0	U	1.7	2.0
Trichloroethene	43		0.92	2.0
Trichlorofluoromethane	2.0	U	1.8	2.0
4-Chlorotoluene	2.0	U	1.7	2.0
Bromobenzene	2.0	U	1.6	2.0
Dibromomethane	2.0	U	0.82	2.0
Hexachlorobutadiene	2.0	U	0.56	2.0
Naphthalene	2.0	U	0.86	2.0
Xylenes, Total	4.0	U	1.3	4.0
Vinyl chloride	6.3		1.8	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		66 - 137
4-Bromofluorobenzene (Surr)	110		73 - 120
Toluene-d8 (Surr)	111		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Client Sample ID: Well 1-1A EFF

Lab Sample ID: 480-54309-2

Date Sampled: 01/29/2014 1635

Client Matrix: Water

Date Received: 02/06/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-165079	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C36839.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/08/2014 0120			Final Weight/Volume:	5 mL
Prep Date:	02/08/2014 0120				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	1.0	U	0.35	1.0
1,1,1-Trichloroethane	2.9		0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	2.1		0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,1-Dichloropropene	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,2,3-Trichlorobenzene	1.0	U	0.41	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
1,2,3-Trichloropropane	1.0	U	0.89	1.0
2-Hexanone	5.0	U *	1.2	5.0
p-Isopropyltoluene	1.0	U	0.31	1.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	7.8		0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
m,p-Xylene	2.0	U	0.66	2.0
1,3-Dichloropropane	1.0	U	0.75	1.0
Methyl tert-butyl ether	1.7		0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
n-Butylbenzene	1.0	U	0.64	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Client Sample ID: Well 1-1A EFF

Lab Sample ID: 480-54309-2

Date Sampled: 01/29/2014 1635

Client Matrix: Water

Date Received: 02/06/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-165079	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C36839.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/08/2014 0120			Final Weight/Volume:	5 mL
Prep Date:	02/08/2014 0120				

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Propylbenzene	1.0	U	0.69	1.0
o-Xylene	1.0	U	0.76	1.0
sec-Butylbenzene	1.0	U	0.75	1.0
Styrene	1.0	U	0.73	1.0
2,2-Dichloropropane	1.0	U	0.40	1.0
tert-Butylbenzene	1.0	U	0.81	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
2-Chlorotoluene	1.0	U	0.86	1.0
Trichloroethene	2.9		0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
4-Chlorotoluene	1.0	U	0.84	1.0
Bromobenzene	1.0	U	0.80	1.0
Dibromomethane	1.0	U	0.41	1.0
Hexachlorobutadiene	1.0	U	0.28	1.0
Naphthalene	1.0	U	0.43	1.0
Xylenes, Total	2.0	U	0.66	2.0
Vinyl chloride	1.0	U	0.90	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115		66 - 137
4-Bromofluorobenzene (Surr)	110		73 - 120
Toluene-d8 (Surr)	110		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-54309-3

Date Sampled: 01/29/2014 0000

Client Matrix: Water

Date Received: 02/06/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-164965	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C36826.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/07/2014 1927			Final Weight/Volume:	5 mL
Prep Date:	02/07/2014 1927				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	1.0	U	0.35	1.0
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,1-Dichloropropene	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,2,3-Trichlorobenzene	1.0	U	0.41	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
1,2,3-Trichloropropane	1.0	U	0.89	1.0
2-Hexanone	5.0	U *	1.2	5.0
p-Isopropyltoluene	1.0	U	0.31	1.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
m,p-Xylene	2.0	U	0.66	2.0
1,3-Dichloropropane	1.0	U	0.75	1.0
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
n-Butylbenzene	1.0	U	0.64	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-54309-3

Date Sampled: 01/29/2014 0000

Client Matrix: Water

Date Received: 02/06/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-164965	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C36826.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/07/2014 1927			Final Weight/Volume:	5 mL
Prep Date:	02/07/2014 1927				

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Propylbenzene	1.0	U	0.69	1.0
o-Xylene	1.0	U	0.76	1.0
sec-Butylbenzene	1.0	U	0.75	1.0
Styrene	1.0	U	0.73	1.0
2,2-Dichloropropane	1.0	U	0.40	1.0
tert-Butylbenzene	1.0	U	0.81	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
2-Chlorotoluene	1.0	U	0.86	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
4-Chlorotoluene	1.0	U	0.84	1.0
Bromobenzene	1.0	U	0.80	1.0
Dibromomethane	1.0	U	0.41	1.0
Hexachlorobutadiene	1.0	U	0.28	1.0
Naphthalene	1.0	U	0.43	1.0
Xylenes, Total	2.0	U	0.66	2.0
Vinyl chloride	1.0	U	0.90	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114		66 - 137
4-Bromofluorobenzene (Surr)	110		73 - 120
Toluene-d8 (Surr)	111		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Surrogate Recovery Report**8260C Volatile Organic Compounds by GC/MS****Client Matrix: Water**

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-54309-1	Well 1-1A INF	116	111	110
480-54309-2	Well 1-1A EFF	115	110	110
480-54309-3	Trip Blank	114	111	110
MB 480-164965/6		113	108	108
MB 480-165079/6		109	106	108
LCS 480-164965/4		124	111	114
LCS 480-165079/4		122	111	113

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Method Blank - Batch: 480-164965

Method: 8260C Preparation: 5030C

Lab Sample ID: MB 480-164965/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/07/2014 1244
Prep Date: 02/07/2014 1244
Leach Date: N/A

Analysis Batch: 480-164965
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973C
Lab File ID: C36821.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	1.0	U	0.35	1.0
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,1-Dichloropropene	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,2,3-Trichlorobenzene	1.0	U	0.41	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
1,2,3-Trichloropropane	1.0	U	0.89	1.0
2-Hexanone	5.0	U	1.2	5.0
p-Isopropyltoluene	1.0	U	0.31	1.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
m,p-Xylene	2.0	U	0.66	2.0
1,3-Dichloropropane	1.0	U	0.75	1.0
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Method Blank - Batch: 480-164965

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-164965/6
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/07/2014 1244
 Prep Date: 02/07/2014 1244
 Leach Date: N/A

Analysis Batch: 480-164965
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973C
 Lab File ID: C36821.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
n-Butylbenzene	1.0	U	0.64	1.0
N-Propylbenzene	1.0	U	0.69	1.0
o-Xylene	1.0	U	0.76	1.0
sec-Butylbenzene	1.0	U	0.75	1.0
Styrene	1.0	U	0.73	1.0
2,2-Dichloropropane	1.0	U	0.40	1.0
tert-Butylbenzene	1.0	U	0.81	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
2-Chlorotoluene	1.0	U	0.86	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
4-Chlorotoluene	1.0	U	0.84	1.0
Bromobenzene	1.0	U	0.80	1.0
Dibromomethane	1.0	U	0.41	1.0
Hexachlorobutadiene	1.0	U	0.28	1.0
Naphthalene	1.0	U	0.43	1.0
Xylenes, Total	2.0	U	0.66	2.0
Vinyl chloride	1.0	U	0.90	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113	66 - 137
4-Bromofluorobenzene (Surr)	108	73 - 120
Toluene-d8 (Surr)	108	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Lab Control Sample - Batch: 480-164965

Method: 8260C

Preparation: 5030C

Lab Sample ID: LCS 480-164965/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/07/2014 1153
 Prep Date: 02/07/2014 1153
 Leach Date: N/A

Analysis Batch: 480-164965
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973C
 Lab File ID: C36819.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	26.5	106	71 - 129	
1,1-Dichloroethene	25.0	26.4	105	58 - 121	
1,2,4-Trimethylbenzene	25.0	26.0	104	76 - 121	
1,2-Dichlorobenzene	25.0	24.9	100	80 - 124	
1,2-Dichloroethane	25.0	26.3	105	75 - 127	
Benzene	25.0	25.9	104	71 - 124	
Chlorobenzene	25.0	25.1	100	72 - 120	
cis-1,2-Dichloroethene	25.0	26.3	105	74 - 124	
Ethylbenzene	25.0	25.8	103	77 - 123	
m,p-Xylene	25.0	25.9	104	76 - 122	
Methyl tert-butyl ether	25.0	27.2	109	64 - 127	
o-Xylene	25.0	26.3	105	76 - 122	
Tetrachloroethene	25.0	25.7	103	74 - 122	
Toluene	25.0	25.5	102	80 - 122	
trans-1,2-Dichloroethene	25.0	26.0	104	73 - 127	
Trichloroethene	25.0	26.8	107	74 - 123	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	124		66 - 137		
4-Bromofluorobenzene (Surr)	114		73 - 120		
Toluene-d8 (Surr)	111		71 - 126		

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Method Blank - Batch: 480-165079

Method: 8260C Preparation: 5030C

Lab Sample ID: MB 480-165079/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/08/2014 0028
Prep Date: 02/08/2014 0028
Leach Date: N/A

Analysis Batch: 480-165079
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973C
Lab File ID: C36838.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	1.0	U	0.35	1.0
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,1-Dichloropropene	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,2,3-Trichlorobenzene	1.0	U	0.41	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
1,2,3-Trichloropropane	1.0	U	0.89	1.0
2-Hexanone	5.0	U	1.2	5.0
p-Isopropyltoluene	1.0	U	0.31	1.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
m,p-Xylene	2.0	U	0.66	2.0
1,3-Dichloropropane	1.0	U	0.75	1.0
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Method Blank - Batch: 480-165079

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-165079/6
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/08/2014 0028
 Prep Date: 02/08/2014 0028
 Leach Date: N/A

Analysis Batch: 480-165079
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973C
 Lab File ID: C36838.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
n-Butylbenzene	1.0	U	0.64	1.0
N-Propylbenzene	1.0	U	0.69	1.0
o-Xylene	1.0	U	0.76	1.0
sec-Butylbenzene	1.0	U	0.75	1.0
Styrene	1.0	U	0.73	1.0
2,2-Dichloropropane	1.0	U	0.40	1.0
tert-Butylbenzene	1.0	U	0.81	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
2-Chlorotoluene	1.0	U	0.86	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
4-Chlorotoluene	1.0	U	0.84	1.0
Bromobenzene	1.0	U	0.80	1.0
Dibromomethane	1.0	U	0.41	1.0
Hexachlorobutadiene	1.0	U	0.28	1.0
Naphthalene	1.0	U	0.43	1.0
Xylenes, Total	2.0	U	0.66	2.0
Vinyl chloride	1.0	U	0.90	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109	66 - 137
4-Bromofluorobenzene (Surr)	108	73 - 120
Toluene-d8 (Surr)	106	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Lab Control Sample - Batch: 480-165079

Method: 8260C

Preparation: 5030C

Lab Sample ID: LCS 480-165079/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/07/2014 2338
 Prep Date: 02/07/2014 2338
 Leach Date: N/A

Analysis Batch: 480-165079
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973C
 Lab File ID: C36836.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	25.0	100	71 - 129	
1,1-Dichloroethene	25.0	24.7	99	58 - 121	
1,2,4-Trimethylbenzene	25.0	24.4	98	76 - 121	
1,2-Dichlorobenzene	25.0	23.8	95	80 - 124	
1,2-Dichloroethane	25.0	24.7	99	75 - 127	
Benzene	25.0	24.4	98	71 - 124	
Chlorobenzene	25.0	24.1	96	72 - 120	
cis-1,2-Dichloroethene	25.0	25.0	100	74 - 124	
Ethylbenzene	25.0	24.5	98	77 - 123	
m,p-Xylene	25.0	24.8	99	76 - 122	
Methyl tert-butyl ether	25.0	25.5	102	64 - 127	
o-Xylene	25.0	25.3	101	76 - 122	
Tetrachloroethene	25.0	24.9	100	74 - 122	
Toluene	25.0	24.0	96	80 - 122	
trans-1,2-Dichloroethene	25.0	24.7	99	73 - 127	
Trichloroethene	25.0	25.3	101	74 - 123	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	122		66 - 137		
4-Bromofluorobenzene (Surr)	113		73 - 120		
Toluene-d8 (Surr)	111		71 - 126		

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-164965					
LCS 480-164965/4	Lab Control Sample	T	Water	8260C	
MB 480-164965/6	Method Blank	T	Water	8260C	
480-54309-1	Well 1-1A INF	T	Water	8260C	
480-54309-3	Trip Blank	T	Water	8260C	
Analysis Batch:480-165079					
LCS 480-165079/4	Lab Control Sample	T	Water	8260C	
MB 480-165079/6	Method Blank	T	Water	8260C	
480-54309-2	Well 1-1A EFF	T	Water	8260C	

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Laboratory Chronicle

Lab ID: 480-54309-1

Client ID: Well 1-1A INF

Sample Date/Time: 01/29/2014 16:30

Received Date/Time: 02/06/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-54309-A-1		480-164965		02/07/2014 14:12	2	TAL BUF	RAL
A:8260C	480-54309-A-1		480-164965		02/07/2014 14:12	2	TAL BUF	RAL

Lab ID: 480-54309-2

Client ID: Well 1-1A EFF

Sample Date/Time: 01/29/2014 16:35

Received Date/Time: 02/06/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-54309-B-2		480-165079		02/08/2014 01:20	1	TAL BUF	LCH
A:8260C	480-54309-B-2		480-165079		02/08/2014 01:20	1	TAL BUF	LCH

Lab ID: 480-54309-3

Client ID: Trip Blank

Sample Date/Time: 01/29/2014 00:00

Received Date/Time: 02/06/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-54309-A-3		480-164965		02/07/2014 19:27	1	TAL BUF	RAL
A:8260C	480-54309-A-3		480-164965		02/07/2014 19:27	1	TAL BUF	RAL

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 480-164965/6		480-164965		02/07/2014 12:44	1	TAL BUF	RAL
A:8260C	MB 480-164965/6		480-164965		02/07/2014 12:44	1	TAL BUF	RAL
P:5030C	MB 480-165079/6		480-165079		02/08/2014 00:28	1	TAL BUF	LCH
A:8260C	MB 480-165079/6		480-165079		02/08/2014 00:28	1	TAL BUF	LCH

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 480-164965/4		480-164965		02/07/2014 11:53	1	TAL BUF	RAL
A:8260C	LCS 480-164965/4		480-164965		02/07/2014 11:53	1	TAL BUF	RAL
P:5030C	LCS 480-165079/4		480-165079		02/07/2014 23:38	1	TAL BUF	LCH
A:8260C	LCS 480-165079/4		480-165079		02/07/2014 23:38	1	TAL BUF	LCH

Lab References:

TAL BUF = TestAmerica Buffalo

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Well 1-1A Sampling LMCO

TestAmerica Job ID: 480-54309-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAP	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAP	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAP	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAP	7	E-10187
TestAmerica Buffalo	Kentucky (DW)	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAP	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAP	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAP	1	2337
TestAmerica Buffalo	New Hampshire	NELAP	1	2973
TestAmerica Buffalo	New Jersey	NELAP	2	NY455
TestAmerica Buffalo	New York	NELAP	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAP	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAP	3	68-00281
TestAmerica Buffalo	Rhode Island	State Program	1	LAO00328
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAP	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAP	3	460185
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): ZB-624 (30) ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
Well 1-1A INF	480-54309-1	116	111	110
Well 1-1A EFF	480-54309-2	115	110	110
Trip Blank	480-54309-3	114	111	110
	MB 480-164965/6	113	108	108
	MB 480-165079/6	109	106	108
	LCS 480-164965/4	124	111	114
	LCS 480-165079/4	122	111	113

	<u>QC LIMITS</u>
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: C36819.D
 Lab ID: LCS 480-164965/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	26.5	106	71-129	
1,1-Dichloroethene	25.0	26.4	105	58-121	
1,2,4-Trimethylbenzene	25.0	26.0	104	76-121	
1,2-Dichlorobenzene	25.0	24.9	100	80-124	
1,2-Dichloroethane	25.0	26.3	105	75-127	
Benzene	25.0	25.9	104	71-124	
Chlorobenzene	25.0	25.1	100	72-120	
cis-1,2-Dichloroethene	25.0	26.3	105	74-124	
Ethylbenzene	25.0	25.8	103	77-123	
m,p-Xylene	25.0	25.9	104	76-122	
Methyl tert-butyl ether	25.0	27.2	109	64-127	
o-Xylene	25.0	26.3	105	76-122	
Tetrachloroethene	25.0	25.7	103	74-122	
Toluene	25.0	25.5	102	80-122	
trans-1,2-Dichloroethene	25.0	26.0	104	73-127	
Trichloroethene	25.0	26.8	107	74-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: C36836.D
 Lab ID: LCS 480-165079/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	25.0	100	71-129	
1,1-Dichloroethene	25.0	24.7	99	58-121	
1,2,4-Trimethylbenzene	25.0	24.4	98	76-121	
1,2-Dichlorobenzene	25.0	23.8	95	80-124	
1,2-Dichloroethane	25.0	24.7	99	75-127	
Benzene	25.0	24.4	98	71-124	
Chlorobenzene	25.0	24.1	96	72-120	
cis-1,2-Dichloroethene	25.0	25.0	100	74-124	
Ethylbenzene	25.0	24.5	98	77-123	
m,p-Xylene	25.0	24.8	99	76-122	
Methyl tert-butyl ether	25.0	25.5	102	64-127	
o-Xylene	25.0	25.3	101	76-122	
Tetrachloroethene	25.0	24.9	100	74-122	
Toluene	25.0	24.0	96	80-122	
trans-1,2-Dichloroethene	25.0	24.7	99	73-127	
Trichloroethene	25.0	25.3	101	74-123	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
SDG No.: _____
Lab File ID: C36821.D Lab Sample ID: MB 480-164965/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973C Date Analyzed: 02/07/2014 12:44
GC Column: ZB-624 (30) ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-164965/4	C36819.D	02/07/2014 11:53
Well 1-1A INF	480-54309-1	C36824.D	02/07/2014 14:12
Trip Blank	480-54309-3	C36826.D	02/07/2014 19:27

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
SDG No.: _____
Lab File ID: C36838.D Lab Sample ID: MB 480-165079/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973C Date Analyzed: 02/08/2014 00:28
GC Column: ZB-624 (30) ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-165079/4	C36836.D	02/07/2014 23:38
Well 1-1A EFF	480-54309-2	C36839.D	02/08/2014 01:20

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

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
SDG No.: _____
Lab File ID: C36630.D BFB Injection Date: 02/01/2014
Instrument ID: HP5973C BFB Injection Time: 00:58
Analysis Batch No.: 164151

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	24.1
75	30.0 - 60.0 % of mass 95	51.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.9
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	82.0
175	5.0 - 9.0 % of mass 174	6.1 (7.4) 1
176	95.0 - 101.0 % of mass 174	79.3 (96.7) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.9) 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 480-164151/5	C36632.D	02/01/2014	01:53
	IC 480-164151/7	C36633.D	02/01/2014	02:18
	IC 480-164151/8	C36634.D	02/01/2014	02:43
	IC 480-164151/9	C36635.D	02/01/2014	03:09
	ICIS 480-164151/10	C36636.D	02/01/2014	03:34
	IC 480-164151/11	C36637.D	02/01/2014	03:59
	IC 480-164151/12	C36638.D	02/01/2014	04:24

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

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
 SDG No.: _____
 Lab File ID: C36816.D BFB Injection Date: 02/07/2014
 Instrument ID: HP5973C BFB Injection Time: 10:21
 Analysis Batch No.: 164965

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	26.8
75	30.0 - 60.0 % of mass 95	53.1
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	0.3 (0.4) 1
174	50.0 - 120.00 % of mass 95	79.4
175	5.0 - 9.0 % of mass 174	6.0 (7.5) 1
176	95.0 - 101.0 % of mass 174	76.6 (96.5) 1
177	5.0 - 9.0 % of mass 176	5.2 (6.8) 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
	CCVIS 480-164965/2	C36817.D	02/07/2014	10:51
	LCS 480-164965/4	C36819.D	02/07/2014	11:53
	MB 480-164965/6	C36821.D	02/07/2014	12:44
Well 1-1A INF	480-54309-1	C36824.D	02/07/2014	14:12
Trip Blank	480-54309-3	C36826.D	02/07/2014	19:27

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

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
SDG No.: _____
Lab File ID: C36833.D BFB Injection Date: 02/07/2014
Instrument ID: HP5973C BFB Injection Time: 22:20
Analysis Batch No.: 165079

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	25.8
75	30.0 - 60.0 % of mass 95	53.0
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	0.3 (0.4) 1
174	50.0 - 120.00 % of mass 95	84.3
175	5.0 - 9.0 % of mass 174	6.7 (7.9) 1
176	95.0 - 101.0 % of mass 174	81.5 (96.7) 1
177	5.0 - 9.0 % of mass 176	5.4 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-165079/2	C36834.D	02/07/2014	22:48
	LCS 480-165079/4	C36836.D	02/07/2014	23:38
	MB 480-165079/6	C36838.D	02/08/2014	00:28
Well 1-1A EFF	480-54309-2	C36839.D	02/08/2014	01:20

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

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
 SDG No.: _____
 Sample No.: ICIS 480-164151/10 Date Analyzed: 02/01/2014 03:34
 Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53 (mm)
 Lab File ID (Standard): C36636.D Heated Purge: (Y/N) N
 Calibration ID: 17365

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	435478	9.38	185095	11.79	175625	13.80	
UPPER LIMIT	870956	9.88	370190	12.29	351250	14.30	
LOWER LIMIT	217739	8.88	92548	11.29	87813	13.30	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-164965/2		448863	9.38	199378	11.79	186522	13.80
CCVIS 480-165079/2		439807	9.38	192702	11.79	185485	13.80

FB = Fluorobenzene (IS)

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
 SDG No.: _____
 Sample No.: CCVIS 480-164965/2 Date Analyzed: 02/07/2014 10:51
 Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53 (mm)
 Lab File ID (Standard): C36817.D Heated Purge: (Y/N) N
 Calibration ID: 17368

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	448863	9.38	199378	11.79	186522	13.80	
UPPER LIMIT	897726	9.88	398756	12.29	373044	14.30	
LOWER LIMIT	224432	8.88	99689	11.29	93261	13.30	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-164965/4		431958	9.38	190940	11.79	183416	13.80
MB 480-164965/6		436988	9.39	193711	11.79	179553	13.80
480-54309-1	Well 1-1A INF	433735	9.38	190284	11.79	176987	13.80
480-54309-3	Trip Blank	454252	9.39	195637	11.80	181235	13.82

FB = Fluorobenzene (IS)

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
 SDG No.: _____
 Sample No.: CCVIS 480-165079/2 Date Analyzed: 02/07/2014 22:48
 Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53 (mm)
 Lab File ID (Standard): C36834.D Heated Purge: (Y/N) N
 Calibration ID: 17368

		FB		CBZ		DCB		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		439807	9.38	192702	11.79	185485	13.80	
UPPER LIMIT		879614	9.88	385404	12.29	370970	14.30	
LOWER LIMIT		219904	8.88	96351	11.29	92743	13.30	
LAB SAMPLE ID		CLIENT SAMPLE ID						
LCS 480-165079/4		431039	9.39	189038	11.79	184445	13.80	
MB 480-165079/6		441281	9.39	194558	11.79	182224	13.80	
480-54309-2		Well 1-1A EFF	462779	9.38	200961	11.80	191539	13.82

FB = Fluorobenzene (IS)

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: Well 1-1A INF Lab Sample ID: 480-54309-1

Matrix: Water Lab File ID: C36824.D

Analysis Method: 8260C Date Collected: 01/29/2014 16:30

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 14:12

Soil Aliquot Vol: _____ Dilution Factor: 2

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 164965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	2.0	0.70
71-55-6	1,1,1-Trichloroethane	120		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42
79-00-5	1,1,2-Trichloroethane	2.0	U	2.0	0.46
75-34-3	1,1-Dichloroethane	18		2.0	0.76
75-35-4	1,1-Dichloroethene	9.7		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	2.0	U	2.0	0.82
95-63-6	1,2,4-Trimethylbenzene	2.0	U	2.0	1.5
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78
106-93-4	1,2-Dibromoethane	2.0	U	2.0	1.5
95-50-1	1,2-Dichlorobenzene	2.0	U	2.0	1.6
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.42
78-87-5	1,2-Dichloropropane	2.0	U	2.0	1.4
563-58-6	1,1-Dichloropropene	2.0	U	2.0	1.4
108-67-8	1,3,5-Trimethylbenzene	2.0	U	2.0	1.5
541-73-1	1,3-Dichlorobenzene	2.0	U	2.0	1.6
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	0.82
106-46-7	1,4-Dichlorobenzene	2.0	U	2.0	1.7
78-93-3	2-Butanone (MEK)	20	U	20	2.6
96-18-4	1,2,3-Trichloropropane	2.0	U	2.0	1.8
591-78-6	2-Hexanone	10	U *	10	2.5
99-87-6	p-Isopropyltoluene	2.0	U	2.0	0.62
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	4.2
67-64-1	Acetone	20	U	20	6.0
71-43-2	Benzene	2.0	U	2.0	0.82
75-27-4	Bromodichloromethane	2.0	U	2.0	0.78
75-25-2	Bromoform	2.0	U	2.0	0.52
74-83-9	Bromomethane	2.0	U	2.0	1.4
75-15-0	Carbon disulfide	2.0	U	2.0	0.38
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.54
108-90-7	Chlorobenzene	2.0	U	2.0	1.5
75-00-3	Chloroethane	2.0	U	2.0	0.64
67-66-3	Chloroform	2.0	U	2.0	0.68
74-87-3	Chloromethane	2.0	U	2.0	0.70
156-59-2	cis-1,2-Dichloroethene	39		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0	0.72

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: Well 1-1A INF Lab Sample ID: 480-54309-1

Matrix: Water Lab File ID: C36824.D

Analysis Method: 8260C Date Collected: 01/29/2014 16:30

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 14:12

Soil Aliquot Vol: _____ Dilution Factor: 2

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 164965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	2.0	U	2.0	0.64
75-71-8	Dichlorodifluoromethane	2.0	U	2.0	1.4
100-41-4	Ethylbenzene	2.0	U	2.0	1.5
98-82-8	Isopropylbenzene	2.0	U	2.0	1.6
179601-23-1	m,p-Xylene	4.0	U	4.0	1.3
142-28-9	1,3-Dichloropropane	2.0	U	2.0	1.5
1634-04-4	Methyl tert-butyl ether	2.2		2.0	0.32
108-87-2	Methylcyclohexane	2.0	U	2.0	0.32
75-09-2	Methylene Chloride	2.0	U	2.0	0.88
104-51-8	n-Butylbenzene	2.0	U	2.0	1.3
103-65-1	N-Propylbenzene	2.0	U	2.0	1.4
95-47-6	o-Xylene	2.0	U	2.0	1.5
135-98-8	sec-Butylbenzene	2.0	U	2.0	1.5
100-42-5	Styrene	2.0	U	2.0	1.5
594-20-7	2,2-Dichloropropane	2.0	U	2.0	0.80
98-06-6	tert-Butylbenzene	2.0	U	2.0	1.6
127-18-4	Tetrachloroethene	2.0	U	2.0	0.72
108-88-3	Toluene	2.0	U	2.0	1.0
156-60-5	trans-1,2-Dichloroethene	2.0	U	2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0	0.74
95-49-8	2-Chlorotoluene	2.0	U	2.0	1.7
79-01-6	Trichloroethene	43		2.0	0.92
75-69-4	Trichlorofluoromethane	2.0	U	2.0	1.8
106-43-4	4-Chlorotoluene	2.0	U	2.0	1.7
108-86-1	Bromobenzene	2.0	U	2.0	1.6
74-95-3	Dibromomethane	2.0	U	2.0	0.82
87-68-3	Hexachlorobutadiene	2.0	U	2.0	0.56
91-20-3	Naphthalene	2.0	U	2.0	0.86
1330-20-7	Xylenes, Total	4.0	U	4.0	1.3
75-01-4	Vinyl chloride	6.3		2.0	1.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
SDG No.: _____
Client Sample ID: Well 1-1A INF Lab Sample ID: 480-54309-1
Matrix: Water Lab File ID: C36824.D
Analysis Method: 8260C Date Collected: 01/29/2014 16:30
Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 14:12
Soil Aliquot Vol: _____ Dilution Factor: 2
Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 164965 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		66-137
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
2037-26-5	Toluene-d8 (Surr)	111		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36824.D
 Lims ID: 480-54309-A-1 Lab Sample ID: 480-54309-1
 Client ID: Well 1-1A INF
 Sample Type: Client
 Inject. Date: 07-Feb-2014 14:12:30 ALS Bottle#: 94 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 2.0000
 Sample Info: 480-54309-A-1
 Misc. Info.: 480-0029361-009
 Operator ID: LH Instrument ID: HP5973C
 Method: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 07-Feb-2014 22:22:14 Calib Date: 03-Feb-2014 23:32:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973C\20140203-29245.b\C36656.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: larsonr

Date: 07-Feb-2014 19:11:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.381	9.381	0.0	97	433735	25.0	
* 2 Chlorobenzene-d5	82	11.788	11.788	0.0	91	190284	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.804	13.804	0.0	96	176987	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.167	9.156	0.011	0	72429	28.9	
\$ 5 Toluene-d8 (Surr)	98	10.602	10.602	0.0	95	375483	27.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	85	111884	27.6	
10 Dichlorodifluoromethane	85		4.471					
12 Chloromethane	50		4.863					
13 Vinyl chloride	62	5.088	5.100	-0.012	66	32971	3.13	
14 Bromomethane	94		5.705					
15 Chloroethane	64		5.835					
17 Trichlorofluoromethane	101		6.191					
22 1,1-Dichloroethene	96	6.831	6.819	0.012	92	32290	4.87	
23 Acetone	43		6.890					
26 Carbon disulfide	76		7.151					
30 Methylene Chloride	84		7.353					
32 Methyl tert-butyl ether	73	7.519	7.519	0.0	83	23218	1.09	
34 trans-1,2-Dichloroethene	96		7.590					
39 1,1-Dichloroethane	63	7.981	7.981	0.0	82	136185	8.85	
43 2-Butanone (MEK)	43		8.444					
44 2,2-Dichloropropane	77		8.479					
45 cis-1,2-Dichloroethene	96	8.480	8.479	0.001	74	153110	19.3	
50 Chloroform	83		8.717					
51 1,1,1-Trichloroethane	97	8.895	8.895	0.0	90	706284	62.1	
54 1,1-Dichloropropene	75		9.001					
55 Carbon tetrachloride	117		9.025					
57 Benzene	78		9.203					
58 1,2-Dichloroethane	62		9.227					
1 1,4-Difluorobenzene	114		9.417					
62 Trichloroethene	95	9.677	9.665	0.012	91	153953	21.7	
64 Methylcyclohexane	83		9.808					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		9.879					
67 Dibromomethane	93		10.021					
68 Dichlorobromomethane	83		10.080					
72 cis-1,3-Dichloropropene	75		10.401					
73 4-Methyl-2-pentanone (MIBK)	43		10.436					
74 Toluene	92		10.661					
77 trans-1,3-Dichloropropene	75		10.816					
79 1,1,2-Trichloroethane	83		10.993					
80 2-Hexanone	43		11.076					
81 Tetrachloroethene	166		11.112					
82 1,3-Dichloropropane	76		11.136					
83 Chlorodibromomethane	129		11.361					
84 Ethylene Dibromide	107		11.492					
87 Chlorobenzene	112		11.824					
88 Ethylbenzene	91		11.824					
89 1,1,1,2-Tetrachloroethane	131		11.859					
90 m-Xylene & p-Xylene	106		11.907					
91 o-Xylene	106		12.250					
92 Styrene	104		12.262					
94 Isopropylbenzene	105		12.523					
95 Bromoform	173		12.547					
97 1,1,2,2-Tetrachloroethane	83		12.820					
99 N-Propylbenzene	91		12.867					
100 1,2,3-Trichloropropane	110		12.903					
101 Bromobenzene	156		12.926					
102 1,3,5-Trimethylbenzene	105		12.986					
103 2-Chlorotoluene	126		13.045					
105 4-Chlorotoluene	126		13.128					
106 tert-Butylbenzene	134		13.318					
107 1,2,4-Trimethylbenzene	105		13.353					
109 sec-Butylbenzene	105		13.519					
110 4-Isopropyltoluene	119		13.614					
111 1,3-Dichlorobenzene	146		13.757					
113 1,4-Dichlorobenzene	146		13.840					
115 n-Butylbenzene	91		14.029					
116 1,2-Dichlorobenzene	146		14.255					
117 1,2-Dibromo-3-Chloropropane	75		15.144					
119 1,2,4-Trichlorobenzene	180		16.176					
120 Hexachlorobutadiene	225		16.271					
121 Naphthalene	128		16.614					
122 1,2,3-Trichlorobenzene	180		16.982					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36824.D

Injection Date: 07-Feb-2014 14:12:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: 480-54309-A-1

Lab Sample ID: 480-54309-1

Worklist Smp#: 9

Client ID: Well 1-1A INF

Purge Vol: 5.000 mL

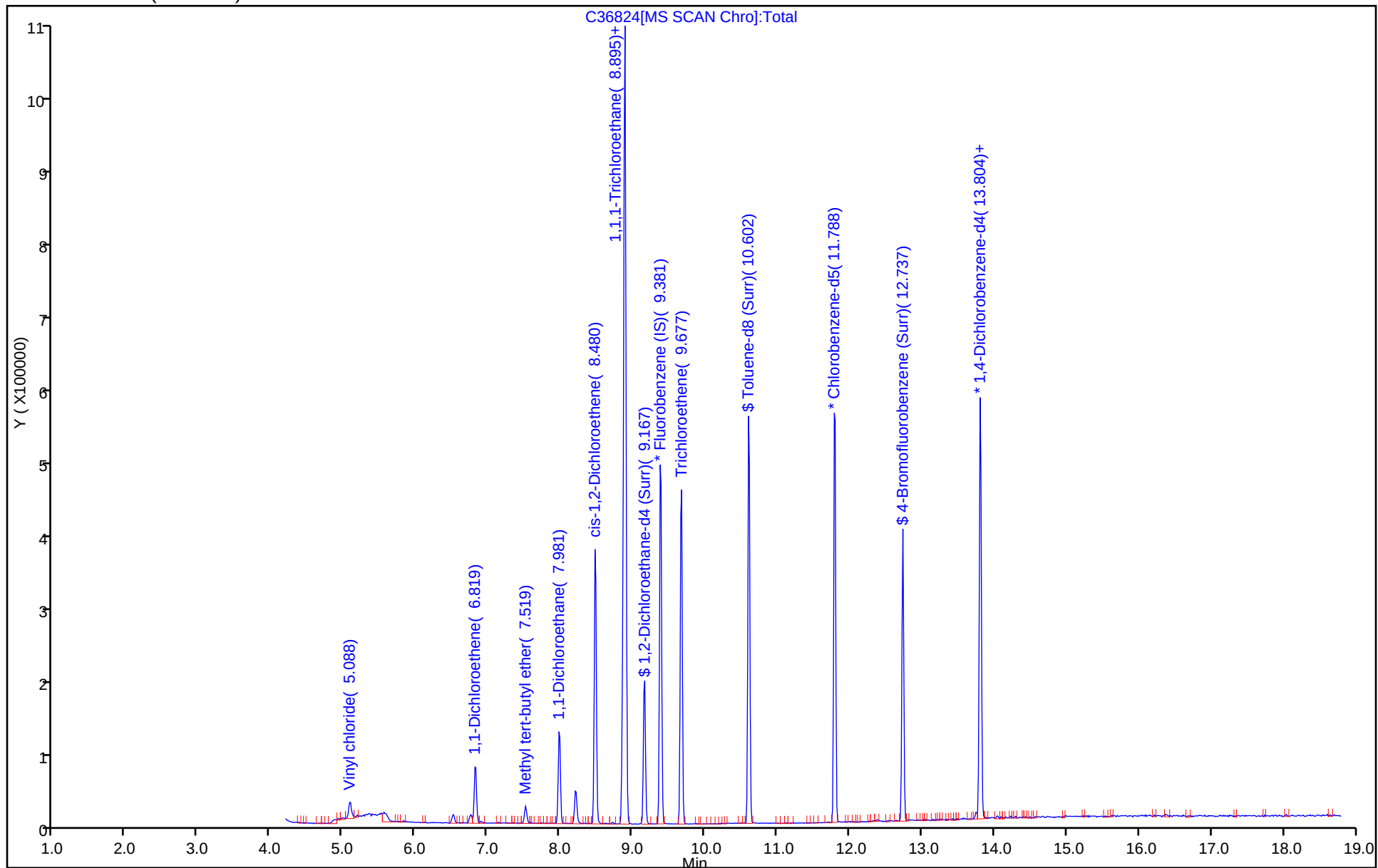
Dil. Factor: 2.0000

ALS Bottle#: 94

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36824.D

Injection Date: 07-Feb-2014 14:12:30

Instrument ID: HP5973C

Lims ID: 480-54309-A-1

Lab Sample ID: 480-54309-1

Client ID: Well 1-1A INF

Operator ID: LH

ALS Bottle#: 94

Worklist Smp#: 9

Purge Vol: 5.000 mL

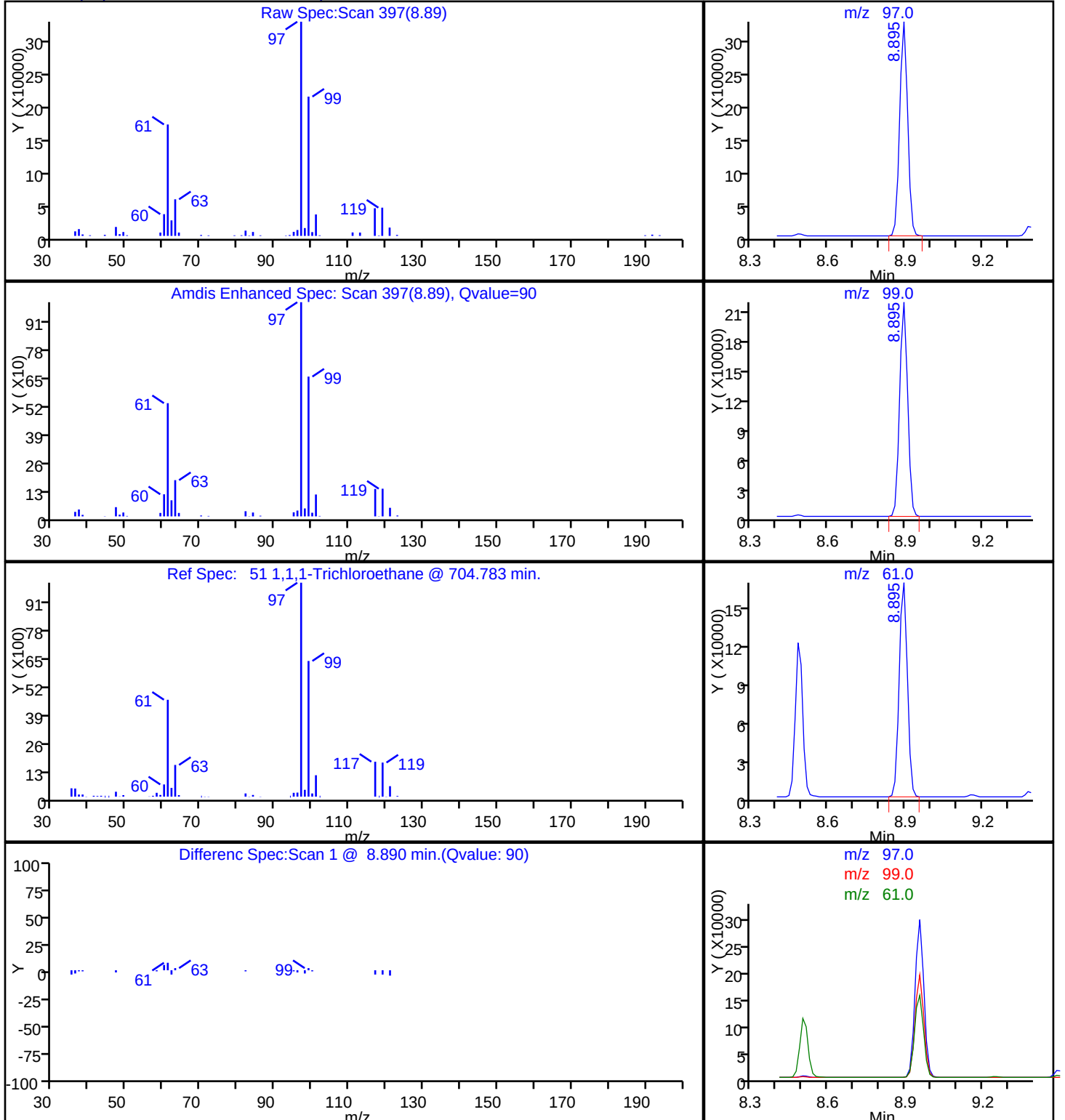
Dil. Factor: 2.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36824.D

Injection Date: 07-Feb-2014 14:12:30

Instrument ID: HP5973C

Lims ID: 480-54309-A-1

Lab Sample ID: 480-54309-1

Client ID: Well 1-1A INF

Operator ID: LH

ALS Bottle#: 94

Worklist Smp#: 9

Purge Vol: 5.000 mL

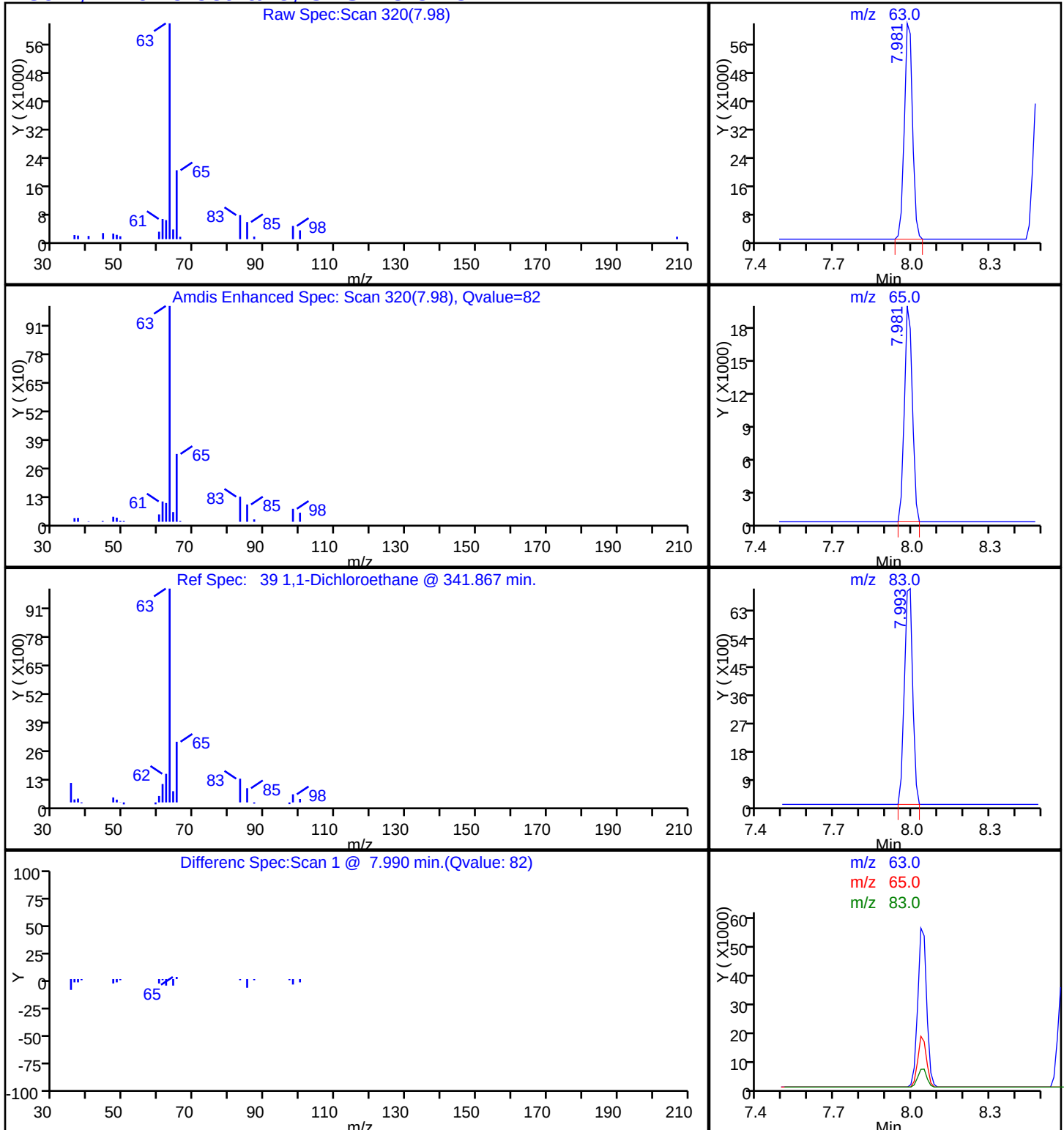
Dil. Factor: 2.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36824.D

Injection Date: 07-Feb-2014 14:12:30

Instrument ID: HP5973C

Lims ID: 480-54309-A-1

Lab Sample ID: 480-54309-1

Client ID: Well 1-1A INF

Operator ID: LH

ALS Bottle#: 94

Worklist Smp#: 9

Purge Vol: 5.000 mL

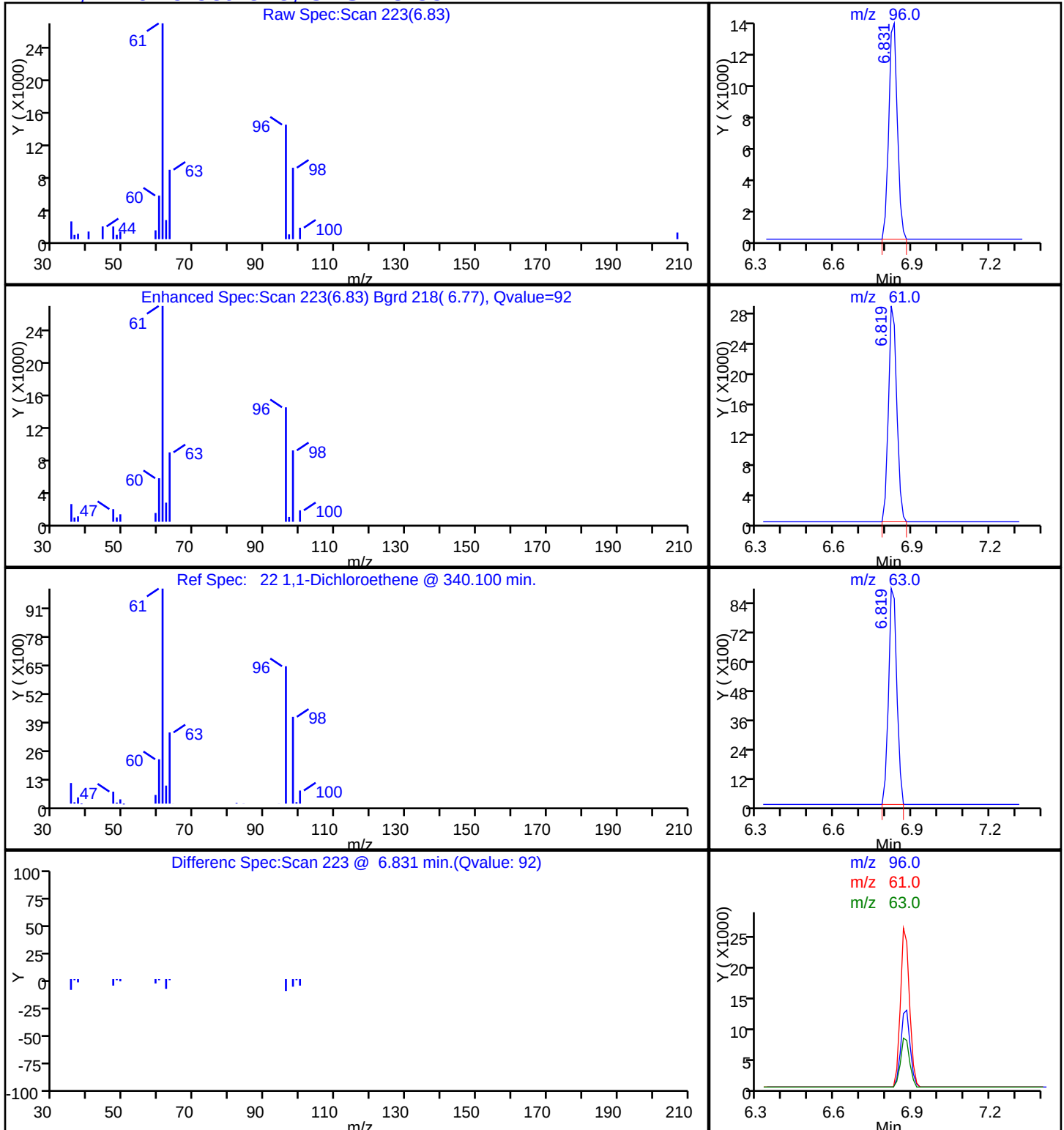
Dil. Factor: 2.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36824.D

Injection Date: 07-Feb-2014 14:12:30

Instrument ID: HP5973C

Lims ID: 480-54309-A-1

Lab Sample ID: 480-54309-1

Client ID: Well 1-1A INF

Operator ID: LH

ALS Bottle#: 94

Worklist Smp#: 9

Purge Vol: 5.000 mL

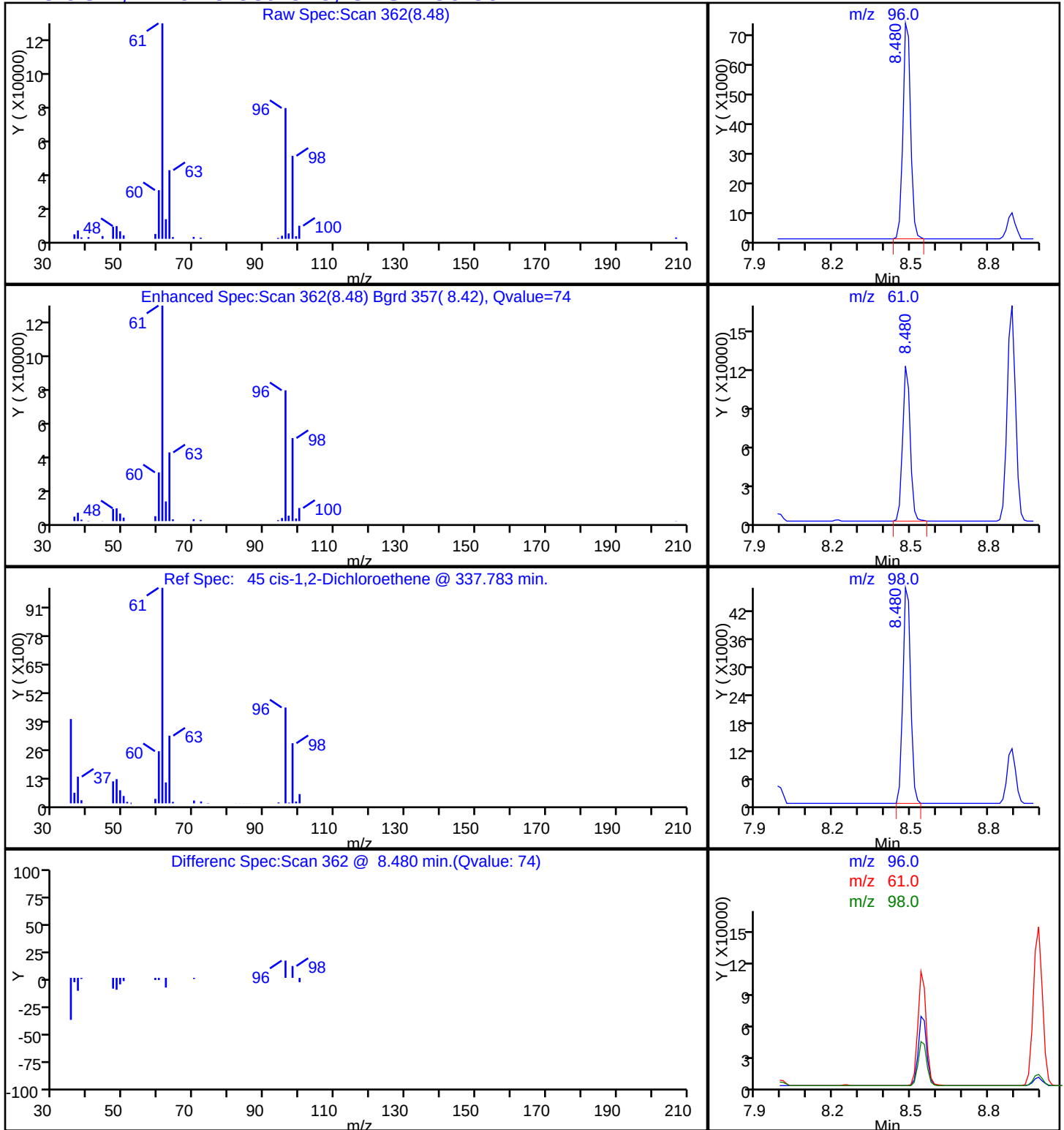
Dil. Factor: 2.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973C\\20140207-29361.b\\C36824.D

Injection Date: 07-Feb-2014 14:12:30

Instrument ID: HP5973C

Lims ID: 480-54309-A-1

Lab Sample ID: 480-54309-1

Client ID: Well 1-1A INF

Operator ID: LH

ALS Bottle#: 94

Worklist Smp#: 9

Purge Vol: 5.000 mL

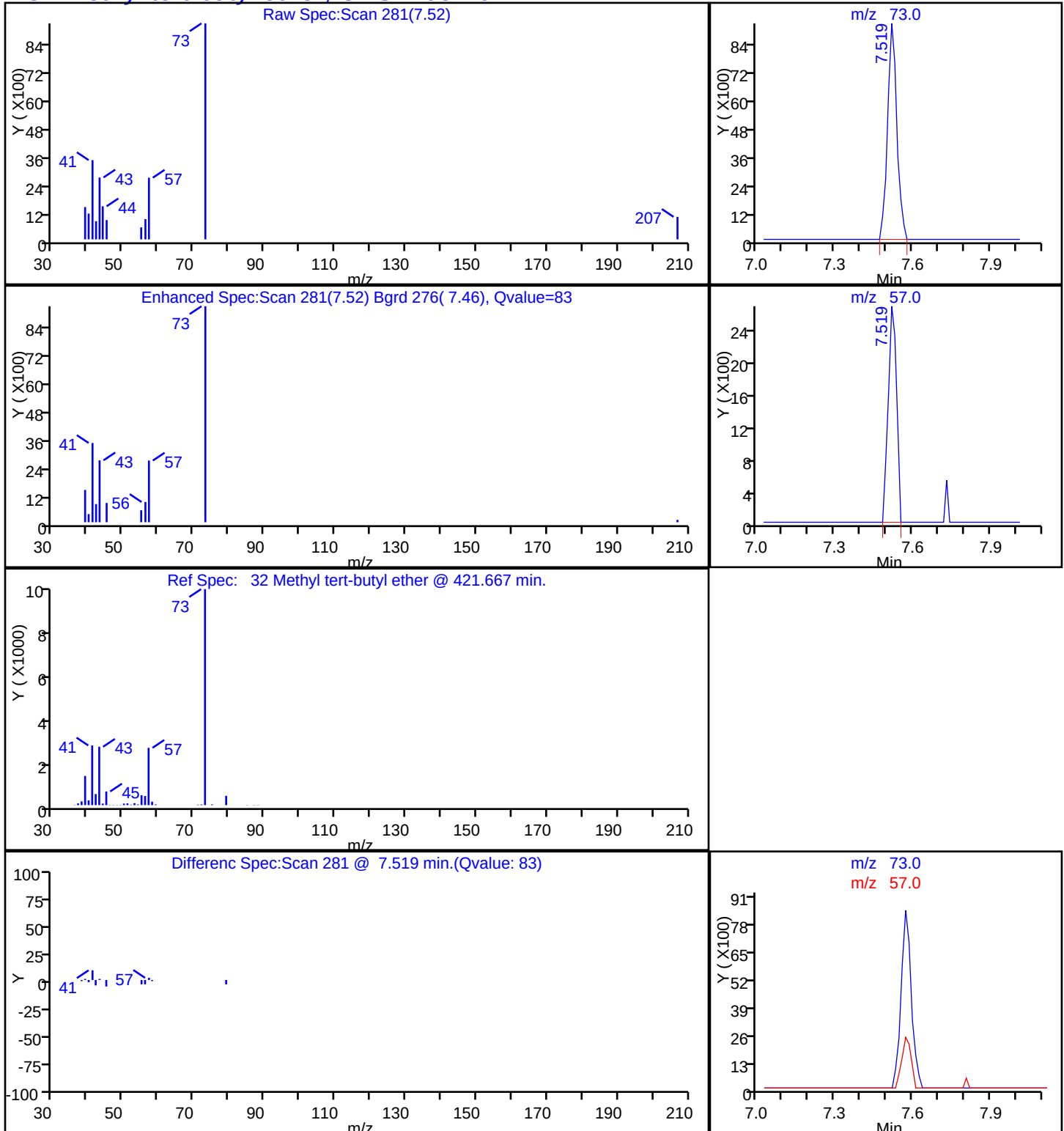
Dil. Factor: 2.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36824.D

Injection Date: 07-Feb-2014 14:12:30

Instrument ID: HP5973C

Lims ID: 480-54309-A-1

Lab Sample ID: 480-54309-1

Client ID: Well 1-1A INF

Operator ID: LH

ALS Bottle#: 94

Worklist Smp#: 9

Purge Vol: 5.000 mL

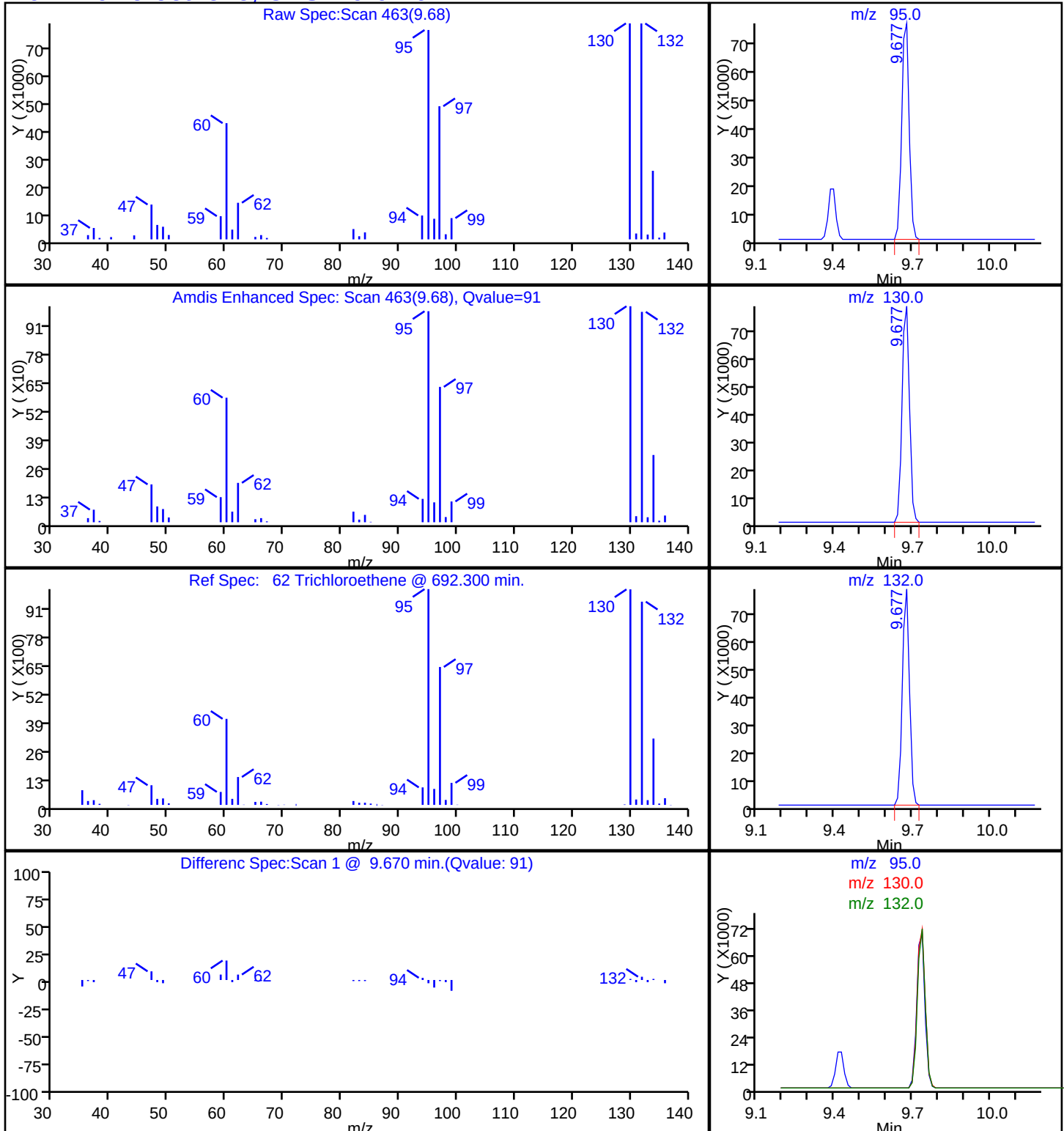
Dil. Factor: 2.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

62 Trichloroethene, CAS: 79-01-6

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36824.D

Injection Date: 07-Feb-2014 14:12:30

Instrument ID: HP5973C

Lims ID: 480-54309-A-1

Lab Sample ID: 480-54309-1

Client ID: Well 1-1A INF

Operator ID: LH

ALS Bottle#: 94

Worklist Smp#: 9

Purge Vol: 5.000 mL

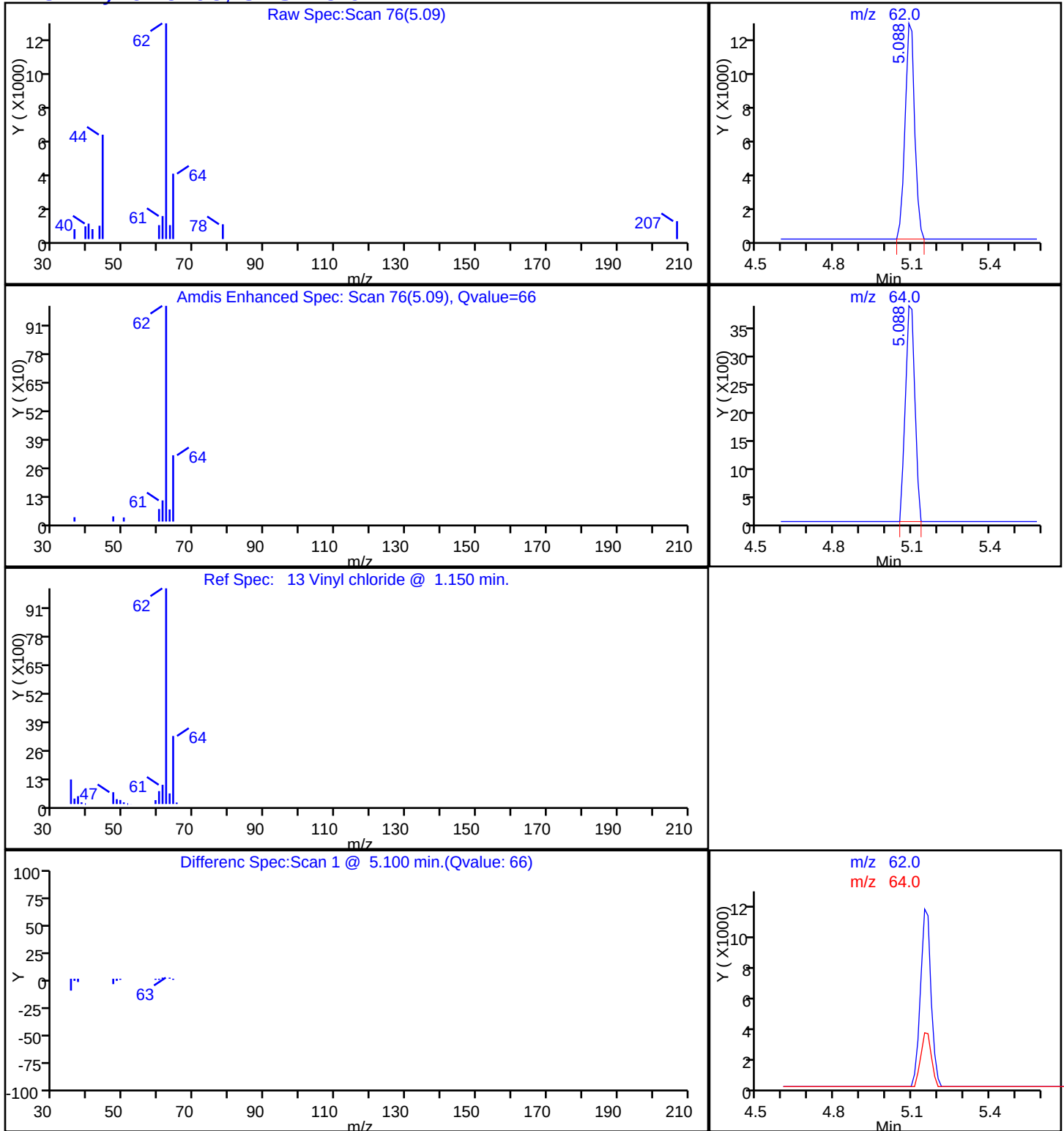
Dil. Factor: 2.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: Well 1-1A EFF Lab Sample ID: 480-54309-2

Matrix: Water Lab File ID: C36839.D

Analysis Method: 8260C Date Collected: 01/29/2014 16:35

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2014 01:20

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 165079 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.35
71-55-6	1,1,1-Trichloroethane	2.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	2.1		1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.41
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.89
591-78-6	2-Hexanone	5.0	U *	5.0	1.2
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	7.8		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: Well 1-1A EFF Lab Sample ID: 480-54309-2

Matrix: Water Lab File ID: C36839.D

Analysis Method: 8260C Date Collected: 01/29/2014 16:35

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2014 01:20

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 165079 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.75
1634-04-4	Methyl tert-butyl ether	1.7		1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
104-51-8	n-Butylbenzene	1.0	U	1.0	0.64
103-65-1	N-Propylbenzene	1.0	U	1.0	0.69
95-47-6	o-Xylene	1.0	U	1.0	0.76
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.75
100-42-5	Styrene	1.0	U	1.0	0.73
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.81
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.86
79-01-6	Trichloroethene	2.9		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.84
108-86-1	Bromobenzene	1.0	U	1.0	0.80
74-95-3	Dibromomethane	1.0	U	1.0	0.41
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.28
91-20-3	Naphthalene	1.0	U	1.0	0.43
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66
75-01-4	Vinyl chloride	1.0	U	1.0	0.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
SDG No.: _____
Client Sample ID: Well 1-1A EFF Lab Sample ID: 480-54309-2
Matrix: Water Lab File ID: C36839.D
Analysis Method: 8260C Date Collected: 01/29/2014 16:35
Sample wt/vol: 5(mL) Date Analyzed: 02/08/2014 01:20
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 165079 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		66-137
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
2037-26-5	Toluene-d8 (Surr)	110		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36839.D
 Lims ID: 480-54309-B-2 Lab Sample ID: 480-54309-2
 Client ID: Well 1-1A EFF
 Sample Type: Client
 Inject. Date: 08-Feb-2014 01:20:30 ALS Bottle#: 1 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-54309-B-2
 Misc. Info.: 480-0029375-007
 Operator ID: RAL Instrument ID: HP5973C
 Method: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Feb-2014 15:05:09 Calib Date: 03-Feb-2014 23:32:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973C\20140203-29245.b\C36656.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: HillL

Date: 10-Feb-2014 14:19:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.381	9.381	0.0	98	462779	25.0	
* 2 Chlorobenzene-d5	82	11.800	11.788	0.012	88	200961	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.816	13.804	0.012	96	191539	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.167	9.167	0.0	0	76819	28.7	
\$ 5 Toluene-d8 (Surr)	98	10.602	10.602	0.0	95	395169	27.6	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	85	117491	27.4	
10 Dichlorodifluoromethane	85		4.460					
12 Chloromethane	50		4.851					
13 Vinyl chloride	62		5.088					
14 Bromomethane	94		5.693					
15 Chloroethane	64		5.835					
17 Trichlorofluoromethane	101		6.179					
22 1,1-Dichloroethene	96		6.819					
23 Acetone	43		6.879					
26 Carbon disulfide	76		7.140					
30 Methylene Chloride	84		7.341					
32 Methyl tert-butyl ether	73	7.519	7.519	0.0	85	38603	1.69	
34 trans-1,2-Dichloroethene	96		7.578					
39 1,1-Dichloroethane	63	7.982	7.981	0.001	70	34233	2.08	
43 2-Butanone (MEK)	43		8.444					
44 2,2-Dichloropropane	77		8.468					
45 cis-1,2-Dichloroethene	96	8.480	8.480	0.0	69	66047	7.79	
50 Chloroform	83		8.717					
51 1,1,1-Trichloroethane	97	8.895	8.895	0.0	75	35722	2.94	
54 1,1-Dichloropropene	75		9.001					
55 Carbon tetrachloride	117		9.025					
57 Benzene	78		9.191					
58 1,2-Dichloroethane	62		9.215					
1 1,4-Difluorobenzene	114		9.417					
62 Trichloroethene	95	9.677	9.665	0.012	83	22213	2.93	
64 Methylcyclohexane	83		9.808					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		9.879					
67 Dibromomethane	93		10.009					
68 Dichlorobromomethane	83		10.080					
72 cis-1,3-Dichloropropene	75		10.401					
73 4-Methyl-2-pentanone (MIBK)	43		10.436					
74 Toluene	92		10.662					
77 trans-1,3-Dichloropropene	75		10.816					
79 1,1,2-Trichloroethane	83		10.994					
80 2-Hexanone	43		11.077					
81 Tetrachloroethene	166		11.112					
82 1,3-Dichloropropane	76		11.136					
83 Chlorodibromomethane	129		11.361					
84 Ethylene Dibromide	107		11.492					
87 Chlorobenzene	112		11.824					
88 Ethylbenzene	91		11.824					
89 1,1,1,2-Tetrachloroethane	131		11.859					
90 m-Xylene & p-Xylene	106		11.895					
91 o-Xylene	106		12.251					
92 Styrene	104		12.262					
94 Isopropylbenzene	105		12.523					
95 Bromoform	173		12.547					
97 1,1,2,2-Tetrachloroethane	83		12.820					
99 N-Propylbenzene	91		12.867					
100 1,2,3-Trichloropropane	110		12.903					
101 Bromobenzene	156		12.926					
102 1,3,5-Trimethylbenzene	105		12.986					
103 2-Chlorotoluene	126		13.045					
105 4-Chlorotoluene	126		13.128					
106 tert-Butylbenzene	134		13.318					
107 1,2,4-Trimethylbenzene	105		13.353					
109 sec-Butylbenzene	105		13.508					
110 4-Isopropyltoluene	119		13.614					
111 1,3-Dichlorobenzene	146		13.757					
113 1,4-Dichlorobenzene	146		13.840					
115 n-Butylbenzene	91		14.029					
116 1,2-Dichlorobenzene	146		14.255					
117 1,2-Dibromo-3-Chloropropane	75		15.144					
119 1,2,4-Trichlorobenzene	180		16.176					
120 Hexachlorobutadiene	225		16.271					
121 Naphthalene	128		16.614					
122 1,2,3-Trichlorobenzene	180		16.982					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36839.D

Injection Date: 08-Feb-2014 01:20:30

Instrument ID: HP5973C

Operator ID: RAL

Lims ID: 480-54309-B-2

Lab Sample ID: 480-54309-2

Worklist Smp#: 7

Client ID: Well 1-1A EFF

Purge Vol: 5.000 mL

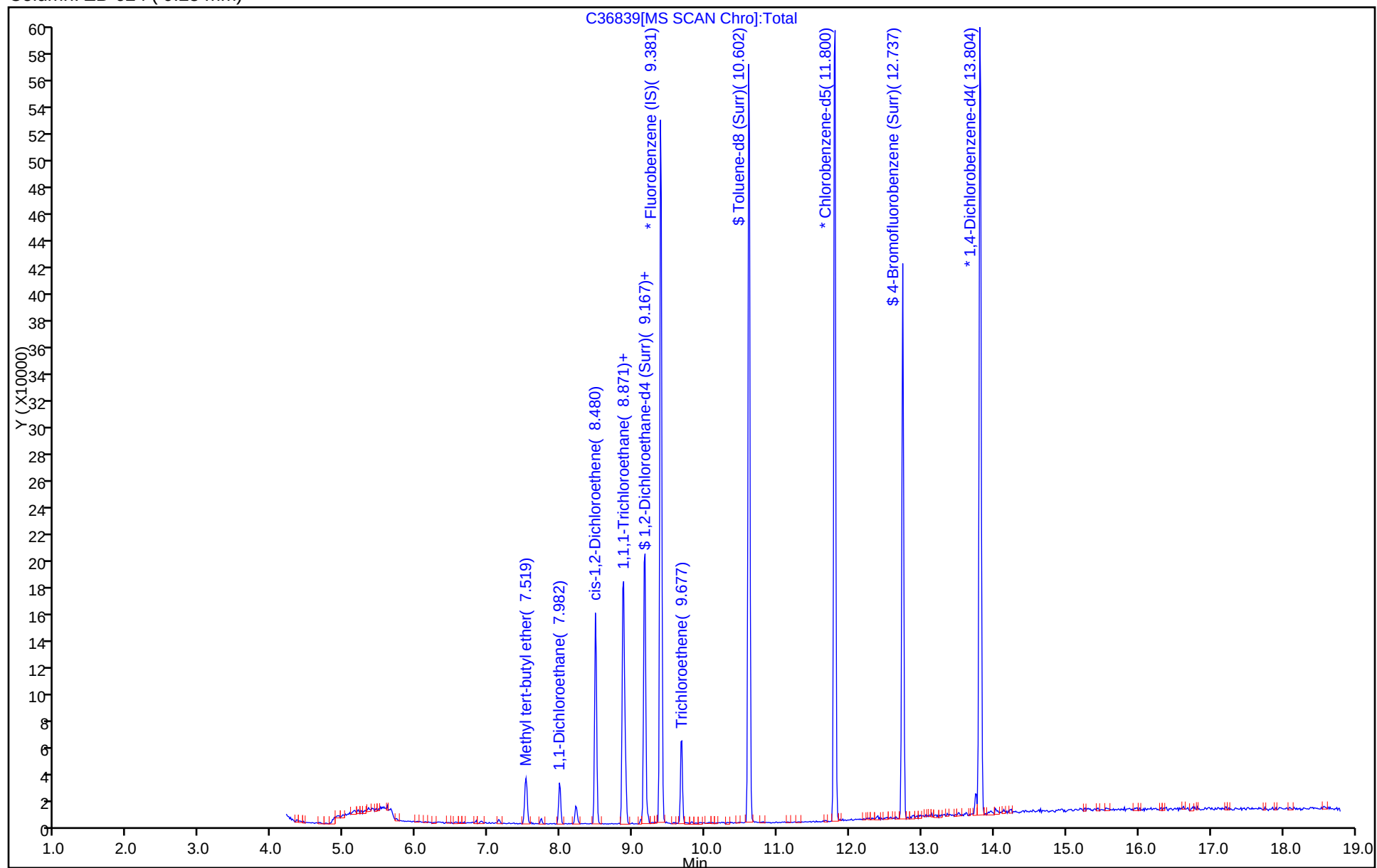
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36839.D

Injection Date: 08-Feb-2014 01:20:30

Instrument ID: HP5973C

Lims ID: 480-54309-B-2

Lab Sample ID: 480-54309-2

Client ID: Well 1-1A EFF

Operator ID: RAL

ALS Bottle#: 1

Worklist Smp#: 7

Purge Vol: 5.000 mL

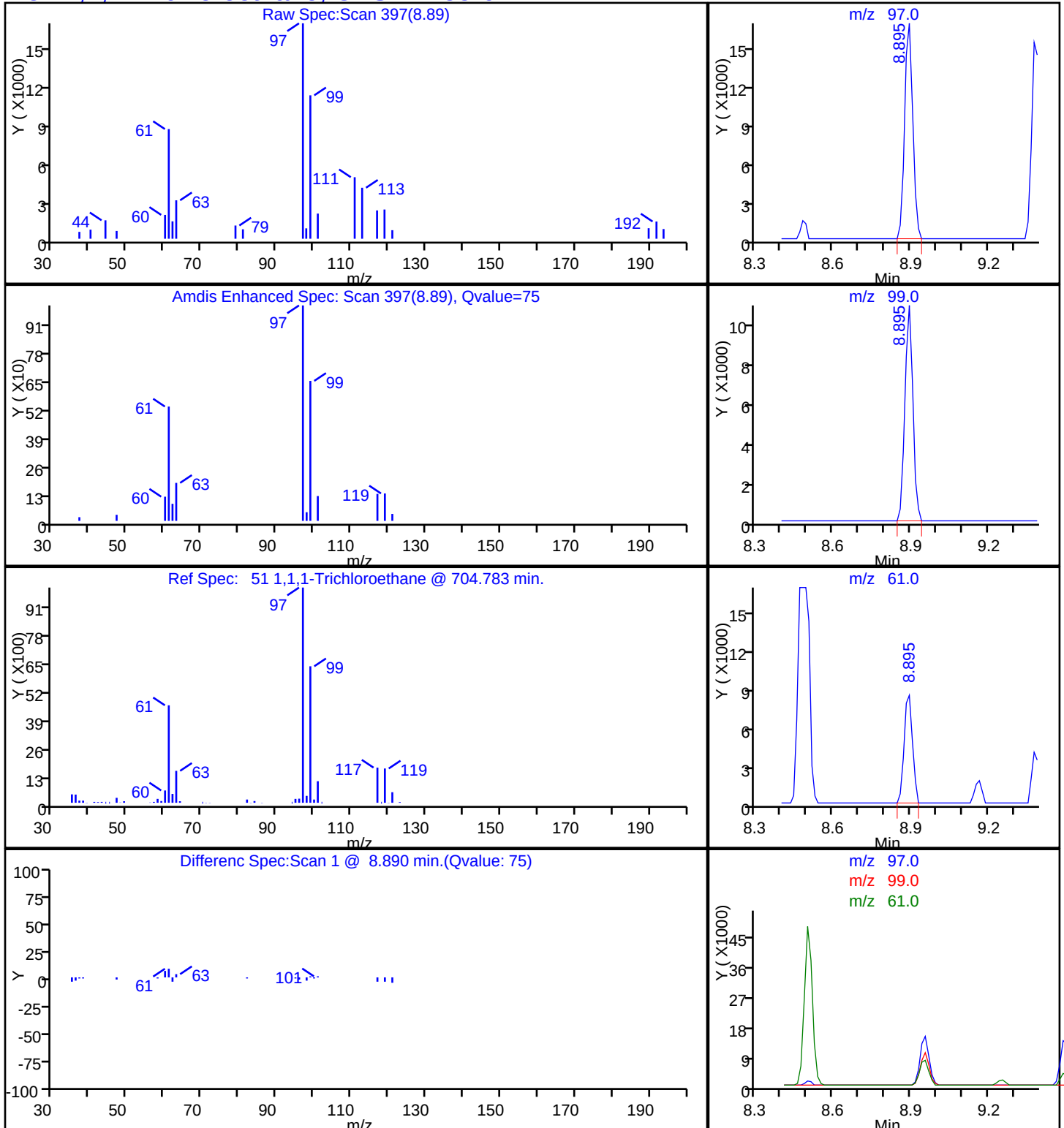
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36839.D

Injection Date: 08-Feb-2014 01:20:30

Instrument ID: HP5973C

Lims ID: 480-54309-B-2

Lab Sample ID: 480-54309-2

Client ID: Well 1-1A EFF

Operator ID: RAL

ALS Bottle#: 1

Worklist Smp#: 7

Purge Vol: 5.000 mL

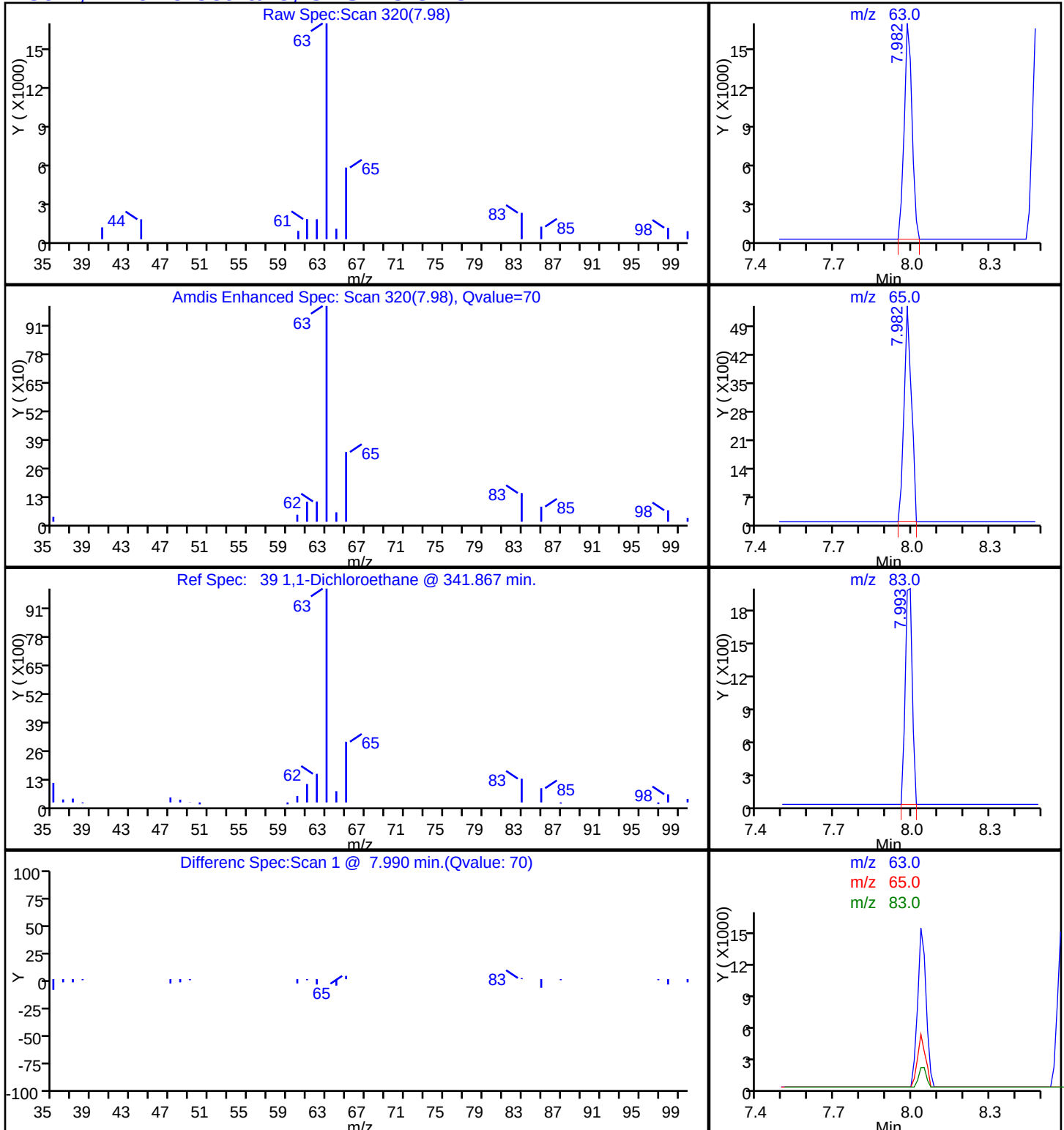
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36839.D

Injection Date: 08-Feb-2014 01:20:30

Instrument ID: HP5973C

Lims ID: 480-54309-B-2

Lab Sample ID: 480-54309-2

Client ID: Well 1-1A EFF

Operator ID: RAL

ALS Bottle#: 1

Worklist Smp#: 7

Purge Vol: 5.000 mL

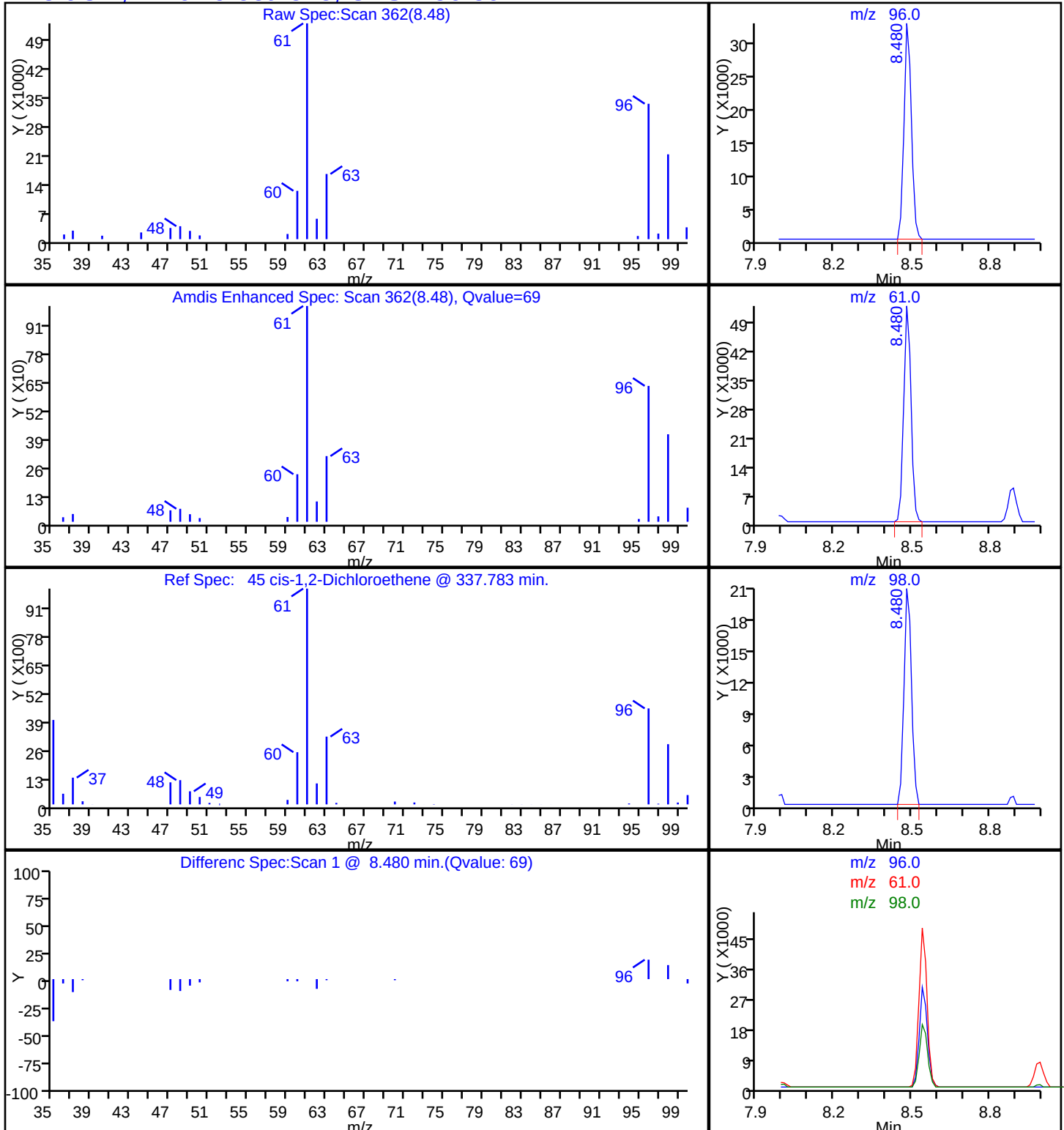
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973C\\20140207-29375.b\\C36839.D

Injection Date: 08-Feb-2014 01:20:30

Instrument ID: HP5973C

Lims ID: 480-54309-B-2

Lab Sample ID: 480-54309-2

Client ID: Well 1-1A EFF

Operator ID: RAL

ALS Bottle#: 1

Worklist Smp#: 7

Purge Vol: 5.000 mL

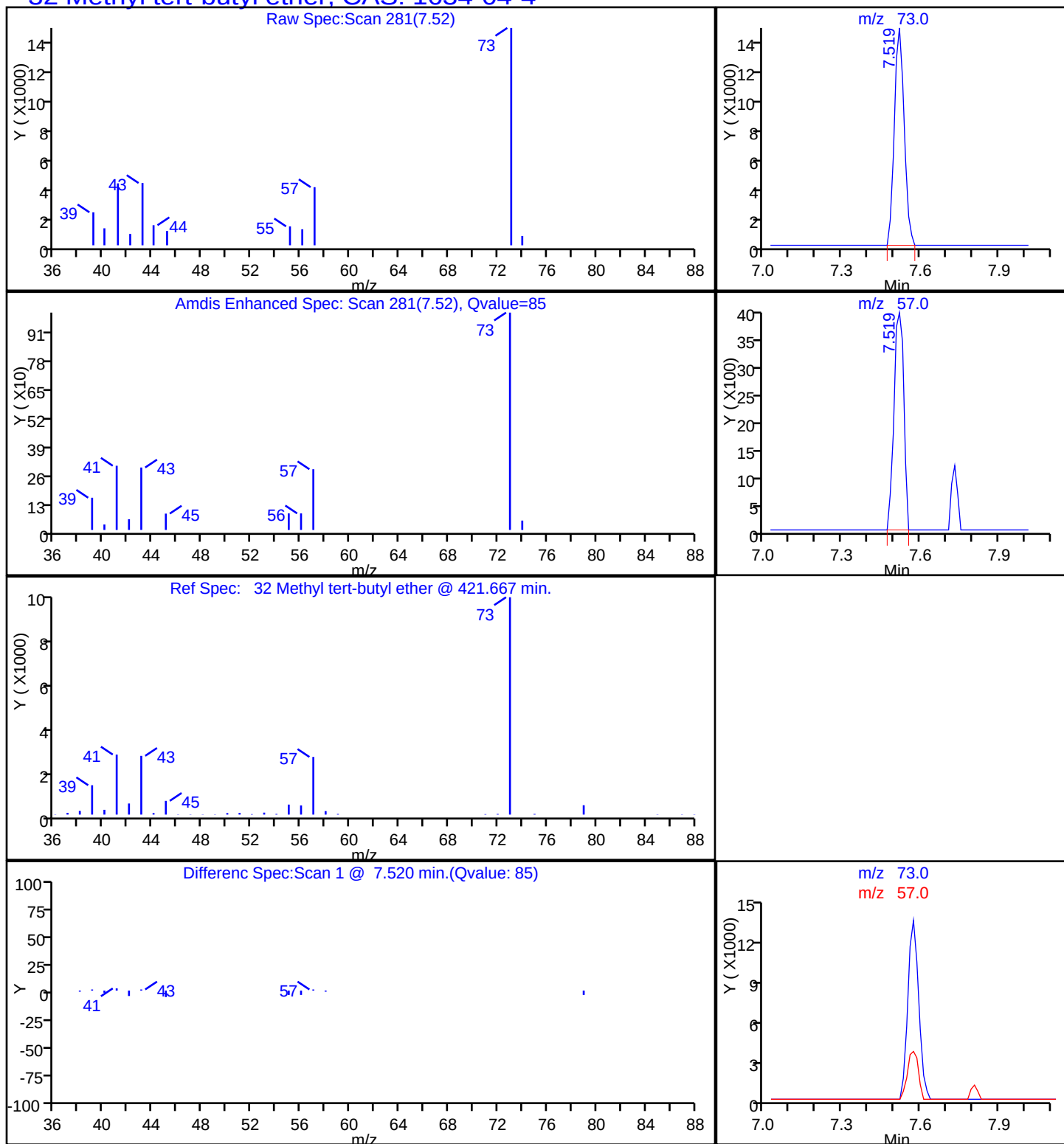
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36839.D

Injection Date: 08-Feb-2014 01:20:30

Instrument ID: HP5973C

Lims ID: 480-54309-B-2

Lab Sample ID: 480-54309-2

Client ID: Well 1-1A EFF

Operator ID: RAL

ALS Bottle#: 1

Worklist Smp#: 7

Purge Vol: 5.000 mL

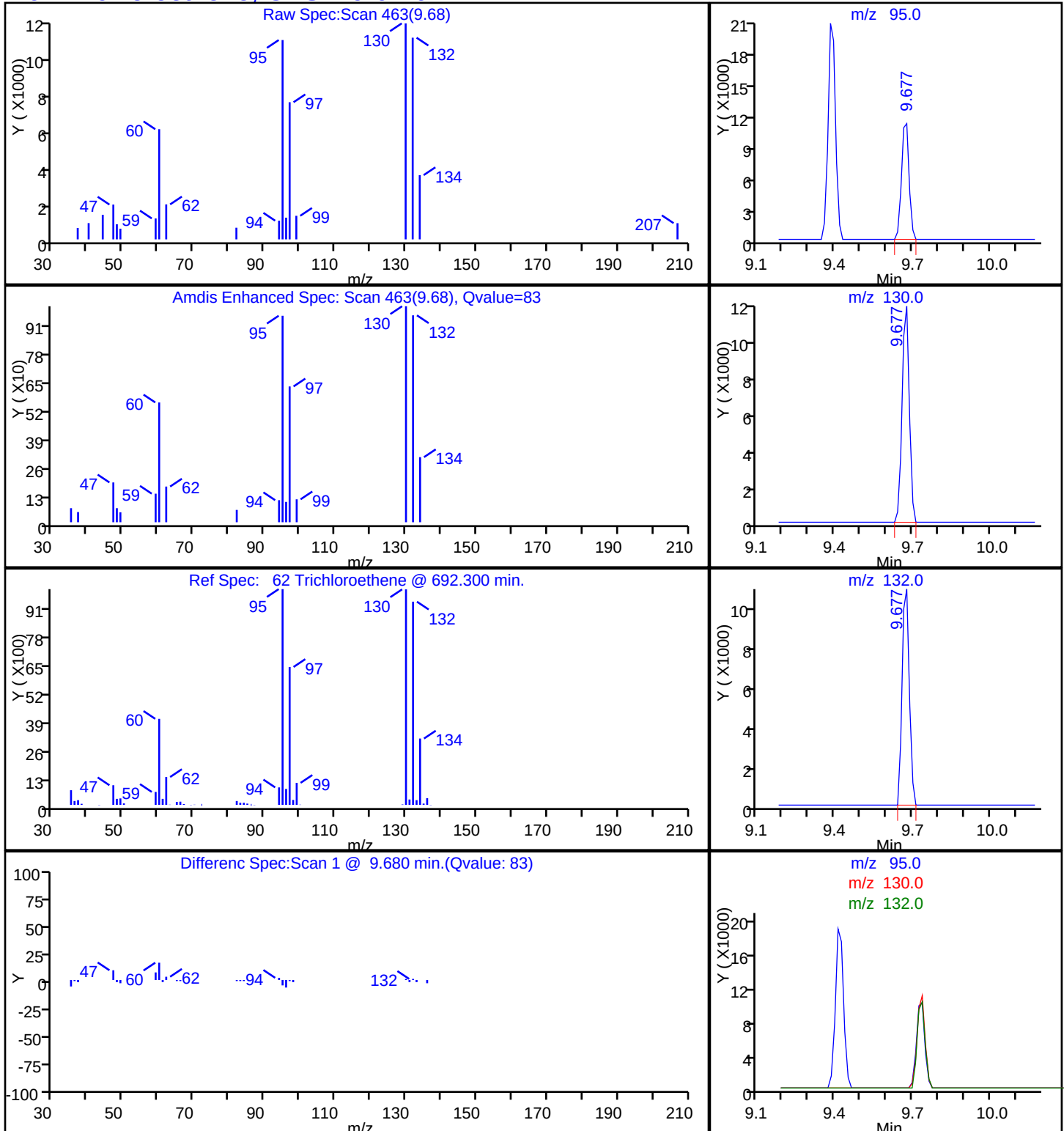
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

62 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: Trip Blank Lab Sample ID: 480-54309-3

Matrix: Water Lab File ID: C36826.D

Analysis Method: 8260C Date Collected: 01/29/2014 00:00

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 19:27

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 164965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.35
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.41
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.89
591-78-6	2-Hexanone	5.0	U *	5.0	1.2
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: Trip Blank Lab Sample ID: 480-54309-3

Matrix: Water Lab File ID: C36826.D

Analysis Method: 8260C Date Collected: 01/29/2014 00:00

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 19:27

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 164965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.75
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
104-51-8	n-Butylbenzene	1.0	U	1.0	0.64
103-65-1	N-Propylbenzene	1.0	U	1.0	0.69
95-47-6	o-Xylene	1.0	U	1.0	0.76
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.75
100-42-5	Styrene	1.0	U	1.0	0.73
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.81
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.86
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.84
108-86-1	Bromobenzene	1.0	U	1.0	0.80
74-95-3	Dibromomethane	1.0	U	1.0	0.41
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.28
91-20-3	Naphthalene	1.0	U	1.0	0.43
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66
75-01-4	Vinyl chloride	1.0	U	1.0	0.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
SDG No.: _____
Client Sample ID: Trip Blank Lab Sample ID: 480-54309-3
Matrix: Water Lab File ID: C36826.D
Analysis Method: 8260C Date Collected: 01/29/2014 00:00
Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 19:27
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 164965 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		66-137
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
2037-26-5	Toluene-d8 (Surr)	111		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36826.D
 Lims ID: 480-54309-A-3 Lab Sample ID: 480-54309-3
 Client ID: Trip Blank
 Sample Type: Client
 Inject. Date: 07-Feb-2014 19:27:30 ALS Bottle#: 96 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-54309-A-3
 Misc. Info.: 480-0029361-011
 Operator ID: RAL Instrument ID: HP5973C
 Method: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 07-Feb-2014 22:22:14 Calib Date: 03-Feb-2014 23:32:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973C\20140203-29245.b\C36656.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: larsonr

Date: 07-Feb-2014 20:12:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.393	9.381	0.012	98	454252	25.0	
* 2 Chlorobenzene-d5	82	11.800	11.788	0.012	89	195637	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.816	13.804	0.012	96	181235	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.168	9.156	0.012	0	74956	28.6	
\$ 5 Toluene-d8 (Surr)	98	10.614	10.602	0.012	95	387336	27.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	85	115102	27.6	
10 Dichlorodifluoromethane	85		4.471					
12 Chloromethane	50		4.863					
13 Vinyl chloride	62		5.100					
14 Bromomethane	94		5.705					
15 Chloroethane	64		5.835					
17 Trichlorofluoromethane	101		6.191					
22 1,1-Dichloroethene	96		6.819					
23 Acetone	43	6.903	6.890	0.013	72	7812	2.72	
26 Carbon disulfide	76		7.151					
30 Methylene Chloride	84		7.353					
32 Methyl tert-butyl ether	73		7.519					
34 trans-1,2-Dichloroethene	96		7.590					
39 1,1-Dichloroethane	63		7.981					
43 2-Butanone (MEK)	43		8.444					
44 2,2-Dichloropropane	77		8.479					
45 cis-1,2-Dichloroethene	96		8.479					
50 Chloroform	83		8.717					
51 1,1,1-Trichloroethane	97		8.895					
54 1,1-Dichloropropene	75		9.001					
55 Carbon tetrachloride	117		9.025					
57 Benzene	78		9.203					
58 1,2-Dichloroethane	62		9.227					
1 1,4-Difluorobenzene	114		9.417					
62 Trichloroethene	95		9.665					
64 Methylcyclohexane	83		9.808					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		9.879					
67 Dibromomethane	93		10.021					
68 Dichlorobromomethane	83		10.080					
72 cis-1,3-Dichloropropene	75		10.401					
73 4-Methyl-2-pentanone (MIBK)	43		10.436					
74 Toluene	92		10.661					
77 trans-1,3-Dichloropropene	75		10.816					
79 1,1,2-Trichloroethane	83		10.993					
80 2-Hexanone	43		11.076					
81 Tetrachloroethene	166		11.112					
82 1,3-Dichloropropane	76		11.136					
83 Chlorodibromomethane	129		11.361					
84 Ethylene Dibromide	107		11.492					
87 Chlorobenzene	112		11.824					
88 Ethylbenzene	91		11.824					
89 1,1,1,2-Tetrachloroethane	131		11.859					
90 m-Xylene & p-Xylene	106		11.907					
91 o-Xylene	106		12.250					
92 Styrene	104		12.262					
94 Isopropylbenzene	105		12.523					
95 Bromoform	173		12.547					
97 1,1,2,2-Tetrachloroethane	83		12.820					
99 N-Propylbenzene	91		12.867					
100 1,2,3-Trichloropropane	110		12.903					
101 Bromobenzene	156		12.926					
102 1,3,5-Trimethylbenzene	105		12.986					
103 2-Chlorotoluene	126		13.045					
105 4-Chlorotoluene	126		13.128					
106 tert-Butylbenzene	134		13.318					
107 1,2,4-Trimethylbenzene	105		13.353					
109 sec-Butylbenzene	105		13.519					
110 4-Isopropyltoluene	119		13.614					
111 1,3-Dichlorobenzene	146		13.757					
113 1,4-Dichlorobenzene	146		13.840					
115 n-Butylbenzene	91		14.029					
116 1,2-Dichlorobenzene	146		14.255					
117 1,2-Dibromo-3-Chloropropane	75		15.144					
119 1,2,4-Trichlorobenzene	180		16.176					
120 Hexachlorobutadiene	225		16.271					
121 Naphthalene	128		16.614					
122 1,2,3-Trichlorobenzene	180		16.982					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36826.D

Injection Date: 07-Feb-2014 19:27:30

Instrument ID: HP5973C

Operator ID: RAL

Lims ID: 480-54309-A-3

Lab Sample ID: 480-54309-3

Worklist Smp#: 11

Client ID: Trip Blank

Purge Vol: 5.000 mL

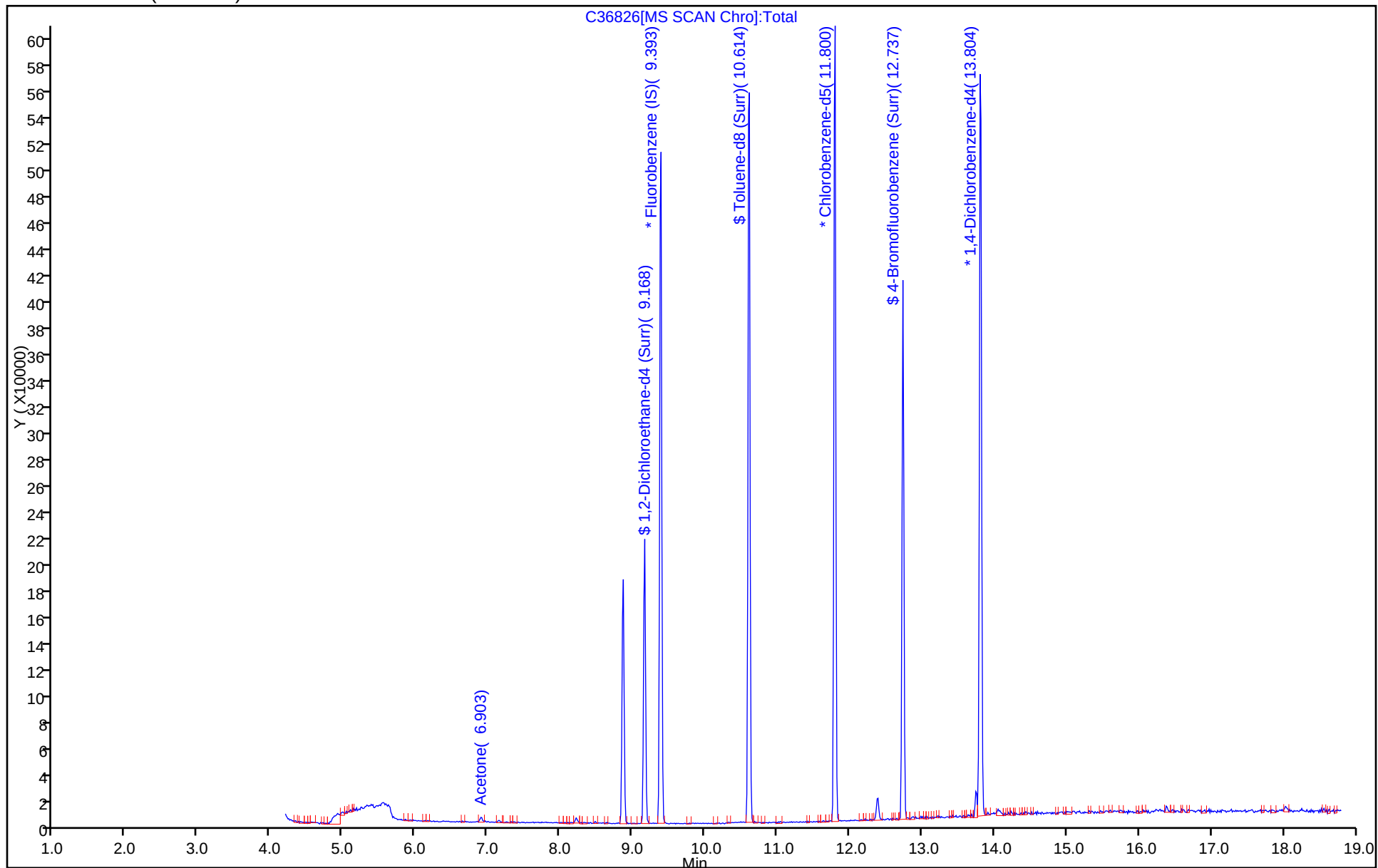
Dil. Factor: 1.0000

ALS Bottle#: 96

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1 Analy Batch No.: 164151

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/01/2014 01:53 Calibration End Date: 02/01/2014 04:24 Calibration ID: 17365

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-164151/5	C36632.D
Level 2	IC 480-164151/7	C36633.D
Level 3	IC 480-164151/8	C36634.D
Level 4	IC 480-164151/9	C36635.D
Level 5	ICIS 480-164151/10	C36636.D
Level 6	IC 480-164151/11	C36637.D
Level 7	IC 480-164151/12	C36638.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 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	++++ 0.4653	0.4070 0.4617	0.5109	0.4753	0.4776	Ave		0.4663			0.1000	7.3		20.0			
Chloromethane	++++ 0.6655	0.7883 0.6525	0.7464	0.6948	0.6780	Ave		0.7043			0.1000	7.5		20.0			
Vinyl chloride	0.5859 0.6008	0.6327 0.5882	0.6344	0.6067	0.5978	Ave		0.6067			0.1000	3.2		20.0			
Butadiene	++++ 0.6227	0.6576 0.6047	0.6935	0.6672	0.6485	Ave		0.6490				4.9		20.0			
Bromomethane	++++ 0.3387	0.3908 0.3440	0.3634	0.3448	0.3421	Ave		0.3540			0.1000	5.7		20.0			
Chloroethane	++++ 0.3571	0.3722 0.3549	0.3755	0.3650	0.3591	Ave		0.3640			0.1000	2.3		20.0			
Dichlorofluoromethane	++++ 0.8929	0.9622 0.8942	0.9391	0.9114	0.8936	Ave		0.9156				3.2		20.0			
Trichlorofluoromethane	++++ 0.6905	0.6104 0.6791	0.7277	0.6918	0.6808	Ave		0.6800			0.1000	5.6		20.0			
Ethyl ether	++++ 0.4355	0.4111 0.4351	0.4084	0.4085	0.4260	Ave		0.4208				3.1		20.0			
Acrolein	++++ 0.0835	0.0617 0.0840	0.0714	0.0760	0.0788	Ave		0.0759				11.0		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 0.4255	0.4167 0.4331	0.4246	0.4164	0.4254	Ave		0.4236			0.1000	1.5		20.0			
1,1-Dichloroethene	++++ 0.3877	0.3879 0.3886	0.3714	0.3755	0.3832	Ave		0.3824			0.1000	1.9		20.0			
Acetone	++++ 0.1608	0.1758 0.1595	0.1406	0.1540	0.1563	Ave		0.1578			0.1000	7.2		20.0			
Iodomethane	++++ 0.7015	0.7249 0.7080	0.6897	0.6867	0.6905	Ave		0.7002				2.1		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1 Analy Batch No.: 164151

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/01/2014 01:53 Calibration End Date: 02/01/2014 04:24 Calibration ID: 17365

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 4	LVL 5		B	M1	M2								
Carbon disulfide	+++++ 1.4320	1.4863 1.4472	1.3793	1.3947	1.4212	Ave		1.4268			0.1000	2.7		20.0			
Methyl acetate	+++++ 0.4145	0.3672 0.4060	0.3826	0.3932	0.4014	Ave		0.3941			0.1000	4.3		20.0			
Allyl chloride	+++++ 0.8711	0.8245 0.8707	0.8348	0.8367	0.8483	Ave		0.8477				2.3		20.0			
Methylene Chloride	+++++ 0.4460	0.5497 0.4350	0.4456	0.4378	0.4415	Ave		0.4593			0.1000	9.7		20.0			
2-Methyl-2-propanol	+++++ 0.0680	0.0592 0.0674	0.0573	0.0621	0.0629	Ave		0.0628				6.8		20.0			
Methyl tert-butyl ether	+++++ 1.2757	1.2138 1.2912	1.1973	1.1964	1.2234	Ave		1.2330			0.1000	3.3		20.0			
trans-1,2-Dichloroethene	+++++ 0.4230	0.4620 0.4173	0.4181	0.4109	0.4160	Ave		0.4245			0.1000	4.4		20.0			
Acrylonitrile	+++++ 0.2076	0.1911 0.2018	0.1973	0.1978	0.2006	Ave		0.1994				2.7		20.0			
Hexane	+++++ 0.7170	0.7704 0.7318	0.7205	0.7157	0.7439	Ave		0.7332				2.9		20.0			
Vinyl acetate	+++++ 1.0375	0.9037 1.0553	0.8930	0.9328	0.9788	Ave		0.9669				7.1		20.0			
1,1-Dichloroethane	+++++ 0.8734	0.9635 0.8707	0.8705	0.8725	0.8734	Ave		0.8873			0.2000	4.2		20.0			
2-Butanone (MEK)	+++++ 0.2483	0.1993 0.2481	0.2128	0.2287	0.2343	Ave		0.2286			0.1000	8.6		20.0			
2,2-Dichloropropane	+++++ 0.6304	0.6838 0.6385	0.6198	0.6176	0.6254	Ave		0.6359				3.9		20.0			
cis-1,2-Dichloroethene	+++++ 0.4509	0.4982 0.4554	0.4464	0.4439	0.4540	Ave		0.4581			0.1000	4.4		20.0			
Chlorobromomethane	+++++ 0.2306	0.2329 0.2317	0.2296	0.2289	0.2310	Ave		0.2308				0.6		20.0			
Tetrahydrofuran	+++++ 0.1708	0.2310 0.1686	0.1683	0.1643	0.1633	Ave		0.1777				15.0		20.0			
Chloroform	+++++ 0.7371	0.8285 0.7387	0.7441	0.7390	0.7414	Ave		0.7548			0.2000	4.8		20.0			
1,1,1-Trichloroethane	+++++ 0.6530	0.7096 0.6614	0.6298	0.6242	0.6543	Ave		0.6554			0.1000	4.6		20.0			
Cyclohexane	+++++ 0.9987	0.9981 1.0111	0.9363	0.9754	1.0119	Ave		0.9886			0.1000	2.9		20.0			
Isobutyl alcohol	+++++ 0.0323	0.0269 0.0342	0.0258	0.0270	0.0307	Ave		0.0295				12.0		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1 Analy Batch No.: 164151

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/01/2014 01:53 Calibration End Date: 02/01/2014 04:24 Calibration ID: 17365

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 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	++++ 0.5459	0.5760 0.5488	0.5357	0.5236	0.5418	Ave		0.5453				3.2		20.0			
Carbon tetrachloride	++++ 0.5889	0.6123 0.6010	0.5821	0.5801	0.5802	Ave		0.5908			0.1000	2.2		20.0			
Benzene	++++ 1.5987	1.7904 1.6028	1.6363	1.6112	1.6033	Ave		1.6405			0.5000	4.6		20.0			
n-Heptane	++++ 0.7118	0.7741 0.7280	0.7259	0.7415	0.7521	Ave		0.7389				3.0		20.0			
1,2-Dichloroethane	++++ 0.6940	0.7389 0.6930	0.6920	0.6855	0.6881	Ave		0.6986			0.1000	2.9		20.0			
Trichloroethene	++++ 0.4089	0.4138 0.4148	0.4044	0.4072	0.4098	Ave		0.4098			0.2000	1.0		20.0			
Methylcyclohexane	++++ 0.6956	0.6696 0.7135	0.6670	0.6659	0.7027	Ave		0.6857			0.1000	3.0		20.0			
1,2-Dichloropropane	++++ 0.4797	0.4628 0.4850	0.4769	0.4697	0.4749	Ave		0.4748			0.1000	1.6		20.0			
1,4-Dioxane	++++ 0.0128	0.0060 0.0126	0.0088	0.0117	0.0118	Lin1	-0.175	0.0126							0.9990		0.9900
Dibromomethane	++++ 0.2644	0.2633 0.2648	0.2532	0.2590	0.2585	Ave		0.2605			0.1000	1.7		20.0			
Bromodichloromethane	++++ 0.5673	0.5597 0.5819	0.5338	0.5325	0.5499	Ave		0.5542			0.2000	3.5		20.0			
2-Chloroethyl vinyl ether	++++ 0.2977	0.2220 0.3089	0.2414	0.2599	0.2805	Ave		0.2684				12.0		20.0			
cis-1,3-Dichloropropene	0.4776 0.6493	0.5794 0.6714	0.5749	0.6093	0.6325	Ave		0.5992			0.2000	11.0		20.0			
4-Methyl-2-pentanone (MIBK)	++++ 1.2522	1.0984 1.2685	1.1040	1.1855	1.2321	Ave		1.1901			0.1000	6.2		20.0			
Toluene	++++ 2.2454	2.4317 2.2996	2.2925	2.2647	2.3150	Ave		2.3082			0.4000	2.8		20.0			
Ethyl methacrylate	++++ 1.1837	0.8305 1.2562	0.9557	1.0451	1.1315	Ave		1.0671				15.0		20.0			
trans-1,3-Dichloropropene	0.9987 1.3243	1.1981 1.3688	1.1432	1.2586	1.3225	Ave		1.2306			0.1000	10.0		20.0			
1,1,2-Trichloroethane	++++ 0.6900	0.6812 0.7095	0.6879	0.7179	0.7073	Ave		0.6990			0.1000	2.1		20.0			
2-Hexanone	++++ 0.8550	0.6827 0.8633	0.7218	0.8013	0.8269	Ave		0.7918			0.1000	9.3		20.0			
Tetrachloroethene	++++ 0.9762	1.0862 1.0051	0.9951	1.0156	1.0169	Ave		1.0159			0.2000	3.7		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1 Analy Batch No.: 164151

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/01/2014 01:53 Calibration End Date: 02/01/2014 04:24 Calibration ID: 17365

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 4	LVL 5		B	M1	M2								
1,3-Dichloropropane	+++++ 1.4627	1.4349 1.4833	1.4513	1.5065	1.4822	Ave		1.4702				1.7		20.0			
Dibromochloromethane	+++++ 1.0102	0.8804 1.0489	0.8936	0.9535	0.9930	Ave		0.9633			0.1000	6.9		20.0			
1,2-Dibromoethane	+++++ 0.8353	0.8889 0.8565	0.8094	0.8170	0.8345	Ave		0.8403				3.4		20.0			
Chlorobenzene	+++++ 2.5307	2.7417 2.5751	2.5275	2.5830	2.5877	Ave		2.5910			0.5000	3.0		20.0			
Ethylbenzene	+++++ 4.3510	4.6135 4.4739	4.2844	4.2970	4.4191	Ave		4.4065			0.1000	2.8		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.9420	0.9996 0.9699	0.9185	0.9281	0.9497	Ave		0.9513				3.1		20.0			
m,p-Xylene	+++++ 1.6914	1.6683 1.7270	1.6218	1.6906	1.7123	Ave		1.6852			0.1000	2.2		20.0			
o-Xylene	+++++ 1.6415	1.4951 1.6954	1.5399	1.6188	1.6700	Ave		1.6101			0.3000	4.8		20.0			
Styrene	+++++ 2.7364	2.3856 2.8338	2.3590	2.5356	2.7100	Ave		2.5934			0.3000	7.6		20.0			
Isopropylbenzene	+++++ 4.5761	4.2830 4.6990	4.2795	4.4203	4.6375	Ave		4.4826			0.1000	4.0		20.0			
Bromoform	+++++ 0.6381	0.5345 0.6765	0.5258	0.5897	0.6109	Ave		0.5959			0.1000	9.8		20.0			
1,1,2,2-Tetrachloroethane	+++++ 1.2094	1.2765 1.2072	1.1269	1.1885	1.2078	Ave		1.2027			0.3000	4.0		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.3485	0.0738 0.3888	0.2129	0.2342	0.3039	Lin	-1.347	0.3951							0.9970		0.9900
N-Propylbenzene	+++++ 5.5184	5.3732 5.6039	5.1930	5.3316	5.5241	Ave		5.4240				2.8		20.0			
1,2,3-Trichloropropane	+++++ 0.3745	0.3222 0.3779	0.3542	0.3652	0.3712	Ave		0.3609				5.7		20.0			
Bromobenzene	+++++ 1.1485	1.1406 1.1473	1.1049	1.1496	1.1648	Ave		1.1426				1.8		20.0			
1,3,5-Trimethylbenzene	+++++ 3.9105	3.5858 4.0032	3.5800	3.6668	3.8735	Ave		3.7700				4.8		20.0			
2-Chlorotoluene	+++++ 1.0883	1.1941 1.1011	1.0689	1.0776	1.0843	Ave		1.1024				4.2		20.0			
4-Chlorotoluene	+++++ 1.1116	1.1279 1.1182	1.0759	1.1080	1.1286	Ave		1.1117				1.7		20.0			
tert-Butylbenzene	+++++ 0.8149	0.7768 0.8398	0.7219	0.7717	0.8139	Ave		0.7899				5.3		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1 Analy Batch No.: 164151

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/01/2014 01:53 Calibration End Date: 02/01/2014 04:24 Calibration ID: 17365

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 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	++++ 4.0812	3.7248 4.1440	3.7644	3.9411	4.1024	Ave		3.9597				4.6		20.0			
sec-Butylbenzene	++++ 4.9207	4.5293 5.0252	4.5100	4.7124	4.9272	Ave		4.7708				4.6		20.0			
p-Isopropyltoluene	++++ 4.2470	3.7815 4.3269	3.8275	3.9889	4.1866	Ave		4.0597				5.6		20.0			
1,3-Dichlorobenzene	++++ 2.2065	2.4334 2.2158	2.2401	2.2365	2.2330	Ave		2.2609			0.6000	3.8		20.0			
1,4-Dichlorobenzene	++++ 2.2544	2.5731 2.2635	2.2688	2.3347	2.2960	Ave		2.3317			0.5000	5.2		20.0			
n-Butylbenzene	++++ 3.8690	3.7024 3.9598	3.5476	3.6928	3.8846	Ave		3.7760				4.1		20.0			
1,2-Dichlorobenzene	++++ 2.1818	2.2517 2.1808	2.1658	2.1907	2.2279	Ave		2.1998			0.4000	1.5		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.2450	0.2392 0.2516	0.2226	0.2309	0.2319	Ave		0.2369			0.0500	4.4		20.0			
1,2,4-Trichlorobenzene	++++ 1.6651	1.7063 1.6886	1.6175	1.6134	1.6557	Ave		1.6578			0.2000	2.2		20.0			
Hexachlorobutadiene	0.4850 0.6852	0.6398 0.7028	0.6822	0.6772	0.6814	Ave		0.6505				12.0		20.0			
Naphthalene	++++ 4.2797	3.6150 4.3204	3.4989	3.8209	4.0668	Ave		3.9336				8.7		20.0			
1,2,3-Trichlorobenzene	++++ 1.6289	1.6199 1.6397	1.4923	1.5632	1.6000	Ave		1.5907				3.5		20.0			
Dibromofluoromethane (Surr)	0.1861 0.2346	0.2121 0.2249	0.2110	0.1587	0.2405	Ave		0.2097				14.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.1312 0.1619	0.1415 0.1541	0.1459	0.1123	0.1642	Ave		0.1444				13.0		20.0			
Toluene-d8 (Surr)	1.5873 1.9804	1.7648 1.8881	1.8076	1.3925	2.0371	Ave		1.7797				13.0		20.0			
4-Bromofluorobenzene (Surr)	0.4770 0.5835	0.5280 0.5681	0.5427	0.4210	0.6116	Ave		0.5331				12.0		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1 Analy Batch No.: 164151

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/01/2014 01:53 Calibration End Date: 02/01/2014 04:24 Calibration ID: 17365

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-164151/5	C36632.D
Level 2	IC 480-164151/7	C36633.D
Level 3	IC 480-164151/8	C36634.D
Level 4	IC 480-164151/9	C36635.D
Level 5	ICIS 480-164151/10	C36636.D
Level 6	IC 480-164151/11	C36637.D
Level 7	IC 480-164151/12	C36638.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	++++ 392624	7243 777620	45107	83217	207989	++++ 50.0	1.00 100	5.00	10.0	25.0
Chloromethane	FB	Ave	++++ 561601	14031 1098984	65901	121644	295255	++++ 50.0	1.00 100	5.00	10.0	25.0
Vinyl chloride	FB	Ave	4283 506991	11261 990751	56011	106220	260346	0.400 50.0	1.00 100	5.00	10.0	25.0
Butadiene	FB	Ave	++++ 525487	11704 1018472	61235	116808	282387	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromomethane	FB	Ave	++++ 285771	6956 579340	32088	60374	148959	++++ 50.0	1.00 100	5.00	10.0	25.0
Chloroethane	FB	Ave	++++ 301326	6624 597735	33158	63906	156379	++++ 50.0	1.00 100	5.00	10.0	25.0
Dichlorofluoromethane	FB	Ave	++++ 753454	17126 1506086	82918	159576	389162	++++ 50.0	1.00 100	5.00	10.0	25.0
Trichlorofluoromethane	FB	Ave	++++ 582635	10864 1143742	64250	121124	296455	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethyl ether	FB	Ave	++++ 367500	7316 732789	36062	71528	185510	++++ 50.0	1.00 100	5.00	10.0	25.0
Acrolein	FB	Ave	++++ 352450	5489 707629	31506	66556	171586	++++ 250	5.00 500	25.0	50.0	125
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 359016	7417 729409	37492	72910	185233	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloroethene	FB	Ave	++++ 327149	6904 654560	32792	65750	166855	++++ 50.0	1.00 100	5.00	10.0	25.0
Acetone	FB	Ave	++++ 678266	15647 1342871	62055	134789	340388	++++ 250	5.00 500	25.0	50.0	125
Iodomethane	FB	Ave	++++ 591966	12902 1192497	60900	120238	300695	++++ 50.0	1.00 100	5.00	10.0	25.0
Carbon disulfide	FB	Ave	++++ 1208384	26454 2437507	121784	244182	618898	++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1 Analy Batch No.: 164151

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/01/2014 01:53 Calibration End Date: 02/01/2014 04:24 Calibration ID: 17365

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	++++ 1748992	32678 3419029	168905	344197	873974	++++ 250	5.00 500	25.0	50.0	125
Allyl chloride	FB	Ave	++++ 735092	14675 1466530	73709	146484	369406	++++ 50.0	1.00 100	5.00	10.0	25.0
Methylene Chloride	FB	Ave	++++ 376328	9783 732627	39345	76658	192274	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Methyl-2-propanol	FB	Ave	++++ 574065	10539 1134988	50563	108671	273829	++++ 500	10.0 1000	50.0	100	250
Methyl tert-butyl ether	FB	Ave	++++ 1076428	21603 2174852	105712	209461	532768	++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,2-Dichloroethene	FB	Ave	++++ 356952	8222 702860	36914	71940	181166	++++ 50.0	1.00 100	5.00	10.0	25.0
Acrylonitrile	FB	Ave	++++ 1751384	34004 3399288	174219	346385	873353	++++ 500	10.0 1000	50.0	100	250
Hexane	FB	Ave	++++ 604998	13712 1232619	63617	125309	323931	++++ 50.0	1.00 100	5.00	10.0	25.0
Vinyl acetate	FB	Ave	++++ 1750872	32170 3554761	157703	326628	852520	++++ 100	2.00 200	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	++++ 736987	17148 1466614	76861	152752	380355	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Butanone (MEK)	FB	Ave	++++ 1047471	17734 2089661	93939	200187	510054	++++ 250	5.00 500	25.0	50.0	125
2,2-Dichloropropane	FB	Ave	++++ 531970	12170 1075440	54721	108127	272364	++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,2-Dichloroethene	FB	Ave	++++ 380489	8867 767028	39411	77719	197693	++++ 50.0	1.00 100	5.00	10.0	25.0
Chlorobromomethane	FB	Ave	++++ 194576	4145 390331	20272	40069	100583	++++ 50.0	1.00 100	5.00	10.0	25.0
Tetrahydrofuran	FB	Ave	++++ 288216	8222 568028	29728	57542	142264	++++ 100	2.00 200	10.0	20.0	50.0
Chloroform	FB	Ave	++++ 621996	14745 1244219	65699	129393	322844	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,1-Trichloroethane	FB	Ave	++++ 551052	12630 1113954	55609	109290	284943	++++ 50.0	1.00 100	5.00	10.0	25.0
Cyclohexane	FB	Ave	++++ 842738	17764 1702961	82673	170772	440675	++++ 50.0	1.00 100	5.00	10.0	25.0
Isobutyl alcohol	FB	Ave	++++ 681538	11988 1440215	56886	118222	334239	++++ 1250	25.0 2500	125	250	625
1,1-Dichloropropene	FB	Ave	++++ 460658	10252 924366	47299	91672	235939	++++ 50.0	1.00 100	5.00	10.0	25.0
Carbon tetrachloride	FB	Ave	++++ 496901	10897 1012230	51399	101573	252647	++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1 Analy Batch No.: 164151

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/01/2014 01:53 Calibration End Date: 02/01/2014 04:24 Calibration ID: 17365

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	++++ 1349057	31866 2699631	144481	282091	698221	++++ 50.0	1.00 100	5.00	10.0	25.0
n-Heptane	FB	Ave	++++ 600595	13777 1226180	64093	129820	327518	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloroethane	FB	Ave	++++ 585654	13151 1167175	61099	120017	299655	++++ 50.0	1.00 100	5.00	10.0	25.0
Trichloroethene	FB	Ave	++++ 345054	7365 698692	35703	71299	178448	++++ 50.0	1.00 100	5.00	10.0	25.0
Methylcyclohexane	FB	Ave	++++ 586933	11918 1201802	58894	116579	306009	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloropropane	FB	Ave	++++ 404803	8237 816833	42112	82238	206806	++++ 50.0	1.00 100	5.00	10.0	25.0
1,4-Dioxane	CBZ	Lin1	++++ 94641	911 182944	6635	17461	43809	++++ 1000	20.0 2000	100	200	500
Dibromomethane	FB	Ave	++++ 223133	4686 445938	22359	45338	112568	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromodichloromethane	FB	Ave	++++ 478688	9962 980112	47128	93232	239458	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chloroethyl vinyl ether	FB	Ave	++++ 251206	3951 520279	21314	45499	122136	++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	3491 547884	10313 1130897	50764	106684	275430	0.400 50.0	1.00 100	5.00	10.0	25.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	++++ 2312423	41427 4617975	207954	440733	1140251	++++ 250	5.00 500	25.0	50.0	125
Toluene	CBZ	Ave	++++ 829285	18342 1674383	86366	168390	428502	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethyl methacrylate	CBZ	Ave	++++ 437171	6264 914672	36006	77711	209441	++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,3-Dichloropropene	CBZ	Ave	3010 489121	9037 996664	43069	93586	244785	0.400 50.0	1.00 100	5.00	10.0	25.0
1,1,2-Trichloroethane	CBZ	Ave	++++ 254831	5138 516618	25916	53381	130919	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Hexanone	CBZ	Ave	++++ 1578853	25746 3142966	135957	297888	765306	++++ 250	5.00 500	25.0	50.0	125
Tetrachloroethene	CBZ	Ave	++++ 360531	8193 731853	37489	75518	188232	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichloropropane	CBZ	Ave	++++ 540237	10823 1080014	54674	112017	274351	++++ 50.0	1.00 100	5.00	10.0	25.0
Dibromochloromethane	CBZ	Ave	++++ 365637	6508 748457	32992	69476	180124	++++ 49.0	0.980 98.0	4.90	9.80	24.5
1,2-Dibromoethane	CBZ	Ave	++++ 308514	6705 623611	30493	60745	154468	++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1 Analy Batch No.: 164151

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/01/2014 01:53 Calibration End Date: 02/01/2014 04:24 Calibration ID: 17365

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBZ	Ave	++++ 934656	20680 1874977	95219	192062	478970	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethylbenzene	CBZ	Ave	++++ 1606968	34799 3257459	161408	319501	817954	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	++++ 347928	7540 706159	34604	69006	175776	++++ 50.0	1.00 100	5.00	10.0	25.0
m,p-Xylene	CBZ	Ave	++++ 624683	12584 1257469	61098	125703	316938	++++ 50.0	1.00 100	5.00	10.0	25.0
o-Xylene	CBZ	Ave	++++ 606275	11277 1234431	58013	120367	309107	++++ 50.0	1.00 100	5.00	10.0	25.0
Styrene	CBZ	Ave	++++ 1010641	17994 2063290	88872	188531	501600	++++ 50.0	1.00 100	5.00	10.0	25.0
Isopropylbenzene	DCB	Ave	++++ 1598334	30599 3283309	153735	314723	814462	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromoform	CBZ	Ave	++++ 235684	4032 492529	19809	43847	113069	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2,2-Tetrachloroethane	DCB	Ave	++++ 422434	9120 843486	40483	84619	212112	++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,4-Dichloro-2-butene	DCB	Lin	++++ 121708	527 271691	7647	16673	53367	++++ 50.0	1.00 100	5.00	10.0	25.0
N-Propylbenzene	DCB	Ave	++++ 1927448	38388 3915646	186552	379606	970163	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichloropropane	DCB	Ave	++++ 130806	2302 264084	12724	26002	65190	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromobenzene	DCB	Ave	++++ 401132	8149 801685	39693	81848	204561	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trimethylbenzene	DCB	Ave	++++ 1365850	25618 2797145	128609	261072	680282	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chlorotoluene	DCB	Ave	++++ 380104	8531 769355	38399	76727	190431	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Chlorotoluene	DCB	Ave	++++ 388245	8058 781333	38651	78891	198205	++++ 50.0	1.00 100	5.00	10.0	25.0
tert-Butylbenzene	DCB	Ave	++++ 284641	5550 586829	25935	54941	142941	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trimethylbenzene	DCB	Ave	++++ 1425484	26611 2895574	135233	280603	720486	++++ 50.0	1.00 100	5.00	10.0	25.0
sec-Butylbenzene	DCB	Ave	++++ 1718708	32359 3511272	162016	335516	865340	++++ 50.0	1.00 100	5.00	10.0	25.0
p-Isopropyltoluene	DCB	Ave	++++ 1483383	27016 3023340	137500	284004	735279	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichlorobenzene	DCB	Ave	++++ 770681	17385 1548222	80472	159236	392164	++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1 Analy Batch No.: 164151

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/01/2014 01:53 Calibration End Date: 02/01/2014 04:24 Calibration ID: 17365

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Ave	++++ 787398	18383 1581563	81503	166226	403238	++++ 50.0	1.00 100	5.00	10.0	25.0
n-Butylbenzene	DCB	Ave	++++ 1351347	26451 2766816	127443	262926	682237	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichlorobenzene	DCB	Ave	++++ 762044	16087 1523785	77804	155977	391269	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	++++ 85566	1709 175813	7997	16441	40734	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trichlorobenzene	DCB	Ave	++++ 581569	12190 1179881	58107	114871	290784	++++ 50.0	1.00 100	5.00	10.0	25.0
Hexachlorobutadiene	DCB	Ave	1408 239316	4571 491084	24508	48218	119678	0.400 50.0	1.00 100	5.00	10.0	25.0
Naphthalene	DCB	Ave	++++ 1494815	25827 3018774	125694	272043	714234	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichlorobenzene	DCB	Ave	++++ 568923	11573 1145743	53609	111300	280993	++++ 50.0	1.00 100	5.00	10.0	25.0
Dibromofluoromethane (Surr)	FB	Ave	85014 98995	94378 94694	93172	69467	104731	25.0 25.0	25.0 25.0	25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	59932 68316	62970 64872	64427	49134	71505	25.0 25.0	25.0 25.0	25.0	25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	299007 365706	332789 343683	340498	258851	377064	25.0 25.0	25.0 25.0	25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	89862 107757	99557 103407	102227	78259	113206	25.0 25.0	25.0 25.0	25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36632.D
 Lims ID: IC 0.4 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 01-Feb-2014 01:53:30 ALS Bottle#: 2 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.4
 Misc. Info.: 480-0029209-005
 Operator ID: RAL Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Feb-2014 10:05:58 Calib Date: 01-Feb-2014 04:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36638.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: HillL

Date: 04-Feb-2014 10:05:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.393	9.381	0.012	98	456847	25.0	
* 2 Chlorobenzene-d5	82	11.800	11.788	0.012	86	188371	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.804	13.804	0.0	95	181434	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	8.871	8.859	0.012	55	85014	22.2	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.167	9.167	0.0	0	59932	22.7	
\$ 5 Toluene-d8 (Surr)	98	10.602	10.602	0.0	94	299007	22.3	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	84	89862	22.4	
10 Dichlorodifluoromethane	85		4.460					
12 Chloromethane	50		4.863					
13 Vinyl chloride	62	5.100	5.100	0.0	21	4283	0.3863	
151 Butadiene	54		5.136					
14 Bromomethane	94		5.693					
15 Chloroethane	64		5.835					
16 Dichlorofluoromethane	67		6.120					
17 Trichlorofluoromethane	101		6.191					
18 Ethyl ether	59		6.487					
20 Acrolein	56		6.736					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.760					
22 1,1-Dichloroethene	96		6.819					
23 Acetone	43		6.891					
25 Iodomethane	142		7.057					
26 Carbon disulfide	76		7.140					
27 Methyl acetate	43		7.175					
28 3-Chloro-1-propene	41		7.199					
30 Methylene Chloride	84		7.353					
31 2-Methyl-2-propanol	59		7.377					
32 Methyl tert-butyl ether	73		7.519					
34 trans-1,2-Dichloroethene	96		7.590					
33 Acrylonitrile	53		7.602					
35 Hexane	57		7.733					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
37 Vinyl acetate	43		7.934					
39 1,1-Dichloroethane	63		7.982					
43 2-Butanone (MEK)	43		8.444					
45 cis-1,2-Dichloroethene	96		8.480					
44 2,2-Dichloropropane	77		8.480					
48 Chlorobromomethane	128		8.705					
50 Chloroform	83		8.717					
49 Tetrahydrofuran	42		8.717					
51 1,1,1-Trichloroethane	97		8.895					
52 Cyclohexane	56		8.930					
53 Isobutyl alcohol	43		8.966					
54 1,1-Dichloropropene	75		9.001					
55 Carbon tetrachloride	117		9.025					
57 Benzene	78		9.203					
59 n-Heptane	43		9.215					
58 1,2-Dichloroethane	62		9.227					
62 Trichloroethene	95		9.677					
64 Methylcyclohexane	83		9.808					
65 1,2-Dichloropropane	63		9.879					
66 1,4-Dioxane	88		9.950					
67 Dibromomethane	93		10.021					
68 Dichlorobromomethane	83		10.081					
69 2-Chloroethyl vinyl ether	63		10.199					
72 cis-1,3-Dichloropropene	75	10.401	10.401	0.0	15	3491	0.3188	
73 4-Methyl-2-pentanone (MIBK)	43		10.436					
74 Toluene	92		10.662					
75 Ethyl methacrylate	69		10.733					
77 trans-1,3-Dichloropropene	75	10.816	10.816	0.0	1	3010	0.3246	
79 1,1,2-Trichloroethane	83		10.994					
80 2-Hexanone	43		11.077					
81 Tetrachloroethene	166		11.112					
82 1,3-Dichloropropane	76		11.136					
83 Chlorodibromomethane	129		11.361					
84 Ethylene Dibromide	107		11.492					
88 Ethylbenzene	91		11.824					
87 Chlorobenzene	112		11.824					
89 1,1,1,2-Tetrachloroethane	131		11.859					
90 m-Xylene & p-Xylene	106		11.907					
91 o-Xylene	106		12.251					
92 Styrene	104		12.262					
94 Isopropylbenzene	105		12.523					
95 Bromoform	173		12.547					
97 1,1,2,2-Tetrachloroethane	83		12.820					
98 trans-1,4-Dichloro-2-butene	53		12.844					
99 N-Propylbenzene	91		12.867					
100 1,2,3-Trichloropropane	110		12.903					
101 Bromobenzene	156		12.927					
102 1,3,5-Trimethylbenzene	105		12.986					
103 2-Chlorotoluene	126		13.045					
105 4-Chlorotoluene	126		13.128					
106 tert-Butylbenzene	134		13.318					
107 1,2,4-Trimethylbenzene	105		13.353					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105		13.519					
110 4-Isopropyltoluene	119		13.614					
111 1,3-Dichlorobenzene	146		13.757					
113 1,4-Dichlorobenzene	146		13.840					
115 n-Butylbenzene	91		14.029					
116 1,2-Dichlorobenzene	146		14.255					
117 1,2-Dibromo-3-Chloropropane	75		15.144					
119 1,2,4-Trichlorobenzene	180		16.176					
120 Hexachlorobutadiene	225	16.283	16.271	0.012	1	1408	0.2982	
121 Naphthalene	128		16.615					
122 1,2,3-Trichlorobenzene	180		16.982					
S 123 Total BTEX	1		30.000					
S 124 Xylenes, Total	1		30.000					
S 125 1,2-Dichloroethene, Total	1		30.000					
S 126 1,3-Dichloropropene, Total	1				0		0.6434	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36632.D

Injection Date: 01-Feb-2014 01:53:30

Instrument ID: HP5973C

Operator ID: RAL

Lims ID: IC 0.4

Lab Sample ID:

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

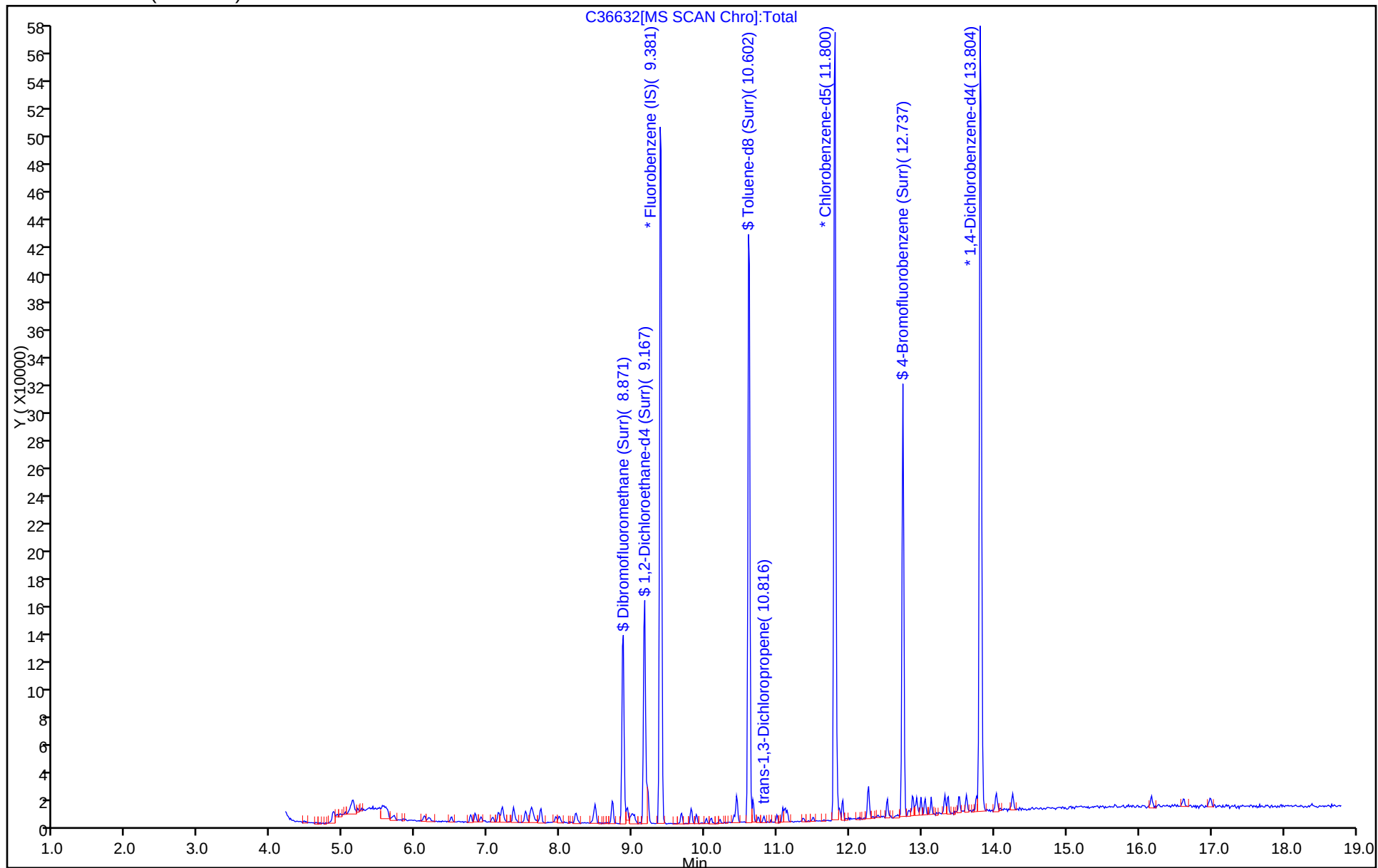
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36633.D
 Lims ID: IC Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Feb-2014 02:18:30 ALS Bottle#: 3 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0029209-007
 Operator ID: RAL Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Feb-2014 16:05:23 Calib Date: 01-Feb-2014 04:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36638.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: HillL

Date: 04-Feb-2014 10:01:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.393	9.381	0.012	98	444953	25.0	
* 2 Chlorobenzene-d5	82	11.788	11.788	0.0	90	188571	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.816	13.804	0.012	93	178608	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	8.871	8.859	0.012	54	94378	25.3	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.167	9.167	0.0	0	62970	24.5	
\$ 5 Toluene-d8 (Surr)	98	10.602	10.602	0.0	94	332789	24.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	84	99557	24.8	
10 Dichlorodifluoromethane	85	4.471	4.460	0.011	27	7243	0.8728	
12 Chloromethane	50	4.863	4.863	0.0	70	14031	1.12	
13 Vinyl chloride	62	5.100	5.100	0.0	23	11261	1.04	
151 Butadiene	54	5.135	5.136	-0.001	88	11704	1.01	
14 Bromomethane	94	5.693	5.693	0.0	63	6956	1.10	
15 Chloroethane	64	5.835	5.835	0.0	41	6624	1.02	
16 Dichlorofluoromethane	67	6.120	6.120	0.0	29	17126	1.05	
17 Trichlorofluoromethane	101	6.191	6.191	0.0	32	10864	0.8976	
18 Ethyl ether	59	6.499	6.487	0.012	77	7316	0.9769	
20 Acrolein	56	6.748	6.736	0.012	38	5489	4.06	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.760	6.760	0.0	31	7417	0.9838	
22 1,1-Dichloroethene	96	6.831	6.819	0.012	63	6904	1.01	
23 Acetone	43	6.902	6.891	0.011	67	15647	5.57	
25 Iodomethane	142	7.068	7.057	0.011	75	12902	1.04	
26 Carbon disulfide	76	7.151	7.140	0.011	79	26454	1.04	
27 Methyl acetate	43	7.187	7.175	0.012	89	32678	4.66	
28 3-Chloro-1-propene	41	7.211	7.199	0.012	63	14675	0.9727	
30 Methylene Chloride	84	7.353	7.353	0.0	77	9783	1.20	
31 2-Methyl-2-propanol	59	7.377	7.377	0.0	60	10539	9.43	
32 Methyl tert-butyl ether	73	7.531	7.519	0.012	79	21603	0.9845	
34 trans-1,2-Dichloroethene	96	7.590	7.590	0.0	59	8222	1.09	
33 Acrylonitrile	53	7.614	7.602	0.012	84	34004	9.58	
35 Hexane	57	7.732	7.733	-0.001	83	13712	1.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
37 Vinyl acetate	43	7.934	7.934	0.0	89	32170	1.87	M
39 1,1-Dichloroethane	63	7.993	7.982	0.011	31	17148	1.09	
43 2-Butanone (MEK)	43	8.456	8.444	0.012	89	17734	4.36	
45 cis-1,2-Dichloroethene	96	8.480	8.480	0.0	50	8867	1.09	
44 2,2-Dichloropropane	77	8.480	8.480	0.0	55	12170	1.08	
48 Chlorobromomethane	128	8.717	8.705	0.012	71	4145	1.01	
50 Chloroform	83	8.729	8.717	0.012	59	14745	1.10	
49 Tetrahydrofuran	42	8.729	8.717	0.012	65	8222	2.60	
51 1,1,1-Trichloroethane	97	8.895	8.895	0.0	64	12630	1.08	
52 Cyclohexane	56	8.930	8.930	0.0	73	17764	1.01	
53 Isobutyl alcohol	43	8.978	8.966	0.012	54	11988	22.8	
54 1,1-Dichloropropene	75	9.001	9.001	0.0	37	10252	1.06	
55 Carbon tetrachloride	117	9.025	9.025	0.0	58	10897	1.04	
57 Benzene	78	9.203	9.203	0.0	85	31866	1.09	
59 n-Heptane	43	9.215	9.215	0.0	80	13777	1.05	
58 1,2-Dichloroethane	62	9.227	9.227	0.0	55	13151	1.06	
62 Trichloroethene	95	9.677	9.677	0.0	65	7365	1.01	
64 Methylcyclohexane	83	9.808	9.808	0.0	80	11918	0.9765	
65 1,2-Dichloropropane	63	9.879	9.879	0.0	58	8237	0.9746	
66 1,4-Dioxane	88	9.950	9.950	0.0	1	911	23.4	
67 Dibromomethane	93	10.021	10.021	0.0	70	4686	1.01	
68 Dichlorobromomethane	83	10.080	10.081	0.0	50	9962	1.01	
69 2-Chloroethyl vinyl ether	63	10.211	10.199	0.012	28	3951	0.8271	
72 cis-1,3-Dichloropropene	75	10.401	10.401	0.0	48	10313	0.9670	
73 4-Methyl-2-pentanone (MIBK)	43	10.436	10.436	0.0	88	41427	4.61	
74 Toluene	92	10.662	10.662	0.0	80	18342	1.05	
75 Ethyl methacrylate	69	10.733	10.733	0.0	42	6264	0.7782	
77 trans-1,3-Dichloropropene	75	10.816	10.816	0.0	58	9037	0.9736	
79 1,1,2-Trichloroethane	83	10.994	10.994	0.0	44	5138	0.9745	
80 2-Hexanone	43	11.077	11.077	0.0	93	25746	4.31	
81 Tetrachloroethene	166	11.112	11.112	0.0	75	8193	1.07	
82 1,3-Dichloropropane	76	11.136	11.136	0.0	67	10823	0.9760	
83 Chlorodibromomethane	129	11.361	11.361	0.0	36	6508	0.8957	
84 Ethylene Dibromide	107	11.492	11.492	0.0	37	6705	1.06	
88 Ethylbenzene	91	11.824	11.824	0.0	84	34799	1.05	
87 Chlorobenzene	112	11.824	11.824	0.0	74	20680	1.06	
89 1,1,1,2-Tetrachloroethane	131	11.859	11.859	0.0	46	7540	1.05	
90 m-Xylene & p-Xylene	106	11.907	11.907	0.0	0	12584	0.9900	
91 o-Xylene	106	12.251	12.251	0.0	81	11277	0.9285	
92 Styrene	104	12.262	12.262	0.0	73	17994	0.9199	
94 Isopropylbenzene	105	12.523	12.523	0.0	73	30599	0.9555	
95 Bromoform	173	12.547	12.547	0.0	23	4032	0.8970	
97 1,1,2,2-Tetrachloroethane	83	12.820	12.820	0.0	2	9120	1.06	
98 trans-1,4-Dichloro-2-butene	53	12.843	12.844	-0.001	0	527	3.60	M
99 N-Propylbenzene	91	12.867	12.867	0.0	85	38388	0.99	
100 1,2,3-Trichloropropane	110	12.903	12.903	0.0	24	2302	0.8929	
101 Bromobenzene	156	12.926	12.927	-0.001	57	8149	1.00	
102 1,3,5-Trimethylbenzene	105	12.986	12.986	0.0	69	25618	0.9511	
103 2-Chlorotoluene	126	13.045	13.045	0.0	75	8531	1.08	
105 4-Chlorotoluene	126	13.128	13.128	0.0	63	8058	1.01	
106 tert-Butylbenzene	134	13.318	13.318	0.0	60	5550	0.9835	
107 1,2,4-Trimethylbenzene	105	13.365	13.353	0.012	50	26611	0.9407	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	13.519	13.519	0.0	51	32359	0.9494	
110 4-Isopropyltoluene	119	13.614	13.614	0.0	66	27016	0.9315	
111 1,3-Dichlorobenzene	146	13.757	13.757	0.0	71	17385	1.08	
113 1,4-Dichlorobenzene	146	13.840	13.840	0.0	71	18383	1.10	
115 n-Butylbenzene	91	14.029	14.029	0.0	75	26451	0.9805	
116 1,2-Dichlorobenzene	146	14.255	14.255	0.0	57	16087	1.02	
117 1,2-Dibromo-3-Chloropropane	75	15.144	15.144	0.0	1	1709	1.01	
119 1,2,4-Trichlorobenzene	180	16.176	16.176	0.0	28	12190	1.03	
120 Hexachlorobutadiene	225	16.271	16.271	0.0	8	4571	0.9835	
121 Naphthalene	128	16.614	16.615	-0.001	53	25827	0.9190	
122 1,2,3-Trichlorobenzene	180	16.994	16.982	0.012	29	11573	1.02	
S 123 Total BTEX	1				0		5.11	
S 124 Xylenes, Total	1				0		1.92	
S 125 1,2-Dichloroethene, Total	1				0		2.18	
S 126 1,3-Dichloropropene, Total	1				0		1.94	

QC Flag Legend

Review Flags

M - Manually Integrated

Chrom Revision: 2.1 15-Jan-2014 14:06:26

Data File: \\Bufchrom\\ChromData\\HP5973C\\20140131-29209.b\\C36633.D

Instrument ID: HP5973C

Operator ID: RAL

Lab Sample ID:

Worklist Smp#: 7

Purge Vol: 5.000 mL

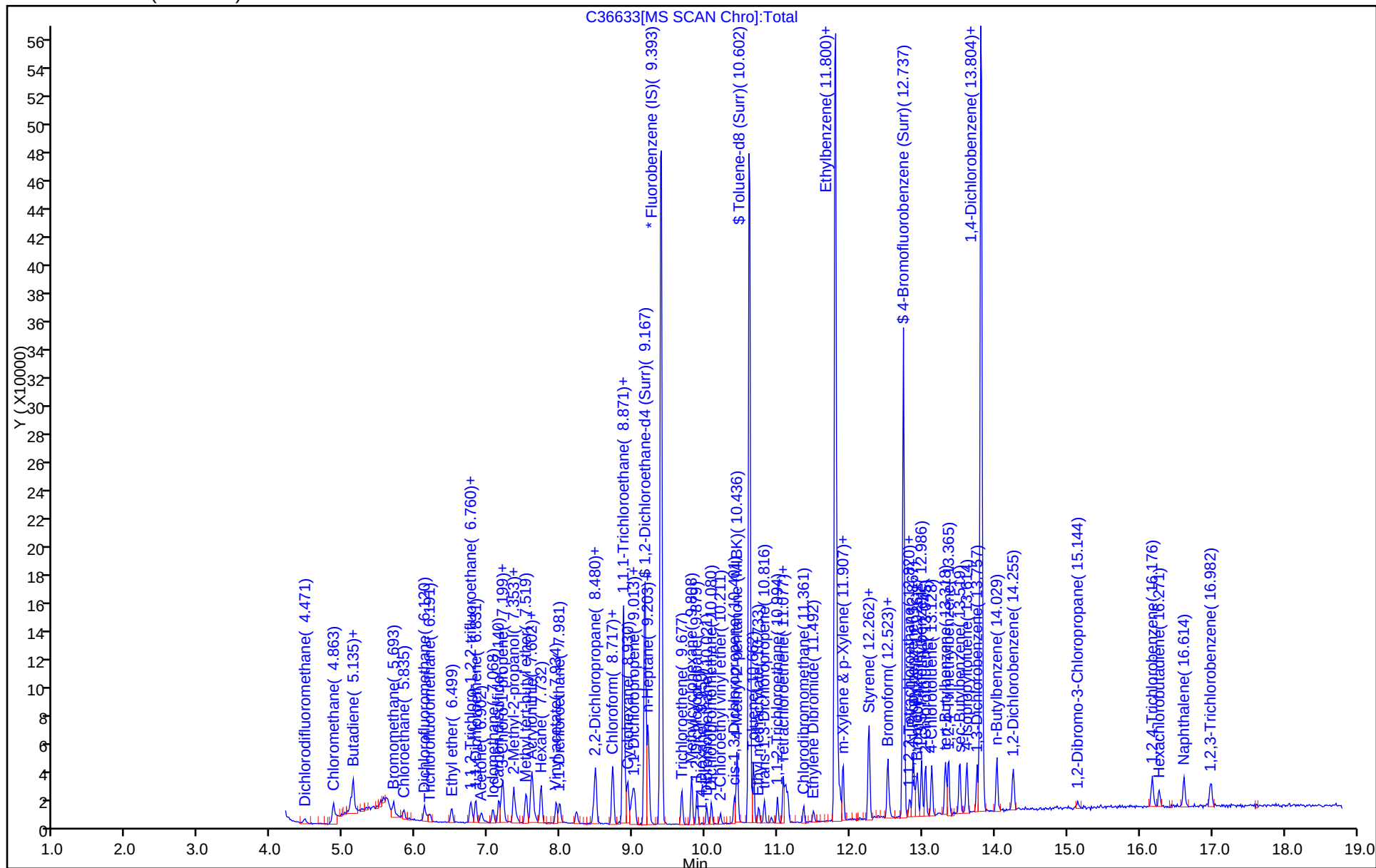
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36633.D

Injection Date: 01-Feb-2014 02:18:30

Instrument ID: HP5973C

Lims ID: IC

Lab Sample ID:

Client ID:

Operator ID: RAL

ALS Bottle#:

3

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

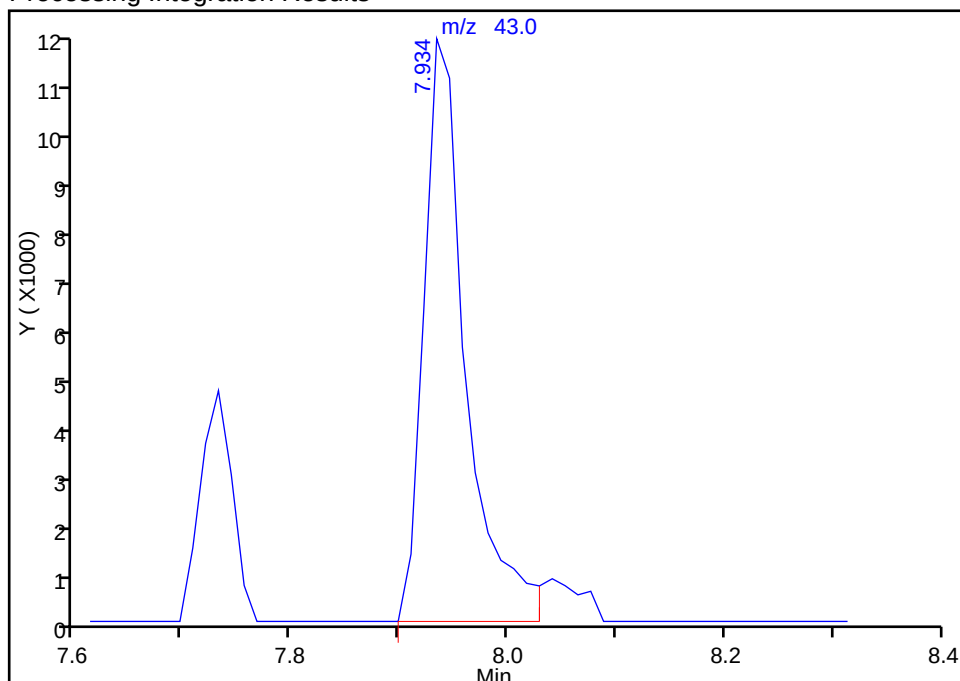
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

37 Vinyl acetate, CAS: 108-05-4

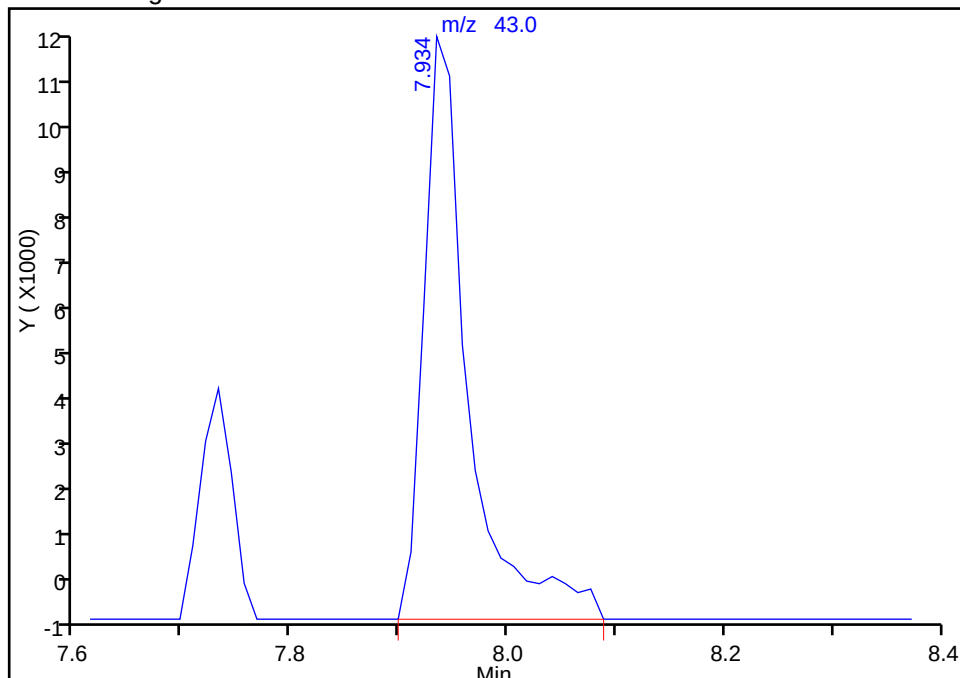
RT: 7.93
Response: 30299
Amount: 1.776829

Processing Integration Results



RT: 7.93
Response: 32170
Amount: 1.869457

Manual Integration Results



Reviewer: HillL, 04-Feb-2014 10:02:11

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36633.D

Injection Date: 01-Feb-2014 02:18:30

Instrument ID: HP5973C

Lims ID: IC

Lab Sample ID:

Client ID:

Operator ID: RAL

ALS Bottle#:

3

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

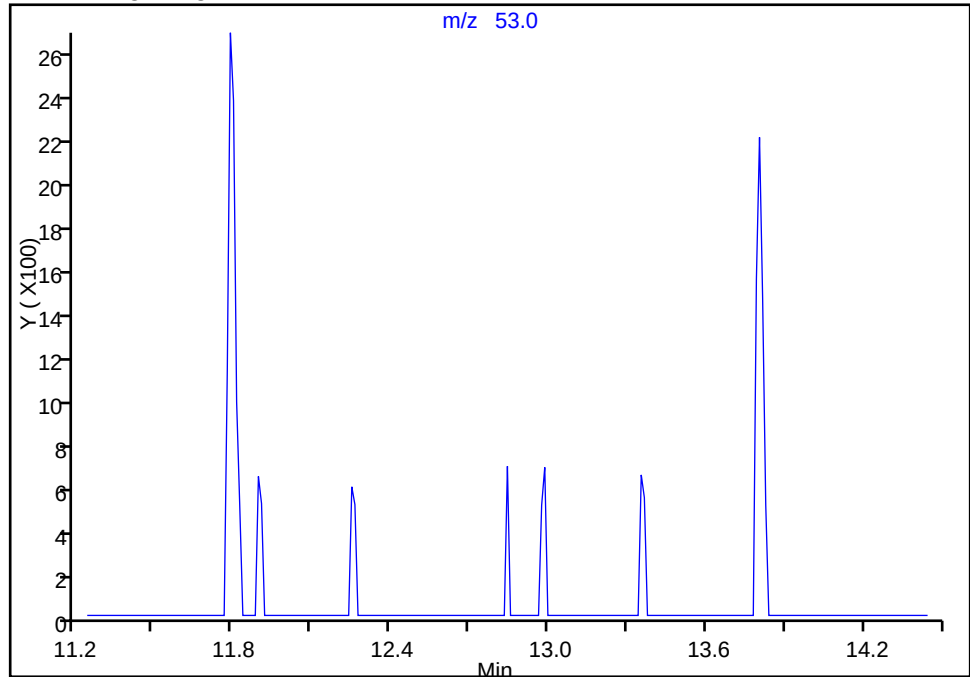
MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Not Detected

Expected RT: 12.84

Processing Integration Results

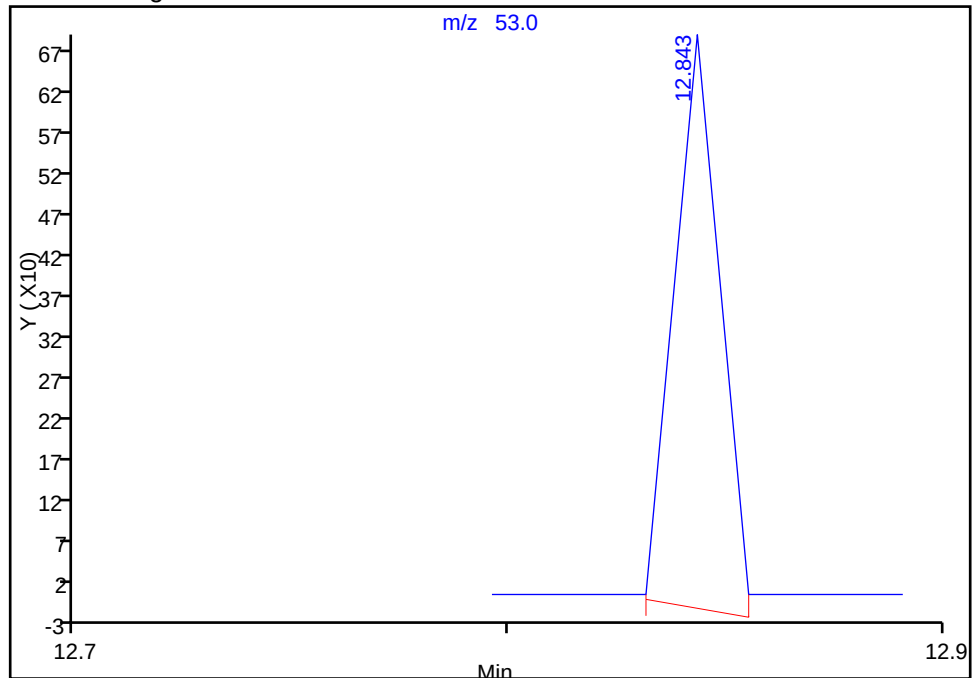


RT: 12.84

Response: 527

Amount: 3.595658

Manual Integration Results



Reviewer: HillL, 04-Feb-2014 10:01:04

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36634.D
 Lims ID: IC 2 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 01-Feb-2014 02:43:30 ALS Bottle#: 4 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0029209-008
 Operator ID: RAL Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Feb-2014 16:05:39 Calib Date: 01-Feb-2014 04:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36638.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: HillL

Date: 04-Feb-2014 10:01:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.393	9.381	0.012	98	441474	25.0	
* 2 Chlorobenzene-d5	82	11.800	11.788	0.012	88	188366	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.804	13.804	0.0	95	179619	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	8.871	8.859	0.012	55	93172	25.2	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.167	9.167	0.0	0	64427	25.3	
\$ 5 Toluene-d8 (Surr)	98	10.602	10.602	0.0	94	340498	25.4	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	85	102227	25.4	
10 Dichlorodifluoromethane	85	4.460	4.460	0.0	77	45107	5.48	
12 Chloromethane	50	4.863	4.863	0.0	88	65901	5.30	
13 Vinyl chloride	62	5.100	5.100	0.0	87	56011	5.23	
151 Butadiene	54	5.136	5.136	0.0	92	61235	5.34	
14 Bromomethane	94	5.693	5.693	0.0	79	32088	5.13	
15 Chloroethane	64	5.835	5.835	0.0	85	33158	5.16	
16 Dichlorofluoromethane	67	6.120	6.120	0.0	79	82918	5.13	
17 Trichlorofluoromethane	101	6.191	6.191	0.0	72	64250	5.35	
18 Ethyl ether	59	6.487	6.487	0.0	94	36062	4.85	
20 Acrolein	56	6.748	6.736	0.012	82	31506	23.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.760	6.760	0.0	75	37492	5.01	
22 1,1-Dichloroethene	96	6.831	6.819	0.012	80	32792	4.86	
23 Acetone	43	6.902	6.891	0.011	95	62055	22.3	
25 Iodomethane	142	7.068	7.057	0.011	96	60900	4.93	
26 Carbon disulfide	76	7.151	7.140	0.011	99	121784	4.83	
27 Methyl acetate	43	7.187	7.175	0.012	92	168905	24.3	
28 3-Chloro-1-propene	41	7.199	7.199	0.0	79	73709	4.92	
30 Methylene Chloride	84	7.353	7.353	0.0	89	39345	4.85	
31 2-Methyl-2-propanol	59	7.377	7.377	0.0	87	50563	45.6	
32 Methyl tert-butyl ether	73	7.519	7.519	0.0	92	105712	4.86	
34 trans-1,2-Dichloroethene	96	7.590	7.590	0.0	86	36914	4.92	
33 Acrylonitrile	53	7.602	7.602	0.0	98	174219	49.5	
35 Hexane	57	7.733	7.733	0.0	92	63617	4.91	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
37 Vinyl acetate	43	7.934	7.934	0.0	96	157703	9.24	
39 1,1-Dichloroethane	63	7.982	7.982	0.0	85	76861	4.91	
43 2-Butanone (MEK)	43	8.456	8.444	0.012	96	93939	23.3	
45 cis-1,2-Dichloroethene	96	8.492	8.480	0.012	74	39411	4.87	
44 2,2-Dichloropropane	77	8.480	8.480	0.0	82	54721	4.87	
48 Chlorobromomethane	128	8.717	8.705	0.012	81	20272	4.97	
50 Chloroform	83	8.717	8.717	0.0	74	65699	4.93	
49 Tetrahydrofuran	42	8.717	8.717	0.0	61	29728	9.47	
51 1,1,1-Trichloroethane	97	8.895	8.895	0.0	90	55609	4.80	
52 Cyclohexane	56	8.930	8.930	0.0	92	82673	4.74	
53 Isobutyl alcohol	43	8.978	8.966	0.012	86	56886	109.2	
54 1,1-Dichloropropene	75	9.001	9.001	0.0	85	47299	4.91	
55 Carbon tetrachloride	117	9.025	9.025	0.0	73	51399	4.93	
57 Benzene	78	9.203	9.203	0.0	94	144481	4.99	
59 n-Heptane	43	9.215	9.215	0.0	95	64093	4.91	
58 1,2-Dichloroethane	62	9.227	9.227	0.0	78	61099	4.95	
62 Trichloroethene	95	9.677	9.677	0.0	83	35703	4.93	
64 Methylcyclohexane	83	9.808	9.808	0.0	96	58894	4.86	
65 1,2-Dichloropropane	63	9.879	9.879	0.0	88	42112	5.02	
66 1,4-Dioxane	88	9.950	9.950	0.0	57	6635	83.6	
67 Dibromomethane	93	10.021	10.021	0.0	85	22359	4.86	
68 Dichlorobromomethane	83	10.081	10.081	0.001	85	47128	4.82	
69 2-Chloroethyl vinyl ether	63	10.199	10.199	0.0	73	21314	4.50	
72 cis-1,3-Dichloropropene	75	10.401	10.401	0.0	71	50764	4.80	
73 4-Methyl-2-pentanone (MIBK)	43	10.436	10.436	0.0	98	207954	23.2	
74 Toluene	92	10.662	10.662	0.0	95	86366	4.97	
75 Ethyl methacrylate	69	10.733	10.733	0.0	87	36006	4.48	
77 trans-1,3-Dichloropropene	75	10.816	10.816	0.0	87	43069	4.64	
79 1,1,2-Trichloroethane	83	10.994	10.994	0.0	92	25916	4.92	
80 2-Hexanone	43	11.077	11.077	0.0	98	135957	22.8	
81 Tetrachloroethene	166	11.112	11.112	0.0	88	37489	4.90	
82 1,3-Dichloropropane	76	11.136	11.136	0.0	89	54674	4.94	
83 Chlorodibromomethane	129	11.361	11.361	0.0	75	32992	4.55	
84 Ethylene Dibromide	107	11.492	11.492	0.0	81	30493	4.82	
88 Ethylbenzene	91	11.824	11.824	0.0	93	161408	4.86	
87 Chlorobenzene	112	11.824	11.824	0.0	85	95219	4.88	
89 1,1,1,2-Tetrachloroethane	131	11.859	11.859	0.0	73	34604	4.83	
90 m-Xylene & p-Xylene	106	11.907	11.907	0.0	0	61098	4.81	
91 o-Xylene	106	12.251	12.251	0.0	92	58013	4.78	
92 Styrene	104	12.263	12.262	0.0	82	88872	4.55	
94 Isopropylbenzene	105	12.523	12.523	0.0	94	153735	4.77	
95 Bromoform	173	12.547	12.547	0.0	77	19809	4.41	
97 1,1,2,2-Tetrachloroethane	83	12.820	12.820	0.0	89	40483	4.68	
98 trans-1,4-Dichloro-2-butene	53	12.855	12.844	0.011	21	7647	6.10	
99 N-Propylbenzene	91	12.867	12.867	0.0	97	186552	4.79	
100 1,2,3-Trichloropropane	110	12.903	12.903	0.0	61	12724	4.91	
101 Bromobenzene	156	12.927	12.927	0.0	78	39693	4.84	
102 1,3,5-Trimethylbenzene	105	12.986	12.986	0.0	81	128609	4.75	
103 2-Chlorotoluene	126	13.045	13.045	0.0	91	38399	4.85	
105 4-Chlorotoluene	126	13.128	13.128	0.0	97	38651	4.84	
106 tert-Butylbenzene	134	13.318	13.318	0.0	91	25935	4.57	
107 1,2,4-Trimethylbenzene	105	13.353	13.353	0.0	96	135233	4.75	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	13.520	13.519	0.001	88	162016	4.73	
110 4-Isopropyltoluene	119	13.614	13.614	0.0	93	137500	4.71	
111 1,3-Dichlorobenzene	146	13.757	13.757	0.0	95	80472	4.95	
113 1,4-Dichlorobenzene	146	13.840	13.840	0.0	89	81503	4.87	
115 n-Butylbenzene	91	14.029	14.029	0.0	94	127443	4.70	
116 1,2-Dichlorobenzene	146	14.255	14.255	0.0	92	77804	4.92	
117 1,2-Dibromo-3-Chloropropane	75	15.144	15.144	0.0	18	7997	4.70	
119 1,2,4-Trichlorobenzene	180	16.176	16.176	0.0	83	58107	4.88	
120 Hexachlorobutadiene	225	16.271	16.271	0.0	75	24508	5.24	
121 Naphthalene	128	16.615	16.615	0.0	92	125694	4.45	
122 1,2,3-Trichlorobenzene	180	16.982	16.982	0.0	83	53609	4.69	
S 123 Total BTEX	1				0		24.4	
S 124 Xylenes, Total	1				0		9.59	
S 125 1,2-Dichloroethene, Total	1				0		9.80	
S 126 1,3-Dichloropropene, Total	1				0		9.44	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36634.D

Injection Date: 01-Feb-2014 02:43:30

Instrument ID: HP5973C

Operator ID: RAL

Lims ID: IC 2

Lab Sample ID:

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

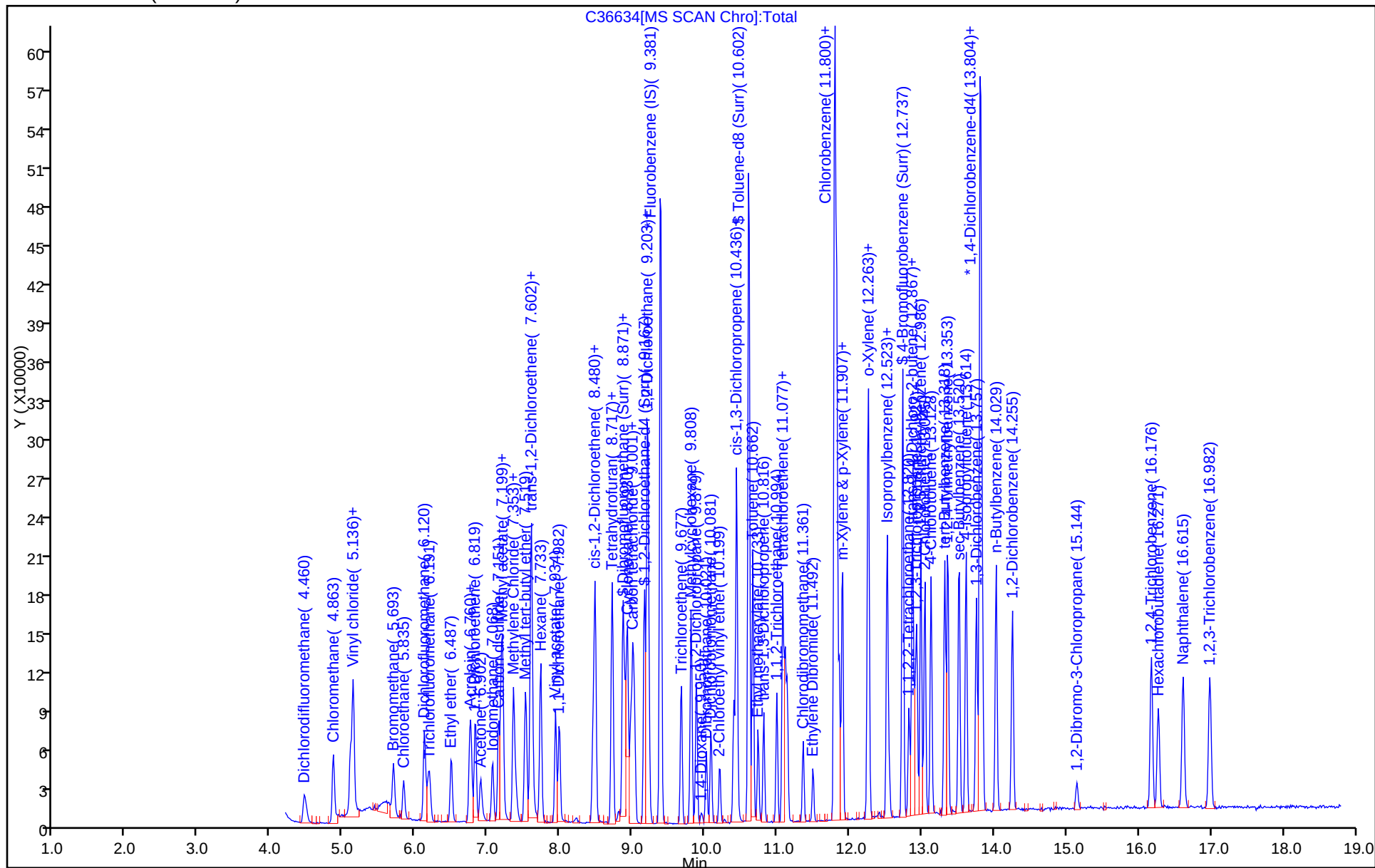
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36635.D
 Lims ID: IC 3 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 01-Feb-2014 03:09:30 ALS Bottle#: 5 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0029209-009
 Operator ID: RAL Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Feb-2014 10:02:57 Calib Date: 01-Feb-2014 04:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36638.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: HillL

Date: 04-Feb-2014 10:02:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.381	9.381	0.0	98	437707	25.0	
* 2 Chlorobenzene-d5	82	11.788	11.788	0.0	91	185887	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.816	13.816	0.0	89	177998	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	8.859	8.859	0.0	51	69467	18.9	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.167	9.167	0.0	0	49134	19.4	
\$ 5 Toluene-d8 (Surr)	98	10.602	10.602	0.0	94	258851	19.6	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	85	78259	19.7	
10 Dichlorodifluoromethane	85	4.460	4.460	0.0	81	83217	10.2	
12 Chloromethane	50	4.863	4.863	0.0	99	121644	9.87	
13 Vinyl chloride	62	5.100	5.100	0.0	83	106220	10.0	
151 Butadiene	54	5.136	5.136	0.0	91	116808	10.3	
14 Bromomethane	94	5.693	5.693	0.0	89	60374	9.74	
15 Chloroethane	64	5.823	5.823	0.0	96	63906	10.0	
16 Dichlorofluoromethane	67	6.120	6.120	0.0	81	159576	9.95	
17 Trichlorofluoromethane	101	6.191	6.191	0.0	81	121124	10.2	
18 Ethyl ether	59	6.487	6.487	0.0	95	71528	9.71	
20 Acrolein	56	6.736	6.736	0.0	93	66556	50.1	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.760	6.760	0.0	81	72910	9.83	
22 1,1-Dichloroethene	96	6.819	6.819	0.0	81	65750	9.82	
23 Acetone	43	6.891	6.891	0.0	95	134789	48.8	
25 Iodomethane	142	7.057	7.057	0.0	98	120238	9.81	
26 Carbon disulfide	76	7.140	7.140	0.0	99	244182	9.77	
27 Methyl acetate	43	7.175	7.175	0.0	99	344197	49.9	
28 3-Chloro-1-propene	41	7.199	7.199	0.0	80	146484	9.87	
30 Methylene Chloride	84	7.353	7.353	0.0	91	76658	9.53	
31 2-Methyl-2-propanol	59	7.377	7.377	0.0	94	108671	98.8	
32 Methyl tert-butyl ether	73	7.519	7.519	0.0	92	209461	9.70	
34 trans-1,2-Dichloroethene	96	7.590	7.590	0.0	90	71940	9.68	
33 Acrylonitrile	53	7.602	7.602	0.0	97	346385	99.2	
35 Hexane	57	7.733	7.733	0.0	95	125309	9.76	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
37 Vinyl acetate	43	7.934	7.934	0.0	97	326628	19.3	
39 1,1-Dichloroethane	63	7.982	7.982	0.0	85	152752	9.83	
43 2-Butanone (MEK)	43	8.444	8.444	0.0	98	200187	50.0	
45 cis-1,2-Dichloroethene	96	8.480	8.480	0.0	76	77719	9.69	
44 2,2-Dichloropropane	77	8.480	8.480	0.0	84	108127	9.71	
48 Chlorobromomethane	128	8.705	8.705	0.0	85	40069	9.92	
50 Chloroform	83	8.717	8.717	0.0	78	129393	9.79	
49 Tetrahydrofuran	42	8.717	8.717	0.0	62	57542	18.5	
51 1,1,1-Trichloroethane	97	8.895	8.895	0.0	89	109290	9.52	
52 Cyclohexane	56	8.930	8.930	0.0	94	170772	9.87	
53 Isobutyl alcohol	43	8.966	8.966	0.0	88	118222	229.0	
54 1,1-Dichloropropene	75	9.001	9.001	0.0	90	91672	9.60	
55 Carbon tetrachloride	117	9.025	9.025	0.0	78	101573	9.82	
57 Benzene	78	9.203	9.203	0.0	97	282091	9.82	
59 n-Heptane	43	9.203	9.203	0.0	94	129820	10.0	
58 1,2-Dichloroethane	62	9.227	9.227	0.0	83	120017	9.81	
62 Trichloroethene	95	9.677	9.677	0.0	90	71299	9.94	
64 Methylcyclohexane	83	9.808	9.808	0.0	97	116579	9.71	
65 1,2-Dichloropropane	63	9.879	9.879	0.0	89	82238	9.89	
66 1,4-Dioxane	88	9.950	9.950	0.0	82	17461	199.8	
67 Dibromomethane	93	10.021	10.021	0.0	86	45338	9.94	
68 Dichlorobromomethane	83	10.081	10.081	0.0	84	93232	9.61	
69 2-Chloroethyl vinyl ether	63	10.199	10.199	0.0	86	45499	9.68	
72 cis-1,3-Dichloropropene	75	10.401	10.401	0.0	80	106684	10.2	
73 4-Methyl-2-pentanone (MIBK)	43	10.436	10.436	0.0	98	440733	49.8	
74 Toluene	92	10.662	10.662	0.0	93	168390	9.81	
75 Ethyl methacrylate	69	10.733	10.733	0.0	92	77711	9.79	
77 trans-1,3-Dichloropropene	75	10.816	10.816	0.0	93	93586	10.2	
79 1,1,2-Trichloroethane	83	10.994	10.994	0.0	90	53381	10.3	
80 2-Hexanone	43	11.077	11.077	0.0	98	297888	50.6	
81 Tetrachloroethene	166	11.112	11.112	0.0	90	75518	10.0	
82 1,3-Dichloropropane	76	11.136	11.136	0.0	95	112017	10.2	
83 Chlorodibromomethane	129	11.361	11.361	0.0	85	69476	9.70	
84 Ethylene Dibromide	107	11.492	11.492	0.0	95	60745	9.72	
88 Ethylbenzene	91	11.824	11.824	0.0	92	319501	9.75	
87 Chlorobenzene	112	11.824	11.824	0.0	83	192062	9.97	
89 1,1,1,2-Tetrachloroethane	131	11.859	11.859	0.0	76	69006	9.76	
90 m-Xylene & p-Xylene	106	11.907	11.907	0.0	0	125703	10.0	
91 o-Xylene	106	12.251	12.251	0.0	92	120367	10.1	
92 Styrene	104	12.263	12.263	0.0	89	188531	9.78	
94 Isopropylbenzene	105	12.523	12.523	0.0	95	314723	9.86	
95 Bromoform	173	12.547	12.547	0.0	95	43847	9.90	
97 1,1,2,2-Tetrachloroethane	83	12.820	12.820	0.0	85	84619	9.88	
98 trans-1,4-Dichloro-2-butene	53	12.844	12.844	0.0	63	16673	9.34	
99 N-Propylbenzene	91	12.867	12.867	0.0	98	379606	9.83	
100 1,2,3-Trichloropropane	110	12.903	12.903	0.0	85	26002	10.1	
101 Bromobenzene	156	12.927	12.927	0.0	81	81848	10.1	
102 1,3,5-Trimethylbenzene	105	12.986	12.986	0.0	83	261072	9.73	
103 2-Chlorotoluene	126	13.045	13.045	0.0	94	76727	9.78	
105 4-Chlorotoluene	126	13.128	13.128	0.0	99	78891	9.97	
106 tert-Butylbenzene	134	13.318	13.318	0.0	92	54941	9.77	
107 1,2,4-Trimethylbenzene	105	13.354	13.354	0.0	98	280603	9.95	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	13.520	13.520	0.0	93	335516	9.88	
110 4-Isopropyltoluene	119	13.614	13.614	0.0	96	284004	9.83	
111 1,3-Dichlorobenzene	146	13.757	13.757	0.0	97	159236	9.89	
113 1,4-Dichlorobenzene	146	13.840	13.840	0.0	93	166226	10.0	
115 n-Butylbenzene	91	14.029	14.029	0.0	97	262926	9.78	
116 1,2-Dichlorobenzene	146	14.255	14.255	0.0	95	155977	9.96	
117 1,2-Dibromo-3-Chloropropane	75	15.144	15.144	0.0	52	16441	9.75	
119 1,2,4-Trichlorobenzene	180	16.176	16.176	0.0	92	114871	9.73	
120 Hexachlorobutadiene	225	16.271	16.271	0.0	86	48218	10.4	
121 Naphthalene	128	16.615	16.615	0.0	96	272043	9.71	
122 1,2,3-Trichlorobenzene	180	16.982	16.982	0.0	92	111300	9.83	
S 123 Total BTEX	1				0		49.5	
S 124 Xylenes, Total	1				0		20.1	
S 125 1,2-Dichloroethene, Total	1				0		19.4	
S 126 1,3-Dichloropropene, Total	1				0		20.4	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36635.D

Injection Date: 01-Feb-2014 03:09:30

Instrument ID: HP5973C

Operator ID: RAL

Lims ID: IC 3

Lab Sample ID:

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

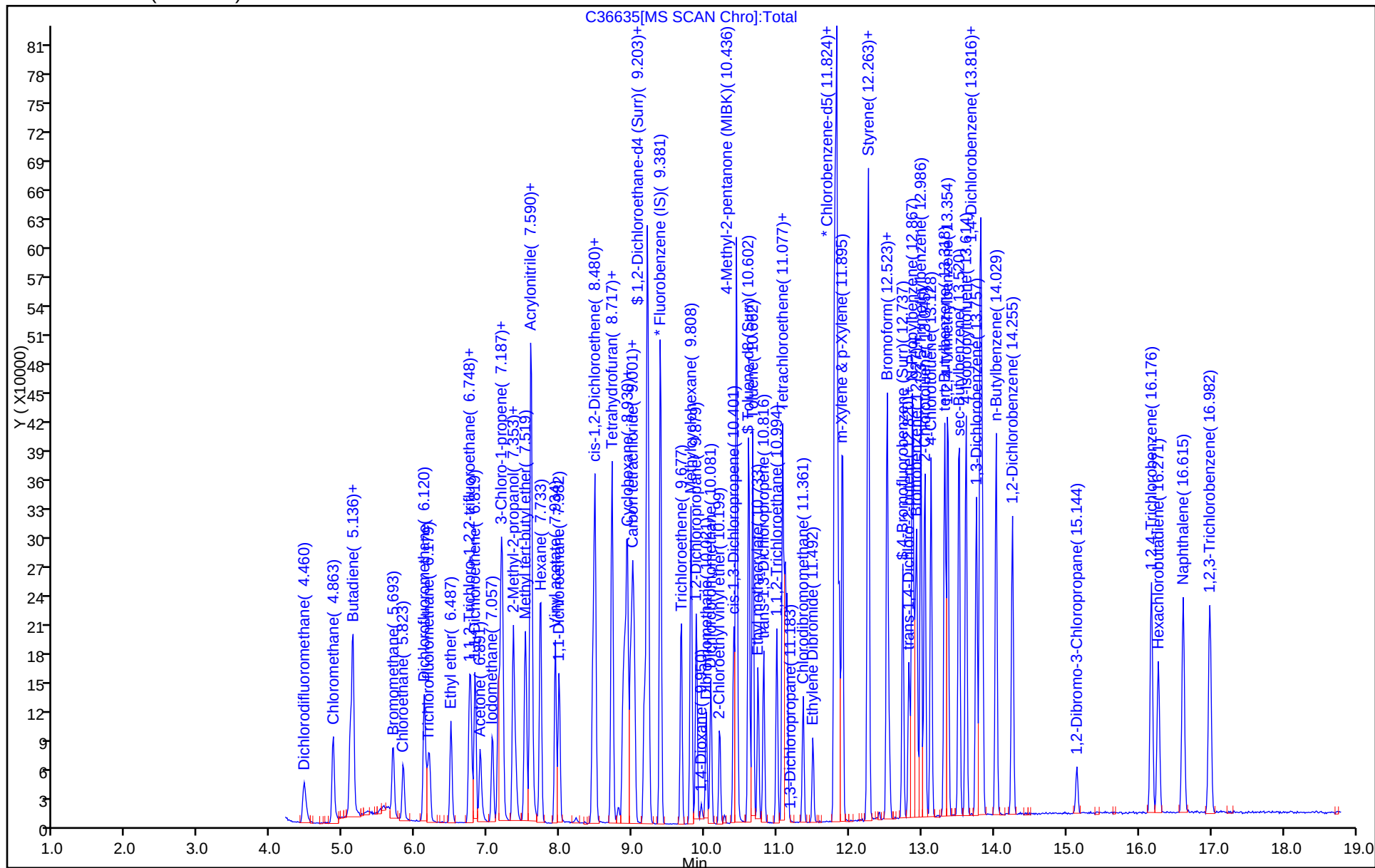
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36636.D
 Lims ID: ICIS 4 Lab Sample ID:
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 01-Feb-2014 03:34:30 ALS Bottle#: 6 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 4
 Misc. Info.: 480-0029209-010
 Operator ID: RAL Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Feb-2014 10:08:20 Calib Date: 01-Feb-2014 04:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36638.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: Hilll

Date: 04-Feb-2014 10:08:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.381	9.381	0.0	97	435478	25.0	
* 2 Chlorobenzene-d5	82	11.788	11.788	0.0	91	185095	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.804	13.804	0.0	92	175625	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	8.859	8.859	0.0	53	104731	28.7	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.167	9.167	0.0	0	71505	28.4	
\$ 5 Toluene-d8 (Surr)	98	10.602	10.602	0.0	94	377064	28.6	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	85	113206	28.7	
10 Dichlorodifluoromethane	85	4.460	4.460	0.0	84	207989	25.6	
12 Chloromethane	50	4.863	4.863	0.0	89	295255	24.1	
13 Vinyl chloride	62	5.100	5.100	0.0	84	260346	24.6	
151 Butadiene	54	5.136	5.136	0.0	92	282387	25.0	
14 Bromomethane	94	5.693	5.693	0.0	91	148959	24.2	
15 Chloroethane	64	5.835	5.835	0.0	94	156379	24.7	
16 Dichlorofluoromethane	67	6.120	6.120	0.0	83	389162	24.4	
17 Trichlorofluoromethane	101	6.191	6.191	0.0	84	296455	25.0	
18 Ethyl ether	59	6.487	6.487	0.0	97	185510	25.3	
20 Acrolein	56	6.736	6.736	0.0	95	171586	129.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.760	6.760	0.0	86	185233	25.1	
22 1,1-Dichloroethene	96	6.819	6.819	0.0	81	166855	25.1	
23 Acetone	43	6.891	6.891	0.0	96	340388	123.8	
25 Iodomethane	142	7.057	7.057	0.0	99	300695	24.7	
26 Carbon disulfide	76	7.140	7.140	0.0	99	618898	24.9	
27 Methyl acetate	43	7.175	7.175	0.0	99	873974	127.3	
28 3-Chloro-1-propene	41	7.199	7.199	0.0	61	369406	25.0	
30 Methylene Chloride	84	7.353	7.353	0.0	93	192274	24.0	
31 2-Methyl-2-propanol	59	7.377	7.377	0.0	96	273829	250.3	
32 Methyl tert-butyl ether	73	7.519	7.519	0.0	93	532768	24.8	
34 trans-1,2-Dichloroethene	96	7.590	7.590	0.0	87	181166	24.5	
33 Acrylonitrile	53	7.602	7.602	0.0	98	873353	251.5	
35 Hexane	57	7.733	7.733	0.0	93	323931	25.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
37 Vinyl acetate	43	7.934	7.934	0.0	97	852520	50.6	
39 1,1-Dichloroethane	63	7.982	7.982	0.0	85	380355	24.6	
43 2-Butanone (MEK)	43	8.444	8.444	0.0	98	510054	128.1	
45 cis-1,2-Dichloroethene	96	8.480	8.480	0.0	76	197693	24.8	
44 2,2-Dichloropropane	77	8.480	8.480	0.0	86	272364	24.6	
48 Chlorobromomethane	128	8.705	8.705	0.0	84	100583	25.0	
49 Tetrahydrofuran	42	8.717	8.717	0.0	65	142264	46.0	
50 Chloroform	83	8.717	8.717	0.0	83	322844	24.6	
51 1,1,1-Trichloroethane	97	8.895	8.895	0.0	90	284943	25.0	
52 Cyclohexane	56	8.930	8.930	0.0	94	440675	25.6	
53 Isobutyl alcohol	43	8.966	8.966	0.0	89	334239	650.7	
54 1,1-Dichloropropene	75	9.001	9.001	0.0	90	235939	24.8	
55 Carbon tetrachloride	117	9.025	9.025	0.0	78	252647	24.6	
57 Benzene	78	9.203	9.203	0.0	97	698221	24.4	
59 n-Heptane	43	9.215	9.215	0.0	95	327518	25.4	
58 1,2-Dichloroethane	62	9.227	9.227	0.0	85	299655	24.6	
62 Trichloroethene	95	9.677	9.677	0.0	91	178448	25.0	
64 Methylcyclohexane	83	9.808	9.808	0.0	98	306009	25.6	
65 1,2-Dichloropropane	63	9.879	9.879	0.0	89	206806	25.0	
66 1,4-Dioxane	88	9.950	9.950	0.0	91	43809	482.3	
67 Dibromomethane	93	10.021	10.021	0.0	87	112568	24.8	
68 Dichlorobromomethane	83	10.081	10.081	0.0	85	239458	24.8	
69 2-Chloroethyl vinyl ether	63	10.199	10.199	0.0	91	122136	26.1	
72 cis-1,3-Dichloropropene	75	10.401	10.401	0.0	86	275430	26.4	
73 4-Methyl-2-pentanone (MIBK)	43	10.436	10.436	0.0	98	1140251	129.4	
74 Toluene	92	10.662	10.662	0.0	95	428502	25.1	
75 Ethyl methacrylate	69	10.733	10.733	0.0	94	209441	26.5	
77 trans-1,3-Dichloropropene	75	10.816	10.816	0.0	92	244785	26.9	
79 1,1,2-Trichloroethane	83	10.994	10.994	0.0	90	130919	25.3	
80 2-Hexanone	43	11.077	11.077	0.0	98	765306	130.5	
81 Tetrachloroethene	166	11.112	11.112	0.0	92	188232	25.0	
82 1,3-Dichloropropane	76	11.136	11.136	0.0	94	274351	25.2	
83 Chlorodibromomethane	129	11.361	11.361	0.0	88	180124	25.3	
84 Ethylene Dibromide	107	11.492	11.492	0.0	97	154468	24.8	
88 Ethylbenzene	91	11.824	11.824	0.0	96	817954	25.1	
87 Chlorobenzene	112	11.824	11.824	0.0	85	478970	25.0	
89 1,1,1,2-Tetrachloroethane	131	11.859	11.859	0.0	72	175776	25.0	
90 m-Xylene & p-Xylene	106	11.907	11.907	0.0	0	316938	25.4	
91 o-Xylene	106	12.251	12.251	0.0	92	309107	25.9	
92 Styrene	104	12.262	12.262	0.0	84	501600	26.1	
94 Isopropylbenzene	105	12.523	12.523	0.0	96	814462	25.9	
95 Bromoform	173	12.547	12.547	0.0	93	113069	25.6	
97 1,1,2,2-Tetrachloroethane	83	12.820	12.820	0.0	88	212112	25.1	
98 trans-1,4-Dichloro-2-butene	53	12.844	12.844	0.0	75	53367	22.6	
99 N-Propylbenzene	91	12.867	12.867	0.0	98	970163	25.5	
100 1,2,3-Trichloropropane	110	12.903	12.903	0.0	83	65190	25.7	
101 Bromobenzene	156	12.927	12.927	0.0	80	204561	25.5	
102 1,3,5-Trimethylbenzene	105	12.986	12.986	0.0	85	680282	25.7	
103 2-Chlorotoluene	126	13.045	13.045	0.0	95	190431	24.6	
105 4-Chlorotoluene	126	13.128	13.128	0.0	99	198205	25.4	
106 tert-Butylbenzene	134	13.318	13.318	0.0	89	142941	25.8	
107 1,2,4-Trimethylbenzene	105	13.353	13.353	0.0	99	720486	25.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	13.519	13.519	0.0	95	865340	25.8	
110 4-Isopropyltoluene	119	13.614	13.614	0.0	97	735279	25.8	
111 1,3-Dichlorobenzene	146	13.757	13.757	0.0	97	392164	24.7	
113 1,4-Dichlorobenzene	146	13.840	13.840	0.0	94	403238	24.6	
115 n-Butylbenzene	91	14.029	14.029	0.0	98	682237	25.7	
116 1,2-Dichlorobenzene	146	14.255	14.255	0.0	95	391269	25.3	
117 1,2-Dibromo-3-Chloropropane	75	15.144	15.144	0.0	62	40734	24.5	
119 1,2,4-Trichlorobenzene	180	16.176	16.176	0.0	93	290784	25.0	
120 Hexachlorobutadiene	225	16.271	16.271	0.0	93	119678	26.2	
121 Naphthalene	128	16.615	16.615	0.0	97	714234	25.8	
122 1,2,3-Trichlorobenzene	180	16.982	16.982	0.0	91	280993	25.1	
S 125 1,2-Dichloroethene, Total	1				0		49.3	
S 126 1,3-Dichloropropene, Total	1				0		53.3	
S 123 Total BTEX	1				0		125.9	
S 124 Xylenes, Total	1				0		51.3	

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36636.D

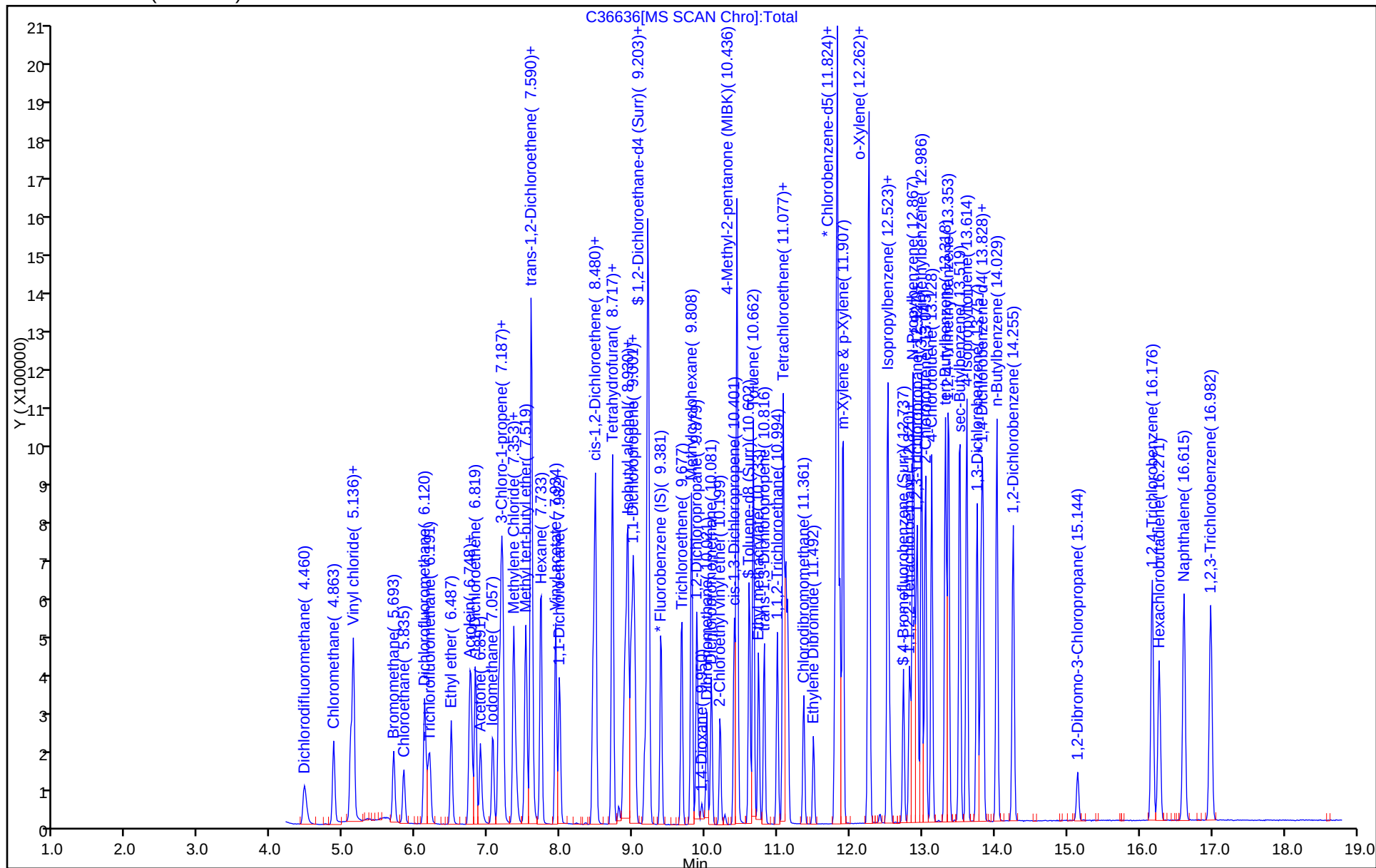
Operator ID: RAL

Worklist Smp#: 10

ALS Bottle#: 6

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36637.D
 Lims ID: IC 5 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 01-Feb-2014 03:59:30 ALS Bottle#: 7 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 5
 Misc. Info.: 480-0029209-011
 Operator ID: RAL Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Feb-2014 10:03:58 Calib Date: 01-Feb-2014 04:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36638.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: HillL

Date: 04-Feb-2014 10:03:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.393	9.381	0.012	98	421911	25.0	
* 2 Chlorobenzene-d5	82	11.788	11.788	0.0	91	184666	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.804	13.804	0.0	94	174639	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	8.871	8.859	0.012	54	98995	28.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.168	9.167	0.001	0	68316	28.0	
\$ 5 Toluene-d8 (Surr)	98	10.602	10.602	0.0	95	365706	27.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	85	107757	27.4	
10 Dichlorodifluoromethane	85	4.460	4.460	0.0	86	392624	49.9	
12 Chloromethane	50	4.875	4.863	0.012	89	561601	47.3	
13 Vinyl chloride	62	5.100	5.100	0.0	83	506991	49.5	
151 Butadiene	54	5.148	5.136	0.012	91	525487	48.0	
14 Bromomethane	94	5.705	5.693	0.012	92	285771	47.8	
15 Chloroethane	64	5.835	5.835	0.0	94	301326	49.1	
16 Dichlorofluoromethane	67	6.120	6.120	0.0	83	753454	48.8	
17 Trichlorofluoromethane	101	6.191	6.191	0.0	86	582635	50.8	
18 Ethyl ether	59	6.488	6.487	0.001	98	367500	51.8	
20 Acrolein	56	6.737	6.736	0.001	99	352450	275.1	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.760	6.760	0.0	88	359016	50.2	
22 1,1-Dichloroethene	96	6.831	6.819	0.012	83	327149	50.7	
23 Acetone	43	6.891	6.891	0.0	99	678266	254.7	
25 Iodomethane	142	7.069	7.057	0.012	99	591966	50.1	
26 Carbon disulfide	76	7.152	7.140	0.012	100	1208384	50.2	
27 Methyl acetate	43	7.175	7.175	0.0	99	1748992	262.9	
28 3-Chloro-1-propene	41	7.199	7.199	0.0	63	735092	51.4	
30 Methylene Chloride	84	7.353	7.353	0.0	92	376328	48.6	
31 2-Methyl-2-propanol	59	7.377	7.377	0.0	97	574065	541.6	
32 Methyl tert-butyl ether	73	7.519	7.519	0.0	94	1076428	51.7	
34 trans-1,2-Dichloroethene	96	7.590	7.590	0.0	88	356952	49.8	
33 Acrylonitrile	53	7.602	7.602	0.0	98	1751384	520.6	
35 Hexane	57	7.733	7.733	0.0	94	604998	48.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
37 Vinyl acetate	43	7.934	7.934	0.0	97	1750872	107.3	
39 1,1-Dichloroethane	63	7.982	7.982	0.0	85	736987	49.2	
43 2-Butanone (MEK)	43	8.444	8.444	0.0	98	1047471	271.6	
44 2,2-Dichloropropane	77	8.480	8.480	0.0	85	531970	49.6	
45 cis-1,2-Dichloroethene	96	8.480	8.480	0.0	76	380489	49.2	
48 Chlorobromomethane	128	8.717	8.705	0.012	87	194576	50.0	
49 Tetrahydrofuran	42	8.717	8.717	0.0	68	288216	96.1	
50 Chloroform	83	8.717	8.717	0.0	84	621996	48.8	
51 1,1,1-Trichloroethane	97	8.895	8.895	0.0	91	551052	49.8	
52 Cyclohexane	56	8.930	8.930	0.0	94	842738	50.5	
53 Isobutyl alcohol	43	8.966	8.966	0.0	94	681538	1369.5	
54 1,1-Dichloropropene	75	9.002	9.001	0.001	91	460658	50.1	
55 Carbon tetrachloride	117	9.025	9.025	0.0	70	496901	49.8	
57 Benzene	78	9.203	9.203	0.0	97	1349057	48.7	
59 n-Heptane	43	9.215	9.215	0.0	95	600595	48.2	
58 1,2-Dichloroethane	62	9.227	9.227	0.0	89	585654	49.7	
62 Trichloroethene	95	9.677	9.677	0.0	92	345054	49.9	
64 Methylcyclohexane	83	9.808	9.808	0.0	99	586933	50.7	
65 1,2-Dichloropropane	63	9.879	9.879	0.0	91	404803	50.5	
66 1,4-Dioxane	88	9.950	9.950	0.0	95	94641	1028.1	
67 Dibromomethane	93	10.021	10.021	0.0	87	223133	50.7	
68 Dichlorobromomethane	83	10.081	10.081	0.001	88	478688	51.2	
69 2-Chloroethyl vinyl ether	63	10.199	10.199	0.0	93	251206	55.5	
72 cis-1,3-Dichloropropene	75	10.401	10.401	0.0	87	547884	54.2	
73 4-Methyl-2-pentanone (MIBK)	43	10.436	10.436	0.0	98	2312423	263.0	
74 Toluene	92	10.662	10.662	0.0	97	829285	48.6	
75 Ethyl methacrylate	69	10.733	10.733	0.0	94	437171	55.5	
77 trans-1,3-Dichloropropene	75	10.816	10.816	0.0	94	489121	53.8	
79 1,1,2-Trichloroethane	83	10.994	10.994	0.0	90	254831	49.4	
80 2-Hexanone	43	11.077	11.077	0.0	98	1578853	269.9	
81 Tetrachloroethene	166	11.112	11.112	0.0	92	360531	48.0	
82 1,3-Dichloropropane	76	11.136	11.136	0.0	96	540237	49.7	
83 Chlorodibromomethane	129	11.361	11.361	0.0	88	365637	51.4	
84 Ethylene Dibromide	107	11.492	11.492	0.0	98	308514	49.7	
88 Ethylbenzene	91	11.824	11.824	0.0	93	1606968	49.4	
87 Chlorobenzene	112	11.824	11.824	0.0	86	934656	48.8	
89 1,1,1,2-Tetrachloroethane	131	11.859	11.859	0.0	75	347928	49.5	
90 m-Xylene & p-Xylene	106	11.907	11.907	0.0	0	624683	50.2	
91 o-Xylene	106	12.251	12.251	0.0	92	606275	51.0	
92 Styrene	104	12.263	12.262	0.001	91	1010641	52.8	
94 Isopropylbenzene	105	12.523	12.523	0.0	97	1598334	51.0	
95 Bromoform	173	12.547	12.547	0.0	94	235684	53.5	
97 1,1,2,2-Tetrachloroethane	83	12.820	12.820	0.0	89	422434	50.3	
98 trans-1,4-Dichloro-2-butene	53	12.844	12.844	0.0	76	121708	47.5	
99 N-Propylbenzene	91	12.867	12.867	0.0	98	1927448	50.9	
100 1,2,3-Trichloropropane	110	12.903	12.903	0.0	74	130806	51.9	
101 Bromobenzene	156	12.927	12.927	0.0	79	401132	50.3	
102 1,3,5-Trimethylbenzene	105	12.986	12.986	0.0	84	1365850	51.9	
103 2-Chlorotoluene	126	13.045	13.045	0.0	95	380104	49.4	
105 4-Chlorotoluene	126	13.128	13.128	0.0	99	388245	50.0	
106 tert-Butylbenzene	134	13.318	13.318	0.0	93	284641	51.6	
107 1,2,4-Trimethylbenzene	105	13.354	13.353	0.001	99	1425484	51.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	13.520	13.519	0.001	95	1718708	51.6	
110 4-Isopropyltoluene	119	13.614	13.614	0.0	97	1483383	52.3	
111 1,3-Dichlorobenzene	146	13.757	13.757	0.0	97	770681	48.8	
113 1,4-Dichlorobenzene	146	13.840	13.840	0.0	93	787398	48.3	
115 n-Butylbenzene	91	14.030	14.029	0.001	98	1351347	51.2	
116 1,2-Dichlorobenzene	146	14.255	14.255	0.0	95	762044	49.6	
117 1,2-Dibromo-3-Chloropropane	75	15.144	15.144	0.0	69	85566	51.7	
119 1,2,4-Trichlorobenzene	180	16.176	16.176	0.0	90	581569	50.2	
120 Hexachlorobutadiene	225	16.271	16.271	0.0	94	239316	52.7	
121 Naphthalene	128	16.615	16.615	0.0	97	1494815	54.4	
122 1,2,3-Trichlorobenzene	180	16.982	16.982	0.0	93	568923	51.2	
S 123 Total BTEX	1				0		247.9	
S 124 Xylenes, Total	1				0		101.2	
S 125 1,2-Dichloroethene, Total	1				0		99.0	
S 126 1,3-Dichloropropene, Total	1				0		108.0	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36637.D

Injection Date: 01-Feb-2014 03:59:30

Instrument ID: HP5973C

Operator ID: RAL

Lims ID: IC 5

Lab Sample ID:

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

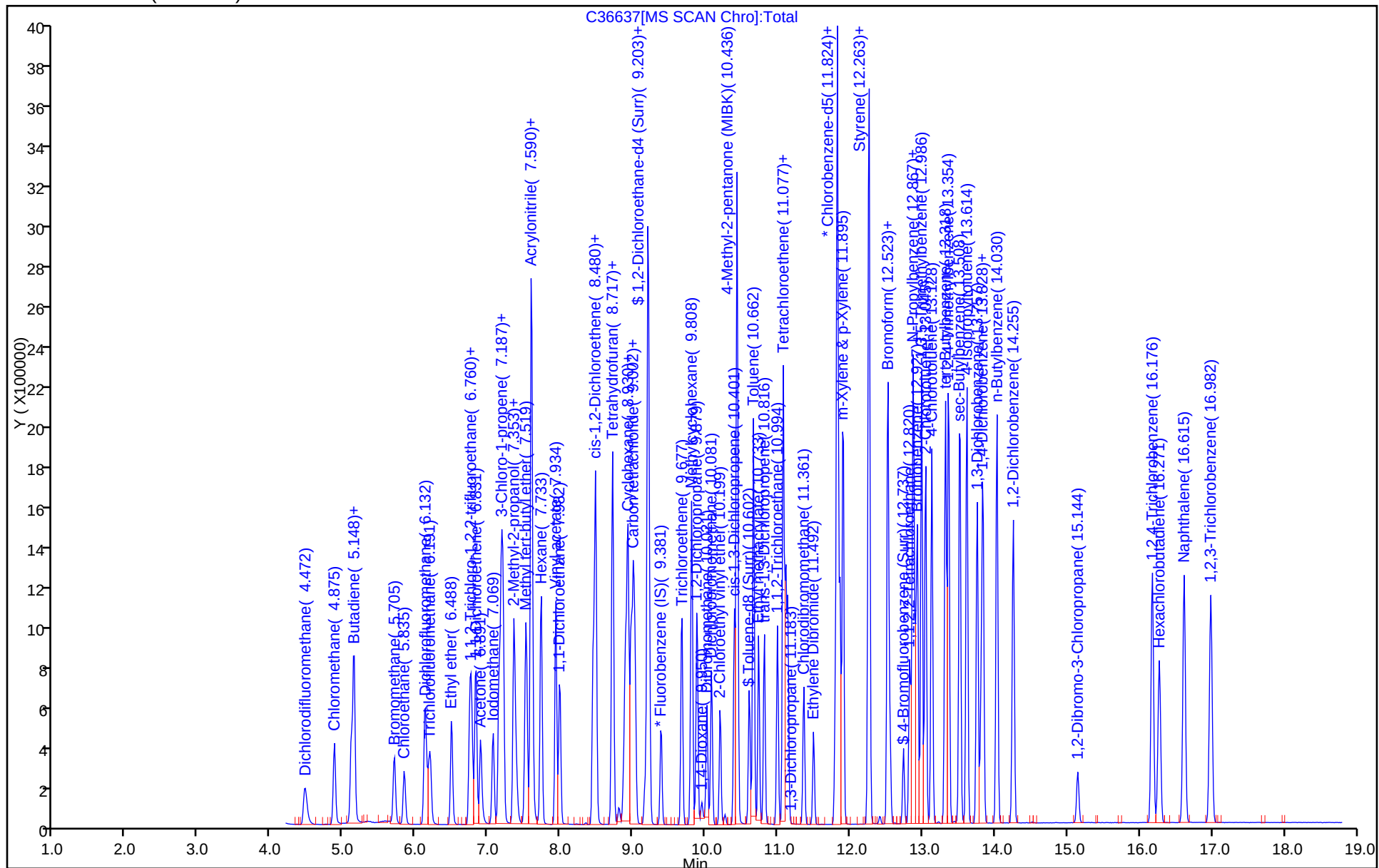
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36638.D
 Lims ID: IC 6 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 01-Feb-2014 04:24:30 ALS Bottle#: 8 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0029209-012
 Operator ID: RAL Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Feb-2014 10:04:46 Calib Date: 01-Feb-2014 04:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36638.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: HillL

Date: 04-Feb-2014 10:04:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.393	9.381	0.012	98	421078	25.0	
* 2 Chlorobenzene-d5	82	11.788	11.788	0.0	91	182026	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.804	13.804	0.0	92	174683	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	8.871	8.859	0.012	54	94694	26.8	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.168	9.167	0.001	0	64872	26.7	
\$ 5 Toluene-d8 (Surr)	98	10.614	10.602	0.012	93	343683	26.5	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	85	103407	26.6	
10 Dichlorodifluoromethane	85	4.472	4.460	0.012	86	777620	99.0	
12 Chloromethane	50	4.875	4.863	0.012	89	1098984	92.6	
13 Vinyl chloride	62	5.112	5.100	0.012	84	990751	97.0	
151 Butadiene	54	5.147	5.136	0.011	92	1018472	93.2	
14 Bromomethane	94	5.705	5.693	0.012	92	579340	97.2	
15 Chloroethane	64	5.847	5.835	0.012	94	597735	97.5	
16 Dichlorofluoromethane	67	6.132	6.120	0.012	83	1506086	97.7	
17 Trichlorofluoromethane	101	6.191	6.191	0.0	87	1143742	99.9	
18 Ethyl ether	59	6.488	6.487	0.001	98	732789	103.4	
20 Acrolein	56	6.737	6.736	0.001	99	707629	553.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.760	6.760	0.0	89	729409	102.2	
22 1,1-Dichloroethene	96	6.831	6.819	0.012	81	654560	101.6	
23 Acetone	43	6.891	6.891	0.0	96	1342871	505.2	
25 Iodomethane	142	7.069	7.057	0.012	99	1192497	101.1	
26 Carbon disulfide	76	7.152	7.140	0.012	100	2437507	101.4	
27 Methyl acetate	43	7.175	7.175	0.0	99	3419029	515.0	
28 3-Chloro-1-propene	41	7.211	7.199	0.012	64	1466530	102.7	
30 Methylene Chloride	84	7.353	7.353	0.0	92	732627	94.7	
31 2-Methyl-2-propanol	59	7.377	7.377	0.0	98	1134988	1072.9	
32 Methyl tert-butyl ether	73	7.519	7.519	0.0	94	2174852	104.7	
34 trans-1,2-Dichloroethene	96	7.590	7.590	0.0	87	702860	98.3	
33 Acrylonitrile	53	7.602	7.602	0.0	98	3399288	1012.4	
35 Hexane	57	7.733	7.733	0.0	94	1232619	99.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
37 Vinyl acetate	43	7.934	7.934	0.0	97	3554761	218.3	
39 1,1-Dichloroethane	63	7.994	7.982	0.012	85	1466614	98.1	
43 2-Butanone (MEK)	43	8.444	8.444	0.0	98	2089661	542.8	
45 cis-1,2-Dichloroethene	96	8.492	8.480	0.012	75	767028	99.4	
44 2,2-Dichloropropane	77	8.480	8.480	0.0	89	1075440	100.4	
48 Chlorobromomethane	128	8.717	8.705	0.012	85	390331	100.4	
50 Chloroform	83	8.729	8.717	0.012	84	1244219	97.9	
49 Tetrahydrofuran	42	8.717	8.717	0.0	90	568028	189.7	
51 1,1,1-Trichloroethane	97	8.895	8.895	0.0	91	1113954	100.9	
52 Cyclohexane	56	8.930	8.930	0.0	94	1702961	102.3	
53 Isobutyl alcohol	43	8.966	8.966	0.0	92	1440215	2899.7	
54 1,1-Dichloropropene	75	9.002	9.001	0.001	91	924366	100.6	
55 Carbon tetrachloride	117	9.025	9.025	0.0	70	1012230	101.7	
57 Benzene	78	9.203	9.203	0.0	97	2699631	97.7	
59 n-Heptane	43	9.215	9.215	0.0	94	1226180	98.5	
58 1,2-Dichloroethane	62	9.227	9.227	0.0	89	1167175	99.2	
62 Trichloroethene	95	9.677	9.677	0.0	92	698692	101.2	
64 Methylcyclohexane	83	9.808	9.808	0.0	99	1201802	104.1	
65 1,2-Dichloropropane	63	9.879	9.879	0.0	92	816833	102.1	
66 1,4-Dioxane	88	9.950	9.950	0.0	92	182944	2002.9	
67 Dibromomethane	93	10.021	10.021	0.0	86	445938	101.6	
68 Dichlorobromomethane	83	10.081	10.081	0.001	92	980112	105.0	
69 2-Chloroethyl vinyl ether	63	10.199	10.199	0.0	91	520279	115.1	
72 cis-1,3-Dichloropropene	75	10.401	10.401	0.0	87	1130897	112.1	
73 4-Methyl-2-pentanone (MIBK)	43	10.436	10.436	0.0	98	4617975	532.9	
74 Toluene	92	10.662	10.662	0.0	97	1674383	99.6	
75 Ethyl methacrylate	69	10.733	10.733	0.0	94	914672	117.7	
77 trans-1,3-Dichloropropene	75	10.816	10.816	0.0	94	996664	111.2	
79 1,1,2-Trichloroethane	83	10.994	10.994	0.0	90	516618	101.5	
80 2-Hexanone	43	11.077	11.077	0.0	97	3142966	545.2	
81 Tetrachloroethene	166	11.112	11.112	0.0	91	731853	98.9	
82 1,3-Dichloropropane	76	11.136	11.136	0.0	91	1080014	100.9	
83 Chlorodibromomethane	129	11.361	11.361	0.0	88	748457	106.7	
84 Ethylene Dibromide	107	11.492	11.492	0.0	97	623611	101.9	
88 Ethylbenzene	91	11.824	11.824	0.0	93	3257459	101.5	
87 Chlorobenzene	112	11.824	11.824	0.0	85	1874977	99.4	
89 1,1,1,2-Tetrachloroethane	131	11.859	11.859	0.0	77	706159	102.0	
90 m-Xylene & p-Xylene	106	11.907	11.907	0.0	0	1257469	102.5	
91 o-Xylene	106	12.251	12.251	0.0	92	1234431	105.3	
92 Styrene	104	12.263	12.262	0.001	88	2063290	109.3	
94 Isopropylbenzene	105	12.523	12.523	0.0	97	3283309	104.8	
95 Bromoform	173	12.547	12.547	0.0	94	492529	113.5	
97 1,1,2,2-Tetrachloroethane	83	12.820	12.820	0.0	87	843486	100.4	
98 trans-1,4-Dichloro-2-butene	53	12.844	12.844	0.0	82	271691	101.8	
99 N-Propylbenzene	91	12.867	12.867	0.0	98	3915646	103.3	
100 1,2,3-Trichloropropane	110	12.903	12.903	0.0	70	264084	104.7	
101 Bromobenzene	156	12.927	12.927	0.0	79	801685	100.4	
102 1,3,5-Trimethylbenzene	105	12.986	12.986	0.0	84	2797145	106.2	
103 2-Chlorotoluene	126	13.045	13.045	0.0	95	769355	99.9	
105 4-Chlorotoluene	126	13.128	13.128	0.0	99	781333	100.6	
106 tert-Butylbenzene	134	13.318	13.318	0.0	93	586829	106.3	
107 1,2,4-Trimethylbenzene	105	13.354	13.353	0.001	99	2895574	104.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	13.520	13.519	0.001	95	3511272	105.3	
110 4-Isopropyltoluene	119	13.614	13.614	0.0	95	3023340	106.6	
111 1,3-Dichlorobenzene	146	13.757	13.757	0.0	97	1548222	98.0	
113 1,4-Dichlorobenzene	146	13.840	13.840	0.0	93	1581563	97.1	
115 n-Butylbenzene	91	14.030	14.029	0.001	98	2766816	104.9	
116 1,2-Dichlorobenzene	146	14.255	14.255	0.0	95	1523785	99.1	
117 1,2-Dibromo-3-Chloropropane	75	15.144	15.144	0.0	77	175813	106.2	
119 1,2,4-Trichlorobenzene	180	16.176	16.176	0.0	93	1179881	101.9	
120 Hexachlorobutadiene	225	16.271	16.271	0.0	95	491084	108.0	
121 Naphthalene	128	16.615	16.615	0.0	98	3018774	109.8	
122 1,2,3-Trichlorobenzene	180	16.982	16.982	0.0	92	1145743	103.1	
S 123 Total BTEX	1				0		506.6	
S 124 Xylenes, Total	1				0		207.8	
S 125 1,2-Dichloroethene, Total	1				0		197.7	
S 126 1,3-Dichloropropene, Total	1				0		223.3	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36638.D

Injection Date: 01-Feb-2014 04:24:30

Instrument ID: HP5973C

Operator ID: RAL

Lims ID: IC 6

Lab Sample ID:

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

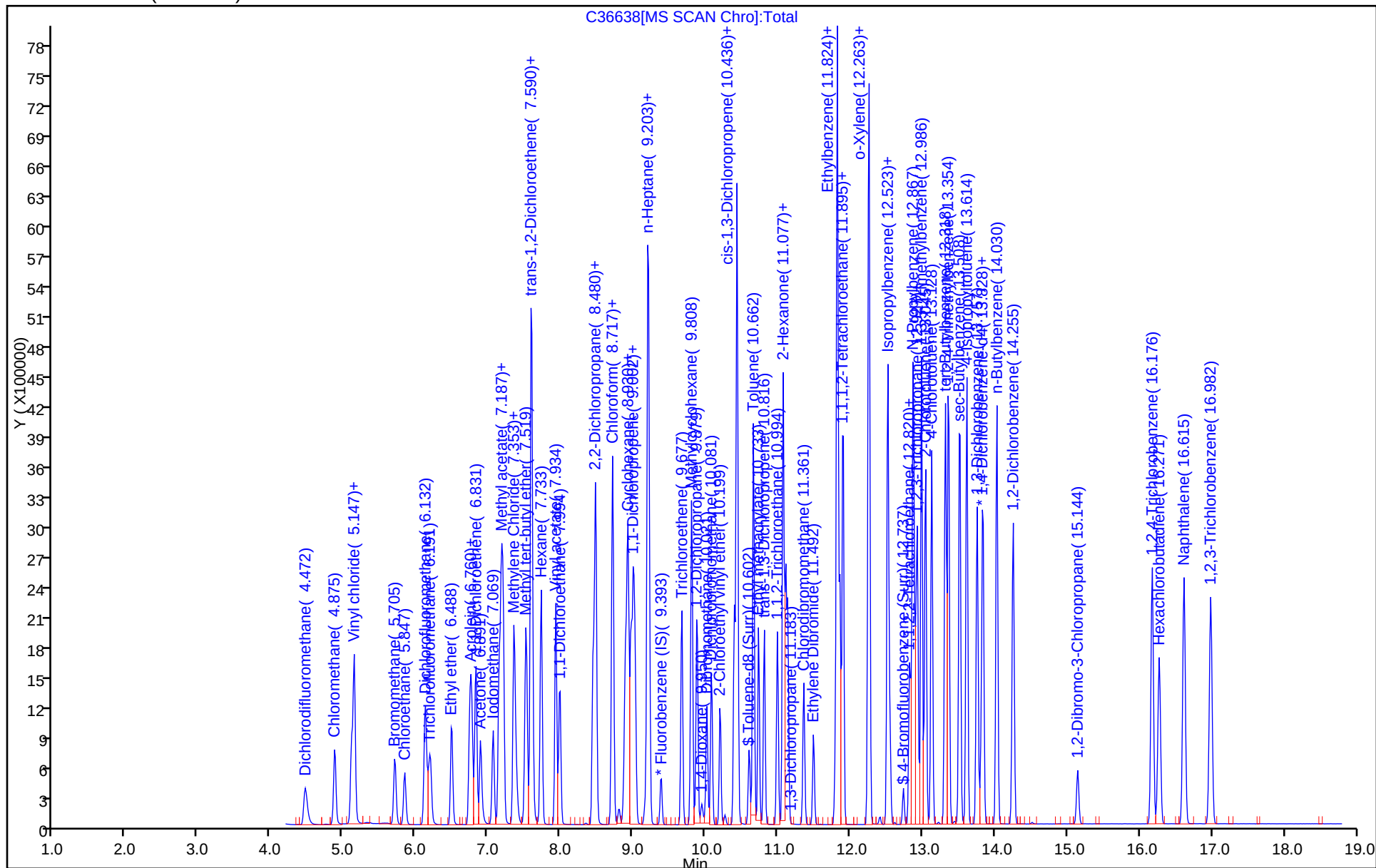
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-164965/2 Calibration Date: 02/07/2014 10:51
 Instrument ID: HP5973C Calib Start Date: 02/01/2014 01:53
 GC Column: ZB-624 (30) ID: 0.53 (mm) Calib End Date: 02/01/2014 04:24
 Lab File ID: C36817.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.4663	0.4018	0.1000	21.5	25.0	-13.8	20.0
Chloromethane	Ave	0.7043	0.6374	0.1000	22.6	25.0	-9.5	20.0
Vinyl chloride	Ave	0.6067	0.5660	0.1000	23.3	25.0	-6.7	20.0
Butadiene	Ave	0.6490	0.5691		21.9	25.0	-12.3	20.0
Bromomethane	Ave	0.3540	0.3298	0.1000	23.3	25.0	-6.8	20.0
Chloroethane	Ave	0.3640	0.3353	0.1000	23.0	25.0	-7.9	20.0
Dichlorofluoromethane	Ave	0.9156	0.8626		23.6	25.0	-5.8	20.0
Trichlorofluoromethane	Ave	0.6800	0.6296	0.1000	23.1	25.0	-7.4	20.0
Ethyl ether	Ave	0.4208	0.4457		26.5	25.0	5.9	20.0
Acrolein	Ave	0.0759	0.0865		142	125	14.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4236	0.4424	0.1000	26.1	25.0	4.4	20.0
1,1-Dichloroethene	Ave	0.3824	0.3888	0.1000	25.4	25.0	1.7	20.0
Acetone	Ave	0.1578	0.1822	0.1000	144	125	15.4	20.0
Iodomethane	Ave	0.7002	0.7222		25.8	25.0	3.1	20.0
Carbon disulfide	Ave	1.427	1.459	0.1000	25.6	25.0	2.2	20.0
Methyl acetate	Ave	0.3941	0.4384	0.1000	139	125	11.2	20.0
Allyl chloride	Ave	0.8477	0.9075		26.8	25.0	7.1	20.0
Methylene Chloride	Ave	0.4593	0.4626	0.1000	25.2	25.0	0.7	20.0
2-Methyl-2-propanol	Ave	0.0628	0.0609		242	250	-3.0	20.0
Methyl tert-butyl ether	Ave	1.233	1.323	0.1000	26.8	25.0	7.3	20.0
trans-1,2-Dichloroethene	Ave	0.4245	0.4336	0.1000	25.5	25.0	2.1	20.0
Acrylonitrile	Ave	0.1994	0.2126		267	250	6.6	20.0
Hexane	Ave	0.7332	0.7205		24.6	25.0	-1.7	20.0
Vinyl acetate	Ave	0.9669	1.062		54.9	50.0	9.8	20.0
1,1-Dichloroethane	Ave	0.8873	0.9011	0.2000	25.4	25.0	1.6	20.0
2-Butanone (MEK)	Ave	0.2286	0.2552	0.1000	140	125	11.7	20.0
2,2-Dichloropropane	Ave	0.6359	0.6857		27.0	25.0	7.8	20.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4551	0.1000	24.8	25.0	-0.7	20.0
Chlorobromomethane	Ave	0.2308	0.2348		25.4	25.0	1.7	20.0
Chloroform	Ave	0.7548	0.7720	0.2000	25.6	25.0	2.3	20.0
Tetrahydrofuran	Ave	0.1777	0.1765		49.7	50.0	-0.7	20.0
1,1,1-Trichloroethane	Ave	0.6554	0.6743	0.1000	25.7	25.0	2.9	20.0
Cyclohexane	Ave	0.9886	0.9555	0.1000	24.2	25.0	-3.3	20.0
Isobutyl alcohol	Ave	0.0295	0.0293		622	625	-0.5	20.0
1,1-Dichloropropene	Ave	0.5453	0.5423		24.9	25.0	-0.6	20.0
Carbon tetrachloride	Ave	0.5908	0.5892	0.1000	24.9	25.0	-0.3	20.0
Benzene	Ave	1.640	1.626	0.5000	24.8	25.0	-0.9	20.0
n-Heptane	Ave	0.7389	0.7004		23.7	25.0	-5.2	20.0
1,2-Dichloroethane	Ave	0.6986	0.7230	0.1000	25.9	25.0	3.5	20.0
Trichloroethene	Ave	0.4098	0.4067	0.2000	24.8	25.0	-0.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Lab Sample ID: CCVIS 480-164965/2 Calibration Date: 02/07/2014 10:51

Instrument ID: HP5973C Calib Start Date: 02/01/2014 01:53

GC Column: ZB-624 (30) ID: 0.53 (mm) Calib End Date: 02/01/2014 04:24

Lab File ID: C36817.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.6857	0.6560	0.1000	23.9	25.0	-4.3	20.0
1,2-Dichloropropane	Ave	0.4748	0.4693	0.1000	24.7	25.0	-1.2	20.0
1,4-Dioxane	Lin1		0.0083		341	500	-31.8*	20.0
Dibromomethane	Ave	0.2605	0.2707	0.1000	26.0	25.0	3.9	20.0
Bromodichloromethane	Ave	0.5542	0.5765	0.2000	26.0	25.0	4.0	20.0
2-Chloroethyl vinyl ether	Ave	0.2684	0.2703		25.2	25.0	0.7	20.0
cis-1,3-Dichloropropene	Ave	0.5992	0.6419	0.2000	26.8	25.0	7.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.190	1.230	0.1000	129	125	3.3	20.0
Toluene	Ave	2.308	2.180	0.4000	23.6	25.0	-5.6	20.0
Ethyl methacrylate	Ave	1.067	1.114		26.1	25.0	4.4	20.0
trans-1,3-Dichloropropene	Ave	1.231	1.304	0.1000	26.5	25.0	6.0	20.0
1,1,2-Trichloroethane	Ave	0.6990	0.6885	0.1000	24.6	25.0	-1.5	20.0
2-Hexanone	Ave	0.7918	0.8355	0.1000	132	125	5.5	20.0
Tetrachloroethene	Ave	1.016	0.9569	0.2000	23.5	25.0	-5.8	20.0
1,3-Dichloropropane	Ave	1.470	1.429		24.3	25.0	-2.8	20.0
Dibromochloromethane	Ave	0.9633	0.9663	0.1000	24.6	24.5	0.3	20.0
1,2-Dibromoethane	Ave	0.8403	0.8125		24.2	25.0	-3.3	20.0
Chlorobenzene	Ave	2.591	2.436	0.5000	23.5	25.0	-6.0	20.0
Ethylbenzene	Ave	4.406	4.181	0.1000	23.7	25.0	-5.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.9513	0.9031		23.7	25.0	-5.1	20.0
m,p-Xylene	Ave	1.685	1.602	0.1000	23.8	25.0	-5.0	20.0
o-Xylene	Ave	1.610	1.559	0.3000	24.2	25.0	-3.2	20.0
Styrene	Ave	2.593	2.532	0.3000	24.4	25.0	-2.4	20.0
Isopropylbenzene	Ave	4.483	4.364	0.1000	24.3	25.0	-2.6	20.0
Bromoform	Ave	0.5959	0.5880	0.1000	24.7	25.0	-1.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.203	1.193	0.3000	24.8	25.0	-0.8	20.0
trans-1,4-Dichloro-2-butene	Lin		0.4324		30.8	25.0	23.1*	20.0
N-Propylbenzene	Ave	5.424	5.336		24.6	25.0	-1.6	20.0
1,2,3-Trichloropropane	Ave	0.3609	0.3705		25.7	25.0	2.7	20.0
Bromobenzene	Ave	1.143	1.121		24.5	25.0	-1.9	20.0
1,3,5-Trimethylbenzene	Ave	3.770	3.689		24.5	25.0	-2.1	20.0
2-Chlorotoluene	Ave	1.102	1.042		23.6	25.0	-5.5	20.0
4-Chlorotoluene	Ave	1.112	1.076		24.2	25.0	-3.2	20.0
tert-Butylbenzene	Ave	0.7899	0.7589		24.0	25.0	-3.9	20.0
1,2,4-Trimethylbenzene	Ave	3.960	3.879		24.5	25.0	-2.0	20.0
sec-Butylbenzene	Ave	4.771	4.615		24.2	25.0	-3.3	20.0
p-Isopropyltoluene	Ave	4.060	3.940		24.3	25.0	-2.9	20.0
1,3-Dichlorobenzene	Ave	2.261	2.180	0.6000	24.1	25.0	-3.6	20.0
1,4-Dichlorobenzene	Ave	2.332	2.204	0.5000	23.6	25.0	-5.5	20.0
n-Butylbenzene	Ave	3.776	3.678		24.4	25.0	-2.6	20.0
1,2-Dichlorobenzene	Ave	2.200	2.099	0.4000	23.9	25.0	-4.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-164965/2 Calibration Date: 02/07/2014 10:51
 Instrument ID: HP5973C Calib Start Date: 02/01/2014 01:53
 GC Column: ZB-624 (30) ID: 0.53 (mm) Calib End Date: 02/01/2014 04:24
 Lab File ID: C36817.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2369	0.2298	0.0500	24.2	25.0	-3.0	20.0
1,2,4-Trichlorobenzene	Ave	1.658	1.530	0.2000	23.1	25.0	-7.7	20.0
Hexachlorobutadiene	Ave	0.6505	0.6214		23.9	25.0	-4.5	20.0
Naphthalene	Ave	3.934	3.788		24.1	25.0	-3.7	20.0
1,2,3-Trichlorobenzene	Ave	1.591	1.456		22.9	25.0	-8.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2097	0.2424		28.9	25.0	15.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1444	0.1662		28.8	25.0	15.0	20.0
Toluene-d8 (Surr)	Ave	1.780	1.957		27.5	25.0	10.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5331	0.5827		27.3	25.0	9.3	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36817.D
 Lims ID: CCVIS Lab Sample ID:
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 07-Feb-2014 10:51:30 ALS Bottle#: 87 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0029361-002
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 07-Feb-2014 11:08:26 Calib Date: 03-Feb-2014 23:32:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973C\20140203-29245.b\C36656.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 07-Feb-2014 11:08:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.381	9.381	0.0	97	448863	25.0	
* 2 Chlorobenzene-d5	82	11.788	11.788	0.0	91	199378	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.804	13.804	0.0	96	186522	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	8.859	8.859	0.0	54	108803	28.9	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.155	9.155	0.0	0	74586	28.8	
\$ 5 Toluene-d8 (Surr)	98	10.602	10.602	0.0	95	390191	27.5	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	85	116169	27.3	
10 Dichlorodifluoromethane	85	4.471	4.471	0.0	86	180361	21.5	
12 Chloromethane	50	4.863	4.863	0.0	89	286118	22.6	
13 Vinyl chloride	62	5.100	5.100	0.0	83	254043	23.3	
151 Butadiene	54	5.147	5.147	0.0	94	255446	21.9	
14 Bromomethane	94	5.705	5.705	0.0	91	148047	23.3	
15 Chloroethane	64	5.835	5.835	0.0	93	150491	23.0	
16 Dichlorofluoromethane	67	6.120	6.120	0.0	83	387173	23.6	
17 Trichlorofluoromethane	101	6.191	6.191	0.0	82	282616	23.1	
18 Ethyl ether	59	6.487	6.487	0.0	97	200052	26.5	
20 Acrolein	56	6.736	6.736	0.0	97	194144	142.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.760	6.760	0.0	87	198572	26.1	
22 1,1-Dichloroethene	96	6.819	6.819	0.0	84	174523	25.4	
23 Acetone	43	6.890	6.890	0.0	98	408798	144.3	
25 Iodomethane	142	7.068	7.068	0.0	99	324176	25.8	
26 Carbon disulfide	76	7.151	7.151	0.0	99	654813	25.6	
27 Methyl acetate	43	7.175	7.175	0.0	99	983888	139.0	
28 3-Chloro-1-propene	41	7.199	7.199	0.0	63	407339	26.8	
30 Methylene Chloride	84	7.353	7.353	0.0	92	207628	25.2	
31 2-Methyl-2-propanol	59	7.377	7.377	0.0	97	273353	242.4	
32 Methyl tert-butyl ether	73	7.519	7.519	0.0	93	593845	26.8	
34 trans-1,2-Dichloroethene	96	7.590	7.590	0.0	88	194608	25.5	
33 Acrylonitrile	53	7.602	7.602	0.0	98	954334	266.6	
35 Hexane	57	7.732	7.732	0.0	95	323385	24.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
37 Vinyl acetate	43	7.934	7.934	0.0	97	952985	54.9	
39 1,1-Dichloroethane	63	7.981	7.981	0.0	86	404478	25.4	
43 2-Butanone (MEK)	43	8.444	8.444	0.0	98	572797	139.6	
44 2,2-Dichloropropane	77	8.479	8.479	0.0	85	307798	27.0	
45 cis-1,2-Dichloroethene	96	8.479	8.479	0.0	77	204295	24.8	
48 Chlorobromomethane	128	8.705	8.705	0.0	84	105397	25.4	
49 Tetrahydrofuran	42	8.717	8.717	0.0	66	158475	49.7	
50 Chloroform	83	8.717	8.717	0.0	84	346531	25.6	
51 1,1,1-Trichloroethane	97	8.895	8.895	0.0	91	302661	25.7	
52 Cyclohexane	56	8.930	8.930	0.0	95	428877	24.2	
53 Isobutyl alcohol	43	8.966	8.966	0.0	90	329246	621.9	
54 1,1-Dichloropropene	75	9.001	9.001	0.0	89	243419	24.9	
55 Carbon tetrachloride	117	9.025	9.025	0.0	77	264477	24.9	
59 n-Heptane	43	9.203	9.203	0.0	95	314400	23.7	
57 Benzene	78	9.203	9.203	0.0	97	729985	24.8	
58 1,2-Dichloroethane	62	9.227	9.227	0.0	88	324531	25.9	
62 Trichloroethene	95	9.665	9.665	0.0	92	182572	24.8	
64 Methylcyclohexane	83	9.808	9.808	0.0	98	294446	23.9	
65 1,2-Dichloropropane	63	9.879	9.879	0.0	88	210639	24.7	
66 1,4-Dioxane	88	9.950	9.950	0.0	89	32979	341.2	
67 Dibromomethane	93	10.021	10.021	0.0	87	121506	26.0	
68 Dichlorobromomethane	83	10.080	10.080	0.0	87	258748	26.0	
69 2-Chloroethyl vinyl ether	63	10.199	10.199	0.0	92	121331	25.2	
72 cis-1,3-Dichloropropene	75	10.401	10.401	0.0	86	288128	26.8	
73 4-Methyl-2-pentanone (MIBK)	43	10.436	10.436	0.0	98	1225885	129.2	
74 Toluene	92	10.661	10.661	0.0	96	434592	23.6	
75 Ethyl methacrylate	69	10.733	10.733	0.0	94	222181	26.1	
77 trans-1,3-Dichloropropene	75	10.816	10.816	0.0	95	259978	26.5	
79 1,1,2-Trichloroethane	83	10.993	10.993	0.0	90	137270	24.6	
80 2-Hexanone	43	11.076	11.076	0.0	99	832920	131.9	
81 Tetrachloroethene	166	11.112	11.112	0.0	91	190779	23.5	
82 1,3-Dichloropropane	76	11.136	11.136	0.0	94	284834	24.3	
83 Chlorodibromomethane	129	11.361	11.361	0.0	90	188802	24.6	
84 Ethylene Dibromide	107	11.492	11.492	0.0	98	161992	24.2	
87 Chlorobenzene	112	11.824	11.824	0.0	84	485593	23.5	
88 Ethylbenzene	91	11.824	11.824	0.0	93	833643	23.7	
89 1,1,1,2-Tetrachloroethane	131	11.859	11.859	0.0	72	180065	23.7	
90 m-Xylene & p-Xylene	106	11.907	11.907	0.0	0	319319	23.8	
91 o-Xylene	106	12.250	12.250	0.0	92	310879	24.2	
92 Styrene	104	12.262	12.262	0.0	90	504752	24.4	
94 Isopropylbenzene	105	12.523	12.523	0.0	97	814038	24.3	
95 Bromoform	173	12.547	12.547	0.0	92	117238	24.7	
97 1,1,2,2-Tetrachloroethane	83	12.820	12.820	0.0	87	222580	24.8	
98 trans-1,4-Dichloro-2-butene	53	12.843	12.843	0.0	81	80656	30.8	
99 N-Propylbenzene	91	12.867	12.867	0.0	98	995197	24.6	
100 1,2,3-Trichloropropane	110	12.903	12.903	0.0	84	69099	25.7	
101 Bromobenzene	156	12.926	12.926	0.0	79	209064	24.5	
102 1,3,5-Trimethylbenzene	105	12.986	12.986	0.0	83	688169	24.5	
103 2-Chlorotoluene	126	13.045	13.045	0.0	95	194278	23.6	
105 4-Chlorotoluene	126	13.128	13.128	0.0	99	200670	24.2	
106 tert-Butylbenzene	134	13.318	13.318	0.0	93	141543	24.0	
107 1,2,4-Trimethylbenzene	105	13.353	13.353	0.0	77	723522	24.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	13.519	13.519	0.0	95	860862	24.2	
110 4-Isopropyltoluene	119	13.614	13.614	0.0	95	734955	24.3	
111 1,3-Dichlorobenzene	146	13.757	13.757	0.0	97	406668	24.1	
113 1,4-Dichlorobenzene	146	13.840	13.840	0.0	93	411070	23.6	
115 n-Butylbenzene	91	14.029	14.029	0.0	98	686110	24.4	
116 1,2-Dichlorobenzene	146	14.255	14.255	0.0	95	391551	23.9	
117 1,2-Dibromo-3-Chloropropane	75	15.144	15.144	0.0	59	42856	24.2	
119 1,2,4-Trichlorobenzene	180	16.176	16.176	0.0	90	285340	23.1	
120 Hexachlorobutadiene	225	16.271	16.271	0.0	91	115897	23.9	
121 Naphthalene	128	16.614	16.614	0.0	97	706511	24.1	
122 1,2,3-Trichlorobenzene	180	16.982	16.982	0.0	92	271653	22.9	
S 123 Total BTEX	1				0		120.1	
S 124 Xylenes, Total	1				0		48.0	
S 125 1,2-Dichloroethene, Total	1				0		50.4	
S 126 1,3-Dichloropropene, Total	1				0		53.3	

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36817.D

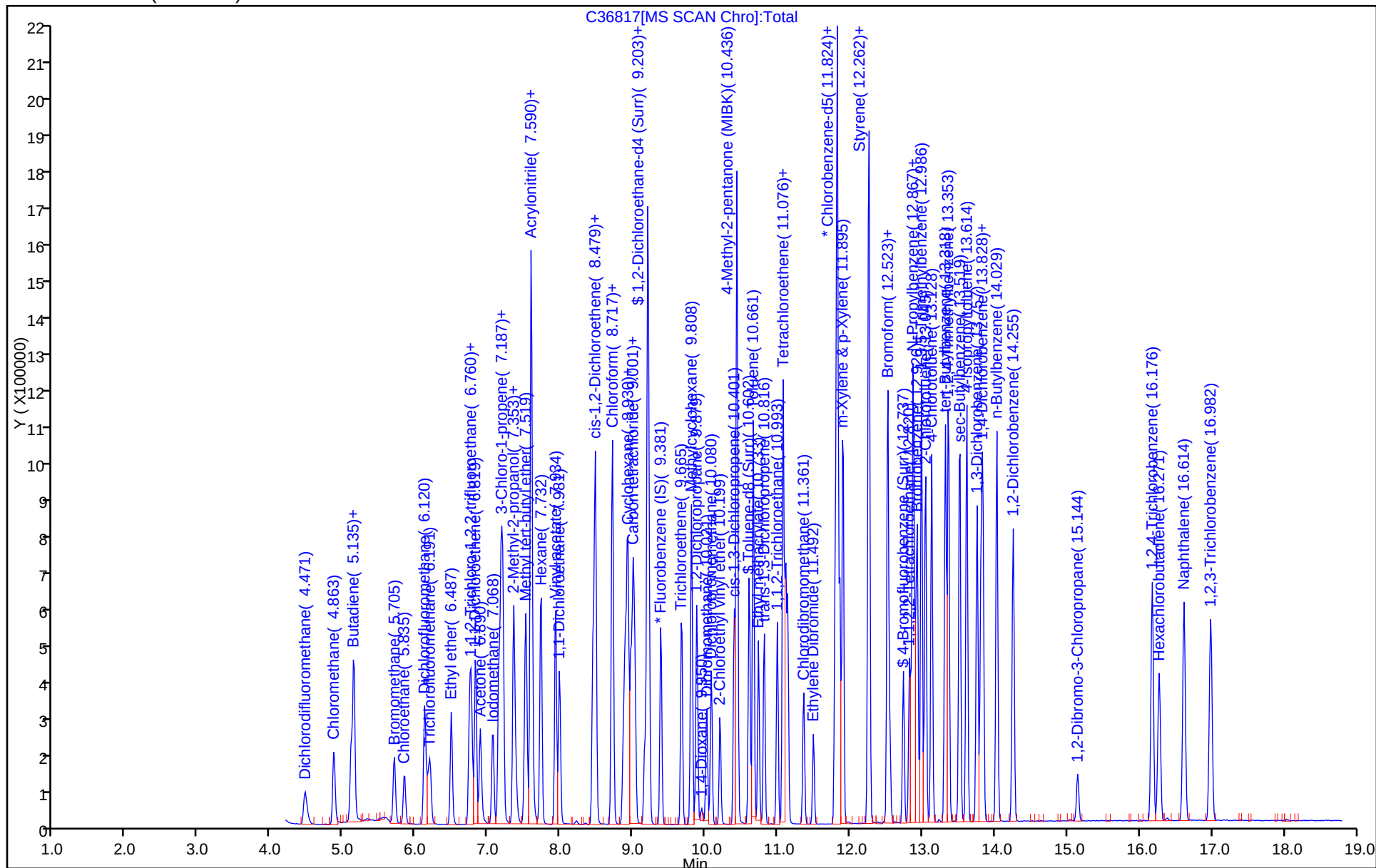
Operator ID: LH

Worklist Smp#: 2

ALS Bottle#: 87

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Lab Sample ID: CCVIS 480-165079/2 Calibration Date: 02/07/2014 22:48

Instrument ID: HP5973C Calib Start Date: 02/01/2014 01:53

GC Column: ZB-624 (30) ID: 0.53 (mm) Calib End Date: 02/01/2014 04:24

Lab File ID: C36834.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.4663	0.3772	0.1000	20.2	25.0	-19.1	20.0
Chloromethane	Ave	0.7043	0.6477	0.1000	23.0	25.0	-8.0	20.0
Vinyl chloride	Ave	0.6067	0.5919	0.1000	24.4	25.0	-2.4	20.0
Butadiene	Ave	0.6490	0.5825		22.4	25.0	-10.2	20.0
Bromomethane	Ave	0.3540	0.3558	0.1000	25.1	25.0	0.5	20.0
Chloroethane	Ave	0.3640	0.3685	0.1000	25.3	25.0	1.2	20.0
Dichlorofluoromethane	Ave	0.9156	0.9367		25.6	25.0	2.3	20.0
Trichlorofluoromethane	Ave	0.6800	0.6842	0.1000	25.2	25.0	0.6	20.0
Ethyl ether	Ave	0.4208	0.4375		26.0	25.0	4.0	20.0
Acrolein	Ave	0.0759	0.0848		140	125	11.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4236	0.4397	0.1000	25.9	25.0	3.8	20.0
1,1-Dichloroethene	Ave	0.3824	0.3947	0.1000	25.8	25.0	3.2	20.0
Acetone	Ave	0.1578	0.1667	0.1000	132	125	5.7	20.0
Iodomethane	Ave	0.7002	0.7109		25.4	25.0	1.5	20.0
Carbon disulfide	Ave	1.427	1.433	0.1000	25.1	25.0	0.4	20.0
Methyl acetate	Ave	0.3941	0.4248	0.1000	135	125	7.8	20.0
Allyl chloride	Ave	0.8477	0.9021		26.6	25.0	6.4	20.0
Methylene Chloride	Ave	0.4593	0.4719	0.1000	25.7	25.0	2.7	20.0
2-Methyl-2-propanol	Ave	0.0628	0.0518		206	250	-17.6	20.0
Methyl tert-butyl ether	Ave	1.233	1.295	0.1000	26.3	25.0	5.1	20.0
trans-1,2-Dichloroethene	Ave	0.4245	0.4345	0.1000	25.6	25.0	2.4	20.0
Acrylonitrile	Ave	0.1994	0.2074		260	250	4.0	20.0
Hexane	Ave	0.7332	0.7340		25.0	25.0	0.1	20.0
Vinyl acetate	Ave	0.9669	1.063		55.0	50.0	9.9	20.0
1,1-Dichloroethane	Ave	0.8873	0.9026	0.2000	25.4	25.0	1.7	20.0
2-Butanone (MEK)	Ave	0.2286	0.2423	0.1000	133	125	6.0	20.0
2,2-Dichloropropane	Ave	0.6359	0.6801		26.7	25.0	6.9	20.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4659	0.1000	25.4	25.0	1.7	20.0
Chlorobromomethane	Ave	0.2308	0.2362		25.6	25.0	2.4	20.0
Chloroform	Ave	0.7548	0.7592	0.2000	25.1	25.0	0.6	20.0
Tetrahydrofuran	Ave	0.1777	0.1686		47.4	50.0	-5.1	20.0
1,1,1-Trichloroethane	Ave	0.6554	0.6628	0.1000	25.3	25.0	1.1	20.0
Cyclohexane	Ave	0.9886	0.9634	0.1000	24.4	25.0	-2.5	20.0
Isobutyl alcohol	Ave	0.0295	0.0255		541	625	-13.4	20.0
1,1-Dichloropropene	Ave	0.5453	0.5406		24.8	25.0	-0.9	20.0
Carbon tetrachloride	Ave	0.5908	0.5838	0.1000	24.7	25.0	-1.2	20.0
Benzene	Ave	1.640	1.626	0.5000	24.8	25.0	-0.9	20.0
n-Heptane	Ave	0.7389	0.7152		24.2	25.0	-3.2	20.0
1,2-Dichloroethane	Ave	0.6986	0.7070	0.1000	25.3	25.0	1.2	20.0
Trichloroethene	Ave	0.4098	0.4170	0.2000	25.4	25.0	1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Lab Sample ID: CCVIS 480-165079/2 Calibration Date: 02/07/2014 22:48

Instrument ID: HP5973C Calib Start Date: 02/01/2014 01:53

GC Column: ZB-624 (30) ID: 0.53 (mm) Calib End Date: 02/01/2014 04:24

Lab File ID: C36834.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.6857	0.6642	0.1000	24.2	25.0	-3.1	20.0
1,2-Dichloropropane	Ave	0.4748	0.4753	0.1000	25.0	25.0	0.0	20.0
1,4-Dioxane	Lin1		0.0055		233	500	-53.5*	20.0
Dibromomethane	Ave	0.2605	0.2634	0.1000	25.3	25.0	1.1	20.0
Bromodichloromethane	Ave	0.5542	0.5638	0.2000	25.4	25.0	1.7	20.0
2-Chloroethyl vinyl ether	Ave	0.2684	0.2566		23.9	25.0	-4.4	20.0
cis-1,3-Dichloropropene	Ave	0.5992	0.6353	0.2000	26.5	25.0	6.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.190	1.212	0.1000	127	125	1.8	20.0
Toluene	Ave	2.308	2.216	0.4000	24.0	25.0	-4.0	20.0
Ethyl methacrylate	Ave	1.067	1.122		26.3	25.0	5.1	20.0
trans-1,3-Dichloropropene	Ave	1.231	1.313	0.1000	26.7	25.0	6.7	20.0
1,1,2-Trichloroethane	Ave	0.6990	0.6898	0.1000	24.7	25.0	-1.3	20.0
2-Hexanone	Ave	0.7918	0.8275	0.1000	131	125	4.5	20.0
Tetrachloroethene	Ave	1.016	0.9720	0.2000	23.9	25.0	-4.3	20.0
1,3-Dichloropropane	Ave	1.470	1.469		25.0	25.0	-0.1	20.0
Dibromochloromethane	Ave	0.9633	0.9617	0.1000	24.5	24.5	-0.2	20.0
1,2-Dibromoethane	Ave	0.8403	0.8278		24.6	25.0	-1.5	20.0
Chlorobenzene	Ave	2.591	2.485	0.5000	24.0	25.0	-4.1	20.0
Ethylbenzene	Ave	4.406	4.250	0.1000	24.1	25.0	-3.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.9513	0.9112		23.9	25.0	-4.2	20.0
m,p-Xylene	Ave	1.685	1.649	0.1000	24.5	25.0	-2.1	20.0
o-Xylene	Ave	1.610	1.599	0.3000	24.8	25.0	-0.7	20.0
Styrene	Ave	2.593	2.616	0.3000	25.2	25.0	0.9	20.0
Isopropylbenzene	Ave	4.483	4.349	0.1000	24.3	25.0	-3.0	20.0
Bromoform	Ave	0.5959	0.5961	0.1000	25.0	25.0	0.0	20.0
1,1,2,2-Tetrachloroethane	Ave	1.203	1.182	0.3000	24.6	25.0	-1.7	20.0
trans-1,4-Dichloro-2-butene	Lin		0.4193		29.9	25.0	19.7	20.0
N-Propylbenzene	Ave	5.424	5.333		24.6	25.0	-1.7	20.0
1,2,3-Trichloropropane	Ave	0.3609	0.3745		25.9	25.0	3.8	20.0
Bromobenzene	Ave	1.143	1.103		24.1	25.0	-3.4	20.0
1,3,5-Trimethylbenzene	Ave	3.770	3.682		24.4	25.0	-2.3	20.0
2-Chlorotoluene	Ave	1.102	1.043		23.6	25.0	-5.4	20.0
4-Chlorotoluene	Ave	1.112	1.069		24.0	25.0	-3.9	20.0
tert-Butylbenzene	Ave	0.7899	0.7591		24.0	25.0	-3.9	20.0
1,2,4-Trimethylbenzene	Ave	3.960	3.853		24.3	25.0	-2.7	20.0
sec-Butylbenzene	Ave	4.771	4.618		24.2	25.0	-3.2	20.0
p-Isopropyltoluene	Ave	4.060	3.970		24.4	25.0	-2.2	20.0
1,3-Dichlorobenzene	Ave	2.261	2.142	0.6000	23.7	25.0	-5.3	20.0
1,4-Dichlorobenzene	Ave	2.332	2.200	0.5000	23.6	25.0	-5.7	20.0
n-Butylbenzene	Ave	3.776	3.699		24.5	25.0	-2.0	20.0
1,2-Dichlorobenzene	Ave	2.200	2.069	0.4000	23.5	25.0	-5.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-165079/2 Calibration Date: 02/07/2014 22:48
 Instrument ID: HP5973C Calib Start Date: 02/01/2014 01:53
 GC Column: ZB-624 (30) ID: 0.53 (mm) Calib End Date: 02/01/2014 04:24
 Lab File ID: C36834.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2369	0.2205	0.0500	23.3	25.0	-6.9	20.0
1,2,4-Trichlorobenzene	Ave	1.658	1.527	0.2000	23.0	25.0	-7.9	20.0
Hexachlorobutadiene	Ave	0.6505	0.6351		24.4	25.0	-2.4	20.0
Naphthalene	Ave	3.934	3.853		24.5	25.0	-2.1	20.0
1,2,3-Trichlorobenzene	Ave	1.591	1.475		23.2	25.0	-7.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2097	0.2364		28.2	25.0	12.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1444	0.1588		27.5	25.0	10.0	20.0
Toluene-d8 (Surr)	Ave	1.780	1.957		27.5	25.0	10.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5331	0.5813		27.3	25.0	9.0	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36834.D
 Lims ID: CCVIS Lab Sample ID:
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 07-Feb-2014 22:48:30 ALS Bottle#: 6 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0029375-002
 Operator ID: RAL Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 07-Feb-2014 23:06:21 Calib Date: 03-Feb-2014 23:32:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973C\20140203-29245.b\C36656.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: larsonr

Date: 07-Feb-2014 23:06:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.381	9.381	0.0	98	439807	25.0	
* 2 Chlorobenzene-d5	82	11.788	11.788	0.0	90	192702	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.804	13.804	0.0	96	185485	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	8.859	8.859	0.0	55	103971	28.2	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.155	9.155	0.0	0	69860	27.5	
\$ 5 Toluene-d8 (Surr)	98	10.602	10.602	0.0	95	377173	27.5	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	86	112015	27.3	
10 Dichlorodifluoromethane	85	4.460	4.460	0.0	85	165882	20.2	
12 Chloromethane	50	4.851	4.851	0.0	89	284855	23.0	
13 Vinyl chloride	62	5.088	5.088	0.0	83	260302	24.4	
151 Butadiene	54	5.135	5.135	0.0	93	256191	22.4	
14 Bromomethane	94	5.693	5.693	0.0	91	156497	25.1	
15 Chloroethane	64	5.835	5.835	0.0	94	162062	25.3	
16 Dichlorofluoromethane	67	6.108	6.108	0.0	83	411963	25.6	
17 Trichlorofluoromethane	101	6.179	6.179	0.0	84	300917	25.2	
18 Ethyl ether	59	6.487	6.487	0.0	96	192430	26.0	
20 Acrolein	56	6.736	6.736	0.0	95	186399	139.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.760	6.760	0.0	86	193366	25.9	
22 1,1-Dichloroethene	96	6.819	6.819	0.0	84	173578	25.8	
23 Acetone	43	6.879	6.879	0.0	98	366658	132.1	
25 Iodomethane	142	7.057	7.057	0.0	99	312639	25.4	
26 Carbon disulfide	76	7.140	7.140	0.0	100	630193	25.1	
27 Methyl acetate	43	7.175	7.175	0.0	99	934042	134.7	
28 3-Chloro-1-propene	41	7.199	7.199	0.0	79	396745	26.6	
30 Methylene Chloride	84	7.341	7.341	0.0	91	207540	25.7	
31 2-Methyl-2-propanol	59	7.365	7.365	0.0	97	227589	206.0	
32 Methyl tert-butyl ether	73	7.519	7.519	0.0	93	569736	26.3	
34 trans-1,2-Dichloroethene	96	7.578	7.578	0.0	88	191112	25.6	
33 Acrylonitrile	53	7.590	7.590	0.0	98	912009	260.0	
35 Hexane	57	7.721	7.721	0.0	95	322815	25.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
37 Vinyl acetate	43	7.922	7.922	0.0	97	934811	55.0	
39 1,1-Dichloroethane	63	7.981	7.981	0.0	86	396961	25.4	
43 2-Butanone (MEK)	43	8.444	8.444	0.0	98	532855	132.5	
44 2,2-Dichloropropane	77	8.468	8.468	0.0	87	299093	26.7	
45 cis-1,2-Dichloroethene	96	8.480	8.480	0.0	77	204915	25.4	
48 Chlorobromomethane	128	8.705	8.705	0.0	87	103884	25.6	
49 Tetrahydrofuran	42	8.717	8.717	0.0	65	148324	47.4	
50 Chloroform	83	8.717	8.717	0.0	84	333890	25.1	
51 1,1,1-Trichloroethane	97	8.895	8.895	0.0	91	291498	25.3	
52 Cyclohexane	56	8.918	8.918	0.0	94	423710	24.4	
53 Isobutyl alcohol	43	8.966	8.966	0.0	91	280771	541.2	
54 1,1-Dichloropropene	75	9.001	9.001	0.0	83	237771	24.8	
55 Carbon tetrachloride	117	9.025	9.025	0.0	89	256771	24.7	
57 Benzene	78	9.191	9.191	0.0	97	715312	24.8	
59 n-Heptane	43	9.203	9.203	0.0	94	314553	24.2	
58 1,2-Dichloroethane	62	9.215	9.215	0.0	89	310940	25.3	
62 Trichloroethene	95	9.665	9.665	0.0	92	183377	25.4	
64 Methylcyclohexane	83	9.808	9.808	0.0	98	292109	24.2	
65 1,2-Dichloropropane	63	9.879	9.879	0.0	89	209036	25.0	
66 1,4-Dioxane	88	9.950	9.950	0.0	86	21294	232.6	
67 Dibromomethane	93	10.009	10.009	0.0	87	115864	25.3	
68 Dichlorobromomethane	83	10.080	10.080	0.0	87	247954	25.4	
69 2-Chloroethyl vinyl ether	63	10.199	10.199	0.0	91	112833	23.9	
72 cis-1,3-Dichloropropene	75	10.401	10.401	0.0	86	279405	26.5	
73 4-Methyl-2-pentanone (MIBK)	43	10.436	10.436	0.0	98	1167438	127.3	
74 Toluene	92	10.662	10.662	0.0	96	427099	24.0	
75 Ethyl methacrylate	69	10.733	10.733	0.0	94	216218	26.3	
77 trans-1,3-Dichloropropene	75	10.816	10.816	0.0	95	253076	26.7	
79 1,1,2-Trichloroethane	83	10.994	10.994	0.0	90	132933	24.7	
80 2-Hexanone	43	11.077	11.077	0.0	98	797271	130.6	
81 Tetrachloroethene	166	11.112	11.112	0.0	91	187312	23.9	
82 1,3-Dichloropropane	76	11.136	11.136	0.0	96	283017	25.0	
83 Chlorodibromomethane	129	11.361	11.361	0.0	88	181617	24.5	
84 Ethylene Dibromide	107	11.492	11.492	0.0	97	159512	24.6	
87 Chlorobenzene	112	11.824	11.824	0.0	85	478844	24.0	
88 Ethylbenzene	91	11.824	11.824	0.0	93	819028	24.1	
89 1,1,1,2-Tetrachloroethane	131	11.859	11.859	0.0	73	175588	23.9	
90 m-Xylene & p-Xylene	106	11.895	11.895	0.0	0	317808	24.5	
91 o-Xylene	106	12.251	12.251	0.0	91	308039	24.8	
92 Styrene	104	12.262	12.262	0.0	90	504075	25.2	
94 Isopropylbenzene	105	12.523	12.523	0.0	96	806700	24.3	
95 Bromoform	173	12.547	12.547	0.0	94	114867	25.0	
97 1,1,2,2-Tetrachloroethane	83	12.820	12.820	0.0	87	219274	24.6	
98 trans-1,4-Dichloro-2-butene	53	12.843	12.843	0.0	78	77765	29.9	
99 N-Propylbenzene	91	12.867	12.867	0.0	98	989263	24.6	
100 1,2,3-Trichloropropane	110	12.903	12.903	0.0	89	69472	25.9	
101 Bromobenzene	156	12.926	12.926	0.0	81	204656	24.1	
102 1,3,5-Trimethylbenzene	105	12.986	12.986	0.0	86	683000	24.4	
103 2-Chlorotoluene	126	13.045	13.045	0.0	95	193376	23.6	
105 4-Chlorotoluene	126	13.128	13.128	0.0	99	198213	24.0	
106 tert-Butylbenzene	134	13.318	13.318	0.0	93	140801	24.0	
107 1,2,4-Trimethylbenzene	105	13.353	13.353	0.0	87	714593	24.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	13.508	13.508	0.0	96	856588	24.2	
110 4-Isopropyltoluene	119	13.614	13.614	0.0	95	736446	24.4	
111 1,3-Dichlorobenzene	146	13.757	13.757	0.0	97	397318	23.7	
113 1,4-Dichlorobenzene	146	13.840	13.840	0.0	94	407974	23.6	
115 n-Butylbenzene	91	14.029	14.029	0.0	97	686144	24.5	
116 1,2-Dichlorobenzene	146	14.255	14.255	0.0	96	383860	23.5	
117 1,2-Dibromo-3-Chloropropane	75	15.144	15.144	0.0	61	40893	23.3	
119 1,2,4-Trichlorobenzene	180	16.176	16.176	0.0	93	283168	23.0	
120 Hexachlorobutadiene	225	16.271	16.271	0.0	92	117795	24.4	
121 Naphthalene	128	16.614	16.614	0.0	97	714597	24.5	
122 1,2,3-Trichlorobenzene	180	16.982	16.982	0.0	92	273560	23.2	
S 123 Total BTEX	1				0		122.2	
S 124 Xylenes, Total	1				0		49.3	
S 125 1,2-Dichloroethene, Total	1				0		51.0	
S 126 1,3-Dichloropropene, Total	1				0		53.2	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36834.D

Injection Date: 07-Feb-2014 22:48:30

Instrument ID: HP5973C

Operator ID: RAL

Lims ID: CCVIS

Lab Sample ID:

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

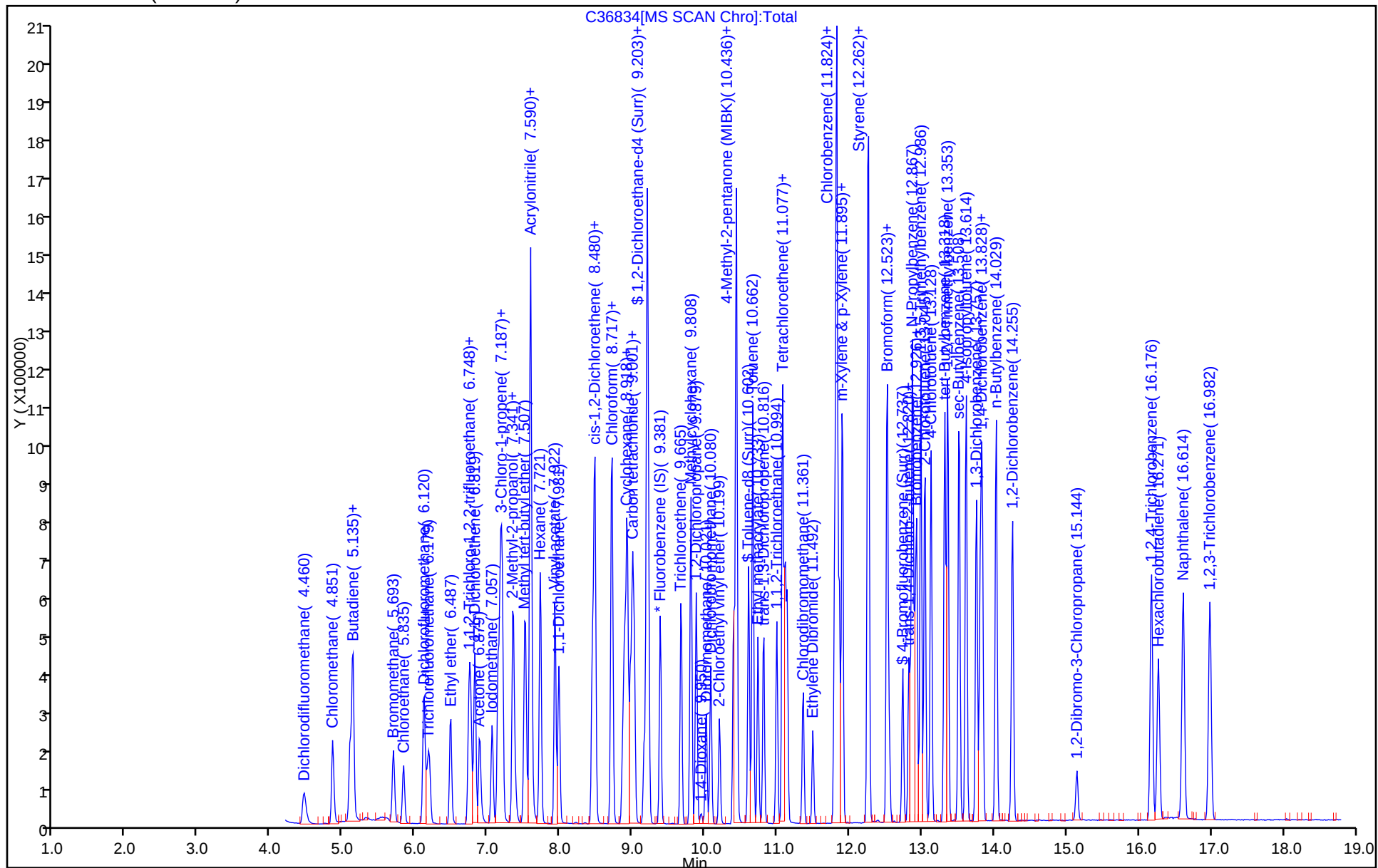
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36630.D
Lims ID: BFB Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 01-Feb-2014 00:58:30 ALS Bottle#: 8 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0029209-003
Operator ID: RAL Instrument ID: HP5973C
Method: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Feb-2014 01:08:03 Calib Date: 31-Dec-2013 22:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973C\20131231-28520.b\C35683.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: larsonr

Date: 01-Feb-2014 01:08:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags

\$ 61 BFB

95 9.514 9.514 0.0 0 137455 NR

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36630.D

Injection Date: 01-Feb-2014 00:58:30

Instrument ID: HP5973C

Lims ID: BFB

Lab Sample ID:

Client ID:

Operator ID: RAL

ALS Bottle#: 8 Worklist Smp#: 3

Purge Vol: 5.000 mL

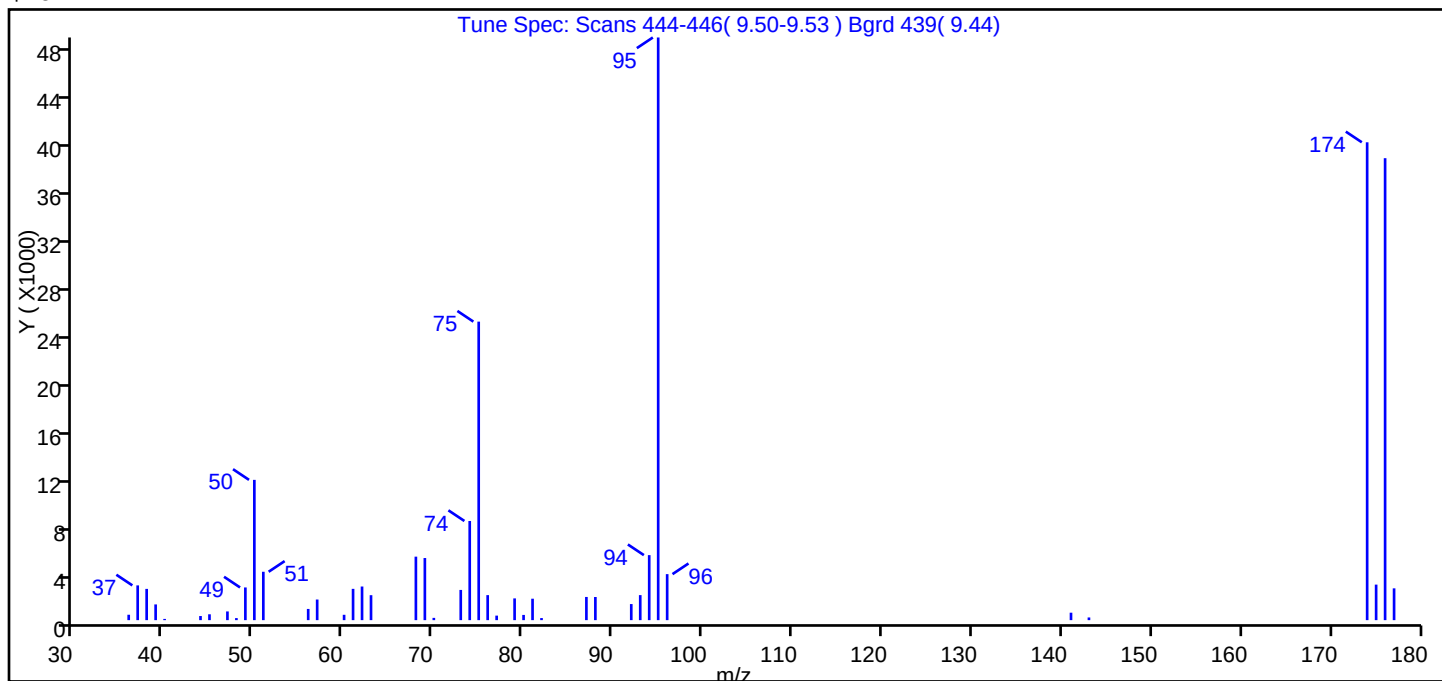
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.10
75	30.00 - 60.00% of mass 95	51.20
96	5.00 - 9.00% of mass 95	7.90
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	82.00
175	5.00 - 9.00% of mass 174	6.10 (7.40)
176	95.00 - 101.00% of mass 174	79.30 (96.70)
177	5.00 - 9.00% of mass 176	5.50 (6.90)

Data File: \\Bufchrom\ChromData\HP5973C\20140131-29209.b\C36630.D\C-8260.rslt\spectra.d
Injection Date: 01-Feb-2014 00:58:30
Spectrum: Tune Spec: Scans 444-446(9.50-9.53) Bgrd 439(9.44)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	451	51.00	4040	74.00	8280	93.00	2090
37.00	2902	56.00	935	75.00	24928	94.00	5429
38.00	2610	57.00	1722	76.00	2089	95.00	48656
39.00	1313	60.00	447	77.00	378	96.00	3842
40.00	103	61.00	2613	79.00	1816	141.00	622
44.00	344	62.00	2808	80.00	436	143.00	224
45.00	489	63.00	2084	81.00	1790	174.00	39904
47.00	727	68.00	5302	82.00	174	175.00	2967
48.00	171	69.00	5187	87.00	1937	176.00	38576
49.00	2730	70.00	190	88.00	1932	177.00	2655
50.00	11714	73.00	2523	92.00	1343		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36816.D
Lims ID: BFB Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 07-Feb-2014 10:21:30 ALS Bottle#: 86 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0029361-001
Operator ID: LH Instrument ID: HP5973C
Method: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Feb-2014 10:31:01 Calib Date: 03-Feb-2014 23:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973C\20140203-29245.b\C36656.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: HillL

Date: 07-Feb-2014 10:31:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags

\$ 61 BFB	95	9.502	9.502	0.0	0	158929	NR	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36816.D

Injection Date: 07-Feb-2014 10:21:30

Instrument ID: HP5973C

Lims ID: BFB

Lab Sample ID:

Client ID:

Operator ID: LH

ALS Bottle#: 86 Worklist Smp#: 1

Purge Vol: 5.000 mL

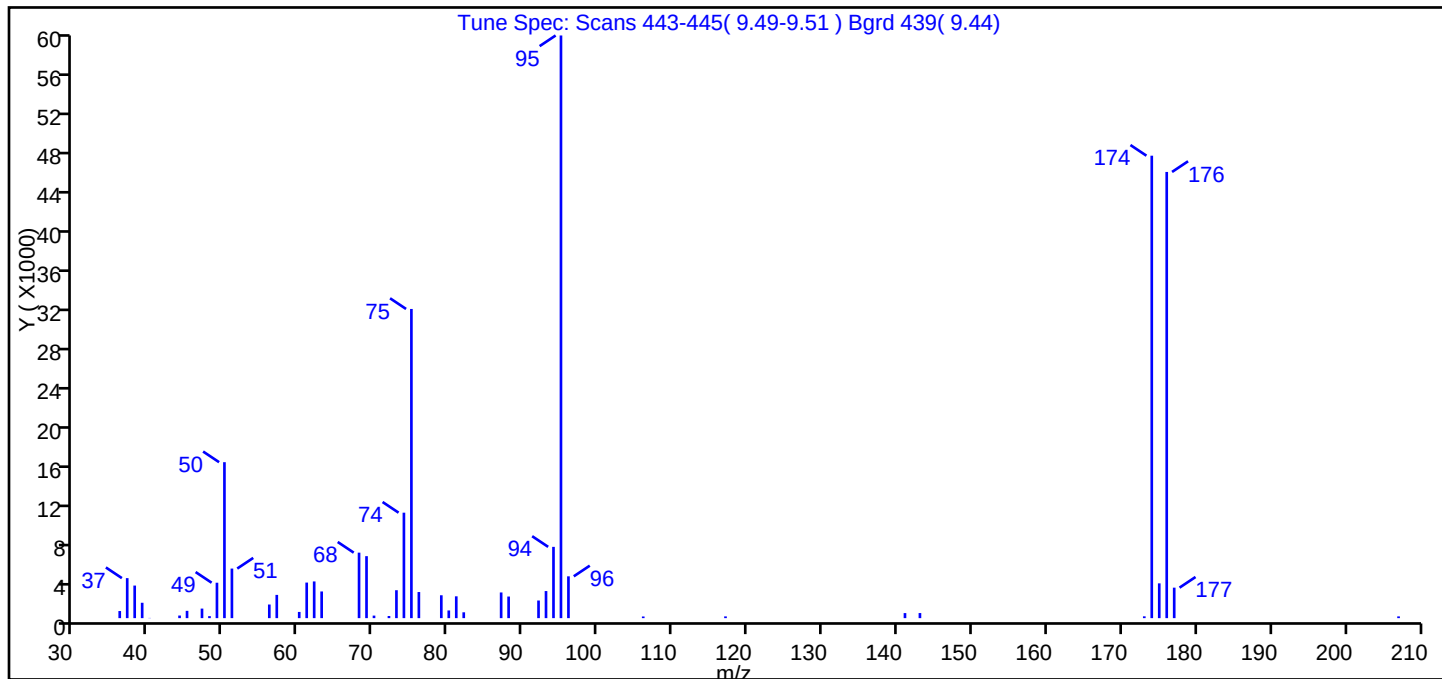
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.80
75	30.00 - 60.00% of mass 95	53.10
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.30 (0.40)
174	50.00 - 120.00% of mass 95	79.40
175	5.00 - 9.00% of mass 174	6.00 (7.50)
176	95.00 - 101.00% of mass 174	76.60 (96.50)
177	5.00 - 9.00% of mass 176	5.20 (6.80)

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36816.D\C-8260.rslt\spectra.d
Injection Date: 07-Feb-2014 10:21:30
Spectrum: Tune Spec: Scans 443-445(9.49-9.51) Bgrd 439(9.44)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	725	56.00	1389	75.00	31520	96.00	4263
37.00	4080	57.00	2370	76.00	2661	106.00	169
38.00	3321	60.00	633	79.00	2332	117.00	178
39.00	1568	61.00	3626	80.00	784	141.00	515
40.00	21	62.00	3742	81.00	2225	143.00	519
44.00	266	63.00	2720	82.00	596	173.00	184
45.00	744	68.00	6677	87.00	2618	174.00	47144
47.00	974	69.00	6319	88.00	2203	175.00	3546
48.00	205	70.00	260	92.00	1797	176.00	45488
49.00	3611	72.00	217	93.00	2761	177.00	3108
50.00	15899	73.00	2847	94.00	7267	207.00	179
51.00	5054	74.00	10752	95.00	59400		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36833.D
Lims ID: BFB Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 07-Feb-2014 22:20:30 ALS Bottle#: 5 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0029375-001
Operator ID: RAL Instrument ID: HP5973C
Method: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Feb-2014 22:28:14 Calib Date: 03-Feb-2014 23:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973C\20140203-29245.b\C36656.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: larsonr

Date: 07-Feb-2014 22:28:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags

\$ 61 BFB	95	9.502	9.502	0.0	0	140887	NR	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36833.D

Injection Date: 07-Feb-2014 22:20:30

Instrument ID: HP5973C

Lims ID: BFB

Lab Sample ID:

Client ID:

Operator ID: RAL

ALS Bottle#: 5 Worklist Smp#: 1

Purge Vol: 5.000 mL

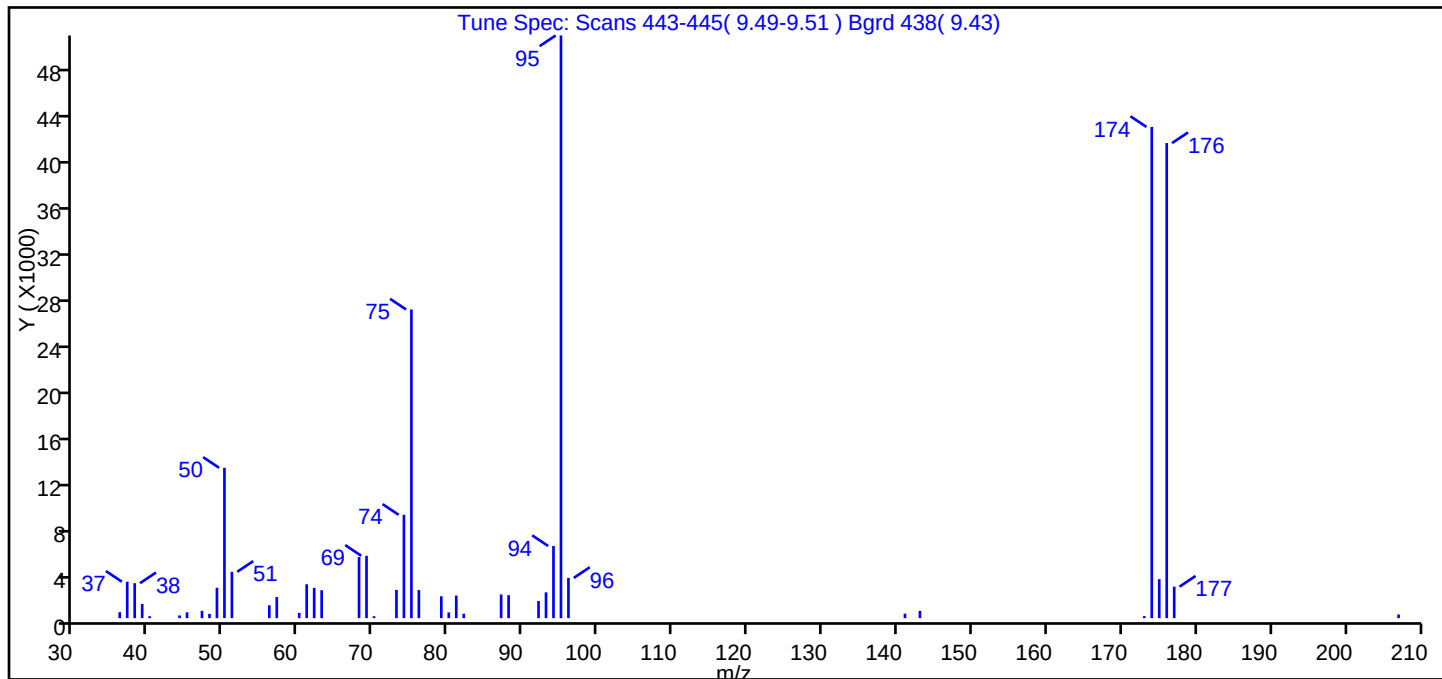
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.80
75	30.00 - 60.00% of mass 95	53.00
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.30 (0.40)
174	50.00 - 120.00% of mass 95	84.30
175	5.00 - 9.00% of mass 174	6.70 (7.90)
176	95.00 - 101.00% of mass 174	81.50 (96.70)
177	5.00 - 9.00% of mass 176	5.40 (6.60)

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36833.D\C-8260.rslt\spectra.d
Injection Date: 07-Feb-2014 22:20:30
Spectrum: Tune Spec: Scans 443-445(9.49-9.51) Bgrd 438(9.43)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	513	51.00	4003	74.00	8923	94.00	6228
37.00	3147	56.00	1108	75.00	26648	95.00	50304
38.00	3018	57.00	1818	76.00	2424	96.00	3472
39.00	1225	60.00	453	79.00	1888	141.00	390
40.00	167	61.00	2926	80.00	493	143.00	622
44.00	234	62.00	2615	81.00	1949	173.00	176
45.00	506	63.00	2411	82.00	380	174.00	42408
47.00	630	68.00	5280	87.00	2047	175.00	3361
48.00	366	69.00	5385	88.00	1984	176.00	41016
49.00	2622	70.00	167	92.00	1480	177.00	2717
50.00	12979	73.00	2441	93.00	2228	207.00	317

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-164965/6

Matrix: Water Lab File ID: C36821.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 12:44

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 164965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.35
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.41
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.89
591-78-6	2-Hexanone	5.0	U	5.0	1.2
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-164965/6

Matrix: Water Lab File ID: C36821.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 12:44

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 164965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.75
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
104-51-8	n-Butylbenzene	1.0	U	1.0	0.64
103-65-1	N-Propylbenzene	1.0	U	1.0	0.69
95-47-6	o-Xylene	1.0	U	1.0	0.76
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.75
100-42-5	Styrene	1.0	U	1.0	0.73
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.81
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.86
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.84
108-86-1	Bromobenzene	1.0	U	1.0	0.80
74-95-3	Dibromomethane	1.0	U	1.0	0.41
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.28
91-20-3	Naphthalene	1.0	U	1.0	0.43
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66
75-01-4	Vinyl chloride	1.0	U	1.0	0.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-164965/6
Matrix: Water Lab File ID: C36821.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 12:44
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 164965 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		66-137
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
2037-26-5	Toluene-d8 (Surr)	108		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36821.D
 Lims ID: MB Lab Sample ID: MB 480-164966/6-A
 Client ID:
 Sample Type: MB
 Inject. Date: 07-Feb-2014 12:44:30 ALS Bottle#: 91 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0029361-006
 Operator ID: LH Instrument ID: HP5973C
 Method: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 07-Feb-2014 13:01:26 Calib Date: 03-Feb-2014 23:32:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973C\20140203-29245.b\C36656.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 07-Feb-2014 13:01:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.393	9.381	0.012	98	436988	25.0	
* 2 Chlorobenzene-d5	82	11.788	11.788	0.0	90	193711	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.804	13.804	0.0	96	179553	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	8.871	8.859	0.012	55	105567	28.8	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.167	9.156	0.011	0	71240	28.2	
\$ 5 Toluene-d8 (Surr)	98	10.602	10.602	0.0	95	372047	27.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	85	111174	26.9	
10 Dichlorodifluoromethane	85		4.471					
11 Chlorodifluoromethane	51		4.495					
12 Chloromethane	50		4.863					
13 Vinyl chloride	62		5.100					
151 Butadiene	54		5.147					
14 Bromomethane	94		5.705					
15 Chloroethane	64		5.835					
16 Dichlorofluoromethane	67		6.120					
17 Trichlorofluoromethane	101		6.191					
148 Ethanol	45		6.428					
18 Ethyl ether	59		6.487					
19 Propene oxide	58		6.630					
20 Acrolein	56		6.736					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.760					
22 1,1-Dichloroethene	96		6.819					
23 Acetone	43		6.890					
24 Isopropyl alcohol	45		6.974					
25 Iodomethane	142		7.068					
26 Carbon disulfide	76		7.151					
27 Methyl acetate	43		7.175					
28 3-Chloro-1-propene	41		7.199					
29 Acetonitrile	40		7.235					
30 Methylene Chloride	84		7.353					
31 2-Methyl-2-propanol	59		7.377					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
32 Methyl tert-butyl ether	73		7.519					
34 trans-1,2-Dichloroethene	96		7.590					
33 Acrylonitrile	53		7.602					
35 Hexane	57		7.732					
135 Halothane	117		7.875					
36 Isopropyl ether	45		7.887					
37 Vinyl acetate	43		7.934					
39 1,1-Dichloroethane	63		7.981					
38 1,1-Dimethoxyethane	75		7.982					
40 2-Chloro-1,3-butadiene	53		8.029					
41 Tert-butyl ethyl ether	59		8.195					
42 Ethyl acetate	43		8.409					
43 2-Butanone (MEK)	43		8.444					
44 2,2-Dichloropropane	77		8.479					
45 cis-1,2-Dichloroethene	96		8.479					
46 Propionitrile	54		8.551					
47 Methacrylonitrile	41		8.658					
48 Chlorobromomethane	128		8.705					
49 Tetrahydrofuran	42		8.717					
50 Chloroform	83		8.717					
51 1,1,1-Trichloroethane	97		8.895					
52 Cyclohexane	56		8.930					
53 Isobutyl alcohol	43		8.966					
54 1,1-Dichloropropene	75		9.001					
55 Carbon tetrachloride	117		9.025					
147 t-Amyl alcohol	59		9.061					
152 Isooctane	57	9.108	9.108	0.0	40	2964	0.0972	
56 Tert-amyl methyl ether	73		9.156					
59 n-Heptane	43		9.203					
57 Benzene	78		9.203					
58 1,2-Dichloroethane	62		9.227					
1 1,4-Difluorobenzene	114		9.417					
60 n-Butanol	56		9.476					
141 2,4,4-Trimethyl-1-pentene	55		9.523					
142 Ethyl acrylate	55		9.618					
62 Trichloroethene	95		9.665					
140 2,4,4-Trimethyl-2-pentene	97		9.666					
64 Methylcyclohexane	83		9.808					
63 Methyl methacrylate	41		9.808					
65 1,2-Dichloropropane	63		9.879					
66 1,4-Dioxane	88		9.950					
67 Dibromomethane	93		10.021					
68 Dichlorobromomethane	83		10.080					
69 2-Chloroethyl vinyl ether	63		10.199					
70 2-Nitropropane	43		10.247					
71 Epichlorohydrin	57		10.341					
72 cis-1,3-Dichloropropene	75		10.401					
73 4-Methyl-2-pentanone (MIBK)	43		10.436					
74 Toluene	92		10.661					
75 Ethyl methacrylate	69		10.733					
76 2-Methylthiophene	97		10.792					
77 trans-1,3-Dichloropropene	75		10.816					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
78 3-Methylthiophene	97		10.911					
79 1,1,2-Trichloroethane	83		10.993					
80 2-Hexanone	43		11.076					
81 Tetrachloroethene	166		11.112					
82 1,3-Dichloropropane	76		11.136					
83 Chlorodibromomethane	129		11.361					
84 Ethylene Dibromide	107		11.492					
85 3-Chlorobenzotrifluoride	180		11.634					
146 1-Chlorohexane	55		11.646					
86 4-Chlorobenzotrifluoride	180		11.670					
87 Chlorobenzene	112		11.824					
88 Ethylbenzene	91		11.824					
89 1,1,1,2-Tetrachloroethane	131		11.859					
90 m-Xylene & p-Xylene	106		11.907					
91 o-Xylene	106		12.250					
92 Styrene	104		12.262					
93 2-Chlorobenzotrifluoride	180		12.429					
94 Isopropylbenzene	105		12.523					
95 Bromoform	173		12.547					
96 Cyclohexanone	55		12.749					
97 1,1,2,2-Tetrachloroethane	83		12.820					
98 trans-1,4-Dichloro-2-butene	53		12.843					
99 N-Propylbenzene	91		12.867					
100 1,2,3-Trichloropropane	110		12.903					
101 Bromobenzene	156		12.926					
102 1,3,5-Trimethylbenzene	105		12.986					
103 2-Chlorotoluene	126		13.045					
104 3-Chlorotoluene	126		13.081					
105 4-Chlorotoluene	126		13.128					
106 tert-Butylbenzene	134		13.318					
107 1,2,4-Trimethylbenzene	105		13.353					
108 Pentachloroethane	167		13.448					
109 sec-Butylbenzene	105		13.519					
110 4-Isopropyltoluene	119		13.614					
111 1,3-Dichlorobenzene	146		13.757					
112 1,2,3-Trimethylbenzene	105		13.804					
113 1,4-Dichlorobenzene	146		13.840					
114 Dicyclopentadiene	66		13.852					
150 Benzyl chloride	126		13.958					
115 n-Butylbenzene	91		14.029					
116 1,2-Dichlorobenzene	146		14.255					
117 1,2-Dibromo-3-Chloropropane	75		15.144					
118 1,3,5-Trichlorobenzene	180		15.310					
119 1,2,4-Trichlorobenzene	180		16.176					
120 Hexachlorobutadiene	225		16.271					
121 Naphthalene	128		16.614					
122 1,2,3-Trichlorobenzene	180		16.982					
149 2-Methylnaphthalene	142	18.571	18.583	-0.012	1	3948	0.2490	
144 1-Bromopropane TIC	1		0.0					
137 Nitrobenzene	77		0.0					
143 Propene oxide TIC	1		0.0					
145 Ethylene oxide TIC	1		0.0					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
138 Methyl acrylate	1		0.0					
139 cis-1,4-Dichloro-2-butene	88		0.0					
136 Hexachloroethane	117		0.0					
S 123 Total BTEX	1		30.000					
S 124 Xylenes, Total	1		30.000					
S 125 1,2-Dichloroethene, Total	1		30.000					
S 126 1,3-Dichloropropene, Total	1		30.000					
T 128 Hexachloroethane TIC	117		0.0					
T 129 Aziridine TIC	1		0.0					
T 127 Ethanol TIC	45		0.0					
T 7 Ethylene oxide	1		0.0					
T 9 bis(2-chloromethyl)ether TIC	1		0.0					
T 130 bis(chloromethyl)ether TIC	1		0.0					
T 131 Bromoethane TIC	1		0.0					
T 132 Pentachloroethane TIC	1		0.0					
T 133 1-Bromopropane	1		0.0					
T 134 tert-amyl alcohol TIC	1		0.0					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36821.D

Injection Date: 07-Feb-2014 12:44:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: MB

Lab Sample ID: MB 480-164966/6-A

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

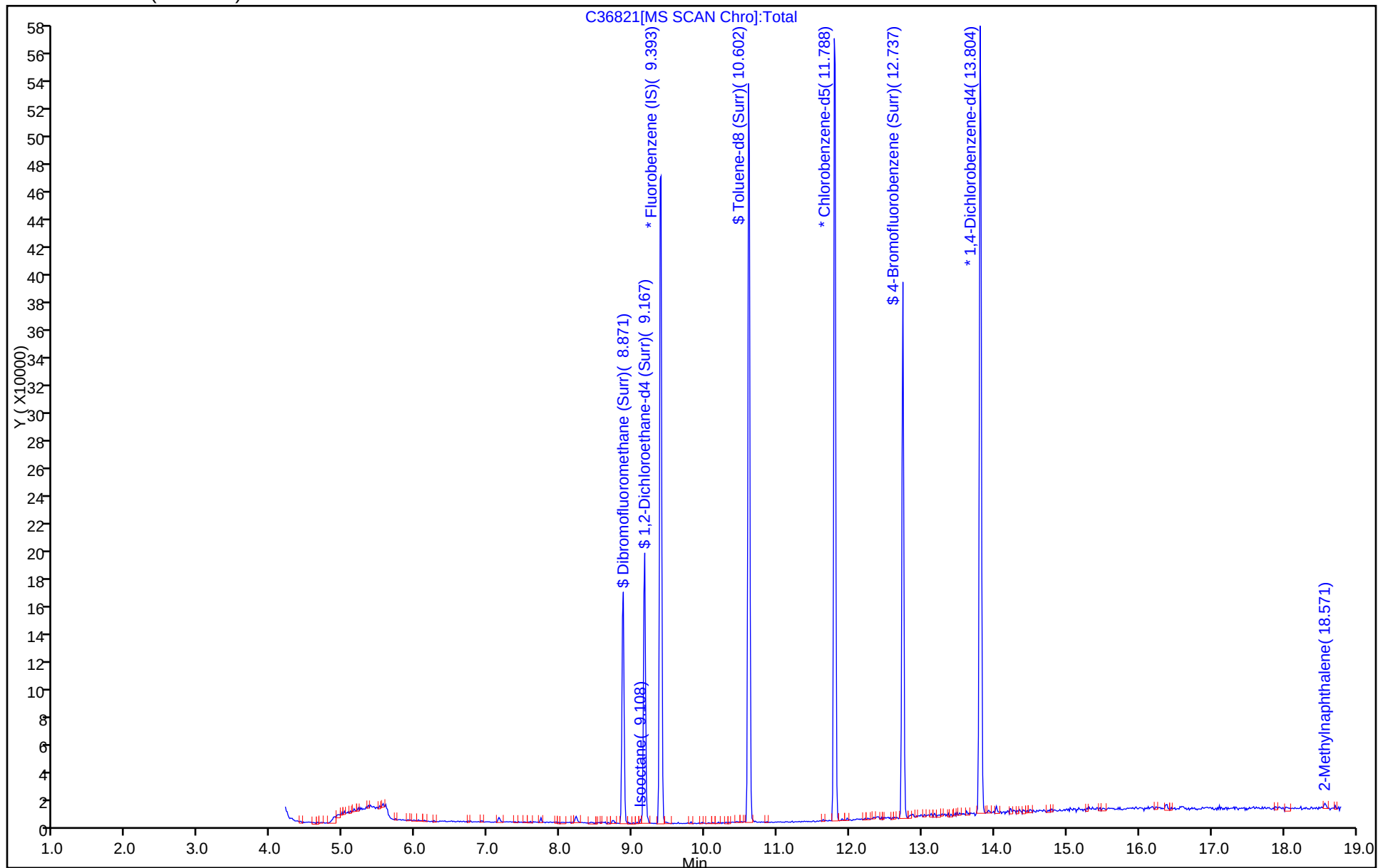
Dil. Factor: 1.0000

ALS Bottle#: 91

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-165079/6

Matrix: Water Lab File ID: C36838.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2014 00:28

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 165079 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.35
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.41
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.89
591-78-6	2-Hexanone	5.0	U	5.0	1.2
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-165079/6

Matrix: Water Lab File ID: C36838.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2014 00:28

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 165079 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.75
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
104-51-8	n-Butylbenzene	1.0	U	1.0	0.64
103-65-1	N-Propylbenzene	1.0	U	1.0	0.69
95-47-6	o-Xylene	1.0	U	1.0	0.76
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.75
100-42-5	Styrene	1.0	U	1.0	0.73
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.81
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.86
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.84
108-86-1	Bromobenzene	1.0	U	1.0	0.80
74-95-3	Dibromomethane	1.0	U	1.0	0.41
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.28
91-20-3	Naphthalene	1.0	U	1.0	0.43
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66
75-01-4	Vinyl chloride	1.0	U	1.0	0.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-165079/6
Matrix: Water Lab File ID: C36838.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5(mL) Date Analyzed: 02/08/2014 00:28
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 165079 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		66-137
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
2037-26-5	Toluene-d8 (Surr)	106		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36838.D
 Lims ID: MB Lab Sample ID: MB 480-165080/6-A
 Client ID:
 Sample Type: MB
 Inject. Date: 08-Feb-2014 00:28:30 ALS Bottle#: 10 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0029375-006
 Operator ID: RAL Instrument ID: HP5973C
 Method: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Feb-2014 00:53:43 Calib Date: 03-Feb-2014 23:32:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973C\20140203-29245.b\C36656.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: larsonr

Date: 08-Feb-2014 00:53:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.393	9.381	0.012	98	441281	25.0	
* 2 Chlorobenzene-d5	82	11.788	11.788	0.0	91	194558	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.804	13.804	0.0	96	182224	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	8.871	8.871	0.0	53	103680	28.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.167	9.167	0.0	0	69301	27.2	
\$ 5 Toluene-d8 (Surr)	98	10.614	10.602	0.012	94	366103	26.4	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	85	112481	27.1	
10 Dichlorodifluoromethane	85		4.460					
11 Chlorodifluoromethane	51		4.507					
12 Chloromethane	50		4.851					
13 Vinyl chloride	62		5.088					
151 Butadiene	54		5.135					
14 Bromomethane	94		5.693					
15 Chloroethane	64		5.835					
16 Dichlorofluoromethane	67		6.108					
17 Trichlorofluoromethane	101		6.179					
148 Ethanol	45		6.428					
18 Ethyl ether	59		6.487					
19 Propene oxide	58		6.642					
20 Acrolein	56		6.736					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.760					
22 1,1-Dichloroethene	96		6.819					
23 Acetone	43		6.879					
24 Isopropyl alcohol	45		6.985					
25 Iodomethane	142		7.057					
26 Carbon disulfide	76		7.140					
27 Methyl acetate	43		7.175					
28 3-Chloro-1-propene	41		7.199					
29 Acetonitrile	40		7.234					
30 Methylene Chloride	84	7.353	7.341	0.012	61	2760	0.3405	
31 2-Methyl-2-propanol	59		7.365					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
32 Methyl tert-butyl ether	73		7.519					
34 trans-1,2-Dichloroethene	96		7.578					
33 Acrylonitrile	53		7.590					
35 Hexane	57		7.721					
135 Halothane	117		7.887					
36 Isopropyl ether	45		7.887					
37 Vinyl acetate	43		7.922					
39 1,1-Dichloroethane	63		7.981					
38 1,1-Dimethoxyethane	75		7.982					
40 2-Chloro-1,3-butadiene	53		8.041					
41 Tert-butyl ethyl ether	59		8.195					
42 Ethyl acetate	43		8.408					
43 2-Butanone (MEK)	43		8.444					
44 2,2-Dichloropropane	77		8.468					
45 cis-1,2-Dichloroethene	96		8.480					
46 Propionitrile	54		8.563					
47 Methacrylonitrile	41		8.657					
48 Chlorobromomethane	128		8.705					
49 Tetrahydrofuran	42		8.717					
50 Chloroform	83		8.717					
51 1,1,1-Trichloroethane	97		8.895					
52 Cyclohexane	56		8.918					
53 Isobutyl alcohol	43		8.966					
54 1,1-Dichloropropene	75		9.001					
55 Carbon tetrachloride	117		9.025					
147 t-Amyl alcohol	59		9.061					
152 Isooctane	57		9.120					
56 Tert-amyl methyl ether	73		9.156					
57 Benzene	78		9.191					
59 n-Heptane	43		9.203					
58 1,2-Dichloroethane	62		9.215					
1 1,4-Difluorobenzene	114		9.417					
60 n-Butanol	56		9.476					
141 2,4,4-Trimethyl-1-pentene	55		9.523					
142 Ethyl acrylate	55		9.618					
62 Trichloroethene	95		9.665					
140 2,4,4-Trimethyl-2-pentene	97		9.677					
64 Methylcyclohexane	83		9.808					
63 Methyl methacrylate	41		9.808					
65 1,2-Dichloropropane	63		9.879					
66 1,4-Dioxane	88		9.950					
67 Dibromomethane	93		10.009					
68 Dichlorobromomethane	83		10.080					
69 2-Chloroethyl vinyl ether	63		10.199					
70 2-Nitropropane	43		10.246					
71 Epichlorohydrin	57		10.341					
72 cis-1,3-Dichloropropene	75		10.401					
73 4-Methyl-2-pentanone (MIBK)	43		10.436					
74 Toluene	92		10.662					
75 Ethyl methacrylate	69		10.733					
76 2-Methylthiophene	97		10.792					
77 trans-1,3-Dichloropropene	75		10.816					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
78 3-Methylthiophene	97		10.922					
79 1,1,2-Trichloroethane	83		10.994					
80 2-Hexanone	43		11.077					
81 Tetrachloroethene	166		11.112					
82 1,3-Dichloropropane	76		11.136					
83 Chlorodibromomethane	129		11.361					
84 Ethylene Dibromide	107		11.492					
85 3-Chlorobenzotrifluoride	180		11.634					
146 1-Chlorohexane	55		11.646					
86 4-Chlorobenzotrifluoride	180		11.681					
87 Chlorobenzene	112		11.824					
88 Ethylbenzene	91		11.824					
89 1,1,1,2-Tetrachloroethane	131		11.859					
90 m-Xylene & p-Xylene	106		11.895					
91 o-Xylene	106		12.251					
92 Styrene	104		12.262					
93 2-Chlorobenzotrifluoride	180		12.428					
94 Isopropylbenzene	105		12.523					
95 Bromoform	173		12.547					
96 Cyclohexanone	55		12.749					
97 1,1,2,2-Tetrachloroethane	83		12.820					
98 trans-1,4-Dichloro-2-butene	53		12.843					
99 N-Propylbenzene	91		12.867					
100 1,2,3-Trichloropropane	110		12.903					
101 Bromobenzene	156		12.926					
102 1,3,5-Trimethylbenzene	105		12.986					
103 2-Chlorotoluene	126		13.045					
104 3-Chlorotoluene	126		13.081					
105 4-Chlorotoluene	126		13.128					
106 tert-Butylbenzene	134		13.318					
107 1,2,4-Trimethylbenzene	105		13.353					
108 Pentachloroethane	167		13.448					
109 sec-Butylbenzene	105		13.508					
110 4-Isopropyltoluene	119		13.614					
111 1,3-Dichlorobenzene	146		13.757					
112 1,2,3-Trimethylbenzene	105		13.804					
113 1,4-Dichlorobenzene	146		13.840					
114 Dicyclopentadiene	66		13.851					
150 Benzyl chloride	126		13.958					
115 n-Butylbenzene	91		14.029					
116 1,2-Dichlorobenzene	146		14.255					
117 1,2-Dibromo-3-Chloropropane	75		15.144					
118 1,3,5-Trichlorobenzene	180		15.310					
119 1,2,4-Trichlorobenzene	180		16.176					
120 Hexachlorobutadiene	225		16.271					
121 Naphthalene	128		16.614					
122 1,2,3-Trichlorobenzene	180		16.982					
149 2-Methylnaphthalene	142	18.583	18.571	0.012	1	4020	0.2498	
137 Nitrobenzene	77		0.0					
143 Propene oxide TIC	1		0.0					
144 1-Bromopropane TIC	1		0.0					
145 Ethylene oxide TIC	1		0.0					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
138 Methyl acrylate	1		0.0					
139 cis-1,4-Dichloro-2-butene	88		0.0					
136 Hexachloroethane	117		0.0					
S 123 Total BTEX	1		30.000					
S 124 Xylenes, Total	1		30.000					
S 125 1,2-Dichloroethene, Total	1		30.000					
S 126 1,3-Dichloropropene, Total	1		30.000					
T 128 Hexachloroethane TIC	117		0.0					
T 129 Aziridine TIC	1		0.0					
T 127 Ethanol TIC	45		0.0					
T 7 Ethylene oxide	1		0.0					
T 9 bis(2-chloromethyl)ether TIC	1		0.0					
T 130 bis(chloromethyl)ether TIC	1		0.0					
T 131 Bromoethane TIC	1		0.0					
T 132 Pentachloroethane TIC	1		0.0					
T 133 1-Bromopropane	1		0.0					
T 134 tert-amyl alcohol TIC	1		0.0					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36838.D

Injection Date: 08-Feb-2014 00:28:30

Instrument ID: HP5973C

Operator ID: RAL

Lims ID: MB

Lab Sample ID: MB 480-165080/6-A

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

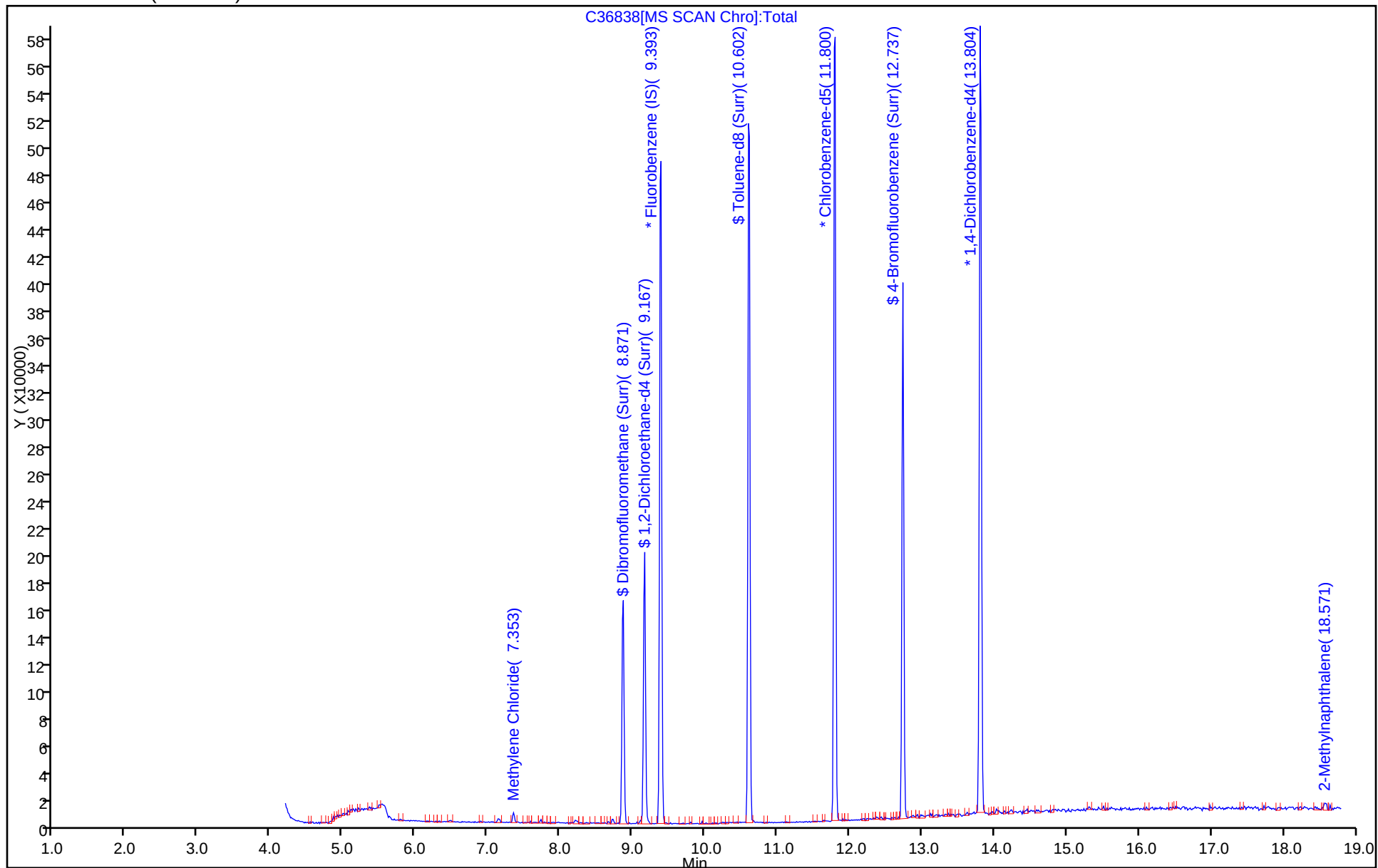
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-164965/4

Matrix: Water Lab File ID: C36819.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 11:53

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 164965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	25.8		1.0	0.35
71-55-6	1,1,1-Trichloroethane	26.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.1		1.0	0.21
79-00-5	1,1,2-Trichloroethane	25.8		1.0	0.23
75-34-3	1,1-Dichloroethane	26.5		1.0	0.38
75-35-4	1,1-Dichloroethene	26.4		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	24.5		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	26.0		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	25.1		1.0	0.39
106-93-4	1,2-Dibromoethane	25.2		1.0	0.73
95-50-1	1,2-Dichlorobenzene	24.9		1.0	0.79
107-06-2	1,2-Dichloroethane	26.3		1.0	0.21
78-87-5	1,2-Dichloropropane	26.6		1.0	0.72
563-58-6	1,1-Dichloropropene	26.3		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	26.0		1.0	0.77
541-73-1	1,3-Dichlorobenzene	25.0		1.0	0.78
87-61-6	1,2,3-Trichlorobenzene	23.9		1.0	0.41
106-46-7	1,4-Dichlorobenzene	24.6		1.0	0.84
78-93-3	2-Butanone (MEK)	150		10	1.3
96-18-4	1,2,3-Trichloropropane	26.3		1.0	0.89
591-78-6	2-Hexanone	187		5.0	1.2
99-87-6	p-Isopropyltoluene	26.4		1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	131		5.0	2.1
67-64-1	Acetone	129		10	3.0
71-43-2	Benzene	25.9		1.0	0.41
75-27-4	Bromodichloromethane	27.0		1.0	0.39
75-25-2	Bromoform	26.3		1.0	0.26
74-83-9	Bromomethane	23.8		1.0	0.69
75-15-0	Carbon disulfide	26.3		1.0	0.19
56-23-5	Carbon tetrachloride	26.3		1.0	0.27
108-90-7	Chlorobenzene	25.1		1.0	0.75
75-00-3	Chloroethane	23.7		1.0	0.32
67-66-3	Chloroform	26.5		1.0	0.34
74-87-3	Chloromethane	22.5		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.3		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	29.0		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-164965/4

Matrix: Water Lab File ID: C36819.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 11:53

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 164965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	25.9		1.0	0.32
75-71-8	Dichlorodifluoromethane	22.7		1.0	0.68
100-41-4	Ethylbenzene	25.8		1.0	0.74
98-82-8	Isopropylbenzene	25.9		1.0	0.79
179601-23-1	m,p-Xylene	25.9		2.0	0.66
142-28-9	1,3-Dichloropropane	25.8		1.0	0.75
1634-04-4	Methyl tert-butyl ether	27.2		1.0	0.16
108-87-2	Methylcyclohexane	26.5		1.0	0.16
75-09-2	Methylene Chloride	25.3		1.0	0.44
104-51-8	n-Butylbenzene	26.4		1.0	0.64
103-65-1	N-Propylbenzene	26.1		1.0	0.69
95-47-6	o-Xylene	26.3		1.0	0.76
135-98-8	sec-Butylbenzene	26.2		1.0	0.75
100-42-5	Styrene	26.5		1.0	0.73
594-20-7	2,2-Dichloropropane	27.9		1.0	0.40
98-06-6	tert-Butylbenzene	26.1		1.0	0.81
127-18-4	Tetrachloroethene	25.7		1.0	0.36
108-88-3	Toluene	25.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	28.3		1.0	0.37
95-49-8	2-Chlorotoluene	29.9		1.0	0.86
79-01-6	Trichloroethene	26.8		1.0	0.46
75-69-4	Trichlorofluoromethane	24.7		1.0	0.88
106-43-4	4-Chlorotoluene	28.3		1.0	0.84
108-86-1	Bromobenzene	25.7		1.0	0.80
74-95-3	Dibromomethane	26.2		1.0	0.41
87-68-3	Hexachlorobutadiene	25.7		1.0	0.28
91-20-3	Naphthalene	25.0		1.0	0.43
1330-20-7	Xylenes, Total	52.2		2.0	0.66
75-01-4	Vinyl chloride	23.5		1.0	0.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 480-164965/4
Matrix: Water Lab File ID: C36819.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 11:53
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 164965 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	124		66-137
460-00-4	4-Bromofluorobenzene (Surr)	114		73-120
2037-26-5	Toluene-d8 (Surr)	111		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36819.D
 Lims ID: LCS Lab Sample ID: LCS 480-164966/4-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 07-Feb-2014 11:53:30 ALS Bottle#: 89 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0029361-004
 Operator ID: LH Instrument ID: HP5973C
 Method: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 07-Feb-2014 12:44:39 Calib Date: 03-Feb-2014 23:32:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973C\20140203-29245.b\C36656.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 07-Feb-2014 12:44:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.381	9.381	0.0	97	431958	25.0	
* 2 Chlorobenzene-d5	82	11.788	11.788	0.0	93	190940	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.804	13.804	0.0	87	183416	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	8.859	8.859	0.0	55	104329	28.8	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.167	9.156	0.011	0	77377	31.0	
\$ 5 Toluene-d8 (Surr)	98	10.602	10.602	0.0	95	378197	27.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	84	115747	28.4	
10 Dichlorodifluoromethane	85	4.460	4.471	-0.011	86	182958	22.7	
11 Chlorodifluoromethane	51	4.495	4.495	0.0	79	608117	43.8	
12 Chloromethane	50	4.863	4.863	0.0	89	274317	22.5	
13 Vinyl chloride	62	5.100	5.100	0.0	84	246032	23.5	
151 Butadiene	54	5.135	5.147	-0.012	94	248318	22.1	
14 Bromomethane	94	5.693	5.705	-0.012	90	145318	23.8	
15 Chloroethane	64	5.835	5.835	0.0	93	149111	23.7	
16 Dichlorofluoromethane	67	6.120	6.120	0.0	83	381526	24.1	
17 Trichlorofluoromethane	101	6.191	6.191	0.0	83	290354	24.7	
148 Ethanol	45	6.440	6.428	0.012	98	67832	590.2	
18 Ethyl ether	59	6.487	6.487	0.0	95	192481	26.5	
19 Propene oxide	58	6.641	6.630	0.011	95	242737	NC	
20 Acrolein	56	6.736	6.736	0.0	96	182797	139.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.760	6.760	0.0	86	192289	26.3	
22 1,1-Dichloroethene	96	6.819	6.819	0.0	83	174238	26.4	
23 Acetone	43	6.890	6.890	0.0	98	351698	129.0	
24 Isopropyl alcohol	45	6.985	6.974	0.011	98	136854	202.1	
25 Iodomethane	142	7.057	7.068	-0.011	99	313853	25.9	
26 Carbon disulfide	76	7.140	7.151	-0.011	99	647141	26.3	
27 Methyl acetate	43	7.175	7.175	0.0	99	899451	132.1	
28 3-Chloro-1-propene	41	7.199	7.199	0.0	70	671508	45.8	
29 Acetonitrile	40	7.234	7.235	-0.001	96	188771	255.6	
30 Methylene Chloride	84	7.353	7.353	0.0	92	200546	25.3	
31 2-Methyl-2-propanol	59	7.377	7.377	0.0	98	233633	215.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
32 Methyl tert-butyl ether	73	7.519	7.519	0.0	93	578620	27.2	
34 trans-1,2-Dichloroethene	96	7.590	7.590	0.0	89	190899	26.0	
33 Acrylonitrile	53	7.602	7.602	0.0	98	884730	256.9	
35 Hexane	57	7.732	7.732	0.0	95	331681	26.2	
36 Isopropyl ether	45	7.887	7.887	0.0	96	715478	23.8	
37 Vinyl acetate	43	7.934	7.934	0.0	88	1178736	70.6	
39 1,1-Dichloroethane	63	7.981	7.981	0.0	83	406443	26.5	
38 1,1-Dimethoxyethane	75	7.981	7.982	-0.001	75	143750	99.0	
40 2-Chloro-1,3-butadiene	53	8.041	8.029	0.012	81	335124	24.1	
41 Tert-butyl ethyl ether	59	8.195	8.195	0.0	98	650301	23.4	
42 Ethyl acetate	43	8.432	8.409	0.024	93	521503	61.9	M
43 2-Butanone (MEK)	43	8.444	8.444	0.0	98	592269	150.0	M
44 2,2-Dichloropropane	77	8.480	8.479	0.001	83	306547	27.9	
45 cis-1,2-Dichloroethene	96	8.480	8.479	0.001	75	208037	26.3	
46 Propionitrile	54	8.551	8.551	0.0	98	295397	218.2	
47 Methacrylonitrile	41	8.657	8.658	-0.001	96	1335346	233.1	
48 Chlorobromomethane	128	8.705	8.705	0.0	83	107165	26.9	
49 Tetrahydrofuran	42	8.717	8.717	0.0	56	153869	50.1	
50 Chloroform	83	8.717	8.717	0.0	83	346039	26.5	
51 1,1,1-Trichloroethane	97	8.895	8.895	0.0	91	304089	26.9	
52 Cyclohexane	56	8.930	8.930	0.0	94	435262	25.5	
53 Isobutyl alcohol	43	8.966	8.966	0.0	90	234212	459.7	
54 1,1-Dichloropropene	75	9.001	9.001	0.0	90	247981	26.3	
55 Carbon tetrachloride	117	9.025	9.025	0.0	79	268019	26.3	
147 t-Amyl alcohol	59	9.061	9.061	0.0	90	567273	221.0	
152 Isooctane	57	9.120	9.108	0.012	88	687635	22.8	
56 Tert-amyl methyl ether	73	9.155	9.156	-0.001	89	505583	24.2	
59 n-Heptane	43	9.215	9.203	0.012	96	341030	26.7	
57 Benzene	78	9.203	9.203	0.0	95	735421	25.9	
58 1,2-Dichloroethane	62	9.227	9.227	0.0	86	317505	26.3	
60 n-Butanol	56	9.476	9.476	0.0	81	140041	224.2	
142 Ethyl acrylate	55	9.618	9.618	0.0	96	241956	23.6	
62 Trichloroethene	95	9.677	9.665	0.012	91	189768	26.8	
64 Methylcyclohexane	83	9.808	9.808	0.0	67	313983	26.5	
63 Methyl methacrylate	41	9.808	9.808	0.0	84	539859	69.6	
65 1,2-Dichloropropane	63	9.879	9.879	0.0	90	217838	26.6	
66 1,4-Dioxane	88	9.950	9.950	0.0	85	26421	287.7	
67 Dibromomethane	93	10.021	10.021	0.0	87	117794	26.2	
68 Dichlorobromomethane	83	10.080	10.080	0.0	87	258368	27.0	
69 2-Chloroethyl vinyl ether	63	10.199	10.199	0.0	93	126482	27.3	
70 2-Nitropropane	43	10.246	10.247	-0.001	89	128766	51.3	
72 cis-1,3-Dichloropropene	75	10.401	10.401	0.0	86	299736	29.0	
73 4-Methyl-2-pentanone (MIBK)	43	10.436	10.436	0.0	98	1194850	131.5	
74 Toluene	92	10.662	10.661	0.001	94	449222	25.5	
75 Ethyl methacrylate	69	10.733	10.733	0.0	92	226072	27.7	
77 trans-1,3-Dichloropropene	75	10.816	10.816	0.0	95	265710	28.3	
79 1,1,2-Trichloroethane	83	10.994	10.993	0.001	90	137741	25.8	
80 2-Hexanone	43	11.077	11.076	0.001	95	1131487	187.1	
81 Tetrachloroethene	166	11.112	11.112	0.0	90	199693	25.7	
82 1,3-Dichloropropane	76	11.136	11.136	0.0	94	290000	25.8	
83 Chlorodibromomethane	129	11.361	11.361	0.0	90	190224	25.9	
84 Ethylene Dibromide	107	11.492	11.492	0.0	98	161799	25.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
85 3-Chlorobenzotrifluoride	180	11.634	11.634	0.0	93	266983	22.4	
146 1-Chlorohexane	55	11.646	11.646	0.0	90	200535	23.2	
86 4-Chlorobenzotrifluoride	180	11.681	11.670	0.011	93	240028	22.6	
87 Chlorobenzene	112	11.824	11.824	0.0	85	496908	25.1	
88 Ethylbenzene	91	11.824	11.824	0.0	96	866690	25.8	
89 1,1,1,2-Tetrachloroethane	131	11.859	11.859	0.0	72	187534	25.8	
90 m-Xylene & p-Xylene	106	11.907	11.907	0.0	0	333925	25.9	
91 o-Xylene	106	12.251	12.250	0.001	93	323747	26.3	
92 Styrene	104	12.262	12.262	0.0	86	524705	26.5	
93 2-Chlorobenzotrifluoride	180	12.428	12.429	-0.001	97	245254	22.8	
94 Isopropylbenzene	105	12.523	12.523	0.0	97	850339	25.9	
95 Bromoform	173	12.547	12.547	0.0	93	119622	26.3	
96 Cyclohexanone	55	12.749	12.749	0.0	89	67092	208.7	
97 1,1,2,2-Tetrachloroethane	83	12.820	12.820	0.0	87	221910	25.1	
98 trans-1,4-Dichloro-2-butene	53	12.843	12.843	0.0	77	71479	28.1	
99 N-Propylbenzene	91	12.867	12.867	0.0	98	1039432	26.1	
100 1,2,3-Trichloropropane	110	12.903	12.903	0.0	68	69598	26.3	
101 Bromobenzene	156	12.926	12.926	0.0	80	215644	25.7	
102 1,3,5-Trimethylbenzene	105	12.986	12.986	0.0	84	718237	26.0	
103 2-Chlorotoluene	126	13.045	13.045	0.0	94	242206	29.9	
104 3-Chlorotoluene	126	13.081	13.081	0.0	97	201646	24.9	
105 4-Chlorotoluene	126	13.128	13.128	0.0	99	230602	28.3	
106 tert-Butylbenzene	134	13.318	13.318	0.0	93	151316	26.1	
107 1,2,4-Trimethylbenzene	105	13.353	13.353	0.0	99	756228	26.0	
108 Pentachloroethane	167	13.448	13.448	0.0	88	108313	24.4	
109 sec-Butylbenzene	105	13.519	13.519	0.0	95	918096	26.2	
110 4-Isopropyltoluene	119	13.614	13.614	0.0	95	787477	26.4	
111 1,3-Dichlorobenzene	146	13.757	13.757	0.0	97	415132	25.0	
112 1,2,3-Trimethylbenzene	105	13.804	13.804	0.0	96	678845	24.0	
113 1,4-Dichlorobenzene	146	13.840	13.840	0.0	93	420943	24.6	
114 Dicyclopentadiene	66	13.851	13.852	-0.001	67	222480	20.4	
150 Benzyl chloride	126	13.958	13.958	0.0	99	78925	25.0	
115 n-Butylbenzene	91	14.029	14.029	0.0	97	732405	26.4	
116 1,2-Dichlorobenzene	146	14.255	14.255	0.0	96	401974	24.9	
117 1,2-Dibromo-3-Chloropropane	75	15.144	15.144	0.0	61	43552	25.1	
118 1,3,5-Trichlorobenzene	180	15.310	15.310	0.0	92	278558	22.5	
119 1,2,4-Trichlorobenzene	180	16.176	16.176	0.0	92	298235	24.5	
120 Hexachlorobutadiene	225	16.271	16.271	0.0	91	122605	25.7	
121 Naphthalene	128	16.614	16.614	0.0	97	720248	25.0	
122 1,2,3-Trichlorobenzene	180	16.982	16.982	0.0	94	279236	23.9	
149 2-Methylnaphthalene	142	18.571	18.583	-0.012	89	379566	23.4	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36819.D

Injection Date: 07-Feb-2014 11:53:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: LCS

Lab Sample ID: LCS 480-164966/4-A

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

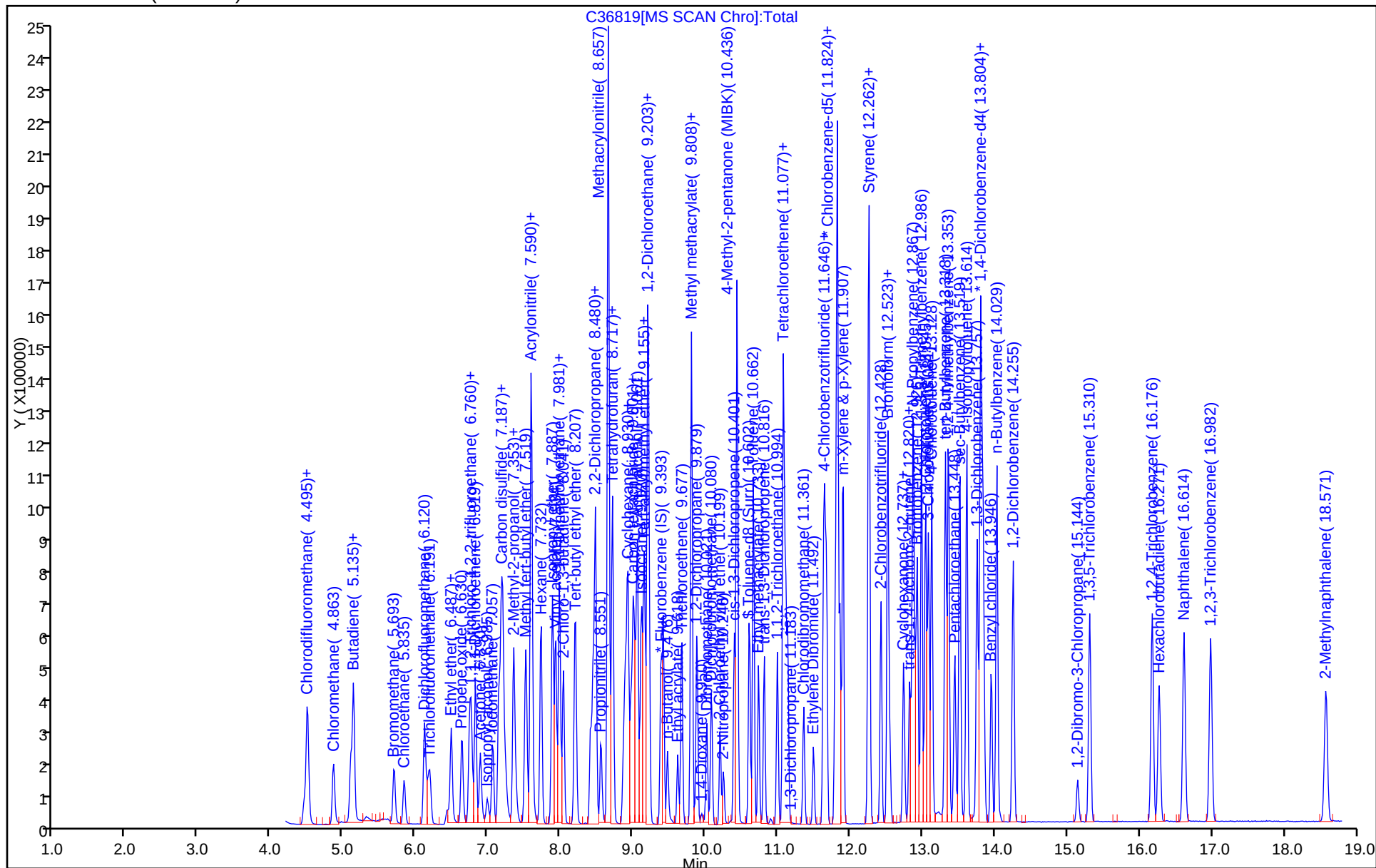
Dil. Factor: 1.0000

ALS Bottle#: 89

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29361.b\C36819.D

Injection Date: 07-Feb-2014 11:53:30

Instrument ID: HP5973C

Lims ID: LCS

Lab Sample ID: LCS 480-164966/4-A

Client ID:

Operator ID: LH

ALS Bottle#: 89 Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

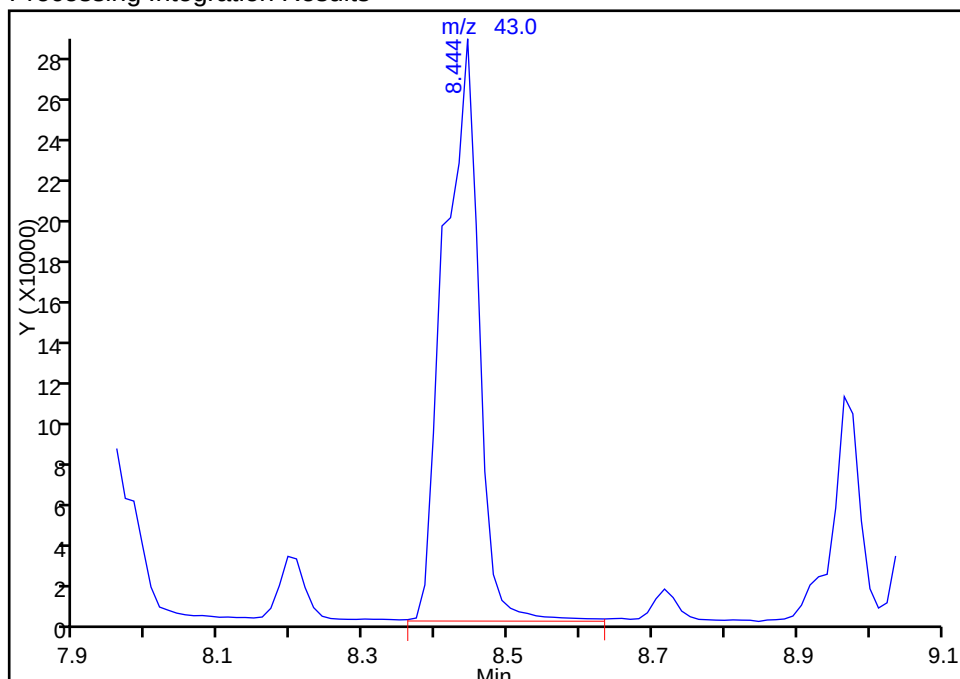
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

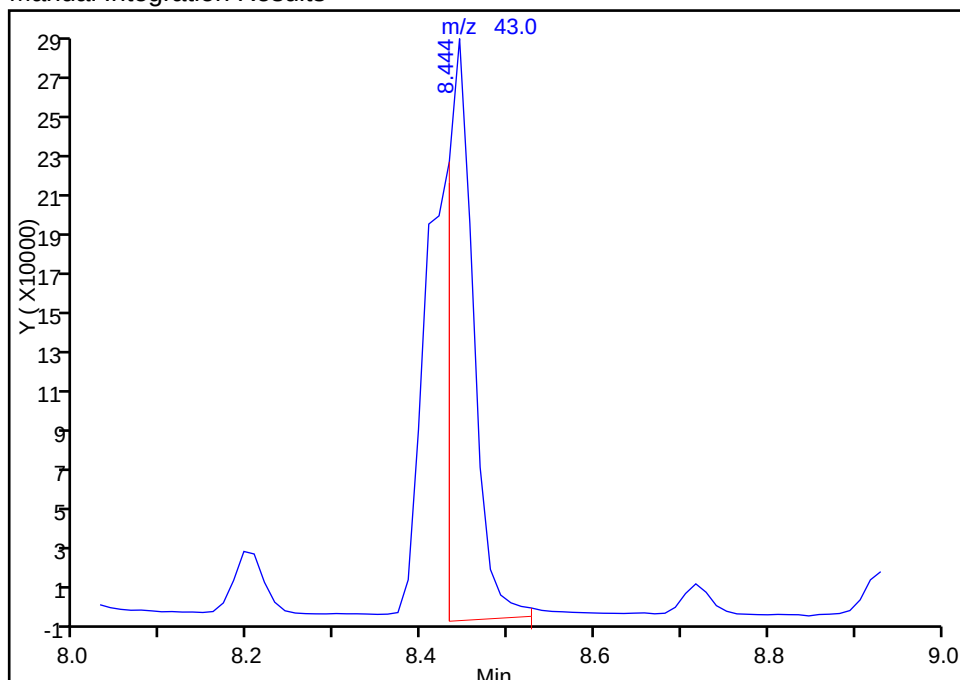
RT: 8.44
Response: 947632
Amount: 239.9539

Processing Integration Results



RT: 8.44
Response: 592269
Amount: 149.9709

Manual Integration Results



Reviewer: HillL, 07-Feb-2014 12:44:39

Audit Action: Manually Integrated

Audit Reason: Coelution

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-165079/4

Matrix: Water Lab File ID: C36836.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 23:38

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 165079 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	24.3		1.0	0.35
71-55-6	1,1,1-Trichloroethane	25.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	23.6		1.0	0.21
79-00-5	1,1,2-Trichloroethane	24.5		1.0	0.23
75-34-3	1,1-Dichloroethane	25.0		1.0	0.38
75-35-4	1,1-Dichloroethene	24.7		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.3		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	24.4		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	23.0		1.0	0.39
106-93-4	1,2-Dibromoethane	24.0		1.0	0.73
95-50-1	1,2-Dichlorobenzene	23.8		1.0	0.79
107-06-2	1,2-Dichloroethane	24.7		1.0	0.21
78-87-5	1,2-Dichloropropane	25.0		1.0	0.72
563-58-6	1,1-Dichloropropene	24.6		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	24.4		1.0	0.77
541-73-1	1,3-Dichlorobenzene	23.2		1.0	0.78
87-61-6	1,2,3-Trichlorobenzene	23.2		1.0	0.41
106-46-7	1,4-Dichlorobenzene	23.3		1.0	0.84
78-93-3	2-Butanone (MEK)	175		10	1.3
96-18-4	1,2,3-Trichloropropane	24.5		1.0	0.89
591-78-6	2-Hexanone	184		5.0	1.2
99-87-6	p-Isopropyltoluene	24.7		1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	123		5.0	2.1
67-64-1	Acetone	120		10	3.0
71-43-2	Benzene	24.4		1.0	0.41
75-27-4	Bromodichloromethane	25.4		1.0	0.39
75-25-2	Bromoform	25.1		1.0	0.26
74-83-9	Bromomethane	23.1		1.0	0.69
75-15-0	Carbon disulfide	24.5		1.0	0.19
56-23-5	Carbon tetrachloride	24.8		1.0	0.27
108-90-7	Chlorobenzene	24.1		1.0	0.75
75-00-3	Chloroethane	23.3		1.0	0.32
67-66-3	Chloroform	24.7		1.0	0.34
74-87-3	Chloromethane	20.7		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	26.9		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-165079/4

Matrix: Water Lab File ID: C36836.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 23:38

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 165079 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	24.6		1.0	0.32
75-71-8	Dichlorodifluoromethane	18.8		1.0	0.68
100-41-4	Ethylbenzene	24.5		1.0	0.74
98-82-8	Isopropylbenzene	24.3		1.0	0.79
179601-23-1	m,p-Xylene	24.8		2.0	0.66
142-28-9	1,3-Dichloropropane	24.3		1.0	0.75
1634-04-4	Methyl tert-butyl ether	25.5		1.0	0.16
108-87-2	Methylcyclohexane	25.1		1.0	0.16
75-09-2	Methylene Chloride	25.9		1.0	0.44
104-51-8	n-Butylbenzene	24.8		1.0	0.64
103-65-1	N-Propylbenzene	24.4		1.0	0.69
95-47-6	o-Xylene	25.3		1.0	0.76
135-98-8	sec-Butylbenzene	24.4		1.0	0.75
100-42-5	Styrene	25.1		1.0	0.73
594-20-7	2,2-Dichloropropane	26.2		1.0	0.40
98-06-6	tert-Butylbenzene	24.2		1.0	0.81
127-18-4	Tetrachloroethene	24.9		1.0	0.36
108-88-3	Toluene	24.0		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.7		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.3		1.0	0.37
95-49-8	2-Chlorotoluene	23.3		1.0	0.86
79-01-6	Trichloroethene	25.3		1.0	0.46
75-69-4	Trichlorofluoromethane	23.9		1.0	0.88
106-43-4	4-Chlorotoluene	26.3		1.0	0.84
108-86-1	Bromobenzene	23.7		1.0	0.80
74-95-3	Dibromomethane	24.7		1.0	0.41
87-68-3	Hexachlorobutadiene	24.2		1.0	0.28
91-20-3	Naphthalene	23.8		1.0	0.43
1330-20-7	Xylenes, Total	50.1		2.0	0.66
75-01-4	Vinyl chloride	22.0		1.0	0.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 480-165079/4
Matrix: Water Lab File ID: C36836.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5(mL) Date Analyzed: 02/07/2014 23:38
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (30) ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 165079 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	122		66-137
460-00-4	4-Bromofluorobenzene (Surr)	113		73-120
2037-26-5	Toluene-d8 (Surr)	111		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36836.D
 Lims ID: LCS Lab Sample ID: LCS 480-165080/4-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 07-Feb-2014 23:38:30 ALS Bottle#: 8 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0029375-004
 Operator ID: RAL Instrument ID: HP5973C
 Method: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Feb-2014 14:23:03 Calib Date: 03-Feb-2014 23:32:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973C\20140203-29245.b\C36656.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK052

First Level Reviewer: larsonr

Date: 08-Feb-2014 00:18:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	9.393	9.381	0.012	98	431039	25.0	
* 2 Chlorobenzene-d5	82	11.788	11.788	0.0	91	189038	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.804	13.804	0.0	84	184445	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	8.859	8.871	-0.012	59	103094	28.5	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	9.167	9.167	0.0	0	75689	30.4	
\$ 5 Toluene-d8 (Surr)	98	10.602	10.602	0.0	95	372348	27.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	12.737	12.737	0.0	84	113385	28.1	
10 Dichlorodifluoromethane	85	4.459	4.460	-0.001	84	150905	18.8	
11 Chlorodifluoromethane	51	4.495	4.507	-0.012	80	663027	47.8	
12 Chloromethane	50	4.863	4.851	0.012	89	250866	20.7	
13 Vinyl chloride	62	5.100	5.088	0.012	84	230063	22.0	
151 Butadiene	54	5.135	5.135	0.0	93	237380	21.2	
14 Bromomethane	94	5.705	5.693	0.012	91	141199	23.1	
15 Chloroethane	64	5.835	5.835	0.0	93	146066	23.3	
16 Dichlorofluoromethane	67	6.120	6.108	0.012	83	379924	24.1	
17 Trichlorofluoromethane	101	6.179	6.179	0.0	84	280129	23.9	
148 Ethanol	45	6.440	6.428	0.012	96	64937	566.2	
18 Ethyl ether	59	6.487	6.487	0.0	96	183339	25.3	
19 Propene oxide	58	6.641	6.642	-0.001	95	257762	NC	
20 Acrolein	56	6.736	6.736	0.0	96	172651	131.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.760	6.760	0.0	87	183560	25.1	
22 1,1-Dichloroethene	96	6.819	6.819	0.0	83	162905	24.7	
23 Acetone	43	6.890	6.879	0.011	99	325621	119.7	
24 Isopropyl alcohol	45	6.985	6.985	0.0	99	139616	206.6	
25 Iodomethane	142	7.056	7.057	-0.001	99	298334	24.7	
26 Carbon disulfide	76	7.140	7.140	0.0	99	602668	24.5	
27 Methyl acetate	43	7.175	7.175	0.0	100	853156	125.5	
28 3-Chloro-1-propene	41	7.199	7.199	0.0	70	672700	46.0	
29 Acetonitrile	40	7.234	7.234	0.0	95	190393	258.3	
30 Methylene Chloride	84	7.353	7.341	0.012	93	205001	25.9	
31 2-Methyl-2-propanol	59	7.377	7.365	0.012	97	197417	182.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
32 Methyl tert-butyl ether	73	7.519	7.519	0.0	94	541515	25.5	
34 trans-1,2-Dichloroethene	96	7.590	7.578	0.012	88	180613	24.7	
33 Acrylonitrile	53	7.602	7.590	0.012	98	842465	245.1	
35 Hexane	57	7.732	7.721	0.011	95	311224	24.6	
36 Isopropyl ether	45	7.887	7.887	0.0	95	773575	25.8	
37 Vinyl acetate	43	7.934	7.922	0.012	88	1076351	64.6	
39 1,1-Dichloroethane	63	7.981	7.981	0.0	83	383114	25.0	
38 1,1-Dimethoxyethane	75	7.981	7.982	-0.001	74	123330	85.1	
40 2-Chloro-1,3-butadiene	53	8.041	8.041	0.0	80	360148	26.0	
41 Tert-butyl ethyl ether	59	8.195	8.195	0.0	98	702842	25.3	
42 Ethyl acetate	43	8.408	8.408	0.0	99	374359	44.5	
43 2-Butanone (MEK)	43	8.444	8.444	0.0	95	688267	174.7	
44 2,2-Dichloropropane	77	8.480	8.468	0.012	86	287390	26.2	
45 cis-1,2-Dichloroethene	96	8.480	8.480	0.0	75	197652	25.0	
46 Propionitrile	54	8.551	8.563	-0.012	98	311479	230.6	
47 Methacrylonitrile	41	8.657	8.657	0.0	96	1446497	253.1	
48 Chlorobromomethane	128	8.705	8.705	0.0	80	98068	24.6	
50 Chloroform	83	8.717	8.717	0.0	83	321105	24.7	
49 Tetrahydrofuran	42	8.717	8.717	0.0	82	143522	46.8	
51 1,1,1-Trichloroethane	97	8.895	8.895	0.0	91	286209	25.3	
52 Cyclohexane	56	8.930	8.918	0.012	95	419680	24.6	
53 Isobutyl alcohol	43	8.966	8.966	0.0	89	195660	384.8	
54 1,1-Dichloropropene	75	9.001	9.001	0.0	89	231501	24.6	
55 Carbon tetrachloride	117	9.025	9.025	0.0	79	252663	24.8	
147 t-Amyl alcohol	59	9.061	9.061	0.0	93	567114	221.4	
152 Isooctane	57	9.120	9.120	0.0	94	762753	25.3	
56 Tert-amyl methyl ether	73	9.155	9.156	-0.001	91	544871	26.2	
57 Benzene	78	9.203	9.191	0.012	95	691091	24.4	
59 n-Heptane	43	9.215	9.203	0.012	96	325663	25.6	
58 1,2-Dichloroethane	62	9.227	9.215	0.012	87	297764	24.7	
60 n-Butanol	56	9.476	9.476	0.0	79	138515	222.2	
142 Ethyl acrylate	55	9.618	9.618	0.0	97	254276	24.8	
62 Trichloroethene	95	9.677	9.665	0.012	92	178535	25.3	
64 Methylcyclohexane	83	9.808	9.808	0.0	65	296245	25.1	
63 Methyl methacrylate	41	9.808	9.808	0.0	85	558895	72.2	
65 1,2-Dichloropropane	63	9.879	9.879	0.0	90	204961	25.0	
66 1,4-Dioxane	88	9.950	9.950	0.0	77	20288	226.3	
67 Dibromomethane	93	10.021	10.009	0.012	87	111173	24.7	
68 Dichlorobromomethane	83	10.080	10.080	0.0	87	242297	25.4	
69 2-Chloroethyl vinyl ether	63	10.199	10.199	0.0	92	115293	24.9	
70 2-Nitropropane	43	10.246	10.246	0.0	94	135724	54.2	
72 cis-1,3-Dichloropropene	75	10.401	10.401	0.0	86	278293	26.9	
73 4-Methyl-2-pentanone (MIBK)	43	10.436	10.436	0.0	98	1109849	123.3	
74 Toluene	92	10.661	10.662	-0.001	95	418773	24.0	
75 Ethyl methacrylate	69	10.733	10.733	0.0	93	207019	25.7	
77 trans-1,3-Dichloropropene	75	10.816	10.816	0.0	95	245080	26.3	
79 1,1,2-Trichloroethane	83	10.994	10.994	0.0	90	129376	24.5	
80 2-Hexanone	43	11.077	11.077	0.0	98	1101294	183.9	
81 Tetrachloroethene	166	11.112	11.112	0.0	92	191263	24.9	
82 1,3-Dichloropropane	76	11.136	11.136	0.0	94	270399	24.3	
83 Chlorodibromomethane	129	11.361	11.361	0.0	88	178957	24.6	
84 Ethylene Dibromide	107	11.492	11.492	0.0	97	152511	24.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
85 3-Chlorobenzotrifluoride	180	11.634	11.634	0.0	90	288929	24.1	
146 1-Chlorohexane	55	11.646	11.646	0.0	90	217626	25.4	
86 4-Chlorobenzotrifluoride	180	11.681	11.681	0.0	92	258471	24.2	
87 Chlorobenzene	112	11.824	11.824	0.0	85	471596	24.1	
88 Ethylbenzene	91	11.824	11.824	0.0	93	817257	24.5	
89 1,1,1,2-Tetrachloroethane	131	11.859	11.859	0.0	71	175013	24.3	
90 m-Xylene & p-Xylene	106	11.907	11.895	0.012	0	315537	24.8	
91 o-Xylene	106	12.251	12.251	0.0	93	307901	25.3	
92 Styrene	104	12.262	12.262	0.0	86	492571	25.1	
93 2-Chlorobenzotrifluoride	180	12.428	12.428	0.0	96	258768	24.0	
94 Isopropylbenzene	105	12.523	12.523	0.0	97	803965	24.3	
95 Bromoform	173	12.547	12.547	0.0	93	112937	25.1	
96 Cyclohexanone	55	12.749	12.749	0.0	89	67031	207.4	
97 1,1,2,2-Tetrachloroethane	83	12.820	12.820	0.0	81	209617	23.6	
98 trans-1,4-Dichloro-2-butene	53	12.843	12.843	0.0	78	66131	26.1	
99 N-Propylbenzene	91	12.867	12.867	0.0	98	976602	24.4	
100 1,2,3-Trichloropropane	110	12.903	12.903	0.0	60	65277	24.5	
101 Bromobenzene	156	12.926	12.926	0.0	80	199711	23.7	
102 1,3,5-Trimethylbenzene	105	12.986	12.986	0.0	85	679532	24.4	
103 2-Chlorotoluene	126	13.045	13.045	0.0	94	189658	23.3	
104 3-Chlorotoluene	126	13.081	13.081	0.0	98	258559	31.8	
105 4-Chlorotoluene	126	13.128	13.128	0.0	99	215831	26.3	
106 tert-Butylbenzene	134	13.318	13.318	0.0	88	140797	24.2	
107 1,2,4-Trimethylbenzene	105	13.353	13.353	0.0	78	713810	24.4	
108 Pentachloroethane	167	13.448	13.448	0.0	87	115424	25.9	
109 sec-Butylbenzene	105	13.519	13.508	0.011	95	858440	24.4	
110 4-Isopropyltoluene	119	13.614	13.614	0.0	95	738340	24.7	
111 1,3-Dichlorobenzene	146	13.757	13.757	0.0	97	387464	23.2	
112 1,2,3-Trimethylbenzene	105	13.804	13.804	0.0	95	728895	25.6	
113 1,4-Dichlorobenzene	146	13.840	13.840	0.0	93	400287	23.3	
114 Dicyclopentadiene	66	13.851	13.851	0.0	74	256199	23.4	
150 Benzyl chloride	126	13.946	13.958	-0.012	99	84605	27.1	
115 n-Butylbenzene	91	14.029	14.029	0.0	97	691986	24.8	
116 1,2-Dichlorobenzene	146	14.255	14.255	0.0	96	386385	23.8	
117 1,2-Dibromo-3-Chloropropane	75	15.144	15.144	0.0	61	40146	23.0	
118 1,3,5-Trichlorobenzene	180	15.310	15.310	0.0	93	300322	24.2	
119 1,2,4-Trichlorobenzene	180	16.176	16.176	0.0	93	284825	23.3	
120 Hexachlorobutadiene	225	16.271	16.271	0.0	90	115978	24.2	
121 Naphthalene	128	16.614	16.614	0.0	97	691715	23.8	
122 1,2,3-Trichlorobenzene	180	16.982	16.982	0.0	94	272722	23.2	
149 2-Methylnaphthalene	142	18.571	18.571	0.0	90	420287	25.8	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973C\20140207-29375.b\C36836.D

Injection Date: 07-Feb-2014 23:38:30

Instrument ID: HP5973C

Operator ID: RAL

Lims ID: LCS

Lab Sample ID: LCS 480-165080/4-A

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

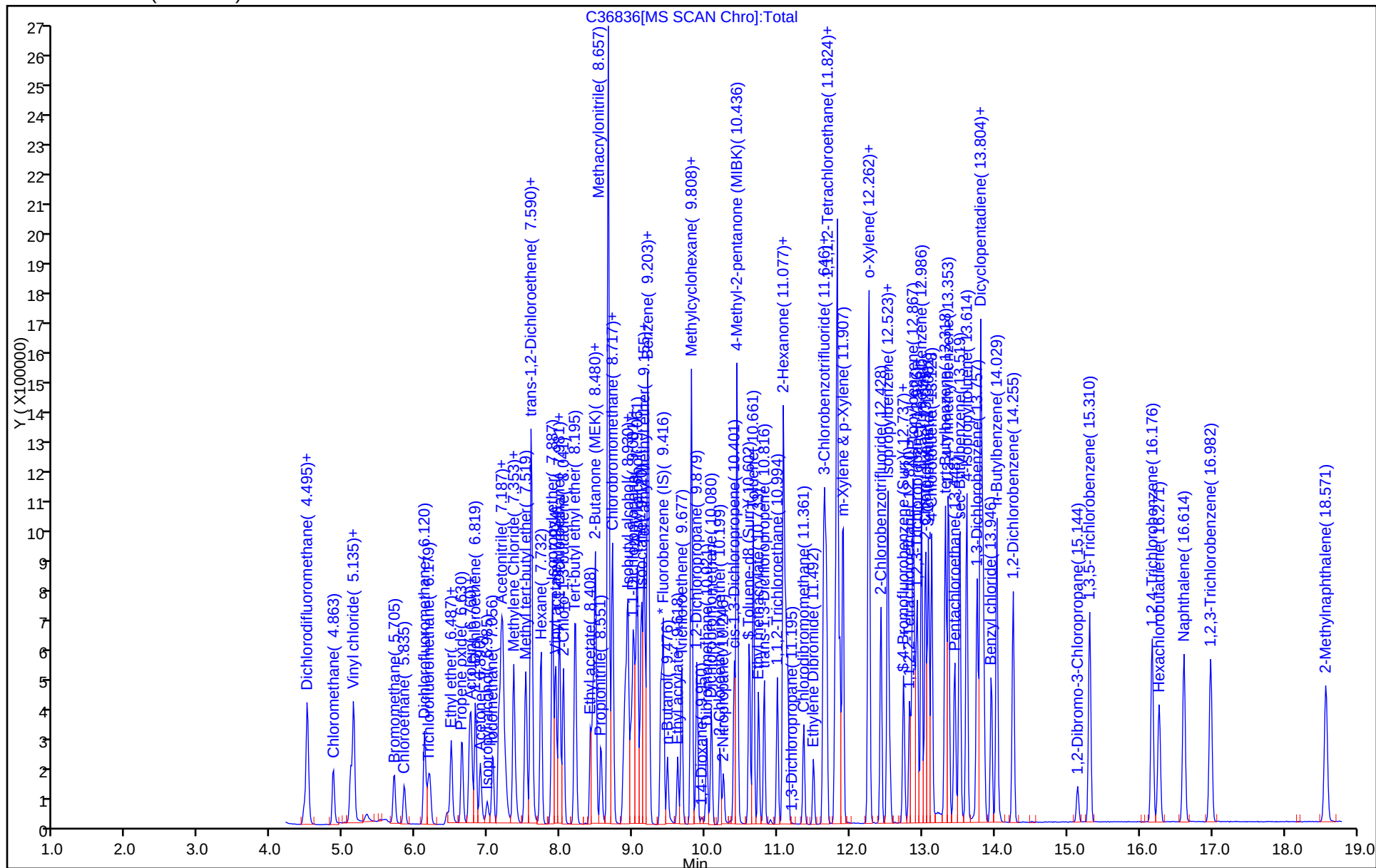
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Instrument ID: HP5973C Start Date: 02/01/2014 00:58Analysis Batch Number: 164151 End Date: 02/01/2014 06:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-164151/3		02/01/2014 00:58	1	C36630.D	ZB-624 (30) 0.53 (mm)
IC 480-164151/5		02/01/2014 01:53	1	C36632.D	ZB-624 (30) 0.53 (mm)
IC 480-164151/7		02/01/2014 02:18	1	C36633.D	ZB-624 (30) 0.53 (mm)
IC 480-164151/8		02/01/2014 02:43	1	C36634.D	ZB-624 (30) 0.53 (mm)
IC 480-164151/9		02/01/2014 03:09	1	C36635.D	ZB-624 (30) 0.53 (mm)
ICIS 480-164151/10		02/01/2014 03:34	1	C36636.D	ZB-624 (30) 0.53 (mm)
IC 480-164151/11		02/01/2014 03:59	1	C36637.D	ZB-624 (30) 0.53 (mm)
IC 480-164151/12		02/01/2014 04:24	1	C36638.D	ZB-624 (30) 0.53 (mm)
ICV 480-164151/25		02/01/2014 06:04	1		ZB-624 (30) 0.53 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-54309-1

SDG No.: _____

Instrument ID: HP5973C Start Date: 02/07/2014 10:21Analysis Batch Number: 164965 End Date: 02/07/2014 21:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-164965/1		02/07/2014 10:21	1	C36816.D	ZB-624 (30) 0.53 (mm)
CCVIS 480-164965/2		02/07/2014 10:51	1	C36817.D	ZB-624 (30) 0.53 (mm)
CCV 480-164965/3		02/07/2014 11:28	1		ZB-624 (30) 0.53 (mm)
LCS 480-164965/4		02/07/2014 11:53	1	C36819.D	ZB-624 (30) 0.53 (mm)
MB 480-164965/6		02/07/2014 12:44	1	C36821.D	ZB-624 (30) 0.53 (mm)
ZZZZZ		02/07/2014 13:22	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/07/2014 13:47	1		ZB-624 (30) 0.53 (mm)
480-54309-1	Well 1-1A INF	02/07/2014 14:12	2	C36824.D	ZB-624 (30) 0.53 (mm)
480-54309-3	Trip Blank	02/07/2014 19:27	1	C36826.D	ZB-624 (30) 0.53 (mm)
ZZZZZ		02/07/2014 19:52	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/07/2014 20:17	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/07/2014 20:42	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/07/2014 21:08	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/07/2014 21:32	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/07/2014 21:57	1		ZB-624 (30) 0.53 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-54309-1

SDG No.: _____

Instrument ID: HP5973CStart Date: 02/07/2014 22:20Analysis Batch Number: 165079End Date: 02/08/2014 09:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-165079/1		02/07/2014 22:20	1	C36833.D	ZB-624 (30) 0.53 (mm)
CCVIS 480-165079/2		02/07/2014 22:48	1	C36834.D	ZB-624 (30) 0.53 (mm)
CCV 480-165079/3		02/07/2014 23:13	1		ZB-624 (30) 0.53 (mm)
LCS 480-165079/4		02/07/2014 23:38	1	C36836.D	ZB-624 (30) 0.53 (mm)
MB 480-165079/6		02/08/2014 00:28	1	C36838.D	ZB-624 (30) 0.53 (mm)
480-54309-2	Well 1-1A EFF	02/08/2014 01:20	1	C36839.D	ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 01:46	8		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 02:11	2		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 02:36	2		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 03:01	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 03:26	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 03:51	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 04:16	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 04:41	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 05:06	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 05:31	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 05:56	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 06:21	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 06:46	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 07:11	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 07:36	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 08:01	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 08:26	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 08:52	1		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 09:17	2		ZB-624 (30) 0.53 (mm)
ZZZZZ		02/08/2014 09:43	2		ZB-624 (30) 0.53 (mm)

GC/MS VOA Worksheet

Batch Number: 480-164965

Method: 8260C

Analyst: Larson, Renee A

Date Open: Feb 07 2014 10:21AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00029	3_MCP_Add_WF00020
BFB~480-164965/1		8260C			1 uL	1 uL	HP5973C		
CCVIS~480-164965/2		8260C			5 mL	5 mL	HP5973C		
CCV~480-164965/3		8260C			5 mL	5 mL	HP5973C	12.5 uL	12.5 uL
LCS~480-164965/4		8260C			5 mL	5 mL	HP5973C		
MB~480-164965/6		8260C			5 mL	5 mL	HP5973C		
480-54059-I-2	CELL 19 SEEP	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54062-I-1	GMW-1R	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54309-A-1	Well 1-1A INF	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54309-A-3	Trip Blank	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54313-A-17	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-C-1	FIELD BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-C-2	MW-01DX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-A-3	MW-02DX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-C-4	MW-02SX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-A-5	MW-03SX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		

GC/MS VOA Worksheet

Batch Number: 480-164965

Method: 8260C

Analyst: Larson, Renee A

Date Open: Feb 07 2014 10:21AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	3MTP_WRK_00032	8260 CORP mix_00004	ADD CORP mix_00004	BFB_WRK_00032	C_8260_IS_00031	C_8260_Surr_000
BFB~480-164965/1		8260C					1 uL		
CCVIS~480-164965/ 2		8260C			12.5 uL			1 uL	1 uL
CCV~480-164965/3		8260C		12.5 uL		12.5 uL		1 uL	1 uL
LCS~480-164965/4		8260C			12.5 uL	12.5 uL		1 uL	1 uL
MB~480-164965/6		8260C						1 uL	1 uL
480-54059-I-2	CELL 19 SEEP	8260C	T					1 uL	1 uL
480-54062-I-1	GMW-1R	8260C	T					1 uL	1 uL
480-54309-A-1	Well 1-1A INF	8260C	T					1 uL	1 uL
480-54309-A-3	Trip Blank	8260C	T					1 uL	1 uL
480-54313-A-17	TRIP BLANK	8260C	T					1 uL	1 uL
480-54315-C-1	FIELD BLANK	8260C	T					1 uL	1 uL
480-54315-C-2	MW-01DX-1401-XX	8260C	T					1 uL	1 uL
480-54315-A-3	MW-02DX-1401-XX	8260C	T					1 uL	1 uL
480-54315-C-4	MW-02SX-1401-XX	8260C	T					1 uL	1 uL
480-54315-A-5	MW-03SX-1401-XX	8260C	T					1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-164965

Method: 8260C

Analyst: Larson, Renee A

Date Open: Feb 07 2014 10:21AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Epichloro WRK_00002	GAS CORP mix_00010
BFB~480-164965/1		8260C			
CCVIS~480-164965/ 2		8260C			12.5 uL
CCV~480-164965/3		8260C		12.5 uL	
LCS~480-164965/4		8260C			12.5 uL
MB~480-164965/6		8260C			
480-54059-I-2	CELL 19 SEEP	8260C	T		
480-54062-I-1	GMW-1R	8260C	T		
480-54309-A-1	Well 1-1A INF	8260C	T		
480-54309-A-3	Trip Blank	8260C	T		
480-54313-A-17	TRIP BLANK	8260C	T		
480-54315-C-1	FIELD BLANK	8260C	T		
480-54315-C-2	MW-01DX-1401-XX	8260C	T		
480-54315-A-3	MW-02DX-1401-XX	8260C	T		
480-54315-C-4	MW-02SX-1401-XX	8260C	T		
480-54315-A-5	MW-03SX-1401-XX	8260C	T		

GC/MS VOA Worksheet

Batch Number: 480-165079

Method: 8260C

Analyst: Hill, Leah C

Date Open: Feb 07 2014 10:20PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00029	3_MCP_Add_WF 00020
BFB~480-165079/1		8260C			1 uL	1 uL	HP5973C		
CCVIS~480-165079/2		8260C			5 mL	5 mL	HP5973C		
CCV~480-165079/3		8260C			5 mL	5 mL	HP5973C	12.5 uL	12.5 uL
LCS~480-165079/4		8260C			5 mL	5 mL	HP5973C		
MB~480-165079/6		8260C			5 mL	5 mL	HP5973C		
480-54309-B-2	Well 1-1A EFF	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-A-6	MW-06DX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-C-7	MW-06SX-1401-XD	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-S-8	MW-06SX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-S-9	MW-08DX-1401-XD	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-S-10	MW-08DX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-A-11	MW-08SX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-A-12	MW-09SX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-A-13	MW-14SX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-A-14	MW-15DX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-A-15	MW-15SR-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-C-16	MW-16SX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-A-17	MW-17XX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-A-18	MW-18XX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-A-19	MW-19XX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-A-20	MW-23XX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-A-21	MW-26DX-1401-XX	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54183-D-1	OF001	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54183-A-2	01TB	8260C	T	<2 SU	5 mL	5 mL	HP5973C		
480-54315-B-8~MS	MW-06SX-1401-XX MS	8260C	T	<2 SU	5 mL	5 mL	HP5973C		

GC/MS VOA Worksheet

Batch Number: 480-165079

Method: 8260C

Analyst: Hill, Leah C

Date Open: Feb 07 2014 10:20PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	3MTP_WRK_00032	8260 CORP mix_00004	ADD CORP mix_00004	BFB_WRK_00032	C_8260_IS_00031	C_8260_Surr_000
BFB~480-165079/1		8260C					1 uL		
CCVIS~480-165079/2		8260C			12.5 uL			1 uL	1 uL
CCV~480-165079/3		8260C		12.5 uL		12.5 uL		1 uL	1 uL
LCS~480-165079/4		8260C			12.5 uL	12.5 uL		1 uL	1 uL
MB~480-165079/6		8260C						1 uL	1 uL
480-54309-B-2	Well 1-1A EFF	8260C	T					1 uL	1 uL
480-54315-A-6	MW-06DX-1401-XX	8260C	T					1 uL	1 uL
480-54315-C-7	MW-06SX-1401-XD	8260C	T					1 uL	1 uL
480-54315-S-8	MW-06SX-1401-XX	8260C	T					1 uL	1 uL
480-54315-S-9	MW-08DX-1401-XD	8260C	T					1 uL	1 uL
480-54315-S-10	MW-08DX-1401-XX	8260C	T					1 uL	1 uL
480-54315-A-11	MW-08SX-1401-XX	8260C	T					1 uL	1 uL
480-54315-A-12	MW-09SX-1401-XX	8260C	T					1 uL	1 uL
480-54315-A-13	MW-14SX-1401-XX	8260C	T					1 uL	1 uL
480-54315-A-14	MW-15DX-1401-XX	8260C	T					1 uL	1 uL
480-54315-A-15	MW-15SR-1401-XX	8260C	T					1 uL	1 uL
480-54315-C-16	MW-16SX-1401-XX	8260C	T					1 uL	1 uL
480-54315-A-17	MW-17XX-1401-XX	8260C	T					1 uL	1 uL
480-54315-A-18	MW-18XX-1401-XX	8260C	T					1 uL	1 uL
480-54315-A-19	MW-19XX-1401-XX	8260C	T					1 uL	1 uL
480-54315-A-20	MW-23XX-1401-XX	8260C	T					1 uL	1 uL
480-54315-A-21	MW-26DX-1401-XX	8260C	T					1 uL	1 uL
480-54183-D-1	OF001	8260C	T					1 uL	1 uL
480-54183-A-2	01TB	8260C	T					1 uL	1 uL
480-54315-B-8~MS	MW-06SX-1401-XX MS	8260C	T		12.5 uL	12.5 uL		1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-165079

Method: 8260C

Analyst: Hill, Leah C

Date Open: Feb 07 2014 10:20PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Epichloro WRK_00002	GAS CORP mix_00010
BFB~480-165079/1		8260C			
CCVIS~480-165079/2		8260C			12.5 uL
CCV~480-165079/3		8260C		12.5 uL	
LCS~480-165079/4		8260C			12.5 uL
MB~480-165079/6		8260C			
480-54309-B-2	Well 1-1A EFF	8260C	T		
480-54315-A-6	MW-06DX-1401-XX	8260C	T		
480-54315-C-7	MW-06SX-1401-XD	8260C	T		
480-54315-S-8	MW-06SX-1401-XX	8260C	T		
480-54315-S-9	MW-08DX-1401-XD	8260C	T		
480-54315-S-10	MW-08DX-1401-XX	8260C	T		
480-54315-A-11	MW-08SX-1401-XX	8260C	T		
480-54315-A-12	MW-09SX-1401-XX	8260C	T		
480-54315-A-13	MW-14SX-1401-XX	8260C	T		
480-54315-A-14	MW-15DX-1401-XX	8260C	T		
480-54315-A-15	MW-15SR-1401-XX	8260C	T		
480-54315-C-16	MW-16SX-1401-XX	8260C	T		
480-54315-A-17	MW-17XX-1401-XX	8260C	T		
480-54315-A-18	MW-18XX-1401-XX	8260C	T		
480-54315-A-19	MW-19XX-1401-XX	8260C	T		
480-54315-A-20	MW-23XX-1401-XX	8260C	T		
480-54315-A-21	MW-26DX-1401-XX	8260C	T		
480-54183-D-1	OF001	8260C	T		
480-54183-A-2	01TB	8260C	T		
480-54315-B-8~MS	MW-06SX-1401-XX MS	8260C	T		12.5 uL

GC/MS VOA Worksheet

Batch Number: 480-165079

Method: 8260C

Analyst: Hill, Leah C

Date Open: Feb 07 2014 10:20PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00029	3_MCP_Add_WF 00020
480-54315-B-8~MS D	MW-06SX-1401-XX MSD	8260C	T	<2 SU	5 mL	5 mL	HP5973C		

GC/MS VOA Worksheet

Batch Number: 480-165079

Method: 8260C

Analyst: Hill, Leah C

Date Open: Feb 07 2014 10:20PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	3MTP_WRK_00032	8260 CORP mix_00004	ADD CORP mix_00004	BFB_WRK_00032	C_8260_IS_00031	C_8260_Surr_000
480-54315-B-8~MS D	MW-06SX-1401-XX MSD	8260C	T		12.5 uL	12.5 uL		1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-165079

Method: 8260C

Analyst: Hill, Leah C

Date Open: Feb 07 2014 10:20PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Epichloro WRK_00002	GAS CORP mix_00010
480-54315-B-8~MS D	MW-06SX-1401-XX MSD	8260C	T		12.5 uL

Shipping and Receiving Documents

Chain of Custody Record

Client Information Client Contact: Jeremy Wyckoff Phone: 518-250-7340 E-Mail: judy.stone@testamericainc.com		Lab PM: Stone, Judy L Carrier Tracking No(s): 480-41539-10180.1		COC No: 480-41539-10180.1 Page: Page 1 of 1 Job #:	
Analysis Requested					
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #: PROJECT 00266401.0000 Project #: 48006762 SSOW#		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 Other: M - Hexane N - None O - AsMAO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)			
Sample Identification Well 1-1A INF Well 1-1A EFF T-10 Blank		Sample Date 1/24/14 1/24/14 1/24/14	Sample Time 16:30 16:55 -	Sample Type (C=Comp, G=grab) G G -	Matrix (Water, Solid, Sewage, etc.) Water Water Water
Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 826B - (MOD) TCL list OLM04.2 + Stars		Total Number of Containers 3 3 2			
Special Instructions/Note: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months		Special Instructions/QC Requirements:			
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by: Relinquished by: <i>Jeremy Wyckoff</i> Date: 2/5/14 1500 Company:			
Relinquished by: Relinquished by: <i>Jeremy Wyckoff</i> Date: 2/5/14 1500 Company:		Relinquished by: Relinquished by: <i>Jeremy Wyckoff</i> Date: 2/5/14 1500 Company:			
Custody Seal No. ☐ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks: #3 4.3			

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-54309-1

Login Number: 54309

List Source: TestAmerica Buffalo

List Number: 1

Creator: Stau, Brandon M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	arcadis
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



Appendix C

Site Photographs



Air stripper tower access door with retaining screen and glass (photograph from 10/16/2006)



Air stripper tower access door with retaining screen and glass removed (3/21/2014). Calcium carbonate precipitate had to be chipped away to view encrusted packing material in stripper tower.